

CUY-014-0620 PID 13182
 Calculated by: RAP
 Checked by: MEM
 KS #15286

Structure Estimated Quantities
 Revised January 30, 2020



Item	Extension	Quantity	Unit	Description
202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN
202	38501	133	FT	BRIDGE RAILING REMOVED, AS PER PLAN
503	11100	LS		COFFERDAMS AND EXCAVATION BRACING
503	21101	636	CY	UNCLASSIFIED EXCAVATION, AS PER PLAN
509	10000	15949	LB	EPOXY COATED REINFORCING STEEL
509	20001	400	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN
510	10000	290	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT
511	34411	40	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE, AS PER PLAN
511	51511	55	CY	CLASS QC2 CONCRETE, SIDEWALK, AS PER PLAN
511	71200	637	SF	CONCRETE, MISC.: ARCHITECTURAL TREATMENT
511	81300	2	EACH	CONCRETE, MISC.: ARCHITECTURAL MOCKUP
512	10050	130	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)
512	10101	289	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN
512	10601	100	FT	CONCRETE REPAIR BY EPOXY INJECTION, AS PER PLAN
512	44401	475	SY	TYPE B WATERPROOFING, AS PER PLAN
516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN
517	75121	136	FT	RAILING (CONCRETE PARAPET WITH TWIN STEEL TUBE RAILING), AS PER PLAN
518	21200	22	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC
518	40000	120	FT	6" PERFORATED CORRUGATED PLASTIC PIPE
518	62100	54	FT	STRUCTURE DRAINAGE, MISC.:INSTALLING 3" NON-PERFORATED PVC PIPE, INCLUDING SPECIALS
518	62200	4	EACH	STRUCTURE DRAINAGE, MISC.: CLEANING BACKFILL DRAINAGE AND INSTALLATION OF 3 INCH HDPE PIPE
518	62400	412	SY	STRUCTURE DRAINAGE, MISC.: COMPOSITE DRAINAGE PANEL
519	11101	150	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN
SPECIAL	53000200	LS		STRUCTURES UTILITY PROTECTION AND SUPPORT
844	10001	648	SF	CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION, AS PER PLAN

Revisions made January 30, 2020

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Items 202-510



Item	Extension	Quantity	Unit	Description						
202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN						
				95 CY REINFORCED CONCRETE (PER LD-4 AND PROPOSED QUANTITIES)						
202	38501	133	FT	BRIDGE RAILING REMOVED, AS PER PLAN						
				81'-3" LEFT, 50'-11" RIGHT, FROM EXISTING PLANS						
503	11100	LS		COFFERDAMS AND EXCAVATION BRACING						
				LUMP SUM BASED ON 636 CY EXCAVATION AS CALCULATED BELOW						
503	21101	636	CY	UNCLASSIFIED EXCAVATION, AS PER PLAN						
<p>CADD MEASURED CROSS SECTIONAL AREA = 343.276 SF (MEASURED 1' BEYOND PROPOSED TYPE B WATERPROOFING) x 50' TRANSVERSE WIDTH = 636 CY</p>										
509	10000	15949	LB	EPOXY COATED REINFORCING STEEL						
				SEE REINFORCING STEEL TABLE, ATTACHED						
509	20001	400	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN						
				<p>A CONTINGENCY QUANTITY OF 400 LBS OF REINFORCING STEEL AND 10 DOWEL HOLES IS INCLUDED IN THE ESTIMATED QUANTITIES FOR THIS ITEM.</p> <table border="0"> <thead> <tr> <th>ITEM</th> <th>UNIT</th> </tr> </thead> <tbody> <tr> <td>ITEM 509 - REINFORCING STEEL, REPLACEMENT OF THE EXISTING REINFORCING</td> <td>400 LB</td> </tr> <tr> <td>ITEM 510 - DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT</td> <td>10 EACH</td> </tr> </tbody> </table>	ITEM	UNIT	ITEM 509 - REINFORCING STEEL, REPLACEMENT OF THE EXISTING REINFORCING	400 LB	ITEM 510 - DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	10 EACH
ITEM	UNIT									
ITEM 509 - REINFORCING STEEL, REPLACEMENT OF THE EXISTING REINFORCING	400 LB									
ITEM 510 - DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	10 EACH									
510	10000	290	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT						
				Totals shown below						
		S605	4	Contingency per structure notes						
		S606	12							
		S607	48							
		S608	24							
		S611	10							
		S620	88							
		R601	94							
		Cont.	10							
		Total	290							

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Item 511



Item	Extension	Quantity	Unit	Description
511	34411	40	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE, AS PER PLAN

Arch Repair Concrete		
Left	Right	
65.987	72.136	SF
2	2	FT
Volume		
4.89	5.34	CY
Subtotal		10.2

Spandrel Wall Repair (Average end area method)		
Left	Right	
End trapezoid area		
14.874	16.404	SF
Center trapezoid area		
0	0	SF
Extrados Length		
49.07	51.196	FT
Length (1/2 extrados)		
24.535	25.598	FT
Each		
2	2	EA
Volume		
13.5	15.6	CY
Subtotal		29.1

Total		39.30	CY
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Item	Extension	Quantity	Unit	Description
511	51511	55	CY	CLASS QC2 CONCRETE, SIDEWALK, AS PER PLAN

CADD MEASURED WALK AVERAGE CROSS SECTIONAL AREAS = 9.377 SF, GRADE BEAM = 5.440 SF x LENGTHS - LEFT= 85.46', RIGHT= 53.45', GRADE BEAMS = (16.92' AND 13.12')

Item	Extension	Quantity	Unit	Description
511	71200	637	SF	CONCRETE, MISC.: ARCHITECTURAL TREATMENT

Left		Right		
Railing Face Area				
CADD Measured		186.333	119	SF
Each				
2	2			EA
End Face Area				
4.08	4.08			SF
Each				
2	2			
Upper interior face area				
2.313	2.313			SF
Each				
2	2			EA
Area				
		385.5	250.8	SF
Total		636.2		SF

Item	Extension	Quantity	Unit	Description
511	81300	2	EACH	CONCRETE, MISC.: ARCHITECTURAL MOCKUP

PAYMENT FOR ALL WORK DESCRIBED HEREIN, INCLUDING ANY ADDITIONAL CONCRETE NEEDED TO CREATE THE FORM LINED AESTHETIC TREATMENT THAT DOES NOT CONTRIBUTE TO THE CORE DESIGN OF THE PARAPET, BARRIER, ETC. TO WHICH IT IS APPLIED, SHALL BE PAID PER THE SQUARE FOOT UNIT PRICE BID FOR ITEM 511 - CONCRETE, MISC.: ARCHITECTURAL TREATMENT. ALL WORK, DESCRIBED HEREIN FOR THE COST OF CONSTRUCTING AND DISPOSING THE MOCKUP SHALL BE INCLUDED IN THE EACH UNIT PRICE BID FOR ITEM 511 - CONCRETE, MISC.: ARCHITECTURAL MOCKUP. FOR THIS PROJECT BOTH BRIDGES ARE TO RECEIVE THE SAME ARCHITECTURAL TREATMENT. THE MOCKUPS WILL BE PAID FOR WITH BRIDGE CUY-14-06.20.

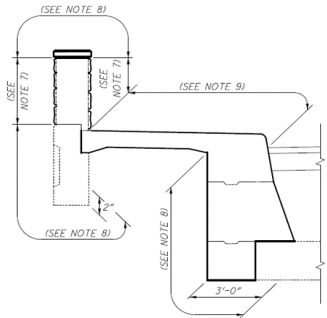
ITEM	UNIT
ITEM 511 - CONCRETE, MISC.: ARCHITECTURAL TREATMENT	637 SF
ITEM 511 - CONCRETE, MISC.: ARCHITECTURAL MOCKUP	2 EACH

CUY-014-0620 PID 13182
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Item 512



Item	Extension	Quantity	Unit	Description
512	10050	130	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)

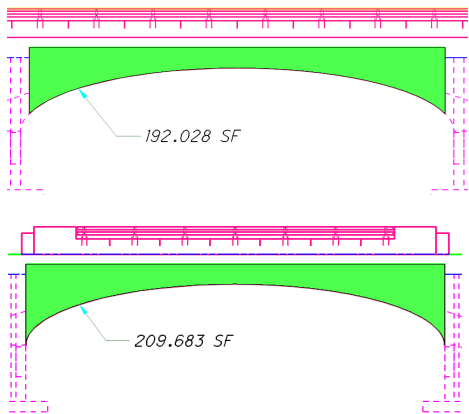


SEALING DETAIL

Left	Right	Grade Beam
Avg. xsection length		
7.736	7.736	2.935 FT
Section length		
85.5	53.45	30.04 FT
Area		
73.5	45.9	9.8 SY
Total	129.2	SY

- 7. ITEM 511 - CONCRETE MISC.: ARCHITECTURAL TREATMENT
- 8. ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN
- 9. ITEM 512 - SEALING OF CONCRETE SURFACES (NON-EPOXY)

512	10101	289	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN
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Item 512 Sealing of Concrete Surfaces (epoxy urethane)			
Left	Right	Wingwalls	
Cap perimeter		RT	RT Fwd
2.21	2.21 FT	Length	
Cap length		38	38 FT
84.67	51 FT	Height	
Fascia beam perimeter		14	14 FT
5.17	5.17 FT	Area	
Fascia beam length		Subtotals	59.11 59.11 SY
50	50 FT		
Arch face			
192.028	209.683 SF		
Intrados length			
50.182	55.078 FT		
Intrados width			
3	3 FT		
Area			
87.54	82.88 SY		
Total			288.6 SY

512	10601	100	FT	CONCRETE REPAIR BY EPOXY INJECTION, AS PER PLAN
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ITEM 512 - CONCRETE REPAIR BY EPOXY INJECTION, AS PER PLAN

IN ADDITION TO THE LOCATIONS SHOWN ON THE PLANS, SEAL CRACKS IN CONCRETE ON THE TOP SURFACE OF THE ARCH AND THE INSIDE SURFACES OF THE SPANDREL WALLS TO REMAIN AS DIRECTED BY THE ENGINEER.

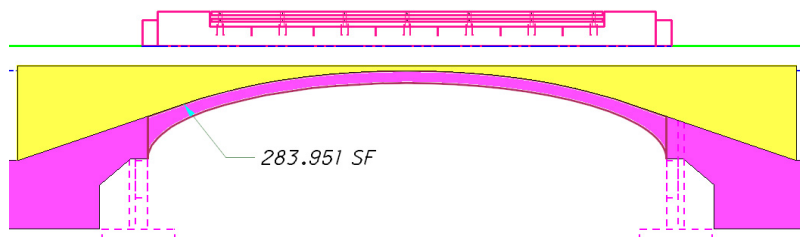
A CONTINGENCY QUANTITY OF 100 FT IS INCLUDED IN THE ESTIMATED QUANTITIES FOR THIS ITEM.

ITEM	UNIT
ITEM 512 - CONCRETE REPAIR BY EPOXY INJECTION, AS PER PLAN	100 FT

512	44401	475	SY	TYPE B WATERPROOFING, AS PER PLAN
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CADD measured from structure elevation (area bounded between top of arch to a point 6" above construction joint B, toe to toe of extrados)
 284 SF (2 EA)
 Length of line extending between extrados toes
 78 LF
 Width of bridge normal to CL between spandrel wall toes
 47.5 LF

- 474.78 SY TYPE B
- 411.67 SY PANELS (area not including spandrel walls)



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Items 516-844



Item	Extension	Quantity	Unit	Description
516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN
<p>ITEM 516 – JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN</p> <p>ALL PROVISIONS OF ITEM 508 FALSEWORK AND FORMS SHALL APPLY, WITH THE FOLLOWING ADDITIONS TO THE 516 JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE SPECIFICATION.</p> <p>THIS WORK CONSISTS OF SUPPORTING EXISTING STRUCTURE PORTIONS TO REMAIN AS DEFINED IN THE PROJECT PLANS. INCLUDED IN THIS ITEM IS THE TEMPORARY SUPPORT FOR THE EDGE OF THE CONCRETE ARCH, SPANDREL WALLS TO REMAIN, AND FASCIA GIRDERS. SUBMIT CONSTRUCTION PLANS IN ACCORDANCE WITH CMS 501.05.</p> <p>THE EDGE OF THE CONCRETE ARCH AND SPANDREL WALL IS AN EDGE BEAM TO SUPPORT THE SKEWED PORTION OF THE ARCH. THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORTS TO SUPPORT THE EDGE OF THE ARCH TO REMAIN UNTIL THE NEW CONCRETE ARCH AND SPANDREL WALL MEET THE REQUIREMENTS FOR LOADING UNDER CMS TABLE 511.14-1A. THIS SUPPORT SHALL BE REMOVED PRIOR TO THE PLACEMENT OF ANY CURB, SIDEWALK, OR FILL ABOVE THE BOTTOM OF THE ITEM 305 – CONCRETE BASE.</p> <p>CONTRACTOR TO DESIGN AND CONSTRUCT FORMWORK TO MATCH THE CONTOUR OF THE EXISTING ARCH WITH NO JOINT MARKS OR BREAK IN ARCH SHAPE. FORM AND PLACE SPANDREL WALLS UP TO THE BOTTOM OF ITEM 305 – CONCRETE BASE AND ALLOW TO CURE PRIOR TO RELEASING THE FORMS FOR THE CONCRETE ARCH.</p> <p>DO NOT CONSTRUCT ANY OTHER SECTION OF THE BRIDGE, SUCH AS SIDEWALKS AND RAILINGS, OR INSTALL FILL AND ROADWAY PAVEMENT UNTIL THE ARCHES AND SPANDREL WALLS ARE CURED AND FORMS AND THE SUPPORTING FALSEWORK ARE REMOVED.</p> <p>CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE THE EXISTING AND NEW CONCRETE ARCHES DURING REMOVAL OF THE FORMWORK AND ITS SUPPORT.</p> <p>THE DEPARTMENT WILL MEASURE THIS WORK ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES AT THE CONTRACT PRICE BID FOR ITEM 516 – JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN.</p>				
517	75121	136	FT	RAILING (CONCRETE PARAPET WITH TWIN STEEL TUBE RAILING), AS PER PLAN
				84'-8" LEFT, 51'-0" RIGHT
518	21200	22	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC
<p>CADD MEASURED CROSS SECTION AREA = 5.014 x 2 EA, LENGTH ALONG SKEW (58') / 27 = 21.5 CY</p>				
518	40000	120	FT	6" PERFORATED CORRUGATED PLASTIC PIPE
				2 EACH @ 60' EACH = 120 FT
518	62100	54	FT	STRUCTURE DRAINAGE, MISC.: INSTALLING 3" NON-PERFORATED PVC PIPE, INCLUDING SPECIALS
				12 EACH @ 4.5' EACH = 54 FT
518	62200	4	EACH	STRUCTURE DRAINAGE, MISC.: CLEANING BACKFILL DRAINAGE AND INSTALLATION OF 3 INCH HDPE PIPE
<p>ITEM 518 - STRUCTURE DRAINAGE, MISC.: CLEANING BACKFILL DRAINAGE AND INSTALLATION OF 3 INCH HDPE PIPE</p> <p>DESCRIPTION: THIS ITEM SHALL CONSIST OF FURNISHING ALL NECESSARY LABOR, MATERIALS, AND EQUIPMENT TO CLEAN THE EXISTING FOUR INCH DIAMETER BACKFILL DRAINAGE SYSTEM AND INSTALL THREE INCH (3") DIAMETER HDPE PIPE, AS SHOWN IN THE PLANS AND HEREIN SPECIFIED.</p> <p>METHODS: CLEAR THE EXISTING DRAINAGE CONDUIT OF ACCUMULATED OBSTRUCTIONS. THIS WORK SHALL PROCEED ONLY AFTER BOTH SIDES OF THE CONCRETE ARCH ARE EXPOSED. THE CONTRACTOR MAY USE ROCKS DRIVEN BY HAND OR PNEUMATIC HAMMERS UP TO 35 POUNDS, PRESSURE WASHING, OR OTHER SUITABLE METHODS THAT WILL NOT DAMAGE THE ARCH OR ENLARGE THESE EXISTING HOLES. UPON COMPLETION OF THE CLEANING, THE CONTRACTOR SHALL INSTALL THREE INCH (3") DIAMETER HDPE CONDUIT PIPE MEETING THE REQUIREMENTS OF 725.052. THE CONDUIT SHALL BE SECURED IN PLACE WITH GROUT CONFORMING TO CMS 510.02. THE GROUT SHALL EXTEND A MINIMUM OF 4 INCHES INTO THE HOLE AND AROUND THE CONDUIT AT THE INLET SIDE. THE CONDUIT SHALL BE CUT FLUSH WITH THE PROPOSED WATERPROOFING MATERIAL.</p> <p>MEASUREMENT & PAYMENT: THERE ARE FOUR LOCATIONS ANTICIPATED AT EACH BRIDGE, EACH DRAINAGE SYSTEM BEING TWELVE FEET MAXIMUM IN LENGTH. PAYMENT FOR ACCEPTED QUANTITIES, COMPLETE IN PLACE, SHALL BE MADE AT THE CONTRACT UNIT PRICE BID FOR EACH ITEM 518-STRUCTURE DRAINAGE MISC.: CLEANING EXISTING BACKFILL DRAINAGE AND INSTALLATION OF 3 INCH HDPE PIPE. THIS SHALL INCLUDE ALL NECESSARY TOOLS, LABOR, EQUIPMENT AND MATERIALS NECESSARY TO COMPLETE THIS ITEM OF WORK AS DESCRIBED AND TO THE SATISFACTION OF THE ENGINEER.</p>				
518	62400	412	SY	STRUCTURE DRAINAGE, MISC.: COMPOSITE DRAINAGE PANEL
<p>CADD measured from structure elevation (area bounded between top of arch to a point 6" above construction joint B, toe to toe of extrados)</p> <p>284 SF (2 EA)</p> <p>Length of line extending between extrados toes 78 LF</p> <p>Width of bridge normal to CL between spandrel wall toes 47.5 LF</p> <p>474.78 SY TYPE B</p> <p>411.67 SY PANELS (area not including spandrel walls)</p>				

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Items 516-844



519	11101	150	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN				
<p>ITEM 519 - PATCHING CONCRETE STRUCTURE, AS PER PLAN</p> <p>IN ADDITION TO THE LOCATIONS SHOWN ON THE PLANS, PATCH CONCRETE SURFACES ON THE TOP SURFACE (EXTRADOS) OF THE ARCH AND THE INSIDE SURFACES OF THE SPANDREL WALLS TO REMAIN AS DIRECTED BY THE ENGINEER.</p> <p>A CONTINGENCY QUANTITY OF 150 SF IS INCLUDED IN THE ESTIMATED QUANTITIES FOR THIS ITEM.</p> <table border="0"> <tr> <td>ITEM</td> <td>UNIT</td> </tr> <tr> <td>ITEM 519 - PATCHING CONCRETE STRUCTURE, AS PER PLAN</td> <td>150 SF</td> </tr> </table>					ITEM	UNIT	ITEM 519 - PATCHING CONCRETE STRUCTURE, AS PER PLAN	150 SF
ITEM	UNIT							
ITEM 519 - PATCHING CONCRETE STRUCTURE, AS PER PLAN	150 SF							

SPECIAL	53000200	LS		STRUCTURES UTILITY PROTECTION AND SUPPORT
<p>ITEM SPECIAL - STRUCTURES UTILITY PROTECTION AND SUPPORT</p> <p>DESCRIPTION:</p> <p>THIS ITEM SHALL CONSIST OF FURNISHING ALL NECESSARY LABOR, MATERIALS, AND EQUIPMENT TO DESIGN AND PROVIDE TEMPORARY PROTECTION AND SUPPORT TO UTILITIES AS SHOWN IN THE PLANS AND HEREIN SPECIFIED.</p> <p>ON THE LEFT SIDE OF THE STRUCTURE IS A FIBER OPTIC TELECOMMUNICATION BANK. THE FIBER OPTIC LINES ARE SUPPORTED BY A UTILITY SUPPORT TRUSS BEAM. THE UTILITY TRUSS RUNS UNDER THE SIDEWALK AND ADJACENT TO THE LEFT SPANDREL WALL. THE CONTRACTOR SHALL PROTECT THE UTILITY TRUSS AND THE FIBER OPTIC LINES WITHIN USING A PROTECTIVE HOUSING SURROUNDING THE ENTIRE UTILITY TRUSS. THE PROTECTIVE HOUSING SHALL BE SUFFICIENT TO PROTECT THE UTILITIES AND THE UTILITY TRUSS FROM DAMAGE DURING THE REMOVAL AND CONSTRUCTION PROCESS.</p> <p>THE UTILITY TRUSS IS SUPPORTED BY CONCRETE PIERS ATTACHED TO THE SPANDREL WALL. THE CONTRACTOR SHALL NOT DAMAGE THE PIERS, COLUMNS, OR PIER CAPS DURING REMOVAL OR CONSTRUCTION ACTIVITIES.</p> <p>THERE IS A BRICK COMBINED SANITARY SEWER THAT RUNS ALONG THE LEFT SIDE OF THE STRUCTURE DIRECTLY BELOW THE SIDEWALK. THE CONCRETE PIERS ON THE LEFT SIDE OF THE STRUCTURE SPAN OVER THIS BRICK COMBINED SANITARY LINE. THE CONTRACTOR IS TO PROTECT THE BRICK COMBINED SANITARY LINE. THE CONTRACTOR SHALL CONSTRUCT A TEMPORARY PROTECTIVE SYSTEM OVER THE BRICK SANITARY LINE DURING REMOVAL AND CONSTRUCTION OPERATIONS THAT MAY CAUSE DAMAGE TO THE BRICK COMBINED SANITARY LINE. THE PROTECTIVE STRUCTURE SHALL BE SUFFICIENT TO PROTECT THE BRICK SANITARY LINE FROM DAMAGE DURING THE REMOVAL AND CONSTRUCTION PROCESS. THE CONTRACTOR IS TO SUBMIT THE PROTECTIVE STRUCTURE PLAN TO NEORSO FOR REVIEW AT LEAST 15 BUSINESS DAYS IN ADVANCE OF THE CONSTRUCTION FOR ACCEPTANCE OF THE PLAN.</p> <p>MEASUREMENT & PAYMENT:</p> <p>PAYMENT FOR ACCEPTED QUANTITIES, COMPLETE IN PLACE, SHALL BE MADE AT THE LUMP SUM PRICE BID FOR ITEM SPECIAL-STRUCTURES UTILITY PROTECTION AND SUPPORT. THIS SHALL INCLUDE ALL NECESSARY TOOLS, LABOR, EQUIPMENT, DESIGN, AND MATERIALS NECESSARY TO COMPLETE THIS ITEM OF WORK AS DESCRIBED AND TO THE SATISFACTION OF THE ENGINEER.</p>				

844	10001	648	SF	CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION, AS PER PLAN
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SEE PAYMENT LIMITS FROM STRUCTURE NOTES FOR ADDITIONAL DETAILS

Arch Repair		Spandrel Wall Repair	
Left	Right	Left	Right
Arch face area	65.987	Interface Area	14.874
Intradados length	50.182	Interface (EA)	2
Extrados length	49.070	2' Strip Height	4.293
Strip width	2	Strip width	2
Intradados strip	100.364	Strip (EA)	2
Extrados strip	98.14		
Total	264.491		46.92
	549.175		98.34
			647.515