

CLIENT	ODOT District 12
PROJECT	CUY-8/10-2.24/8.69 (PID 113674)
SUBJECT	Bridge No. CUY-8-0226

PROJECT NO.	2021-1002-00								
COMP. BY	JG	DATE	10/27/2022						
CHECKED BY	MJL	DATE	10/28/2022						

# REVISION HISTORY

Stage 1 Plans:	COMP. BY	JAM	DATE	2/20/2022
	CHECKED BY	TDA	DATE	2/21/2022
Stage 3 Plans:	REVISED BY	JG M II	DATE	10/27/2022

The initials and dates listed in the sheet header reflect the most recent revision of the estimated quantity calculations.

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

Concrete Removal:	Factor 1.00	х	Volume (cy) 230	х	Cost / cy \$300.00	=	\$ 69,000.00 LS
	Factor		Length (ft)		Cost / ft		
Drainage Pipe Removal:	1.00	Х	2,181	х	\$2.00	=	\$ 4,362.00 LS
Fence Removal:	1.00	Х	3,540	Х	\$5.00	=	\$ 17,700.00 LS
Expansion Joint Removal:	1.00	Х	340	Х	\$20.00	=	\$ 6,800.00 LS
	Factor		Weight (lb)		Cost / lb		
Drainage System Support Removal:	1.00	х	8,263	X	\$2.00	=	\$ 16,526.24 LS
Total:							\$ 114,388.24 LS
Total for ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, A	S PER PLAN	:				Say:	\$ <b>120,000.00</b> LS

## ITEM 509 - REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN

Superstructure:	Say:	200	LB
Total:		200	LB
Total for ITEM 509 - REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN:		200	LB



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# ITEM 511 - CLASS QC2 CONCRETE, SIDEWALK WEARING SURFACE, AS PER PLAN

Rear Abutment:		No.		Longth (ft)		\M/idth (ft)					
Sidewalk Wearing Surface, LT: Sidewalk Wearing Surface, RT:	N/A (walk on grade)	0 1	x x	Length (ft) 0.00 0.00	x x	Width (ft) 6.00 6.00	1	1 1	= =	0.00 0.00	SF SF
Total:										0.00	SF
Total for Rear Abutment:									Say:	0	SF
Forward Abutment:		No.		Longth (ft)		Width (ft)					
Sidewalk Wearing Surface, LT: Sidewalk Wearing Surface, RT:	N/A (walk on grade)	0 1	x x	0.00 0.00	x x	6.00 6.00	/	1 1	=	0.00 0.00	SF SF
Total:										0.00	SF
Total for Forward Abutment:									Say:	0	_SF
Superstructure:		No.		Longth (ft)		Width (ft)					
Sidewalk Wearing Surface, LT: Sidewalk Wearing Surface, RT:		1 1	x x	Length (ft) 1607.00 1607.00	x x	6.00 6.00	/	1 1	=	9,642.00 9,642.00	
Total:										19,284.00	0 SF
Total for Superstructure:									Say:	19,290	_SF
Total for ITEM 511 - CLASS QC2 CONCRETE, SIDEWALK V	WEARING SURFACE, A	S PER PLAN	۱:							19,290	_SF
ITEM 511 - CLASS QC2 CONCRETE, BRIDGE DECK (PARA	<u> PET)</u>										
From Plan sheet 11 of 26:	No.	Length (ft)		Width (ft)		Height (ft)					
Superstructure:		(,									
Bridge Railing Reconstruction: Total:	1 x	28.00	х	1.00	x	2.33	1	27	=	2.42 2.42	CY
Total:									Say:	3.0	_CY
Total for ITEM 511 - CLASS QC2 CONCRETE, BRIDGE DEC	CK (PARAPET):									3.0	_CY



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# ITEM 512 - SEALING OF CONCRETE SURFACES (NON-EPOXY):

Superstructure:										
Sidewalk Wearing Surface, LT: Sidewalk Wearing Surface, RT:	No. 1 1	x x	Length (ft) 1607.00 1607.00	x x	Width (ft) 6.00 6.00	/	9 9	=	1,071.33 1,071.33	
Total:									2,142.67	SY
Total for Superstructure:								Say:	2,143	SY
Total for ITEM 512 - SEALING OF CONCRETE SURFACES (NON-EPOXY)::									2,143	_SY
ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE):										
Rear Abutment:	No.		l amouth (ft)		\A/:-dab_ (f4)					
Bridge Railing, LT: Bridge Railing, RT:	1 1	x x	Length (ft) 18.50 17.25	x x	Width (ft) 8.53 8.53	/	9 9	=	17.54 16.35	SY SY
Total:									33.89	SY
Total for Rear Abutment:								Say:	34	SY
Forward Abutment:	No.		l amouth (ft)		\A/:-dab_ (f4)					
Bridge Railing, LT: Bridge Railing, RT:	1 1	x x	Length (ft) 244.58 68.73	x x	Width (ft) 8.53 8.53	/	9 9	=	231.84 65.15	SY SY
Total:									296.99	SY
Total for Forward Abutment:								Say:	297	SY
Superstructure:	No.		Longth (ft)		Width (ft)					
Bridge Railing, LT: Bridge Railing, RT:	1 1	x x	Length (ft) 1604.00 1604.00	x x	8.53 8.53	/	9 9	=	1,520.46 1,520.46	
Total:									3,040.92	SY
Total for Superstructure:								Say:	3,041	SY
Total for ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE):									3,372	_SY



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## ITEM 512 - CONCRETE REPAIR BY EPOXY INJECTION

Length (ft) Railing: See Tables on Sheet 11/16

481.6 FT 481.6

Total: 481.6 FT

**482** FT Total for Superstructure: Say:

Total for ITEM 512 - CONCRETE REPAIR BY EPOXY INJECTION:

**482** FT

#### ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN

Superstructure:

	No.		Length (ft)		Width (ft)		Height (ft)	W	eight (p	cf)		
Additional Stiffener Plate,"A" see sheet 12:	2	Х	0.03	Х	0.625	Х	2.54	Х	490	=	48.65	LB
Additional Stiffener Plate, "B" see sheet 12:	2	Х	0.03	Х	0.625	Х	2.54	Х	490	=	48.65	LB
Additional Stiffener Plate, "C" see sheet 12:	1	Х	0.03	Х	0.688	Х	1.25	Х	490	=	13.16	LB
Additional End Cross Frame (Horiz.), Rear. Abut:	6	Х	9.67	Х	0.500	Х	0.03	Х	490	=	370.05	LB
Additional End Cross Frame (Horiz.), Fwd. Abut:	6	Х	9.67	Х	0.500	Х	0.03	Х	490	=	370.05	LB
Additional End Cross Frame (Dia.), Rear. Abut:	12	Х	10.02	Х	0.500	Х	0.03	Х	490	=	766.91	LB
Additional End Cross Frame (Dia.), Fwd. Abut:	12	Х	10.02	Х	0.500	Х	0.03	Х	490	=	766.91	LB
W18X46 to be replaceed both Abutment:	12	Х	9.67					Х	46	=	5,336.00	LB
Total:											7,720.37	LB

Total for Superstructure: Say: **7,730** LB

Total for ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN:

**7,730** LB



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ITEM 514 - SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL ITEM 514 - FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT ITEM 514 - FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT
ITEM 514 - FIELD PAINTING STRUCTURAL STEEL, FINISH COAT

Superstructure:					_						
Oindon Fords at Danie Aborton ant	Dista Circles			Number		Perimeter (ft)		Length (ft)		000.54	05
Girder Ends at Rear Abutment: Cross Beam at Rear Abutment:	Plate Girders W18x46	X-Frames:	6	7 6	Х	9.98 4.53	Х	10.00	=	698.54 262.84	SF SF
Cross Frame (Dia.) at Rear Abutment:	3"x3"x5/16"	A-Frames:	6	12	X X	4.53 1.05	X	9.67 10.02	=	126.46	SF SF
Cross Frame (Straight) at Rear Abutment:	3"x3"x5/16"			6	X	1.05	X X	9.67	=	61.02	SF
Cross Frame (Straight) at Near Abutment.	3 83 83/10			U	^	1.00	^	3.01	_	01.02	OI .
Girder Ends at Pier 1 Joint, Span 1:	Plate Girders			7	х	13.78	Х	10.00	=	964.63	SF
Cross Beam at Pier 1 Joint, Span 1:	W18x46	X-Frames:	6	6	Х	4.53	Х	9.67	=	262.84	SF
Girder Ends at Pier 1 Joint, Span 2:	Plate Girders			7	Х	16.42	Х	10.00	=	1,149.17	SF
Cross Beam at Pier 1 Joint, Span 2:	W18x46	X-Frames:	6	6	х	4.53	Х	9.67	=	262.84	SF
Girder Ends at Span 4 Joint, Rear:	Plate Girders			7	х	15.17	х	9.01	=	956.61	SF
Girder Ends at Span 4 Joint, Top at Hinge:				7	x	8.42	X	1.78	_	104.95	SF
Cross Beam at Span 4 Joint, Rear:	W18x46	X-Frames:	6	6	X	4.53	Х	9.67	=	262.84	SF
Girder Ends at Span 4 Joint, Bot. at Hinge:		X i i anioo.	· ·	7	X	10.00	Х	1.78	=	124.69	SF
Girder Ends at Span 4 Joint, Forward:	Plate Girders			7	X	15.17	Х	8.89	=	943.34	SF
Cross Beam at Span 4 Joint, Forward:	W18x46	X-Frames:	6	6	X	4.53	Х	9.67	=	262.84	SF
cross Boarn at Spain 1 Joint, 1 orward.	WIOXIO	X Tramos.	Ü	•	^	1.00	^	0.01		202.01	O.
Girder Ends at Span 8 Joint, Rear:	Plate Girders			7	х	15.17	Х	9.01	=	956.61	SF
Girder Ends at Span 8 Joint, Top at Hinge:	Plate Girders			7	Х	8.42	Х	1.78	=	104.95	SF
Cross Beam at Span 8 Joint, Rear:	W18x46	X-Frames:	6	6	Х	4.53	Х	9.67	=	262.84	SF
Girder Ends at Span 8 Joint, Bot. at Hinge:	Plate Girders			7	Х	8.42	Х	1.78	=	104.95	SF
Girder Ends at Span 8 Joint, Forward:	Plate Girders			7	Х	15.17	Х	8.89	=	943.34	SF
Cross Beam at Span 8 Joint, Forward:	W18x46	X-Frames:	6	6	Х	4.53	Х	9.67	=	262.84	SF
Oindon Fords at Foresand Abouts and	Dista Oississa			7		44.74		40.00		040.50	05
Girder Ends at Forward Abutment:	Plate Girders	V F	0	7	Х	11.71	Х	10.00	=	819.58	SF
Cross Beam at Forward Abutment:	W18x46	X-Frames:	6	6	Х	4.53	Х	9.67	=	262.84	SF
Cross Frame (Dia.) at Rear Abutment:	3"x3"x5/16"			12 6	X X	1.05 1.05	X X	10.02	=	126.46 61.02	SF SF
Cross Frame (Straight) at Rear Abutment:	3"x3"x5/16"			0	Х	1.05	Х	9.67	-	01.02	SF
Subtotal:										10,348.98	SF
Prop. Crossframes:	Deduct for prime co	at in the shop:							=	-	SF
·	·	·									
Subtotal, Deductions for Surface Prep and	Prime Coat:								=	-	SF
Total for Superstructure, Existing (for Surfa	ce Prenaration and Pr	rime Coat):							Say:	10,400	SF
Total for Superstructure, Existing and Prope		,	sh Coat):						Say:	10,400	SF
	•		ŕ								_
Total for ITEM 514 - SURFACE PREPARAT	ION OF EXISTING S	TRUCTURAL S	STEEL:							10,400	SF
Total for ITEM 514 - FIELD PAINTING OF E										10,400	SF
Total for ITEM 514 - FIELD PAINTING STR			COAT:							10,400	SF
Total for ITEM 514 - FIELD PAINTING STR	UCTURAL STEEL, FI	NISH COAT:								10,400	SF
ITEM 514 - GRINDING FINS, TEARS, SLIVE	RS ON EXISTING ST	RUCTURAL S	TEEL								
									_		
Total for Superstructure:	Per 2020 BDM, Sec	tion 404.1.11, 1	I minute per 1' o	f beam/girde	r to be	e coated.			Say:	24	_MNHR
Total for ITEM 514 - GRINDING FINS, TEAR	RS, SLIVERS ON EXI	STING STRUC	TURAL STEEL	:						24	MNHR
ITEM 514 - FINAL INSPECTION REPAIR											
Total for Superstructure:	Per CMS 514.21, 1	location per 150	0' of beam lines	+ 5% of cross	sfram	es.			Say:	13	EACH
·		po. 101	200	2 /0 0. 0.000					<i></i> ,.		_
Total for ITEM 514 - FINAL INSPECTION R	EPAIR:									13	_EACH



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340

\_FT

## ITEM 516 - STRIP SEAL EXPANSION JOINT ANCHORED WITH ELASTOMERIC CONCRETE

Total for ITEM 516 - STRIP SEAL EXPANSION JOINT ANCHORED WITH ELASTOMERIC CONCRETE:

Superstructure:			
Rear Abutment Joint:	=	67.15	FT
Pier 1 Joint:	=	66.00	FT
Span 4 Joint:	=	66.00	FT
Span 8 Joint:	=	66.00	FT
Forward Abutment Joint:	=	66.00	FT
Total:		331.15	FT
Total for Superstructure:	Say:	340	_FT

## ITEM 518 - 8" PIPE DOWNSPOUT, INCLUDING SPECIALS, AS PER PLAN

Superstructure:								
·	No. of		No. per					
	Spans		Span		Length (ft)	)		
Scupper Downspouts Along Girders, LT:	9	Х	4	Х	5.29	=	190.50	FT
Scupper Downspouts Along Girders, RT:	9	Х	4	Х	5.29	=	190.50	FT
Total:							381.00	FT
Total for Superstructure:						Say:	381	_FT
Total for ITEM 518 - 8" PIPE DOWNSPOUT, INCLUDING SPECIALS, AS PER PLAN:							381	FT



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# ITEM 518 - PIPE DOWNSPOUT, INCLUDING SPECIALS, AS PER PLAN, 10"

Superstructure:								
	No. of		No. of					
	Spans		Loc./Span		Length (ft)	)		
Horizontal Pipe Along Girder, LT:	9	Х	1	Х	36.00	=	324.00	FT
Horizontal Pipe Along Girder, RT:	9	Х	1	Х	36.00	=	324.00	FT
Downspout Pipe From Girder, LT:	9	Х	1	Х	4.50	=	40.50	FT
Downspout Pipe From Girder, RT:	9	Х	1	Х	4.50	=	40.50	FT
Horizontal Pipe Along Pier:	9	Х	1	X	16.20	=	145.80	FT
Pier 2, Downspout Pipe to Outlet:			46.03	+	54.78	=	100.80	FT
Pier 3, Downspout Pipe to Outlet:			46.07	+	54.82	=	100.89	FT
Pier 4, Downspout Pipe to Outlet:			66.23	+	74.98	=	141.21	FT
Pier 5, Downspout Pipe to Outlet:			66.20	+	74.95	=	141.15	FT
Pier 6, Downspout Pipe to Outlet:			56.36	+	65.11	=	121.47	FT
Pier 7, Downspout Pipe to Outlet:			66.50	+	75.25	=	141.75	FT
Pier 8, Downspout Pipe to Outlet:			33.84	+	42.59	=	76.43	FT
Pier 9, Downspout Pipe to Outlet:			3.30	+	12.05	=	15.35	FT
Pier 10, Downspout Pipe to Outlet:			4.30	+	13.05	=	17.35	FT
Subtotal:							1,731.20	FT
Total:							1,731.20	FT
Total for Superstructure:						Say:	1,800	_FT
Total for ITEM 518 - PIPE DOWNSPOUT, INCLUDING SPECIALS, AS PER PLAN, 10":							1,800	_FT

#### ITEM 518 - STRUCTURE DRAINAGE, MISC.: GUTTER TROUGH CLEANOUT

This item paid as a LUMP SUM.

## ITEM 530 - SPECIAL - CURB PLATE SURFACE COATING

Rear Abutment:			
Bridge Railing, LT: Bridge Railing, RT:		18.50 17.25	FT FT
Total:		35.75	FT
Total for Forward Abutment:	Say:	36	_FT
Superstructure			
Bridge Railing, LT: Bridge Railing, RT:		1,604.00 1,604.00	
Total:		3,208.00	FT
Total for Forward Abutment:	Say:	3,208	FT
Forward Abutment:			
Bridge Railing, LT: Bridge Railing, RT:		244.58 68.73	FT FT
Total:		313.31	FT
Total for Forward Abutment:	Say:	314	FT
Total for ITEM 530 - SPECIAL - CURB PLATE SURFACE COATING		3,558	FT



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# ITEM 601 - CRUSHED AGGREGATE SLOPE PROTECTION

Piers:												
	No.	Length (ft)		Width (ft)		Height (ft)						
Pier 2, Below Pipe RT & LT:	2	х	4.00	x	4.00	х	1.00	/	27	=	1.19	CY
Pier 3, Below Pipe LT:	2	х	4.00	х	4.00	х	1.00	1	27	=	1.19	CY
Pier 6, Below Pipe LT:	1	х	4.00	х	4.00	х	1.00	1	27	=	0.59	CY
Pier 7, Below Pipe LT:	1	X	4.00	Х	4.00	Х	1.00	,	27	=	0.59	CY
Pier 9, Below Pipe RT:	1	x	4.00	X	4.00	X	1.00	,	27	=	0.59	CY
Pier 10, Below Pipe RT:	1	X	4.00	X	4.00	X	1.00	,	27		0.59	CY
Plei 10, below Pipe K1.		Х	4.00	Х	4.00	Х	1.00	/	21	-	0.59	Ci
											4.74	CY
												01
Total for Piers:										Say:	5	CY
Total for ITEM 601 - CRUSHED AGGREGATE SLOPE PROTECTION:											5	CY
Total for TIEM 601 - CROSHED AGGREGATE GEOFE FROTECTION.											<u> </u>	
ITEM 601 - ROCK CHANNEL PROTECTION, TYPE A WITH GEOTEXT	ILE FA	<u>BRIC</u>										
Piers:												
1 10101												
					AD Area (s		Height (ft)					
Pier 4:						х	4.00	1	27	=	1,426.07	CY
					0,020.00	^		•			., .20.0.	٠.
										Say:	1,500	CY
Total for ITEM 601 - ROCK CHANNEL PROTECTION, TYPE A WITH C	GEOTE	KTILE F	ABRIC:								1,500	CY
ITEM 601 - ROCK CHANNEL PROTECTION, TYPE B WITH GEOTEXT	II E E A	BBIC										
TIEM 601 - ROCK CHANNEL PROTECTION, TIPE B WITH GEOTEXT	ILL FA	BRIC										
Piers:												
1 1013.												
					AD Area (s		Height (ft)					
Pier 5:					7,464.00	х	2.50	1	27	=	691.11	CY
I ICI J.					1,404.00	^	2.00	,	21	-	091.11	Ci
										Say:	700	CY
										, ,		
Total for ITEM 601 - ROCK CHANNEL PROTECTION, TYPE B WITH O	GEOTE	XTILE F	ABRIC:								700	CY
												_



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# ITEM 607 - VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC

Rear Abutment:							
Fence Rebuilt, LT: Fence Rebuilt, RT:	Say, length of bridge railing minus 1'-0" = Say, length of bridge railing minus 1'-0" =				=	17.50 16.25	FT FT
Total:						33.75	FT
Total for Rear Abutment:					Say:	34	_FT
Forward Abutment:							
Fence Rebuilt, LT: Fence Rebuilt, RT:	Say, length of bridge railing minus 1'-0" = Say, length of bridge railing minus 1'-0" =				=	242.58 66.73	FT FT
Total:						309.31	FT
Total for Forward Abutme	ent:				Say:	310	FT
Superstructure:							
Fence Rebuilt, LT: Fence Rebuilt, RT:	Say, length of bridge railing = Say, length of bridge railing =				=	1,598.00 1,598.00	
Total:						3,196.00	) FT
Total for Superstructure:					Say:	3,196	_FT
Total for ITEM 607 - VAND	OAL PROTECTION FENCE, 6' STRAIGHT, COATED FAB	RIC:				3,540	_FT
ITEM 844 - CONCRETE PA	ATCHING WITH GALVANIC ANODE PROTECTION, AS F	PER PLAN					
Rear Abutment:							
Backwall Repair: Bridge Railing Repair (se	e "Railing" tab):	No. 1 x	Length (ft) 0.00	) Width (ft) x 0.00 / 1	=	0.00 0.00	SF SF
Total:						0.00	SF
Total for Rear Abutment:		Increase by:	50%	for future deterioration	Say:	0	_SF
Forward Abutment:		NI-	1 (51)	NACCIAL (EA)			
Backwall Repair: Bridge Railing Repair (se	e "Railing" tab):	No. 1 x	Length (ft) 6.71	) Width (ft) x 1.25 / 1	=	8.39 25.00	SF SF
Total:						33.39	SF
Total for Forward Abutme	ent:	Increase by:	50%	for future deterioration	Say:	51	SF
Superstructure:				Area (s	7		
Railing: See Tables of	n Sheet 11/16			416.0	=	416.0	SF
Total:						416.0	SF
Total for Superstructure:					Say:	416	SF
					,		

Total for ITEM 844 - CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION, AS PER PLAN:

467

SF