PROJECT WITH: N/A Ð S 6  $\dot{\mathbf{\omega}}$ -00-74 ORDER OF SHEETS Section No. Title Section No. 2 Typical Sections and Details Section No. Estimate of Quantities 3 Section No. Miscellaneous Quantities Section No. Right of Way Plat Section No. Plan and Profile 5 Section No. Standard Detail Drawings Section No. Sign Plates Section No. Structure Plans Section No. Computer Earthwork Data

9

Cross Sections

TOTAL SHEETS =

Section No.

NOVEMBER 2022

44

DESIGN DESIGNATION

A.A.D.T.	2023	=	175
A.A.D.T.	2043	=	260
D.H.V.		=	23.4
D.D.		=	60/40
Т.		=	10% (ASSUMED)
DESIGN SPEED		=	30 M.P.H.
ESALS		=	80,300



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

# STATE OF WISCONSIN

LOC STR



FILE NAME : S:\PROJECTS\W11648 WISDOT - MARSHALL ROAD BRIDGE P-56-0916 SAUK CO\SHEETSPLAN\01 TITLE SHEET.DW

PROFILE

GRADE LINE

SPECIAL DITCH

UTILITIES

FIBER OPTIC

STORM SEWER

TELEPHONE

POWER POLE

WATER

FLECTRIC

GAS

ス

MAD

#### **GENERAL NOTES**

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLAN 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.

EXCAVATION BELOW SUBGRADE (EBS) IS NOT USED TO BALANCE YARDAGE, AND IS NOT SHOWN ON THE CROSS SECTIONS BUT IS MEASURED AND PAID FOR AS COMMON EXCAVATION. EXACT LOCATIONS OF EBS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

UNLESS SHOWN OTHERWISE, DISTURBED AREAS SHOWN WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS ARE TO BE FERTILIZED (TYPE B), SEEDED (USE NO. 70), AND MULCHED (WEED FREE) AS DIRECTED BY THE ENGINEER. ALL POST CONSTRUCTION WET AREAS SHALL BE SEEDED WITH SEEDING MIXTURE NO. 60. DO NOT FERTILIZE WETLAND AREAS.

WHEN THE QUANTITY OF THE ITEM OF BASE AGGREGATE DENSE OR ASPHALTIC SURFACE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE, AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF MATERIAL AS DIRECTED BY THE ENGINEER IN THE FIELD.

SILT FENCE AND TURBIDITY BARRIERS SHALL BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER IN THE FIELD. SILT FENCE AND TURBIDITY BARRIERS SHALL BE PLACED PRIOR TO CONSTRUCTION AND SHALL BE IN PLACE PRIOR TO STRUCTURE REMOVAL.

REMOVAL OF ASPHALTIC SURFACES WHERE AN ABUTTING ASPHALTIC SURFACE IS TO REMAIN IN PLACE SHALL REQUIRE A SAWCUT MEETING THE APPROVAL OF THE ENGINEER IN THE FIELD.

THE LOCATION OF ALL PERMANENT SIGNING SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD PRIOR TO PLACEMENT.

WETLANDS ARE PRESENT IN THE PROJECT LIMITS. THE CONTRACTOR SHALL NOT OPERATE EQUIPMENT OR STOCKPILE MATERIALS BEYOND THE EXISTING STREAMBANK FROM STA. 10+00 LT. - STA. 10+50 LT., STA. 10+67 LT. - STA. 11+50 LT., STA. 10+00 RT. - STA. 10+80 RT., AND STA. 10+99 RT. - STA. 11+50 RT.

ADJUST DITCH GRADING AS NECESSARY TO FIT FIELD CONDITIONS AND AS DIRECTED BY THE ENGINEER IN THE FIELD.

ASPHALTIC SURFACE QUANTITIES WERE CALCULATED USING 112 LB/SY/IN.

CURVE DATA IS BASED ON THE ARC DEFINITIONS.

2

4-INCHES OF ASPHALTIC SURFACE IS RECOMMENDED BE CONSTRUCTED WITH A 2 1/4-INCH LOWER LAYER AND 1<sup>3</sup>/<sub>4</sub>-INCH UPPER LAYER.

20	NT	'AC	TS

TOWN OF IRONTON: JERRY WHITE, TOWN OF IRONTON CHAIRPERSON S3175 WHITE ROAD REEDSBURG, WI 53959 PHONE: (608) 434-1995 EMAIL: krdairy@live.com

#### WISCONSIN DEPT. OF TRANSPORTATION

WISDOT PROJECT MANAGER 2101 WRIGHT ST. MADISON, WI 53704 ATTN: ZACHARY PEARSON, P.E. PHONE: (608) 246-5319 EMAIL: zachary.pearson@dot.wi.gov

ELECTRIC ALLIANT ENERGY ATTN: MIKE LONG E4445 COMMERCE AVE. HILLPOINT, WI 53913 PHONE: (608) 356-0608 EMAIL: michaellong@alliantenergy.com

DESIGN CONSULT	TANT:
JEWELL ASSOCIATES E	NGINEERS, INC.
560 SUNRISE DRIVE	
SPRING GREEN, WI 53	588
ATTN: ROBERT HANOI	LD, P.E.
PHONE: (608) 588-748	34
CELL: (608) 606-3568	
EMAIL: robert.hanold	@jewellassoc.co

#### **DNR LIAISON:**

DNR SOUTH WEST REGION HEADQUARTERS 3911 FISH HATCHERY ROAD FITCHBURG, WI 53711 ATTN: ANDY BARTA PHONE: (608) 235-2955 EMAIL: andrew.barta@wisconsin.gov

# UTILITIES

TELEPHONE LA VALLE TELEPHONE COOPERATIVE ATTN: JOSH LIEN S1421 STH 33

P.O. BOX 28

LA VALLE, WI 53941

PHONE: (608) 985-7201

EMAIL: joshl@rgtc.coop

BUT	Abutment	INV	Invert	RDWY	Roadway
с	Acre	IP	Iron Pipe or Pin	SALV	Salvaged
GG	Aggregate	IRS	Iron Rod Set	SAN S	Sanitary Sewer
H	Ahead	JT	Joint	SEC	Section
	Angle	JCT	Junction	SHLDR	Shoulder
SPH	Asphaltic	LHF	Left-Hand Forward	SHR	Shrinkage
VG	Average	L	Length of Curve	SW	Sidewalk
DT	Average Daily Traffic	LIN FT or LF	Linear Foot	S	South
AD	Base Aggregate Dense	LC	Long Chord of Curve	so	Square
ĸ	Back	MH	Manhole	SE or SO FT	Square Feet
F	Back Face	MB	Mailbox	SY or SO YD	Square Yard
M	Bench Mark	ML or M/I	Match Line	STO	Standard
R	Bridge	N	North	STD	Standard Detail Drawings
or C/I	Center Line	Y	North Grid Coordinate	STH	State Trunk Highways
C C C	Center to Center	0 4 1	Overall Length	STA	Station
тн	County Trunk Highway	00	Outside Diameter	SS	Storm Sewer
R	Creek	DIF	Permanent Limited Easement	SG	Subgrade
D	Crushed	DT	Point	SE	Superelevation
	Cubic Vard		Point Point of Curvature	SL or S/I	Survey Line
	Culvert Pine	PI	Point of Intersection	SV/	Sentic Vent
8.6	Curb and Gutter	PRC	Point of Reverse Curvature	T	Tangent
αu		DT	Point of Tangangy		Talaphana
	Degree of Curve		Point Or Taligency	TEMD	Temporany
	Diamotor	POC	Point on Tangent		Temporary
IA	Fact	PUT			Temporary Limited Ecomor
	Edst East Grid Coordinate	PVC	Polyvillyl Chionde	+	Temporary Limited Easemen
50	East Grid Coordinate		Portialla Cement Concrete		Tour
	Electric (di)	LB	Pound Devende Der Savere Inch		Transition
	Elevation	P51	Pounds Per Square Inch		Transit Line
DALS	Equivalent Single Axie Loads	PE	Private Entrance		Trucks (nersent of)
35	Excavation Below Subgrade	ĸ	Radius		Trucks (percent of)
-	Existing Sign to Remain	кк	Railroad	TYP	Typical
-	Face to Face	K D	Range	UNCL	Unclassified
-	Field Entrance	RL OF K/L	Reference Line	UG	Underground Cable
_	Fill Sinish ad Canada	RP	Reference Point	USH	United States Highway
J 	Finished Grade	RCCP	Reinforced Concrete Culvert	VAR	Variable
OF F/L	Flow Line	25012	Pipe	V	velocity or Design Speed
	FOOT	REQ'D	Required	VERI	Vertical
IG	Footing	RES	Residence or Residential	VC	Vertical Curve
N	Grid North	RW	Retaining Wall	VOL	Volume
1	Height	KT	Right	WM	Water Main
WT	Hundredweight	RHF	Right-Hand Forward	WV	Water Valve
YD	Hydrant	R/W	Right-of-Way	W	West
íL	Inlet	R	River	WB	Westbound
)	Inside Diameter	RD	Road	YD	Yard

Image: Constraint of the section of the secting date as a section of the secting date as a section of t							HYDROLOGIC	SOIL	GROUP				
SLOPE RANGE (PERCENT)			A	4		I	3		(	2		0	)
LAND USE     0-2     2-6     6 & OVER     0-2     2-6     3-0     3-0     3-0     3-0     3-0     3-0     3-0     3-0     3-0     3-0     3-0     3-0     3-0     3-0     3-0     3-0     3-0     3-0<		• •	SLOPE (PERC	RANGE CENT)		SLOPE (PER	RANGE CENT)		SLOPE (PERC	RANGE CENT)		SLOPE (PERC	RANGE CENT)
ROW CROPS       .08       .16       .22       .12       .20       .27       .15       .24       .33       .19       .28       .41       .38         MEDIAN STRIP       .19       .20       .24       .19       .22       .26       .20       .24       .33       .50       .34       .28       .41       .38         MEDIAN STRIP       .19       .20       .24       .19       .22       .26       .20       .23       .300       .20       .25       .30         SIDE SLOPE TURF       .2       .25       .28       .26       .30       .30       .27       .32       .40         SIDE SLOPE TURF       .2       .25       .28       .27       .34       .28       .36       .27       .32       .40         ASPHALT       .25       .32       .2       .26       .30       .36       .26       .30       .36       .36       .38       .30       .38         PAVEMENT       .25       .32       .7095       .56       .56       .56       .56       .56       .56       .56       .56       .56       .56       .56       .56       .56       .56       .56       .56       <	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 & OVEF
MEDIAN STRIP       .19       .20       .24       .19       .22       .26       .20       .23       .30       .20       .25       .30         TURF       .24       .26       .30       .25       .28       .33       .26       .30       .37       .27       .32       .40         SIDE SLOPE TURF         .25       .32       .28       .27       .34       .26       .30       .37       .27       .32       .40         SIDE SLOPE TURF         .25       .32       .28       .27       .34       .28       .30       .36       .27       .32       .30       .38         PAVEMENT        .7095	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
SIDE SLOPE TURF     .25 .32     .27 .34     .28 .36     .30 .38       PAVEMENT     .36     .30 .38       ASPHALT     .7095       CONCRETE     .8095       BRICK     .7080       DRIVES, WALKS     .7585       ROOFS     .7595       GRAVEL ROADS, SHOULDERS     .4060       TOTAL PROJECT AREA= 0.27 ACRES	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
PAVEMENT         .7095           CONCRETE         .8095           BRICK         .7080           DRIVES, WALKS         .7585           ROOFS         .7595           GRAVEL ROADS, SHOULDERS         .4060           TOTAL PROJECT AREA= 0.27 ACRES         .2727	SIDE SLOPE TURF			.25 .32			.27 .34			.28 .36			.30 .38
ASPHALT       .7095         CONCRETE       .8095         BRICK       .7080         DRIVES, WALKS       .7585         ROOFS       .7595         GRAVEL ROADS, SHOULDERS       .4060         TOTAL PROJECT AREA= 0.27 ACRES	PAVEMENT												
CONCRETE         .8095           BRICK         .7080           DRIVES, WALKS         .7585           ROOFS         .7595           GRAVEL ROADS, SHOULDERS         .4060           TOTAL PROJECT AREA= 0.27 ACRES         .27	ASPHALT						.709	95					
BRICK         .7080           DRIVES, WALKS         .7585           ROOFS         .7595           GRAVEL ROADS, SHOULDERS         .4060           TOTAL PROJECT AREA= 0.27 ACRES         .27	CONCRETE						.809	95					
DRIVES, WALKS         .7585           ROOFS         .7595           GRAVEL ROADS, SHOULDERS         .4060           TOTAL PROJECT AREA= 0.27 ACRES         .27	BRICK						.708	30					
KUUPS         .7595           GRAVEL ROADS, SHOULDERS         .4060           TOTAL PROJECT AREA= 0.27 ACRES         .60	DRIVES, WALKS						./58	5					
TOTAL PROJECT AREA= 0.27 ACRES	GRAVEL ROADS SI	ноши	FRS				./59	50					
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.20 ACRES	TOTAL PROJECT AI	REA= C CTED 1	0.27 AC	RES DISTURBED B	Y CONS	STRUC	TION ACTIVIT	ies = 0	.20 ACF	RES			



**\*UTILITY NOT PART OF DIGGERS HOTLINE** 

PROJECT NO: 5978-00-74

FILF NAME : S:\PROJECTS\W11648 WISDOT - MARSHALL ROAD BRIDGE P-56-0916 SAUK CO\SHEETSPLAN\59780004 GEN NOTES,DWG

COUNTY: SAUK

PLOT DATE : 7/28/2022 4:56:49 PM PLOT BY : HANOLD, ROBERT

# LIST OF STANDARD ABBREVIATIONS

1" = 1

PLOT SCALE :

LAYOUT : LAYOUT1

Ε





PLOT DATE PLOT TIME 5/18/2022 11:24:43 AM





#### **Estimate Of Quantities**

Item         Item Description         Unit         Total         Opy           0002         2010105         Glarding         57.4         2000         2000           0001         2010105         Finite Manual						5978-00-74	
0002211.010ClamingTA2.0002.0000008205.002Butuberger Waterway Renow Debris (intradure) 11.95-0.914EACH0.0001.0000010026.1001Excarsition for Shuckare Bridges (structure) 01.9-56-0244EACH0.0001.0000110206.1001BorrawCY40.0001.0000111026.1001BorrawCY40.0001.0000112206.100BorrawCY40.0001.0000116213.010BorrawCY40.0001.0000116213.010Base Aggregate Downs 31-4-nchTON1.00.001.0000116213.010Base Aggregate Downs 31-4-nchTON1.00.001.0000126Base Aggregate Downs 31-4-nchTON1.00.001.0000136S02.010Base Aggregate Downs 31-4-nchTON1.00.001.0000146Base Aggregate Downs 31-4-nchTON1.00.001.0000156Base Aggregate Downs 31-4-nchTON1.00.001.0000167S02.010CaracteriaGAL8.0001.0000168Base Aggregate Downs 31-4-nchTON1.00.001.0000168StantofacSate Asiantocoment HS DeclaredFA1.00.001.0000168Sate Asiantocoment HS DeclaredLF2.00.002.00000168Sate Asiantocoment HS Declared StructuresLF2.00.002.00000168Sate Asiantocoment HS Declared StructuresST3.0	Line	Item	Item Description	Unit	Total	Qty	
0004201.020GundeningSTA2.0002.0000008203.010Excavalion CommonCY14.00014.0000010205.010Excavalion CommonCY14.00014.0000110205.010Excavalion CommonCY4.0004.0000111201.010Bandell Sprachen Type ACY4.0004.0000112201.010Bandell Sprachen Type ACY4.0004.0000113District Type ACY4.00014.0000114District Type ACY15.00015.0000115Base Aggregate Densis 14-InducitTON14.00014.0000126District Type ACY17.000175.000012745.0410Carceree Pavement Apprache StatuSY15.00045.0000128Sogarito Concree Maxement Apprache StatuSY11.00014.0000128SOgarito Concree Maxement Apprache StatuSY11.00014.0000129SOS.000Concree Maxement Apprache StatuSY11.00014.0000129SOS.000Concree Maxement Apprache StatuSY11.00014.0000129SOS.000Bar States Reinforement HS Colated StructuresLB2.370.0002.307.0000129SOS.000Bar States Reinforement HS Colated StructuresLB2.300.002.300.000131.001Rating Type AEX14.00014.0000140GoS.000Bar States Reinforement HS Colated StructuresLF	0002	201.0105	Clearing	STA	2.000	2.000	
Bits         Bits <td>0004</td> <td>201.0205</td> <td>Grubbing</td> <td>STA</td> <td>2.000</td> <td>2.000</td> <td></td>	0004	201.0205	Grubbing	STA	2.000	2.000	
U008         205 0100         Exavailatin Common         CY         14.000           0101         205 0100         Exavailatin Common         EXAVAILATIN Structure Type A         CV         4.000           0112         205 0100         Barkfill Structure Type A         CV         4.000           0116         213 0100         Finishing Readway (project) 01.572-07-4         EACH         1.000           0103         305 0110         Bark Algergabe Drens 314-Inch         TON         14.000         1.000           0104         215 0100         Bark Algergabe Drens 314-Inch         TON         215.000         216.000           0105         Applicatic Surface         CV         173.000         13.000           0104         455.006         Tack Coat         CV         173.000         13.000           0105         Applicatic Surface         CV         173.000         13.000           0106         Structures Missany Singles         CV         173.000         13.000           0106         Structures Missany Singles         CV         173.000         13.000           0108         Structures Missany Singles         CV         173.000         13.000           0108         Structures Missany Singles         Structures Mi	0006	203.0250	Removing Structure Over Waterway Remove Debris (structure) 01. P-56-0916	EACH	1.000	1.000	
0010         205:101         Exacution for Structures Bridges (structure') 07. B-58-0244         EACH         1.000         1.000           0014         210:1500         BurkMill Structure Type A         TON         420.000         280.000           0016         210:1500         BurkMill Structure Type A         TON         420.000         40.000           0016         205:0110         Base Aggregate Dense 34-nch         TON         41.000         14.000           0022         415:0410         Concrete Pavement Approach Stab         SY         150.000         150.000           0026         465:0165         Asphalic Surface Testment         GN         38.00         38.000           0026         465:0105         Concrete Pavement Approach Stab         SY         173.000         21.000           0026         62:02:000         Concrete Pavement Approach Statures         LB         23.670.000         24.000           0026         455:0600         Bart Stature Reinforcement HS Cotated Structures         LB         23.670.000         24.670.000           0026         62:0:000         Bart Stature Reinforcement HS Cotated Structures         LB         24.670.000         24.670.000           0037         Stature Stature Reinforcement HS Cotated Structures         LF	8000	205.0100	Excavation Common	CY	140.000	140.000	
0112         238.0100         Box/MI Stuckur/ Type A         CY         4.0.00         4.0.00           0161         213.0100         Finishing Raakway (groepi 01.572-00-74         EACH         1.0.00           0163         0161.010         Base Aggrogate Denses 314-41.01         TON         215.000           0221         03.65.012         Base Aggrogate Denses 314-41.01         TON         215.000           0224         415.0401         Concrete Parament Aggroup and Base         QCH         150.000           0234         455.0615         Taal Coatf         Concrete Parament Aggroup and Base         QCH         173.000           0202         415.0401         Concrete Parament Aggroup and Base         LB         4.320.000         4.320.000           0203         805.0400         Protact-tox States Intentines         LB         4.320.000         4.320.000           0304         500.010         Base Mainforcommet HS Stuctures         LB         4.320.000         4.300.00           0305         910.000         Base Mainforcommet HS Stuctures         LB         4.320.000         4.000.00           0304         500.010         Base Mainforcommet HS Stuctures         LB         4.000.00         4.000.00           0404         500.010         Basel	0010	206.1001	Excavation for Structures Bridges (structure) 01. B-56-0244	EACH	1.000	1.000	
0114         210.1500         Bask/li Structure Type A         TON         2290.000         200.000           016         215.0100         Finahing Rodway (project) 01.5678-00-74         EACH         1.000         1.000           020         305.0110         Base Aggregate Denses 141-Inch         TON         215.000         1.000           022         415.0410         Concrete Payment Approach Biab         SY         150.000         1.000           024         455.0050         Tack Cont         GAL         8.000         8.000           025         502.0100         Concrete Payment Approach Biab         SY         173.000         2.100.000           026         602.000         Bar Steel Reinforcement HS Stuctures         LB         4.202.000         2.877.000           026         St3.000         Bar Steel Reinforcement HS Cated Structures         LB         2.470.000         2.877.000           026         St3.000         Bar Steel Reinforcement HS Cated Structures         LB         2.400.00         2.800.00           027         St3.000         Bar Steel Reinforcement HS Cated Structures         LB         2.470.000         2.000.00           028         St3.000         Bar Steel Reinforcement HS Cated Structures         LB         2.000	0012	208.0100	Borrow	CY	40.000	40.000	
0016         213.0100         Finkhing Raadway (royce) 01.6078-0074         EACH         1.000         1.000           0020         305.0120         Base Aggregate Danes 31.1A-Inch         TON         215.000         155.000           0021         455.065         Tack Cast         GAL         8.000         155.000           0024         455.065         Tack Cast         GAL         8.000         38.000           0026         465.0165         Apahaliti Surface         Cast         73.000         73.000           0026         502.0100         Concrete Masony Pridese         LB         23.670.000         43.200.00           0036         513.000         Bar Steel Reinforcement HS Structures         LB         23.670.000         23.670.000           0036         513.000         Ruber Anderborement HS Scructures         LF         41.000         14.000           0040         650.0100         Ring Tubular Type M         LF         23.670.000         23.670.000           0041         612.0406         Reput Underdrain Wrapped Sinch         LF         20.000         20.000           0044         612.0400         Ring Tubular Type M         LF         20.000         23.670.000           0045         612.0100 <td< td=""><td>0014</td><td>210.1500</td><td>Backfill Structure Type A</td><td>TON</td><td>290.000</td><td>290.000</td><td></td></td<>	0014	210.1500	Backfill Structure Type A	TON	290.000	290.000	
0118336.3110Base Aggroupe Dures 3/4-InchTON14.00014.000022305.012Base Aggroupe Dures 3/4-InchTON215.000024455.065Tack CoarSY150.0008.000025455.015Apphalte SurfaceTON38.0008.0000268502.015Concretive Deavoment Approach SlateTON38.0008.000027057.000173.000173.000028502.0100Concretive Measonry BridgesCY173.000023505.0000Bar Steel Reinforcement HS StructuresLB4.32.070.000034513.040Railing Turing Turing MeasonryLF4.1000035516.050Rubberized Membrane WaterproofingSY4.0000404516.000Rubberized Membrane WaterproofingLF4.0001.0000414612.001Piung Stear Measone And Repair of Haul Roads (project) 01.5978-00-74EACH1.0001.000044616.010Maintenance And Repair of Haul Roads (project) 01.5978-00-74EACH1.0001.000045624.010Maintenance And Repair of Haul Roads (project) 01.5978-00-74EACH1.0001.000046616.010Maintenance And Repair of Haul Roads (project) 01.5978-00-74EACH1.0001.000046616.010MaintenanceLF500.000580.000047616.010MaintenanceLF500.000580.000048616.010MaintenanceLF500.000580.0	0016	213.0100	Finishing Roadway (project) 01. 5978-00-74	EACH	1.000	1.000	
0020385.0120Base Aggrogate Dense 1 1/4-InchTON215.000715.0000224455.0650Tack CoatGAL8.00055.0000264455.0650Tack CoatGAL8.00038.0000262455.0100Concriste Masonry BridgesCV173.000315.0000278552.0100Concriste Masonry BridgesCY2170.000210.0000305552.0300Bart Steat Flairforcament HS StructuresLB2.357.00023.070.0000305553.0400Bart Steat Heinforcament HS Coated StructuresLB2.357.00023.070.0000305513.0607Rubergare Matherane WaterproofingSY14.000141.0000406550.1100Piling Steet HP 10-Inch X 42 LbCY225.000225.0000407610.000Rubergare Ind Hawged G-InchLF200.000200.0000408618.1000Maintraane Ahra Ropati of Haul Rods (grojget) 01.5978-00-74EACH1.0001.0000408618.1000Maintraane Ahra Ropati of Haul Rods (grojget) 01.5978-00-74EACH1.0001.0000408618.1000Maintraane Ahra Ropati of Haul Rods (grojget) 01.5978-00-74EACH1.0001.0000416618.1000Maintraane Ahra Ropati of Haul Rods (grojget) 01.5978-00-74EACH1.0001.0000426627.010Maintraane Ahra Ropati of Haul Rods (grojget) 01.5978-00-74EACH1.0001.0000436618.1000Maintraane Ahra Ropati of Haul Rods (grojget) 01.5978-00-74EAC	0018	305.0110	Base Aggregate Dense 3/4-Inch	TON	14.000	14.000	
0022 002445.0410 0.00Concrete Pavement Approach SlabSY150.000150.0000026 0026Tack CoartCAL8.0008.0000028502.010Concrete Masonry BridgesCY17.3.0000030502.3200Protective Surface TreatmentSY2710.0000231505.000Bar Steel Reinforcement HS StructuresLB4.32.0000346614.0140 Type MLB4.32.0004.320.0000351516.000Bar Steel Reinforcement HS Cateld StructuresLB4.32.0000368516.0010Rainforme WaterproofingLF14.1000374516.000Rainforme WaterproofingLF4.0000404501.0010Piling Steel Filth P1-0 Inch, X4.2 LbLF4.0000404616.0100Maintenance And Repair of Haul Roads (project) 01.5776-06-74EACH1.0000405624.0100WaterKG3.0003.0000406620.0100Maintenance And Repair of Haul Roads (project) 01.5776-06-74EACH1.0001.0000505624.0100Maintenance And Repair of Haul Roads (project) 01.5776-06-74EACH1.0001.0000516625.0500Salvaged TopsallSY3.0003.000052625.0500Salvaged TopsallSY3.0003.000056624.0100MaintenanceCY3.0003.000056624.0100MaintenanceCY3.0003.000056624.0100Maintenance	0020	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	215.000	215.000	
0024455.006Tack CatGal.6.0000028450.010Asphaltic SurfaceTON3.0000028502.010Concrete Masonry BridgesCY173.0000030502.020Protactive Surface TreatmentSY210.0000031505.040Bar Steel Reinforcement HS StructuresLB4.320.0004.320.0000038513.061Baing Tublar Type MLF141.000141.0000038516.050Ruberized Membrane WateproofingSY14.000400.0000041516.050Ruberized Membrane WateproofingLF400.000400.0000042606.030Rupra HeavyCY225.000225.0000044612.000Pible Inderini Wrapped BrichLF400.000400.0000045618.010Maintenance And Repair of Haul Roads (project) 01.5978-00-74EACH1.0001.0000056624.010WaterMGAL4.0004.0004.0000056624.010WaterMGAL4.0004.0000056624.010MulchingSY390.000390.0000056624.010Mulchings Erosin ControlEACH1.0001.0000056624.010Mobilizations Ernergency Erosin ControlEACH3.000390.0000056624.010Mobilizations Erosin ControlEACH1.0001.0000056624.010Mobilizations Erosin ControlEACH3.0003.0000057630.010Seeding Mu	0022	415.0410	Concrete Pavement Approach Slab	SY	150.000	150.000	
0028465.010Asphaltic SurfaceTON33.00033.0000038502.300Portactive Surface TreatmentSY210.000210.0000034605.000Bar Steel Reinforcement HS StructuresLB4.30.0004.32.0000035513.408Railing Tubuia Type MLF141.0000036516.000Ruberized Mentorane VitarproofingSY14.0000046550.100Piling Steel HP 10-Inch X 42 LbLF400.0000047650.500Ripe HeavyCY22.5000048511.001Milingsbeel HP 10-Inch X 42 LbLF400.0000044618.000Ripe HeavyCY22.5000044618.000MolitizationLF200.0000046618.000MolitizationEACH1.0000046618.100MolitizationSY390.000390.0000056624.00VaterMGAL4.0004.0000056628.150Sit FenceLF580.000380.0000056628.150Molitizations Enrois ControlEACH3.000380.0000056628.150Molitizations Enrois ControlEACH2.0002.0000056628.150Molitizations Enrois ControlEACH3.0003.0000056628.150Molitizations Enrois ControlEACH3.0003.0000056628.150Molitizations Enrois ControlEACH3.0003.0000056628.150Molitizations Enrois Cont	0024	455.0605	Tack Coat	GAL	8.000	8.000	
0028         502.0100         Concrete Masony Bridges         CY         173.000         173.000           003         505.0400         Bar Steel Reinforcement HS Structures         LB         2.307.000         2.307.000           0034         505.0400         Bar Steel Reinforcement HS Structures         LB         2.307.000         2.367.000           0035         513.0401         Railing Tubular Type M         LF         141.000         141.000           0040         500.100         Pileng Steel HP 10-Inch X 42 Lb         LF         400.000         400.000           0041         513.0401         Rigrap Heavy         CY         225.000         200.000           0042         606.0300         Rigrap Heavy         CY         225.000         200.000           0044         612.0400         Maintenance And Repair of Haul Roads (project) 01.5978-00-74         EACH         1.000         1.000           0056         624.0100         Maintenance And Repair of Haul Roads (project) 01.5978-00-74         EACH         1.000         1.000           0056         624.0100         Maintenance And Repair of Haul Roads (project) 01.5978-00-74         EACH         1.000         1.000           0056         624.0100         Maintenance And Repair of Haul Roads (project) 01.5978-00-73	0026	465.0105	Asphaltic Surface	TON	38.000	38.000	
0030502.300Protective Surface TreatmentSY210.000210.0000034505.000Bar Steel Reinforcement HS StructuresLB4.320.00023.670.0000036613.611Raling Tubular Type MLF141.0000038516.050Rubbertzed Membrane WaterproofingSY141.0000040550.110Pling Steel HP 10.hch X 42 LbLF400.0000041650.110Pling Steel HP 10.hch X 42 LbLF200.0000044616.100Ruizap HeavyCY225.000200.0000044617.010Mathemace And Repair of Hau Roads (project) 01.5978-00-74EACH1.0001.0000048618.100MobilizationEACH1.0001.0000044619.100MobilizationSY390.000390.0000056623.150Sill FenceLF280.000390.0000056623.150Sill FenceLF280.000300.0000056623.150Sill Fence MaintenanceLF280.000300.0000056623.150Sill FenceSY375.000375.0000056623.150Sill FenceSIL3.00030.0000056623.150Sill FenceSIL3.0003.0000056623.150Sill FenceSIL3.0003.0000056623.150Sill FenceSIL3.0003.0000056623.150Sill FenceSIL3.0003.0000057630.010	0028	502.0100	Concrete Masonry Bridges	CY	173.000	173.000	
0032         505.0400         Bar Steel Reinforcement HS Scutultures         LB         4,320.000           0036         53.4061         Railing Tubuiar Type M         LF         23,670.000         32,670.000           0038         513.0061         Railing Tubuiar Type M         LF         23,670.000         141.000           0038         516.0500         Rubbertzed Membrane Waterproofing         LF         400.000         140.000           0044         650.0300         Riprap Heavy         CY         250.000         225.000           0044         612.046         Pije Underdrain Wrapped Finch         LF         200.000         200.000           0056         624.0100         Waintenance And Repair of Haul Roads (project) 01.5978-00-74         EACH         1.000         1.000           0056         624.0100         Water         EACH         1.000         1.000           0056         624.0100         Water         EACH         1.000         390.000           0056         624.150         Mulching         SY         390.000         390.000           0056         628.150         Sill Fence         LF         800.00         390.000           0056         628.150         Sill Fence         LF         80	0030	502.3200	Protective Surface Treatment	SY	210.000	210.000	
0034         505.0600         Bar Steel Reinforcement HS Coated Structures         LF         414.000           0038         516.0500         Rubberized Membrane Waterproofing         SY         14.000           0040         550.1100         Piling Steel HP 10-Inch X4 2L b         LF         400.00           0041         661.000         Riyape Heavy         CY         025.000           0044         612.0406         Pipe Underdrain Wrapped 6-Inch         LF         1.000         1.000           0044         616.100         Mathenace And Repair of Haul Roads (project) 01.5978-00-74         EACH         1.000         1.000           0046         618.100         Mathenace And Repair of Haul Roads (project) 01.5978-00-74         EACH         1.000         1.000           0056         628.100         Mathing         SY         390.000         390.000           0056         628.150         Salaraged Topsoil         SY         390.000         390.000           0056         628.150         Sill Fance Mathenance         LF         580.00         580.000           0056         628.150         Sill Fance Mathenance         LF         5.000         5.000           0056         628.150         Sill Fance Mathenance         CMT         3	0032	505.0400	Bar Steel Reinforcement HS Structures	LB	4,320.000	4,320.000	
513.4061         Ralling Tubular Type M         LF         141.000           3551.600         Rubberized Memtrane Waterproofing         SY         14.000         400.000           0040         550.1100         Piling Steel HP 10-inch X 42 Lb         LF         400.000         400.000           0041         616.0300         Riprap Heavy         CY         225.000         225.000           0044         612.040         Pile Underdrain Wapped 5-Inch         LF         200.000         1.000           0046         618.0100         Maintenance And Repair of Haul Roads (project) 01.5978-00-74         EACH         1.000         1.000           0056         624.0100         Water         MGAL         4.000         4.000           0056         624.0100         Water         SY         390.000         390.000           0056         628.150         Silt Fence         LF         280.000         280.000           0056         628.150         Silt Fence         LF         560.000         560.000           0056         628.150         Silt Fence         LF         560.000         560.000           0056         628.150         Silt Fence         LF         80.000         300.00           0066	0034	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	23,670.000	23,670.000	
516.0500         Rubberized Membrane Waterprofing         SY         14.000         14.000           0040         560.100         Piling Steel HP 10-Inch X4 2 Lb         LF         400.000         0000           0041         660.000         Pipe Underdrain Wrapped 6-Inch         LF         200.000         225.000           0044         612.0406         Pipe Underdrain Wrapped 6-Inch         LF         200.000         10.00           0045         619.100         Mobilization         EACH         1.000         1.000           0046         618.010         Mulchanca And Regarin of Haul Roads (project) 01.5978-00-74         EACH         1.000         1.000           0045         627.0200         Mobilization         KGAL         4.000         4.000           0056         628.1010         Water         KGAL         4.000         360.000           0056         628.1520         Silt Fence Maintenance         LF         20.00         280.000           0068         628.1520         Silt Fence Maintenance         LF         20.00         2.000           0068         628.010         Mobilizations Ensing Control         EACH         3.000         3.000           0068         629.0210         Fertilizer Type B	0036	513.4061	Railing Tubular Type M	LF	141.000	141.000	
0040         550.1100         Pliing Steel HP 10-Inch X 42 Lb         LF         400.000           0042         606.0300         Riprap Heavy         CY         225.000         2205.000           0044         612.040P         Pipe Undertrain Wrapped 6-Inch         LF         200.000         10.00           0046         618.0100         Maintenance And Repair of Haul Roads (project) 01.5978-00-74         EACH         1.000         1.000           0052         625.0500         Salvaged Topscil         SY         390.000         390.000           0052         625.0500         Salvaged Topscil         SY         390.000         390.000           0055         628.1564         Silf Fence         LF         580.000         300.000           0065         628.1564         Silf Fence Maintenance         LF         580.000         30.000           0066         628.1910         Mobilizations Energency Erosion Control         EACH         3.000         3.000           0066         620.015         Turbidity Barriers         SY         375.000         375.00           0066         630.0200         Seeding Mixture No.70         LB         3.000         3.000           0072         630.0200         Seeding Mixture No.70	0038	516.0500	Rubberized Membrane Waterproofing	SY	14.000	14.000	
0042         606.0300         Riprap Heavy         CY         225.000           0044         612.0406         Pipe Underdrain Wrappe 6-Inch         LF         200.000           0044         619.100         Maintenance And Repair of Haul Roads (project) 01.5978-00-74         EACH         1.000         1.000           0048         619.1000         Mobilization         EACH         1.000         1.000           0050         624.0100         Water         McAL         4.000         4.000           0054         627.000         Mulcining         SY         390.000         390.000           0056         628.1504         Silt Fence         LF         280.000         280.000           0056         628.1504         Silt Fence Antinenance         LF         550.000         560.000           0056         628.1504         Multizations Erosion Control         EACH         2.000         2.000           0066         629.0210         Fertilizer Type B         CWT         1.000         1.000           0076         630.0160         Seeding Mixture No.70         LB         3.000         3.000           0077         630.0500         Seeding Mixture No.77         LB         8.000         8.000	0040	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	400.000	400.000	
0044         612.0406         Pipe Underdrain Wrapped G-Inch         LF         200.000           0046         618.0100         Maintenance And Repair of Haul Roads (project) 01.5978-00-74         EACH         1.000         1.000           0050         624.0100         Waiter         MGAL         4.000         4.000           0052         625.000         Salvaged Topsoil         SY         390.000         390.000           0054         627.0200         Mulching         SY         390.000         390.000           0056         628.1504         Silf Fence Maintenance         LF         280.000         280.000           0056         628.1505         Silf Fence Maintenance         LF         2.000         2.000           0066         628.1005         Mubilizations Erreignery Erosion Control         EACH         3.000         3.000           0066         628.005         Turbidity Barriers         SY         375.000         375.000           0066         630.010         Seeding Mixture No.60         LB         3.000         3.000           0076         630.010         Seeding Mixture No.70         LB         8.000         3.000           0076         630.0300         Seeding Mixture No.70         LB	0042	606.0300	Riprap Heavy	CY	225.000	225.000	
0046         618.0100         Maintenance And Repair of Haul Roads (project) 01. 5978-00-74         EACH         1.000           0048         619.1000         Mobilization         EACH         1.000         1.000           0050         623.0100         Water         MCAL         4.000         4.000           0054         627.0200         Salvaged Topsoil         SY         390.000         390.000           0056         628.1502         Silt Fence         LF         260.000         260.000           0056         628.1502         Silt Fence Saintenance         LF         560.000         300.000           0066         628.1504         Silt Fence Saintenance         LF         2000         3.000           0066         628.1505         Mobilizations Enorgency Erosion Control         EACH         3.000         3.000           0066         628.005         Turbidity Barriers         SY         375.000         375.000           0066         Sol.0107         Seeding Mixture No. 60         LB         3.000         3.000           0074         630.0300         Seeding Temporary         LB         3.000         3.000           0074         633.5100         Markers ROW         EACH         4.000         <	0044	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	200.000	200.000	
0048         619.1000         Mobilization         EACH         1.000           0050         622.0100         Water         MGAL         4.000         4.000           0052         625.0500         Salvaged Topoil         SY         390.000         390.000           0054         627.0200         Muching         SY         390.000         390.000           0056         628.1504         Silt Fence         LF         280.000         280.000           0066         628.1505         Mobilizations Erosion Control         EACH         3.000         560.000           0066         628.1905         Mobilizations Erosion Control         EACH         3.000         3.000           0066         628.005         Turbidity Barriers         SY         375.000         2.000           0066         630.010         Seeding Mixture No. 60         LB         3.000         3.000           0072         630.0200         Seeding Borrow Pit         LB         8.000         8.000           0074         630.0300         Seeding Borrow Pit         EACH         4.000         4.000           0075         633.5100         Markers ROW         EACH         4.000         4.000           0076	0046	618.0100	Maintenance And Repair of Haul Roads (project) 01. 5978-00-74	EACH	1.000	1.000	
0650         624 0100         Water         MGAL         4.000         4.000           0052         625.0500         Salvaged Topsoil         SY         390.000         390.000           0054         627.0200         Mulching         SY         390.000         390.000           0056         628.1504         Silt Fence Maintenance         LF         280.000         280.000           0056         628.1905         Mobilizations Erosion Control         EACH         3.000         3.000           0062         628.1901         Mobilizations Erosion Control         EACH         3.000         3.000           0064         628.051         Turtidity Barriers         SY         375.000         375.000           0066         630.010         Seeding Mixture No.60         LB         3.000         3.000           0074         630.0300         Seeding Brown Pit         LB         1.000         1.000           0075         630.0300         Seeding Brown Pit         LB         1.000         1.000           0076         633.0500         Signs Type II Reflective F         SF         12.000         12.000           0086         638.2001         Removing Signs Type II         EACH         3.000 <td< td=""><td>0048</td><td>619.1000</td><td>Mobilization</td><td>EACH</td><td>1.000</td><td>1.000</td><td></td></td<>	0048	619.1000	Mobilization	EACH	1.000	1.000	
0052         625 0500         Salvaged Topsoil         SY         390.000         390.000           0054         627.0200         Mulching         SY         390.000         390.000           0056         628.1504         Silt Fence         LF         280.000         280.000           0058         628.1520         Silt Fence Maintenance         LF         560.000         560.000           0060         628.1905         Mobilizations Errosion Control         EACH         3.000         3.000           0062         628.1905         Turbidity Barriers         SY         375.000         375.000           0066         629.0210         Fertilizer Type B         CWT         1.000         1.000           0070         630.0170         Seeding Mixture No. 60         LB         3.000         3.000           0071         630.0200         Seeding Mixture No. 70         LB         1.000         1.000           0074         630.0200         Seeding Mixture No. 70         LB         1.000         1.000           0074         630.0200         Seeding Borrow Pit         LB         1.000         1.000           0076         630.0500         Seeding Borrow Pit         EACH         4.000         4.000	0050	624.0100	Water	MGAL	4.000	4.000	
0054         627.020         Mulching         SY         390.000         390.000           0056         628.1504         Sitt Fence         LF         280.000         280.000           0056         628.1505         Mobilizations Erosion Control         EACH         3.000         3.000           0060         628.1915         Mobilizations Erreigency Erosion Control         EACH         2.000         2.000           0064         628.6005         Turbidity Barriers         SY         375.000         3.000           0066         629.0210         Fertilizer Type B         CWT         1.000         1.000           0066         630.0160         Seeding Mikture No. 60         LB         3.000         3.000           0072         630.0170         Seeding Mikture No. 70         LB         8.000         8.000           0074         630.0300         Seeding Mikture No.70         LB         1.000         1.000           0076         630.0500         Seed Natkers ROW         KGH         1.000         1.000           0076         630.0500         Seed Natkers ROW         SF         12.000         1.000           0080         634.0612         Posts Wood 4x6-Inch X 12-FT         EACH         4.000	0052	625.0500	Salvaged Topsoil	SY	390.000	390.000	
0056         628.1504         Silt Fence         LF         280.000         280.000           0058         628.1520         Silt Fence Maintenance         LF         560.000         560.000           0060         628.1950         Mobilizations Emergency Erosion Control         EACH         3.000         3.000           0064         628.6005         Turbidity Barriers         SY         375.000         375.000           0066         629.010         Ferditizer Type B         CWT         1.000         1.000           0066         630.0160         Seeding Mixture No.60         LB         3.000         3.000           0074         630.0200         Seeding Temporary         LB         8.000         8.000           0074         630.050         Seeding Server Pit         LB         1.000         1.000           0076         633.0500         Seeding Berrow Pit         LB         1.000         1.000           0076         630.0500         Seed Water         MGAL         11.000         1.000           0076         633.0510         Markers ROW         EACH         4.000         4.000           0080         634.2622         Removing Signs Type II         EACH         3.000         3.000	0054	627.0200	Mulching	SY	390.000	390.000	
0058       628.1520       Silt Fence Maintenance       LF       560.000         0060       628.1950       Mobilizations Encision Control       EACH       3.000       3.000         0064       628.6005       Turbidity Barriers       SY       375.000       375.000         0066       629.0210       Fertilizer Type B       CWT       1.000       1.000         0066       630.0160       Seeding Mixture No. 60       LB       3.000       3.000         0070       630.0170       Seeding Mixture No. 70       LB       8.000       8.000         0074       630.0300       Seeding Mixture No. 70       LB       1.000       1.000         0076       630.0500       Seeding Borrow Pit       LB       1.000       1.000         0076       630.0500       Seeding Mixture No. 12-FT       EACH       4.000       4.000         0078       633.200       Markers ROW       EACH       4.000       4.000         0084       638.2002       Removing Signs Type II       EACH       3.000       3.000         0086       638.3000       Removing Signs Type II       EACH       3.000       3.000         0086       638.3001       Field Office Type B       EACH       3.	0056	628.1504	Silt Fence	LF	280.000	280.000	
0060         628.1905         Mobilizations Errosion Control         EACH         3.000         3.000           0064         628.1905         Mubilizations Errosion Control         EACH         2.000         2.000           0066         628.0505         Turbidity Barriers         SY         375.000         375.000           0066         630.0160         Seeding Mixture No. 60         LB         3.000         3.000           0072         630.0200         Seeding Temporary         LB         8.000         8.000           0074         630.0500         Seeding Borrow Pit         LB         1.000         1.000           0076         630.0500         Seed Vater         MGAL         11.000         11.000           0076         630.500         Seed Vater         MGAL         11.000         11.000           0076         633.5100         Markers ROW         EACH         4.000         4.000           0082         637.2230         Signs Type II Reflective F         SF         12.000         12.000           0084         638.2602         Removing Small Sign Supports         EACH         3.000         3.000           0086         643.0705         Traffic Control Barricades Type III         DAY <td< td=""><td>0058</td><td>628.1520</td><td>Silt Fence Maintenance</td><td>LF</td><td>560.000</td><td>560.000</td><td></td></td<>	0058	628.1520	Silt Fence Maintenance	LF	560.000	560.000	
0062         628.1910         Mobilizations Emergency Erosion Control         EACH         2.000         2.000           0064         628.6005         Turbidity Barriers         SY         375.000         375.000           0066         629.0210         Fertilizer Type B         CWT         1.000         1.000           0068         630.0160         Seeding Mixture No. 60         LB         3.000         3.000           0072         630.0200         Seeding Bernoprary         LB         8.000         8.000           0074         630.0500         Seeding Mixture No.70         LB         1.000         1.000           0076         630.0500         Seeding Borrow Pit         LB         1.000         1.000           0076         633.5100         Markers ROW         EACH         4.000         4.000           0082         637.2230         Signs Type II Reflective F         SP         12.000         3.000           0084         638.2602         Removing Small Sign Supports         EACH         3.000         3.000           0086         638.3000         Removing Small Sign Supports         EACH         3.000         3.000           0086         643.0420         Traffic Control Barricades Type III         D	0060	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000	
0064         628.6005         Turbidity Barriers         SY         375.000         375.000           0066         629.0210         Fertilizer Type B         CWT         1.000         1.000           0076         630.0160         Seeding Mixture No. 60         LB         3.000         3.000           0072         630.0200         Seeding Mixture No. 70         LB         2.000         2.000           0074         630.0300         Seeding Borrow Pit         LB         1.000         1.000           0076         630.0500         Seeding Borrow Pit         LB         1.000         1.000           0076         630.0500         Seed Mater         MGAL         11.000         11.000           0078         633.5100         Markers ROW         EACH         4.000         4.000           0080         634.0612         Posts Wood 4x6-Inch X 12-FT         EACH         4.000         4.000           0082         637.2230         Signs Type II Reflective F         SF         12.000         12.000           0084         638.3602         Removing Small Sign Supports         EACH         3.000         3.000           0088         642.5001         Field Office Type B         DAY         1,170.000	0062	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000	
0066         629.0210         Fertilizer Type B         CWT         1.000         1.000           0068         630.0160         Seeding Mixture No. 60         LB         3.000         3.000           0070         630.0170         Seeding Temporary         LB         2.000         2.000           0074         630.0300         Seeding Temporary         LB         8.000         8.000           0076         630.0500         Seed Water         MGAL         11.000         11.000           0076         630.5100         Markers ROW         EACH         4.000         4.000           0080         634.0612         Posts Wood 4x6-Inch X 12-FT         EACH         4.000         4.000           0084         638.2602         Removing Signs Type II         EACH         3.000         3.000           0088         642.5001         Field Office Type B         EACH         3.000         3.000           0080         643.0420         Traffic Control Barricades Type III         DAY         1,170.000         1,170.000           0081         642.5001         Field Office Type B         EACH         1.000         1.820.000           0092         643.0420         Traffic Control Barricades Type III         DAY	0064	628.6005	Turbidity Barriers	SY	375.000	375.000	
0068         630.0160         Seeding Mixture No. 60         LB         3.000         3.000           0070         630.0170         Seeding Mixture No. 70         LB         2.000         2.000           0072         630.0200         Seeding Temporary         LB         8.000         8.000           0074         630.0300         Seeding Borrow Pit         LB         1.000         1.000           0076         630.0500         Seed Water         MGAL         11.000         11.000           0078         633.5100         Markers ROW         EACH         4.000         4.000           0080         634.0612         Posts Wood 4x6-Inch X 12-FT         EACH         4.000         4.000           0082         637.2230         Signs Type II Reflective F         SF         12.000         12.000           0084         638.2602         Removing Signs Type II         EACH         3.000         3.000           0086         638.3000         Removing Signs Supports         EACH         1.000         1.000           0088         642.5001         Field Office Type B         EACH         1.000         1.000           0090         643.0420         Traffic Control Barricades Type III         DAY         1,170.0	0066	629.0210	Fertilizer Type B	CWT	1.000	1.000	
0070         630.0170         Seeding Mixture No. 70         LB         2.000           0072         630.0200         Seeding Temporary         LB         8.000           0074         630.0300         Seeding Borrow Pit         LB         1.000           0076         630.0500         Seed Water         MGAL         11.000         11.000           0076         630.5100         Markers ROW         EACH         4.000         4.000           0080         634.0612         Posts Wood 4x6-Inch X 12-FT         EACH         4.000         4.000           0082         637.2230         Signs Type II Reflective F         SF         12.000         12.000           0084         638.2602         Removing Small Sign Supports         EACH         3.000         3.000           0088         642.5001         Field Office Type B         EACH         1.000         1.000           0090         643.0420         Traffic Control Barricades Type III         DAY         1,170.000         1,170.000           0092         643.0705         Traffic Control Signs         DAY         1,820.000         1,820.000           0094         643.0900         Traffic Control Signs         DAY         910.000         910.000	0068	630.0160	Seeding Mixture No. 60	LB	3.000	3.000	
0072       630.0200       Seeding Temporary       LB       8.000       8.000         0074       630.0300       Seeding Borrow Pit       LB       1.000       1.000         0076       630.0500       Seed Water       MGAL       11.000       11.000         0078       633.5100       Markers ROW       EACH       4.000       4.000         0080       634.0612       Posts Wood 4x6-Inch X 12-FT       EACH       4.000       4.000         0082       637.2230       Signs Type II Reflective F       SF       12.000       12.000         0084       638.2602       Removing Signs Type II       EACH       3.000       3.000         0088       642.5001       Field Office Type B       EACH       1.000       1.000         0090       643.0420       Traffic Control Barricades Type III       DAY       1,170.000       1,170.000         0092       643.0420       Traffic Control Warning Lights Type A       DAY       1,820.000       1,820.000         0094       643.0900       Traffic Control Signs       DAY       910.000       910.000         0094       643.000       Traffic Control Signs       DAY       910.000       910.000         0094       643.000 <td< td=""><td>0070</td><td>630.0170</td><td>Seeding Mixture No. 70</td><td>LB</td><td>2.000</td><td>2.000</td><td></td></td<>	0070	630.0170	Seeding Mixture No. 70	LB	2.000	2.000	
0074       630.0300       Seeding Borrow Pit       LB       1.000       1.000         0076       630.0500       Seed Water       MGAL       11.000       11.000         0078       633.5100       Markers ROW       EACH       4.000       4.000         0080       634.0612       Posts Wood 4x6-Inch X 12-FT       EACH       4.000       4.000         0082       637.2230       Signs Type II Reflective F       SF       12.000       12.000         0084       638.2602       Removing Signs Type II       EACH       3.000       3.000         0086       638.3000       Removing Small Sign Supports       EACH       1.000       1.000         0088       642.5001       Field Office Type B       EACH       1.000       1.000         0090       643.0420       Traffic Control Barricades Type III       DAY       1,170.000       1,170.000         0091       643.0420       Traffic Control Warning Lights Type A       DAY       1,820.000       1,820.000         0092       643.0900       Traffic Control Signs       DAY       910.000       1,800.000         0094       643.0900       Traffic Control Signs       DAY       910.000       1.000         0094       643.0900	0072	630.0200	Seeding Temporary	LB	8.000	8.000	
0076         630.0500         Seed Water         MGAL         11.000         11.000           0078         633.5100         Markers ROW         EACH         4.000         4.000           0080         634.0612         Posts Wood 4x6-Inch X 12-FT         EACH         4.000         4.000           0082         637.2230         Signs Type II Reflective F         SF         12.000         12.000           0084         638.2602         Removing Signs Type II         EACH         3.000         3.000           0086         638.3000         Removing Small Sign Supports         EACH         3.000         3.000           0088         642.5001         Field Office Type B         EACH         1.000         1.000           0090         643.0420         Traffic Control Barricades Type III         DAY         1,170.000         1,170.000           0092         643.0705         Traffic Control Warning Lights Type A         DAY         1,820.000         1,820.000           0094         643.0900         Traffic Control Signs         DAY         910.000         910.000           0094         643.0900         Traffic Control Signs         DAY         910.000         910.000           0096         643.0000         Traffic Contr	0074	630.0300	Seeding Borrow Pit	LB	1.000	1.000	
0078       633.5100       Markers ROW       EACH       4.000       4.000         0080       634.0612       Posts Wood 4x6-Inch X 12-FT       EACH       4.000       4.000         0082       637.2230       Signs Type II Reflective F       SF       12.000       12.000         0084       638.2602       Removing Signs Type II       EACH       3.000       3.000         0086       638.3000       Removing Small Sign Supports       EACH       3.000       3.000         0086       642.5001       Field Office Type B       EACH       1.000       1.000         0090       643.0420       Traffic Control Barricades Type III       DAY       1,170.000       1,170.000         0092       643.0705       Traffic Control Warning Lights Type A       DAY       1,820.000       1,820.000         0094       643.0900       Traffic Control Signs       DAY       910.000       910.000         0096       643.5000       Traffic Control       SY       60.000       60.000	0076	630.0500	Seed Water	MGAL	11.000	11.000	
0080       634.0612       Posts Wood 4x6-Inch X 12-FT       EACH       4.000       4.000         0082       637.2230       Signs Type II Reflective F       SF       12.000       12.000         0084       638.2602       Removing Signs Type II       EACH       3.000       3.000         0086       638.3000       Removing Small Sign Supports       EACH       3.000       3.000         0086       642.5001       Field Office Type B       EACH       1.000       1.000         0090       643.0420       Traffic Control Barricades Type III       DAY       1,170.000       1,170.000         0092       643.0705       Traffic Control Warning Lights Type A       DAY       1,820.000       1,820.000         0094       643.0900       Traffic Control Signs       DAY       910.000       910.000         0096       643.5000       Traffic Control Signs       EACH       1.000       1.000         0096       643.5000       Traffic Control       SY       60.000       60.000	0078	633.5100	Markers ROW	EACH	4.000	4.000	
0082       637.2230       Signs Type II Reflective F       SF       12.000       12.000         0084       638.2602       Removing Signs Type II       EACH       3.000       3.000         0086       638.3000       Removing Small Sign Supports       EACH       3.000       3.000         0088       642.5001       Field Office Type B       EACH       1.000       1.000         0090       643.0420       Traffic Control Barricades Type III       DAY       1,170.000       1,170.000         0092       643.0705       Traffic Control Warning Lights Type A       DAY       1,820.000       1,820.000         0094       643.0900       Traffic Control Signs       DAY       1,000       1,000         0096       643.5000       Traffic Control Signs       DAY       910.000       910.000         0096       643.0111       Geotextile Type DF Schedule A       SY       60.000       60.000	0080	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000	
0084638.2602Removing Signs Type IIEACH3.0003.0000086638.3000Removing Small Sign SupportsEACH3.0003.0000088642.5001Field Office Type BEACH1.0001.0000090643.0420Traffic Control Barricades Type IIIDAY1,170.0001,170.0000092643.0705Traffic Control Warning Lights Type ADAY1,820.0001,820.0000094643.0900Traffic Control SignsDAY910.000910.0000096643.5000Traffic ControlEACH1.0001.0000098645.0111Geotextile Type DF Schedule ASY60.00060.000	0082	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
O086         638.3000         Removing Small Sign Supports         EACH         3.000         3.000           0088         642.5001         Field Office Type B         EACH         1.000         1.000           0090         643.0420         Traffic Control Barricades Type III         DAY         1,170.000         1,170.000           0092         643.0705         Traffic Control Warning Lights Type A         DAY         1,820.000         1,820.000           0094         643.0900         Traffic Control Signs         DAY         910.000         910.000           0096         643.5000         Traffic Control         EACH         1.000         1.000           0098         645.0111         Geotextile Type DF Schedule A         SY         60.000         60.000	0084	638.2602	Removing Signs Type II	EACH	3.000	3.000	
0088       642.5001       Field Office Type B       EACH       1.000       1.000         0090       643.0420       Traffic Control Barricades Type III       DAY       1,170.000       1,170.000         0092       643.0705       Traffic Control Warning Lights Type A       DAY       1,820.000       1,820.000         0094       643.0900       Traffic Control Signs       DAY       910.000       910.000         0096       643.5000       Traffic Control       EACH       1.000       1.000         0098       645.0111       Geotextile Type DF Schedule A       SY       60.000       60.000	0086	638.3000	Removing Small Sign Supports	EACH	3.000	3.000	
0090       643.0420       Traffic Control Barricades Type III       DAY       1,170.000       1,170.000         0092       643.0705       Traffic Control Warning Lights Type A       DAY       1,820.000       1,820.000         0094       643.0900       Traffic Control Signs       DAY       910.000       910.000         0096       643.5000       Traffic Control       EACH       1.000       1.000         0098       645.0111       Geotextile Type DF Schedule A       SY       60.000       60.000	0088	642.5001	Field Office Type B	EACH	1.000	1.000	
0092       643.0705       Traffic Control Warning Lights Type A       DAY       1,820.000       1,820.000         0094       643.0900       Traffic Control Signs       DAY       910.000       910.000         0096       643.5000       Traffic Control       EACH       1.000       1.000         0098       645.0111       Geotextile Type DF Schedule A       SY       60.000       60.000	0090	643.0420	Traffic Control Barricades Type III	DAY	1,170.000	1,170.000	
0094         643.0900         Traffic Control Signs         DAY         910.000         910.000           0096         643.5000         Traffic Control         EACH         1.000         1.000           0098         645.0111         Geotextile Type DF Schedule A         SY         60.000         60.000	0092	643.0705	Traffic Control Warning Lights Type A	DAY	1,820.000	1,820.000	
0096         643.5000         Traffic Control         EACH         1.000         1.000           0098         645.0111         Geotextile Type DF Schedule A         SY         60.000         60.000	0094	643.0900	Traffic Control Signs	DAY	910.000	910.000	
0098 645.0111 Geotextile Type DF Schedule A SY 60.000 60.000	0096	643.5000	Traffic Control	EACH	1.000	1.000	
	0098	645.0111	Geotextile Type DF Schedule A	SY	60.000	60.000	

# 08/31/2022 14:01:29 Page 1 3

			E	stimate Of Q	uantities	
					5978-00-74	
Line	Item	Item Description	Unit	Total	Qty	
0100	645.0120	Geotextile Type HR	SY	435.000	435.000	
0102	650.4500	Construction Staking Subgrade	LF	102.000	102.000	
0104	650.5000	Construction Staking Base	LF	102.000	102.000	
0106	650.6501	Construction Staking Structure Layout (structure) 01. B-56-0244	EACH	1.000	1.000	
0108	650.9911	Construction Staking Supplemental Control (project) 01. 5978-00-74	EACH	1.000	1.000	
0110	650.9920	Construction Staking Slope Stakes	LF	102.000	102.000	
0112	690.0150	Sawing Asphalt	LF	40.000	40.000	
0114	715.0502	Incentive Strength Concrete Structures	DOL	1,038.000	1,038.000	
0116	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	500.000	500.000	
0118	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. 10+70	EACH	1.000	1.000	

# 08/31/2022 14:01:29 Page 2 3



S:\PROJECTS\W11648 WISDOT - WARSHALL ROAD BRIDGE P-56-0916 SAUK CO\PSE\QUANTITIES\MISC QTYS\W11648\_MISC QTYSDWG

PLOT DATE : PLOT TIME : 8/26/2022 9:43:27 AM

PLOT BY : COLTON PEPER

PERMANENT	SIGNING

3	APPROX.         SIG           STATION         LOCATION         COE           10+23         MAINLINE, LT         W5-5           10+32         MAINLINE, LT         W5-5           10+46         MAINLINE, RT         W5-5           10+48         MAINLINE, RT         W5-5           10+99         MAINLINE, LT         W5-5           11+00         MAINLINE, LT         W5-5           11+16         MAINLINE, RT         W5-5	SN     SIGN       DE     SIGN DESCRIPTION     SIZE       52L     BRIDGE HASH MARKS     12X36       52L     BRIDGE HASH MARKS     12X36       52R     BRIDGE HASH MARKS     12X36       52L     BRIDGE HASH MARKS     12X36       52L     BRIDGE HASH MARKS     12X36	634.0612         637.2230         R           POSTS         R           WOOD 4X6-         SIGNS TYPE II           INCH X 12-FT         REFLECTIVE F           (EACH)         (SF)               1         3.00               1         3.00               1         3.00               1         3.00               1         3.00               1         3.00	638.2602         638.3000           EMOVING         REMOVING           SIGNS         SMALL SIGN           TYPE II         SUPPORTS           (EACH)         (EACH)           1         1           -         -           1         1           -         -           1         1           -         -           3         3	LOCATION PROJECT TOTALS =	TRAFFIC 643.0420 BARRICADES TYPE III (DAY) 1170 1170	C CONTROL TRAFFIC CONTROL 643.0705 WARNING LIGHTS TYPE A (DAY) 1820 1820	643.0900 SIGNS (DAY) 910 910	643.5000 TRAFFIC CONTROL (EACH) 1 1
	STATION -STATION 10+00 - 11+50 MAIN - PRO TOT *CATEGORY	CONSTRUCTION STAKING           *650.6501         STRUCTURE           ATION         650.4500         650.5000         LAYOUT           NUNE         102         102         -           NLINE         102         102         -           NALT         -         -         1	650.9911 SUPPLEMENTAL 650.992 CONTROL SLOPE (5978-00-74) STAKE3 (EACH) (LF) - 102 1 - 1 102	20 S S		SA <u>STATION</u> <u>10+00</u> 11+50	WING ASPHALT	Г 690.0150 (L.F.) 20 20 40	

PROJECT NO: 5978-00-74	HWY: MARSHALL ROAD	COUNTY: SAUK	MISCELLANEOUS QUANTITIES	5		
FILE NAME : S:\PROJECTS\W11648 WISDOT - MARSHALL   LAYOUT : QTYS.DWG	ROAD BRIDGE P-56-0916 SAUK CO\PSE\QUANTITIES\MISC QTY	5\W11648_MISC	PLOT DATE : PLOT TIME :	8/26/2022 9:48:20 AM	PLOT BY :	COLTON PEPER

LAYOUT : QTYS.DWG

ALL ITEMS 010 UNLESS OTHERWISE NOTED

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#### CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	POINT OF INTERSECTION	PI	
ACRES	AC	PROPERTY LINE	PL	
NHEAD	AH	RECORDED AS	(100')	
LUMINUM	ALUM	REEL / IMAGE	R/I	
AND OTHERS	ET AL	REFERENCE LINE	R/L	
ACK	BK	REMAINING	REM	
LOCK	BLK	RESTRICTIVE DEVELOPMENT	RDE	
ENTERLINE	C/L	EASEMENT		
ERTIFIED SURVEY MAP	CSM	RIGHT	RT	
ONCRETE	CONC	RIGHT OF WAY	R/W	
COUNTY	CO	SECTION	SEC	
OUNTY TRUNK HIGHWAY	CTH	SEPTIC VENT	SEPV	
DISTANCE	DIST	SQUARE FEET	SF	
ORNER	COR	STATE TRUNK HIGHWAY	STH	
OCUMENT NUMBER	DOC	STATION	STA	
ASEMENT	EASE	TELEPHONE PEDESTAL	TP	
XISTING	EX	TEMPORARY LIMITED	TLE	
GAS VALVE	GV	EASEMENT		
GRID NORTH	GN	TRANSPORTATION PROJECT	TPP	
IIGHWAY EASEMENT	HE	PLAT		
DENTIFICATION	ID	UNITED STATES HIGHWAY	USH	
AND CONTRACT	LC	VOLUME	V	
EFT	LT			
IONUMENT	MON			
IATIONAL GEODETIC SURVEY	NGS	CURVE DATA		CONVENTIONAL UTILITY SYMBOLS
IUMBER	NO		1	WATER
DUTLOT	OL	LONG CHORD BEARING	1	GASG
AGE	Р	RADIUS P	2	TELEPHONET
OINT OF TANGENCY	PT	DEGREE OF CURVE D		OVERHEAD TRANSMISSION LINES
ERMANENT LIMITED	PLE	CENTRAL ANGLE	DELTA	
EASEMENT		LENGTH OF CURVE L		
OINT OF BEGINNING	POB	TANGENT T		SANITARY SEWERSAN
OINT OF CURVATURE	PC	DIRECTION AHEAD DA		STORM SEWER
OINT OF COMPOUND CURVE	PCC	DIRECTION BACK DB		ELECTRIC TOWER
	CONVEN	TIONAL SYMBOLS		
			DANA	
ECTION LINE		SECTION (23)	(TO BE	SET)
QUARTER LINE		CORNER (26 25)	NON-M	ONUMENTED
NOTECNITIL LINE		STIVIBOL 3	R/W PC	DINT
IXTEENTH LINE	~	SECTION	COLINID	IRON DIN IP
NEW REFERENCE LINE	and a	CORNER 💮	(1-INCH	UNLESS NOTED)
NEW R/W LINE		MONUMENT		
XISTING R/W OR HE LINE		GEODETIC SURVEY MONUMEN	Т	
PROPERTY LINE	P.L.	SIXTEENTH CORNER MONUME	NT	۲
NOT ENTITIENTE			OFF-PRF	MISE
OT, TIE & OTHER MINOR LINES		SIGN P SIGN	SIGN	sign
LOPE INTERCEPT			COMPENSA	BLE NON-COMPENSABLE
ORPORATE LIMITS	,,,,,,,,,,	ELECTRIC POLE	4	L L
INDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)	(TYPE)	PEDESTAL (LABEL TYPE)	, second	ø 峃
NEW R/W (FEE OR HE)		(TV, TEL, ELEC, ETC.)		
EMPORARY LIMITED		ACCESS RESTRICTED BY ACQUIS	ITION THORITY)	
EASEMENT AREA	ENLOY VILLING	NO ACCESS (BI STATOTORI AG	nokiny	
ASEMENT AREA (PERMANENT LIMITED OR	<u>CEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE</u>	ACCESS RESTRICTED (BY PREVIO PROJECT OR CONTROL)	IUS	****
RESTRICTED DEVELOPMENT)		NO ACCESS (NEW HIGHWAY)		AAAAAAAAA
		PARCEL NUMBER 25	UTILITY	NUMBER 40
BRIDGE		PARALLEL OFFSETS -	<u> </u>	<u> </u>



NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), SAUK COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 🚀 X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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

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

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

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY. FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE TOWN OF IRONTON.

TLE NAME : S: \Projects\W11648 WisDOT — Marshall Road Bridge P-56-0916 Sauk Co\RW\W11648 Marshall Rd\_RW\_Title.dwg

WISDOT/CADDS SHEET 50

SW1/4-NW1/4 SEC. 8, T12N, R3E LISA M BUTTONOW DOC 880399 CARR VALLEY BRANCH SLOPE INTERCEPTS LA VALLE TELEPHONE COOP. INC. ALLIANT ENERGY - EXISTING STRUCTURE P-56-916 R/W R/W · - - - - 4 - - - - . W¼ CORNER SEC. 8 FD. BASE OF BROKEN 50000 HARRISON MONUMENT panag Y = 260277.741 X = 536244.517 NORTH LINE OF THE SW1/4 EXISTING C/L S89°46'23"E, 2711.42' MARSHALL ROAD MARSHALL ROAD N89° 57' 31"E FINISHED C/L MARSHALL ROAD PROPOSED <u>,ee e e e</u> STRUCTURE <del>ò.</del> Dol-The state of the second B-56-244 minne. All and a m BRANCH 1148.45 àcacacacacacac and <u> /encicicicicicica/</u> POR John Rive BEGIN RELOCATION ORDER STA. 10+00.00 15.91' SOUTH AND 1147.39' EAST OF THE NW<sup>1</sup>/4-SW<sup>1</sup>/4 W<sup>1</sup>/<sub>4</sub> CORNER OF SECTION 8, T.12N., R.3E., TOWN OF IRONTON, SAUK COUNTY, WI SEC. 8, T12N, R3E (1)Y=260,261.83 X=537,391.91 CURTIS H. HOLDERMAN DOC. 1136929 - WATERWAY AREA TOWN OF IRONTON 462 SQ. FT., (0.01 ACRES)

		SC	HEDULE OF LANDS & INTERE	ESTS REQUIR	ED										
					R/W		IIRED	CO	ORDINATE	TABLE - N	IEW R/W P	OINTS	RIGHT OF	WAY LINE TA	BLE
	DADCEL			INITEDEST	1,7,00			PT#	STATION	OFFSET	Y	Х	POINT TO POINT	BEARING	DISTA
l	NUMBER		OWNER (S)	REQUIRED	NEW	FXISTING		1	10+00.00	33.00 R	260228.831	537391.929	1 TO 2	N00° 02' 29"W	44.3
NOTE: EXISTING C/L OF MARSHALL ROAD	NOWIDER					EXISTING		2	10+00.00	11.37 L	260273.197	537391.897	2 TO 3	S89° 46' 23"E	150
BASED ON C/L OF EXISTING PAVEMENT	1	0	URTIS H. HOLDERMAN	FEE	0.04	0.15	0.19	3	11+50.00	10.66 L	260272.603	537541.898	3 TO 4	S00° 02' 29"E	43.
	NOTE: AREAS SHO				FROM THE T		THER	4	11+50.00	33.00 R	260228.939	537541.929	4 TO 5	S00° 02' 29"E	19.
EXISTING RIGHT-OF-WAY FOR MARSHALL	AVAILABLE SOURC	ES AND MAY NOT IN	CLUDE LANDS OF THE OWNER WHICH A	RE NOT CONTIGU	OUS TO THE	AREA TO BE AC	QUIRED.	5	11+50.00	52.00 R	260209.939	537541.943	5 TO 6	N85° 08' 32"W	140
PAVEMENT AND WIS. STATUTE 82.31(2)	OWNER'S NAMES	ARE SHOWN FOR REI WN OF IRONTON.	ERENCE PURPOSES ONLY AND ARE SUB	BJECT TO CHANGE	PRIOR TO TH	E TRANSFER OF	LAND	6	10+10.00	40.00 R	260221.838	537401.934	6 TO 1	N55° 02' 58"W	12.
REVISION DATE			DATE	s	CALE, FE	ΕT	Н	WY: M	ARSHAL	L ROA	D	STATE	R/W PROJ	ECT NUM	BER
			GRID FACTOR		0 1	0 20	) C	OUNTY	SAUK			CONST	RUCTION PF	ROJECT N	IUME
FILE NAME : W11648 MARSHALL RD_PLAT - L	AYOUT1						PLOT	DATE : 5/	9/2022 5:0	1 PM	PLOT E	Y : Kraemer	, Wes PLO	T NAME :	

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WISDOT/CADDS SHEET 75



# Standard Detail Drawing List

08E09-06	SILT FENCE
08E11-02	TURBI DI TY BARRI ER
12A03-10	NAME PLATE (STRUCTURES)
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
13C19-03	HMA LONGITUDINAL JOINTS
15A01-13A	MARKER POST FOR RIGHT-OF-WAY
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C06-10	SIGNING & MARKING FOR TWO LANE BRIDGES
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS



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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.

- $\bigcirc$  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  $1/_8$ " 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.







(WHEN REQUIRED BY THE ENGINEER)





- WATER ELEVATIONS.





SDD 08E -. 02





ALTERNATE LUG (FOR ATTACHMENT TO PRECAST STRUCTURES)

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 3-10 ∢ 2 Δ

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**SDD 13B02** 60

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#### 0 ດ Ô **CONCRETE PAVEMENT** . N 0 M 3 DEPARTMENT OF TRANSPORTATION ~ Δ

PAVEMENT SUPERVISOR

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#### **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)
  - MO5 1 AND MO6 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
  - D1 X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS. R1 - 1 SHALL BE 36" X 36"
- TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING
- (1)THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING
- (2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- (5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
- (6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE SIGNS AS SHOWN.
- (7)"EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.





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

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

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

ON BRIDGE ONLY PROJECTS, PLACE 300 FEET OF EDGELINE.

OMIT EDGELINES ON ROADWAYS WITHOUT EXISTING EDGELINES.

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

#### DISTANCE TABLE

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

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# SIGNING AND MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2022 DATE

/S/ Jeannie Silver STATE SIGNING AND MARKING ENGINEER

#### **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:			
			DU OT DUTE V AT NUM ODOO AVA	DI OT DY I IO	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>44-3.22</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>

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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 Matthew R Rauch For State Traffic Engineer DATE 8/21/17 PLATE NO. <u>A4-4.15</u> SHEET NO: <b>E</b>	
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 - <sup>3</sup>/<sub>8</sub>" 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
For State Traffic Engineer
DATE <u>4/1/202</u> 0 plate no. <u>A4-8.9</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	ô	WOO	DF	POST	
		MOD	IF	FICA	TI	SNC	
	WISCONSIN DEPT OF TRANSPORTATION						'
	APPROVED J Spane						
			tor	State Tr	affic Er	ngineer	
	DATE <u>3/27/97</u> PLATE NO. <u>A4-11.2</u>						
	SHEET NO: E						
OT SCALE	E:6.20 <b>7</b> 33	8:1.0000	000	WISD	от/с	ADDS SHEE	т 42



FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W552.DGN

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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						

PLOT DATE : 29-MAY-2012 13:03



# 5978-00-74

# DESIGN DATA

		DEGIGIN DAT				
	ELEV/	LIVE LOAD:				
942.82 193.00	LLLV.	DESIGN LOADIN			HL	-93 -1 17
931.09       WISCONSIN STANDARD PERMIT VEHICLE (WISSPN)       250 KPS         908.17       STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 P.S.F.         MATERIAL PROPERTIES:       CONCERTE MASONRY, SUPERSTRUCTURE       PC = 4,000 P.S.I.         MIGH-STRUCTURE TO BE SUPPORTED ON PLUNG STEEL HP 10-INCH X 42 LB DRIVEN TO A       MIGH-STRUCTURE DOWN PLUNG STEEL HP 10-INCH X 42 LB DRIVEN TO A         MIGH-STRUCTURE DOWN SUPPORTED ON PLUNG STEEL HP 10-INCH X 42 LB DRIVEN TO A       SUPPORTED DAWNER STRUCTURE       PC = 4,000 P.S.I.         MIGH-STRUCTURE DAWNER STRUCT OR PULLE SIN COMPRESSION USED FOR DESIGN USED FOR DESIGN SUST MACE OF PILES IN COMPRESSION USED FOR DESIGN USED FOR DESIGN SUSM MODIFIED GATES TO THE MILLED WINN RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN USED FOR DESIGN SUSM MODIFIED GATES TO THE MULTIPULE DAWNER RESISTANCE ACTOR OF DIST OF THE PILE LENGTHS AT BOTH A         MIDIFIED GATES DYNAMIC FORMULA ESTIMATE 40 FT PILE LENGTHS AT BOTH A         MIDIFIED GATES DYNAMIC FORMULA ESTIMATE 40 FT PILE LENGTHS AT BOTH A         MIDIFIED GATES DYNAMIC FORMULA ESTIMATE 40 FT PILE LENGTHS AT BOTH A         MIDIFIED GATES DYNAMIC FORMULA ESTIMATE 40 FT PILE LENGTHS AT BOTH A         MIDIFIED GATES DYNAMIC FORMULA ESTIMATE 40 FT PILE LENGTHS AT BOTH A         MIDIFIED GATES DYNAMIC FORMULA ESTIMATE 40 FT PILE LENGTHS AT BOTH A         MIDIFIED GATES DYNAMIC FORMULA ESTIMATE 40 FT PILE LENGTHS AT BOTH A         MIDIFIED GATES DYNAMIC FORMULA ESTIMATE 40 FT PILE LENGTHS AT BOTH A         MIDIFIED GATES DYNAMIC FORMULA ESTIMATE 40 FT P	932.82	OPERATING RAT	TING FACTOR		RF	=1.17
90.041       STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 P.S.F.         90.071       MATERIAL PROPERTIES:         CONCRETE MASONRY, SUPERSTRUCTURE       fc = 4,000 P.S.I.         ALLOTHER       fc = 4,000 P.S.I.         HIGH-STRENGTH BAR STELL       fc = 0,000 P.S.I.         MOMENTIS TO BE SUPPORTED ON PILING STELL PP 10-INCH X 42 LB DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 100 TONS'' PER PILE AS DETERMINED BY THE AS DETERMINED BY TH	913.09	WISCONSIN STA	NDARD PERMIT VEH	ICLE (WIS-SPV)	25	0 KIPS
908.17       MATERIAL PROPERTIES: CONCRETE MASONRY, SUPERSTRUCTURE       fc = 4,000 P.5.1. fc = 3,500 P.5.1. REINFORCEMENT, GRADE 60       fc = 4,000 P.5.1. fc = 3,500 P.5.1. Fc = 3,500 P.5.1. REINFORCEMENT, GRADE 60         ABUTMENTS TO BE SUPPORTED ON PILING STEEL HP 10-INCH X 42 LB DRIVEN TO A REQUIRED DRIVING RESISTANCE 0F I/D TONS" PER PILE AS DETERMINED BY THE MOUTMENTS.       and the text of the text of the text of the text of the MOUTMENTS.         "THEF FACTORED ANALL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN DO USEN MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.       175 A.0.T. (2023)         "THEF FACTORED ANALL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN DESIGN SPEED       30 M.P.H.         "ADT. (2023)       175 A.D.T. (2023)       250 DESIGN SPEED         DO YEAR FREQUENCY DIVALMED EARTS TO DETERMINE DRIVEN PILE CAPACITY.       933 SQ. MI. 2350 C.F.S. DESIGN SPEED       30 M.P.H.         DO YEAR FREQUENCY DIVALMED EARTS TO DETERMINE DRIVEN PILE CAPACITY.       125 C.F.S. DESIGN ROADWAY OVERTICURE       235 C.F.S. DESIGN ROADWAY OVERTICURE       235 C.F.S. DESIGN ROADWAY OVERTICURE       235 C.F.S. DESIGN ROADWAY OVERTICURE       275 C.F.S. DESIGN ROADWAY OVERTICURE       275 C.F.S. DESIGN ROADWAY OVERTICURE FEQUENCY MATERWAY AREA - THROUGH STRUCTURE       275 C.F.S. DESIGN ROADWAY OVERTICURE FEQUENCY MATERWAY AREA - THROUGH STRUCTURE       275 C.F.S. DESIGN ROADWAY OVERTICURE FEQUENCY MATERWAY AREA - THROUGH STRUCTURE       275 C.F.S. DESIGN ROADWAY OVERTICURE FEQUENCY MATERWAY AREA - THROUGH STRUCTURE       275 C.F.S. DESIGN ROADWAY OVERTICURE FEQUENCY MATERWAY AREA - THROUGH STRUCTURE DESIGN ROADWAY OVERTICURE FEQUE	910.04	STRUCTURE IS D	ESIGNED FOR A FUT	URE WEARING SURFAC	E OF 20 P.S.F.	
	908.17	MATERIAL PR	OPERTIES:			
ALL OTHER       fc = 3,500 P.S.I.         MIGH-STRENGTH BAR STEEL REINFORCEMENT, GRADE 00       fy = 60,000 P.S.I. <b>POUNDATION DATA</b> AUTMENTS TO BE SUPPORTED ON PILUNG STEEL HP 10-INCH X 42 LB DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 170 TONS'' PER PILE AS DETERMINED BY THE ABUTMENTS.         "THE REQUIRED DATABLE SAMAL RESISTANCE OF I20 TONS'' PER PILE AS DETERMINED BY THE ABUTMENTS.       "THE REQUIRED DATABLE STIANCE MULTIPLIED BY A RESISTANCE ACTOR OF 0.5 USING MODIFIED GATES TO DETERMINED DRIVEN PILE CAPACITY. <b>MDT</b> [203]       [75] A.D.T. (2023]       [75] A.D.T. (2023]       [76] D.D.T. (2023]         DO YEAR FREQUENCY       [93] S.Q. MIL (193) C.F.S. 0 DEGISON SPEED       [93] S.Q. MIL (2010) TOTAL [20] C.F.S. 100 VEAR FREQUENCY       [93] S.Q. MIL (2010) TOTAL [20] S.C.F.S. 100 VEAR FREQUENCY       [93] S.C.F.S. 100 VEAR FREQUENCY       [93] S.C.F.S. 100 VEAR FREQUENCY       [94] VEAR FREQUENCY         Construct       [94] C.C.F.S. 100 VEAR FREQUENCY       [95] S.C.F.S. 100 VEAR FREQUENCY <td></td> <td>CONCRETE MAS</td> <td>ONRY, SUPERSTRUC</td> <td>TURE</td> <td> f'c = 4,0</td> <td>00 P.S.I.</td>		CONCRETE MAS	ONRY, SUPERSTRUC	TURE	f'c = 4,0	00 P.S.I.
		HIGH-STRENGT	ALL O	THER	f'c = 3,5	00 P.S.I.
		REINFORCEMEN	IT, GRADE 60		fy = 60,	000 P.S.I.
ABUTINENTS TO BE SUPPORTED ON PILING STEEL HP 10-INCH X 42 LB DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 120 TONS** PER PILE AS DETERMINED BY THE MUTINENTS. ***THE FACTORED AXAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE BEQUIRED DRIVING RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE BEQUIRED DRIVING RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE BEQUIRED DRIVING RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE BEQUIRED DRIVING RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE BEQUIRED DRIVING RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE BEQUIRED DRIVING RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE SUCCIVIC THE INFORMATION OF THE IS TO DETERMINE DRIVEN PILE CAPACITY. MUTINEWS TREQUENCY DO YEAR TREW DO YEAR TR		<b>ΕΟΠΝΠΑΤΙΟΙ</b>				
		ABUTMENTS TO BE	SUPPORIED ON PIL	ING STEEL HP 10-INCH ) TONS** PER PILE AS D	X 42 LB DRIVE	N TO A Y THE
		MODIFIED GATES D	YNAMIC FORMULA.	ESTIMATE 40 FT PILE L	ENGTHS AT BO	DTH
		ABUTMENTS.				
IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.         MADT. (2023)       175 A.D.T. (2023)         A.D.T. (2023)       260 BOINDED         D.T. (2023)       260 BOINDED         DO YEAR FREQUENCY       9.33 SQ. MI. Quan TOTAL         DATE INDUCTION       1.937 CF.S. VELOCITY - THROUGH STRUCTURE         OVERTOPHING ROADWAY       1.937 CF.S. VELOCITY - THROUGH STRUCTURE         OVERTOPHING ROADWAY OVERLOW REQUENCY       245 F.S. VELOCITY - THROUGH STRUCTURE         OVERTOPHING ROADWAY OVERLOW REQUENCY       64 VELOCITY         OVERTOPHING ELEVATION       912.727         HIGH WATER: ELEVATION       912.727         DESIGN ROADWAY OVERFLOW REQUENCY       64 VELOCITY         VELOCITY - THROUGH STRUCTURE       1.         GENERAL PLAN       1.         OWEST BUTNENT DETAILS       5.         SUBSUBRACE EXPLORATION       3.         VEST ABUTNENT DETAILS       5.         SUBSUBRACE EXPLORATION       3.         VEST ABUTNENT DETAILS       5.         SUBSUBRACE EXPLORATION		**THE FACTORED A	XIAL RESISTANCE OF	PILES IN COMPRESSIO	N USED FOR D	ESIGN
		IS THE REQUIRED D	RIVING RESISTANCE	MULTIPLIED BY A RESI	STANCE FACTO	OR OF
TRAFFIC DATA         A.D.T. (2023)       260         DESIGN SPEED       30 M.P.H.         HYDRAULIC DATA       2,150 C.F.S.         DYRINAGE RARA       9,33 SQ. MI.         Que TOTAL       2,150 C.F.S.         OVERTOPPING ROADWAY       163 S.F.S.         VELOCITY THROUGH STRUCTURE       21,50 C.F.S.         SCOUR CRITICAL CODE       5         ERSION CONTROL       20,50 C.F.S.         Que TOYS       2,100 C.F.S.         HIGH WATER-ELEVATION       912.72 C.F.S.         HIGH WATER-ELEVATION       912.72 C.F.S.         MICH WATER-ELEVATION       1         SUBSURACE EXPLORATION       1         WEST ABUTINENT DETAILS       1         SUBSURACE EXPLORATION       1         WEST ABUTINENT DETAILS       1         SUBSURACE EXPLORATION       1         WEST ABUTINENT DETAILS       1         SUBSURACE EXPLORATION       1         SUBSURACE EXPLORA		0.5 05110 100011	D GATES TO DETERM	VIINE DRIVEN FILE CAF	ACITI.	
A.D.T. (2023)       175         A.D.T. (2023)       260         SIGN SPEED       30 M.P.H.         HYDRAULIC DATA       21350 C.F.S.         100 YEAR FREQUENCY       9.33 SQ. MI.         Qwar TOTAL       1987 C.F.S.         VEIDOUTY - THROUGH STRUCTURE       1987 C.F.S.         VEIDOUTY - THROUGH STRUCTURE       1987 C.F.S.         VEIDOUTY - THROUGH STRUCTURE       193 SQ. MI.         Qwar TOTAL       193 C.F.S.         VEIDOUTY - THROUGH STRUCTURE       275 C.F.S.         VEIDOUTY - THROUGH STRUCTURE       202 C.F.S.         MIGH WATERwellevation       907.83         Design ROADWAY OVERLOW FREQUENCY       907.83         CADWAY OVERLOW FREQUENCY       907.83         MOADWAY OVERLOW FREQUENCY       907.83         Codes Cation and Quantities       1         Cation And Quantities       1         Cation And Quantities       1         VEST ABUTMENT DETAILS       5		TRAFFIC DA	ТА			
A.D.T. (2043)       260         DESIGN SPEED       30 M.P.H.         HYDRAULC DATA       100 YEAR FREQUENCY         OW TOTAL       133 C.F.S.         OW TOTAL CODE       158 C.F.S.         VELOCITY - THROUGH STRUCTURE       1987 C.F.S.         VELOCITY - THROUGH STRUCTURE       1987 C.F.S.         VELOCITY - THROUGH STRUCTURE       73 F.P.S.         WEIGENTY - THROUGH STRUCTURE       73 S.P.S.         VELOCITY - THROUGH STRUCTURE       913.86         SCOUR CONTROL       24 F.P.S.         QUENTY - MORADWAY OVERLOW FREQUENCY       907.83         POLOCITY - THROUGH STRUCTURE       2102 C.F.S.         HIGH WATER= ELEVATION       912.72         MICH WATER= ELEVATION       912.72         WEST ABUTTMENT DETAILS       1         SUBURFACE EXPLORATION       1         SUPERSTRUCTURE       8         TUBULAR RAILING TYPE M       1         NO.       DATE       REVISION         SCOURD CONTOND       0         WEST ABUTTME		A.D.T. (2023)			17	5
DESIGN SPEED 30 M.P.H. HYDRAULIC DATA 100 YEAR FREQUENCY DRINAGE RAFA Que TOTAL 2,150 C.F.S. OVERTOPPING ROADWAY VELOCITY - THROUGH STRUCTURE 2,713 F.P.S. WATERWAY AREA - THROUGH STRUCTURE 271 SQ. F.T. HIGH WATERWOILEVATION 275 C.F.S. SCOUR CRITICAL CODE 5 EROSION CONTROL Que 275 C.F.S. HIGH WATER® ELEVATION 907.83 DESIGN ROADWAY OVERFLOW FREQUENCY ROADWAY OVERFLOW FREQUENCY ROADWAY OVERFLOW FREQUENCY BISIDE OF DRAWINGS General PLAN WEST ABUTMENT DETAILS 5 SUBSURFACE EXPLORATION 4 WEST ABUTMENT DETAILS 7 SUBSURFACE EXPLORATION 4 WEST ABUTMENT DETAILS 7 SUBERSTRUCTURE 7 SUBSURFACE EXPLORATION 6 WEST ABUTMENT DETAILS 7 SUBSURFACE EXPLORATION 7 METAIL ON THE CONSTRUCTURE 7 SUBSURFACE EXPLORATION 7 SUBSURFACE EXPLORATION 7 SUBSURFACE EXPLORATION 7 SALK 1000000000000000000000000000000000000		A.D.T. (2043)			26	0
		DESIGN SPEED			30	M.P.H.
100 YEAR FREQUENCY       9.33 SQ. MI.         Ques TOTAL       2,150 C.F.S.         THROUGH STRUCTURE       1,987 C.F.S.         OVERTOPING ROADWAY       163 C.F.S.         VELOCITY - THROUGH STRUCTURE       73 F.P.S.         WATERWAY AREA. THROUGH STRUCTURE       715 C.F.S.         VELOCITY - THROUGH STRUCTURE       725 C.F.S.         VELOCITY - THROUGH STRUCTURE       913.86         SCOUR CRITICAL CODE       5         EROSION CONTROL       927.57.83         DESIGN ROADWAY OVERFLOW FREQUENCY       96 YEARS         NOBMAY OVERFLOW FREQUENCY       912.72         HIGH WATER: ELEVATION       912.72         LIST OF DRAWINGS       1         General PLAN       1         VEST ABUTMENT       2         SUBSUBFACE EXPLORATION       312.72         USUSSURFACE EXPLORATION       3         WEST ABUTMENT       5         EAST ABUTMENT DETAILS       5         EAST ABUTMENT DETAILS       5         EAST ABUTMENT DETAILS       5         VEST ABUTMENT DETAILS       5         EAST ABUTMENT DETAILS       5         EAST ABUTMENT DETAILS       5         EAST ABUTMENT DETAILS       5         DEAST ABUTMENT DETAILS			ΠΔΤΔ			
DRAINAGE AREA       9.33 SQ. MI.         Question Total       2,150 C.F.S.         OVERTOPPING ROADWAY       168 C.F.S.         OVERTOPPING ROADWAY       168 C.F.S.         VELOCITY-THROUGH STRUCTURE       271 SQ. FT.         HIGH WATERs DELEVATION       200 C.F.S.         VELOCITY-THROUGH STRUCTURE       275 C.F.S.         VELOCITY-THROUGH STRUCTURE       275 C.F.S.         VELOCITY-THROUGH STRUCTURE       275 C.F.S.         VELOCITY-THROUGH STRUCTURE       275 C.F.S.         VELOCITY-THROUGH STRUCTURE       276 C.F.S.         VELOCITY-THROUGH STRUCTURE       276 C.F.S.         MIGH WATERs ELEVATION       907.83         DESIGN ROADWAY OVERFLOW FREQUENCY       96 YEARS         Question ROADWAY OVERFLOW FREQUENCY       96 YEARS         Question ROADWAY OVERFLOW FREQUENCY       912.72         NO.       1.       1.         USUBURACE EXPLORATION       1.         VEST ABUTMENT DETAILS       5.         EAST ABUTMENT DETAILS       5.         EAST ABUTMENT DETAILS       5.         SUPERSTRUCTURE       SEMUMACE AND DEPARTMENT DETAILS         VEST ABUTMENT DETAILS       5.         SUPERSTRUCTURE       SEMUMACE AND DEPAREMONDARY         NO.       DAT						
Question STRUCTURE       2,150 C.F.S.         OVERTOPPING ROADWAY       163 C.F.S.         OVERTOPPING ROADWAY       163 C.F.S.         VELOCITY-THROUGH STRUCTURE       271 SQ. FT.         HIGH WATER: DELEVATION       913.86         SCOUR CONTROL       Q.         Q.       275 C.F.S.         VELOCITY:       2.4 F.P.S.         HIGH WATER: DELEVATION       907.83         DESIGN ROADWAY OVERFLOW FREQUENCY       96 YEARS         Q.       2,102 C.F.S.         VELOCITY:       2.102 C.F.S.         HIGH WATER: ELEVATION       907.83         DESIGN ROADWAY OVERFLOW FREQUENCY       96 YEARS         Q.       2,102 C.F.S.         HIGH WATER: ELEVATION       912.72         LIST OF DRAWINGS       1         GENERAL PLAN       1         COSS SECTION AND QUANTITIES       2.         SUBSURFACE EXPLORATION       3.         WEST ABUTMENT       5.         EAST ABUTMENT DETAILS       5.         EAST ABUTMENT DETAILS       5.         TUBULAR RAILING TYPE M       9.         NO.       DATE       State Or WISSONS         DEFINITURE       State Or WISSONS       DEFINITURE         BOONOON		DRAINAGE AREA	A		9.33 SQ	. MI.
INDUCION THROUGH STRUCTURE       1,957 C.F.S.         VELOCITY - THROUGH STRUCTURE       7,3 F.P.S.         WATERWAY AREA - THROUGH STRUCTURE       271 SQ. FT.         HIGH WATER:00 ELEVATION       913.86         SCOUR CRITICAL CODE       5         EROSION CONTROL       275 C.F.S.         VELOCITY:       2.4 F.P.S.         HIGH WATER:00 ELEVATION       907.83         DESIGN ROADWAY OVERFLOW FREQUENCY       96 YEARS         Q:%       2.102 C.F.S.         HIGH WATER:00 ELEVATION       912.72         LIST OF DRAWINGS       1         GENERAL PLAN       1         Cross Section AND QUANTITIES       5.         SUBSURFACE EXPLORATION       3.         WEST ABUTMENT       6.         SUBSURFACE EXPLORATION       3.         WEST ABUTMENT DETAILS       5.         SUBSURFACE EXPLORATION       8.         VELOCITVE       8.         TUBULAR RAILING TYPE M       9.         NO.       DATE       REVISION         BAUTMENT       EAST ABUTMENT DETAILS       5.         LAST ABUTMENT DETAILS       S.       9.         NO.       DATE       REVISION       BY         BAUTMENT       CHEE STRUCTURE B					2,150 C	F.S.
VELOCITY - THROUGH STRUCTURE 7.3 F.P.S. WATERWAY AREA - TROUGH STRUCTURE 271 SQ. FT. HIGH WATER: ELEVATION 913.86 SCOUR CRITICAL CODE 5 EROSION CONTROL Q. 275 C.F.S. VELOCITY? 2.4 F.P.S. HIGH WATER: ELEVATION 907.83 DESIGN ROADWAY OVERFLOW FREQUENCY ROADWAY OVERFLOW FREQUE		OVERTOPPIN	IG ROADWAY		1,987 C. 163 C.F.	F.S. S.
WAI LEWAY AREA - I HROUGH SINCLORE       271 SG. FT.         HIGH WATER® ELEVATION       913.86         SCOUR CRITICAL CODE       5         EROSION CONTROL       275 C.F.S.         Q:       275 C.F.S.         VELOCITY:       2.4 F.P.S.         HIGH WATER? ELEVATION       907.83         DESIGN ROADWAY OVERFLOW FREQUENCY       96 YEARS         Co:       2.102 C.F.S.         HIGH WATER® ELEVATION       912.72         LIST OF DRAWINGS       1.         CROSS SECTION AND QUANTITIES       2.         SUBSURFACE EXPLORATION       3.         WEST ABUTMENT       4.         WEST ABUTMENT       5.         EAST ABUTMENT       5.         EAST ABUTMENT       5.         VERSTAUTMENT       7.         SUPERSTRUCTURE       SOO SUNRISE DRIVE         EAST ABUTMENT OFTAILS       7.         SUPERSTRUCTURE       SOO SUNRISE DRIVE         VERSTABUTMENT       6.         EAST ABUTMENT OFTAILS       0.         SUPERSTRUCTURE       9.		VELOCITY - THR	OUGH STRUCTURE		7.3 F.P.	5.
SCOUR CRITICAL CODE       5         EROSION CONTROL       275 C.F.S.         VELOCITY2       24 F.P.S.         HIGH WATER: ELEVATION       907.83         DESIGN ROADWAY OVERFLOW FREQUENCY       96 YEARS         Q:6       2,102 C.F.S.         HIGH WATER: ELEVATION       912.72         LIST OF DRAWINGS       1.         GENERAL PLAN       1.         Cross Section AND QUANTITIES       1.         SUBSURFACE EXPLORATION       3.         WEST ABUTMENT       5.         EAST ABUTMENT DETAILS       5.         EAST ABUTMENT DETAILS       5.         SUBJURFACE EXPLORATION       9.         NO.       DATE       REVISION         VUBULAR RAILING TYPE M       9.         SUBJURFACE CONTACTURE       8.         TUBULAR RAILING TYPE M       9.         STATE OF WISCONSIN DEPARTMENT DETAILS       0.         SUBJURFACE CONTACTURE       SECONS SECTION         BEIDGE OFFICE CONTACT       ALING TYPE M         BRIDGE OFFICE CONTACT       ALING TYPE M         BRIDE OFFICE CONTACT       ALINT OR PHILOS DESIGN SPECIFICATIONS         BRIDE OFFICE CONTACT       ALINT OR PHIL BRAND         BRIDGE OFFICE CONTACT       ALINT OR PHIL BRAND </td <td></td> <td>HIGH WATER100</td> <td>EA - THROUGH STRU FLEVATION</td> <td>CIURE</td> <td> 271 SQ. 913 86</td> <td>FT.</td>		HIGH WATER100	EA - THROUGH STRU FLEVATION	CIURE	271 SQ. 913 86	FT.
EROSION CONTROL       275 C.F.S.         Q2       2.4 F.P.S.         YELOCITY2       2.4 F.P.S.         YELOCITY2       907.83         DESIGN ROADWAY OVERFLOW FREQUENCY       907.83         Q36       2.102 C.F.S.         HIGH WATER:       2.102 C.F.S.         HIGH WATER:       2.102 C.F.S.         UST ADUTMENT       2.102 C.F.S.         WEST ABUTMENT       1.         WEST ABUTMENT       4.         WEST ABUTMENT       5.         WEST ABUTMENT       6.         EAST ABUTMENT       6.         WEST ABUTMENT       6.         WEST ABUTMENT       7.         SUBSURFACE EXPLORATION       9.         NO.       DATE       REVISION         BYDERSTRUCTURE       DESIGN SURVESE DENVES         GONS       MO.       DATE       REVISION         NO.       DATE       REVISION       BY         DEVENTION       DESIGN SURVESE DENVES       DESIGN SURVESE DENVES         DEVENTION       DEVENTION       DEVENTION       DEVENTION         DEVENTION       DEVENTION       DEVENTION       DEVENTION         DEVENTION       DEVENTION       DEVENTION       DEVENTION <td></td> <td>SCOUR CRITICAL</td> <td>L CODE</td> <td></td> <td> 5</td> <td></td>		SCOUR CRITICAL	L CODE		5	
DENOTION CONTROL       275 C.F.S.         Q:       275 C.F.S.         VELOCITY:       2.4 F.P.S.         HIGH WATER: ELEVATION       907.83         DESIGN ROADWAY OVERFLOW FREQUENCY       96 YEARS         ROADWAY OVERFLOW FREQUENCY       96 YEARS         Q:       2,102 C.F.S.         HIGH WATER: ELEVATION       912.72         LIST OF DRAWINGS       1.         GENERAL PLAN       1.         CROSS SECTION AND QUANTITIES       2.         SUBSURFACE EXPLORATION       4.         WEST ABUTMENT       4.         WEST ABUTMENT       4.         WEST ABUTMENT       5.         EAST ABUTMENT       5.         VEST ABUTMENT DETAILS       5.         EAST ABUTMENT       8.         TUBULAR RAILING TYPE M       9.         NO.       DATE       REVISION         BYDERSTRUCTURE       Set Son SUNRISE DERVE       Spring GREEN, WI S3588         OFFICE:       (608) 588-7484       WWW.JSWEIASSOC.com         STATE OF WISCONSIN       DEFICIE:       (608) 588-7484         MORE ADD       CHIEF STRUCTURES DESIGN ENGINER       DATE         DESIGN SPEC.       CHIEF STRUCTURE DESIGN ENGINER       DATE						
VELOCITY2       2.4 F.P.S.         HIGH WATER2 ELEVATION       907.83         DESIGN ROADWAY OVERFLOW FREQUENCY       96 YEARS         Q36       2.102 C.F.S.         HIGH WATER66 ELEVATION       912.72         LIST OF DRAWINGS       1.         GENERAL PLAN       1.         CROSS SECTION AND QUANTITIES       2.         SUBSURFACE EXPLORATION       3.         WEST ABUTMENT       4.         EAST ABUTMENT DETAILS       5.         EAST ABUTMENT DETAILS       7.         SUPERSTRUCTURE       8.         TUBULAR RAILING TYPE M       9.         NO. DATE       REVISION       BY         FILE       BOS SUNRISE DRIVE         DESIGN SPC:       BY       S60 SUNRISE DRIVE         SUPENSTRUCTURE       S60 SUNRISE DRIVE         TUBULAR RAILING TYPE M       9.         NO. DATE       REVISION       BY         MIGH SCONSTRUCTURES       BY       S60 SUNRISE DRIVE         SUPENSTRUCTURE       S60 SUNRISE DRIVE       S660 SURRISE DRIVE         SUPENSTRUCTURE       BY       S60 SUNRISE DRIVE         BY       MARSHALL ROAD OVER CARR VALLEY BRANCH       MARSHALL ROAD OVER CARR VALLEY BRANCH         COUNTY       SA		Q2	-		275 C.F.	S.
PIGH WATER ELEVATION       907.83         DESIGN ROADWAY OVERFLOW FREQUENCY       96 YEARS         Qoe       2,102 C.F.S.         HIGH WATER® ELEVATION       912.72         LIST OF DRAWINGS       1         GENERAL PLAN       1         CROSS SECTION AND QUANTITIES       3.         WEST ABUTMENT DETAILS       5.         EAST ABUTMENT DETAILS       5.         EAST ABUTMENT DETAILS       6.         EAST ABUTMENT DETAILS       7.         SUPERSTRUCTURE       8.         TUBULAR RAILING TYPE M       9.         NO.       DATE       REVISION         MERCK       BRINGE GREEN, WI 53588         OFFICE: (608) 588-7484       WW.JewellAssoc.com         MO.       DATE       REVISION         BEIDGE OFFICE CONTACT       AASHTO LIFD BRIDGE DESIGN SPECIFICATIONS       DATE         BRIDGE OFFICE CONTACT       AASHTO LIFD BRIDGE DESIGN SPECIFICATIONS       DATE         BRIDGE OFFICE CONTACT       AASHTO LIFD BRIDGE DESIGN SPECIFICATIONS       BYNN OVERCHUCK         DESIGN SPEC       AASHTO LIFD BRIDGE DESIGN SPECIFICATIONS       BYNN OVERCHUCK         DESIGN SPEC       AASHTO LIFD BRIDGE DESIGN SPECIFICATIONS       DATE         BRIDDE OFFICE CONTACT       SHEET 1 OF 9		VELOCITY2			2.4 F.P.	5.
DESIGN ROADWAY OVERFLOW FREQUENCY ROADWAY OVERFLOW FREQUENCY       96 YEARS 2,102 C.F.S.         Qx6 HIGH WATERs6 ELEVATION       912.72         LIST OF DRAWINGS       1.         CROSS SECTION AND QUANTITIES       2.         SUBSURACE EXPLORATION       3.         WEST ABUTMENT       4.         WEST ABUTMENT       5.         EAST ABUTMENT       5.         EAST ABUTMENT       6.         SUBSURACE EXPLORATION       8.         TUBULAR RAILING TYPE M       9.         NO.       DATE         RECK       BRIDGE OFFICE CONTACT         AGONSO       TOWN/GET/AULAGE         BRIDGE OFFICE CONTACT       AASHTO LIFE DRIDGE DESIGN SPECIFICATIONS         BRIDGE OFFICE CONTACT       SAMITO LIFE DRIDGE DESIGN SPECIFICATIONS					907.83	
Rick       Modeway Overflow Preduency       90 YEARS         General Plan       1         CROSS SECTION AND QUANTITIES       2         Subsurface Exploration       3         West abutment       4         West abutment       4         West abutment       6         East abutment       8         Ubular Railing TYPE M       9         No.       Date         Revision       8         Ubular Railing TYPE M       9         No.       Date         Revision       8         Ubular Railing TYPE M       9         No.       Date         Revision       8         Ubular Railing TYPE M       9         State or Wisconsin       6         Department or transportation       08/266/22         Chief Structruere B-56-2444       Marshall Road Over CARR Valley BRANCH         County       Sauk       Town/eff/Amilasc         Bridge Office contact       Bridge Design Specifications         Bridge Office contact       Sheet 1 0 F 9         Bridge Office Contact       Sheet 1 0 F 9		DESIGN ROADWAY	OVERFLOW FREQUE	NCY	00.00	
HIGH WATERse ELEVATION       912.72         LIST OF DRAWINGS       1.         CROSS SECTION AND QUANTITIES       2.         SUBSURFACE EXPLORATION       3.         WEST ABUTMENT       4.         EAST ABUTMENT       6.         EAST ABUTMENT DETAILS       5.         EAST ABUTMENT DETAILS       7.         SUPERSTRUCTURE       8.         TUBULAR RAILING TYPE M       9.         NO.       DATE       REVISION         BRIDGE OFFICE CONTACT       RASHOL LOAD OVER CARR VALLEY BRANCH       D8/26/22         CHIEF STRUCTURE SOURCE       SAUK       D8/26/22         DESIGN SPECIFICATIONS       SAUK       D8/26/22         DESIGN SPECIFICATION       SAUK       D8/26/22         DESIGN SPECIFICATIONS       SAUK       D8/26/22         DESIGN SPEC       ANSHOL LOAD OVER CARR VALLEY BRANCH       D0/26/22         DESIGN SPEC       ANSHOL LOAD OVER CARR VALLEY BRANCH       D0/26/22         DESIGN SPEC       ANSHOL LOAD OVER CARR VALLEY BRANCH       D0/26/22         DESIGN SPEC       ANSHOL LOAD OVER CARR VALLEY BRANCH       D0/26/22         DESIGN SPEC       ANSHOL LOAD OVER CARR VALLEY BRANCH       D0/26/20         DESIGN SPEC       ANSHOL LOAD OVER CARR VALLAGE <td< td=""><td>U .</td><td></td><td>RFLOW FREQUENCY</td><td></td><td> 96 YEAF</td><td>E.S.</td></td<>	U .		RFLOW FREQUENCY		96 YEAF	E.S.
BIDGE OFFICE CONTACT		HIGH WATER96 E	LEVATION		912.72	
CLIST OF DRAWINGS         GENERAL PLAN         GENERAL PLAN         CROSS SECTION AND QUANTITIES         WEST ABUTMENT         EAST ABUTMENT DETAILS         EAST ABUTMENT DETAILS         EAST ABUTMENT DETAILS         EAST ABUTMENT DETAILS         TUBULAR RAILING TYPE M         NO.         DATE         RECK         DONS         NO.         DATE         RECK         DONS         NO.         DATE         RECK         DONS         NO.         DATE         RECK         DONS         CHIEF STRUCTURE         DONS         MO.         DATE         RECK         DONS         CHIEF STRUCTURES DESIGN ENGINER         DESIGN ENCY         CHIEF STRUCTURES DESIGN ENGINEER         DATE         DATE         DESIGN SPEC         ASHTO LRED BRIDGE DESIGN ENGINEER         DESIGN SPEC         ASHTO LRED BRIDGE DESIGN SPECIFICATIONS         DESIGN SPEC         ASHTO LRED BRIDGE DESIGN SPECIFICATIONS         DE	X					
GENERAL PLAN       1.         CROSS SECTION AND QUANTITIES       1.         SUBSURFACE EXPLORATION       3.         WEST ABUTMENT DETAILS       5.         EAST ABUTMENT DETAILS       6.         EAST ABUTMENT DETAILS       7.         SUPERSTRUCTURE       8.         TUBULAR RAILING TYPE M       9.         NO.       DATE       REVISION         BRIDGE OFFICE CONTACT       ACCEPTED       DATE         BRIDGE OFFICE CONTACT       ARON BONK, PE       DESIGN EPC         ARON BONK, PE       THE OFFICE CONTACT       ARON BONK, PE	$\bowtie$	LIST OF DRA	WINGS			
SUBSURFACE EXPLORATION       3.         WEST ABUTMENT       4.         WEST ABUTMENT DETAILS       5.         EAST ABUTMENT DETAILS       7.         SUPERSTRUCTURE       8.         TUBULAR RAILING TYPE M       9.         NO.       DATE         REVISION       BY         SUPERSTRUCTURE       8.         TUBULAR RAILING TYPE M       9.         SUPERSTRUCTURE       8.         TUBULAR RAILING TYPE M       S60 SUNRISE DRIVE SPRING GREEN, WI 53588 OFFICE: (608) 588-7484 ww.JewellAssoc.com         RICK       State OF WISCONSIN DEPARTMENT OF TRANSPORTATION       State OF WISCONSIN DEPARTMENT OF TRANSPORTATION         ACCEPTED       STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION       D8/26/22         CHIEF STRUCTURES DESIGN ENGINEER       08/26/22         CHIEF STRUCTURE DE-56-2444       DATE         MARSHALL ROAD OVER CARR VALLEY BRANCH       COUNTY         COUNTY       SAUK       TOWIN/GHT/WILLAGE         DESIGN ENCLORE       AASHTO LIRFD BRIDGE DESIGN SPECIFICATIONS         DESIGNED OF DICK       DESIGN PME       DESIGN         BRIDGE OFFICE CONTACT       AASHTO LIRFD BRIDGE DESIGN SPECIFICATIONS         DESIGNED OF TO DE DICK       SHEET 1 OF 9	<u> </u>	GENERAL PLAN			1. 2	
WEST ABUTMENT       4.         WEST ABUTMENT DETAILS       5.         EAST ABUTMENT DETAILS       6.         SUPERSTRUCTURE       8.         TUBULAR RAILING TYPE M       9.         NO.       DATE       REVISION         NO.       DATE       REVISION         NO.       DATE       REVISION         NO.       DATE       REVISION         NO.       DATE       S60 SUNRISE DRIVE         SPRING GREEN, WI 53588       OR/26/22         WWW.JewellAssoc.com       STATE OF WISCONSIN         DEPARTMENT OF HISTORY       SITHE OF WISCONSIN         DEPARTMENT OF HISTORY       DATE         STATE OF WISCONSIN       SITHE OF WISCONSIN         DEPARTMENT OF HISTORY       SITHE OF WISCONSIN         DEPARTMENT OF HISTORY       SITHE OF WISCONSIN         DEPARTMENT OF HISTORY       SITHE         MARSHALL ROAD OVER CARR VALLEY BRANCH       DATE         OUNTY       SAUK       TOWN/GHV/ANLAGE         BRIDGE OFFICE CONTACT       AARON BONK, PE       GENERAL PLAN         BRIDGE OFFICE CONTACT       SHEET 1 OF 9       SHEET 1 OF 9	$\bigcirc$	SUBSURFACE EXPLO	ORATION		3.	
WEST ABOTMENT DETAILS       5.         EAST ABUTMENT DETAILS       7.         SUPERSTRUCTURE       8.         TUBULAR RAILING TYPE M       9.         NO.       DATE       REVISION         NO.       DATE       SEGO SUNRISE DRIVE         SPRING GREEN, WI 53588       OSIGNESER, WI 53588       OFICE:         STATE OF WISCONSIN       SPRING GREEN, WI 53588       OFICE:         GEOGRATION       SPRING GREEN, WI 53588       OFICE:       OB/26/22         GATE       STATE OF WISCONSIN       SPRING GREEN, WI 53588       OFICE:         GENERAL PLAN       SPRING GREEN, WI 53588       OFICE:       OB/26/22         ODIT       JUNICHTARY AND	$\left( \right)$	WEST ABUTMENT			4.	
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BRIDGE OFFICE CONTACT         AARON BONK, PE	JUNS	111	JEN	SPR	NG GREEN, V	VI 53588
BRIDGE OFFICE CONTACT         AARON BONK, PE		Nº1	essociates	engineers, Inc. OFF	ICE: (608) 58 w.JewellAsso	8-7484 c.com
BRIDGE OFFICE CONTACT         AARON BONK, PE			Engineere - Ar	chilacia - Surveyore		
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ELEV. 932.82 913.09 910.04

> PLOT SCALE : 1" = 1







FILE NAME : S:\PROJECTS\W11648 WISDOT - MARSHALL ROAD BRIDGE P-56-0916 SAUK CO\STRUCTURE\CAD FILES\FINALS\W11648\_02\_CROSS SECTION AND QUANTITIES.DW

#### 5978-00-74

## **GENERAL NOTES**

DRAWINGS SHALL NOT BE SCALED.

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE NORTH AMERICA VERTICAL DATUM OF 1988 (NAVD 88).

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

JOINT FILLER SHALL CONFORM TO A.A.S.H.T.O. DESIGNATION MI53, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION M213.

THE SLOPE OF 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, OR AS DIRECTED BY THE ENGINEER IN THE FIELD.

AT THE BACK FACE 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. SEE THIS SHEET FOR DETAIL.

ANY EXCAVATION BELOW THE ABUTMENT AND ASSOCIATED ABUTMENT BEDDING MATERIALS REQUIRE THE APPROVAL OF THE ENGINEER IN THE FIELD.

AT THE DECK, APPLY PROTECTIVE SURFACE TREATMENT TO THE TOP OF THE DECK (CONCRETE MATERIAL ONLY), THE SIDES OF THE DECK, THE EXTERIOR 12" OF THE UNDERSIDE OF THE DECK, AND THE HORIZONTAL AND VERTICAL FACES OF THE PAVING NOTCH. AT THE ABUTMENTS, APPLY TO THE TOP AND EXTERIOR EXPOSED FACES OF WINGS AND THE FRONT FACE OF ABUTMENTS TO 12" PAST THE EDGE OF SLAB. SEE THIS SHEET FOR DETAIL.

ALL STATIONS AND ELEVATIONS SHOWN ARE IN FEET.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-56-244" SHALL BE THE EXISTING GROUNDLINE.

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

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

THE EXISTING STRUCTURE (P-56-916) CONSISTS OF TWO 11.8' x 7' METAL PIPE ARCH CULVERTS WITH CONCRETE HEADWALLS AND CONCRETE APRONS. THE CULVERTS HAVE A LENGTH OF 38.5'. THE EXISTING STRUCTURE INCLUDING CULVERTS, HEADWALLS, AND APRONS SHALL BE REMOVED.



PILE SPLICE DETAIL

STEEL "HP" PILE MATERIAL SHALL BE ASTM A 572 GRADE 50.







GEOTEXTILE -

TYPE HR





FILE NAME : S:\PROJECTS\W11648 WISDOT - MARSHALL ROAD BRIDGE P-56-0916 SAUK CO\STRUCTURE\CAD FILES\FINALS\W11648\_04\_ABUTMENTS.DWG BAR MARK

A522

STATE PROJECT NUMBER

5978-00-74

## **BILL OF BARS** WEST ABUTMENT

# 1,410 LB (COATED) 2,170 LB (UNCOATED)

BAR MARK	NO. REQ'D.	LENGTH	BENT	COAT	LOCATION
A501	41	14-2	Х		BODY -VERT STIRRUP
A502	4	7-10	Х		BODY - VERT STIRRUP AT ENDS
A403	10	2-3			BODY - VERT 2 PER PILE
A404	5	28-0	Х		BODY - SPIRAL - 1 PER PILE
A605	11	34-10			BODY - HORIZ F.F. & TOP
A606	7	24-10			BODY - HORIZ B.F.
A807	7	10-0	Х		BODY - HORIZ B.F END
A808	7	11-2	Х		BODY - HORIZ B.F END
A509	24	4-11	Х		BODY - VERT TOP
A410	3	23-6			BODY - HORIZ TOP
A511	2	4-7			BODY - VERT END
A512	2	5-1			BODY - VERT END
A513	34	2-0		Х	BODY - VERT DOWELS
A514	9	15-8	Х	Х	WING 1- VERT STIRRUP
A515	2	4-7		Х	WING 1- VERT F.F.
A516	6	13-3		Х	WING 1- HORIZ F.F.
A617	6	11-7		Х	WING 1 - HORIZ B.F.
A618	2	12-2		Х	WING 1- HORIZ TOP
A619	13	10-8	Х	Х	WING 1 - VERT TOP
A420	6	9-7		Х	WING 1 - HORIZ F.F. & B.F TOP
A621	2	9-7		Х	WING 1 - HORIZ TOP
A522	10	16-8	х	Х	WING 2 - VERT STIRRUP
A523	6	11-9		Х	WING 2 - HORIZ F.F.
A624	6	13-5		Х	WING 2 - HORIZ B.F.
A625	2	12-3		Х	WING 2 - HORIZ TOP
A626	13	10-8	Х	Х	WING 2 - VERT TOP
A427	6	9-7		Х	WING 2 - HORIZ F.F. & B.F TOP
A628	2	9-7		Х	WING 2 - HORIZ TOP

NOTES: THE FIRST DIGIT OF A BAR MARK SIGNIFIES THE BAR SIZE.

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.



A501, A514, A522

'W'

A501 2-2 4-7

2-11

A514 2-11



A502



#### A509, A619, A626

BAR MARK	'W'	'H'	
A509	2-2	1-6	
A619	1-2	4-11	
A626	1-2	4-11	



'H'

4-7

5-1



5-WRAP SPIRAL





SOME BARS HAVE BEEN OMITTED FOR CLARITY. SEE SHEET 7 FOR BILL OF BARS.

SEAT ELEVATIONS SHOWN IN THE ELEVATION VIEW ARE TAKEN AT THE C/L OF BEARING (NEGLECTING THE KEYED CONSTRUCTION JOINT).

SPACE REINFORCEMENT TO MISS PILING

F.F. - FRONT FACE

B.F. - BACK FACE



LEGEND

- KEYED CONSTRUCTION JOINT FORMED BY SURFACED & BEVELED 2x6.
- VERTICAL 18" RUBBERIZED MEMBRANE WATERPROOFING EXTEND FROM 9" BELOW BRIDGE SEAT TO 1" BELOW TOP OF WINGS.
- 18" RUBBERIZED MEMBRANE WATERPROOFING. (HORIZONTAL)
- ▲ ½" FILLER EXTEND AS SHOWN. SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY, NON-BITUMINUOS JOINT SEALER. (1" DEEP & HOLD 1/8" BELOW SURFACE OF CONCRETE)
- ▲ ¾" x 4" PREFORMED FILLER, EXTEND FULL LENGTH OF ABUTMENTS BETWEEN EDGES OF SLAB.
- ★ B513 BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE IT HAS TAKEN ITS INITIAL SET. EMBED BAR 1'-0".
- PILE SPACING MEASURED AT BASE OF ABUTMENT BODY.
- PIPE UNDERDRAIN WRAPPED (6-INCH), SLOPED 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SCREEN AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 2. RODENT SCREEN TO BE INCLUDED IN THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH.

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STATE PROJECT NUMBER

5978-00-74

### **BILL OF BARS** EAST ABUTMENT

# 1,360 LB (COATED) 2,150 LB (UNCOATED)

BAR MARK	NO. REQ'D.	LENGTH	BENT	COAT	LOCATION
B501	41	14-2	Х		BODY -VERT STIRRUP
B502	4	7-10	Х		BODY - VERT STIRRUP AT ENDS
B403	10	2-3			BODY - VERT 2 PER PILE
B404	5	28-0	Х		BODY - SPIRAL - 1 PER PILE
B605	11	34-10			BODY - HORIZ F.F. & TOP
B606	7	24-10			BODY - HORIZ B.F.
B807	7	10-0			BODY - HORIZ B.F END
B808	7	11-2	Х		BODY - HORIZ B.F END
B509	22	4-11	Х		BODY - VERT TOP
B410	3	21-6			BODY - HORIZ TOP
B511	2	4-10			BODY - VERT END
B512	2	4-7			BODY - VERT END
B513	34	2-0		Х	BODY - VERT DOWELS
B514	9	16-2	Х	Х	WING 1- VERT STIRRUP
B515	2	4-10		Х	WING 1- VERT F.F.
B516	6	13-3		Х	WING 1- HORIZ F.F.
B617	6	11-7		Х	WING 1 - HORIZ B.F.
B618	2	12-2		Х	WING 1- HORIZ TOP
B619	13	9-10	Х	Х	WING 1 - VERT TOP
B420	5	9-7		Х	WING 1 - HORIZ F.F. & B.F TOP
B621	2	9-7		Х	WING 1 - HORIZ TOP
B522	10	15-8	Х	Х	WING 2 - VERT STIRRUP
B523	6	11-9		Х	WING 2 - HORIZ F.F.
B624	6	13-5		Х	WING 2 - HORIZ B.F.
B625	2	12-3		Х	WING 2 - HORIZ TOP
B626	13	9-10	Х	Х	WING 2 - VERT TOP
B427	5	9-7		Х	WING 2 - HORIZ F.F. & B.F TOP
B628	2	9-7		Х	WING 2 - HORIZ TOP

NOTES: THE FIRST DIGIT OF A BAR MARK SIGNIFIES THE BAR SIZE.

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.





B501, B514, B522

BAR	'\\\/	
MARK	vv	п
B501	2-2	4-7
B514	2-11	4-10
B522	2-11	4-7



B502



B509, B619, B626

<i>N</i> ' 'Н'	
-2 1-6	
-2 4-6	
-2 4-6	
	N'         'H'           -2         1-6           -2         4-6           -2         4-6





8



LAYOUT : EAST ABUTMENT DETAILS



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#### 5978-00-74

# **BILL OF BARS SUPERSTRUCTURE**

#### 20,900 LB (COATED)

BAR MARK	NO. REQ'D.	LENGTH	BENT	COAT	LOCATION
S501	62	7-11	Х	Х	ENDS OF DECK
S502	62	3-6	Х	Х	ENDS OF DECK
S503	20	45-11		Х	SLAB - TOP - LONGIT.
S504	4	47-6		Х	SLAB - TOP - LONGIT. AT EDGES
S505	47	34-10		Х	SLAB - TOP - TRANS.
S506	69	34-10		Х	SLAB - BOTTOM - TRANS. & AT ABUT.
S1107	59	42-0		Х	SLAB - BOTTOM - LONGIT.
S1108	2	47-6		Х	SLAB - BOTTOM - LONGIT EDGES
S609	48	6-0		Х	RAIL POSTS - INTERIOR
S610	16	4-7	Х	Х	RAIL POSTS - CORNERS
S611	32	12-0	Х	Х	RAIL POSTS

NOTES: THE FIRST DIGIT OF A THREE DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

![](_page_37_Figure_11.jpeg)

![](_page_37_Figure_12.jpeg)

CAMBER SPAN AS SHOWN TO PROVIDE FOR THEORETICAL DEADLOAD DEFLECTION AND FUTURE PLASTIC FLOW. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB OR CENTER LINE FOLLOW THIS PROCEDURE: TOP OF SLAB ELEVATION AT FINAL GRADE -SLAB THICKNESS +CAMBER

+FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (COMPUTED BY CONTRACTOR) =TOP OF SLAB FALSEWORK ELEVATION.

8

NO	DATE	PEVISION		PV		
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		STATE OF WISCONS	N			
		DEPARTMENT OF TRANSPO	RTATION			
STRUCTURE B-56-244						
		DRAWN BY	PLANS PTB CK'D.	PMF		
6		SHEET 8	OF 9			
3	UPER					

E. ABUT.

18" RUBBERIZED MEMBRANE WATERPROOFING. (HORIZONTAL)

▲ <sup>3</sup>⁄<sub>4</sub>" x 4" PREFORMED FILLER, EXTEND FULL LENGTH OF ABUTMENTS BETWEEN EDGES OF SLAB.

★ DIMENSION IS NORMAL TO THE C/L OF SUBSTRUCTURE UNITS.

\*\* SEE SHEET 4 OR SHEET 6 FOR PLACEMENT OF ABUTMENT BARS.

![](_page_38_Figure_0.jpeg)

#### 5978-00-74

#### LEGEND

- (1) W6x25 WITH 1<sup>1</sup>/<sub>8</sub>" x 1<sup>1</sup>/<sub>2</sub>" HORIZONTAL SLOTS ON EACH SIDE OF POST FOR BOLT NO. 6. CUT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POST VERTICAL. PLACE POSTS NORMAL TO GRADE LINE.
- 0 plate  $1\%'_4$  x11 $3\%''_4$  x1'-8" with  $17_{16}$  dia. Oversized holes for anchor bolts no. 3. Weld to no. 1 as shown.
- (3) ASTM A449 1½" DIA. ANCHOR BOLTS WITH NUT AND HARDENED WASHER (ALL GALVANIZED). 5 REQ'D. PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO. 2. CHAMFER TOP OF BOLTS BEFORE THREADING. AT POSTS ON CONCRETE SLAB SUPERSTRUCTURES WHERE THE SLAB THICKNESS IS > 16" USE 1'-3" LONG.
- (4)  $\frac{5}{3}$ "x11"x1'-8" ANCHOR PLATE (GALVANIZED) WITH  $1\frac{3}{16}$ " DIA. HOLES FOR ANCHOR BOLTS NO. 3.
- (5) TSS 5x4x0.25 STRUCTURAL TUBING. ATTACH TO NO. 1 WITH NO. 6.
- (5A) TSS 5x5x0.25 STRUCTURAL TUBING. ATTACH TO NO. 1 WITH NO. 6.
- (6)  $\frac{1}{2}$ " DIA. A325 SLOTTED ROUND HEAD BOLT WITH NUT,  $\frac{3}{16}$ "x15%" x15%" MIN. WASHER, AND LOCK WASHER (2 REQ'D. AT EACH RAIL TO POST LOCATION).
- (9) SPLICE SLEEVE FABRICATED FROM  $\frac{1}{4}$ " PLATE. PROVIDE "SLIDING FIT".
- (10) <sup>3</sup>/<sub>8</sub>"x3<sup>5</sup>/<sub>8</sub>"x2'-4" PLATE. 2 PER RAIL. USED IN NO. 5 & 5A.
- (10A) ¾"x25/%"x2'-4" PLATE USED IN NO. 5, ¾"x35/%"x2'-4" PLATE USED IN NO. 5A. 2 PER RAIL.
- (1) <sup>7</sup>/<sub>8</sub>" DIA. A325 ROUND HEAD BOLT WITH NUT, WASHER, AND LOCK WASHER. USE <sup>15</sup>/<sub>16</sub>"x1<sup>1</sup>/<sub>4</sub>" LONGIT. SLOTTED HOLES IN PLATE NO. 10A. AT FIELD JOINTS AND <sup>15</sup>/<sub>16</sub>"x2<sup>1</sup>/<sub>4</sub>" MIN. LONGIT. SLOTTED HOLES AT EXP. JOINTS IN PLATE NO. 10A. PROVIDE <sup>15</sup>/<sub>16</sub>" DIA. ROUND HOLES IN TUBES NO. 5 AND NO. 5A.

#### **GENERAL NOTES**

1. BID ITEM SHALL BE "RAILING TUBULAR TYPE M" WHICH INCLUDES ALL ITEMS SHOWN.

 RAIL POST AND BASE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50. HOLLOW RAILING STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE B OR C WITH A CERTIFIED FY=50 KSI. ANCHOR PLATES AND SPLICE TUBE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 36.

3. THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL % TURN.

4. RAILS SHALL BE CONTINUOUS OVER A MINIMUM OF THREE (3) POSTS WITHOUT SPLICES WHERE POSSIBLE.

5. ENDS OF TUBE SECTIONS SHALL BE SAWED. GRIND SMOOTH EXPOSED EDGES. ALL CUT ENDS SHALL BE TRUE AND SMOOTH.

6. WELD IS THE SAME ON BOTH FLANGES. FLANGE WELD DOES NOT REQUIRE MAGNETIC PARTICLE TESTING.

 FILL BOLT SLOT OPENINGS IN POST SHIMS AND PLATE NO. 2 AND CAULK AROUND PERIMETER OF PLATE NO. 2 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. STEEL POST SHIMS MAY BE USED UNDER POSTS WHERE REQ'D. FOR ALIGNMENT.

8. POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

9. ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, ALL STEEL RAILING POSTS & STEEL TUBING SHALL BE GIVEN A NO. 6 BLAST CLEANING BY S.S.P.C. SPECIFICATIONS.

10. THIS RAILING MEETS NCHRP REPORT 350 EVALUATION CRITERIA FOR TEST LEVEL 4 (TL-4).

NO.	DATE		BY			
		IN RTATION				
STRUCTURE B-56-244						
		PLANS PTB CK'D.	PMF			
٦	TUBUL	SHEET 9	OF 9			
	Т	YPE M				

#### EARTHWORK-MARSHALL ROAD

	AREA (S	F)	INCREME	NTAL VOL (	CY)	CUMMULATIVE	OLUME (	CY)	
STATION	CUT	FILL	CUT NOTE 1	FILL NOTE 2	FILL (25%) NOTE 3	CUT 1.00 NOTE 1	FILL	FILL (25%) NOTE 3	MASS ORDINATE NOTE 4
10+00	0	0	21	22	28	21	22	28	-7
10+25	46	48	42	46	58	63	68	85	-22
10+50	46	48	52	52	65	115	120	150	-35
10+98	52	51	25	24	30	140	144	180	-40
11+25	52	51	0	0	0	140	144	180	-40
	COLU	MN TOTALS	5 = 140	144	180				-40

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
3 - FILL 25%	(UNEXPANDED FILL)*1.25
4 - MASS ORDINATE	CUT + ROCK (10%) +REDUCED MARSH (60%) - FILL (25%)

PROJECT NO: 5978-00-74		HWY: MARSHALL ROAD	COUNTY: SAUK	EARTHWORK		
	FILE NAME : S:\PROJECTS\W11648 WISDOT - MARSHALL ROAD BRIDGE P-56-0916 SAUK CO\SHEETSPLAN\	DETAILS\59780074_EARTHWORK TABLE.DWG	PLOT DATE :	5/17/2022 3:45:33 PM	PLOT BY :	COLTON PEPER

FILE NAME : S:\PROJECTS\W11648 WISDOT - MARSHALL ROAD BRIDGE P-56-0916 SAUK CO\SHEETSPLAN\DETAILS\59780074\_EARTHWORK TABLE.DWG

![](_page_39_Figure_5.jpeg)

PLOT SCALE	:	1" = 1'

![](_page_40_Figure_0.jpeg)

![](_page_41_Figure_0.jpeg)

# Notes

![](_page_43_Picture_0.jpeg)

# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov

![](_page_43_Picture_4.jpeg)