

Calculated by: AI 6/2/2022 CUY-BH-FY2023 MISC: LOCATION 1 (CUY-90-10.62)  
 Checked by: JS 6/3/2022 PID: 105909



ITEM	EXT	TOTAL	UNIT	DESCRIPTION
202	11203	\$ 45,000.00	LS	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN

Deck Removal	Length	98.33333333	ft	times 2 for both ends of bridge
	Width	2	ft	
	Total	393.3333333	sft	

Abut. Backwall	Length	85	ft	Backwall under approach roadway
	Height	1.416666667	ft	
	subototal	120.4166667	sft	
	Length	14	ft	backwall under sidewalk
	Height	2.25	ft	backwall height from approach slab seat to top of sidewalk
	subotoal	31.5	sft	
	Total	303.8333333	sft	times 2 for both abutments

Barrier	Length	4	ft	2 ft east and 2 ft west barrier removal
	Total	8	Lft	times 2 for both ends

Safety Barrier	Length	54	ft	2ft on deck and 25 on approach slab
	Total	108	Lft	times 2 for both ends

Sidewalk	Length	64	ft	times 2 for both ends of bridge
	width	6	ft	
	Total	768	ft	

Median Curb	Length	239	ft
	width	4	ft
	Total	956	sft

ITEM	EXT	TOTAL	UNIT	DESCRIPTION
509	10001	4241	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN

This comes from reinforcing list

ITEM	EXT	TOTAL	UNIT	DESCRIPTION
509	20001	500	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN

500 LBS

ITEM	EXT	TOTAL	UNIT	DESCRIPTION
202	22900	567	SY	APPROACH SLAB REMOVED

30 FT APP. SLAB

Ex. Rear App. Slab	Width	85	ft	42.5 x 2
	Length	30	ft	
	Total	2550	sft	

Ex. FWD App. Slab	Width	85	ft
	Length	30	ft
	Total	2550	sft

Total	5100	sft	Area
	567	sy	Total
	\$58.00	\$/sy	Average Bid
	\$32,886.00	\$	Total Cost

ITEM	EXT	TOTAL	UNIT	DESCRIPTION
511	34413	35.81	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE, AS PER PLAN

Deck	PORTION OF DECK FOR EXP. JOINTS			Length (98.94 x 2) Width thickness
	Length	197.88	ft	
	Width	2.00	ft	
	Thickness	9.75	inches	
	Area	321.56	cft	
	Total	11.91	cy	
	Deck plus Sidewalk			Length Width average 11" sidewalk
	Length	28.96	ft	
	Width	2.00	ft	
	Thickness	11.00	inches	
		53.09	cft	
		1.97	cy	

Calculated by: AI 6/2/2022 CUY-BH-FY2023 MISC: LOCATION 1 (CUY-90-10.62)  
 Checked by: JS 6/3/2022 PID: 105909



Parapet	Length	8	ft	Length (only 2 ft of parapet will be rebuild)
	Width	1	ft	width of parapet
	Height	2.333333333	ft	height of parapet
	Area	18.66666667	cft	Area
	Total	0.691358025	CY	TOTAL

SAFETY BARRIER	Area	2.496	sf	Length (2.496 SFT AREA OF SAFETY BARRIER MEASURED IN CAD)
	Length	8	ft	Length of Safety Barrier to be removed over deck (2' x 4)
	Area	19.968	cft	Area
	Total	0.739555556	CY	TOTAL

6" MEDIAN CURB	Length	239	ft	Length
	Width	3.833333333	ft	width of median curb from 1975 plans
	Height	0.604166667	ft	height of median curb from 1975 plans
	Area	553.5173611	cft	Area
	Total	20.500643	CY	TOTAL

35.81 CY Concrete Total  
 889.70 \$/CY Cost  
 \$31,857.86 \$ Total Cost

ITEM	EXT	TOTAL	UNIT	DESCRIPTION
511	45710	15.20	CY	CLASS QC1 CONCRETE, ABUTMENT

Backwall	Backwall under roadway			
	Length	197.88	ft	Length of both abutment walls. (98 ft x skew angle x 2)
	Width	1.25	ft	Width
	Height	1.42	ft	thickness
	Area	350.41	cft	
	Subtotal	12.98	cy	
	Length	24.22	ft	Length of backwall under sidewalk (6 ft sidewalk x skew angle x 2 x 2 ( two on each side)
	Width	1.25	ft	Width
	Thickness	1.98	ft	measured in CADD
	Area	60.05	cft	
	Subtotal	2.22	cy	
	Total			15.20 cy

ITEM	EXT	TOTAL	UNIT	DESCRIPTION
511	53010	17.96	CY	CLASS QC1 CONCRETE, MISC.: APPROACH SIDEWALKS, SAFETY BARRIER TRANSITIONS
ROADWAY/APPROACH SIDEWALK	Length	120	ft	Length ALONG APP. SLAB (30*4)
	Width	6	ft	width of parapet
	Height	6	inches	height of parapet
	volume	360	cft	Area
	Total	13.33333333	CY	TOTAL
SAFETY BARRIER	AREA	2.496	SFT	AREA OF SAFETY BARRIER MEASURED IN CAD
	Length	25	ft	total length over approach slab
	volume	124.8	cft	Volume (times 4 for four safety barriers)
Total	4.622222222	CY	TOTAL	

ITEM	EXT	TOTAL	UNIT	DESCRIPTION
512	10050	821	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)

deck side	Perimeter	4.42	ft	only on sidewalk
	Width	239.00	ft	barrier and sidewalk should be sealed the whole length of the bridge deck
	Total	2111.17	sft	

app. Slab side	Perimeter	4.42	ft	sidewalk on approach slab
	Width	120.00	ft	Length of sidewalk and barrier on app. Slab side (ALL 4 SIDES)
	Total	530.40	sft	

293.51 SY

ITEM	EXT	TOTAL	UNIT	DESCRIPTION
512	10101	462	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN

deck side	Perimeter	9.78	ft	from toe of curb to toe of safety barrier plus safety barrier plus parapet inside face plus 4"
	Width	239.00	ft	barrier on bridge deck plus approach
	Total	4674.84	sft	

519.43 SY

app. Slab	Perimeter	7.45	ft	from toe of curb to toe of safety barrier plus safety barrier plus parapet inside face plus 4"
	Width	25.00	ft	barrier on bridge deck plus approach
	Total	745.00	sft	

82.78 SY  
 Total 602.20

Calculated by: AI 6/2/2022 CUY-BH-FY2023 MISC: LOCATION 1 (CUY-90-10.62)  
 Checked by: JS 6/3/2022 PID: 105909



ITEM	EXT	TOTAL	UNIT	DESCRIPTION
512	10301	27	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN, AS PER PLAN

App. Slab	width	2.00	ft	1' on each side of each construction joint
	Length	313.50	ft	4 construction joints at 30' plus two construction joint in slab 96.75
		627.00	sft	
		69.67	sy	

ITEM	EXT	TOTAL	UNIT	DESCRIPTION
516	10000	234.5	FT	preformed ELASTOMERIC COMPRESSION SEAL

Longitudinal joint sealer			
Length	234.5	ft	Length
Average Bid	98	\$/ft	Average Bid
Total Cost	\$22,981.00	\$	Total Cost

ITEM	EXT	TOTAL	UNIT	DESCRIPTION
516	11210	193.8	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL

Length	192.67	ft	Length measure in CADD
Average Bid	800	\$/ft	Average Bid
Total Cost	\$154,136.00	\$	Total Cost

ITEM	EXT	TOTAL	UNIT	DESCRIPTION
516	13600	90	SF	1" PREFORMED EXPANSION JOINT FILLER

Length	62.5	ft	TWO BACKWALLS (1.25*2) PLUS TWO APP. SLABS (2*30
height	1.416666667	ft	REMOVAL HIEGHT OF BACKWALL AND APP. SLAB
	88.54166667		

ITEM	EXT	TOTAL	UNIT	DESCRIPTION
519	11101	4.6	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN

West Parapet (three locations with vertical cracks need patch repair)			
Length	3.166666667	ft	Length (front and back on parapet)
Width	1	ft	Width of Repair
Depth	0.33	ft	Average Depth (4")
Total	0.464444444	CY	Total (4 vertical cracks)
East Parapet Remove and Replace			
Area	330	sft	Total Delaminated areas from parapet delemainted area spreadsheet
Depth	0.333	ft	Average Depth (4")
Tota	109.89	cft	Total
Tota	4.07	CY	Total

ITEM	EXT	TOTAL	UNIT	DESCRIPTION
526	30010	567	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=17")

30 FT APP. SLAB			
Length	60	ft	
Width	85	ft	
Area	5100	sft	
Total	567	sy	
Average Bid	275	\$/sy	
Total Cost	\$155,925.00	\$	

ITEM	EXT	TOTAL	UNIT	DESCRIPTION
607	39994	299	FT	TEMPORARY VANDAL FENCE, TYPE B

Should the the shortest length of the folowing

1. 30-ft ± 2.5 ft beyond the under bridge route's edge of traveled way nearest the fence terminal

Under Bridge route (IR 90)  
 Travelled way Travelled way

**FENCING LIMITS**

PROVIDE THE LENGTH SHOWN IN THE PLANS. IF NO LENGTH IS SHOWN THEN FENCING ON THE BRIDGE SHALL EXTEND BETWEEN ITS END POSTS PLACED AT THE LOCATIONS SELECTED FROM THE FOLLOWING LIST THAT CREATES THE SHORTEST LENGTH:

- 30-FT ± 2.5-FT BEYOND THE UNDER BRIDGE ROUTE'S EDGE OF TRAVELED WAY NEAREST THE FENCE TERMINAL
- THE CENTERLINE OF THE ABUTMENT EXPANSION JOINT (-2.5-FT, + 0-FT)
- THE END OF THE BRIDGE BARRIER (-2.5-FT, +0-FT)