

BURGESS & NIPLE, INC. - COMPUTATION SHEET

JOB NO. 61865 JOB NAME Cemetery Road Shared Use Path
SUBJECT Bridge QuantitiesSHEET 1 OF 4
PREPARED BY BWC DATE 12/11/2025
CHECKED BY SCA DATE 1/30/2026

503	21300 UNCLASSIFIED EXCAVATION	LS	LS
	Abutment Excavation Area = 0 SF		
	Pier Excavation Area = 288.33 SF		
	Excavation Height @ RA = 0 ft		Btm footing above existing ground
	Excavation Height @ Pier = 4.4 ft		870 assumed contour line
	Excavation Height @ FA = 0 ft		
	Total = 47 CY		
	Total = LS LS		
505	11100 PILE DRIVING EQUIPMENT MOBILIZATION	LS	LS
	Total = LS LS		
507	00500 12" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN	660	FT
	Length RA = 60 ft		
	Length FA = 50 ft		
	No of piles per abutment = 6 ea		
	Total = 660 ft		
507	00550 12" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED	720	FT
	Length RA = 65 ft		
	Length FA = 55 ft		
	No of piles per abutment = 6 ea		
	Total = 720 ft		
507	00600 14" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN	360	FT
	Length Pier 1 = 30 ft		
	No of piles per pier = 12 ea		
	Total = 360 ft		
507	00650 14" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED	420	FT
	Length Pier 1 = 35 ft		
	No of piles per pier = 12 ea		
	Total Pile Length = 420 ft		
509	10000 EPOXY COATED STEEL REINFORCEMENT	70394	LB
	01/S>2 Total = 69157 LB		
	02/S>2 Total = 1275 LB		
	Total = 70432 LB		
511	33501 SEMI-INTEGRAL DIAPHRAGM GUIDE, AS PER PLAN	2	EACH
	Total = 2 EA		
511	34447 CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK, AS PER PLAN	140	CY
	Bridge Deck	Haunch	Add'l Deck Overhang
	Length = 240.1666 ft	Height = 4.5 in	Height = 2 in
	Width = 16.3333 ft	Length = 240.1666 ft	Length = 240.1666 ft
	Deck = 8.5 in	Width = 5.00 ft	Width = 1.67 ft
	Volume = 102.9 CY	Volume = 16.7 CY	Number = 2 ea
			Volume = 2.5 CY
	Pier Diaphragm	Abutment Diaphragm	Abutment Guide Deduct
	Length = 11.36 ft	Length = 3.833 ft	Length = 3.83 ft
	Width = 1.6667 ft	Width = 16.333 ft	Width = 2.33 ft
	Polystyrene Filler Height = 3.44 in	Polystyrene Filler Height = 2.710 in	Height = 2.17 ft
	Height = 4.685 ft	Height = 6.05 ft	Number = 2 ea
	Number = 1 ea	Number = 2 ea	Volume = -1.4 CY
	Volume = 3.28 cy	Volume = 19.85 cy	
	Beam Area = 5.5 sf	Beam Area = 5.5 sf	
	Avg Embed. Length = 0.583 ft	Avg Embed. Length = 2.75 ft	
	# Beams = 6 ea	# Beams = 3 ea	
	Volume Deducted = -0.71 cy	Volume Deducted = -3.35 cy	
	# beams = 1	App Slab Seat Width = 0.5 ft	
	Area = 5.48 sf	App Slab Seat Height = 1.4167 ft	
	Thickness = 0.50 ft	Number = 2	
	Volume = 0.10 cy	Volume Deducted = -0.16 cy	
	Deck Subtotal = 105.4 cy		
	Add'l Haunch + Dia. = 34.3 cy		
	Total = 140 CY		

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Includes curb information*

Parapet		Curb	
Parapet Height =	1.5 ft	Height =	0.599 ft
Parapet Width =	1.0833 ft	Width =	1.667 ft
Total Length =	370.78 ft	Length =	370.78 ft
# Parapets =	2.00 ea	# Curbs =	2.00 ea
Volume =	44.6 cy	Volume =	27.4 cy

Total = **73** CY**511 41010 CLASS QC1 CONCRETE, PIER ABOVE FOOTINGS****40 CY***Includes aesthetic columns*

Pier Cap Concrete		Pier Aesthetic Columns	
# Sections =	2 ea	Quantity =	2 EA
Plan Area =	22.98 sf	Section E-E Area =	12.57 SF
Avg Height =	3.34 ft	Section E-E Height =	4.08 FT
Volume =	5.69 CY	Section A-A Area =	10.10 SF
		Section A-A Height =	1.37 FT
		Column Area =	3.14 SF
		Column Height =	9.94 FT
		Hat Area =	5.59 SF
		Hat Height =	0.667 FT
		Volume =	7.41 CY

Pier Column Concrete	
Diameter =	4 ft
Area =	12.57 sf
Height =	18.03 ft
No. of Columns =	3 per Pier
Volume =	25.17 cy

01/S>2 Total = **32** CY02/S>2 Total = **8** CYTotal = **40** CY**511 43510 CLASS QC1 CONCRETE, ABUTMENT INCLUDING FOOTING****45 CY**

Stem Width =	3.833 ft	WW Length =	1.833 ft
Stem Length =	20.375 ft	WW Thickness =	2.50 ft
Stem Height =	1.5 ft	Avg WW Height =	7.867 ft
No of Abuts =	2 ea	# Wingwalls =	4 ea
Volume =	8.7 cy	Volume =	5.3 cy

Footing Width =	6.750 ft
Footing Length =	20.375 ft
Footing Height =	3 ft
No of Abuts =	2 ea
Volume =	30.6 cy

Total = **45** CY**511 44110 CLASS QC1 CONCRETE, ABUTMENT NOT INCLUDING FOOTING****5.0 CY***Includes aesthetic columns*

Quantity =	4	EA
Column Area =	3.142	sf
Height =	7.932	FT
Hat Area =	5.586	sf
Hat Height =	0.66667	FT

Total = **5.0** CY**511 46510 CLASS QC1 CONCRETE, FOOTING****27 CY***Includes pier footings*

Width =	8	ft
Length =	10	ft
Depth =	3	ft
# Footings =	3	ea

Total = **27** CY**511 51511 CLASS QC2 CONCRETE, SIDEWALK, AS PER PLAN****39 CY***Includes pier footings*

Slab Width =	16.3333	ft
Avg Slab Length =	31.51	ft
Slab Thickness =	1	ft
# Slabs =	2	ea

Total = **39** CY

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SHEET 3 OF 4
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512 10101 SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN 1221 SY
Includes bridge abutments, deck and parapet surfaces as shown in the plans, and all exposed concrete surfaces of the pier except the top of the pier cap

Parapet Sealing Length = 370.78 ft Height = 1.5 ft Top Width = 1.08 ft # Parapets = 2 ea Area Subtotal = 336.45 sy 3028.044403 Edge of Bridge Deck Sealing Deck Length = 239.18 ft Deck Thickness = 0.7083 ft Underside Width = 1.68 ft # Sides = 2 ea Area Subtotal = 126.69 sy 1140.230939 Abutment Diaphragm Diaphragm Width = 3.83333 ft Diaphragm Length = 16.333 ft Diaphragm Height = 6.054 ft # Diaphragms = 2 ea Deduct Beam Area = 5.479 sf # Beams Per Diaphragm = 3 ea Area Subtotal = 21.91 sy Abutment Wingwalls WW Length = 1.833 ft WW Thickness = 2.50 ft Avg WW Height = 7.867 ft # Wingwalls = 4 ea Area Subtotal = 17.60 sy Pier Columns Exposed Column Height = 16.09 ft Column Circumference = 12.57 ft # Columns = 3 ea Area Subtotal = 67.40 sy Pier Decorative Column (Half-Circle) Perimeter (CAD) = 11.8392 ft Avg Height = 1.619791667 ft # Columns = 2 ea Area Subtotal = 4.26 sy 01/S>2 Total = 1178 SY 02/S>2 Total = 60 SY Total = 1221 SY	Curb Sealing Length = 370.78 ft Height = 0.599 ft Exposed Top Width = 0.583 ft # Curbs = 2 ea Area Subtotal = 146.72 sy 1320.438547 Abutment Decorative Column Avg Column Height = 7.93 ft Column Circumference = 6.28 ft # Columns = 4 ea Area Subtotal = 22.15 sy 199.356045 Abutment Stem Stem Width = 3.83333 ft Stem Length = 20.375 ft Stem Thickness = 1.5 ft # Abutments = 2 ea Area Subtotal = 9.35 sy Pier Cap Cap Perimeter (CAD) = 50.35 ft Avg Cap Height = 3.34 ft Area Subtotal = 18.69 sy Pier Decorative Column Avg Column Height = 9.60 ft Column Circumference = 6.28 ft # Columns = 2 ea Area Subtotal = 13.40 sy	Beam Sealing Exposed Beam Length = 118.67 ft Exposed Beam Height = 7.851 ft # Edge Beams = 2 ea # Spans = 2 ea Area Subtotal = 414.07 sy 3726.654 Abutment Decorative Cap Cap Height = 0.667 ft Cap Circumference = 8.379 ft Exposed O.D. = 2.67 ft Exposed I.D. = 2 ft # Caps = 4 ea Area Subtotal = 6.05 sy 54.46935 Abutment Footing Footing Width = 6.5 ft Footing Length = 20.375 ft Footing Thickness = 3 ft # Abutments = 2 ea Area Subtotal = 18.54 sy Add'l Height Pier Column Avg Column Height = 4.08 ft Column Circumference = 12.57 ft # Columns = 2 ea Area Subtotal = 11.39 sy Pier Decorative Cap Cap Height = 0.667 ft Cap Circumference = 8.379 ft Exposed O.D. = 2.67 ft Exposed I.D. = 2 ft # Caps = 2 ea Area Subtotal = 3.03 sy
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515 15020 DRAPED STRAND PRESTRESSED CONCRETE BRIDGE I-BEAM MEMBERS, LEVEL 3, TYPE 4 (BEAM LENGTH = 122'-7") 6 EACH

Beams Per Span = 3	EA	Say \$60k for 92'
Length = 122.5833	FT	\$79,945.63
No. of Spans = 2	EA	
Total Length = 736	FT	
Total = 6	EA	

515 20000 INTERMEDIATE DIAPHRAGMS 12 EACH

Total = 12 EA

516 13900 2" PREFORMED EXPANSION JOINT FILLER 42 SF

Length = 16.33333	ft
Thickness = 1	ft
# = 2	ea
Subtotal = 32.667	sf
Height @ App Parapet = 1.50	ft
Width @ App Parapet = 1.083	ft
Height @ App Curb = 1.698	ft
Width @ App Curb = 1.667	ft
# = 4	ea
Subtotal = 8.455	sf
Total = 42	SF

516 14020 SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL 47 FT

Joint Width = 16.33	ft
Width @ WW = 3.5	ft
# Abutments = 2	EA
Total = 47	FT

516 44101 ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (BEARING: 15" x 12 1 6 EACH

Abutment = 6	EA
Total = 6	EA

516 44101 ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (BEARING: 14 1/2" x 6 EACH

Pier = 6	EA
Total = 6	EA

517 76300 RAILING, MISC: BRIDGE RAILING, AS PER PLAN 229 FT

Total = 229 FT

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Backfill Length = 20.70833 ft
Backfill Thickness = 2 ft
Abutments = 2 eaTotal = 21 CY**518 40000 6" PERFORATED CORRUGATED PLASTIC PIPE****40 FT**Pipe Length @ RA = 20.00 ft
Pipe Length @ FA = 20.00 ftTotal = 40 FT**523 20000 DYNAMIC LOAD TESTING****2 EACH**Total = 2 EA**526 30000 REINFORCED CONCRETE APPROACH SLABS (T=17")****109 SY**Width = 16.33333 ft
Length = 30 ft
of Approach Slabs = 2 EATotal = 109 SY**526 90030 TYPE C INSTALLATION****33 FT**Sleeper Slab Length = 16.33 ft
of Approach Slabs = 2 EATotal = 33 FT**530 01300 SPECIAL - STRUCTURE, MISC.: FENCE WITH DECORATIVE ARCH****480 FT**Total = 480 ft