GENERAL NOTES: STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS:

REFERENCE SHALL BE MADE TO THE FOLLOWING STANDARD BRIDGE DRAWINGS:

GSD-1-19	DATED	1/15/21
BR-2-15	DATED	1/21/22
RB-1-55	DATED	7/19/13
VPF-1-90	REVISED	7/20/18
EXJ-4-87	REVISED	1/19/18

DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO 9th EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATION" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020 AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

DESIGN LOADING:

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PEDESTRIAN LIVE LOAD: 90 POUNDS PER SQUARE FOOT.

DESIGN DATA:

CONCRETE, QC/QA CLASS QC2 - COMPRESSIVE STRENGTH 4500 PSI (SUPERSTRUCTURE) CONCRETE, QC/QA CLASS QC2 - COMPRESSIVE STRENGTH 4500 PSI (PARAPET) CONCRETE, CLASS QC1 - COMPRESSIVE STRENGTH 4000 PSI (SUBSTRUCTURE) REINFORCING STEEL - ASTM A615 OR A996, GRADE 60, MINIMUM YIELD STRENGTH 60000 PSI STRUCTURAL STEEL - ALL NEW STEEL, ASTM A709 GRADE 50, YIELD STRENGTH 50000 PSI. EXISTING STEEL, ASTM A570, YIELD STRENGTH 33000 PSI

DECK PROTECTION METHOD:

EPOXY COATED REINFORCING STEEL

21/2" CONCRETE COVER 21/2" MICRO-SILICA MODIFIED CONCRETE OVERLAY (OVER EXISTING)

MONOLITHIC WEARING SURFACE:

IS ASSUMED, FOR DESIGN PURPOSES, TO BE 1 INCH THICK.

EXISTING STRUCTURE VERIFICATION:

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO C&MS SECTIONS 102.05, 105.02 AND 513.04.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

EXISTING BRIDGE PLANS:

EXISTING BRIDGE PLANS CAN BE VIEWED AT ODOT DISTRICT 8 OFFICE.

PROPOSED WORK:

THE FOLLOWING IS A GENERAL SUMMARY OF THE PROPOSED WORK FOR THIS STRUCTURE: INCIDENTAL ITEMS ARE NOT INCLUDED.

- 1. WIDEN EXISTING ABUTMENTS TO ACCOMODATE A 7'-O" PEDESTRIAN WALKWAY ON THE WEST SIDE.
- 2. ADD NEW CAP AND COLUMN PIERS TO ACCOMODATE ONE ADDITIONAL BEAM LINE. X ADD NEW ROSKER AND BOLSTER BEARINGS TO SUPPORT NEW BRAMLINE. 4. ADD ONE CONTINUOUS STEEL BEAM LINE. PAINT NEW STRUCTURAL STEEL THE SAME
- COLOR AS THE EXISTING STEEL DOWN INTO EXISTING DECK ON THE WOST SIDE AND WHICH DESK FOR NEW PEDESTRIAN WALKWAY.
- INSTALL WARKWAT.
- REMOVE EXISTING VANDAL PROTECTION FENCE ON THE WEST SIDE OF THE BRIDGE.
- PARAPET, EDGE OF DECK WITH AN EPOXY-URETHANE.
- 9. SEAL AND SIDEWALK WITH NON-EPOXY SEALER.

INSPECTION OF EXISTING STRUCTURAL STEEL:

THE ENGINEER WILL VISUALLY INSPECT ALL EXISTING BUTT-WELDED SPLICES AND/OR TOP FLANGE MOMENT FILLET WELDS TO ENSURE THE WELDS, PLATES AND BEAMS OR GIRDERS ARE FREE OF DEFECTS AND CRACKS. IF NEĆESSARY, REMOVE ALL DECK SLAB HAUNCH FORMS IMMEDIATELY ADJACENT TO SUCH WELDS THAT MAY INTERFERE WITH THE ENGINEER'S INSPECTION. THE INSPECTION WILL NOT TAKE PLACE UNTIL THE TOP FLANGES ARE CLEANED ACCORDING TO 511.10, BUT IT WILL BE DONE BEFORE THE DECK SLAB REINFORCEMENT IS INSTALLED. THE DEPARTMENT WILL PAY FOR THE COST ASSOCIATED WITH THIS INSTALLED. THE DEPARTMENT WILL PATFOR THE COST ASSOCIATED WITH THIS INSPECTION WITH ITEM 511, BRIDGE DECK CONCRETE. THE ENGINEER WILL REPORT ALL CRACKS FOUND TO THE OFFICE OF CONSTRUCTION ADMINISTRATION, BRIDGE CONSTRUCTION SPECIALIST, ALONG WITH SPECIFIC INFORMATION ON LOCATION OF THE CRACKS, LENGTH, AND DEPTH SO AN EVALUATION AND REPAIR OR REPLACEMENT RECOMMENDATION CAN BE MADE.

ITEM 202, PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN:

$\overbrace{}$ A. THIS WORK CONSISTS OF THE REMOVAL OF PORTIONS OF THE CONCRETE PIER CAPS, ABUTMENT CURSISIS OF THE REMOVAL OF FORTIONS OF THE CONCRETE FIER CAPS, ABUTMENT CURTAIN WALLS, AND VANDAL PROTECTION FENCE ON THE WIDENED SIDE OF THE BRIDGE. THE PROVISIONS OF ITEM 202 APPLY EXCEPT AS SPECIFIED BY THE FOLLOWING NOTES. PERFORM WORK CAREFULLY DURING DECK REMOVALS TO PROTECT PORTIONS OF SUCH SYSTEMS THAT ARE TO BE SALVAGED AND INCORPORATED INTO THE PROPOSED STULTURE. THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE RAM TYPE OF EQUIPMENT IS PROHIBITED. SUBMIT CONSTRUCTION PLANS ACCORDING TO CMS 501.05. ANY STRUCTURAL MEMBERS THAT ARE DAMAGED DURING CONCRETE REMOVAL WILL BE SPOT PAINTED THE SAME COLOR AS THE EXISTING AT NO COST TO THE PROJECT.

UBSTRUCTURE CONCRETE REMOVAL: REMOVE CONCRETE BY MEANS OF APPROVED

PNEUMATIC HAMMERS EMPLOYING POINTED AND BLUNT CHISEL TOOLS. HYDRAULIC HOE-RAM TYPE HAMMERS WILL NOT BE PERMITTED. THE WEIGHT OF THE HAMMER SHALL NOT BE MORE THAN 35 POUNDS FOR REMOVAL WITHIN 18 INCHES OF PORTIONS TO BE PRESERVED. OUTSIDE THE 18 INCH LIMIT, THE CONTRACTOR MAY USE HAMMERS NOT EXCEEDING 90 POUNDS UPON THE APPROVAL OF THE ENGINEER. DO NOT PLACE PNEUMATIC HAMMERS IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE.

- C. REMOVE CONCRETE TO A ROUGH SURFACE. LEAVE THE EXISTING REINFORCING STEEL, IF REQUIRED IN THE PLANS, IN PLACE. INSTALL DOWEL BARS IF SPECIFIED. PRIOR TO CONCRETE PLACEMENT ABRASIVELY CLEAN JOINT SURFACES AND EXISTING EXPOSED REINFORCEMENT TO REMOVE LOOSE AND DISINTEGRATED CONCRETE AND LOOSE RUST. THOROUGHLY CLEAN THE JOINT SURFACE AND EXPOSED REINFORCEMENT OF ALL DIRT. DUST, RUST OR OTHER FOREIGN MATERIAL BY THE USE OF WATER, AIR UNDER PRESSURE, OR OTHER METHODS THAT PRODUCE SATISFACTORY RÉSULTS. EXISTING REINFORCING STEEL DOES NOT HAVE TO HAVE A BRIGHT STEEL FINISH, BUT REMOVE ALL PACK AND LOOSE RUST. THOROUGHLY DRENCH EXISTING CONCRETE SURFACES WITH CLEAN WATER AND ALLOW TO DRY TO A DAMP CONDITION BEFORE PLACING NEW CONCRETE.
- D. MEASUREMENT & PAYMENT: THE DEPARTMENT WILL MEASURE THE QUANTITY OF REMOVALS ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES OF REMOVALS AT THE CONTRACT PRICE FOR ITEM 202, PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN.

ITEM 601 - CRUSHED AGGREGATE SLOPE PROTECTION. AS PER PLAN:

THE THICKNESS FOR CRUSHED AGGREGATE SLOPE PROTECTION SHALL BE 1'-O" MINIMURAL/S15 THE EXISTING STONE MATERIAL SHALL BE REUSED AND PLACED AS SHOWN ON SHEET ACCORDING TO 601.06 AND PLACED ONLY IN AREAS WHERE NEEDED OR AS DIRECTED BY THE ENGINEER. ADDITIONAL MATERIAL AND FILTER FABRIC WILL BE NECESSARY. THE ESTIMATED QUANTITY IS PER SQUARE YARD AND IS CALCULATED BASED ON AN ESTIMATED REPAIR AREA OF 48 SQUARE YARDS.

PILE DRIVING:

THE MINIMUM RATED ENERGY OF THE HAMMER USED TO INSTALL THE PILES SHALL BE (1) FOOT-POUNDS. ENSURE THAT STRESSES IN THE PILES DURING DRIVING DO NOT EXCEED (2) POUNDS PER SQUARE INCH.

DECK PLACEMENT ASSUMPTIONS:

THE FOLLOWING ASSUMPTIONS OF CONSTRUCTION MEANS AND METHODS WERE MADE FOR THE ANALYSIS AND DESIGN OF THE SUPERSTRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF THE FALSEWORK SUPPORT SYSTEM WITHIN THESE PARAMETERS AND WILL ASSUME RESPONSIBILITY FOR SUPERSTRUCTURE ANALYSIS FOR DEVIATION FROM THESE DESIGN ASSUMPTIONS. AN EIGHT WHEEL FINISHING MACHINE WITH A MAXIMUM WHEEL LOAD OF 2.2 KIPS. A MINIMUM OUT-TO-OUT WHEEL SPACING AT EACH END OF THE MACHINE OF 103". A MAXIMUM SPACING OF OVERHANG FALSEWORK BRACKETS OF 48 IN. A MAXIMUM DISTANCE FROM THE CENTERLINE OF THE FASCIA GIRDER TO THE FACE OF THE SAFETY HANDRAIL OF 65".

THE DESIGN SHOWN ON THE PLANS FOR TEMPORARY SUPPORT OF EXCAVATION IS ONE REPRESENTATIVE DESIGN THAT MAY BE USED TO CONSTRUCT THE PROJECT. THE CONTRACTOR MAY CONSTRUCT THE DESIGN SHOWN ON THE PLANS OR PREPARE AN ALTERNATE DESIGN TO SUPPORT THE SIDES OF EXCAVATION. IF CONSTRUCTING AN ALTERNATE DESIGN FOR TEMPORARY SUPPORT OF EXCAVATION, PREPARE AND PROVIDE PLANS IN ACCORDANCE WITH C&MS 501.05. THE DEPARTMENT WILL PAY FOR THE TEMPORARY SUPPORT OF EXCAVATION AT THE CONTRACT LUMP SUM PRICE FOR COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN. THE DEPARTMENT WILL NOT MAKE ADDITIONAL PAYMENT FOR PROVIDING AN ALTERNATE DESIGN.

PILE DESIGN LOADS (ULTIMATE BEARING VALUE):

THE ULTIMATE BEARING VALUE IS 59.0 KIPS PER PILE FOR THE REAR ABUTMENT AND FORWARD ABUTMENT PILES. THE ULTIMATE BEARING VALUE IS 146 KIPS PER PILE FOR THE PIER 1, PIER 2 AND PIER 3 PILES.

REAR AND FORWARD ABUTMENT, 12" DIA. CIP PILES 10 PILES 25 FEET LONG, ORDER LENGTH PER ABUTMENT 1 DYNAMIC LOAD TESTING FOR REAR ABUTMENT

PIER 1 AND 3, 12" DIA. CIP PILES 8 PILES 20 FEET LONG, ORDER LENGTH PER PIER

PIER 2, 12" DIA. CIP PILES 4 PILES 15 FEET LONG, ORDER LENGTH 1 DYNAMIC LOA<u>D TESTING FOR PIER 2</u>

ITEM 513 - STRUC

ALL REQUIREMENTS FIELD FABRICATED DEPARTMENT WILL BE PRE-QUALIFIED MATERIAL ACCEPTA TO 513.06 OR SUP COMPLETION OF F DRAWINGS FOR CO ENGINEER MAY CON ASSISTANCE. IF DELIVERED MATERIA WITH MICROFILM,

THE FOLLOWING MOUNTING ARMO GBOSSFRAMES. THE PROPOSED STR STRUCTURAL STEEL <u> ITEM 519 – PATCH</u>

> PRIOR TO THE SUP PLACING PATCHING THE EXPOSED REIN WATER BLASTING W CONTAINMENT, OR

THE PATCH IS BEIN EXISTING CONCRET TO BELOW THE EX. CLEAN PER ITEM 5

DECK SLAB PAY Q

THE ESTIMATED QU SLAB THICKNESS, A HAUNCH. THE ESTIN WIDTH FOUAL TO NECESSARY TO PL

THE HAUNCH THICK SURFACE OF THE D THICKNESS. THE AN THE HAUNCH QUANT

<u>ITEM 516 - JACKIN AS PER PLAN:</u>

THIS WORK CONSIS THE PIER CAPS UNL IN THESE PLANS.

IF. DURING THE JA SEPARATION OF TH THE STRUCTURE IS AND INSTALL SUPP AND SUBMIT A MET ALL BEAMS THAT S ACCORDANCE WITH EPOXY INJECTION SEATED AT ALL CO PLAN TO THE ENGL ENSURE FULL SEAT

THE DEPARTMENT W

THE DEPARTMENT

ITEM 516 - JACKING

STANDARD ABBRE

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CPP.	-	COR
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TURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN:	270
5 OF 513 APPLY TO SHOP FABRICATED MEMBERS. PERFORM WORK FOR MEMBERS ACCORDING TO ITEM 513, EXCEPT AS MODIFIED HEREIN. THE NOT REQUIRE THE CONTRACTOR PERFORMING FIELD FABRICATION TO AS SPECIFIED IN SUPPLEMENT 1078. SUBMIT A WRITTEN LETTER OF ANCE, 501.06, TO THE ENGINEER. PROVIDE SHOP DRAWINGS ACCORDING PLY THE ENGINEER WITH "AS-BUILT" DRAWINGS MEETING 513.06 AFTER WELD FABRICATION. THE ENGINEER WILL REVIEW THE SUBMITTED NCURRENCE WITH THE FINAL AS-BUILT CONDITION. IF NECESSARY, THE WITACT THE OFFICE OF STRUCTURAL ENGINEERING FOR TECHNICAL HE ENGINEER IS SATISFIED WITH THE "AS-BUILT" DRAWINGS AND THE ALS, SUPPLY A COPY OF THE DRAWINGS, STAMPED AND DATED, ALONG	
TO THE OFFICE OF STRUCTURAL ENGINEERING FOR RECORD PURPOSES. MEMBERS ARE INCLUDED IN THIS ITEM: PROPOSED EXPANSION JOINT DR, AND PROPOSED END CROSS FRAMES, AND INTERMEDIATE	DATE 7/25/21 FILE NUMBER 7957
RUCTURAL STEEL WILL BE PAINTED THE SAME COLOR AS THE EXISTING	REVIEWED SAN STRUCTURE 1 3107
ING CONCRETE STRUCTURES, AS PER PLAN:	
RFACE CLEANING SPECIFIED IN C&MS 519.04 AND WITHIN 24 HOURS OF MATERIAL, BLAST CLEAN ALL SURFACES TO BE PATCHED INCLUDING FORCING STEEL. ACCEPTABLE METHODS INCLUDE HIGH-PRESSURE WITH OR WITHOUT ABRASIVES IN WATER, ABRASIVE BLASTING WITH VACUUM ABRASIVE BLASTING.	DESIGNED DRAWN JAT JAT CHECKED REVISED KDC
NG MADE TO SMOOTH THE SURFACE OF THE BARRIER. EVEN THOUGH THE TE IS NOT DISINTEGRATED, REMOVE THE FACE OF THE EXISTING BARRIER ISTING REINFORCING STEEL (4″ MIN.). REINFORCE WITH WIRE AND BLAST 19 BEFORE POURING THE CLASS QC5 CONCRETE.	
UANTITIES:	
IANTITY OF DECK SLAB CONCRETE IS BASED ON A CONSTANT DEPTH AS SHOWN, PLUS THE QUANTITY OF CONCRETE THAT FORMS EACH BEAM MATE ASSUMES A CONSTANT BEAM HAUNCH DEPTH OF 2" AND A HAUNCH THE TOP FLANGE WIDTH. DEVIATE FROM THIS HAUNCH THICKNESS AS ACE THE DECK SURFACE AT FINISHED GRADE.	
NESS WAS MEASURED AT THE CENTERLINE OF THE BEAM FROM THE NECK TO THE BOTTOM OF THE TOP FLANGE MINUS THE DECK SLAB REA OF ALL EMBEDDED STEEL PLATES HAS BEEN DEDUCTED FROM FITY IN ACCORDANCE WITH 511.23.	L NOTES HAM-74-0230 DVER I-74
NG AND TEMPORARY SUPPORT OF SUPERSTRUCTURE,	AL NOTES HAM-74-02 3 OVER I-74
TS OF TEMPORARILY SUPPORTING THE EXISTING STRUCTURES TO CUT DER THE EXISTING BEARINGS IN ORDER TO EXTEND THE CAPS AS SHOWN SUBMIT CONSTRUCTION PLANS IN ACCORDANCE WITH CMS 501.05.	GENER BRIDGE NO C.R. 23
CKING OPERATIONS, CRACKING OF THE CONCRETE SUPERSTRUCTURE, HE CONCRETE DECK FROM THE STEEL STRINGERS, OR OTHER DAMAGE TO VISUALLY OBSERVED, IMMEDIATELY CEASE THE JACKING OPERATION ORTS TO THE SATISFACTION OF THE ENGINEER. ANALYZE THE DAMAGE HOD OF CORRECTION TO THE ENGINEER FOR APPROVAL. EPOXY INJECT SEPARATE FROM THE DECK FOR THE DISTANCE OF THE SEPARATION IN CMS 512.07. THE DEPARTMENT WILL NOT PAY FOR THE COST OF THIS OR OTHER REQUIRED REPAIRS. THE BRIDGE BEARINGS SHALL BE FULLY INTACT AREAS. IF FULL SEATING IS NOT ATTAINED, SUBMIT A REPAIR NEER. THE DEPARTMENT WILL NOT PAY FOR THE COSTS TO ING ON BEARINGS.	BR
WILL MEASURE THIS WORK ON A LUMP SUM BASIS.	
WILL PAY FOR THE ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR G AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN.	
<u>VIATIONS:</u>	42
TER TO CENTER STRUCTION JOINT RUGATED PLASTIC PIPE AR	R。23-1 113712
IETER H FACE AL TIING	
FACE WARD ABUTMENT IMUM	HAM
MUM MUM R FACE	S2/S15
SIDE DIAMETER FORMED EXPANSION JOINT FILLER R ABUTMENT CING/SPACES	56 66
ICAL	\square

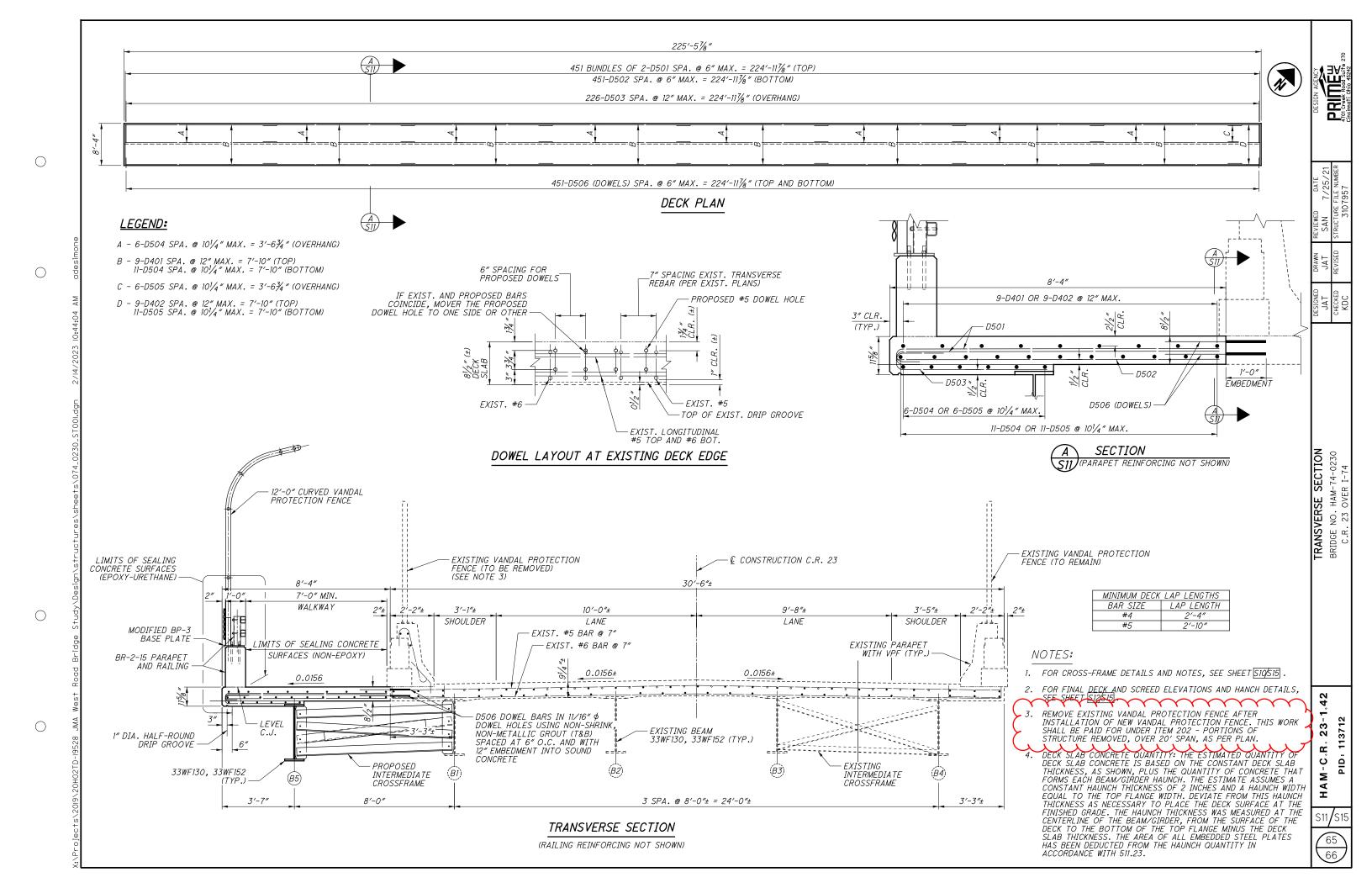
			ESTIMATED QUANTITIES					CALC.	DATE	CHECKED	DATE
ТЕМ	ITEM EXT.	UNIT	DESCRIPTION	ABUTMENTS	PIERS	SUPERSTR.	GENERAL	HM TOTAL	01/28/22 PART. 01/SAF/0	BTJ PART. 02/SAF/O	01/31/22 SHEET REF
_1V/		UNIT		ADUTMENTS	TIENS	501 ENSTIN.	GENERAL	TOTAL	T	T	SHELT NEI
)2	11203	LUMP	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LS			LS	S2/S15
03	11101	LS	COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN				LS			LS	S2/S15
03	21100	CY	UNCLASSIFIED EXCAVATION	42	73			115		115	327 310
7	00500		12% CAST IN DUACE DEINEODOED CONCRETE DUES DRIVEN	200	160			760		360	
07 07	00500 00550	FT FT	12" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN 12" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED	200 250	160 220			360 470		470	
\frown		\sim		\sim	\sim	$\langle \gamma \gamma \gamma \gamma \rangle$	\sim	m	$\frown \frown $	\sim	
09	10000	LB	EPOXY COATED REINFORCING STEEL	3904	8185	23221		35310		35310	
510	10000		DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	50	42	914	<u> </u>	1006	uu	1006	$ \mathbf{\mu} $
5/10	10000			50	72	014		1000		1000	
	34448		CLASS QC2/CONCRETE WITH QX/QX, BRIDDE DECKY	\sim	\sim		\sim				\sim
511 511 入	34450 \$1012		CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET) CLASS QCIXCOXCRPTE WITH QC/QA, DEC ABONE BOOXINGS		1 21	9		9	h	9	
511	44112	CY	CLASS QCI CONCRETE WITH QC/QA, ABUTMENT NOT INCLUDING FOOTING	19				19		19	$ \prod_{i=1}^{n} $
511	46512	СҮ	CLASS QCI CONCRETE WITH QC/QA, FOOTING	13	20			33		33	
E10	10050	CV				170		175		175	
512 512	10050 10100	SY SY	SEALING OF CONCRETE SURFACES (NON-EPOXY) SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	46	76	175		292		292	
512	33000	SY	TYPE 2 WATERPROOFING	6	, 0			6		6	
513	10201	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN			9586		9586		9586	S2/S15
513 513	10240 20000	LB EACH	STRUCTURAL STEEL MEMBERS, LEVEL 2 WELDED STUD SHEAR CONNECTORS			35024 843		35024 843		35024 843	
\sim				\sim	\sim		\sim		\sim		h
514	00050	SF	SURFACE PREPERATION OF EXISTING STRUCTURAL STEEL			30		30		30	
514	00056	SF	FIELD PAINTING STRUCTURAL STEEL, PRIME COAT			30		30		30	
514 514	00060 00067	SF SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			2900 2900		2900 2900		2900 2900	
514	00504	MNHR	GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL			1		2300		2300	
514	10000	EACH	FINAL INSPECTION REPAIR			3		3		3	
\mathcal{N}	\mathcal{N}	\mathcal{L}		m	X	LLL	\mathcal{M}	\dots	m	<u> </u>	$\overline{\mathcal{M}}$
516	11211	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN	17				17		17	S10/S15
516 516	13600 46000	SF EACH	1" PREFORMED EXPANSION JOINT FILLER BEARING DEVICE, BOLSTER	20	1	25		45		45	
516	46200	EACH	BEARING DEVICE, BOLSTER	2	2			4		4	
516	47001	LUMP	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	_			LS			LS	
\sim	\sim	\sim		\sim	\sim	$\uparrow \uparrow \uparrow \uparrow$	\sim				\sim
517	75122	FT	RAILING (CONCRETE PARAPET WITH TWIN STEEL TUBE RAILING AND VANDAL PROTECTION FENCE)			238		238		238	
+	21200		POROUS BACKFILL WITH GEOTEXTILE FABRIC	14				14		14	μ
518 518	40000	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	23				23		23	
518	40010	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	31				31		31	
19	60000	LS	SPECIAL - PATCHING CONCRETE STRUCTURE			LS				LS	S2/S15
23	20000	EACH	DYNAMIC LOAD TESTING	1	1			2		2	
				· · ·							
501	20000	SY	CRUSHED AGGREGATE SLOPE PROTECTION	48				48		48	
07	30070	<i>гт</i>				224		224		224	
07	39930	FT	VANDAL PROTECTION FENCE, 12' CURVED, COATED FABRIC			224		224		224	
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	NUMBER TOTAL	LENGTH	WETOUT	- 님 DIMENSIONS							
MARK			WEIGHT	TYPE	A	В	С	D	E	R	INC
					ABUTM	IENTS					
A501	44	6'-10"	314	STR	ADOTIM						
A502	12	14'-0"	175	STR							
A503	24	8'-3"	207	STR							
A504	4	3'-7"	15	13	1'-0"	1'-2"	1'-2"	1'-0"			
A505	50	3′-10″	200	STR							
A601 A602	16 28	7′-11″ 6′-7″	190 277	2 STR	3′-8″	11″	3'-8"				
A602 A603	16	8'-3"	198	2	2'-10"	2'-11"	2'-10"				
A604	28	6'-8"	280	2	2-10	5'-10"	2 -10				
A605	20	1'-6"	54	STR	10	5 10					
A606	29	11'-8″	350	2	5′-6″	1'-0"	5′-6″				
A607	40	8'-7"	516	1	1'-0"	7'-9"					
			0.0		, ,	, ,					
	SL	B-TOTAL	2,776								
					FOOT	INGS					
F601	20	5′-3″	158	STR							
F602	16	10'-3"	246	STR							
F603	28	11′-6″	484	2	2'-0"	7′-10″	2'-0"				
F604	24	6'-8"	240	2	2'-0"	3'-0"	2'-0"				
F605	36	11'-2″	604	2	2′-6″	6′-6″	2'-6″				
F606	32	7′-6″	360	STR							
F607	26	10'-2"	397	2	2'-6″	5′-6″	2'-6"				
F608	14	11'-0"	231	STR							
		I IB-TOTAL	2,720								
	36	B-TOTAL	2,120								
		44.04			PARAF			1			
R501	4	4'-2"	17	1	10″	3'-5"	73/ //				
R502 R503	4	6′-1″ 6′-3″	25 13	37	3′-5″ 4′-10″	2'-11"	7 ¾ ″ 0′-5″				
R503 R504	2 22	12'-9"	293	19 2	4 -10 6'-2"	1'-4" 8"	6'-2"				
R505	316	7'-10"	2582	30	1'-6"	8″	2'-5"	2'-3"			
R506	24	9'-7"	240	2	4'-7"	0'-8"	4'-7"				
R507	4	9'-3"	39	19	7'-10"	1'-4"	0'-5"				
R508	8	12'-3″	102	19	10′-10″	1'-4″	0′-5″				
R509	8	2'-8"	22	STR							
R510	20	5′-4″	111	STR							
R511	32	30'-0"	1001	STR							
R512	8	2'-11‴	24	STR							
R513	8	5'-2"	43	STR							
R514	128	6'-2"	823	STR							
R515 R516	4	7'-3" 4'-7"	30	STR STR							
R516 R517	4	6'-2"	19 13	STR							
R518	4	9'-2"	38	STR							
R519	8	12'-2	102	STR	\sim	\sim	\frown	\sim	\frown	\sim	\frown
		IB-TOTAL	*			LUDED WI	TH ITEM S	517 FOR P	AYMENT		
			В	ARRIE	R EXTENS	SION PARA	PETS				
R520	12	19′-8″	246	STR							
R521	4	17'-11"	75	STR					1		
R522	4	8'-3"	34	STR							
R523	4	19′-8″	82	STR							
	4 SR	2'-7"				1'-3″					
R524	OF	TO	219	1	1'-6″	ΤΟ					0'-1 1
	15	4'-4"				3'-0"					
R525	12	2'-7"	32	16	2'-0"						
	SL	IB-TOTAL	688	1							

	NUMBER			ы Ш		DI	MENS	
MARK	TOTAL	LENGTH	WEIGHT	TYPE	A	В	С	D
						-	•	
					PIE	RS		
SP401	2	392′-10″	525	27	0'-4"	2'-6″	15′-11″	
SP402	1	439′-3″	293	27	0'-4″	2'-6″	17′-11″	
P501	12	7'-11″	99	STR				
P502	42	8'-3"	361	2	2'-11"	2'-8″	2'-11"	
P503	48	9′-5″	472	38	2'-8″			
P504	12	4'-7"	57	STR				
P505	12	12'-2″	152	24	2'-8″	4'-0"		
P801	30	11'-4″	908	1	2'-10"	8'-9"		
P802	30	6'-10"	547	STR	2 10			
1002	50	0 10	011	511				
P901	20	20'-2"	1371	16	18′-11″			
P902	30	10'-4"	1054	1	1'-7″	9'-0"		
P903	10	22'-2″	754	16	20′-11″			
		 IB-TOTAL	6,593					
	50	DIUTAL	0,000		DEC	ן רא		
D401	72	30'-0"	1443	STR				
D407 D402	.9	4'-0"	24	STR				
0402		7 0	27	511				
D501	902	8'-7"	8075	16	8'-0"			
D502	451	8'-0"	3763	STR				
D503	226	4'-4"	1021	16	3′-9″			
D504	136	30'-0"	4255	STR				
D505	17	10'-8″	189	STR				
D506	902	4'-0"	3763	STR				
	SL	IB-TOTAL	22,533					

NOTES:

1. ALL REINFORCING STEEL SHALL BE EPOXY COATED.

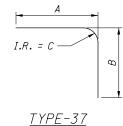
2. BAR SIZE: THE BAR SIZE IS INDICATED IN THE BAR MARK. THE MARK BEGINS WITH ONE OR TWO LETTERS THAT IDENTIFY THE BAR LOCATION. THE NEXT ONE OR TWO DIGITS INDICATE THE BAR SIZE, AND THE REMAINING TWO DIGITS ARE THE SEQUENCE NUMBER.

EXAMPLE: S501

- *S = SUPERSTRUCTURE BAR*
- 5 = #5 BAR
- 01 = BAR SEQUENCE NUMBER 1

3. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS NOTED OTHERWISE.

- 4. "STR" IN THE BAR TYPE COLUMN INDICATES A STRAIGHT BAR.
- 5. INC INDICATES THE LENGTH INCREMENT FOR SERIES BARS.
- 6. SR INDICATES A SERIES OF BARS.



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