



CLIENT	Village of Valley View
PROJECT	Fosdick Road Bridge Replacement
SUBJECT	Structure Estimated Quantities

PROJECT NO.	1243		
COMP. BY	CMA	DATE	11/26/2025
CHECKED BY	LAB	DATE	12/3/2025

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

This item is paid for Lump Sum.

ITEM 203 - EXCAVATION

General:

	Number		Length (ft)		Area (ft^2)							
Rear Abutment:	1	x	110.00	x	79.00	/	27	=	321.85		CY	
Forward Abutment:	1	x	110.00	x	55.00	/	27	=	224.07		CY	

Total for General: 545.93 CY

Total for General: Say: 546.00 CY

Total for ITEM 203 - EXCAVATION: 546 CY

ITEM 203 - GRANULAR MATERIAL, TYPE B, AS PER PLAN

General:

	Number		Length (ft)		Area (ft^2)							
Rear Abutment:	1	x	110.00	x	96.00	/	27	=	391.11		CY	
Forward Abutment:	1	x	110.00	x	70.00	/	27	=	285.19		CY	

Total for General: 676.30 CY

Total for General: Say: 677.00 CY

Total for ITEM 203 - GRANULAR MATERIAL, TYPE B, AS PER PLAN: 677 CY

ITEM 204 - GEOTEXTILE FABRIC

General:

	Number		Length (ft)		Length (ft)							
Rear Abutment:	1	x	110.00	x	18.00	/	9	=	220.00		SY	
Forward Abutment:	1	x	110.00	x	16.00	/	9	=	195.56		SY	

Total for General: 415.56 SY

Total for General: Say: 416.00 SY

Total for ITEM 204 - GEOTEXTILE FABRIC: 416 SY

ITEM 503 - COFFERDAMS AND EXCAVATION BRACING

This item is paid for Lump Sum.

ITEM 503 - UNCLASSIFIED EXCAVATION

Rear Abutment:

	Number		Length (ft)		Width (ft)		Height (ft)					
Abutment Footing:	1	x	109.33	x	5.00	x	3.60	/	27	=	72.89	CY

Total for Rear Abutment: 72.89 CY

Total for Rear Abutment: Say: 73 CY

Forward Abutment:

	Number		Length (ft)		Width (ft)		Height (ft)					
Abutment Footing:	1	x	109.33	x	5.00	x	4.00	/	27	=	80.99	CY

Total for Forward Abutment: 80.99 CY

Total for Forward Abutment: Say: 81 CY

Total for ITEM 503 - UNCLASSIFIED EXCAVATION: 154 CY

ITEM 505 - PILE DRIVING EQUIPMENT MOBILIZATION

This item is paid for Lump Sum.

ITEM 507 - 16" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN

Rear Abutment:

Rear Abutment:	Number	x	Length (ft)	=	700.00	FT
	14		50.00			
Total for Rear Abutment:					700.00	FT
Total for Rear Abutment:				Say:	700	FT

Forward Abutment:

Rear Abutment:	Number	x	Length (ft)	=	770.00	FT
	14		55.00			
Total for Forward Abutment:					770.00	FT
Total for Forward Abutment:				Say:	770	FT

Total for ITEM 507 - 16" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN:					1470	FT
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ITEM 507 - 16" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED

Rear Abutment:

Rear Abutment:	Number	x	Length (ft)	=	770.00	FT
	14		55.00			
Total for Rear Abutment:					770.00	FT
Total for Rear Abutment:				Say:	770	FT

Forward Abutment:

Rear Abutment:	Number	x	Length (ft)	=	840.00	FT
	14		60.00			
Total for Forward Abutment:					840.00	FT
Total for Forward Abutment:				Say:	840	FT

Total for ITEM 507 - 16" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED:					1610	FT
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ITEM 509 - EPOXY COATED REINFORCING STEEL

General:

Superstructure:	=	58391	LB
Rear Abutment:	=	7179	LB
Forward Abutment:	=	6747	LB
SBR-1-20 Parapet:	=	1399	LB
Total for General:		73716	LB
Total for General:	Say:	73716	LB

Total for ITEM 509 - EPOXY COATED REINFORCING STEEL:		73716	LB
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ITEM 509 - NO. 4 DEFORMED GFRP REINFORCING STEEL

General:

Superstructure:	=	829	FT
Total for General:		829	FT
Total for General:	Say:	829	FT

Total for ITEM 509 - NO. 4 DEFORMED GFRP REINFORCING STEEL:		829	FT
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ITEM 511 - CLASS QC2 CONCRETE, SUPERSTRUCTURE

Superstructure:

	Number	Length (ft)	Width (ft)	Height (ft)							
Concrete Slab:	1	x 43.50	x 85.33	x 2.17	/	27	=	297.88	CY		
Sidewalk:	1	x 43.50	x 11.33	x 0.75	/	27	=	13.69	CY		
Integral Diaphragm:	2	x 85.33	x 2.25	x 1.79	/	27	=	25.48	CY		
End Diaphragms:	4	x 1.00	x 2.25	x 3.67	/	27	=	1.22	CY		
End Diaphragms (FWD Detail A):	1	x 11.50	x 2.25	x 3.67	/	27	=	3.51	CY		
End Diaphragms (FWD detail B):	1	x 2.08	x 2.25	x 3.67	/	27	=	0.64	CY		
	CY	Number	Length (ft)	Area (Sq Ft)							
SBR-1-20:	1	x 45.00	x 4.08	/	27	=	6.81	CY			
SBR-1-20 14'-0" Transition:	1.820	x 1					=	1.82	CY		

Total for Superstructure: 351.05 CY

Total for Superstructure: Say: 352 CY

Total for ITEM 511 - CLASS QC2 CONCRETE, SUPERSTRUCTURE: 352 CY

ITEM 511 - CLASS QC1 CONCRETE, ABUTMENT INCLUDING FOOTING

Rear Abutment:

	Number	Length (ft)	Width (ft)	Height (ft)							
Pile Cap:	1	x 107.33	x 3.00	x 3.00	/	27	=	35.78	CY		
Abutment Stem:	1	x 107.33	x 2.25	x 3.45	/	27	=	30.86	CY		
Wingwalls (1-Left):	1	x 2.25	x 1.50	x 2.96	/	27	=	0.37	CY		
Wingwalls (2-Left):	1	x 4.21	x 2.25	x 2.96	/	27	=	1.04	CY		
Wingwalls (3-Left):	1	x 8.42	x 2.25	x 0.70	/	27	=	0.49	CY		
Wingwalls (1-Left):	1	x 2.25	x 1.50	x 2.96	/	27	=	0.37	CY		
Wingwalls (2-Right):	1	x 4.21	x 2.25	x 2.96	/	27	=	1.04	CY		
Wingwalls (3-Right):	1	x 8.42	x 2.25	x 0.70	/	27	=	0.49	CY		

Total for Rear Abutment: 70.43 CY

Total for Rear Abutment: Say: 71 CY

Fwd Abutment:

	Number	Length (ft)	Width (ft)	Height (ft)							
Pile Cap:	1	x 107.33	x 3.00	x 3.00	/	27	=	35.78	CY		
Abutment Stem:	1	x 107.33	x 2.25	x 2.30	/	27	=	20.57	CY		
Wingwalls (1-Left):	1	x 2.25	x 1.50	x 2.96	/	27	=	0.37	CY		
Wingwalls (2-Left):	1	x 4.21	x 2.25	x 2.96	/	27	=	1.04	CY		
Wingwalls (3-Left):	1	x 8.42	x 2.25	x 0.70	/	27	=	0.49	CY		
Wingwalls (1-Left):	1	x 2.25	x 1.50	x 2.96	/	27	=	0.37	CY		
Wingwalls (2-Right):	1	x 4.21	x 2.25	x 2.96	/	27	=	1.04	CY		
Wingwalls (3-Right):	1	x 8.42	x 2.25	x 0.70	/	27	=	0.49	CY		

Total for Fwd Abutment: 60.15 CY

Total for Fwd Abutment: Say: 61 CY

Total for ITEM 511 - CLASS QC1 CONCRETE, ABUTMENT INCLUDING FOOTING: 132 CY

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

Superstructure:

	Number	Length (ft)	Width (ft)	Width (ft)							
Sidewalk	1	x 43.50	x 0.5 x (10.67	+ 10.67)	/	9	=	51.56	SY		

Total for Superstructure: 51.56 SY

Total for Superstructure: Say: 52 SY

Total for ITEM 512 - SEALING OF CONCRETE SURFACES (NON-EPOXY): 52 SY

ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

Superstructure:

	Number		Length (ft)		Width (ft)		Width (ft)					
Superstructure Fascia:	2	x	43.50	x 0.5 x (	6.00	+	6.00	) /	9	=	58.00	SY
Parapet BR-2-15:	1	x	43.50	x 0.5 x (	2.00	+	2.00	) /	9	=	9.67	SY
Parapet SBR-1-20:	1	x	43.50	x 0.5 x (	5.00	+	5.00	) /	9	=	24.17	SY
Integral Diaphragm:	2	x	85.33	x 0.5 x (	1.50	+	2.08	) /	9	=	33.98	SY
End Diaphragms (faces):	4	x	1.00	x 0.5 x (	3.67	+	3.67	) /	9	=	1.63	SY
End Diaphragms (tops):	4	x	2.25	x 0.5 x (	1.17	+	1.17	) /	9	=	1.17	SY

Total for Superstructure: 128.60 SY

Total for Superstructure: Say: 129 SY

Rear Abutment:

	Number		Length (ft)		Width (ft)		Width (ft)					
Abutment (front face):	1	x	107.33	x 0.5 x (	1.55	+	1.55	) /	9	=	18.49	SY
Wingwalls (front face):	2	x	9.92	x 0.5 x (	3.66	+	0.70	) /	9	=	4.80	SY
Wingwalls (tops):	2	x	9.92	x 0.5 x (	2.25	+	2.25	) /	9	=	4.96	SY

Total for Rear Abutment: 28.25 SY

Total for Rear Abutment: Say: 29 SY

Forward Abutment:

	Number		Length (ft)		Width (ft)		Width (ft)					
Abutment (front face):	1	x	107.33	x 0.5 x (	0.50	+	0.50	) /	9	=	5.96	SY
Wingwalls (front face):	2	x	9.92	x 0.5 x (	3.66	+	0.70	) /	9	=	4.80	SY
Wingwalls (tops):	2	x	9.92	x 0.5 x (	2.25	+	2.25	) /	9	=	4.96	SY

Total for Forward Abutment: 15.73 SY

Total for Forward Abutment: Say: 16 SY

Total for ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE): 174 SY

ITEM 516 - 1/2" PREFORMED EXPANSION JOINT FILLER

Superstructure:

	Number		Width (ft)		Height (ft)							
Between Diaphragm & Stem wall:	2	x	0.75	x	85.33	=	128.00	SF				

Total for Superstructure: 128.00 SF

Total for Superstructure: Say: 128 SF

Total for ITEM 516 - 1/2" PREFORMED EXPANSION JOINT FILLER: 128 SF

ITEM 516 - 1" PREFORMED EXPANSION JOINT FILLER

Superstructure:

	Number		Width (ft)		Height (ft)							
Between Diaphragm & Wingwalls:	4	x	2.25	x	3.66	=	32.94	SF				
Between Rear App Slab and Parapet (BR-2-15):	1	x	1.33	x	2.00	=	2.67	SF				
Between Rear App Slab and Parapet (SBR-1-20):	1	x	1.67	x	3.50	=	5.83	SF				
Between Fwd App Slab and Parapet (SBR-1-20):	1	x	1.67	x	3.50	=	5.83	SF				
Between Diaphragm & Stem wall:	2	x	0.67	x	85.33	=	113.78	SF				

Total for Superstructure: 161.05 SF

Total for Superstructure: Say: 162 SF

Total for ITEM 516 - 1" PREFORMED EXPANSION JOINT FILLER: 162 SF

ITEM 516 - INTEGRAL ABUTMENT EXPANSION JOINT SEAL

Superstructure:

	Number		Length (ft)									
Behind End Diaphragms:	2	x	90.33	=	180.67	FT						

Total for Superstructure: 180.67 FT

Total for Superstructure: Say: 181 FT

Total for ITEM 516 - INTEGRAL ABUTMENT EXPANSION JOINT SEAL: 181 FT

ITEM 517 - RAILING (CONCRETE PARAPET WITH TWIN STEEL TUBE RAILING), AS PER PLAN

Superstructure:

BR-2-15 Railing:	Number	1	x (	Length (ft)	0.00	+	Length (ft)	59.00	+	Length (ft)	0.00	) =	59.00	FT
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Total for Superstructure:													59.00	FT
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Total for Superstructure:													Say:	59	FT
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Total for ITEM 517 - RAILING (CONCRETE PARAPET WITH TWIN STEEL TUBE RAILING), AS PER PLAN:														59	FT
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ITEM 518 - POROUS BACKFILL WITH GEOTEXTILE FABRIC

Rear Abutment:

Behind Abutment:	Number	1	x	Length (ft)	107.33	x	Width (ft)	2.00	x	Height (ft)	8.00	/	27	=	63.60	CY
Behind wingwall (above CJ):	2	x	10.00	x	2.00	x	2.18	/	28	=	3.11	CY				
Total for Rear Abutment:															66.72	CY

Total for Rear Abutment:															Say:	67	CY
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Forward Abutment:

Behind Abutment:	Number	1	x	Length (ft)	107.33	x	Width (ft)	2.00	x	Height (ft)	5.00	/	27	=	39.75	CY
Behind wingwall (above CJ):	2	x	10.00	x	2.00	x	2.43	/	28	=	3.47	CY				

Total for Forward Abutment:															43.22	CY
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Total for Forward Abutment:															Say:	44	CY
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Total for ITEM 518 - POROUS BACKFILL WITH GEOTEXTILE FABRIC:																111	CY
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ITEM 518 - 6" PERFORATED CORRUGATED PLASTIC PIPE

Rear Abutment:

Behind Abutment:	Number	1	x (	Length (ft)	107.33	+	Length (ft)	0.00	+	Length (ft)	0.00	) =	107.33	FT
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Total for Rear Abutment:													107.33	FT
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Total for Rear Abutment:													Say:	108	FT
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Forward Abutment:

Behind Abutment:	Number	1	x (	Length (ft)	107.33	+	Length (ft)	0.00	+	Length (ft)	0.00	) =	107.33	FT
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Total for Forward Abutment:													107.33	FT
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Total for Forward Abutment:													Say:	108	FT
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Total for ITEM 518 - 6" PERFORATED CORRUGATED PLASTIC PIPE:																216	FT
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ITEM 518 - 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS

Rear Abutment:

Behind Abutment:	Number	1	x (	Length (ft)	0.00	+	Length (ft)	10.00	+	Length (ft)	10.00	) =	20.00	FT
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Total for Rear Abutment:													20.00	FT
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Total for Rear Abutment:													Say:	20	FT
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Forward Abutment:

Behind Abutment:	Number	1	x (	Length (ft)	0.00	+	Length (ft)	10.00	+	Length (ft)	10.00	) =	20.00	FT
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Total for Forward Abutment:													20.00	FT
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Total for Forward Abutment:													Say:	20	FT
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Total for ITEM 518 - 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS:																40	FT
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ITEM 523 - DYNAMIC LOAD TESTING, AS PER PAN

General:

Dynamic Load Test:	=	1	EACH
Total for General:		1	EACH
Total for General:	Say:	1	EACH
Total for ITEM 523 - DYNAMIC LOAD TESTING, AS PER PAN:		1	EACH

ITEM 523 - RESTRIKE, AS PER PLAN

General:

Restrike:	=	1	EACH
Total for General:		1	EACH
Total for General:	Say:	1	EACH
Total for ITEM 523 - RESTRIKE, AS PER PLAN:		1	EACH

ITEM 526 - REINFORCED CONCRETE APPROACH SLABS (T = 12")

General:

Approach Slabs:	Number	Length (ft)	Width (ft)	Width (ft)						
	1	x 15.00	x 0.5 x (85.33	+ 85.33	) /	9	=	142.22	SY	
Total for General:								142.22	SY	
Total for General:							Say:	143	SY	
Total for ITEM 526 - REINFORCED CONCRETE APPROACH SLABS (T = 12"):								143	FT	

ITEM 526 - REINFORCED CONCRETE APPROACH SLABS (T = 12"), AS PER PLAN

area from cad

General:

Approach Slabs:	Number	CAD (Area) in^2	CAD (Area) ft^2							
	1	x 161983.41	= 1124.88	/	9	=	124.99	SY		
Total for General:								124.99	SY	
Total for General:							Say:	125	SY	
Total for ITEM 526 - REINFORCED CONCRETE APPROACH SLABS (T = 12"), AS PER PLAN:								125	SY	

ITEM 526 - TYPE A INSTALLATION

General:

End of Rear Approach Slab:	Number	Length (ft)	Length (ft)	Length (ft)						
End of Fwd Approach Slab:	1	x (85.33	+ 0.00	+ 0.00	) =	85.33	FT			
	1	x (80.00	+ 0.00	+ 0.00	) =	80.00	FT			
Total for General:						165.33	FT			
Total for General:							Say:	166	FT	
Total for ITEM 526 - TYPE A INSTALLATION:								166	FT	

ITEM 530 - ITEM SPECIAL - FORM LINER

General:

BR-2-15 (both sides):	Number	Length (ft)	Perimeter (ft)							
BR-2-15 (both sides):	1	x 46.00	x 3.33	=	153.33	SF				
SBR-1-20 (backside only)	2	x 6.50	x 3.17	=	41.17	SF				
	1	x 59.00	x 3.00	=	177.00	SF				
Total for General:					371.50	SF				
Total for General:							Say:	372	SF	
Total for ITEM 530 - ITEM SPECIAL - FORM LINER:								372	SF	



CLIENT	Village of Valley View
PROJECT	Fosdick Road Bridge Replacement
SUBJECT	Structure Estimated Quantities

PROJECT NO.	1243		
COMP. BY	CMA	DATE	11/26/2025
CHECKED BY	LAB	DATE	12/3/2025

ITEM 625 - STRUCTURE GROUNDING SYSTEM

General:

1 per Bridge = 1.00 EA

Total for General: 1.00 EA

Total for General: Say: 1 EA

Total for ITEM 625 - STRUCTURE GROUNDING SYSTEM: 1 EA