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	ITEM	ITEM EYT	TOTAL	ER SPLII	i 101.	TOTAL PER PHASE			LINIT	DESCRIPTION		PHASE		DHASE 2	GENERAL	SHEET DEE
1982 1995 1996	II EINI	ITEM EXT.	05/IMS/BR	06/IMS/BR	PH 1	PH 2	GEN	TOTAL	ONII	DESCRIPTION	ABUT.	PIERS	SUPER	FHASE 2	GENERAL	SHEET KEF.
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Second Column				LS			LS								LS	2
19	202	22900	334		74	260		334	SY	APPROACH SLAB REMOVED	74			260		
19																
10	503	21101		263				308	CV	HNCLASSIEID EYCAVATION AS DED DLAN	1/10	258				18
1	303	21101	133	203	1 2390			2390	U1	UNCLASSIFIED EXCAVATION, AS FEN FLAN	140	230				10
Second																
Control Cont	505	11100		LS			LS	LS		PILE DRIVING EQUIPMENT MOBILIZATION, AS PER PLAN					LS	2
					i											
Section Sect	507	00500		850	850			850	FT	12" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN	850					
Section Sect	507	00550		950	950			950	FT	12" CAST-IN-PLACE REINFORCED CONCRETE PILES. FURNISHED	950					
Second S										·		840				
19										'						
1985 1986	307	00000		900	1 900			900	F1	14 GAST-IN-PLACE REINFUNCED CONGRETE FILES, FUNNISHED		900				
1995 1995 1996																
199 30-200	509	10001		73,658	73,658			73,658	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN	6,376	16,261	51,021			3
19	509	20001		300	ļ		300	300	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN					300	3
19	509	30020		4.640	4.640			4.640	FT	NO. 4 GFRP DEFORMED BARS			4.640			
1				,				<u> </u>					,			
19	E40	10001		22	22			22	FACIL	DOWEL HOLES WITH NONSHIPING NONWETH HIS CROUT AS DED DIAN	22					
3 34-61 42 47 42 77 77 77 77	510	10001		22	22			22	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROOT, AS PER PLAN	22					3
3			.		ļ											
## 4997 59 59 59 59 59 59 59	511	34446		158	158			158	CY				158			
## 4997 59 59 59 59 59 59 59	511	34451		42	42			42	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN			42			3
ST	511	42012		77	77			77	CY			77				
1891 1892 1893 1894 1895			1		!						54	<u> </u>				
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33 10	311	40012	-	00	i 	-		00	U1	OLASS QUI CONONETE WITH QUIVA, FOOTING	40	40				
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1972 1970	512	10101	§ 166 §	485					SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	65	307	279			18
19 19 19 19 19 19 19 19	512	33000	~~~	7	ا مہم			~~~	SY	TYPE 2 WATERPROOFING	7	~~~				
1970 1980	512	74000		357	357			357	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES		357				
1999 1989																
1999 1999	E40	40000	-	454 000	151 000			454 000		OTDUCTUDAL OTES! MEMBERS LEVEL 3			454 000			
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Section Sect					1,989				EACH				1,989			
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15	514	10000		6	6			6	EACH	FINAL INSPECTION REPAIR			6			
516 13600 25 25 25 25 25 25 25	514	27800		LS	LS			LS		FIELD PAINTING, MISC.: REMOVAL AND REPAIR OF EXISTING GALVANIC COATING ON STRUCTURAL STEEL			1			4
516 13600 25 25 25 25 25 25 25																
516 13600 25 25 25 25 25 25 25	516	10010	173	54	90	137		227	FT	ARMORI ESS PREFORMED JOINT SEAL	90			137		
516			170		! 	101								707		
108																
Second S					<u> </u>						99					
Second S	516	14020		108	108			108	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL			108			
10	E46	44100			i ,			,	FACIL	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (14"x9.50"x2.96" BEARING WITH	2					
Second S	310	44100		3	i ³			3	EACH	15"x10.50" LOAD PLATE AND BEVELED HP10x42 PEDESTAL)	3					
Second S					İ .					ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (18"x13"x2.59" BEARING WITH 19"x14"						
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020 SOURCE IN I I EACH STRUCTURE GROUNDING SYSTEM	605	22000	 	4	!		1	1	EAGU	CTDUCTURE CROUNDING SYSTEM	1					
	025	33000	<u> </u>	7			7	1 7	EACH	STRUCTURE GROUNDING STSTEM					7	

SUM-77-3227L BRIDGE SUMMARY

CALCULATED: RSN 01/09/22

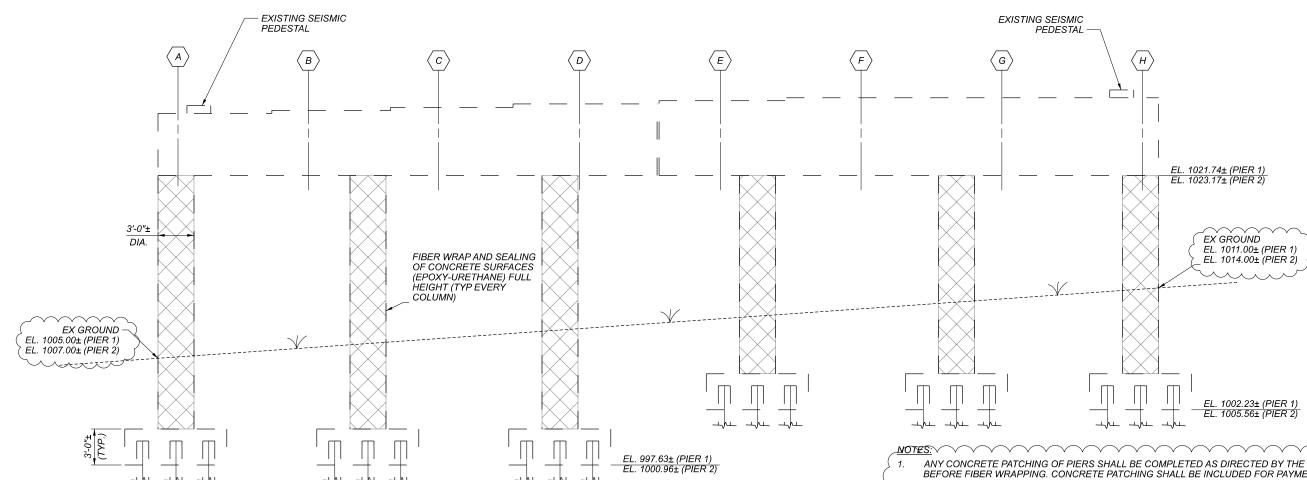
<u>CHECKED</u>: SAT 02/03/22

<u>**REVISED**</u>: SAT 08/30/22

ESTIMATED QUANTITIES BRIDGE NO. SUM-77-3227L IR-77 OVER SR-21 (BRECKSVILLE RD.)

7704712 DESIGN AGENCY Fleming 9

ENGINEERS AND ARCHITECTS, P. C. 2800 Corporate Extrange Drive Companies Contrange Drive Communs, 014 4221 DESIGNER CHECKER SAT CTM REVIEWER MTO 3/22 PROJECT ID 104983 (PRT 2) SUBSET TOTAL 5 38 SHEET TOTAL 223 312



SUM-77-32.27

<u>EXISTING PIER ELEVATION</u> (LOOKING UPSTATION, PIER 1 SHOWN, PIER 2 SIMILAR) 1. ANY CONCRETE PATCHING OF PIERS SHALL BE COMPLETED AS DIRECTED BY THE ENGINEER BEFORE FIBER WRAPPING. CONCRETE PATCHING SHALL BE INCLUDED FOR PAYMENT WITH ITEM 519, PATCHING CONCRETE STRUCTURES. A QUANTITY OF 202 SQUARE FEET OF ITEM 519 - PATCHING CONCRETE STRUCTURES HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES TO BE USED AS DIRECTED BY THE ENGINEER. THE DEPARTMENT WILL CONSIDER THE COST FOR FILLING SURFACE IRREGULARITIES IN SOUND CONCRETE SUBSTRATE IN ORDER TO PROVIDE A SMOOTH AND CONTINUOUS SURFACE AS INCIDENTAL TO THE COMPOSITE FIBER WRAP SYSTEM.

2. COLUMN FIBER WRAP MUST ACHIEVE A CONFINING STRESS OF 0.30 KSI FOR THE TOP AND BOTTOM 4 FEET OF COLUMNS, AND 0.150 KSI CONFINING STRESS FOR ALL OTHER COLUMN PORTIONS. CONTRACTOR TO DETERMINE THE WRAPPING REQUIREMENTS (NUMBER OF LAYERS, METHOD OF APPLICATION, ETC.) PER THE MANUFACTURER'S GUIDELINES.

3. SEAL ALL COLUMNS FROM BOTTOM OF CAP TO FINAL GRADE ELEVATION. SEALANT APPLIED TO CONCRETE SURFACES SHALL BE EPOXY-URETHANE. SEALANT APPLIED TO FIBER WRAPPED SURFACES SHALL BE IN COMPLIANCE WITH FIBER WRAP MANUFACTURER REQUIREMENTS FOR PROTECTION AGAINST UV AND SALT SPRAY. IF A SEALER OTHER THAN THE TYPICAL PROJECT EPOXY-URETHANE SEALER IS USED ON FIBER WRAPPED SURFACES, SELECT COLOR OF FIBER WRAP SEALER TO MATCH COLOR OF CONCRETE SURFACE SEALER. THE COST TO SEAL THE COLUMNS SHALL BE INCLUDED IN THE COST OF ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN INCLUDING ANY SPECIALTY FIBER WRAP SEALANTS THAT MAY BE REQUIRED.

4. EXCAVATION OF SOIL AROUND PIER COLUMNS TO THE TOP OF THE FOOTING AS NECESSARY TO PROPERLY INSTALL THE COMPOSITE FIBER WRAP SYSTEM. EXCAVATION AND BACKFILL AROUND THE PIER COLUMNS TO BE INCLUDED FOR PAYMENT WITH ITEM 503-UNCLASSIFIED EXCAVATION, AS PER PLAN.

5. FOR FURTHER COMPOSITE FIBER WRAP INSTALLATION REQUIREMENTS, REFER TO PN-519.

236 312 FILE: ...\Sheets\144 si101

LS 202 LS 202 22900 235 73 162 235 SY APPROACH SLAB REMOVED 73 162 21101 77 372 449 CY UNCLASSIFIED EXCAVATION, AS PER PLAN 230 219 18 503 449 LS LS LS PILE DRIVING EQUIPMENT MOBILIZATION. AS PER PLAN LS 505 11100 507 00500 840 840 840 FT 12" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN 840 FT 507 00550 960 960 960 12" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED 960 507 00600 840 840 840 FT 14" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN 840 507 00650 960 960 960 FΤ 14" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED 960 509 10001 69,246 69,246 69,246 LB EPOXY COATED REINFORCING STEEL, AS PER PLAN 5.646 18,159 45,441 300 300 LB REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN 300 509 20001 300 509 30020 4,195 4,195 4,195 FT NO. 4 GFRP DEFORMED BARS 4,195 DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN 510 10001 22 22 22 EACH 22 CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK 511 34446 155 155 155 CY 155 511 34451 37 37 37 CY CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN 37 511 CY 86 42012 86 86 86 CLASS QC1 CONCRETE WITH QC/QA, PIER ABOVE FOOTINGS 511 44112 38 38 38 CY CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT NOT INCLUDING FOOTING 38 511 46512 84 84 84 CY CLASS QC1 CONCRETE WITH QC/QA, FOOTING 44 40 558 SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN 512 10101 113 445 558 SY 32 275 251 18 SY 512 33000 TYPE 2 WATERPROOFING 512 74000 610 610 610 SY REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES 610 513 115.881 115.881 115.881 ΙB STRUCTURAL STEEL MEMBERS, LEVEL 3 115.88 10260 WELDED STUD SHEAR CONNECTORS 513 20000 1,764 1,764 1,764 EACH 1,764 5.570 5.570 SF FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT 514 00060 5.570 5.570 SF 514 00066 5.570 5,570 5,570 FIELD PAINTING STRUCTURAL STEEL, FINISH COAT 5,570 514 MNHF 00504 GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL 514 10000 6 6 6 EACH FINAL INSPECTION REPAIR 27800 LS FIELD PAINTING, MISC.: REMOVAL AND REPAIR OF EXISTING GALVANIC COATING ON STRUCTURAL STEEL 514 LS LS 160 FT ARMORLESS PREFORMED JOINT SEAL 83 516 10010 132 28 83 77 SF 516 13600 25 25 25 1" PREFORMED EXPANSION JOINT FILLER 25 516 SF 2" PREFORMED EXPANSION JOINT FILLER 13900 86 86 86 86 516 14020 66 66 66 FΤ SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL 66 ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (14"x10"x2.96" BEARING WITH 15"x11 6 516 44100 6 EACH LOAD PLATE AND BEVELED HP10x42 PEDESTAL) ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (18"x13"x2.59" BEARING WITH 19"x14 EACH 516 6 6 44100 6 6 BEVELED LOAD PLATE) 518 21200 39 39 39 CY POROUS BACKFILL WITH GEOTEXTILE FABRIC 39 78 78 78 FT 6" PERFORATED CORRUGATED PLASTIC PIPE 78 518 40000 FT 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS 518 40010 60 60 60 60 SF COMPOSITE FIBER WRAP SYSTEM SPECIAL 51900100 1,285 1,285 1,285 1,285 129 SF PATCHING CONCRETE STRUCTURE 519 11100 129 129 129 523 20001 EACH DYNAMIC LOAD TESTING, AS PER PLAN EACH 523 20501 4 4 RESTRIKE. AS PER PLAN 2 .3 4 25011 101 173 162 335 SY REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15"), AS PER PLAN 173 33 526 234 FT 526 90030 132 28 83 77 160 TYPE C INSTALLATION 83 77 CRUSHED AGGREGATE SLOPE PROTECTION 601 20000 430 430 430 SY 430 17 LOW STRENGTH MORTAR BACKFILL 17 613 41200 17 17 CY STRUCTURE GROUNDING SYSTEM 625 33000

DESCRIPTION

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

SUM-77-3227R BRIDGE SUMMARY

TOTAL PER SPLIT

06/IMS/BR

5/IMS/BR

ITEM

ITEM EXT

11203

TOTAL PER PHASE

PH 4

GEN

PH 3

GRAND

TOTAL

UNIT

CALCULATED

RSN 01/10/2.

ABUT.

PHASE 3

PIFRS

CHECKED.

SAT 02/04/22

SUPER

PHASE 4

REVISED

SAT 08/30/22

SHEET REF.

GENERAL

O. SUM-77-3227R BRECKSVILLE RD ESTIMATED QUANTITIE BRIDGE NO. 8 R-77 OVER BR

7704747 Gannett Fleming ENGINEERS AND ARCHITECTS, P.C. SAT CTM MTO 3/22 04983 (PRT 2 37

261

312

