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	STATE PROJECT NUMBER TA 5079-00-70				
DESIGN DA					
LIVE LOAD:					-
5.56 DESIGN LOADING: INVENTORY RATIN OPERATING RATIN 9" RT WISCONSIN STANI	HL-9 G: RF = IG: RF = DARD PERM	93 - - MIT VEHICLE (WI	5-SPV): 250 (KIPS	;)	
STRUCTURE IS DES SURFACE OF 20 PC	GIGNED FOI DUNDS PER	R A FUTURE WEA SQUARE FOOT.	RING		
MATERIAL PROPE	RTIES:				
9.50 CONCRETE MASON 3.24 SUPERSTRU ALL OTHER -	NRY: CTURE ——			f' _c = 4,000 PS f' _c = 3,500 PS	i i
BAR STEEL REINFO GRADE 60 –	RCEMENT			f _y = 60,000 PS	SI
54W" PRESTRESSE CONCRETE M STRANDS: 0	D GIRDERS MASONRY- .6" DIA. WI	5: ITH ULTIMATE TE	NSILE STRENGTH	f' _c = 8,000 PS H OF 270,000 P.S.I.	a.
PILING STEEL				f _y = 50,000 PS	SI
FOUNDA	TION	DATA			
BEDROCK. SEAT PR ESTIMATED ESTIMATED (PREBORED DEPTH **THE FACTORED DESIGN IS THE REC RESISTANCE FACT(AND FIN REBORED P 34'-0" PRE 47'-0" PRE IS AND PILI AXIAL RESI QUIRED DR DR OF 0.5 (VILES BY TAPPING BORED AND 36'- BORED AND 49'- E LENGTHS MAY ISTANCE OF PILES IVING RESISTANU USING MODIFIED	INTO PLACE. O" PILES AT S. AE O" PILES AT N. AI VARY ALONG EA G IN COMPRESSIO CE MULTIPLIED B GATES TO DETE	BUT. BUT. CH ABUT.) DN USED FOR IY A RMINE PILE	
CAPACITY.					
RI KSO					
The HYDR		C DATA	TRA	FFIC DATA	
Contraction of the second seco	J C.F.S. F.P.S. 776.57 Y AREA = 4 AREA = 18 OVERTOPI TICAL COD EQUENCY: F.S.	₩20 SQ. FT. .3 SQ. MI. PING = N/A Æ = 8	A.A.D.T (A.A.D.T (DESIGN S	2026) = 90 2046) = 100 IPEED = 40 MPH	
V ₂ = 3.92 F. 14.5 HW ₂ = EL. 7	P.S. 72.09				
201711.1	CONSUL JULIA ZE (608) 35	TANT DESIGN C HNER 5-8878	DNTACT: BRID AAR (608	D GE OFFICE CONTACT ON BONK) 261-0261	<u>:</u>
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1	NO.	DATE	REVISION	BY	'
	Ø) MS	FUNDING PLA FUNDING PLA 1702 PANRATZ 5 (608) 242-5	ARCHITECTURE SURVEYING ANNING ENVIRONMENTAL 5TREET, MADISON, WI 53704 5664 www.msa-ps.com A Professional Services, Inc.	5
		ST/ DEPARTM	ATE OF WISCONS ENT OF TRANSPO	SIN DRTATION	
RAWINGS:	ACCEPTI	ED	URES DESIGN ENGI	NEER DATE	-
QUANTITIES & NOTES	STF	RUCTURE	B-32-25	0	
PLOKATION NT NT DETAILS	COLINIZ	CTH	G OVER COON C	REEK	
	DESIGN	LA C	ROSSE	WASHINGTO	N
	AASHTO	ED DESIGN	IN SPECIFICATION	PLANS	
	BY	US CK'D	JZ BY	EKK CK'D DS	-
RE				SHEET TOP 14	



TOTAL ESTIMATED QUANTITIES

8

ITEM NUMBER	BID ITEM	UNIT	WEST ABUT.	EAST ABUT.	SUPER	TOTAL
203.0260.01	REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS B-32-50	EACH	-	-	-	1
206.1001.01	EXCAVATION FOR STRUCTURES BRIDGES B-32-250	EACH	-	-	-	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	-	-	-	0
502.0100	CONCRETE MASONRY BRIDGES	CY	-	-	-	0
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	-	-	0
502.3210	PIGMENTED SURFACE SEALER	SY	-	-	-	0
503.0155	PRESTRESSED GIRDER TYPE I 54W-INCH	LF	-	-	-	0
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	-	-	-	0
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	-	-	-	0
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	-	-	-	0
506.4000.01	STEEL DIAPHRAGMS B-32-250	EACH	-	-	-	0
511.1200.01	TEMPORARY SHORING B-32-250	SF				
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	-	-	-	0
550.0010	PRE-BORING UNCONSOLIDATED MATERIALS	LF	-	-	-	0
550.1120	PILING STEEL HP 12-INCH X 53 LB	LF	-	-	-	0
606.0300	RIPRAP HEAVY	CY	-	-	-	0
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	-	-	-	0
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	-	-	-	0
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	-	-	-	0
645.0120	GEOTEXTILE TYPE HR	SY	-	-	-	0
	NON-BID ITEMS					
	PREFORMED FILLER	SIZE				1⁄2" & 3⁄4"

- BRIDGE - ROADWAY SUPERSTRUCTURE APPROACH

PROFILE GRADE LINE - CTH G



TYPICAL SECTION THRU ABUTMENT

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

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GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

- BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
- THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.
- BEVEL EXPOSED EDGES OF CONCRETE ³/₄" UNLESS OTHERWISE NOTED.
- THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES B-32-250" SHALL BE THE EXISTING GROUNDLINE.
- AT THE BACK FACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TYPE A. ALSO EXCLUDED IS THE "BASE AGGREGATE DENSE 1 1/4-INCH"
- EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT
- THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES.
- ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.
- PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE EXPOSED TOP OF DECK AND TO THE VERTICAL AND HORIZONTAL SURFACES OF THE PAVING NOTCHES AT ABUTMENT DIAPHRAGMS.
- PIGMENTED SURFACE SEALER TO BE APPLIED TO THE INSIDE FACES, THE TOP FACES, AND THE ENDS OF PARAPETS.
- THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE TYPE HR TO THE EXTENT SHOWN ON SHEET 1 AND THE ABUTMENT DETAILS
- THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE 54W" PRESTRESSED GIRDER DETAILS" SHEET.
- ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO USGS NAVD 88 (2012 ADJUSTED). BENCHMACK REFERENCES AT THE PROJECT SITE WERE SET BY THE CONSULTANT USING GPS TECHNOLOGY.



ABUTMENT BACKFILL DIAGRAM

- = OUT TO OUT OF ABUTMENT BODY INCLUDING WINGS (FT)
- = AVERAGE ABUTMENT FILL HEIGHT (FT)
- EF = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND
- 1.00 FOR TON BID ITEMS) = (L)(3.0')(H) + (L)(0.5)(1.5H)(H)
- V_{CF} V_{CY} = V_{CF}(EF)/27
- = V_{CY}(2.0)
- V_{TON}

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