				SHEET N	IUM.				PA	RT.			ITEM	GRAND			SEE	LATED (X CKED (X
	61	893	895	896 1243				01/IMS/PV 02/	′IMS/B 03/ R	IMS/C	04/S<2/0 05/SAF/O	ITEM	EXT	TOTAL	UNIT	DESCRIPTION	SHEET NO.	CALCULAT XXX CHECKET XXX
																DRAINAGE]
			7	0.6	+			5.2	2	2.4		602	20000	7.6	CY	CONCRETE MASONRY	+-	_
		64,083						64,083				605	11100	64,083	FT	6" SHALLOW PIPE UNDERDRAINS		_
		863						863 28,947				605 605	13300 14000	863 28,947	FT FT	6" UNCLASSIFIED PIPE UNDERDRAINS 6" BASE PIPE UNDERDRAINS		_
		28,947		1,500				1,500				611	00400	1,500	FT	4" CONDUIT, TYPE E		-
																		_
\bigcirc		1,092 2,099						1,092 2,099				611 611	00900 01500	1,092 2,099	FT FT	6" CONDUIT, TYPE B 6" CONDUIT, TYPE F	-	_
	100	2,033	1,517					1,495	1	22		611	04400	1,617	FT	12" CONDUIT, TYPE B	+-	-
			243					188	ί	55		611	04600	243	FT	12" CONDUIT, TYPE C]
			34						;	34		611	05200	34	FT	12" CONDUIT, TYPE F, 707.05 TYPE C OR 707.21		_
			1,273		+			1,273				611	05900	1,273	FT	15" CONDUIT, TYPE B	+	-
			674					634		40		611	06100	674	FT	15" CONDUIT, TYPE C		
			520	111				325	3	06		611	06700	631	FT	15" CONDUIT, TYPE F, 707.05 TYPE C OR 707.21		
\bigcirc				16 16				16 16				611 611	13400 21100	16 16	FT FT	30" CONDUIT, TYPE B 48" CONDUIT, TYPE C	+	⊣ ≻
_												011	21100	10	1 1			⊢
			30					30				611	52300	30	FT	19" X 30" CONDUIT, TYPE A, 706.04		N M A
			160					78		82		611	96600	160	FT	CONDUIT, BORED OR JACKED, TYPE B, 12"	-	│ ⋛
	200		1,182					744 200	4	138		611 611	96600 97000	1,182 200	FT FT	CONDUIT, BORED OR JACKED, TYPE B, 15" SLOTTED DRAIN, TYPE 1, 12"	+-	∤
			6	2				8				611	98150	8	EACH	CATCH BASIN, NO. 3		٦ ا
																		┨ .
Ī			2	1				2				611 611	98180 98300	2	EACH EACH	CATCH BASIN, NO. 3A CATCH BASIN, NO. 5		⊢ Ar
4			3	'	1			3				611	98410	3		CATCH BASIN, NO. 8		₩
7	-		5					3		2		611	98450	5	EACH	CATCH BASIN, NO. 2-2A		_ Ш
5	,			1	1			1				611	98470	1	EACH	CATCH BASIN, NO. 2-2B		U Z U
2	i L		1		+					1		611	98570	1	EACH	CATCH BASIN, NO. 2-5	+	⊣ 8
Ş			5					3		2		611	98840	5	EACH	INLET, NO. 2-A-6		
5			3					2		1		611	98850	3	EACH	INLET, NO. 2-A-8		_
00/			5	35	+			4 35		1		611 611	98860 99101	5 35	EACH EACH	INLET, NO. 2-A-10 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1, AS PER PLAN	47	-
66/2				33				33				OII	33101	33	LACII	INCET, NO. 3 FOR SINGLE SLOTE BARNIER, THE BI, AS FER FEAR	+	-
برا	1			4				4				611	99114	4	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, WITH BLOCK OUT		_
0				5	+			4 4		1		611 611	99115 99574	4 5	EACH EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN , WITH BLOCK OUT MANHOLE, NO. 3	885	4
Ď.	<u> </u>			5				5		'		611	99654	5	EACH	MANHOLE ADJUSTED TO GRADE	+-	-
7	2	37						37				611	99710	37	EACH	PRECAST REINFORCED CONCRETE OUTLET		
2																		
Ö					+												+-	-
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			601	605	605	605	611	611	611							
			HLIM	30″	UNDERDRAIN				旦							
					ROR				CONCRETE							
			CONCRETE BLOCK MAT TYPE 1 UNDERLAYMENT	UNDERDRAIN,	PE		ω	LL.	ONO			[,	[,]	[ONL Y)	6" CAP CAP
o			N X X	ERC		18 J	TYPE	YPE	3 0		ONL	ONL	ONL	ONL	NO	1 7
ž			LOC		PIPE	I P I	<u> </u>	⊢	REINFORCED OUTLET		H N	N	SS	. O O	D N	1 7
ட	STATION	TO STATION	B			ASE	LIN	LIN	10H		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	6" WYE ATI0	6″ R0§ ATI	X SEN	X X X	6. CAF
ш				PIPE	FIE	" B,	CONDUIT,	CONDUIT,	N N		RM,	RM,	Z W	RM, E	6, RM/	i
~			NCF	M C	SSI	6" BASE PIPE UNDERDRAIN, 18"	55		<u>~</u>		6" TEE (INFORMATION	6" WYE (INFORMATION	6" CROSS (INFORMATION (6" X 90° BEND (INFORMATION (6" X 45° BEND (INFORMATION (i
					UNCLASSIFIED		.9	9	.AS.		=		ŧ	-		
			TIED	SHALL	Š				PRECAST							
				9	.9											
			SY	FT	FY	FY	FY	FY	EACH		EACH	EACH	EACH	EACH	EAC	EACH
E1 LID	FCC - 0.7	TO		20.4				4							1	+ ,
51-UD 52-UD	566+97 569+72	569+60 573+38	0.2	264		415		17	1		1			1	1	1
53-UD	569+68	576+99	0.2	731		413		15			1 1			1		1
54-UD	569+72	577+43		771				9							1	1
55-UD	569+69	577+46		777				8							1	1 1
56-UD	569+69	576+00		631				14						1		1
57-UD	569+69	576+99		730				11			1					1
58-UD	569+69	577+03	0.2			731		17	1			1			11	1
187-UD	573+57	577+03				347		8						1		1
188-UD	573+57	577+00		345			37						1			1
59-UD	577+04	581+99	0.2			495		16	1			1			1	1
60-UD	577+00	582+75		575			24							1		1
61 UD	F77.44	F00 : 47		200			24							1		+ .
61-UD	577+44 577+47	580+43 580+46		299 299			24	8						1	1	1
62-UD 63-UD	577+00	581+99		499				15						1	ı	1
64-UD	577+04	582+03	0.2	433		500		13	1			1		'	1	1
65-UD	580+44	582+44	0.2	200		300		4	'			'			1	1
66-UD	580+47	582+47		200				8							1	1
67-UD	593+40	587+35	0.2			539		9	1					1		1
68-UD	582+00	587+31		522				15							1	1
69-UD	582+04	587+31	0.2	526				27	1			1			1	1
70-UD	582+46	584+94		248				4							1	1
71.110	500.40	504.07		0.40				•								<u> </u>
71-UD 72-UD	582+48 584+95	584+97 587+33		249				9							1	1 1
73-UD	584+98	587+32		234				9							1	1
74-UD	597+33	601+10 RAMP K	0.2	376	10			18	1				1		'	2
75-UD	597+24	601+35		412				13								1
76-UD	597+12	599+14		202				7							1	1
77-UD	597+07	599+16		209				3							1	1
78-UD	597+01	601+47		399	48		12				1					2
79-UD	596+80	598+00		116												1
80-UD	598+35	601+26		276	13		17						1			2
91_LID	597+72	601+56	0.2			386		8	1					1		1
81-UD 82-UD	597+12	600+94	U.2	176		300		7							1	1
83-UD	599+18	601+44		182	45			3					1		<u>'</u>	2
84-UD	600+43	601+32		102	90			24					· ·		2	1
35-UD	601+07	601+41			36			7							1	†
86-UD	603+09	604+94	0.2			183		13				1			1	1
87-UD	603+07	604+95		187			15							1		1
38-UD	603+12	604+98		132	55			5			1					2
89-UD	603+14	604+98		134	53			2			1					2
90-UD	603+18	605+02		187			23							1		1
91-UD	603+47	605+04		160								1				1
91-UD 92-UD	603+22	605+06		191			22				1	'				1
93-UD	603+29	605+07	0.2	186			22	18	1		'	1			1	1
94-UD	607+04	608+58	0.2	100		153		15	1			1			1	1
	607+00	608+58	7.2	157				15				· ·		1	,	1
	607+01	607+19			18			7							1	1
95-UD		608+58		133	24			2			1					2
95-UD 96-UD	607+01			157				15						1		1
95-UD 96-UD 97-UD 98-UD	607+02	608+58				154		16	1			1			1	1
95-UD 96-UD 97-UD 98-UD 99-UD	607+02 607+06	608+58	0.2			10 1			'			1				
95-UD 96-UD 97-UD 98-UD	607+02		0.2	127		10 1		7	'			1			1	1
95-UD 96-UD 97-UD 98-UD 99-UD	607+02 607+06	608+58	0.2	127		101			'			1			1	1
5-UD 6-UD 17-UD 8-UD 9-UD	607+02 607+06	608+58	0.2	127								1			1	1

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100-UD

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51-UD

SUB-SUMMARY

UNDERDRAIN

MUS-70-10.49

				601	605	605	605	605	611	611	611							
REF NO.		STATION	I TO STATION	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	☐ 6" SHALLOW PIPE UNDERDRAIN, 30"	7 6" UNCLASSIFIED PIPE UNDERDRAIN	6" BASE PIPE UNDERDRAIN, 18"	6″ SHALLOW PIPE UNDERDRAIN, 24″	H 6" CONDUIT, TYPE B	H 6" CONDUIT, TYPE F	PRECAST REINFORCED CONCRETE		6" TEE (INFORMATION ONLY)	6" WYE (INFORMATION ONLY)	E CROSS (INFORMATION ONLY)	6" X 90° BEND (INFORMATION ONLY)	6" x 45° BEND (INFORMATION ONLY)	6" 6" CAP (INFORMATION ON Y)
		RAMP J		SY	FI	FI	FI	FI	FI	FI	EACH		EACH	EACH	EACH	EACH	EACH	EACH
000 110		500.00	000.07															
226-UD 227-UD		598+00 597+76	602+23 602+86.5		411 512					10						1		1
EET OB		001710	002 100.0		0.12											·		
		RAMP K																
		RAMF K																
228-UD		602+80	604+96		213					22							1	1
229-UD 230-UD		602+81 604+67	604+65 605+12		170			32		10								1
231-UD		NOT USED	003112					32		10								<u> </u>
232-UD		605+14	605+46				31			10								1
		RAMP L																
233-UD 234-UD		607+17 607+18	609+17 608+48		70		128			27 9			1			1		1
218-UD		584+50	586+00		128					9						'		
		RAMP N																
236-UD		618+26	622+13		372					10								1
237-UD		616+75	622+12		0.7			524		10								1
238-UD 239-UD		622+14 623+15	623+14 625+35		87 206					10								1 1
		RAMP O																
240-UD		617+08	618+75				165			10								1
241-UD		618+90	621+38		235					10								1
TOTALS	THIS	SHEET			2404		324	556		169			1	0	0	3	1	13
									75.0	705								
TOTALS	FROM	SHEET	888	2	12083	53	6856		350	305	10		14	11	0	19	17	50
OTALS	FROM	SHEET	889	2.4	12437	392	3903		174	449	11		8	9	4	13	28	57
OTALS	FROM	SHEET	890	0.6	13831	75	8414		276	394	2		13	6	1	12	28	55
OTALS	FROM	SHEET	891	1.2	12961	0	8717		97	444	5		10	11	0	11	29	41
OTALS	FROM	SHEET	892	1.8	9811	343	733		195	338	9		9	2	4	11	7	43
																		-
																		-
																		-
							1											-
		D. = D	SENERAL SUMMAR	Y 8.0	63527.0	863.0	28947.0	556	1092	2099	37		54.0	39.0	9.0	69.0	110.0	259

SUB-SUMMARY

UNDERDRAIN

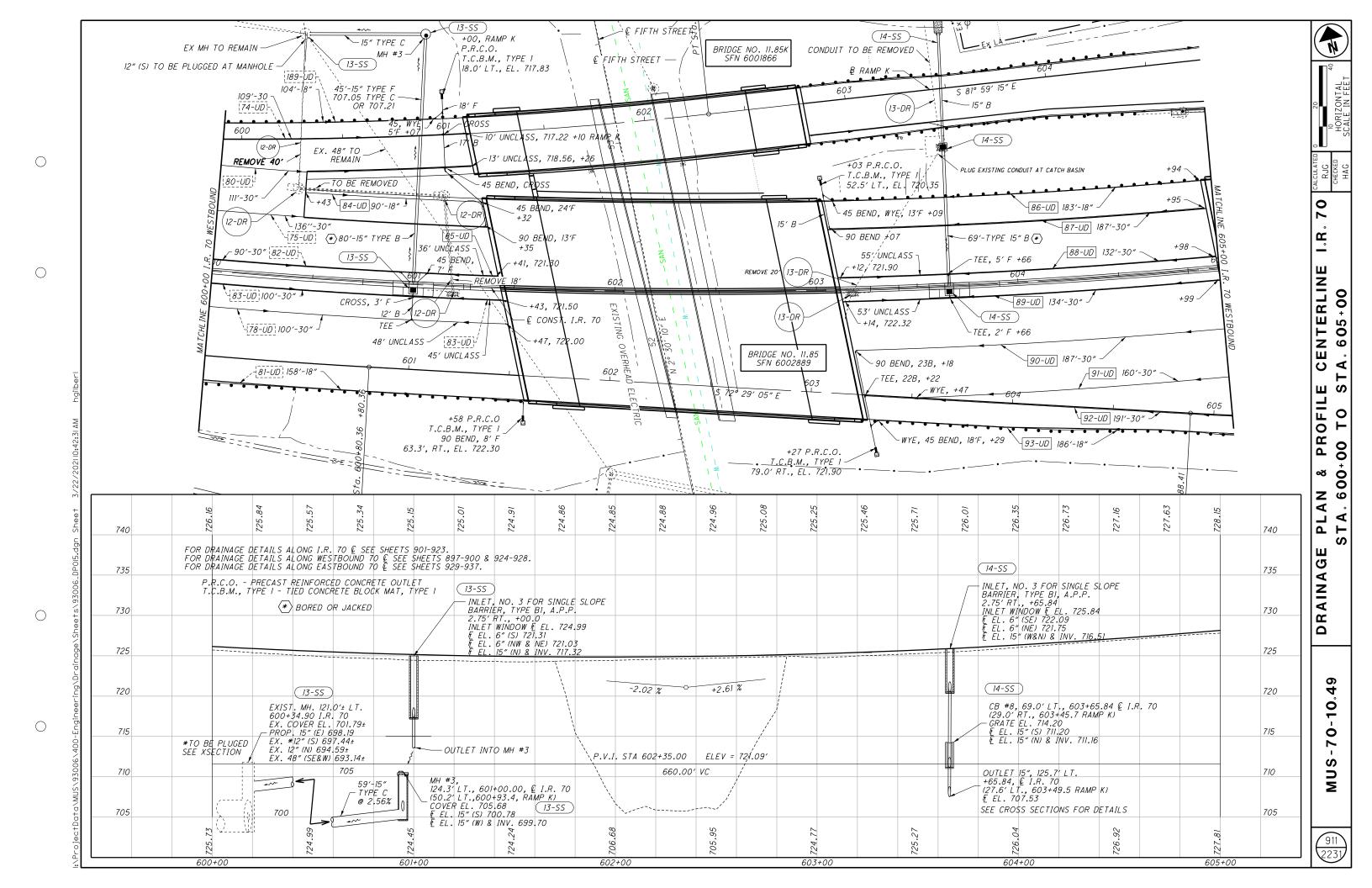
MUS-70-10.49

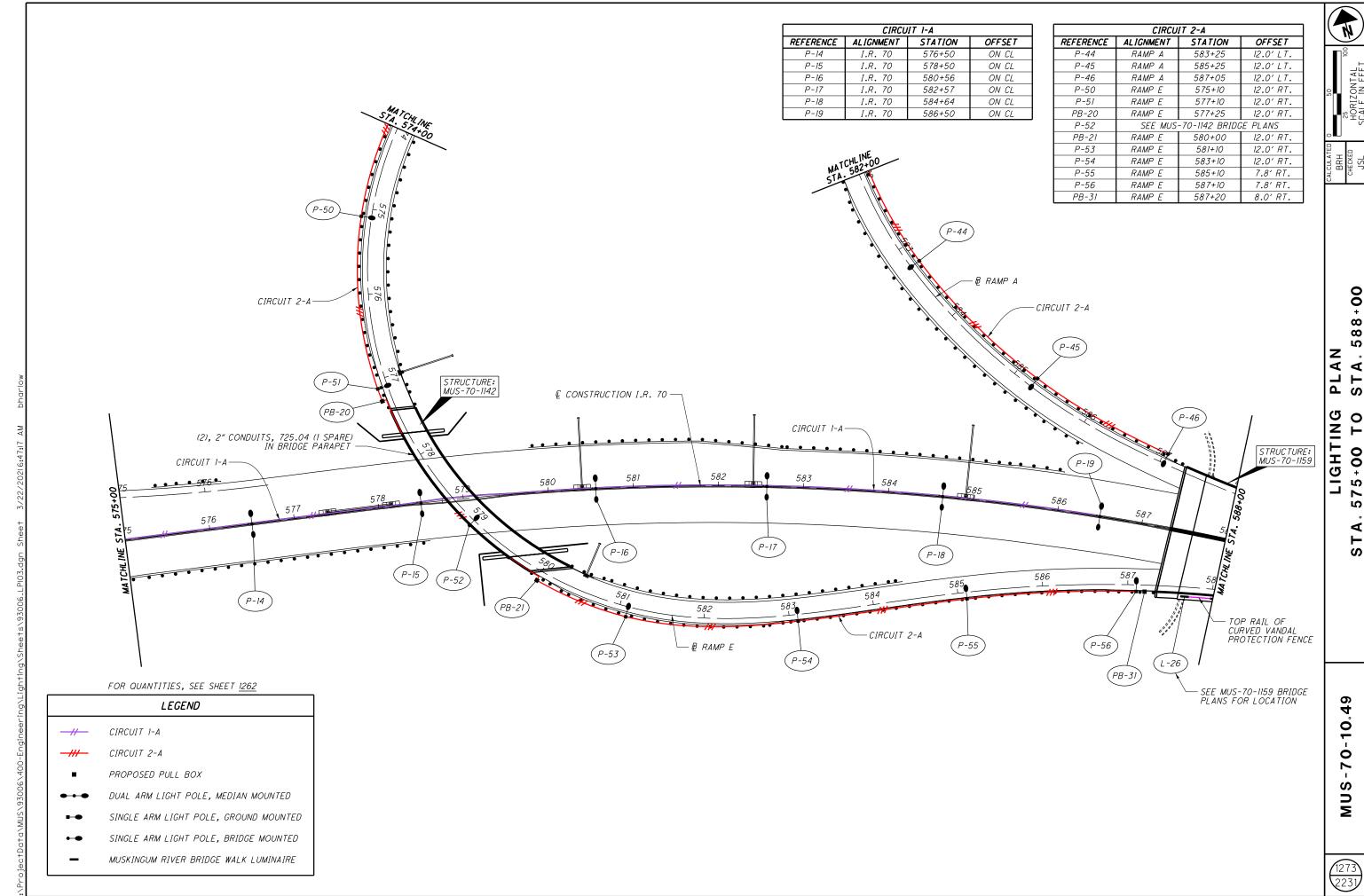
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93006SN002
TORRY DESCRIPTIONS
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DD/S+r:10+1res
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/90026/SIM/C+CU+C
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ABUT.	PIERS	CUDED	GENERAL			PART.			ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET
ADUI.	PIERS	SUPER.	GENERAL	01/IMS/PV	02/IMS/BR	03/IMS/CV	04/\$<2/07	05/SAE/O T	I I E IVI	EXT	TOTAL	UNIT	DESCRIPTION	NO.
													STRUCTURE OVER 20 FOOT SPAN (MUS-70-1089)	
			LS		LS				202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	3
			506		506				202	22900	506	SY	APPROACH SLAB REMOVED	
			LS		LS				503	11100	LS		COFFERDAMS AND EXCAVATION BRACING	
			LS		LS				503	21301	LS		UNCLASSIFIED EXCAVATION, AS PER PLAN	3
15 , 211	6 , 979	340,129			362,317				509	10000	362,317	LB	EPOXY COATED REINFORCING STEEL	
978	752				1,730				510	10000	1,730	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	
		1,071			1,071				511	21522	1,071	CY	CLASS OC2 CONCRETE WITH OC/OA, SUPERSTRUCTURE	
		336			336				511	34450	336	CY	CLASS OC2 CONCRETE WITH OC/OA, BRIDGE DECK (PARAPET)	
	49				49				511	43212	49	CY	CLASS OCI CONCRETE WITH OC/OA, PIER	
104					104				511	45712	104	CY	CLASS OCI CONCRETE WITH OC/QA, ABUTMENT	
30		1,663			1,693				512	10050	1,693	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	
	76				76				512	33000	76	SY	TYPE 2 WATERPROOFING	
					LS				513	10060	LS		STRUCTURAL STEEL MEMBERS, LEVEL 3	
		18,984			18,984				513	20000	18,984	EACH	WELDED STUD SHEAR CONNECTORS	
			LUMP		LS				513	95020	LS		STRUCTURAL STEEL, MISC.:EXTERNAL POST TENSIONING	3
		3,674			3,674				514	00060	3,674	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT	
		3,674			3,674				514	00066	3,674	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT	
		2			2				514	10000	2	EACH	FINAL INSPECTION REPAIR	
									=					
		186			186				516	11210	186	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL	
			6		6				516	13600	6	SF	I" PREFORMED EXPANSION JOINT FILLER	
			95		95				516	14600	95	FT	STRUCTURAL JOINT OR JOINT SEALER, MISC.: HOT APPLIED JOINT SEALER WITH SLEEPER SLAB	52
			190		190				516	31011	190	FT	2" DEEP JOINT SEALER, AS PER PLAN	3
		20			00				510	11000		5400	5. 457.0450.0 ST.1010.0 WITH HITSOHILL AND LISTS AND LOAD STATE AND SOCIETY HOW TO A 7. 4.4770.	
		28			28	1			516	44200	28	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (10"x12"x3.0473")	
		42 14			42 14	1			516	44200	42	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (15"x36.6967")	
		14	1.0			-			516	44200	14 LS	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (15"x16"x3.6967")	7
			LS		LS				516	47001	L 5		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	3
		12			12				518	12201	12	EACH	SCUPPERS, INCLUDING SUPPORTS, AS PER PLAN	44
52		12			52				518 518	21200	52	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	44
198					198	 			518 518	40000	198	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
120					120	1			518 518	40000	198	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	_
120					120	1			310	40010	120	 ''	O MONTE LIN ONATED CONNOCATED FLASTIC FIFE, INCLUDING SPECIALS	
			530		530	 			526	25010	530	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15")	
			330		330				320	23010	330	31	INCINI ONCLO CONCRETE ALFROACH SEADS WITH QUY QA (1-13)	
														+
						1				 	1	1		

DESIGN AGENCY
OHIO DEPARTMENT OF
TRANSPORTATION DISTRICT 5

BRIDGE SUMMARY
BRIDGE NO. MUS-70-1089
OVER LICKING RIVER & NEWARK RD.

MUS-70-10.49 PID No. 93006

ALL QUANTITIES SHOWN BELOW HAVE BEEN CARRIED TO SHEET 1908.

ABUT.	PIERS	SUPER.	GENERAL	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET
ADOT.	FIENS	JUFEN.	DENERAL	11 - 101	EXT	TOTAL	ONT	DESCRIPTION	NO.
								ROADWAY	
			530	204	10000	530	SY	SUBGRADE COMPACTION	
								EROSION CONTROL	
			2	601	20010	2	CY	CRUSHED AGGREGATE SLOPE PROTECTION	
			52	601	21001	52	SY	CONCRETE SLOPE PROTECTION, AS PER PLAN	3
								PAVEMENT	
			89	304	20000	89	CY	AGGREGATE BASE	

DESIGN SPECIFICATIONS

DESIGN SPECIFICATIONS: THIS STRUCTURE CONFORMS TO THE 8TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2017, AND THE ODOT BRIDGE DESIGN MANUAL, 2019.

DESIGN DATA

ITEM 511 CLASS OCI CONCRETE, SUBSTRUCTURE (ABUTMENT AND FOOTING)
COMPRESSIVE STRENGTH 4000 PSI (SUBSTRUCTURE)
ITEM 511 CLASS OC2 CONCRETE, SUPERSTRUCTURE (DECK) COMPRESSIVE STRENGTH 4500 PSI (SUPERSTRUCTURE)
REINFORCING STEEL - ASTM A615 OR A996, GRADE 60 MINIMUM YIELD STRENGTH 60,000 PSI

DESIGN LOADING

DESIGN LOADING: HL-93. FUTURE WEARING SURFACE (FWS) OF 60 POUNDS PER SQUARE FOOT.

EXISTING BRIDGE PLANS MAY BE INSPECTED AND ARE PROVIDED WITH THIS PROJECT'S BIDDING DOCUMENTS.

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 CMS 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.

DECK PROTECTION METHOD

EPOXY COATED REINFORCING STEEL 21/2" CONCRETE COVER

MONOLITHIC WEARING SURFACE

MONOLITHIC WEARING SURFACE IS ASSUMED, FOR DESIGN PURPOSES, TO BE I INCH

POROUS BACKFILL WITH GEOTEXTILE FABRIC

POROUS BACKFILL WITH GEOTEXTILE FABRIC, THE THICKNESS AS DETAILED IN THIS PLAN SHALL EXTEND UP TO THE PLANE OF THE SUBGRADE, TO 1 FOOT BELOW THE EMBANKMENT SURFACE, AND LATERALLY TO THE ENDS OF THE WINGWALLS.

CONSTRUCTION SEQUENCE

SEE GENERAL NOTES FOR MAINTENANCE OF TRAFFIC NOTES AND MAINTENANCE OF TRAFFIC DETAIL SHEETS TO PLAN SEQUENCE OF OPERATIONS.

SURFACE SMOOTHNESS FOR BRIDGES AND APPROACHES

AT THE COMPLETION OF WORK FOR ALL PHASES OF CONSTRUCTION THE CONTRACTOR SHALL CONTACT THE DISTRICT 5 SMOOTHNESS CORDINATOR.

PERFORM THE FOLLOWING AS PER PROPOSAL NOTE 555:

- CLEAN, SWEEP, AND PREPARE THE FINAL DECK AND FINAL ROADWAY SURFACE.
- MEASURE, GRIND, AND RE-MEASURE THE BRIDGE AND/OR ROADWAY AS NECESSARY.
- 3. PERFORM GROOVING OF THE BRIDGE DECK.

INSPECTION FOR BATS

PRIOR TO THE START OF DEMOLITION ACTIVITIES THE CONTRACTOR SHALL INSPECT THE UNDERSIDE OF THE BRIDGE FOR THE PRESENCE OF BATS OR NESTING BIRDS. IF ANY BATS OR BIRD NESTS ARE OBSERVED THE CONTRACTOR SHALL NOTIFY NICOLE HAFER-LIPSTREU IN THE DISTRICT 5 PLANNING DEPARTMENT @ (740) 323-5103 (NICOLE.HAFERLIPSTREU@DOT.OHIO.GOV), OR, BRIAN TATMAN @ (740) 323-5191 (BRIAN.TATMAN@DOT.OHIO.GOV) PRIOR TO STARTING ANY DEMOLITION WORK.

ELASTOMERIC BEARING PADS

THE ELASTOMERIC BEARING PAD SHALL BE PLACED AT THE REAR AND FORWARD ABUMENTS AS DETAILED IN THE PLAN. THE ELASTOMER SHALL HAVE A HARDNESS OF 50 DUROMETER. THE BEARING WAS DESIGNED IN ACCORDANCE WITH SECTION 14.7.6 (METHOD A) OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. THE LONGTERM COMPRESSION PROOF LOAD TEST (AASHTO STANDARD SPECIFICATION FOR HIGHWAY BRIDGES, DIVISION II, SECTION 18.7.2.6) IS NOT REQUIRED. THE DIMENSION PROVIDED FOR THE ELASTOMERIC BEARING PAD MAY NOT REQUIRED. THE DIMENSION FAVIDED FOR THE ELASTOMERIC BEARING PAD MAY NOT REQUIRE THE CONTRACTOR TO TRIM THE ENDS OF THE BEARING PAD TO PROPERLY FIT THE SKEWED ANGLES OF THE DIAPHRAGM. HOWEVER, IF TRIMMING IS REQUIRED, THE CONTRACTOR SHALL TRIM EACH ITEM 516 ELASTOMERIC BEARING PAD, MISC., BY MECHANICAL MEANS AS APPROVED BY THE ENGINEER. MITER CUT THE ENDS SO THAT THE BEARING PADS FIT FLUSH BETWEEN ADJOINING PHASES/VERTICAL WINGWALL SURFACES. OTHERWISE, PROVIDE SHORTER BEARING PADS AND PLACE A PROPER AMOUNT OF P.E.J.F. BETWEEN ADJOINING PHASES. ALL ASSOCIATED TIME LABOR AND MATERIALS TO PERFORM THIS FIELD WORK WILL BE INCIDENTAL TO ITEM 516 ELASTOMERIC BEARING PAD, MISC.

CUT LINE CONSTRUCTION JOINT PREPARATION

THE INTENT OF THIS PLAN IS TO ALLOW THE CONTRACTOR TO PERFORM FULL DEPTH THE INTENT OF THIS PLAN IS TO ALLOW THE CONTRACTOR TO PERFORM FULL DEPTH SAW CUTS AT THE REMOVAL LINES FOLLOWED BY 1/4" SCARIFICATION TO THE REMAINING CUT LINE SURFACES. HOWEVER, AT THE CONTRACTOR'S OPTION FOR THE SUBSTRUCTURE REMOVALS, SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVALS I INCH DEEP. 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 DEFINED PROPERTY TO BENEVILLED FOR THE CONCRETE AND LOSSE AND REINFORCEMENT TO RÉMOVE 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 RESULTS. 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 CONCRETE. RE-STEEL NOT TO BE INCORPORATED IN THE PROPOSED CONCRETE SHALL BE MECHANICALLY CUT AT THE REMOVAL LINE.

ITEM 202 - PORTION OF STRUCTURE REMOVED, AS PER PLAN, (SUPERSTRUCTURE)

THIS WORK CONSISTS OF THE REMOVAL OF THE ENTIRE EXISTING SUPERSTRUCTURE AS INDICATED IN THE PLANS AND GENERAL NOTES AND THAT ARE NOT SEPARATELY LISTED FOR PAYMENT, INCLUDING THE REMOVAL OF ALL EXISTING CONCRETE DECK, PARAPETS, MEDIANS, BRIÓGE RAILINGS, SCUPPERS WITH ATTACHMENTS, EXPANSION JOÍNTS, STEEL BULB ANGLE GUTTERS, AND ALL OTHER INDIVIDUAL COMPONENTS OF THE ENTIRE EXISTING SUPERSTRUCTURE.

THE PROVISIONS OF ITEM 202 APPLY EXCEPT AS SPECIFIED BY THE FOLLOWING NOTES AND AS SHOWN IN THIS PLAN. PERFORM WORK CAREFULLY DURING DECK REMOVALS TO PROTECT PORTIONS OF SUCH SYSTEMS THAT ARE TO BE SALVAGED, I.E. THE EXISTING PIERS. THE USE OF EXPLOSIVES, HEADACHE BALLS, HOE RAM TYPE EQUIPMENT, AND TRACK HOE PULVERIZER/SHEAR/MULTI-PROCESSOR ATTACHMENTS IS PROHIBITED. SUBMIT CONSTRUCTION PLANS ACCORDING TO CMS 501.05.

PROTECTION OF TRAFFIC: THE CONTRACTOR SHALL SUBMIT PLANS FOR THE PROTECTION OF TRAFFIC (VEHICULAR, PEDESTRIAN, BOAT, ETC.) AS PER CMS 2019 501.05.B.2.

MEASUREMENT AND PAYMENT: THE DEPARTMENT WILL MEASURE THE QUANTITY OF MATERIALS 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, AS PER PLAN, (SUPERSTRUCTURE).

ITEM 202 - PORTION OF STRUCTURE REMOVED, AS PER PLAN, (SUBSTRUCTURE)

THIS WORK CONSISTS OF THE REMOVAL OF THE EXISTING SUBSTRUCTURE AS INDICATED IN THE PLANS AND GENERAL NOTES AND THAT ARE NOT SEPARATELY LISTED FOR PAYMENT. SUBMIT CONSTRUCTION PLANS ACCORDING TO CMS 501.05.

THE METHOD OF REMOVAL AND THE WEIGHT OF THE HAMMER FOR ABUTMENT REMOVAL SHALL BE APPROVED BY THE ENGINEEER. THE USE OF EXPLOSIVES, HEADACHE BALLS, AND/OR HOE-RAMS WILL NOT BE PERMITTED FOR ABUTMENT REMOVAL. RETAIN EXISTING PILES AT ABUTMENTS TO ELEVATIONS AS INDICATED IN PLANS.

THE METHOD OF REMOVAL AND THE WEIGHT OF THE HAMMER FOR PIER REMOVAL SHALL BE APPROVED BY THE ENGINEEER. THE USE OF EXPLOSIVES, HEADACHE BALLS, AND/OR HOE-RAMS WILL NOT BE PERMITTED FOR PIER REMOVAL. RETAIN EXISTING REINFORCING STEEL AT PIERS SUFFICIENT TO PROVIDE PROPER LAPPING WITH PROPOSED

MEASUREMENT AND 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. AS PER PLAN. SUBSTRUCTURE.

ITEM 202 - APPROACH SLAB REMOVED, AS PER PLAN

DESCRIPTION: THIS WORK SHALL INCLUDE THE REMOVAL OF ALL EXISTING APPROACH SLABS, ADJACENT CONCRETE CURB, AND CONCRETE MEDIAN BARRIER.

MEASUREMENT & PAYMENT: THE DEPARTMENT WILL MEASURE THE QUANTITY OF REMOVALS ON A SQ. YD. BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES OF REMOVALS AT THE CONTRACT PRICE FOR ITEM 202, APPROACH SLAB REMOVED, AS PER PLAN.

ITEM 503 - COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN

THE TEMPORARY SHEET PILING USED FOR PHASE CONSTRUCTION SHALL HAVE A MINIMUM SECTION MODULOUS OF 27 IN3/FT OF WALL.

PAYMENT TO PERFORM THE TEMPORARY SHEET PILING SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 503 - COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN AND SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK UNLESS SEPARATELY ITEMIZED IN THE PLANS.

ITEM 503 - UNCLASSIFIED EXCAVATION, AS PER PLAN

THIS ITEM SHALL CONSIST OF REMOVING MATERIALS FROM BEHIND THE EXISTING BACKWALL IN ORDER TO PERFORM ITEM 202, PORTIONS OF STRUCTURE REMOVED, AS PER PLAN. LIMITS OF THIS EXCAVATION SHALL BE LIMITED BETWEEN THE PROPOSED WINGWALLS AND EXTEND TO THE END OF THE PROPOSED APPROACH SLABS AS DETAILED.EXCAVATION AROUND PIER COLUMNS SHALL BE TO THE DEPTH OF THE TOP OF PIER FOOTINGS AND PROVIDE ADEQUATE AREA TO PERFORM THE WORK SHOWN IN THESE PLANS.

THE BACKFILL MATERIAL FOR ALL EXCAVATION BEHIND THE ABUTMENTS AND UNDER THE APPROACH SLABS SHALL BE LOW STRENGTH MORTAR BACKFILL (LSM). LSM, TYPE I SHALL CONFORM TO CMS SECTION 613 AND BE PLACED WITHIN THE LIMITS OF THE APPROACH
SLABS AND IT MAY ALSO BE USED TO CONSTRUCT THE SLOPES IN THIS SAME AREA AS LONG
AS IT IS COVERED WITH ONE FOOT OF SOIL TO MATCH EXISTING GRADE. THE AREA FOR THE
POROUS BACKFILL WITH GEOTEXTILE FABRIC SHALL BE FORMED PRIOR TO THE PLACEMENT OF THE LSM. TYPE I BACKFILL AND PLACEMENT OF THE GEOTEXTILE FABRIC SHALL BE PLACED AFTER THE LSM HAS CURED AND THE FORMS HAVE BEEN REMOVED.

PAYMENT TO PERFORM ALL THE WORK OUTLINED ABOVE SHALL BE ICLUDED IN THE LUMP SUM BID FOR ITEM 503 - UNCLASSIFIED EXCAVATION, AS PER PLAN AND SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK UNLESS SEPARATELY ITEMIZED IN THE PLANS.

ITEM 507 - 12" CAST-IN-PLACE REINFORCED CONCRETE PILES FURNISHED. AS PER PLAN

THE MINIMUM STEEL PILE WALL THICKNESS FOR THE ABUTMENT AND PIER PILES SHALL BE 0.344 INCH.

PILE DESIGN LOADS (ULTIMATE BEARING VALUE):

THE ULTIMATE BEARING VALUE IS 60 KIPS/PILE FOR THE REAR AND FORWARD ABUTMENT PILES. THE ULTIMATE BEARING VALUE IS 100 KIPS/PILE FOR PIER 1 AND PIER 2 PILES.

ABUTMENT PILES: 4 - 12" CAST-IN-PLACE PILES 49 FEET LONG, ORDER LENGTH 54 FEET PIER PILES: 5 - 12" CAST-IN-PLACE PILES 55 FEET LONG, ORDER LENGTH 60 FEET

2 - DYNAMIC LOAD TESTING ITEMS

ITEM 509 - REINFORCING STEEL, MISC.: GALVANIZED

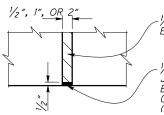
ALL REINFORCING STEEL SHALL BE GALVANIZED STEEL CONFORMING TO ASTM A767, CLASS

1. THE GALVANIZED COATED REINFORCING STEEL WILL MEET ALL OTHER REQUIREMENTS OF
509. THE GALVANIZED COATING WILL BE APPLIED AFTER REINFORCING HAS BEEN FABRICATED. IF THE GALVANIZED SURFACE BECOMES DAMGED DURING HANDLING IN THE FIELD, REPAIRS WILL CONFORM TO ASTM A780. USE BAR SUPPORTS AND TIE WIRES WHICH ARE PLASTIC COATED OR EPOXY COATED. ONLY SUPPLIERS CERTIFIED UNDER S1068 MAY PROVIDE THIS REINFORCING.

ITEM 516 - 1/2", 1", or 2" PREFORMED EXPANSION JOINT FILLER, AS PER PLAN

ALL 1/2" P.E.J.F., I" P.E.J.F, AND 2" P.E.J.F. CALLED FOR IN THE PLANS SHALL BE PREFORMED CORK JOINT FILLER (IN ACCORDANCE WITH ARTICLE 705.03). RECESS JOINT FILLER 1/2" FOR ALL JOINTS (SEE DETAIL). SEAL ALL JOINTS WITH DECK-O-SEAL GUN GRADE-JOINT SEALANT OR AN APPROVED EQUAL. THE COLOR SHALL BE STONE GRAY. APPROVED MANUFACTURER'S APPLICATION METHODS SHALL BE FOLLOWED DURING SURFACE PREPARATION AND APPLICATION FOR MAXIMUM EFFECTIVENESS.

P.O. BOX 397 HAMPSHIRE, IL 60140 PHONE: 800-542-7665



1/2", 1", or 2" PREFORMED CORK ÉXPANSION JOINT FILLER

V₂″ DECK-O-SEAL GUN GRADE JOINT SEALANT OR APPROVED EQUAL, OVER 1" PREFORMED CORK EXPANSION JOINT FILLER (IN ACCORDANCE WITH ARTICLE

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 516 $rac{1}{2}$ PEJF, A.P.P., SO. FT. AND I" PEJF, A.P.P., SO. FT., AND SHALL INCLUDE ALL LABOR, EQUIPMENT, AND INCIDENTALS REQUIRED TO COMPLETE THE WORK DESCRIBED.

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							PHASE 1	PHASE 2	PHASE 3	02/IMS/E R		EXT	TOTAL			NO.	
							0.34 LS	0.33 LS	0.33 LS	LS	202	11201	LS		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (SUPERSTRUCTURE)	3	\dashv
							0.34 LS	0.33 LS	0.33 LS	LS	202	11201	LS		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (SUBSTRUCTURE)	3	
							144	203	150	497	202	22901	497	SY	APPROACH SLAB REMOVED, AS PER PLAN	3	\dashv
							LS			LS	503	11101	LS		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN	3	
							0.34 LS	0.33 LS	0.33 LS	LS	503	21301	LS		UNCLASSIFIED EXCAVATION, AS PER PLAN	3	_
								0.5 LS	0.5 LS	LS	505	11100	LS		PILE DRIVING EQUIPMENT MOBILIZATION		\dashv
																	\Box
								422 462	49 54	471 516	507 507	00500 00550	471 516		12" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN 12" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED	3	\dashv
									-								
							65,743	90,316 9,985	59,044	215,103 9,985	509 509	10000	215,103 9,985		EPOXY COATED REINFORCING STEEL REINFORCING STEEL, MISC.: GAL VANIZED	3	_
								9,900		9,900	309	40000	9,900	LB	REINFORCING STEEL, MISC. GALVANIZED		\dashv
							89	42	58	189	510	10000	189	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT		\Box
							268	345	228	841	511	32212	841	CY	CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE		
								26	26	52	511	34461	52	CY	CLASS OC SCC CONCRETE, BRIDGE DECK (PARAPET), AS PER PLAN	64-66	36
							70	26 134	60	26 275	511 511	41012 43512	26 275		CLASS OCI CONCRETE WITH OC/OA, PIER ABOVE FOOTINGS CLASS OCI CONCRETE WITH OC/OA, ABUTMENT INCLUDING FOOTING		_]
							72	134	69	13	511	43512	13		CLASS OCI CONCRETE WITH OC/OA, ABOTMENT INCLUDING FOOTING CLASS OCI CONCRETE WITH OC/OA, FOOTING		\dashv
							55			55	511	53012	55		CLASS OC2 CONCRETE, MISC.: MEDIAN BARRIER	62	\Box
							322	360	273	955	512	10050	955	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)		\dashv
							61	62	61	184	512	10100	184		SEALING OF CONCRETE SURFACES (NON-EF-0XT) SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)		\dashv
9							116 169	149 183	98 140	363 492	516 516	13201 13601	363 492		1/2" PREFORMED EXPANSION JOINT FILLER, AS PER PLAN 1" PREFORMED EXPANSION JOINT FILLER, AS PER PLAN	3	
							103	18	17	35	516	13901	35		2" PREFORMED EXPANSION JOINT FILLER, AS PER PLAN	3	
							69	94	63	226	516	14020	226	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL		\Box
					1		69 69	89 89	57 57	215 215	516 516	14600 31011	215 215		STRUCTURAL JOINT OR JOINT SEALER, MISC.: EMSEAL WITH SLEEPER SLAB 2" DEEP JOINT SEALER, AS PER PLAN	81	
							03	03	37	213	310	31011	213	1 1	Z DELT BOSINT SCALEN, AS TENTEAN		
,							1			1	516	42000	1		ELASTOMERIC BEARING PAD, MISC.: (34'-9" x 8" x 1-1/2")	3	
					+		1	,		1 1	516 516	42000 42000	1		ELASTOMERIC BEARING PAD, MISC.: (34'-6" x 8" x 1-1/2") ELASTOMERIC BEARING PAD, MISC.: (47'-10" x 8" x 1-1/2")	3	\dashv
								1		1	516	42000	1	EACH	ELASTOMERIC BEARING PAD, MISC.: (41'-9" x 8" x 1-1/2")	3	
									1	1	516	42000	1		ELASTOMERIC BEARING PAD, MISC.: (29'-6" x 8" x 1-1/2")	3	\square
									/	/	516	42000	1	EACH	ELASTOMERIC BEARING PAD, MISC: (29'-4" x 8" x 1-1/2")	3	
							5	4	5	14	518	12000	14		SCUPPERS, INCLUDING SUPPORTS		
							23 69	38 89	15 63	76 221	518 518	21200 40000	76 221		POROUS BACKFILL WITH GEOTEXTILE FABRIC 6" PERFORATED CORRUGATED PLASTIC PIPE		\dashv
							29	43	63 31	103	518	40010	103		6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS		\dashv
							553	562	548	1,663	SPECIAL	51900100	1,663	SF	COMPOSITE FIBER WRAP SYSTEM	4	\dashv
								1	1	2	523	20000	2	EACH	DYNAMIC LOAD TESTING	3	
							100	0.45	100	507	500	05001	507	CV			\Box
							188	245	160	593	526	25001	593	SY	REINFORCED CONCRETE APPROACH SLABS (T=15"), AS PER PLAN	4	\dashv
								LS		LS	SPECIAL	53000200	LS		STRUCTURES (PRECONSTRUCTION CONDITION SURVEY)	4	
,								0.9 LS	0.1 LS		SPECIAL	53000200	LS	C.F.	STRUCTURES (VIBRATION MONITORING)	4	_
								464	460	924	SPECIAL	53000600	924	SF	STRUCTURES (AESTHETIC TREATMENT CONCRETE FORMLINER/STAIN)	4	\dashv
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DESIGN SPECIFICATIONS

DESIGN SPECIFICATIONS: THIS STRUCTURE CONFORMS TO THE 8TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2017, AND THE ODOT BRIDGE DESIGN MANUAL. 2019.

DESIGN DATA

ITEM 511 CLASS OCI CONCRETE, SUBSTRUCTURE (ABUTMENT AND FOOTING)
COMPRESSIVE STRENGTH 4000 PSI (SUBSTRUCTURE)
ITEM 511 CLASS OC2 CONCRETE, SUPERSTRUCTURE (DECK)
COMPRESSIVE STRENGTH 4500 PSI (SUPERSTRUCTURE)
REINFORCING STEEL - ASTM A615 OR A996, GRADE 60
MINIMUM YIELD STRENGTH 60,000 PSI

DESIGN LOADING

DESIGN LOADING: HL-93. FUTURE WEARING SURFACE (FWS) OF 60 POUNDS PER SQUARE FOOT.

REFERENCE

EXISTING BRIDGE PLANS MAY BE INSPECTED AND ARE PROVIDED WITH THIS PROJECT'S BIDDING DOCUMENTS.

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 CMS 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.

DECK PROTECTION METHOD

EPOXY COATED REINFORCING STEEL 21/2" CONCRETE COVER

MONOLITHIC WEARING SURFACE

MONOLITHIC WEARING SURFACE IS ASSUMED, FOR DESIGN PURPOSES, TO BE I INCH THICK.

POROUS BACKFILL WITH GEOTEXTILE FABRIC

POROUS BACKFILL WITH GEOTEXTILE FABRIC, THE THICKNESS AS DETAILED IN THIS PLAN SHALL EXTEND UP TO THE PLANE OF THE SUBGRADE, TO 1 FOOT BELOW THE EMBANKMENT SURFACE, AND LATERALLY TO THE ENDS OF THE WINWALLS.

CONSTRUCTION SEQUENCE

SEE GENERAL NOTES FOR MAINTENANCE OF TRAFFIC NOTES AND MAINTENANCE OF TRAFFIC DETAIL SHEETS TO PLAN SEQUENCE OF OPERATIONS.

SURFACE SMOOTHNESS FOR BRIDGES AND APPROACHES

AT THE COMPLETION OF WORK FOR ALL PHASES OF CONSTRUCTION THE CONTRACTOR SHALL CONTACT THE DISTRICT 5 SMOOTHNESS CORDINATOR.

PERFORM THE FOLLOWING AS PER PROPOSAL NOTE 555:

- 1. CLEAN, SWEEP, AND PREPARE THE FINAL DECK AND FINAL ROADWAY SURFACE.
- 2. MEASURE, GRIND, AND RE-MEASURE THE BRIDGE AND/OR ROADWAY AS NECESSARY.
- 3. PERFORM GROOVING OF THE BRIDGE DECK.

INSPECTION FOR BATS

PRIOR TO THE START OF DEMOLITION ACTIVITIES THE CONTRACTOR SHALL INSPECT THE UNDERSIDE OF THE BRIDGE FOR THE PRESENCE OF BATS OR NESTING BIRDS. IF ANY BATS OR BIRD NESTS ARE OBSERVED THE CONTRACTOR SHALL NOTIFY NICOLE HAFER-LIPSTREU IN THE DISTRICT 5 PLANNING DEPARTMENT @ (740) 323-5103 (NICOLE.HAFERLIPSTREU@DOT.OHIO.GOV), OR, BRIAN TATMAN @ (740) 323-5191 (BRIAN.TATMAN@DOT.OHIO.GOV) PRIOR TO STARTING ANY DEMOLITION WORK.

ELASTOMERIC BEARING PADS

THE ELASTOMERIC BEARING PAD SHALL BE PLACED AT THE REAR AND FORWARD ABUMENTS AS DETAILED IN THE PLAN. THE ELASTOMER SHALL HAVE A HARDNESS OF 50 DUROMETER. THE BEARING WAS DESIGNED IN ACCORDANCE WITH SECTION 14.7.6 (METHOD A) OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. THE LONGTERM COMPRESSION PROOF LOAD TEST (AASHTO STANDARD SPECIFICATION FOR HIGHWAY BRIDGES, DIVISION II, SECTION 18.7.2.6) IS NOT REQUIRED. THE DIMENSION PROVIDED FOR THE ELASTOMERIC BEARING PAD MAY NOT REQUIRE THE CONTRACTOR TO TRIM THE ENDS OF THE BEARING PAD TO PROPERLY FIT THE SKEWED ANGLES OF THE DIAPHRAGM. HOWEVER, IF TRIMMING IS REQUIRED, THE CONTRACTOR SHALL TRIM EACH ITEM 516 ELASTOMERIC BEARING PAD, MISC., BY MECHANICAL MEANS AS APPROVED BY THE ENGINEER. MITER CUT THE ENDS SO THAT THE BEARING PADS FIT FLUSH BETWEEN ADJOINING PHASES/VERTICAL WINGWALL SURFACES. OTHERWISE, PROVIDE SHORTER BEARING PADS AND PLACE A PROPER AMOUNT OF P.E.J.F. BETWEEN ADJOINING PHASES. ALL ASSOCIATED TIME LABOR AND MATERIALS TO PERFORM THIS FIELD WORK WILL BE INCIDENTAL TO ITEM 516 ELASTOMERIC BEARING PAD, MISC.

CUT LINE CONSTRUCTION JOINT PREPARATION

THE INTENT OF THIS PLAN IS TO ALLOW THE CONTRACTOR TO PERFORM FULL DEPTH SAW CUTS AT THE REMOVAL LINES FOLLOWED BY 1/4" SCARIFICATION TO THE REMAINING CUT LINE SURFACES. HOWEVER, AT THE CONTRACTOR'S OPTION FOR THE SUBSTRUCTURE REMOVALS, SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVALS I INCH DEEP. 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 METHODS THAT PRODUCE SATISFACTORY RESULTS. 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 CONCRETE. RE-STEEL NOT TO BE INCORPORATED IN THE PROPOSED CONCRETE SHALL BE MECHANICALLY CUT AT THE REMOVAL LINE.

<u>ITEM 202 - PORTION OF STRUCTURE REMOVED, AS PER PLAN, (SUPERSTRUCTURE)</u>

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THE PROVISIONS OF ITEM 202 APPLY EXCEPT AS SPECIFIED BY THE FOLLOWING NOTES AND AS SHOWN IN THIS PLAN. PERFORM WORK CAREFULLY DURING DECK REMOVALS TO PROTECT PORTIONS OF SUCH SYSTEMS THAT ARE TO BE SALVAGED, I.E. THE EXISTING PIERS. THE USE OF EXPLOSIVES, HEADACHE BALLS, HOE RAM TYPE EQUIPMENT, AND TRACK HOE PULLVERIZER/SHEAR/MULTI-PROCESSOR ATTACHMENTS IS PROHIBITED. SUBMIT CONSTRUCTION PLANS ACCORDING TO CMS 501.05.

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MEASUREMENT AND PAYMENT: THE DEPARTMENT WILL MEASURE THE QUANTITY OF MATERIALS 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, AS PER PLAN, (SUPERSTRUCTURE).

<u>ITEM 202 - PORTION OF STRUCTURE REMOVED, AS PER PLAN, (SUBSTRUCTURE)</u>

THIS WORK CONSISTS OF THE REMOVAL OF THE EXISTING SUBSTRUCTURE AS INDICATED IN THE PLANS AND GENERAL NOTES AND THAT ARE NOT SEPARATELY LISTED FOR PAYMENT. SUBMIT CONSTRUCTION PLANS ACCORDING TO CMS 501.05.

THE METHOD OF REMOVAL AND THE WEIGHT OF THE HAMMER FOR ABUTMENT REMOVAL SHALL BE APPROVED BY THE ENGINEEER. THE USE OF EXPLOSIVES, HEADACHE BALLS, AND/OR HOE-RAMS WILL NOT BE PERMITTED FOR ABUTMENT REMOVAL. RETAIN EXISTING PILES AT ABUTMENTS TO ELEVATIONS AS INDICATED IN PLANS.

EXISTING PIERS SHALL REMAIN IN PLACE AND UNDAMAGED DURING ADJACENT STRUCTURE REMOVALS.

MEASUREMENT AND 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, AS PER PLAN, SUBSTRUCTURE.

ITEM 202 - APPROACH SLAB REMOVED. AS PER PLAN

DESCRIPTION: THIS WORK SHALL INCLUDE THE REMOVAL OF ALL EXISTING APPROACH SLABS, ADJACENT CONCRETE CURB, AND CONCRETE MEDIAN BARRIER.

MEASUREMENT & PAYMENT: THE DEPARTMENT WILL MEASURE THE QUANTITY OF REMOVALS ON A SO. YD. BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES OF REMOVALS AT THE CONTRACT PRICE FOR ITEM 202, APPROACH SLAB REMOVED, AS PER PLAN.

ITEM 503 - COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN

THE TEMPORARY SHEET PILING USED FOR PHASE CONSTRUCTION SHALL HAVE A MINIMUM SECTION MODULOUS OF 27 IN 1/FT OF WALL.

PAYMENT TO PERFORM THE TEMPORARY SHEET PILING SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 503 - COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN AND SHALL INCLUDE ALL LABOR, EOUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK UNLESS SEPARATELY ITEMIZED IN THE PLANS.

ITEM 503 - UNCLASSIFIED EXCAVATION, AS PER PLAN

THIS ITEM SHALL CONSIST OF REMOVING MATERIALS FROM BEHIND THE EXISTING BACKWALL IN ORDER TO PERFORM ITEM 202, PORTIONS OF STRUCTURE REMOVED, AS PER PLAN. LIMITS OF THIS EXCAVATION SHALL BE LIMITED BETWEEN THE PROPOSED WINGWALLS AND EXTEND TO THE END OF THE PROPOSED APPROACH SLABS AS DETAILED. EXCAVATION AROUND PIER COLUMNS SHALL BE TO THE DEPTH OF THE TOP OF PIER FOOTINGS AND PROVIDE ADEQUATE AREA TO PERFORM THE WORK SHOWN IN THESE PLANS.

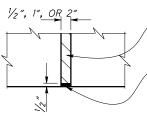
THE BACKFILL MATERIAL FOR ALL EXCAVATION BEHIND THE ABUTMENTS AND UNDER THE APPROACH SLABS SHALL BE LOW STRENGTH MORTAR BACKFILL (LSM). LSM, TYPE I SHALL CONFORM TO CMS SECTION 613 AND BE PLACED WITHIN THE LIMITS OF THE APPROACH SLABS AND IT MAY ALSO BE USED TO CONSTRUCT THE SLOPES IN THIS SAME AREA AS LONG AS IT IS COVERED WITH ONE FOOT OF SOIL TO MATCH EXISTING GRADE. THE AREA FOR THE POROUS BACKFILL WITH GEOTEXTILE FABRIC SHALL BE FORMED PRIOR TO THE PLACEMENT OF THE LSM, TYPE I BACKFILL AND PLACEMENT OF THE GEOTEXTILE FABRIC SHALL BE PLACED AFTER THE LSM HAS CUREDAND THE FORMS HAVE BEEN REMOVED.

PAYMENT TO PERFORM ALL THE WORK OUTLINED ABOVE SHALL BE ICLUDED IN THE LUMP SUM BID FOR ITEM 503 - UNCLASSIFIED EXCAVATION, AS PER PLAN AND SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK UNLESS SEPARATELY ITEMIZED IN THE PLANS.

ITEM 516 - 1/2", 1", or 2" PREFORMED EXPANSION JOINT FILLER, AS PER PLAN

ALL ½ "P.E.J.F., 1" P.E.J.F, AND 2" P.E.J.F. CALLED FOR IN THE PLANS SHALL BE PREFORMED CORK JOINT FILLER (IN ACCORDANCE WITH ARTICLE 705.03). RECESS JOINT FILLER ½ "FOR ALL JOINTS (SEE DETAIL). SEAL ALL JOINTS WITH DECK-O-SEAL GUN GRADE-JOINT SEALANT OR AN APPROVED EQUAL. THE COLOR SHALL BE STONE GRAY. APPROVED MANUFACTURER'S APPLICATION METHODS SHALL BE FOLLOWED DURING SURFACE PREPARATION AND APPLICATION FOR MAXIMUM EFFECTIVENESS.

DECK-O-SEAL P.O. BOX 397 HAMPSHIRE, IL 60140 PHONE: 800-542-7665



1/2", 1", or 2" PREFORMED CORK EXPANSION JOINT FILLER

/2" DECK-O-SEAL GUN GRADE
JOINT SEALANT OR APPROVED
EQUAL, OVER "PREFORMED
CORK EXPANSION JOINT FILLER
(IN ACCORDANCE WITH ARTICLE
705.03)

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 516 - $\frac{1}{2}$ PEJF, A.P.P., SQ. FT. AND 1" PEJF, A.P.P., SQ. FT., AND SHALL INCLUDE ALL LABOR, EQUIPMENT, AND INCIDENTALS REQUIRED TO COMPLETE THE WORK DESCRIBED.

<u>ITEM 519 - COMPOSITE FIBER WRAP SYSTEM</u>

REFER TO PROPOSAL NOTE 519 FOR ITEM SPECIFICATIONS NOT GIVEN HEREIN.
THE REOUIRED CONFINING STRESS DUE TO FRP JACKET (fl) WILL BE 0.150 FOR THE
HEIGHT SHOWN ON SHEET 29/72 THRU 35/72. THE FINAL URETHANE (OR SYSTEM SPECIFIED)
COATING SYSTEM APPLICATION COLOR SHALL BE FEDERAL
COLOR FS-595C-16440: LIGHT GULL GRAY.

<u>ITEM 526 - REINFORCED CONCRETE APPROACH SLABS (T=15"),</u> <u>AS PER PLAN</u>

FURNISH APPROACH SLABS CONFORMING TO CMS 526. THE ACCEPTED OUANTITIES SHALL INCLUDE: CONCRETE, REINFORCING STEEL, JOINT FILLERS, JOINT SEALERS, JOINT SEALERS, JOINT SEALERS, JOINT SEALERS, JOINT SEALERS, P.E.J.F., A.P.P., WATERPROOFING, AND ANY OTHER INCIDENTALS SHOWN ON THE APPROACH SLAB DETAIL SHEETS UNLESS OTHERWISE NOTED IN THE PLAN. THE DEPARTMENT WILL MEASURE APPROACH SLABS BY THE NUMBER OF SQUARE YARDS.

FILL UNDER APPROACH SLABS

ITEM 304, AGGREGATE BASE SHALL BE USED TO BRING THE SUBBASE TO GRADE FOR THE PROPOSED APPROACH SLABS AS DETAILED ON THE APPROACH SLAB DETAILS SHEETS AND SHALL EXTEND 1'-6" ON BOTH SIDES OF EACH APPROACH SLAB.

OHIO DEPARTMENT OF TRANSPORTATION DISTRICT

ESIGNED DRAWN REVIEWED DATE
TOF TAG 11/24/2
HECKED REVISED STRUCTURE FILE NUM
CPS 6002919

.92

BRIDGE NO. MUS-70-11.
OVER N. 6TH STREET

MUS-70-10.49 PID No. 93006

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DESIGN SPECIFICATIONS

DESIGN SPECIFICATIONS: THIS STRUCTURE CONFORMS TO THE 8TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2017, AND THE ODOT BRIDGE DESIGN MANUAL. 2019.

DESIGN DATA

ITEM 511 CLASS OCI CONCRETE, SUBSTRUCTURE (ABUTMENT AND FOOTING)
COMPRESSIVE STRENGTH 4000 PSI (SUBSTRUCTURE)
ITEM 511 CLASS OC2 CONCRETE, SUPERSTRUCTURE (DECK)
COMPRESSIVE STRENGTH 4500 PSI (SUPERSTRUCTURE)
REINFORCING STEEL - ASTM A615 OR A996, GRADE 60
MINIMUM YIELD STRENGTH 60,000 PSI

DESIGN LOADING

DESIGN LOADING: HL-93. FUTURE WEARING SURFACE (FWS) OF 60 POUNDS PER SOUARE FOOT.

REFERENCE

EXISTING BRIDGE PLANS MAY BE INSPECTED AND ARE PROVIDED WITH THIS PROJECT'S BIDDING DOCUMENTS.

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 CMS 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.

DECK PROTECTION METHOD

EPOXY COATED REINFORCING STEEL 21/2" CONCRETE COVER

MONOLITHIC WEARING SURFACE

MONOLITHIC WEARING SURFACE IS ASSUMED, FOR DESIGN PURPOSES, TO BE I INCH THICK.

POROUS BACKFILL WITH GEOTEXTILE FABRIC

POROUS BACKFILL WITH GEOTEXTILE FABRIC, THE THICKNESS AS DETAILED IN THIS PLAN SHALL EXTEND UP TO THE PLANE OF THE SUBGRADE, TO 1 FOOT BELOW THE EMBANKMENT SURFACE, AND LATERALLY TO THE ENDS OF THE WINGWALLS.

FILL UNDER APPROACH SLABS

ITEM 304, AGGREGATE BASE SHALL BE USED TO BRING THE SUBBASE TO GRADE FOR THE PROPOSED APPROACH SLABS AS DETAILED ON THE APPROACH SLAB DETAILS SHEETS AND SHALL EXTEND 1'-6" ON BOTH SIDES OF EACH APPROACH SLAB.

SURFACE SMOOTHNESS FOR BRIDGES AND APPROACHES

AT THE COMPLETION OF WORK FOR ALL PHASES OF CONSTRUCTION THE CONTRACTOR SHALL CONTACT THE DISTRICT 5 SMOOTHNESS COORDINATOR.

PERFORM THE FOLLOWING AS PER PROPOSAL NOTE 555:

- 1. CLEAN, SWEEP, AND PREPARE THE FINAL DECK AND FINAL ROADWAY SURFACE.
- 2. MEASURE, GRIND, AND RE-MEASURE THE BRIDGE AND/OR ROADWAY AS NECESSARY.
- 3. PERFORM GROOVING OF THE BRIDGE DECK.

INSPECTION FOR BATS

PRIOR TO THE START OF DEMOLITION ACTIVITIES THE CONTRACTOR SHALL INSPECT THE UNDERSIDE OF THE BRIDGE FOR THE PRESENCE OF BATS OR NESTING BIRDS. IF ANY BATS OR BIRD NESTS ARE OBSERVED THE CONTRACTOR SHALL NOTIFY NICOLE HAFER-LIPSTREU IN THE DISTRICT 5 PLANNING DEPARTMENT @ (740) 323-5103 (NICOLE.HAFERLIPSTREU@DOT.OHIO.GOV), OR, BRIAN TATMAN @ (740) 323-5191 (BRIAN.TATMAN@DOT.OHIO.GOV) PRIOR TO STARTING ANY DEMOLITION WORK.

ELASTOMERIC BEARING PADS

ELASTOMERIC BEARING PAD: THE ELASTOMERIC BEARING PAD SHALL BE PLACED AT THE REAR AND FORWARD ABUMENTS AS DETAILED IN THE PLAN. THE ELASTOMER SHALL HAVE A HARDNESS OF 50 DUROMETER. THE BEARING WAS DESIGNED IN ACCORDANCE WITH SECTION 14.7.6 (METHOD A) OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. THE LONGTERM COMPRESSION PROOF LOAD TEST (AASHTO STANDARD SPECIFICATION FOR HIGHWAY BRIDGES, DIVISION II, SECTION 18.7.2.6) IS NOT REOUIRED. THE DIMENSION PROVIDED FOR THE ELASTOMERIC BEARING PAD WILL ALLOW THE CONTRACTOR TO TRIM THE ENDS OF THE BEARING PAD TO PROPERLY FIT THE SKEWED ANGLES OF THE DIAPHRAGM. THE CONTRACTOR SHALL TRIM EACH ITEM 516 ELASTOMERIC BEARING PAD, MISC., BY MECHANICAL MEANS AS APPROVED BY THE ENGINEER. MITER CUT THE ENDS SO THAT THE BEARING PADS FIT FLUSH BETWEEN ADJOINING PHASES/VERTICAL WINGWALL SURFACES. ALL ASSOCIATED TIME LABOR AND MATERIALS TO PERFORM THIS FIELD WORK WILL BE INCIDENTAL TO ITEM 516 ELASTOMERIC BEARING PAD, MISC.

CUT LINE CONSTRUCTION JOINT PREPARATION

THE INTENT OF THIS PLAN IS TO ALLOW THE CONTRACTOR TO PERFORM FULL DEPTH SAW CUTS AT THE REMOVAL LINES FOLLOWED BY 1/4" SCARIFICATION TO THE REMAINING CUT LINE SURFACES. HOWEVER, AT THE CONTRACTOR'S OPTION FOR THE SUBSTRUCTURE REMOVALS, SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVALS I INCH DEEP. 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 RESULTS. 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 CONCRETE. RE-STEEL NOT TO BE INCORPORATED IN THE PROPOSED CONCRETE SHALL BE MECHANICALLY CUT AT THE REMOVAL LINE.

<u>ITEM 202 - PORTION OF STRUCTURE REMOVED, AS PER PLAN,</u> (SUPERSTRUCTURE)

THIS WORK CONSISTS OF THE REMOVAL OF THE ENTIRE EXISTING SUPERSTRUCTURE AS INDICATED IN THE PLANS AND GENERAL NOTES AND THAT ARE NOT SEPARATELY LISTED FOR PAYMENT, INCLUDING THE REMOVAL OF ALL EXISTING CONCRETE DECK, PARAPETS, MEDIANS, BRIDGE RAILINGS, SCUPPERS WITH ATTACHMENTS, EXPANSION JOINTS, STEEL BULB ANGLE GUTTERS, AND ALL OTHER INDIVIDUAL COMPONENTS OF THE ENTIRE EXISTING SUPERSTRUCTURE.

THE PROVISIONS OF ITEM 202 APPLY EXCEPT AS SPECIFIED BY THE FOLLOWING NOTES AND AS SHOWN IN THIS PLAN. PERFORM WORK CAREFULLY DURING DECK REMOVALS TO PROTECT PORTIONS OF SUCH SYSTEMS THAT ARE TO BE SALVAGED, I.E. THE EXISTING PIERS. THE USE OF EXPLOSIVES, HEADACHE BALLS, HOE RAM TYPE EOUIPMENT, AND TRACK HOE PULVERIZER/SHEAR/MULTI-PROCESSOR ATTACHMENTS IS PROHIBITED. SUBMIT CONSTRUCTION PLANS ACCORDING TO CMS 501.05.

REMOVAL OF THE EXISTING CONCRETE PIER SHEAR KEY SHALL BE PERFORMED BY GRINDING AND SHALL BE INCLUDED IN FOR PAYMENT UNDER ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN, (SUPERSTRUCTURE).

PROTECTION OF TRAFFIC: THE CONTRACTOR SHALL SUBMIT PLANS FOR THE PROTECTION OF TRAFFIC (VEHICULAR, PEDESTRIAN, BOAT, ETC.) AS PER CMS 2019 501.05.B.2.

MEASUREMENT AND PAYMENT: THE DEPARTMENT WILL MEASURE THE QUANTITY OF MATERIALS 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, AS PER PLAN, (SUPERSTRUCTURE).

<u>ITEM 202 - PORTION OF STRUCTURE REMOVED, AS PER PLAN, (SUBSTRUCTURE)</u>

THIS WORK CONSISTS OF THE REMOVAL OF THE EXISTING SUBSTRUCTURE AS INDICATED IN THE PLANS AND GENERAL NOTES AND THAT ARE NOT SEPARATELY LISTED FOR PAYMENT. SUBMIT CONSTRUCTION PLANS ACCORDING TO CMS 501.05.

THE METHOD OF REMOVAL AND THE WEIGHT OF THE HAMMER FOR ABUTMENT REMOVAL SHALL BE APPROVED BY THE ENGINEEER. THE USE OF EXPLOSIVES, HEADACHE BALLS, AND/OR HOE-RAMS WILL NOT BE PERMITTED FOR ABUTMENT REMOVAL. RETAIN EXISTING PILES AT ABUTMENTS TO ELEVATIONS AS INDICATED IN PLANS.

EXISTING PIERS SHALL REMAIN IN PLACE AND UNDAMAGED DURING ADJACENT STRUCTURE REMOVALS.

MEASUREMENT AND 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, AS PER PLAN, SUBSTRUCTURE.

ITEM 202 - APPROACH SLAB REMOVED, AS PER PLAN

THIS WORK CONSISTS OF THE REMOVAL OF ALL EXISTING APPROACH SLABS AND CONCRETE MEDIAN BARRIER.

MEASUREMENT AND PAYMENT: THE DEPARTMENT WILL MEASURE THE OUANTITY OF REMOVALS ON A SO. YD. BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES OF REMOVALS AT THE CONTRACT PRICE FOR ITEM 202, APPROACH SLABS REMOVED, AS PER PLAN.

ITEM 503 - UNCLASSIFIED EXCAVATION, AS PER PLAN

THIS ITEM SHALL CONSIST OF REMOVING MATERIALS FROM BEHIND THE EXISTING BACKWALL IN ORDER TO PERFORM ITEM 202, PORTIONS OF STRUCTURE REMOVED, AS PER PLAN. LIMITS OF THIS EXCAVATION SHALL BE LIMITED BETWEEN THE PROPOSED WINGWALLS AND EXTEND TO THE END OF THE PROPOSED APPROACH SLABS AS DETAILED. EXCAVATION AROUND PIER COLUMNS SHALL BE TO THE DEPTH OF THE TOP PIER FOOTING AND PROVIDE ADEQUATE AREA TO PERFORM THE WORK SHOWN IN THESE PLANS.

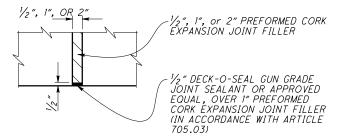
THE BACKFILL MATERIAL FOR ALL EXCAVATION BEHIND THE ABUTMENTS AND UNDER THE APPROACH SLABS SHALL BE LOW STRENGTH MORTAR BACKFILL (LSM). LSM, TYPE I SHALL CONFORM TO CMS SECTION 613 AND BE PLACED WITHIN THE LIMITS OF THE APPROACH SLABS AND IT MAY ALSO BE USED ALSO BE ABLE TO CONSTRUCT THE SLOPES IN THIS SAME AREA AS LONG AS IT IS COVERED WITH ONE FOOT OF SOIL TO MATCH EXISTING GRADE. THE AREA FOR THE POROUS BACKFILL WITH GEOTEXTILE FABRIC SHALL BE FORMED PRIOR TO THE PLACEMENT OF THE LSM, TYPE I BACKFILL AND PLACEMENT OF THE GEOTEXTILE FABRIC SHALL BE PLACED AFTER THE LSM HAS CURED AND THE FORMS HAVE BEEN REMOVED.

PAYMENT TO PERFORM ALL THE WORK OUTLINED ABOVE SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 503 - UNCLASSIFIED EXCAVATION, AS PER PLAN AND SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK UNLESS SEPARATELY ITEMIZED IN THE PLANS.

<u>ITEM 516 -1/2" OR 1" PREFORMED EXPANSION JOINT FILLER, AS PER PLAN</u>

ALL ½ "P.E.J.F., 1" P.E.J.F, AND 2" P.E.J.F. CALLED FOR IN THE PLANS SHALL BE PREFORMED CORK JOINT FILLER (IN ACCORDANCE WITH ARTICLE 705.03). RECESS JOINT FILLER ½ "FOR ALL JOINTS (SEE DETAIL). SEAL ALL JOINTS WITH DECK-O-SEAL GUN GRADE-JOINT SEALANT OR AN APPROVED EQUAL. THE COLOR SHALL BE STONE GRAY. APPROVED MANUFACTURER'S APPLICATION METHODS SHALL BE FOLLOWED DURING SURFACE PREPARATION AND APPLICATION FOR MAXIMUM EFFECTIVENESS.

DECK-O-SEAL P.O. BOX 397 HAMPSHIRE, IL 60140 PHONE: 800-542-7665



PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 516 - $\frac{1}{2}$ " PEJF, A.P.P., SQ. FT. AND 1" PEJF, A.P.P., SQ. FT., AND SHALL INCLUDE ALL LABOR, EQUIPMENT, AND INCIDENTALS REQUIRED TO COMPLETE THE WORK DESCRIBED.

<u>ITEM 526 - REINFORCED CONCRETE APPROACH SLABS (T=15"), AS PER PLAN</u>

FURNISH APPROACH SLABS CONFORMING TO CMS 526. THE ACCEPTED QUANTITIES SHALL INCLUDE: CONCRETE, REINFORCING STEEL, JOINT FILLERS, JOINT SEALERS, JOINT SEALS, WATERPROOFING, AND ANY OTHER INCIDENTALS SHOWN ON THE APPROACH SLAB DETAIL SHEETS UNLESS OTHERWISE NOTED IN THE PLAN. THE DEPARTMENT WILL MEASURE APPROACH SLABS BY THE NUMBER OF SQUARE YARDS.

DESIGN AGENCY
OHIO DEPARTMENT OF
TRANSPORTATION, DISTRICT

DRAWN REVIEWD DATE
YEL TAG 11/24/2020
REVISED STRUCTURE FILE NUMBER
6002943

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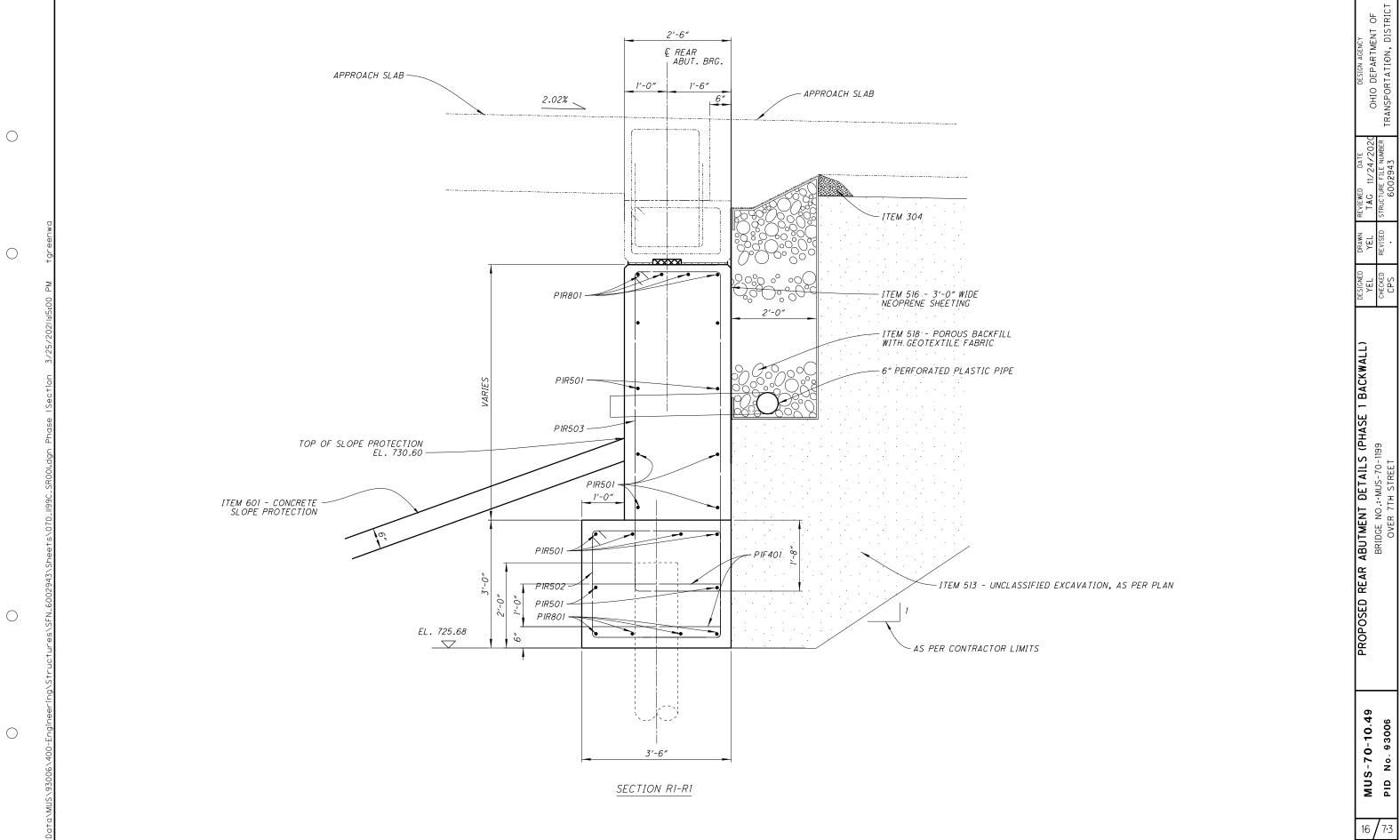
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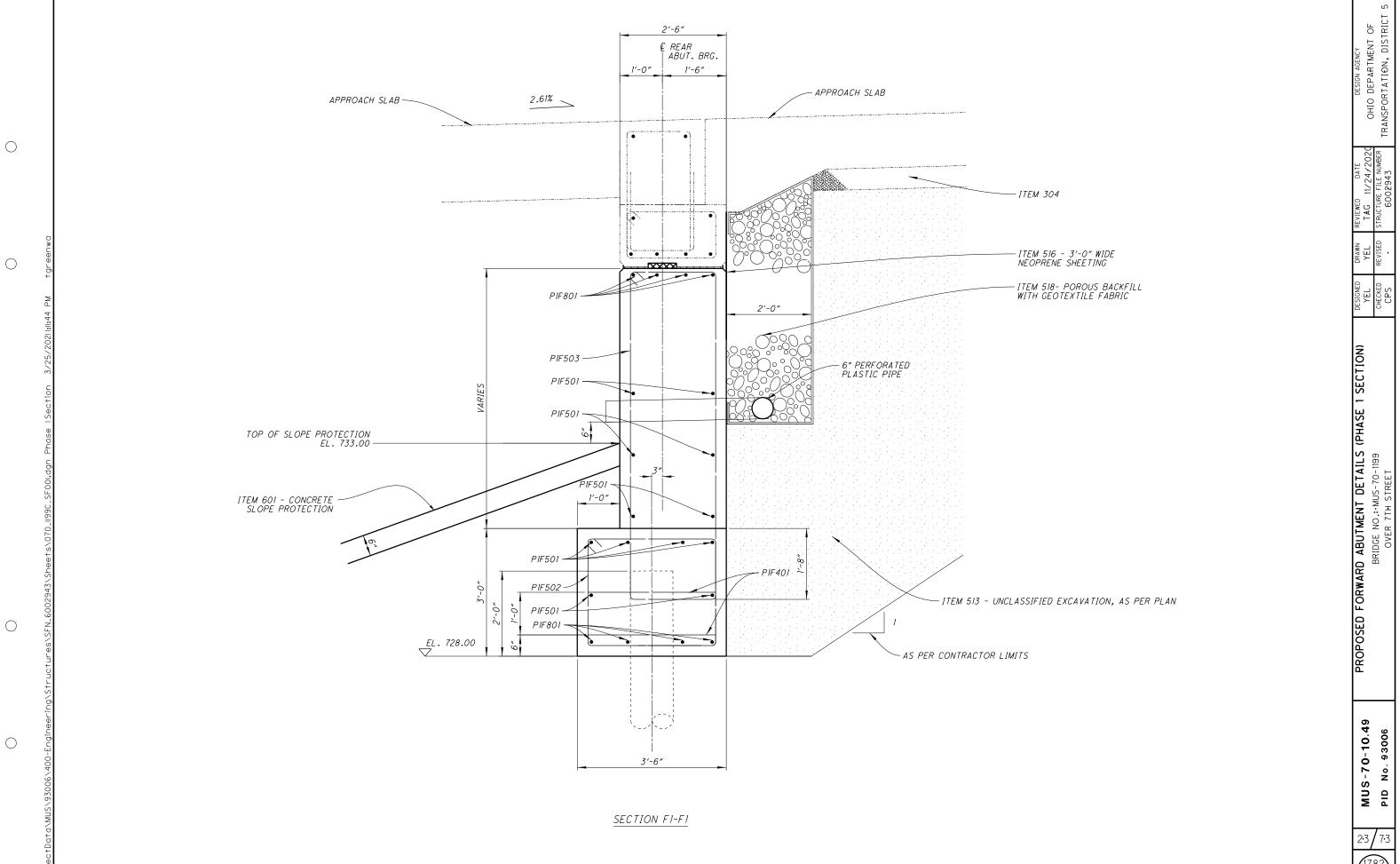


				SHEET NU			1	I I		ART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET	F 107 5
					PHASE	1 PHASE 2	PHASE 3		027	/IMS/B R		EXT	TOTAL			NO.	DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT
					0.34	.S 0.33 LS	0 33 15			LS	202	11201	LS		STRUCTURE OVER 20 FOOT SPAN (MUS-70-1199) PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (SUPERSTRUCTURE)	3	MENCY MEN
					0.34	S 0.33 LS	0.33 / 5			LS	202	11201	LS		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (SUBSTRUCTURE)	3	AR 10
					188		199			534	202	22900	534	SY	APPROACH SLAB REMOVED		DESIG DEP TAT
																	0 I
					LS		0 77 / 6			LS	503	11101	LS		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN	4	— ₽ R
					0.34	.S 0.33 LS	0.33 LS			LS	503	21301	LS		UNCLASSIFIED EXCAVATION, AS PER PLAN	3	- RA
\bigcirc					62,63	5 57,831	74,097		194	4,603	509	10000	194,603	LB	EPOXY COATED REINFORCING STEEL		
					44	36	48			128	510	10000	128	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT		REVIEWED DATE TAG 11/20/2020 STRUCTURE FILE NUMBER 6009743
					275	233	305			813	511	32212	813	CY	CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE		1 1 1 1 1 1 1 1 1 1
					55					55	511	34450	55		CLASS OC2 CONCRETE WITH OC/OA, BRIDGE DECK (PARAPET) (MEDIAN BARRIER)		EWED AG
						24	24			48	511	34461	48		CLASS OC SCC CONCRETE, BRIDGE DECK (PARAPET), AS PER PLAN	57-59	STRU T
					64	76	86			226	511	43512	226	CY	CLASS QCI CONCRETE WITH QC/QA, ABUTMENT INCLUDING FOOTING		
					328	273	299			900	512	10050	900	SY			DRAWN YEL REVISED
\bigcirc					57	57	85			199	512	10100	199		SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)		- HR > HR
DWL					23	22	20			65	<i>512</i>	33000	65	SY	TYPE 2 WATERPROOFING		
eer	5															_	EL EL
†gr	jn				113 154	96	126			335	516 516	13201	335	SF SF	1/2" PREFORMED EXPANSION JOINT FILLER, AS PER PLAN	3	DESIGNE YEL CHECKEI
					154	119	155 38			<i>428</i> 79	516 516	13601 13901	428 79	SF SF	1" PREFORMED EXPANSION JOINT FILLER, AS PER PLAN 2" PREFORMED EXPANSION JOINT FILLER, AS PER PLAN	3	_
≥						- 11	1 30			-	310	15501	7.5	31	2 THE ONNED EXPANSION CONTINUED IN TELETI, AS TENTEAN		_
4 4					68	67	77			212	516	14020	212	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL		
:15:					68	58	76			202	516	14600	202		STRUCTURAL JOINT OR JOINT SEALER, MISC.: EMSEAL WITH SLEEPER SLAB	73	
2112					68	58	76			202	516	31011	202	FT	2" DEEP JOINT SEALER, AS PER PLAN	4	
720					2					2	516	42000	2	EACH	ELASTOMERIC BEARING PAD, MISC.: (33'-10" x 8" x 1-1/2")	3	_
/24						2				2	516	42000	2	EACH	ELASTOMERIC BEARING PAD, MISC.: (28'-9" X 8" X 1 1/2")	3	_
W							1			1	516	42000	1		ELASTOMERIC BEARING PAD, MISC.: (34'-2" X 8" X 1 1/2")	3	
+							1			1	<i>516</i>	42000	1	EACH	ELASTOMERIC BEARING PAD, MISC.: (42'-7" X 8" X 1 1/2")	3	
She							<u> </u>				510	10000		- 1 O	COURDED CONTROL WALLACTER CONTROL CONT		┦ .
D C D	n				6 28	34	11			19 103	518 518	12000 21200	19 103		SCUPPERS, INCLUDING SUPPORTS POROUS BACKFILL WITH GEOTEXTILE FABRIC		→ 1193
P.IC					68	58	76			202	518	40000	202	FT	6" PERFORATED CORRUGATED PLASTIC PIPE		⊣a
1095					29	41	49			119	518	40010	119		6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS		SUMMARY SUMMARY •••MUS-70-119
)-DE																	∏ດ ≥ັ±
9611					507	507	761		1,	,775	SPECIAL	51900100	1,775	SF	COMPOSITE FIBER WRAP SYSTEM	4	ᆜᄣᇕ
s\070					188	160	211			559	526	25001	559	SY	REINFORCED CONCRETE APPROACH SLABS (T=15"), AS PER PLAN	3	BRIDGE SUMMAR BRIDGE NO.:·MUS-70-
96+						461	460			921	SPECIAL	53000600	921	SF	STRUCTURES AESTHETIC TREATMENT (CONCRETE FORMLINER/STAIN)	4	HRI BRI
\She						707	700			527	3/ ECIAL	0300000	J21	3,	STRUCTURES ALSTRETTE TREATMENT TOURISHED TOURISHED STAIN	,	
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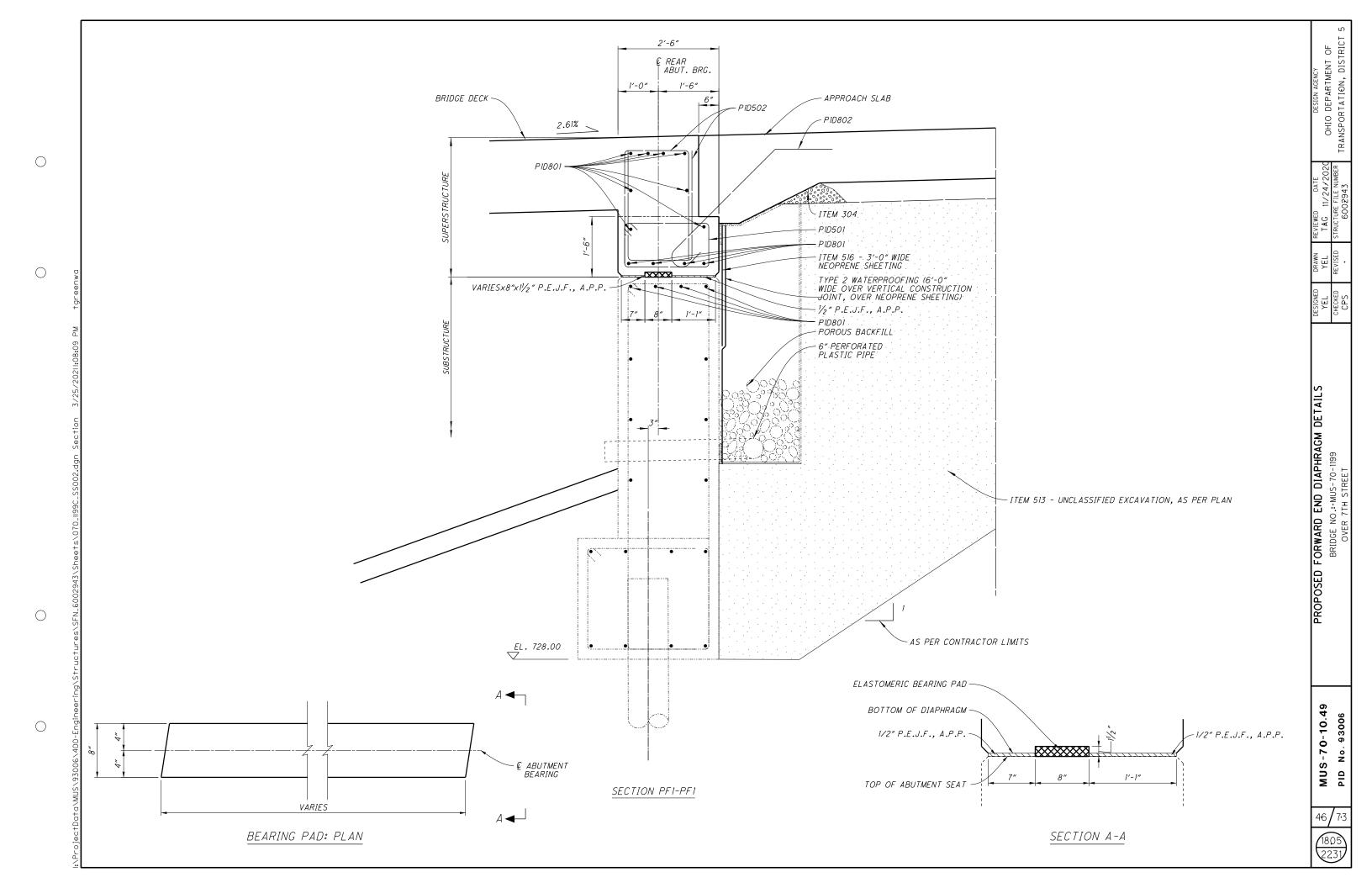


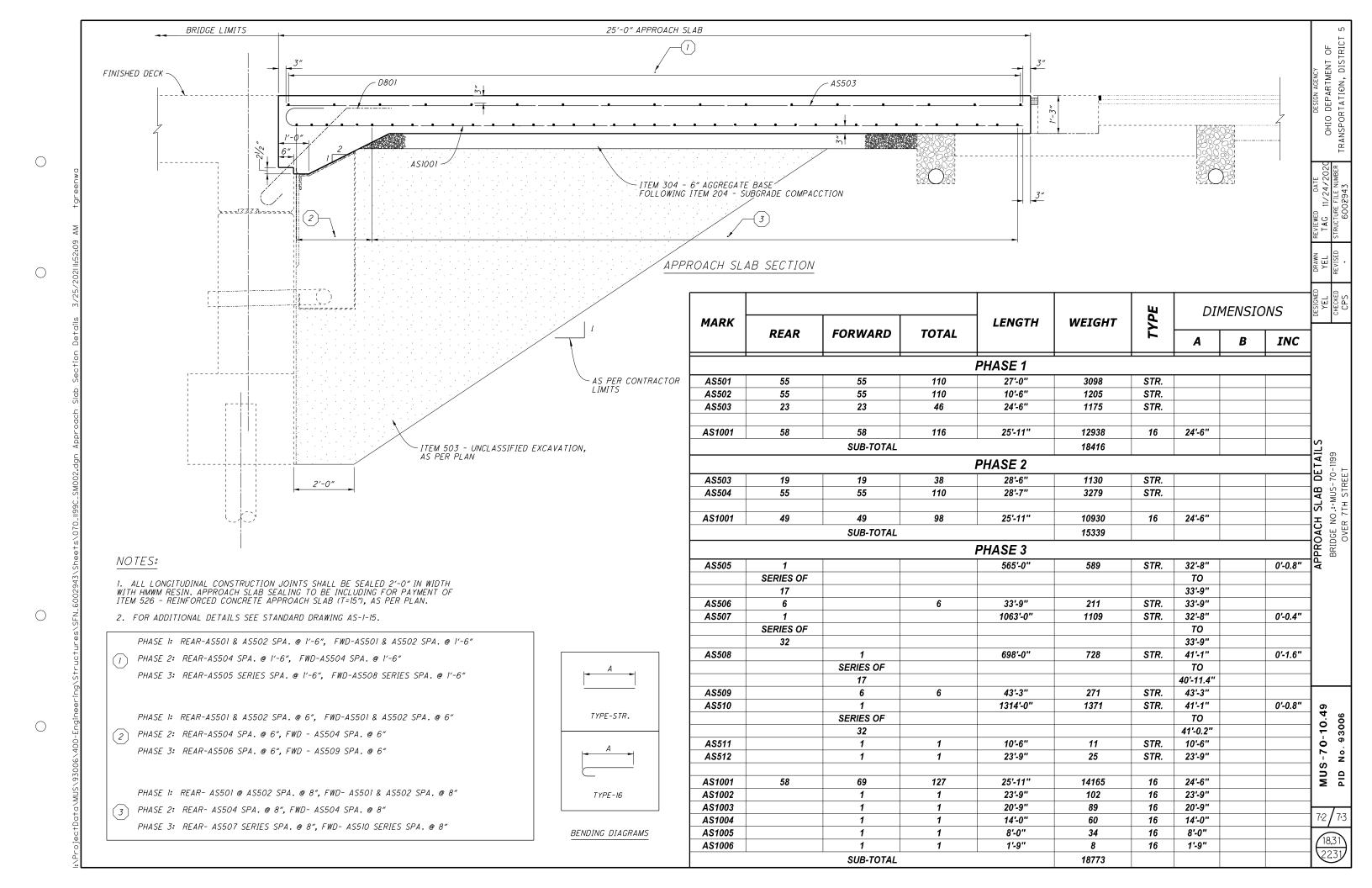
DESIGN AGENCY
OHIO DEPARTMENT OF
TRANSPORTATION, DISTRICT 5











FORWARD ABUTMENT SLOPE ON BRIDGE NO. MUS-70-1212:
- STA 616+78.06 TO STA 616+82.83
OUANTITY = (4.23' x 97.34')/9 = 45.7 S.Y.
- STA 616+82.83 TO STA 617+26.70
OUANTITY = (43.87' x 97.34' x SLOPE 1.08)/9 = 512.4 S.Y.

GRAND TOTAL 465.8 S.Y. + 41.2 S.Y. + 45.7 + 512.4 = 1,065 S.Y.

ITEM 601 - CONCRETE SLOPE PROTECTION

REAR ABUTMENT SLOPE ON BRIDGE NO. MUS-70-1212: - STA 615+70.45 TO STA 616+10.33 QUANTITY = (39.88' x 97.34' x SLOPE 1.08)/9 = 465.8 S.Y. - STA 615+14.33 TO STA 616+18.53 QUANTITY = (3.81' x 97.34')/9 = 41.2 S.Y.

FORWARD ABUTMENT SLOPE ON BRIDGE NO. MUS-70-1212: - STA 616+78.06 TO STA 616+82.83 OUANTITY = (4.23' x 97.34')/9 = 45.7 S.Y. - STA 616+82.83 TO STA 617+26.70 OUANTITY = (43.87' x 97.34' x SLOPE 1.08)/9 = 512.4 S.Y.

GRAND TOTAL 465.8 S.Y. + 41.2 S.Y. + 45.7 + 512.4 = 1,065 S.Y.

ITEM 601 - CRUSHED AGGREGATE SLOPE PROTECTION

REAR ABUTMENT DRAINS BRIDGE NO. MUS-70-1212:
- SOUTH DRAIN
OUANTITY = (4.0' x 3.14 x 1.0')/27 = 0.47 C.Y.
- NORTH DRAIN
OUANTITY = (4.0' x 3.14 x 1.0')/27 = 0.47 C.Y.

FORWARD ABUTMENT DRAINS BRIDGE NO. MUS-70-1212;
- SOUTH DRAIN
OUANTITY = (4.0' x 3.14 x 1.0')/27 = 0.47 C.Y.
- NORTH DRAIN
OUANTITY = (4.0' x 3.14 x 1.0')/27 = 0.47 C.Y.

GRAND TOTAL
0.47 C.Y. + 0.47 C.Y. + 0.47 C.Y. + 0.47 C.Y. = 1.88 C.Y.

ITEM 204 - SUBGRADE COMPACTION

REAR APPROACH SLAB ON BRIDGE NO. MUS-70-1212:
- STA 615+47.70 TO STA 615+55.83

OUANTITY = (8.13' x 94.34')/9 = 85.2 S.Y.
- STA 615+55.83 TO STA. 615+65.45

OUANTITY = (9.63' x 91.67')/9 = 98.1 S.Y.

FORWARD APPROACH SLAB ON BRIDGE NO. MUS-70-1212:
- STA 617+31.70 TO STA 617+41.33
OUANTITY = (9.63' x 91.67')/9 = 98.1 S.Y.
- STA 617+41.33 TO STA 617+49.45
OUANTITY = (8.13' x 94.34')/9 = 85.2 S.Y.

GRAND TOTAL 85.2 S.Y. + 98.1 S.Y. + 98.1 S.Y. + 85.2 S.Y. = 367 S.Y.

<u> ITEM 304 - AGGREGATE BASE</u>

REAR APPROACH SLAB ON BRIDGE NO. MUS-70-1212:
- STA 615+47.70 TO STA 615+55.83
OUANTITY = (18.13' x 94.34') x (8*'/12))/27 = 18.9 C.Y.
- STA 615+55.83 TO STA. 615+65.45
OUANTITY = (19.63' x 91.67') x (8*'/12))/27 = 21.8 C.Y.

FORWARD APPROACH SLAB ON BRIDGE NO. MUS-70-1212:
- STA 617+31.70 TO STA 617+41.33

OUANTITY = ((9.63' x 91.67') x (8"/12))/27 = 21.8 C.Y.
- STA 617+41.33 TO STA 617+49.45

OUANTITY = ((8.13' x 94.34') x (8"/12))/27 = 18.9 C.Y.

GRAND TOTAL 18.9 C.Y. + 21.8 C.Y. +21.8 C.Y. + 18.9 C.Y. = 82 C.Y.

ALL QUANTITIES SHOWN BELOW CARRIED TO SHEET 1908.

APPROACH	BRIDGE	ITEM	ITEM EXTENSION	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET
				R	OADWAY		
	1,065	202	32800	1,065	SQ.YD.	CONCRETE SLOPE PROTECTION REMOVED	1
367		204	10000	367	SQ.YD.	SUBGRADE COMPACTION	70-73
				EROSI	ION CONTRO	DL DL	
	2	601	20010	2	CU.YD.	CRUSHED AGGREGATE SLOPE PROTECTION	14-15
	1,065	601	21000	1,065	SQ.YD.	CONCRETE SLOPE PROTECTION	1
				<i>P.</i>	AVEMENT		
82	<u> </u>	304	20000	82	CU.YD.	AGGREGATE BASE	70-73

ITEM 613 - LOW STRENGTH MORTAR BACKFILL, AS PER PLAN

LOW STRENGTH MORTAR (LSM) USED AS BACKFILL BEHIND SEMI-INTEGRAL ABUTMENT DIAPHRAGMS SHALL HAVE A LONG TERM COMPRESSIVE STRENGTH BETWEEN 150 AND 200 PSI. THE TOP ELEVATION SHALL BE AT LEAST 6" BELOW THE PROPOSED BOTTOM OF APPROACH SLAB AND ANY FORMWORK BETWEEN THE LSM BACKFILL AND SEMI-INTEGRAL DIAPHRAGM SHALL BE COMPLETELY REMOVED.

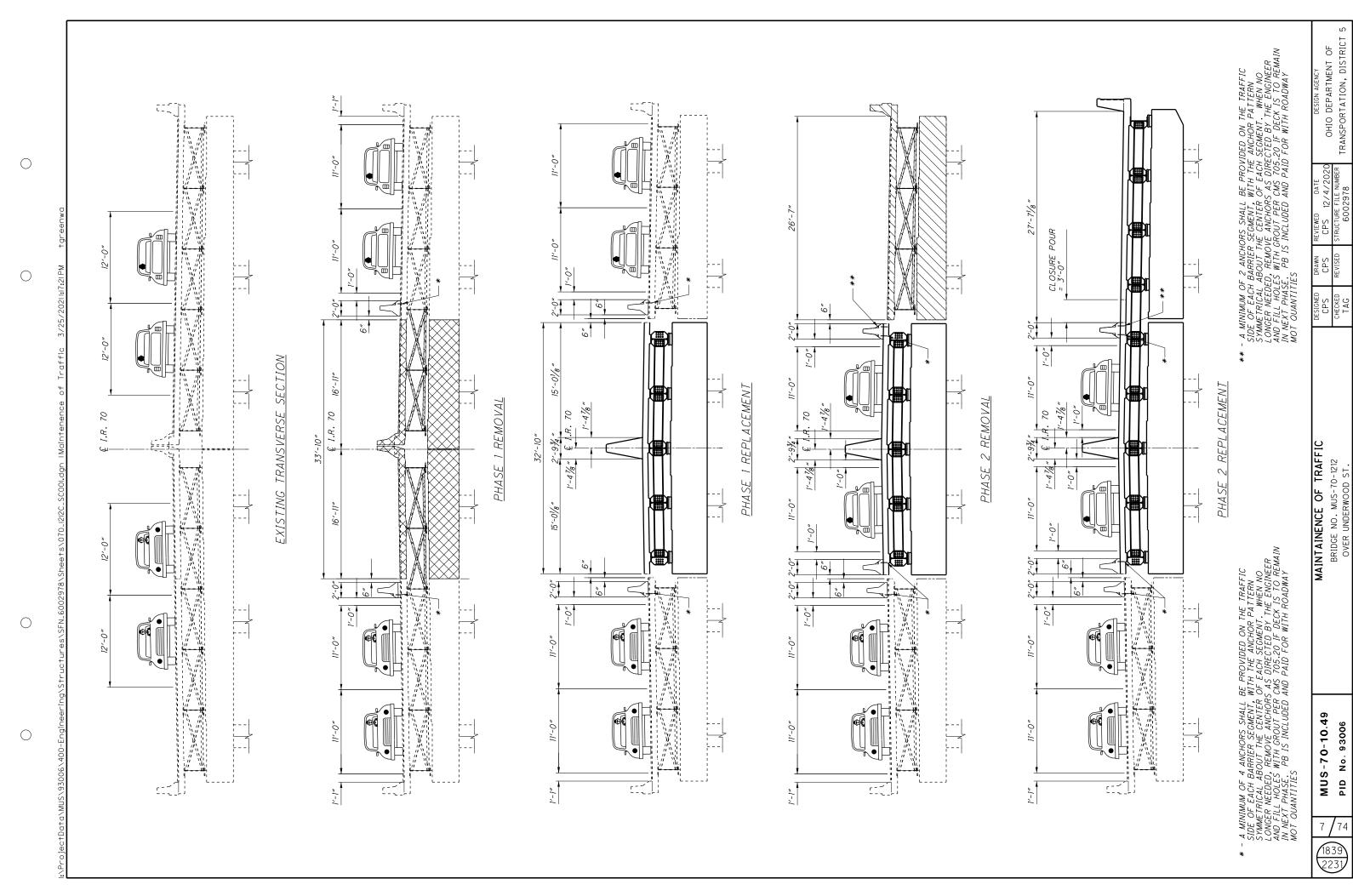
THE OUANTITY IN THE PLANS ASSUMES A 1.5:1 SLOPE OF BOTTOM OF LSM ELEVATION UP TO 2' BELOW THE PROPOSED TOP OF LSM ELEVATION (WHERE A VERTICAL END OF THE ITEM 613 IS ASSUMED). ADDITIONAL LSM BEYOND THESE LIMITS IS INCLUDED WITH ITEM 503 - UNCLASSIFIED EXCAVATION, AS PER PLAN.

DESIGN AGENCY
OHIO DEPARTMENT OF
TRANSPORTATION, DISTRICT (

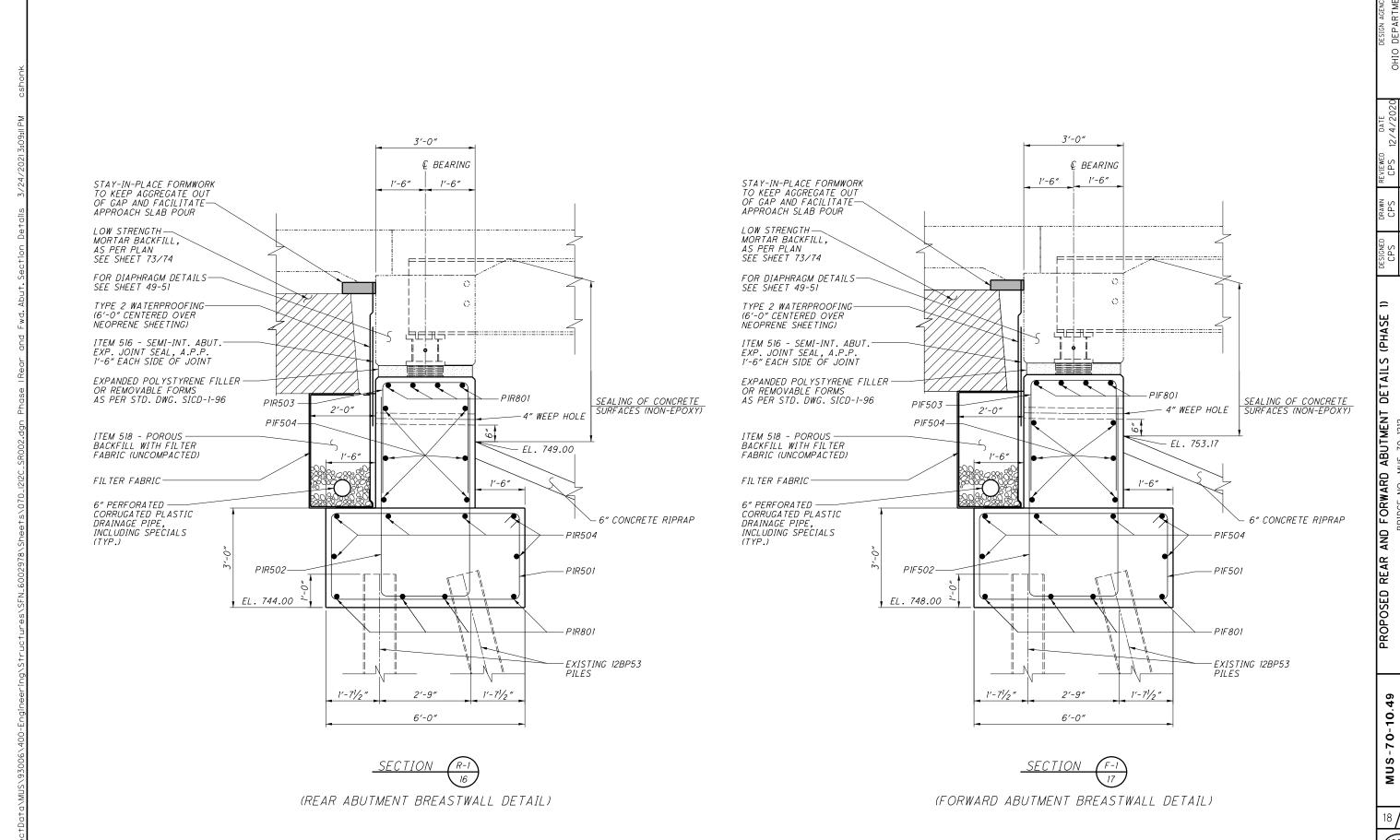
ı				-
	DESIGNED	DRAWN	REVIEWED DATE	_
	CPS	CPS	CPS 12/4/2020	$\overline{}$
	CHECKED	REVISED	STRUCTURE FILE NUMBER	
	TAG		6002978	

	2	
NOTES	BRIDGE NO. MUS-70-1212	TS UUU
BRIDGE N	NO. MU	OVER LINDERWOOD ST
BRI	BRIDGE	0 1/0

	PHASE 1	PHASE 2	PHASE 3	PART。 02/IMS/B R	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	DESIGN AGENCY OHIO DEPARTMENT OF	TRICT 5
									STRUCTURE REPAIR (MUS-70-1212)		AENT	
	LS	LS	LS	LS	202	11203	LS	014	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN (SUPERSTUCTURE)	3	AGEN RTM	Ś
	127 188	120 148	120 148	367 484	202 202	11301 22901	367 484	CY SY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (SUBSTRUCTURE) APPROACH SLAB REMOVED. AS PER PLAN	3 3	Sign ATI	
	700	7.0	7.70	70 7	202	22001	70 7	3,	ALTHORNI SERB REMOTED, AS TENTERN	3	O D OORT	,
	LS	LS	LS	LS	503	11101	LS		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN	4	MSP NSP	
	LS	LS	LS	LS	503	21301	LS		UNCLASSIFIED EXCAVATION, AS PER PLAN	4	IRAI	
	50,139	52,085	52,085	154,309	509	10000	154,309	LB	EPOXY COATED REINFORCING STEEL			
	5,843	4,263	4,263	14,369	509	40000	14,369	LB	REINFORCING STEEL, MISC.: GALVANIZED	4	TE 202	
		36		36	510	10000	36	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT		DA/ / 4 / / 4 / 9 / 9 / 8 / 9 / 7 8 / 9 / 7 8	2
											0 12 12 12 12 12 12 12 12 12 12 12 12 12	CPS 12/4/2020 STRUCTURE FILE NUMBER 6002978
	166	153	153	472	511 511	21523 33500	472	CY EACH	CLASS OC2 CONCRETE WITH OC/OA, SUPERSTRUCTURE, AS PER PLAN SEMI-INTEGRAL DIAPHRAGM GUIDE	3	ZEWE	
	72			72	511	34450	72	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET) (MEDIAN BARRIER)		RE)	┙
		7.5	75	7.0		7.4404	7.0	0.11		24.05	SSED SED	
	35	35 27	35 27	70 89	511 511	34461 41012	70 89	CY CY	CLASS OC SCC CONCRETE, BRIDGE DECK (PARAPET), AS PER PLAN CLASS OCI CONCRETE WITH OC/OA, PIER ABOVE FOOTINGS	64-65	DRAWN CPS REVISED	
	74	85	85	244	511	43512	244	CY	CLASS QCI CONCRETE WITH QC/QA, ABUTMENT INCLUDING FOOTING		 	┥
	700	777	777	1.007	F10	10050	1.007	CV	SEALTING OF CONCRETE SUBFACES (NON FRONC)		DESIGNED CPS CHECKED TAGG	ž
	389 57	<i>337 57</i>	337 57	1,063 171	512 512	10050 10100	1,063 171	SY SY	SEALING OF CONCRETE SURFACES (NON-EPOXY) SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)			DES
	44	41	41	126	512	33000	126	SY	TYPE 2 WATERPROOFING			
	LS	LS	LS	1.5	513	10040	LS		STRUCTURAL STEEL NEWBERS LEVEL 2			
	3,030	2,424	2,424	LS 7,878	513	20000	7,878	EACH	STRUCTURAL STEEL MEMBERS, LEVEL 2 WELDED STUD SHEAR CONNECTORS			
	,	·										
	7,147 7,147	5,893 5,893	5,893 5,893	18,933 18,933	514 514	00060 00066	18,933 18,933	SF SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT FIELD PAINTING STRUCTURAL STEEL, FINISH COAT	3		
	8	7	7	22	514	10000	22	EACH	FINAL INSPECTION REPAIR			
	10			7.0	510	17001	7.0	65	W DOSSODUSD SVD WENDY VOINT SW SD. AC DSD DV W			
	18	9 27	9 27	36 54	516 516	13601 13901	36 54	SF SF	I" PREFORMED EXPANSION JOINT FILLER, AS PER PLAN 2" PREFORMED EXPANSION JOINT FILLER, AS PER PLAN	4		
	66	65	65	196	516	14020	196	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	,	2	BRIDGE SUMMARY BRIDGE NO. MUS-70-1212 OVER UNDERWOOD ST.
	66	59	59	184	<i>516</i>	14600	184	FT	STRUCTURAL JOINT OR JOINT SEALER, MISC.: EMSEAL WITH SLEEPER SLAB	73	4RY 0-12	
	66	59	59	184	516	31011	184	FT	2" DEEP JOINT SEALER, AS PER PLAN	4	MIM.	
		_									SU. MU	
	10	8	8	26 26	516 516	44300 44300	26 26	EACH EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (1'-3" x 1'-1" x 4.1479") ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (1'-6" x 1'-2" x 4.1479")	3 3	S NO NO NO	
					0.10	7,7000		271071		Ŭ.	RID DGE	
	18 66	17 68	17 68	52 202	518 518	21200 40000	52 202	CY FT	POROUS BACKFILL WITH GEOTEXTILE FABRIC 6" PERFORATED CORRUGATED PLASTIC PIPE		BRII 9	
	00	24	28	52	518	40010	52	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS			
					25				·			
	1,271	1,017	1,017	3,305	SPECIAL	51900100	3,305	SF	COMPOSITE FIBER WRAP SYSTEM	4		
	182	163	163	508	526	25011	508	SY	REINFORCED CONCRETE APPROACH SLABS WITH OC/OA (T=15"), AS PER PLAN	4		
		605	605	1,210	SPECIAL	53000600	1,210	SF	STRUCTURES (AESTHETIC TREATMENT CONCRETE FORMLINER/STAIN)	4		
		003	003	1,210	JI LUIAL	33000000	1,210	31	STRUCTURES TALSTILL THEATIMENT CONCRETE TOTAL STAIN	7		
	78	70	70	218	613	41201	218	CY	LOW STRENGTH MORTAR BACKFILL, AS PER PLAN	5		
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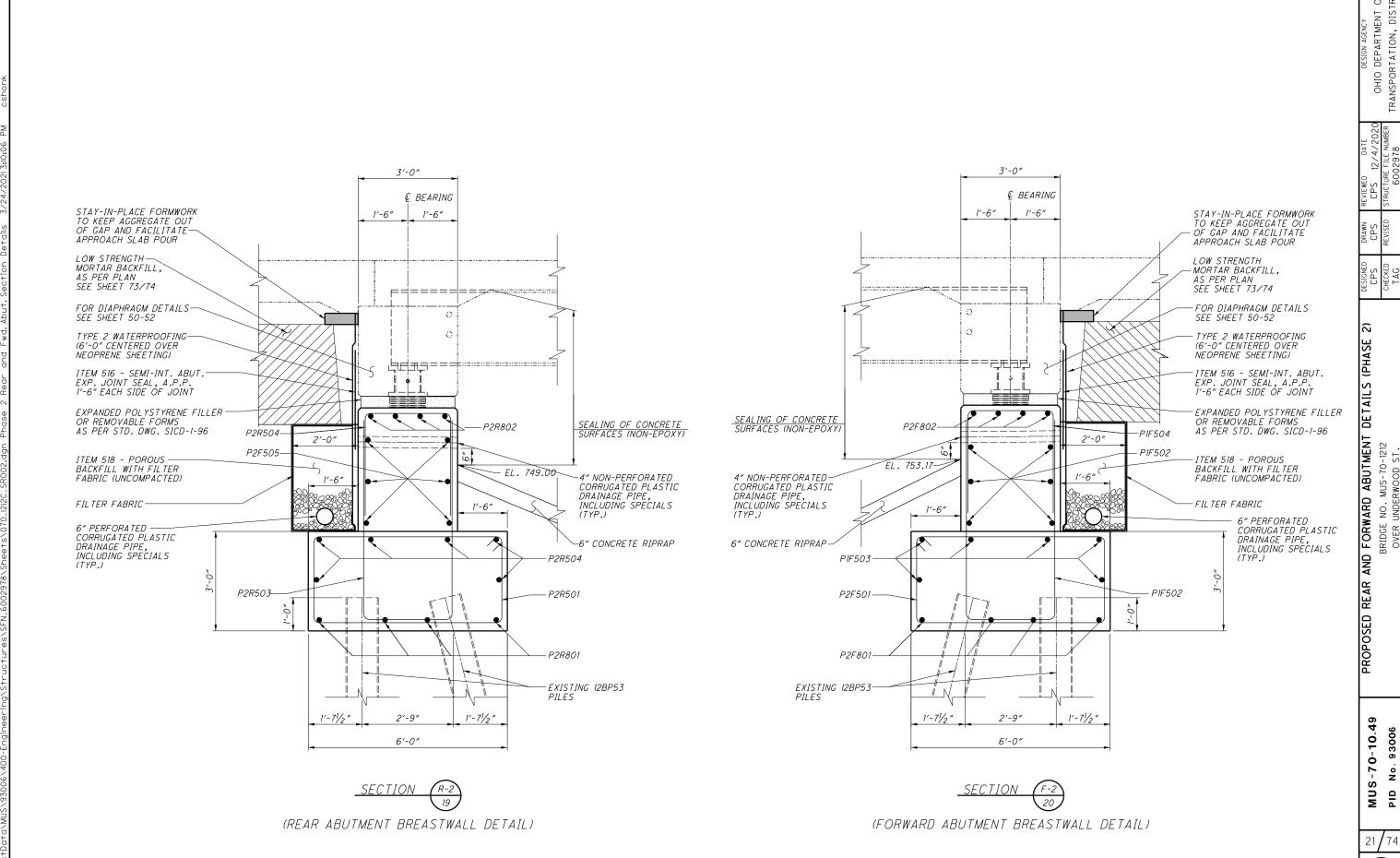
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OHIO DEPARTMENT C
TRANSPORTATION, DISTR

) FORWARD ABUTMENT I BRIDGE NO. MUS-70-1212 OVER UNDERWOOD ST. BRIDGE OVER 1

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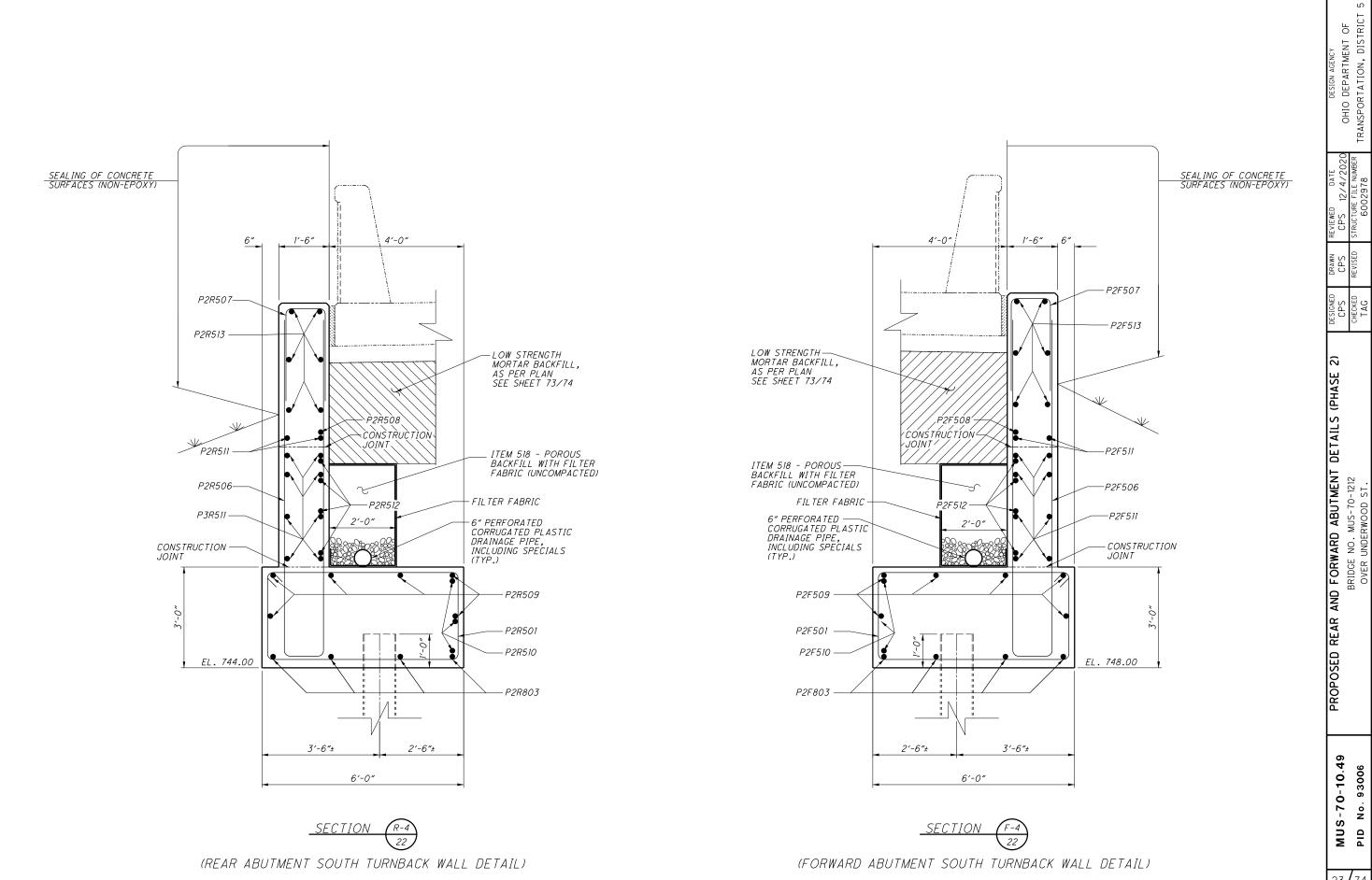
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ABUTMENT MUS-70-1212 ERWOOD ST.

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D FORWARD BRIDGE NO. MI

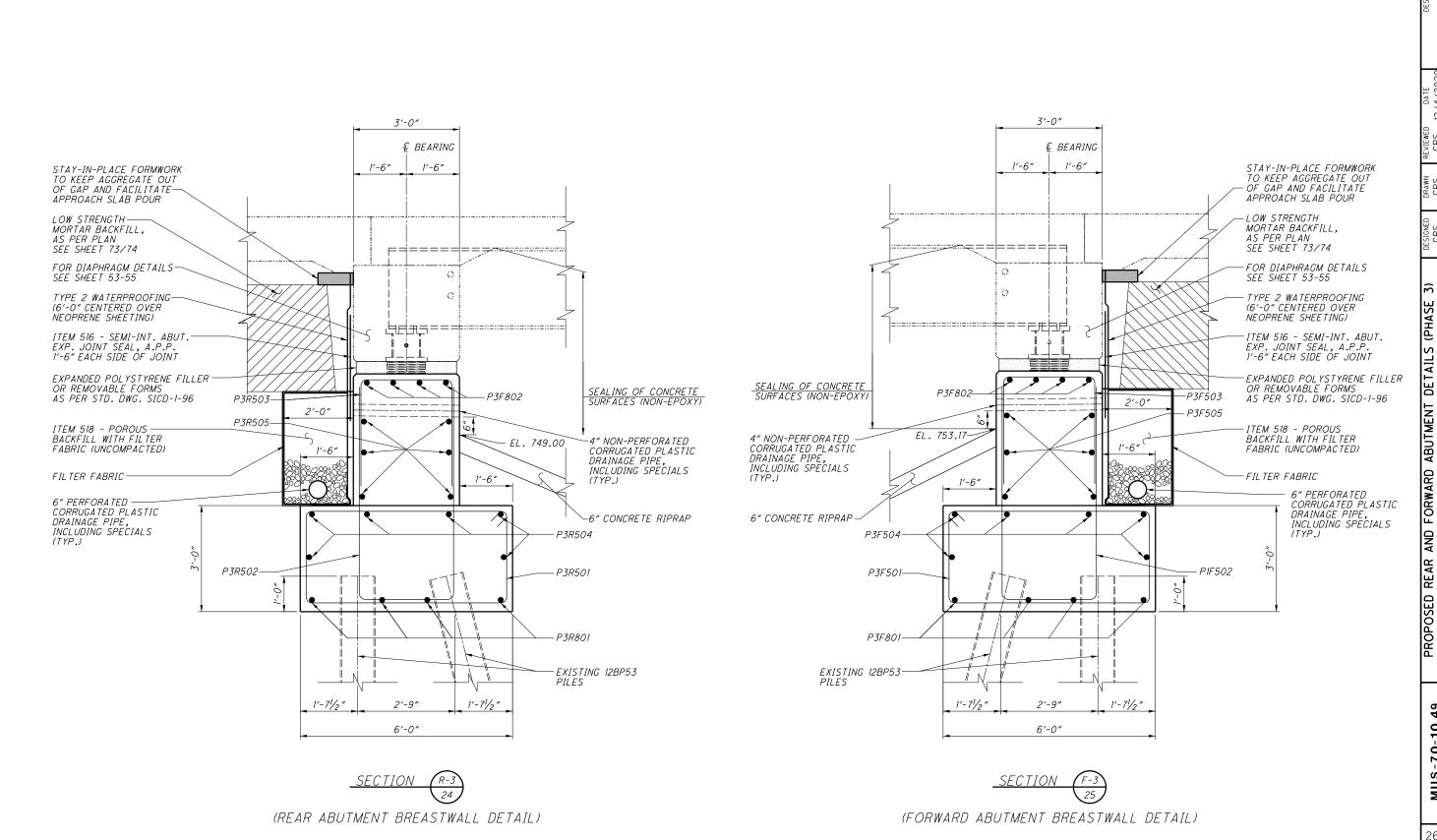
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TRANSPORTATION, DISTR

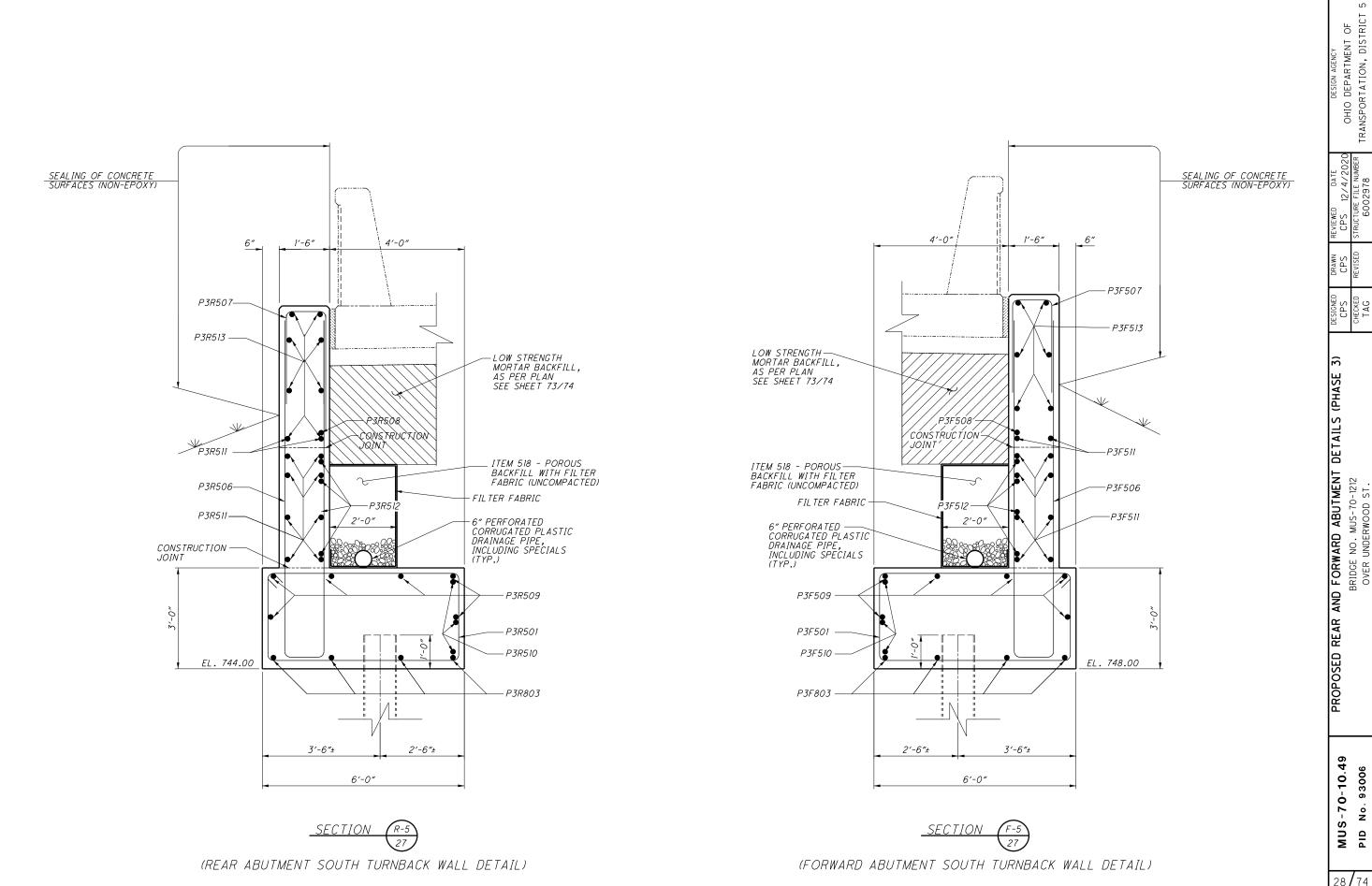
DETAILS ABUTMENT MUS-70-1212 ERWOOD ST.

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PROPOSED

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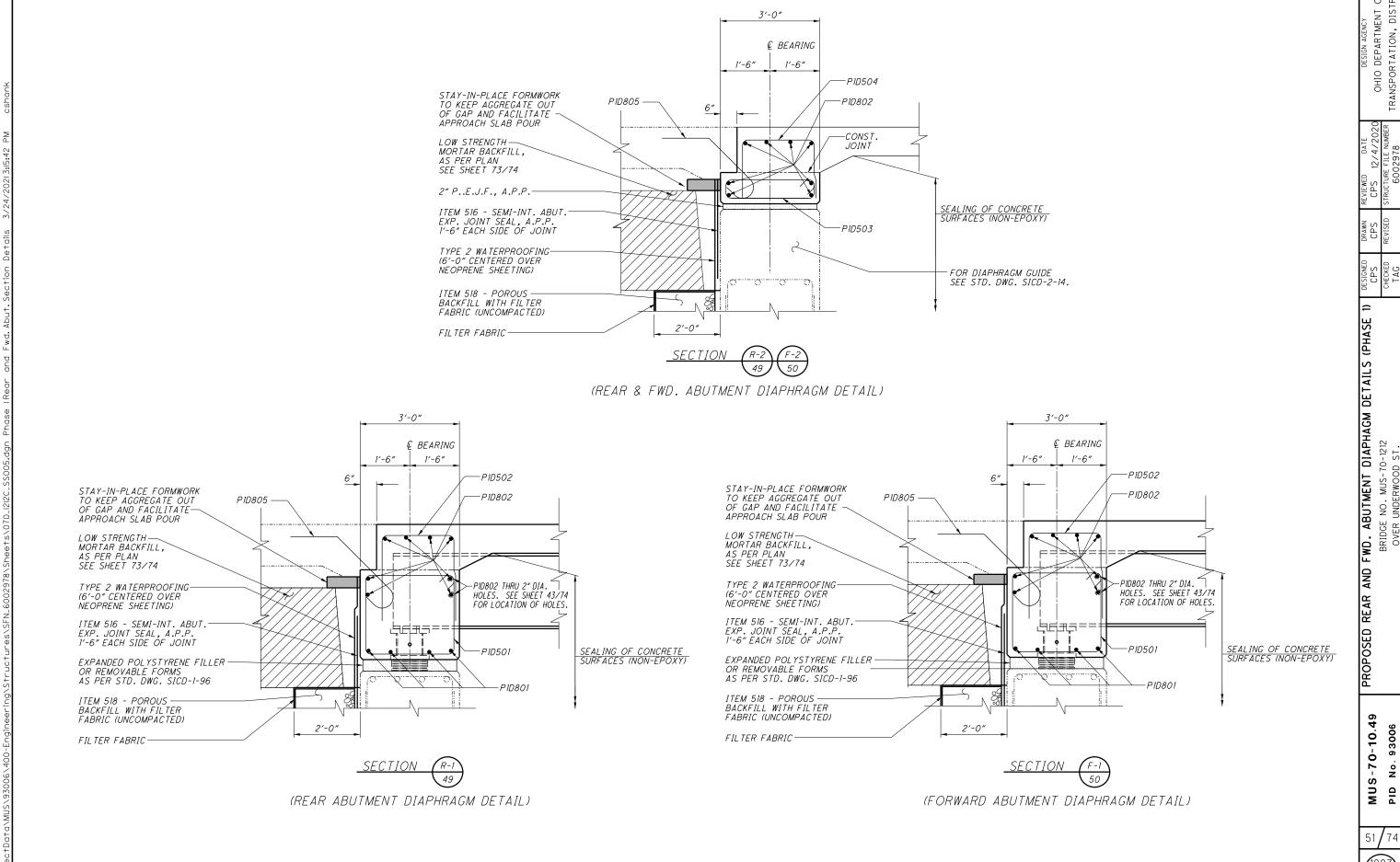


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PROPOSED REAR AND FORWARD ABUTMENT DETAILS (PHASE BRIDGE NO. MUS-70-1212 OVER UNDERWOOD ST.

MUS-70-10.49 PID No. 93006



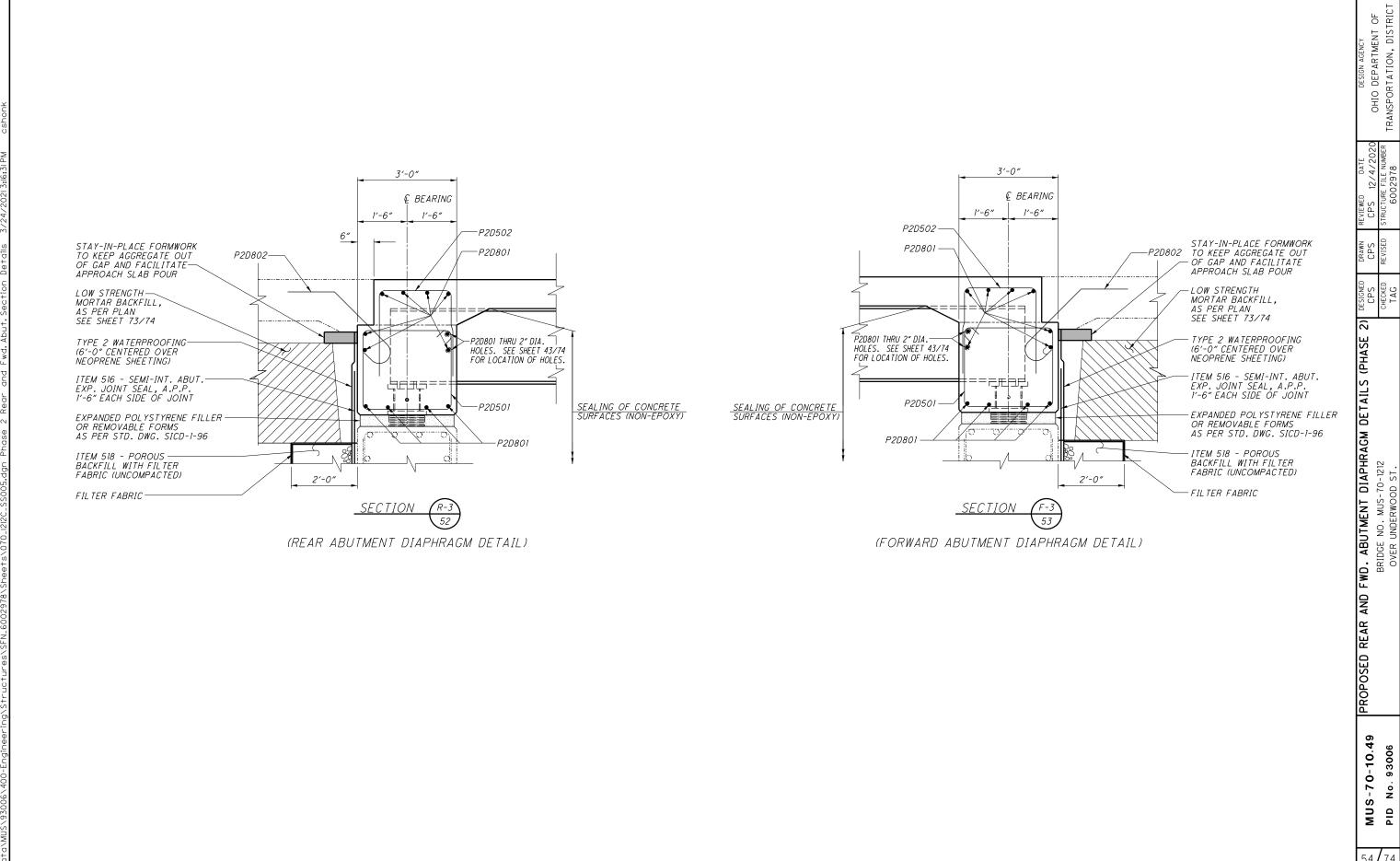
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AND FWD, ABUTMENT DIAPHAGM DETAILS
BRIDGE NO. MUS-70-1212
OVER UNDERWOOD ST.

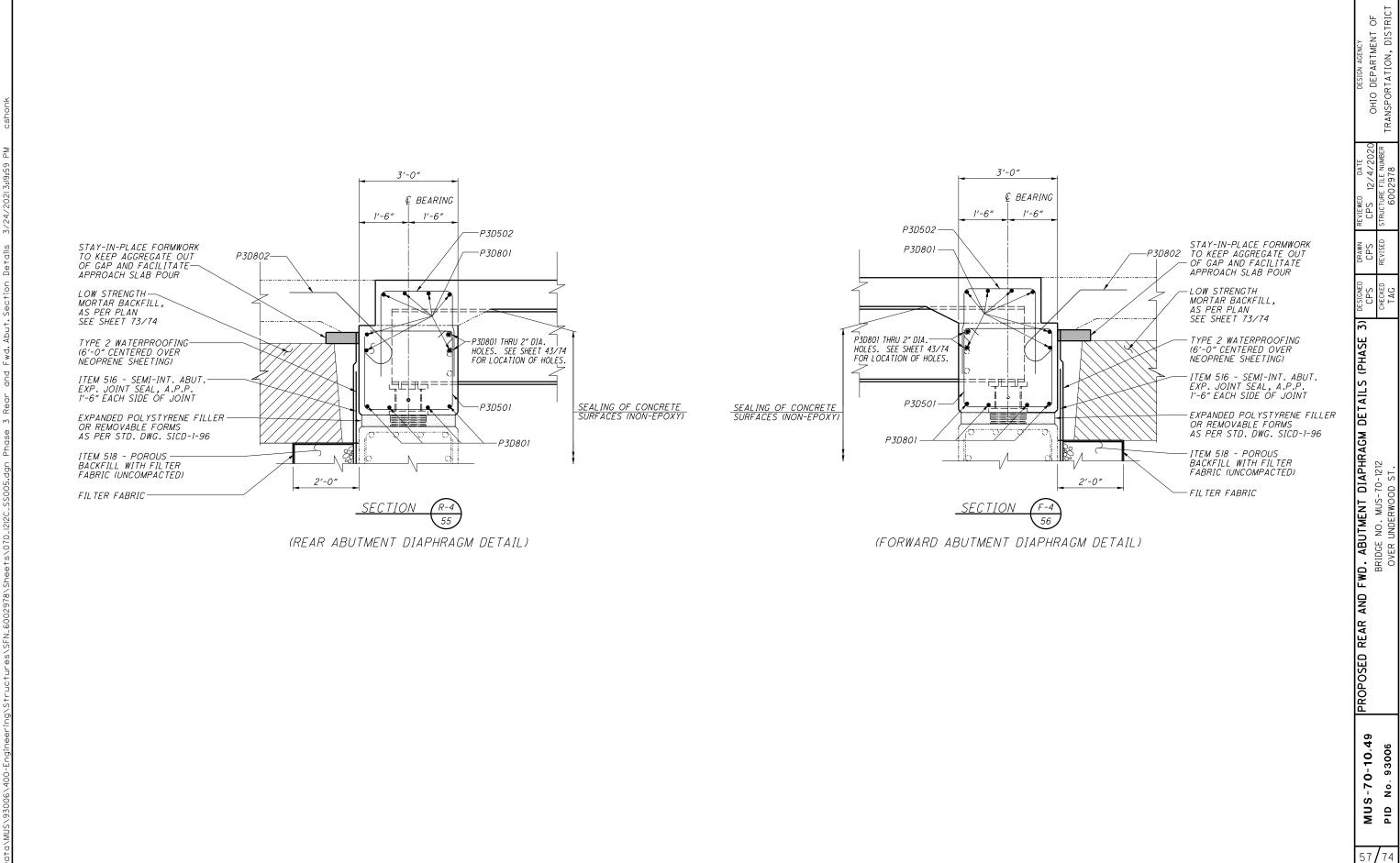
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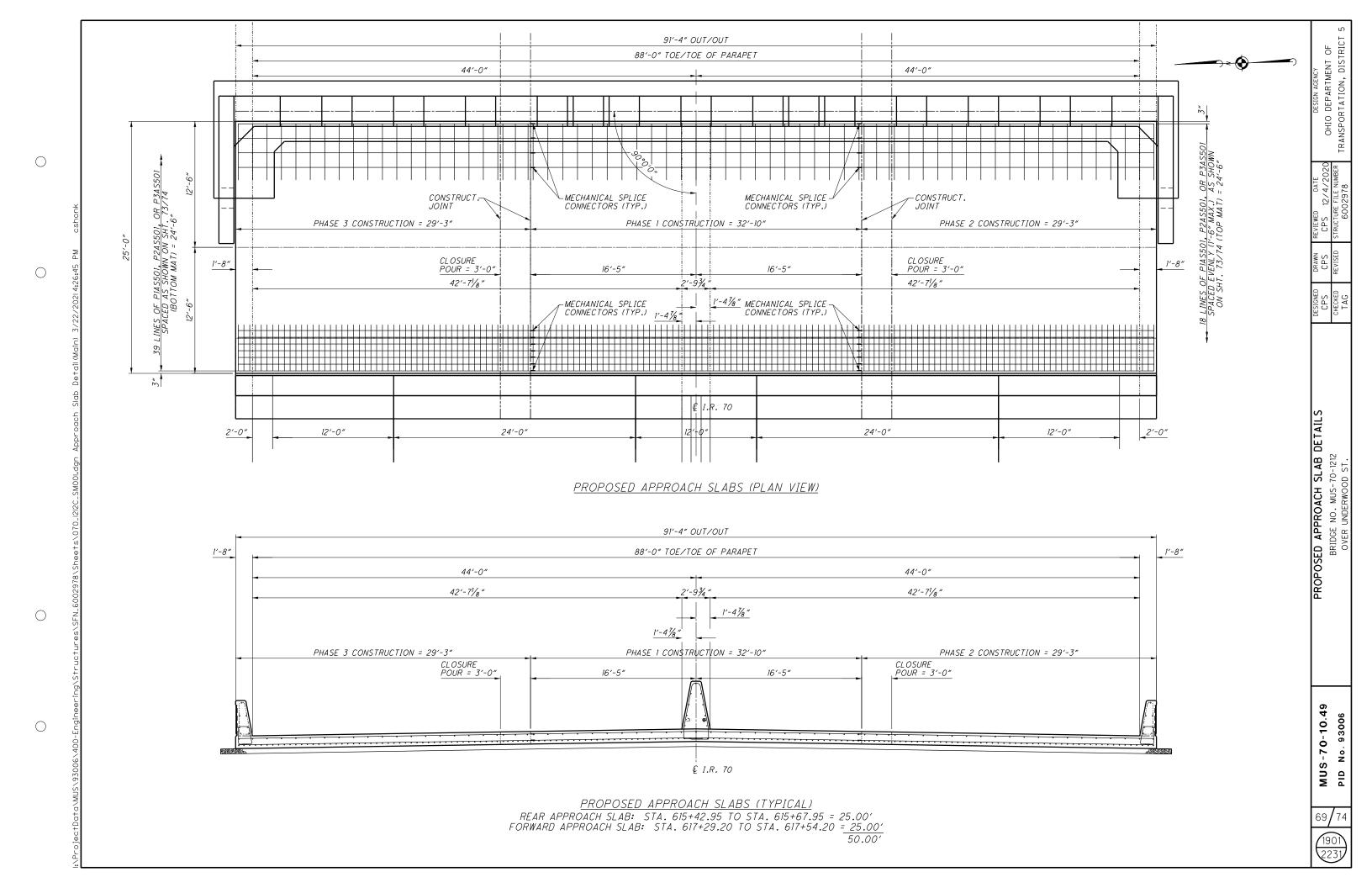
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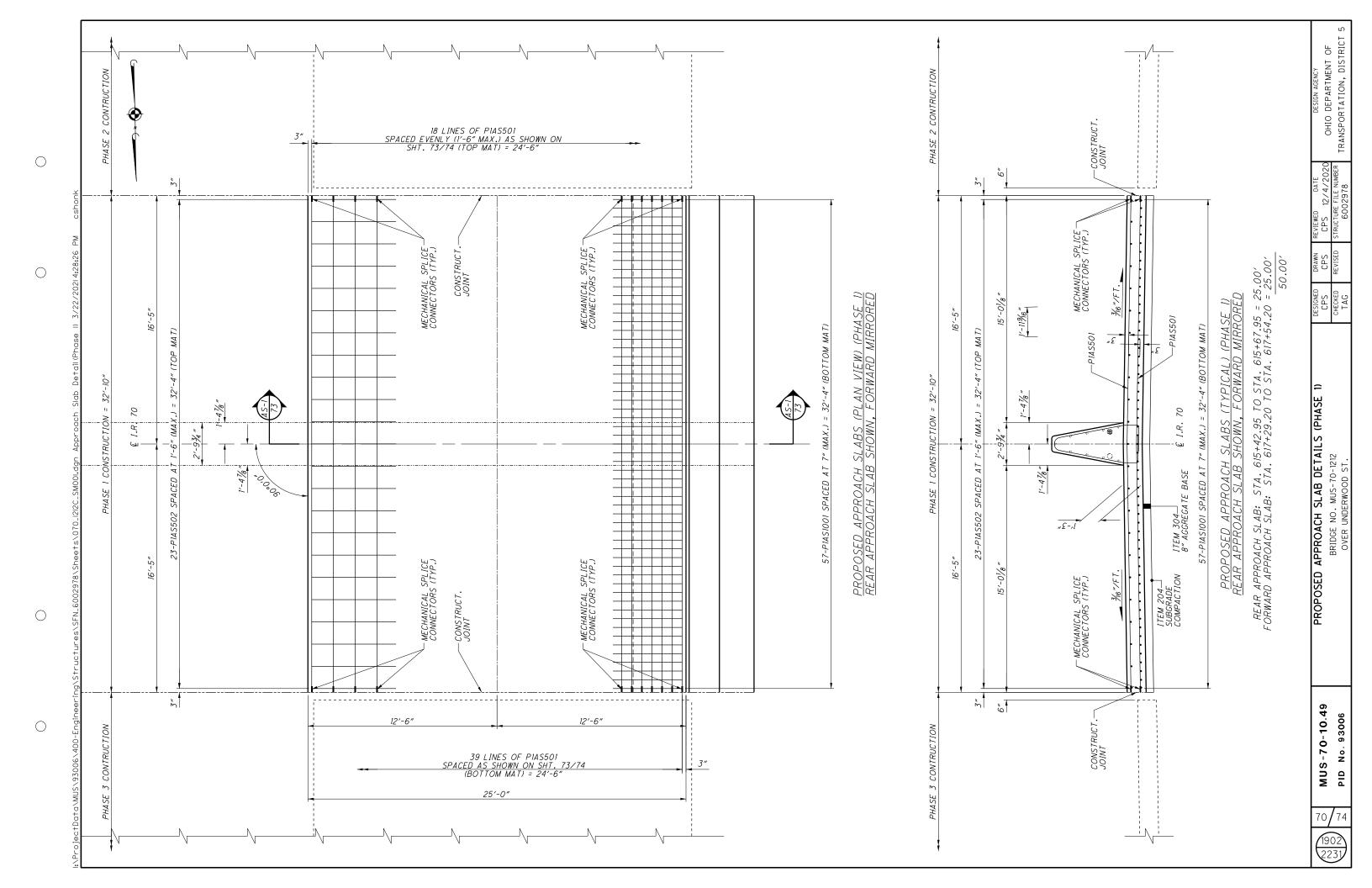
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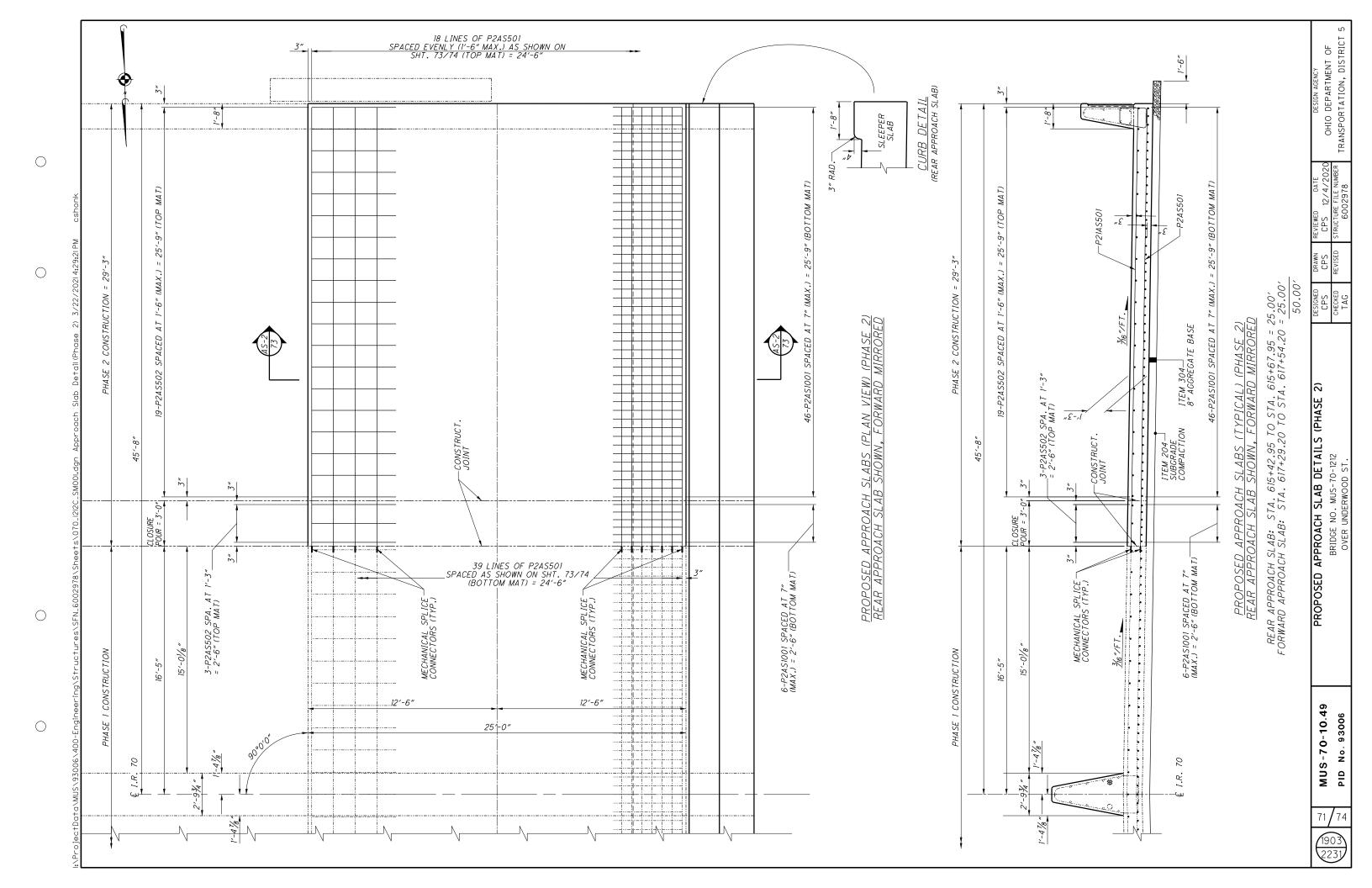


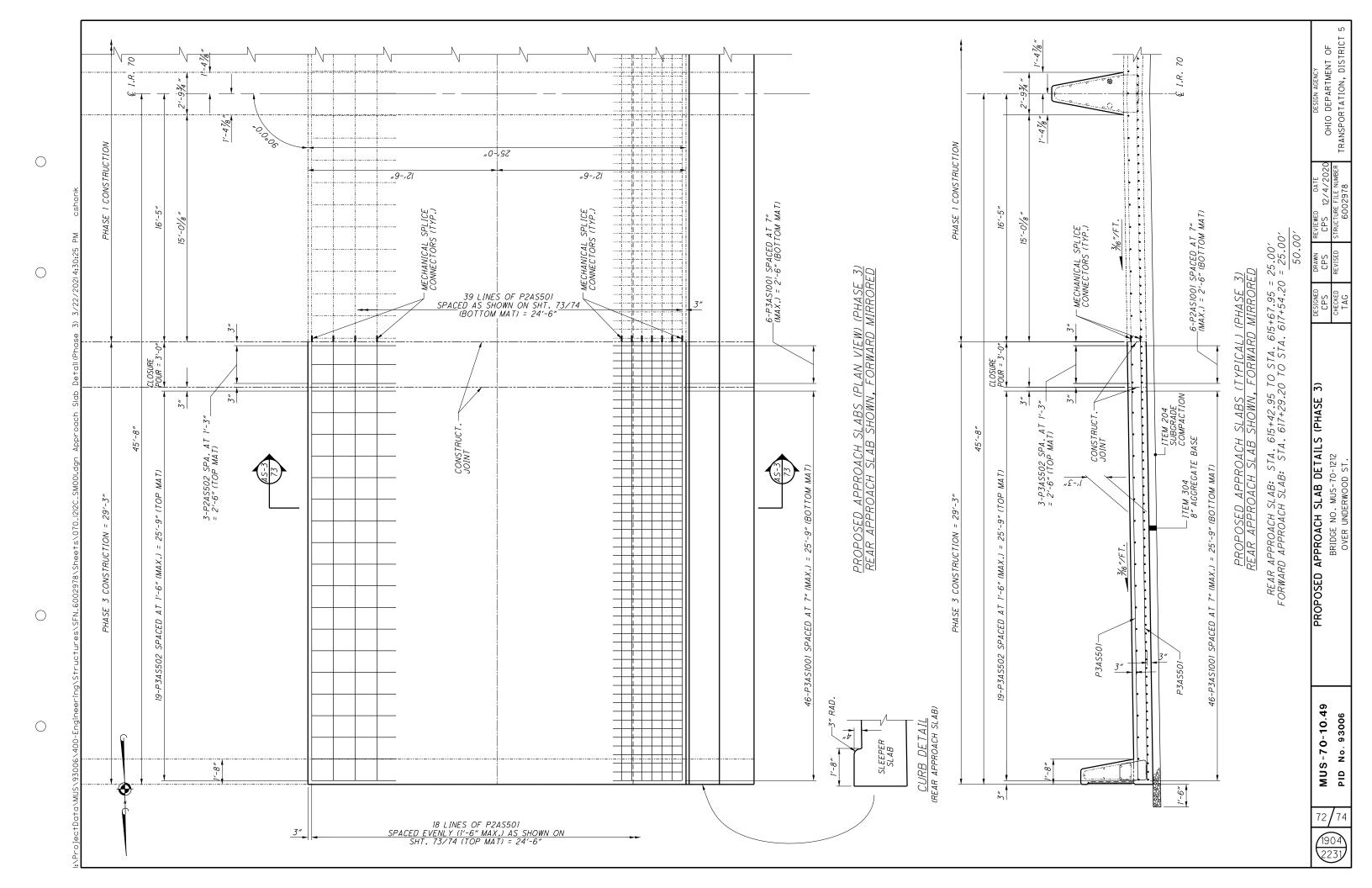
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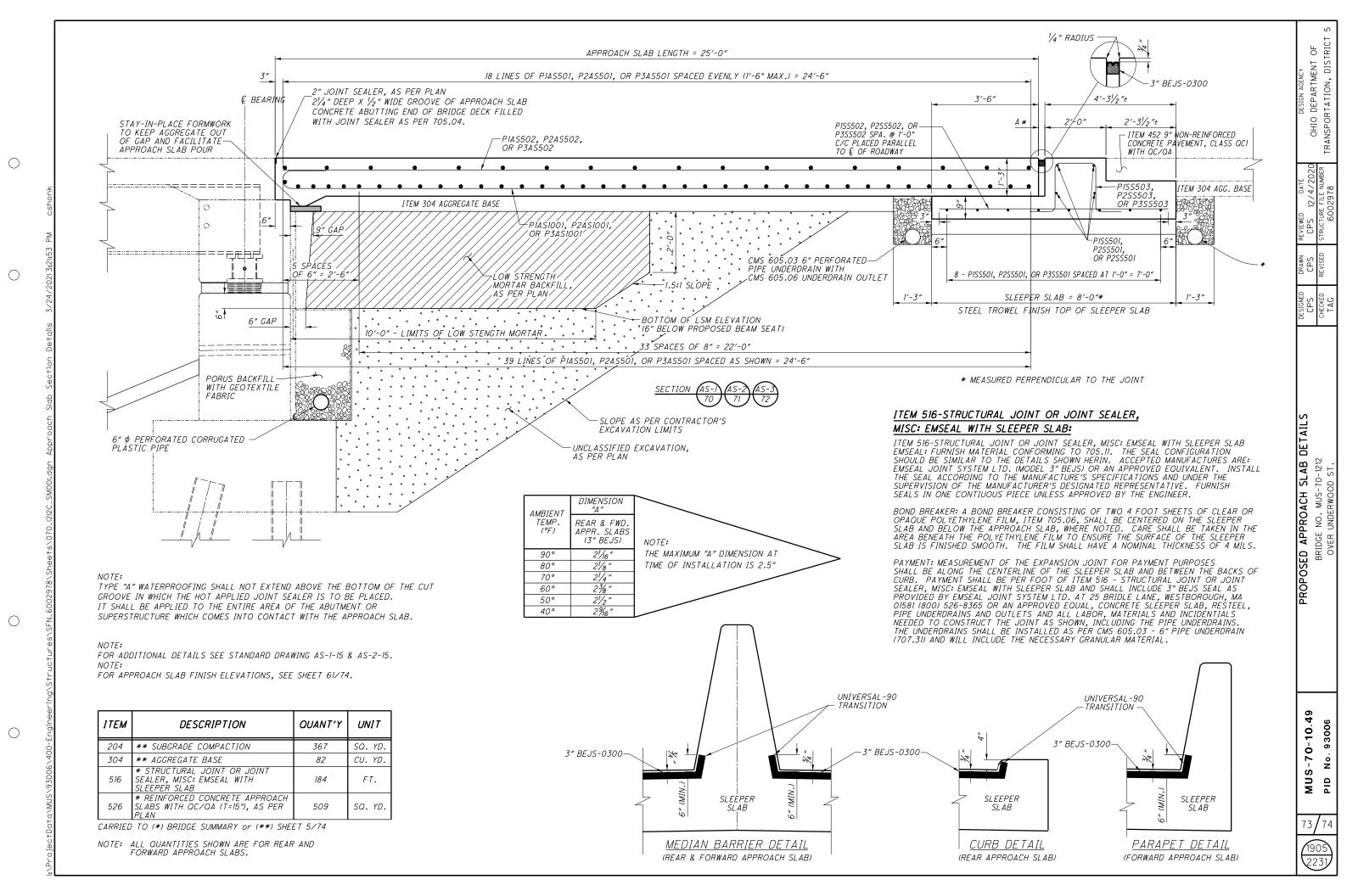
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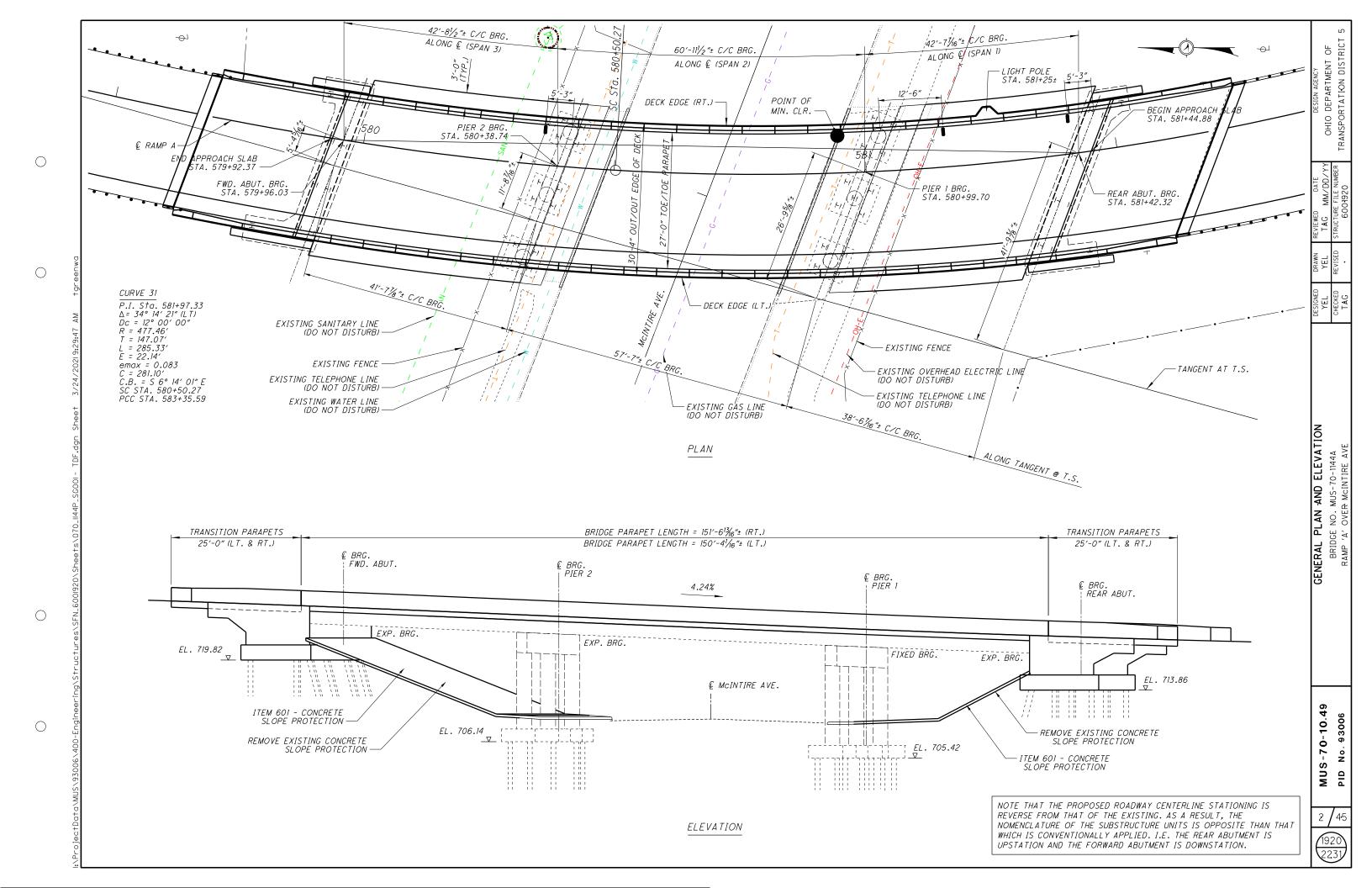


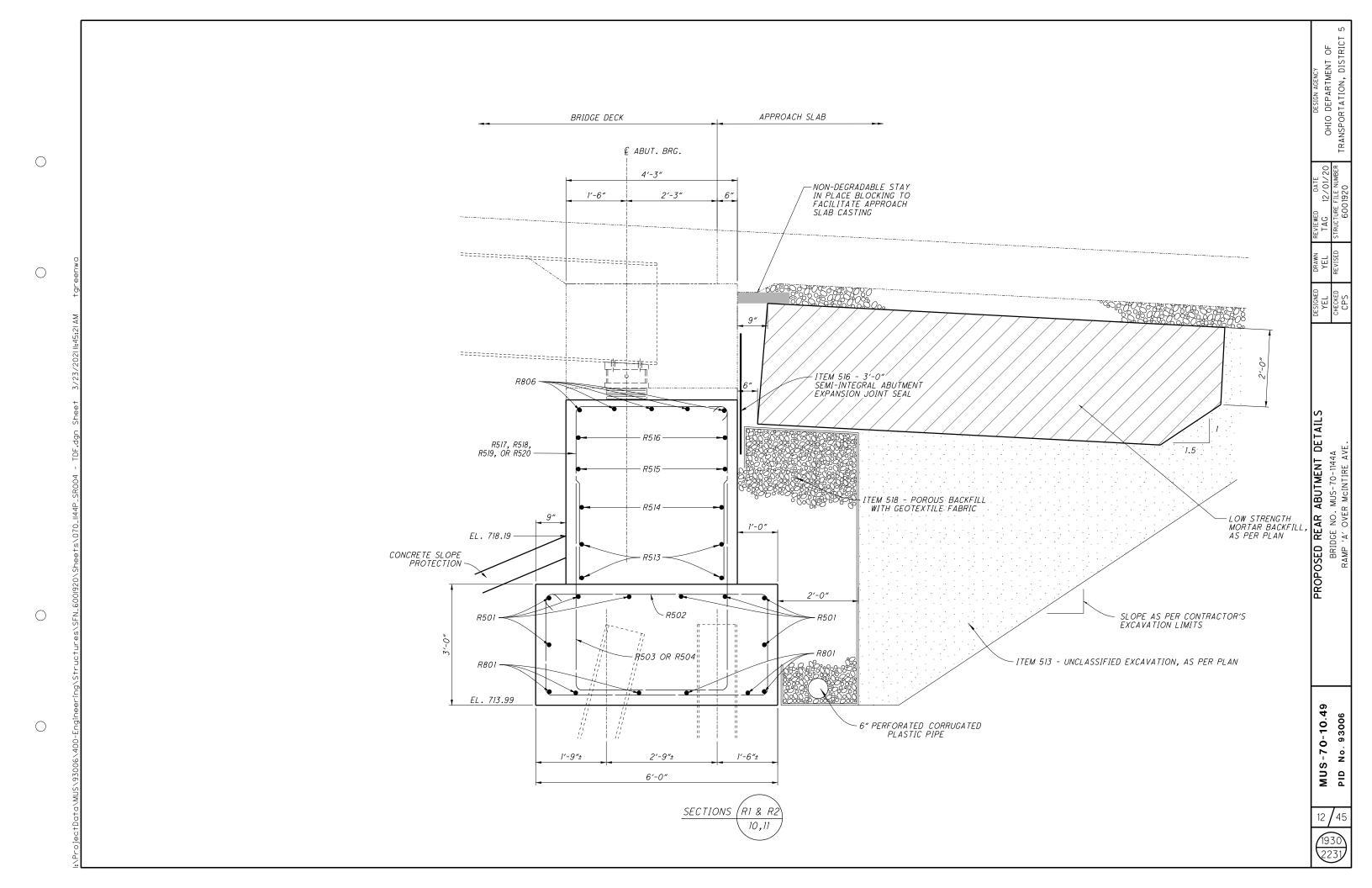


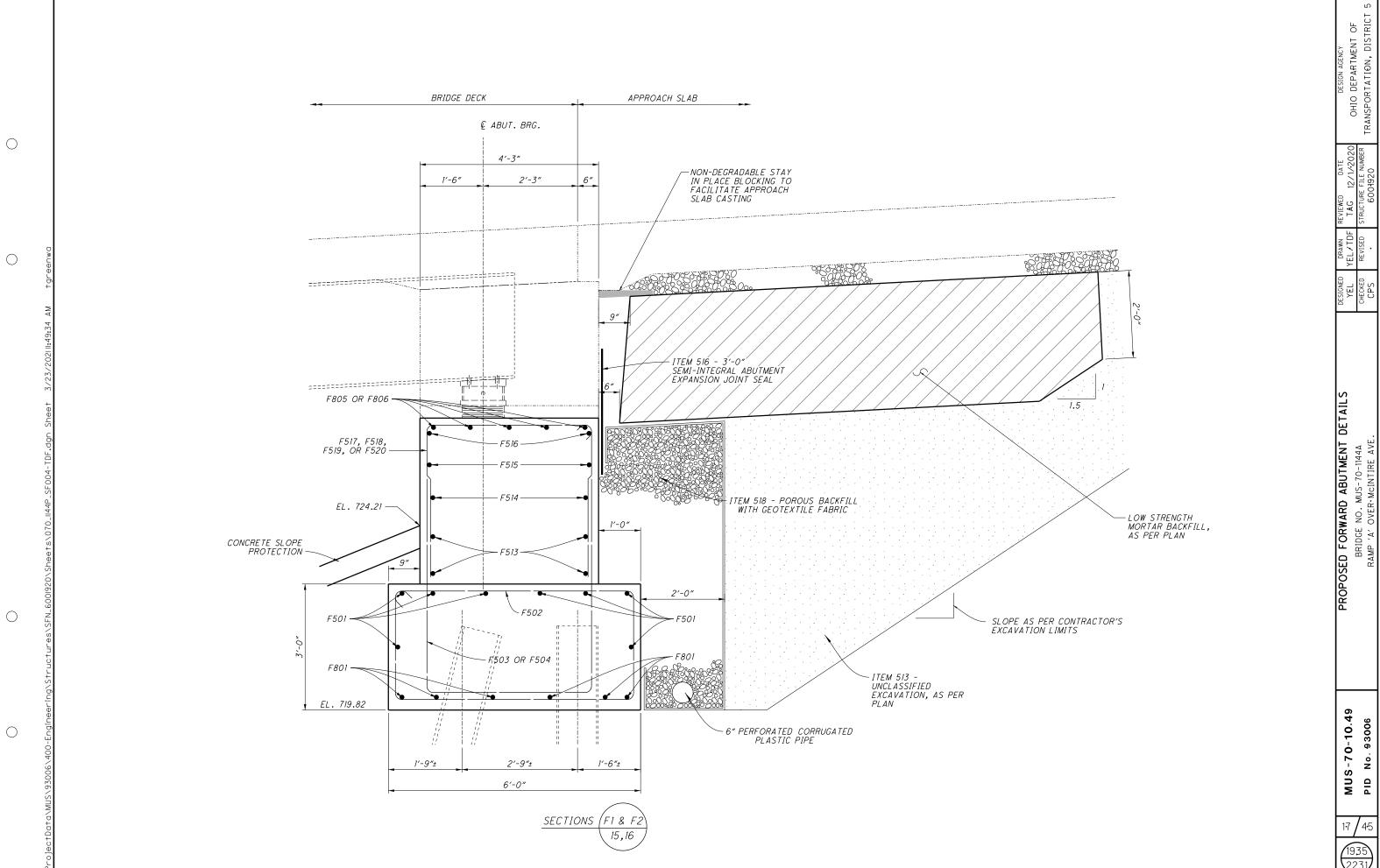


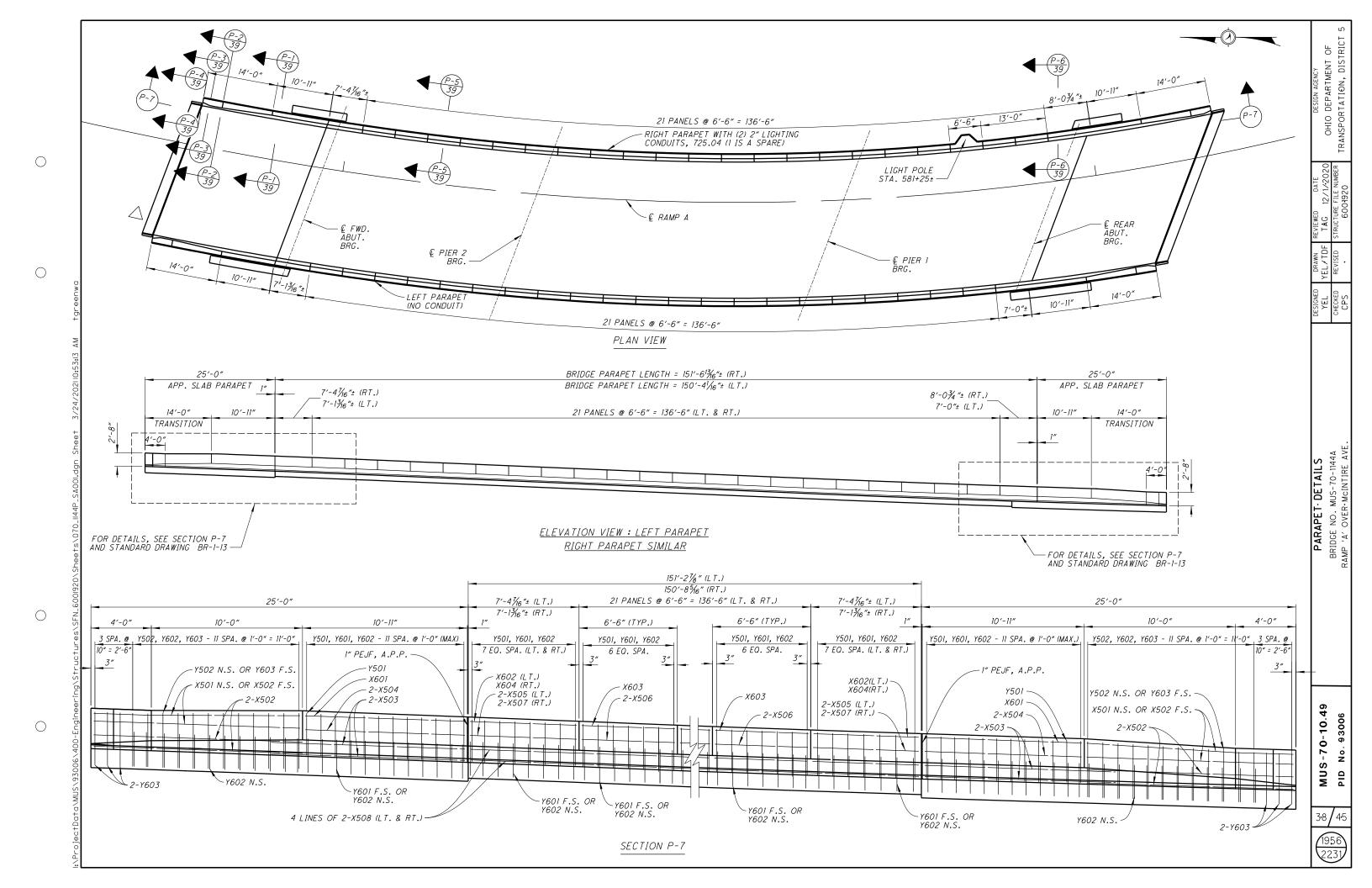


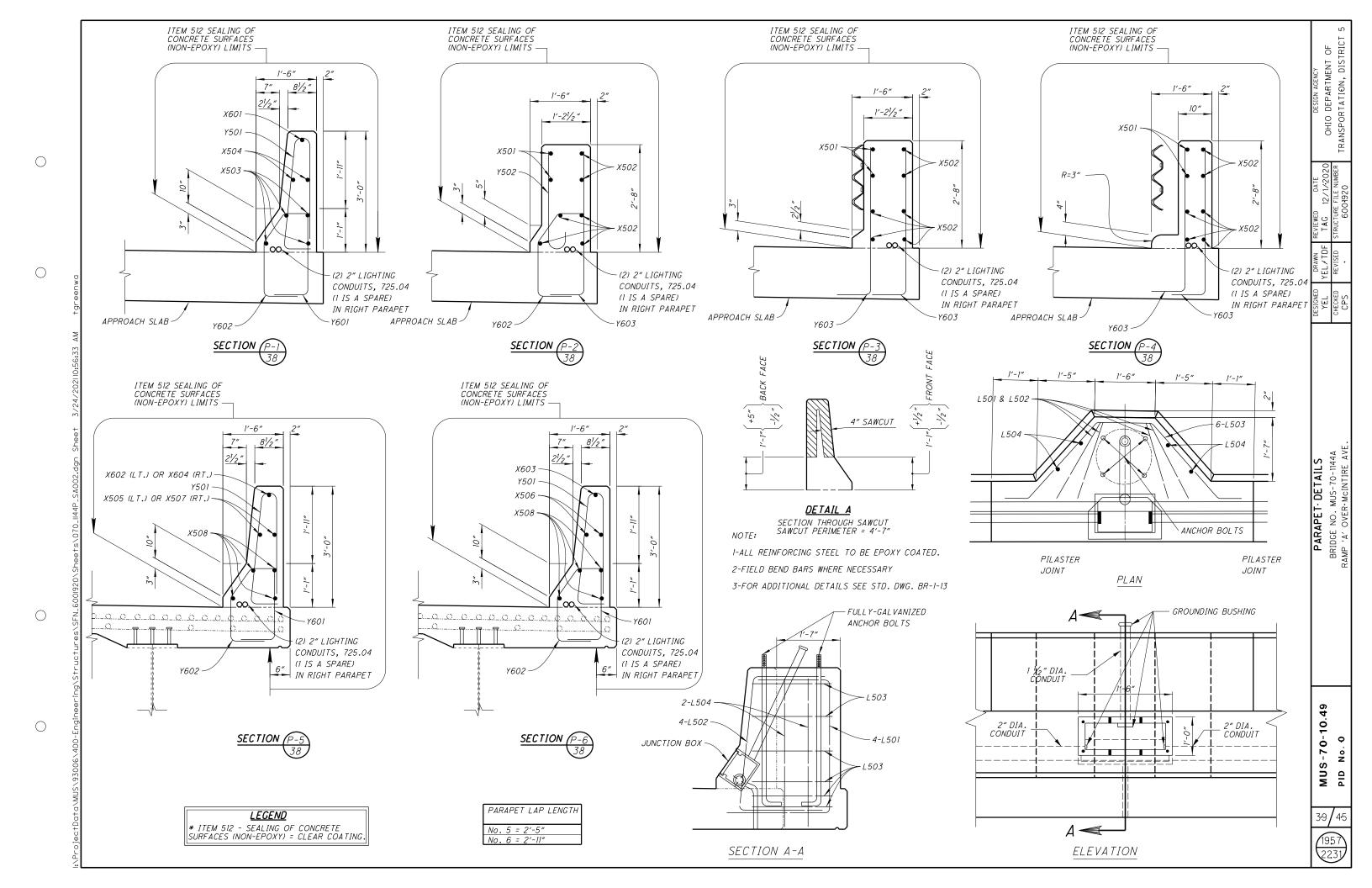


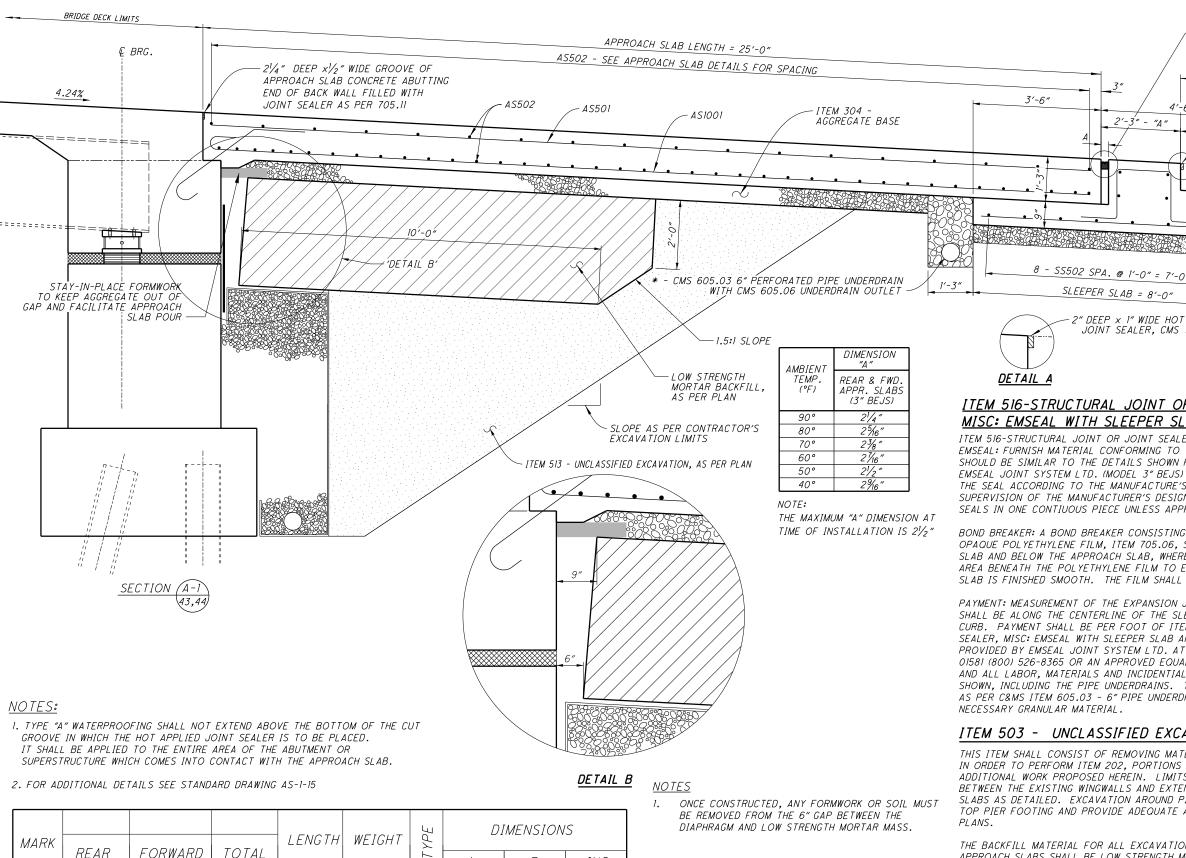












MARK				LENGTH	WEIGHT	TYPE	DIMENSIONS			
	REAR	FORWARD	TOTAL				А	В	INC	
AS501	21	21	42	24'-6"	1073	STR.	24'-6"			
AS502	57	57	114	33'-9"	4013	STR.	33′-9″			
AS1001	52	<i>52</i>	104	26′-1″	11673	16	24'-6"			
			SU	B-TOTAL	16759					

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RE-STEEL TO BE INCLUDED FOR PAYMENT IN ITEM 526 - REINFORCED CONCRETE APPROACH SLABS (T=15"), AS PER PLAN

BENDING	G DIAGRAMS
A	A A
TYPE-16	TYPE-STR

ITEM 516-STRUCTURAL JOINT OR JOINT SEALER, MISC: EMSEAL WITH SLEEPER SLAB:

8 - SS502 SPA. @ 1'-0" = 7'-0"

SLEEPER SLAB = 8'-0"

DEEP x 1" WIDE HOT APPLIED JOINT SEALER, CMS 705.04

2'-3" - "A"

3'-6"

DETAIL A

ITEM 516-STRUCTURAL JOINT OR JOINT SEALER, MISC: EMSEAL WITH SLEEPER SLAB EMSEAL: FURNISH MATERIAL CONFORMING TO 705.11. THE SEAL CONFIGURATION SHOULD BE SIMILAR TO THE DETAILS SHOWN HERIN. ACCEPTED MANUFACTURES ARE: EMSEAL JOINT SYSTEM LTD. (MODEL 3" BEJS) OR AN APPROVED EQUIVALENT. INSTALL THE SEAL ACCORDING TO THE MANUFACTURE'S SPECIFICATIONS AND UNDER THE SUPERVISION OF THE MANUFACTURER'S DESIGNATED REPRESENTATIVE. FURNISH SEALS IN ONE CONTIUOUS PIECE UNLESS APPROVED BY THE ENGINEER.

1/4" RADIUS

2'-3"

'DETAIL A

PAVEMENT LIMIT

1'-3"

ASPHALT CONCRETE

PAVEMENT SS502 @ 1'-0" MAX.

BOND BREAKER: A BOND BREAKER CONSISTING OF TWO 4 FOOT SHEETS OF CLEAR OR OPAQUE POLYETHYLENE FILM, ITEM 705.06, SHALL BE CENTERED ON THE SLEEPER SLAB AND BELOW THE APPROACH SLAB, WHERE NOTED. CARE SHALL BE TAKEN IN THE AREA BENEATH THE POLYETHYLENE FILM TO ENSURE THE SURFACE OF THE SLEEPER SLAB IS FINISHED SMOOTH. THE FILM SHALL HAVE A NOMINAL THICKNESS OF 4 MILS.

PAYMENT: MEASUREMENT OF THE EXPANSION JOINT FOR PAYMENT PURPOSES SHALL BE ALONG THE CENTERLINE OF THE SLEEPER SLAB AND BETWEEN THE BACKS OF CURB. PAYMENT SHALL BE PER FOOT OF ITEM 516 - STRUCTURAL JOINT OR JOINT SEALER, MISC: EMSEAL WITH SLEEPER SLAB AND SHALL INCLUDE 3" BEJS SEAL AS PROVIDED BY EMSEAL JOINT SYSTEM LTD. AT 25 BRIDLE LANE, WESTBOROUGH, MA 01581 (800) 526-8365 OR AN APPROVED EQUAL, CONCRETE SLEEPER SLAB, RESTEEL AND ALL LABOR, MATERIALS AND INCIDENTIALS NEEDED TO CONSTRUCT THE JOINT AS SHOWN, INCLUDING THE PIPE UNDERDRAINS. THE UNDERDRAINS SHALL BE INSTALLED AS PER C&MS ITEM 605.03 - 6" PIPE UNDERDRAIN (707.31) AND WILL INCLUDE THE NECESSARY GRANULAR MATERIAL.

ITEM 503 - UNCLASSIFIED EXCAVATION, AS PER PLAN

THIS ITEM SHALL CONSIST OF REMOVING MATERIALS FROM BEHIND THE EXISTING ABUTMENT IN ORDER TO PERFORM ITEM 202, PORTIONS OF STRUCTURE REMOVED, AS PER PLAN AND ADDITIONAL WORK PROPOSED HEREIN. LIMITS OF THIS EXCAVATION SHALL BE LIMITED BETWEEN THE EXISTING WINGWALLS AND EXTEND TO THE END OF THE PROPOSED APPROACH SLABS AS DETAILED. EXCAVATION AROUND PIER COLUMNS SHALL BE TO THE DEPTH OF THE TOP PIER FOOTING AND PROVIDE ADEQUATE AREA TO PERFORM THE WORK SHOWN IN THESE

THE BACKFILL MATERIAL FOR ALL EXCAVATION BEHIND THE ABUTMENTS AND UNDER THE APPROACH SLABS SHALL BE LOW STRENGTH MORTAR BACKFILL (LSM). LSM. TYPE I SHALL CONFROM TO CMS SECTION 613 AND BE PLACED WITHIN THE LIMITS OF THE APPROACH SLABS AND IT MAY ALSO BE USED TO CONSTRUCT THE SLOPES IN THIS SAME AREA AS LONG AS IT IS COVERED WITH ONE FOOT OF SOIL TO MATCH EXISTING GRADE. THE AREA FOR THE POROUS BACKFILL WITH GEOTEXTILE FABRIC SHALL BE FORMED PRIOR TO THE PLACEMENT OF THE LSM. TYPE I BACKFILL AND PLACEMENT OF THE GEOTEXTILE FABRIC SHALL BE PLACED AFTER THE LSM HAS CURED AND THE FORMS HAVE BEEN REMOVED.

PAYMENT TO PREFORM ALL THE WORK OUTLINED ABOVE SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 503 - UNCLASSIFIED EXCAVATION, AS PER PLAN AND SHALL INCLUDE ALL LABOR. EQUIPMENT, MATERIALS, AND INCIDENTIALS NECCESSARY TO COMPLETE THE WORK UNLESS SEPERATELY ITEMIZED IN THE PLANS.

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DETAIL:

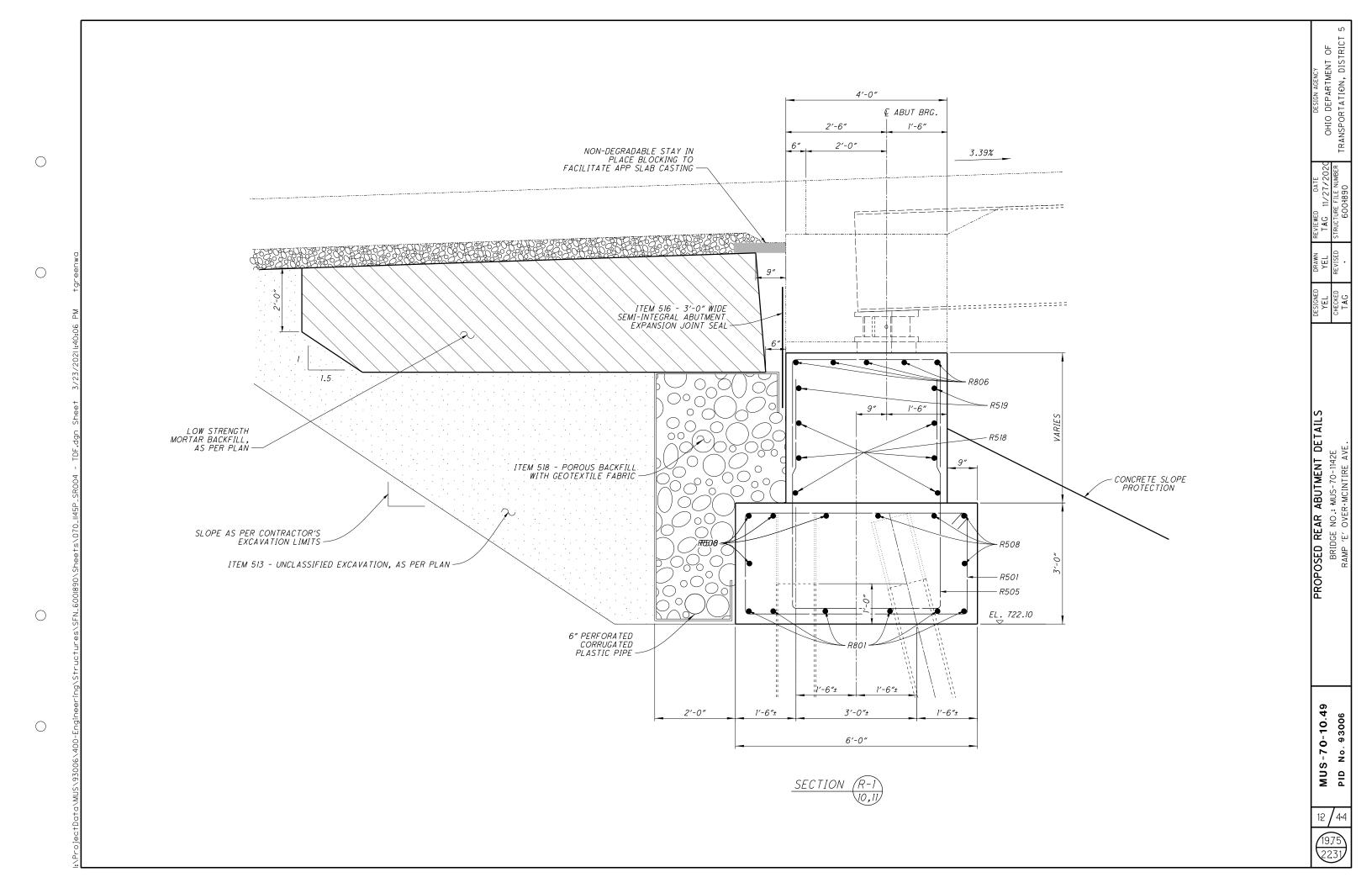
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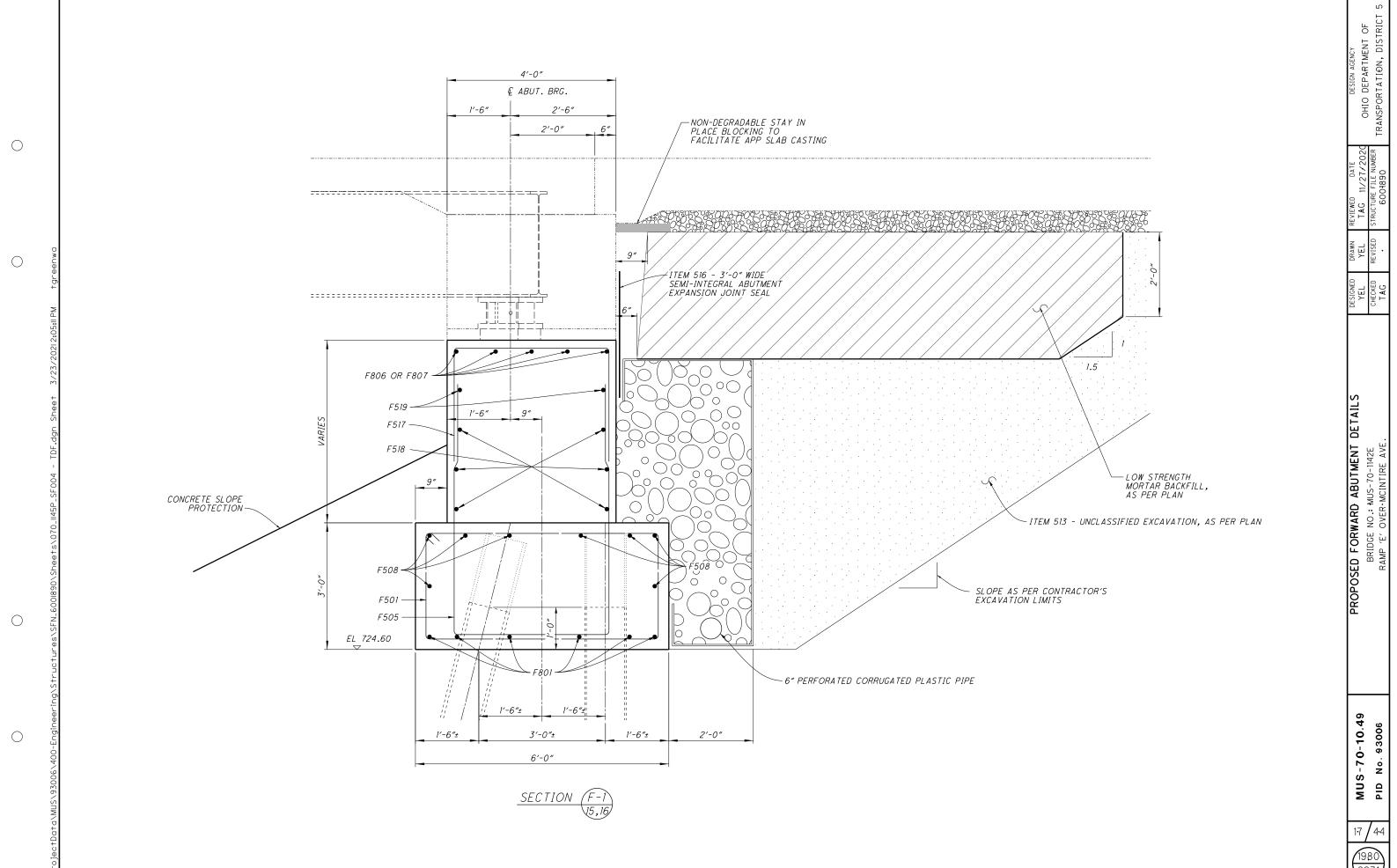
APPROACH 90. MUS-70-1144

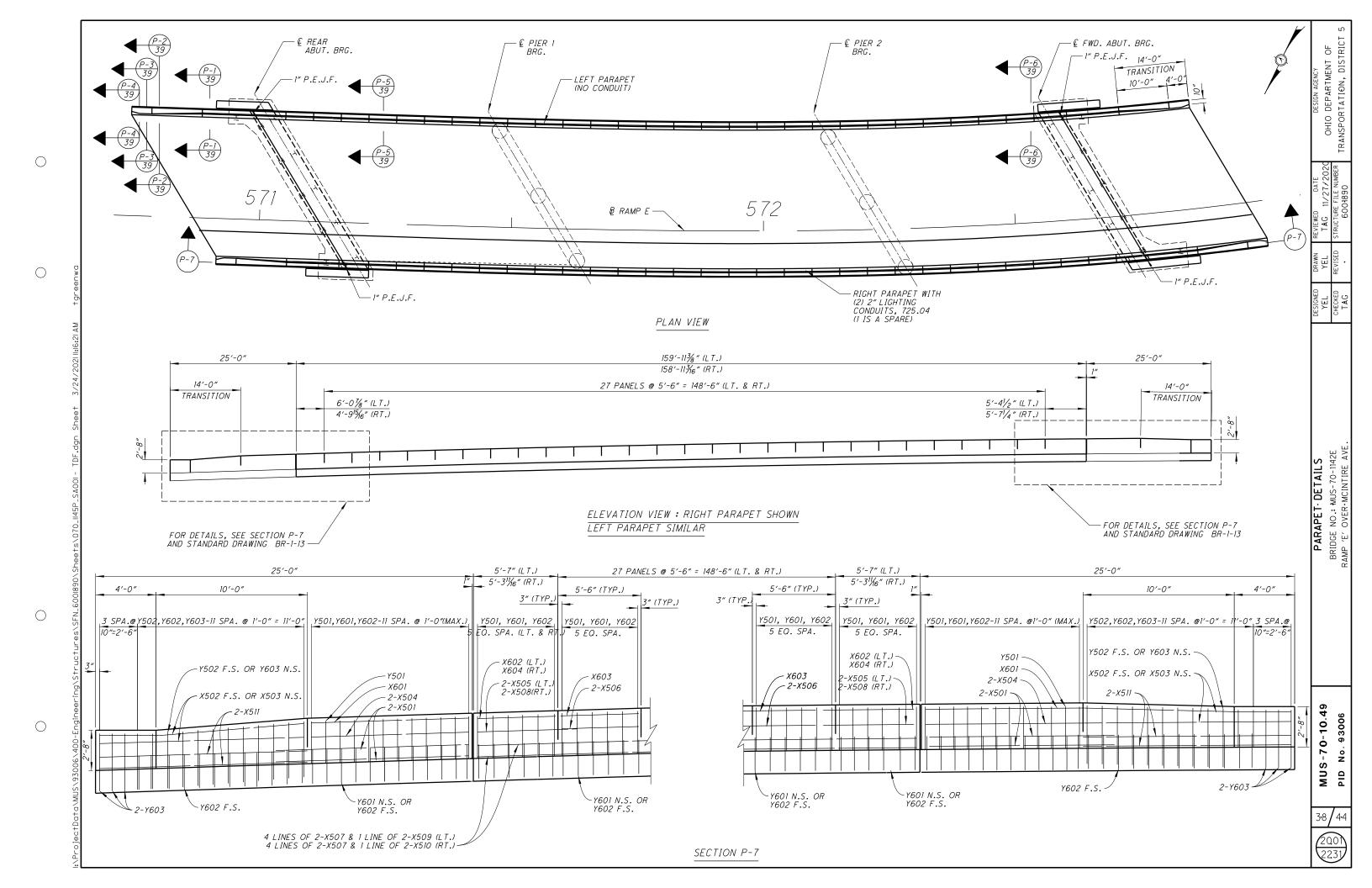
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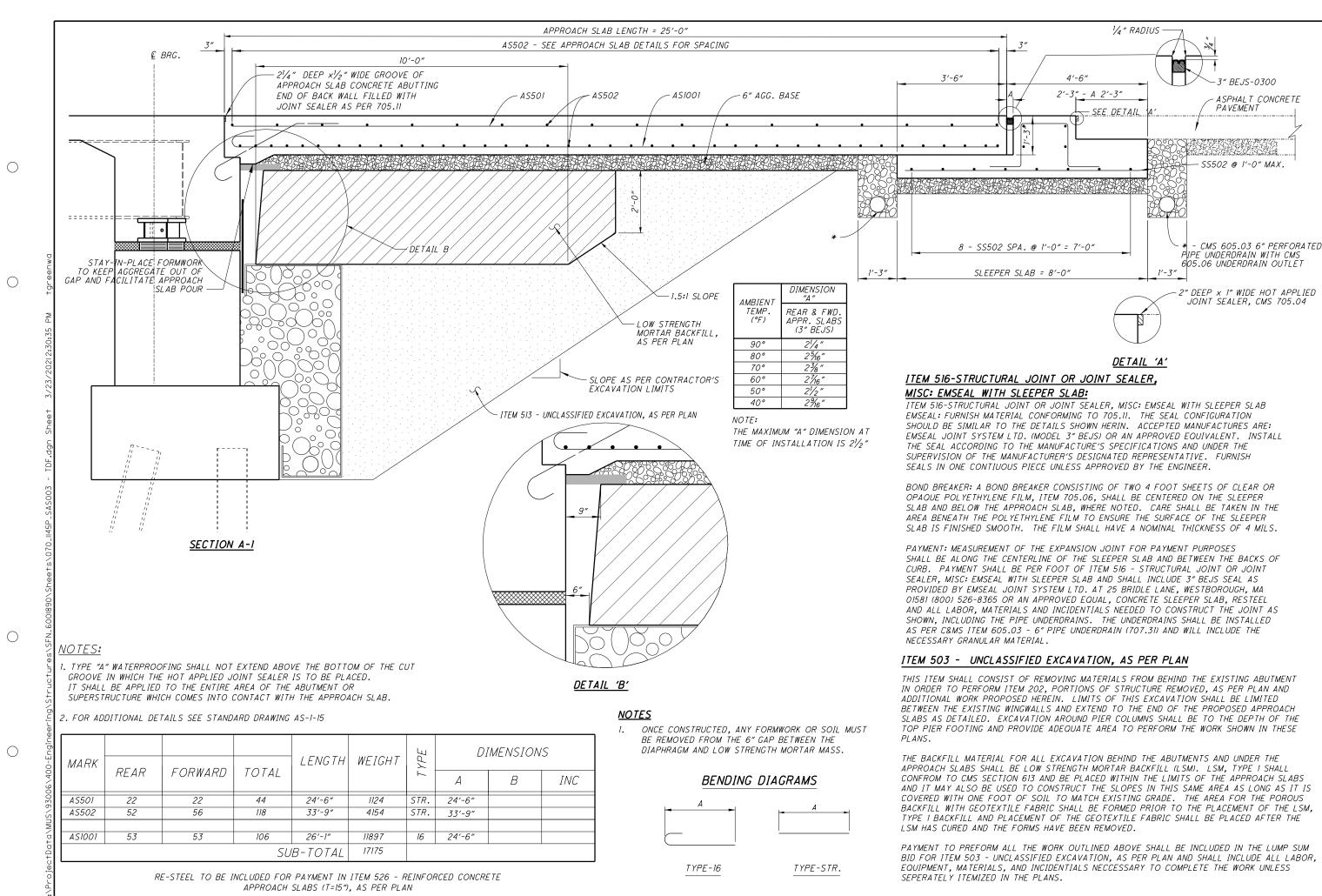
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OHIO DEPARTMENT FRANSPORTATION, DIS

DETAIL

SLAB

APPROACH SL O.: MUS-70-1142E VER-MCINTIRE AVE

FORWARD APF BRIDGE NO.: W RAMP 'E' OVER:N

REAR

DIS.

THE STAINING OF THE PATTERNED CONCRETE SURFACES SHALL BE DONE PRIOR TO APPLICATION OF ITEM 512 - SEALING OF CONCRETE SURFACES (NON-EPOXY). THE STAIN COLORED CONCRETE, USING LITHOCHROME TINTURA STAIN, SHALL BE LAYERED TO ACHIEVE A VARIEGRATED AFFECT USING COLORS AS PROVIDED BY L.M. SCOFIELD COMPANY, DOUGLASVILLE, GEORGIA (800) 800-9900 OR APPROVED EQUAL. A VARYING COMBINATION OF COLORS SHALL BE UTILIZED IN ORDER TO BEST DUPLICATE THE APPEARANCE OF INDIGENOUS SANDSTONE. THE STAIN SHALL BE APPLIED BY AN AIR APPLIED, EVEN AND CONTROLED, METHOD AS RECOMMENDED BY THE MANUFACTURER AND APPROVED BY THE ENGINEER. THE CONTRACTOR WILL NOT ALLOW OVERSPRAY OR RUNS TO RUIN THE APPEARANCE OF THE ADJACENT CONCRETE, WHICH SHALL REMAIN UNSTAINED. SEE AESTHETIC DETAIL SHEETS FOR THE LOCATION OF THE SURFACES TO BE

THE CONTRACTOR OR AN APPROVED SUB-CONTRACTOR MUST SUPPLY DOCUMENTATION STATING THAT THEY HAVE AT LEAST 5 YEARS EXPERIENCE IN CONCRETE STAINING WITH PAST WORK REFERENCES CITED.

GENERAL PARAMETERS OF THE PATTERENED SURFACE TEXTURE AND COLOR ARE GIVEN HEREIN; HOWEVER, FINAL BASIS FOR APPROVAL WILL BE PROVIDED BY A EXISTING BRIDGE EXAMPLE. THE PHYSICAL LOCATION OF THIS EXAMPLE IS:

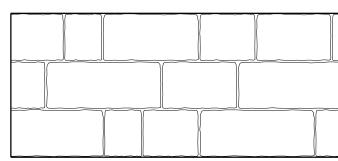
BRIDGE NO. COS-541-19.18 SFN: 1602404 COSHOCTON, OH 43812 COORDINATÉS = 40.2751760, -81.8763820

ALL CONCRETE WORK MUST BE COMPLETED AND CURED FOR A MINIMUM OF 28 DAYS BEFORE THE STAIN IS APPLIED. SURFACE PREPARATION SHALL BE AS PER CMS 512.03 F

TWO FULL SCALE, DIFFERENTLY PATTERNED, STAINED AND SEALED, PRECONSTRUCTION TEST PANELS SHALL BE PROVIDED FOR APPROVAL BY THE DIRECTOR. IF THE TEST PANELS DO NOT MEET THE APPROVAL OF THE DIRECTOR, THE RESULTS MAY BE GROUNDS TO REJECT THE PROPOSED PANEL SURFACE CHOSEN. THE TEST PANELS WILL BE PROVIDED REPEATEDLY, AS NECCESSARY, UNTIL APPROVAL IS GRANTED. FIVE FEET BY FIVE FEET TEST PANELS SHALL BE PROVIDED. THE MOCK-UPS SHALL HAVE THE SAME APPLIES THAT THE THEORY OF THE PANELS SHALL HAVE THE SAME ARCHITECTURAL RELIEF, THICKNESS, PATTERN, AND COLOR/SEALANT INTENDED TO BE USED ON THE PROJECT. THE PANELS SHALL BE OF THE SAME CEMENT, AGGREGATE SOURCE, AND CONCRETE SEALANT THAT WILL BE USED TO CONSTRUCT THE PROJECT. AFTER APPROVAL THE CONCRETE TEST PANELS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.

MEASUREMENT: ITEM SPECIAL 530 STRUCTURES (AESTHETIC TREATMENT CONCRETE FORMLINER/STAIN) SHALL BE MEASURED IN SO. FT. AND SHALL BE DEFINED BY THE AREAS THAT ARE DETAILED FOR THE APPROVED PATTERNED AREA.

ALL WORK INCLUDING SURFACE PREPARATION, STAINING AND OTHER MATERIALS REQUIRED TO COMPLETE THIS WORK SHALL BE INCLUDED WITH THE ITEMIZED PAYMENT FOR ITEM SPECIAL 530 STRUCTURES (AESTHETIC TREATMENT CONCRETE



ARCHITECTURAL SURFACE - ELEVATION

THE FOLLOWING SHALL BE USED: THE POLLOWING SHALL BE USED.

THE PATTERN AND TEXTURE SHALL DUPLICATE THE APPEARANCE OF RECTANGULAR CUT AND HAND HEWN SANDSTONE THAT IS DRY LAID (WITH NO MORTAR JOINTS).

THE BRIDGE RAILING SHALL HAVE 3 COURSES WITH A TOTAL HEIGHT EQUALING 3 FT.

TYPICAL STONE/COURSING HEIGHTS AT THE ABUTMENTS SHALL VARY (SEE PLAN DETAILS PERTAINING TO THESE). THE PATTERN SHALL BE RANDOMIZED WITHIN THE

ITEM SPECIAL - 530 - STRUCTURE: AESTHETIC TREATMENT (CONCRETE FORMLINER/STAIN) (CONTINUED)

THE FOLLOWING FORMLINER SHALL BE USED:

COMPANY NAME:	PANEL SURFACE TREATMENT:	SPECIFICATIONS:
SPEC FORMLINERS, INC.	RECTANGULAR CUT, HAND HEWN, & DRY LAID SANDSTONE (CUSTOM)	MAX RELIEF 1½" AVERAGE RELIEF 1" STONE LENGTHS 1' TO 3'
CUSTOM ROCK INTERNATIONAL	RECTANGULAR CUT, HAND HEWN, & DRY LAID SANDSTONE (CUSTOM)	MAX RELIEF 11/2" AVERAGE RELIEF 1" STONE LENGTHS 1' TO 3'
APPROVED EQUAL	APPROVED EQUAL	APPROVED EQUAL

AESTHETIC WORK ON BR. NO. MUS-60G-0033 AND ALL OTHER BRIDGES WITH AESTHETIC RAILING AS DETAILED IN THESE PLANS SHALL MATCH IDENTICALLY.

ITEM 519 - COMPOSITE FIBER WRAP SYSTEM

REFER TO PROPOSAL NOTE 519 FOR ITEM SPECIFICATIONS NOT GIVEN HEREIN. THE REQUIRED CONFINING STRESS DUE TO FRP JACKET (f)) WILL BE 0.150 FOR THE HEIGHT SHOWN ON SHEET 22/69 THRU 27/69. THE FINAL URETHANE (OR SYSTEM SPECIFIED) COATING SYSTEM APPLICATION COLOR SHALL BE FEDERAL COLOR FS-595C-16440: LIGHT GULL GRAY.

ITEM 613 - LOW STRENGTH MORTAR BACKFILL, AS PER PLAN

LOW STRENGTH MORTAR (LSM) USED AS BACKFILL BEHIND SEMI-INTEGRAL DIAPHRAGMS SHALL HAVE LONG TERM COMPRESSIVE STRENGTH BETWEEN 150 AND 200 PSI. THE TOP ELEVATION SHALL BE AT LEAST 6" BELOW THE PROPOSED BOTTOM OF APPROACH SLAB AND ANY FORMWORK BETWEEN THE LSM BACKFILL AND SEMI-INTEGRAL DIAPHRAGM SHALL BE COMPLETELY REMOVED.

THE QUANTITY IN THE PLANS ASSUMES A 1.5:1 SLOPE OF BOTTOM OF THE LSM EXTENDING UP TO 2' BELOW THE PROPOSED TOP OF LSM ELEVATION (WHERE A VERTICAL END OF THE ITEM 613 IS ASSUMED). ADDITIONAL LSM BEYOND THESE LIMITS IS INCLUDED WITH ITEM 503 UNCLASSIFIED EXCAVATION. AS PER PLAN.

PERFORMING THE LIMITS REQUIRED FOR BACKFILL BEHIND THE SEMI-INTEGRAL DIAPHRAGMS SHALL BE INCLUDED FOR PAYMENT WITH THIS ITEM. PAYMENT FOR ITEM 613 LOW STRENGTH MORTAR BACKFILL, AS PER PLAN SHALL BE CONSIDERED FULL PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS REQUIRED TO PERFORM THE WORK.

OF 'RICT OHIO DEPARTMENT TRANSPORTATION, DIS

BRIDGE NOTES

JGE NO.: MUS-606-0

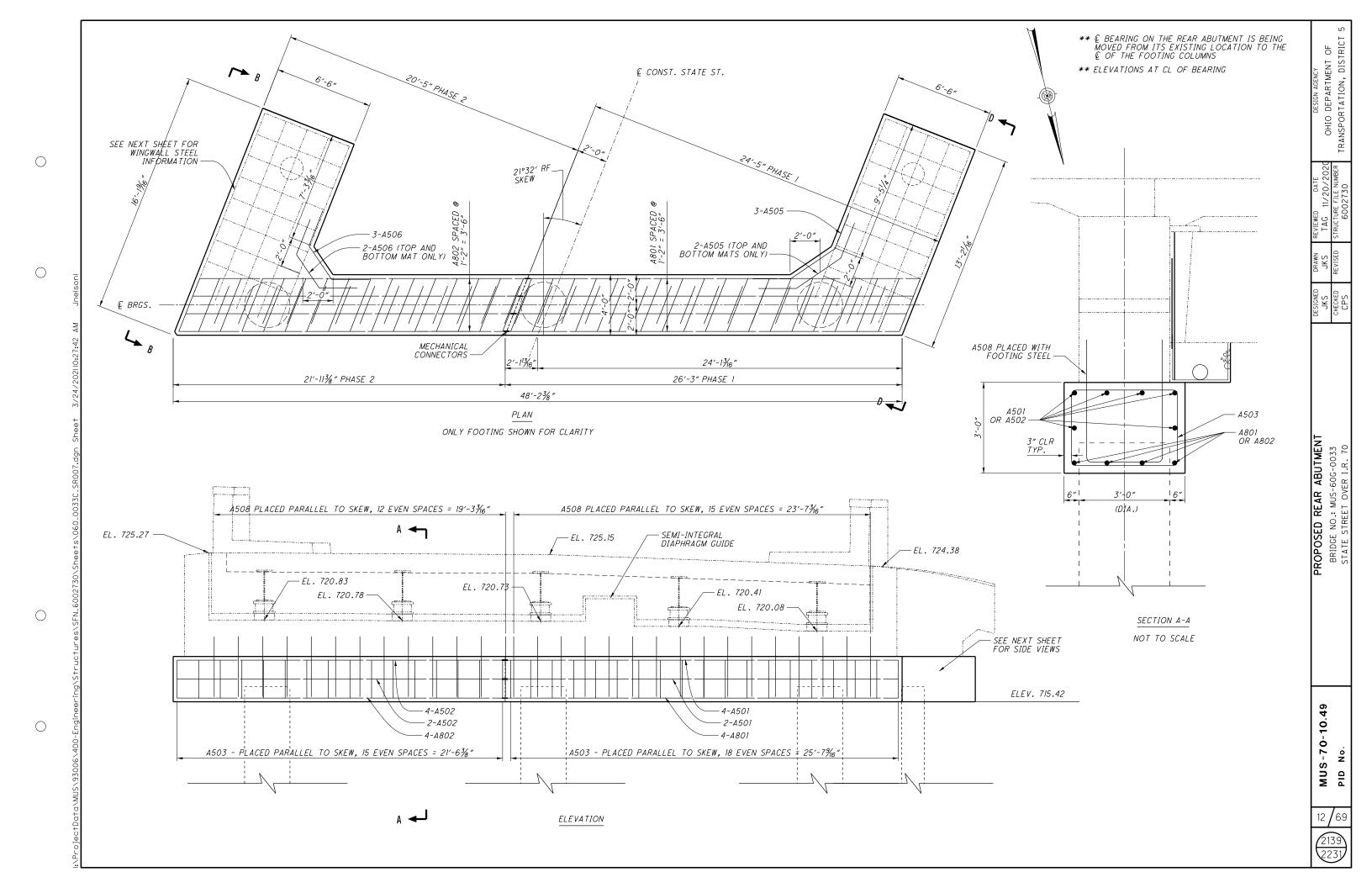
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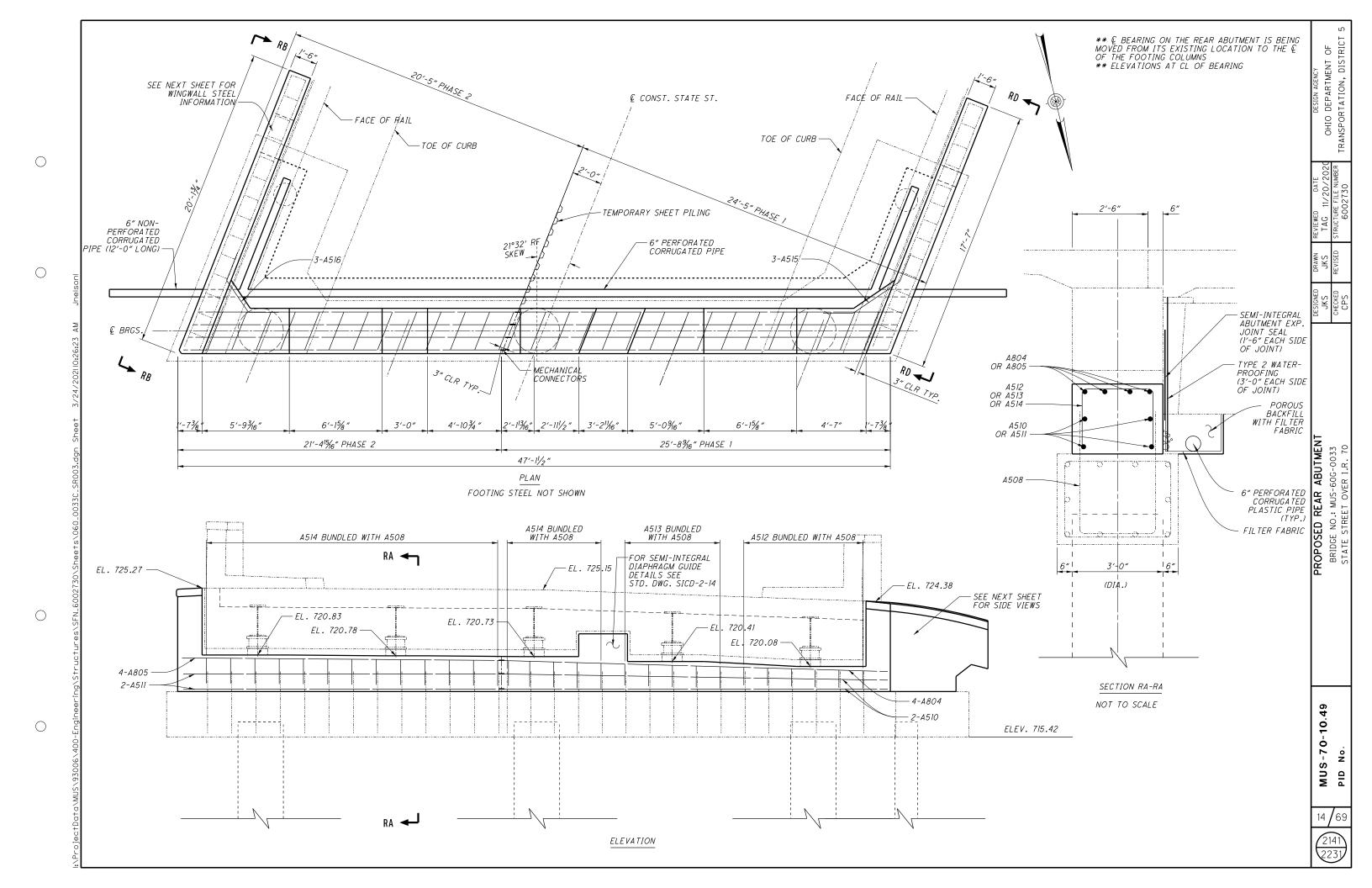
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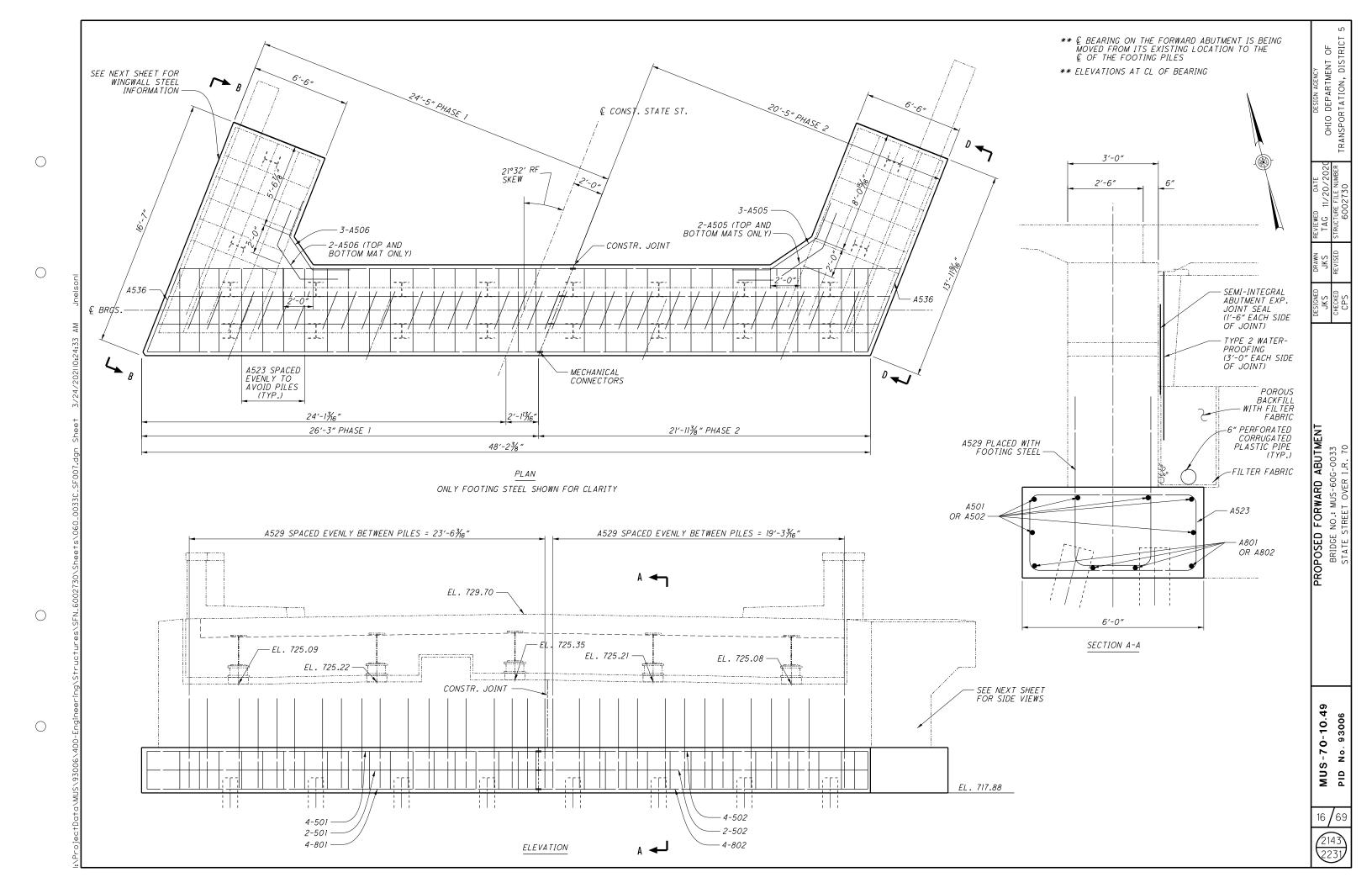
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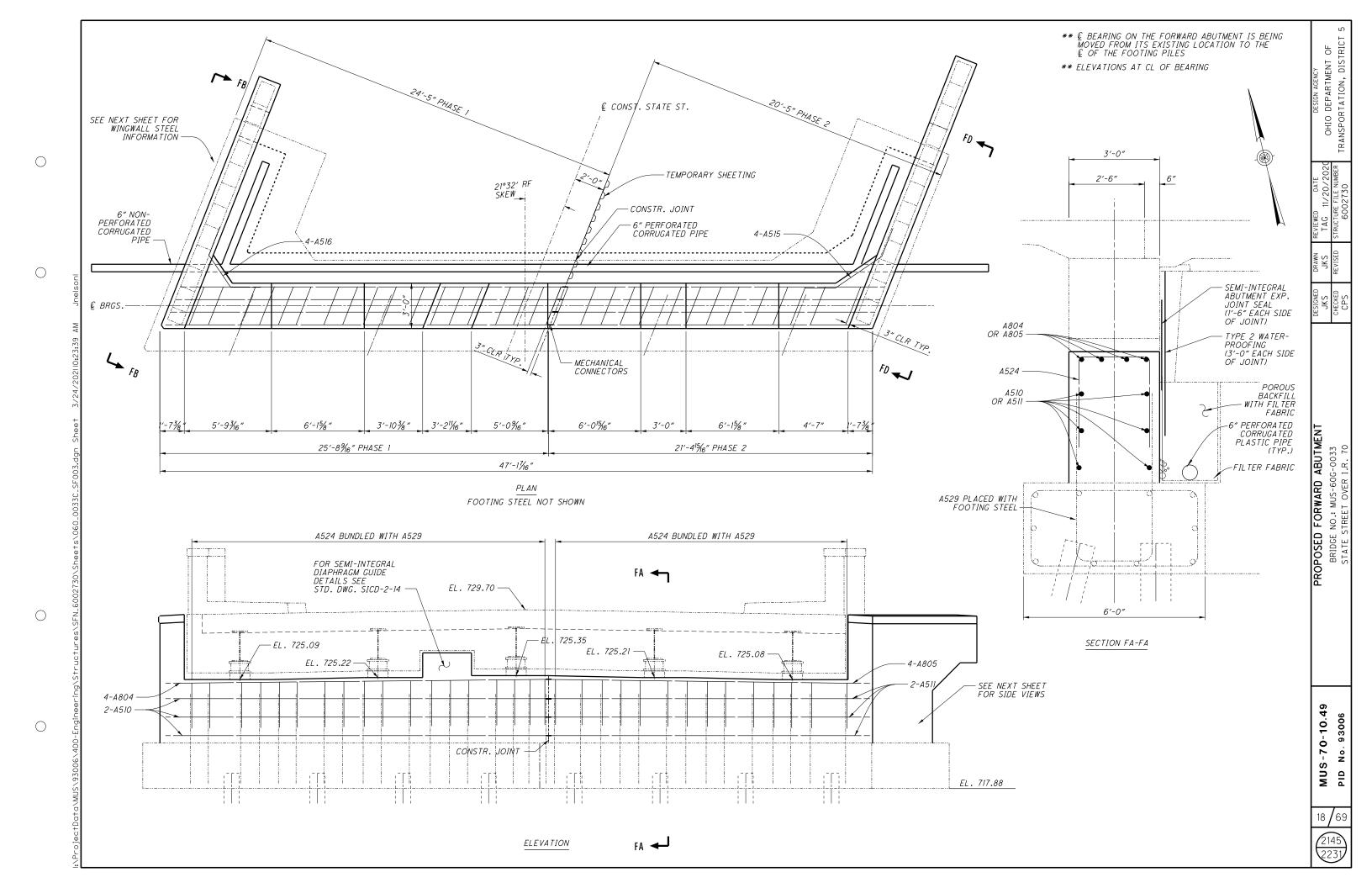


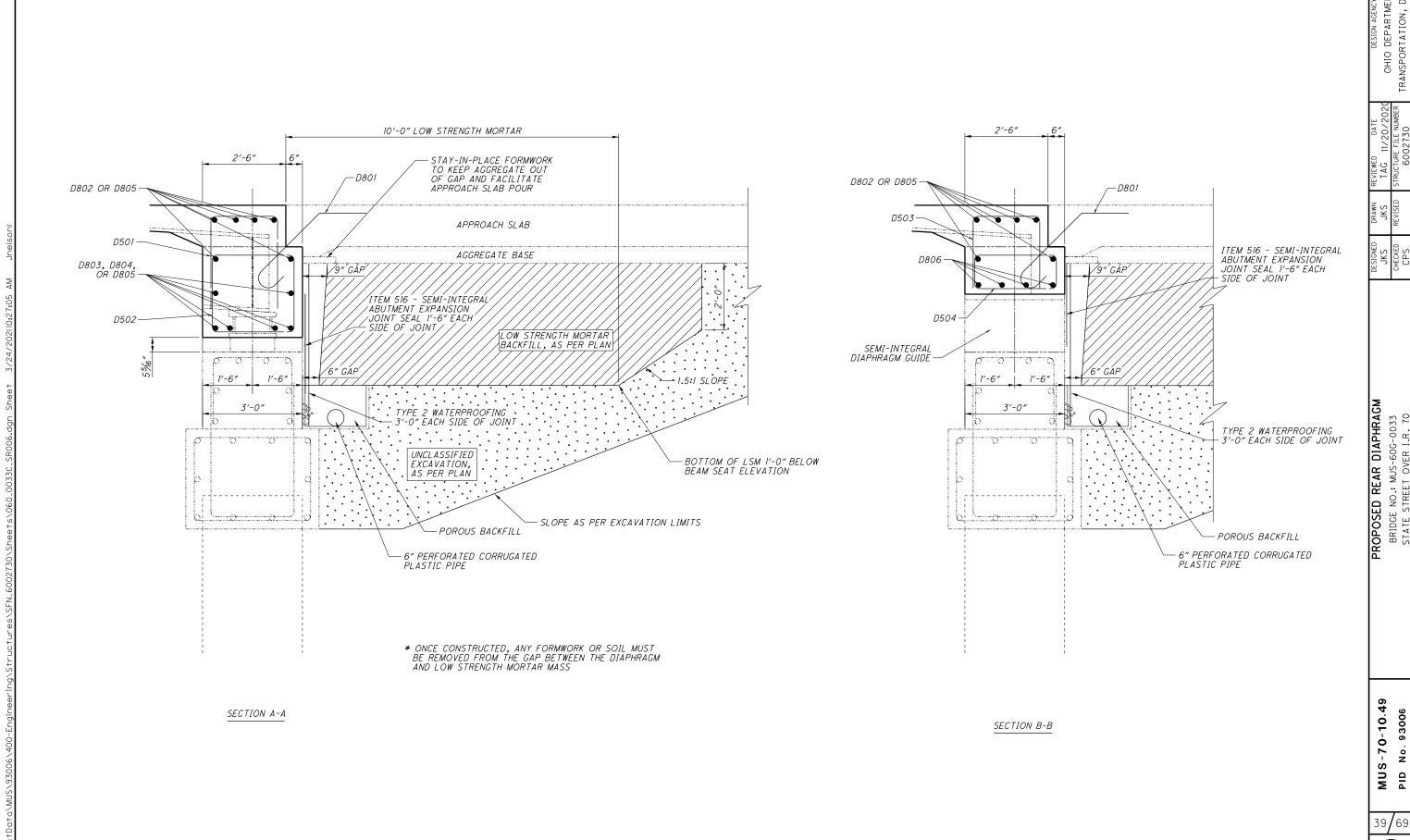
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				LS	LS	503	21301	LS		UNCLASSIFIED EXCAVATION, AS PER PLAN	3		T.
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			102	-	102	310	10000	102	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROOT		ED	ing 600
		2			2	511	33500	2	EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE		VIEW	TAC
	346				346	511	34447	346	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK, AS PER PLAN	5	RE	IZ
	78				78	511	34463	78	CY	CLASS OC SCC CONCRETE WITH OC/QA, BRIDGE DECK (PARAPET), AS PER PLAN	47-52	7	9
			28		28	511	43210	28	CY	CLASS QCI CONCRETE, PIER		A A WI	JKS
O _		58			58	511	45722	58	CY	CLASS OC SCC CONCRETE WITH OC/OA, ABUTMENT			, A
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.50%	11289				11289	514	00060	11,289	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			
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000				87	87	516	31011	87	FT	2" DEEP JOINT SEALER, AS PER PLAN	3	UMMARY	300 R. I
8-0			15		15	516	44300	15	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) 1'-2"x1'-8"x4.1479"	33-36		IS-6
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30\			1538		1538	SPECIAL	51900100	1,538	SF	COMPOSITE FIBER WRAP SYSTEM	4, 25-27		
727.			50		50	519	11100	50	SF	PATCHING CONCRETE STRUCTURE	4, 25-27		
009													
				223	223	526	25011	223	SY	REINFORCED CONCRETE APPROACH SLABS WITH OC/QA (T=15"), AS PER PLAN	5, 67-69		
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ار.	450			524	524	607	39992	524	FT	TEMPORARY VANDAL FENCE, TYPE A	56.64		
Str	459				459	SPECIAL	60740000	459	FT	VANDAL PROTECTION FENCE (DECORATIVE)	56-64		
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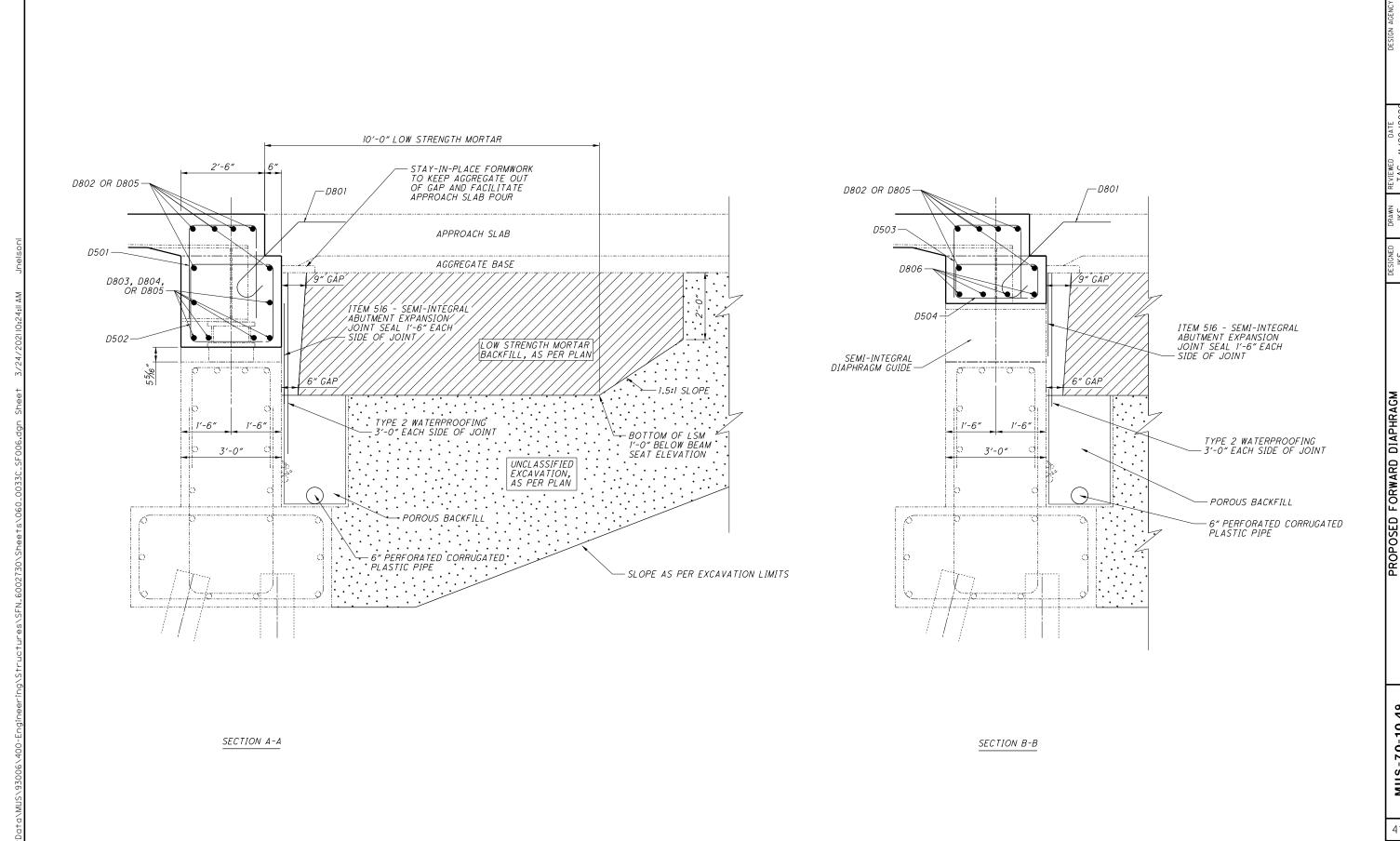
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DESIGN AGENCY
OHIO DEPARTMENT OF
TRANSPORTATION, DISTRICT

PROPOSED REAR DIAPHRAGM BRIDGE NO.: MUS-606-0033 STATE STREET OVER I.R. 70



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DESIGN AGENCY
OHIO DEPARTMENT OF
TRANSPORTATION, DISTRICT 5

PROPOSED FORWARD DIAPHRAGM BRIDGE NO.: MUS-60G-0033 STATE STREET OVER I.R. 70

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