

General Information		Map	
Project ID			
Street Name	Broome Blvd.		
Site Visit Date	5/21/13		
Road Classification	Minor road		
Project Notes			
Rural Typical Section			
Field Notes			
Design (Existing Site Features)			
Existing Road Laneage	2 - 12'		
Existing Shld Width (paved and grass) (feet)	2		
Existing Side Slopes	flat		
Existing Guardrail	None		
Depth fm Pavement to Top of Culvert (ft):	4		
Pipe Type and Size	3.5x2.5 egg CMP		
Pipe Condition (1-5) (1 is new)	5		
Condition Notes: crushed headwall and pipe entrance			
Pavement Type/Condition	Asphalt/Poor		
Environmental Features		Stage Construction Options	
Wetlands		Close Location to Traffic	
Ditches		Maintain One Lane - No Temp Pavement	
		Maintain One Lane - Temp Road	X
Utilities (Visual Inspection)		Stage Construction Notes:	
Electric	Aerial		
Cable	Aerial		
Phone	Aerial		
Gas			
Water	Buried		
Sewer			
Other			
Proposed Design			
Roadway Section	Typical. For costing purposes, temporary road consists of 8" gravel fill		
Culvert Size & Material	dbl 8' x 5' box, concrete, 70' length. Cost of removing 2.5' x 2.5' elliptical CMP assumed equal to 36" round CMP. Cost of removing headwalls assumed equal to removal of entire length of pipe.		
Utility Relocations	Cable, telephone, water		
Guardrail Replacement			
Miscellaneous Features	Upstream bend in stream adjacent to roadway may need additional bank stabilization		
Planning Cost Estimate			
Type	Notes	Total	
Design	Includes 10% Construction Cost and surveying needs	\$38,940	
Right of Way Cost	Assuming project extends 12,000 sf beyond ROW	\$48,000	
Utility Relocation Cost	Buried and aerial utilities	\$25,300	
Construction Cost	5 acre clearing and grubbing, additional stabilization/diversi	\$264,404	
Environmental Permits and Engineer of Record Admin	Assuming minimal environmental permitting required	\$11,236	
Total Planning Estimate		\$387,880	





Photo 1:



Photo 2:

Broome Blvd

Photo Date:

1/05/2016

Taken By:

Public Works

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Roadway Construction, Utility Relocation and ROW Quantity Calculations

Roadway Construction	Removal Unit Cost	Installation Unit Cost	Amount	Total Cost
Pavement (SF)	\$ 0.73	\$ 4.87	432.00	\$ 2,421.50
Curb and Gutter (LF)	\$ 28.56	\$ 30.60	0.00	\$ -
Drain Inlet (EA)		\$ 3,000.00	0.00	\$ -
4" Sidewalk (SY)	\$ 13.56	\$ 36.90	0.00	\$ -
Guardrail (LF)	\$ 4.88	\$ 49.09	625.00	\$ 33,735.00
End Anchorage (EA)		\$ 1,380.00	2.00	\$ 2,760.00
Subtotal				\$ 38,916.50

Grading Complete (5% of Rwy Items & Drng Total \$) \$ 9,676.63

Roadway Total \$ 49,963.13

Drainage	Removal Unit Cost	Installation Unit Cost	Amount	Total Cost
Trench Excavation (CY)		\$ 10.38	373.33	\$ 3,875.20
36" CMP (LF)	\$ 19.62		140.00	\$ 8,240.40
36" RCP		\$ 134.40	0.00	\$ -
Class A Conc (CY)		\$ 892.19	132.51	\$ 118,223.83
Steel (lb)		\$ 1.42	13,383.00	\$ 18,950.33
Pipe Bedding (CY)		\$ 48.60	48.00	\$ 2,332.80
Trench Backfill (CY)		\$ 2.99	370.67	\$ 1,107.55
Trench Compaction (CY)		\$ 6.36	296.53	\$ 1,885.95

Drainage Total \$154,616.06

Signing and Marking	Installation Unit Cost	Amount	Total Cost
Permanent Striping (LF)	\$ 0.71	72.00	\$ 50.98

Signing and Marking Total \$ 50.98

Staging	Installation Unit Cost	Amount	Total Cost
Clearing and Grubbing (Acre)	\$ 10,260.00	0.20	\$ 2,052.00
Temporary Gravel Road (SY)	\$ 15.42	977.78	\$ 15,077.33
Temporary Drainage (Stream Diversion)	\$ 4,428.00	2.00	\$ 8,856.00

Staging Total \$ 26,087.29

Erosion Control	Installation Unit Cost	Amount	Total Cost
Fine Grading and Seeding (SY)	\$ 4.39	92.00	\$ 404.06
Temporary Grassing (AC)	\$ 855.60	0.00	\$ -
Type C Silt Fence (LF)	\$ 4.24	560.00	\$ 2,372.16
Check Dam Type C Silt Fence (LF)	\$ 6.79	560.00	\$ 3,803.52
Erosion Control Mats (SY)	\$ 1.87	560.00	\$ 1,048.32
Landscape Mulch (SY)	\$ 3.58	560.00	\$ 2,002.56
Perm Grassing (AC)	\$ 1,402.20	0.00	\$ -
Rip Rap Type 3 12" (SY)	\$ 60.98	48.00	\$ 2,927.23
Plastic Filter Fabric (SY)	\$ 5.72	48.00	\$ 274.75
4" Ditch Paving (SY)	\$ 54.65	0.00	\$ -

Erosion Control Total \$ 12,832.61

Construction Cost Total \$243,550.07

Traffic Control (8% of Construction Total \$) \$ 19,484.01

County Emergency Roadway Work \$ 1,370.00

Construction Cost Grand Total \$264,404.07

Utility Relocation	Removal Unit Cost	Installation Unit Cost	Amount	Total Cost
Electric				
Aerial	\$ 11.00	\$ 55.00		\$ -
Buried	\$ 16.50	\$ 82.50	0.00	\$ -
Wooden Pole	\$ 82.50	\$ 605.00		\$ -
Phone				
Aerial	\$ 11.00	\$ 27.50		\$ -
Buried	\$ 16.50	\$ 55.00	100.00	\$ 7,150.00
Wooden Pole	\$ 82.50	\$ 605.00		\$ -
Cable				
Aerial	\$ 11.00	\$ 27.50		\$ -
Buried	\$ 16.50	\$ 55.00	100.00	\$ 7,150.00
Wooden Pole	\$ 82.50	\$ 605.00		\$ -
Gas				
4" main	\$ 16.50	\$ 66.00		\$ -
Water				
8" main	\$ 16.50	\$ 93.50	100.00	\$ 11,000.00
Relocate Fire Hydrant (EA)		\$ 2,609.22		\$ -
Sewer			0.00	\$ -
12" main	\$ 16.50	\$ 82.50	0.00	\$ -
Utility Relocation Total				\$ 25,300.00

Right of Way (Sq Ft)	Cost/ Sq Ft	Sq Ft	Total Cost
Permanent Easement	\$ 4.00	12,000.00	\$ 48,000.00
ROW Total			\$ 48,000.00