

General Information		Map	
Project ID			
Street Name	503 Westbridge Drive		
Site Visit Date	5/22/13		
Road Classification	Internal Local		
Project Notes			
Urban typical section with Curb and gutter			
Field Notes			
Design (Existing Site Features)			
Existing Road Laneage	2-12'		
Existing Shld Width (paved and grass) (feet)	None		
Existing Side Slopes	Flat		
Existing Guardrail	None		
Depth fm Pavement to Top of Culvert (ft):	3		
Pipe Type and Size (with headwall, 45°)	48" CMP; 45'		
Pipe Condition (1-5) (1 is new)	4		
Condition Notes: Debris in channel; approx. 1.5' drop in last section of pipe; US filled/damaged to 3.5'			
Pavement Type/Condition	Good/Asphalt		
Environmental Features		Stage Construction Options	
Wetlands	None	Close Location to Traffic	
Ditches	None	Maintain One Lane - No Temp Pavement	X
		Maintain One Lane - Temp Pavement	
		Stage Construction Notes: Stage construction such that one lane is open at all times; street light next to crossing	
Utilities (Visual Inspection)			
Electric	Buried		
Cable	Buried		
Phone	Buried		
Gas			
Water	Buried		
Sewer			
Other			
Proposed Design			
Roadway Section			
Culvert Size & Material	5' x 3' box, concrete, 45' Length		
Utility Relocations	Electric, cable, phone, water		
Guardrail Replacement			
Miscellaneous Features			
Planning Cost Estimate			
Type	Notes	Total	
Design	Includes 10% Construction Cost and surveying needs	\$10,078	
Right of Way Cost	Assuming project extends 1,200 sf beyond ROW	\$4,800	
Utility Relocation Cost	Buried utilities	\$14,080	
Construction Cost	Assuming 1/10 acre clearing and grubbing	\$50,776	
Environmental Permits	Assuming minimal environmental permitting required	\$10,000	
Total Planning Estimate		\$89,733	



Photo 1:



Photo 2:

503 Westbridge Drive

Photo Date:

5/21/2013

Taken By:

David King

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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	168.00	\$941.70
Curb and Gutter (LF)	\$28.56	\$30.60	20.00	\$1,183.20
Drain Inlet (EA)		\$3,000.00	0.00	\$0.00
4" Sidewalk (SY)	\$13.56	\$36.90	0.00	\$0.00
Guardrail (LF)	\$4.88	\$49.09	0.00	\$0.00
End Anchorage (EA)		\$1,380.00	0.00	\$0.00
Subtotal				\$2,124.90

Grading Complete (5% of Rwy Items & Drng Total \$)	\$1,806.26
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Roadway Total	\$3,931.16
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Drainage	Removal Unit Cost	Installation Unit Cost	Amount	Total Cost
Trench Excavation (CY)		\$10.38	93.33	\$968.80
48" CMP (LF)	\$24.60		45.00	\$3,321.00
48" RCP		\$193.20	0.00	\$0.00
Class A Conc (CY)		\$892.19	27.85	\$24,842.97
Steel (lb)		\$1.42	2,529.50	\$3,581.77
Pipe Bedding (CY)		\$48.60	12.20	\$592.92
Trench Backfill (CY)		\$2.99	85.80	\$256.37
Trench Compaction (CY)		\$6.36	68.64	\$436.55

Drainage Total	\$34,000.39
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Signing and Marking	Installation Unit Cost	Amount	Total Cost
Permanent Striping (LF)	\$0.71	0.00	\$0.00

Signing and Marking Total	\$0.00
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Staging	Installation Unit Cost	Amount	Total Cost
Clearing and Grubbing (Acre)	\$10,260.00	0.10	\$1,026.00
Temporary Pavement			\$0.00
Temporary Drainage (Stream Diversion)	\$4,428.00	1.00	\$4,428.00

Staging Total	\$5,454.00
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Erosion Control	Installation Unit Cost	Amount	Total Cost
Fine Grading and Seeding (SY)	\$4.39	16.33	\$71.74
Temporary Grassing (AC)	\$855.60	0.00	\$0.00
Type C Silt Fence (LF)	\$4.24	180.00	\$762.48
Check Dam Type C Silt Fence (LF)	\$6.79	180.00	\$1,222.56
Erosion Control Mats (SY)	\$1.87	60.00	\$112.32
Landscape Mulch (SY)	\$3.58	60.00	\$214.56
Perm Grassing (AC)	\$1,402.20	0.00	\$0.00
Rip Rap Type 3 12" (SY)	\$60.98	18.67	\$1,138.37
Plastic Filter Fabric (SY)	\$5.72	18.67	\$106.85
4" Ditch Paving (SY)	\$54.65	0.00	\$0.00

Erosion Control Total	\$3,628.87
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Construction Cost Total	\$47,014.42
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Traffic Control (8% of Construction Total \$)	\$3,761.15
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Construction Cost Grand Total	\$50,775.57
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Utility Relocation	Removal Unit Cost	Installation Unit Cost	Amount	Total Cost
Electric				
Aerial	\$11.00	\$55.00		\$0.00
Buried	\$16.50	\$82.50	40.00	\$3,960.00
Wooden Pole	\$82.50	\$605.00		\$0.00
Phone				
Aerial	\$11.00	\$27.50		\$0.00
Buried	\$16.50	\$55.00	40.00	\$2,860.00
Wooden Pole	\$82.50	\$605.00		\$0.00
Cable				
Aerial	\$11.00	\$27.50		\$0.00
Buried	\$16.50	\$55.00	40.00	\$2,860.00
Wooden Pole	\$82.50	\$605.00		\$0.00
Gas				
4" main	\$16.50	\$66.00		\$0.00
Water				
8" main	\$16.50	\$93.50	40.00	\$4,400.00
Relocate Fire Hydrant (EA)		\$2,609.22		\$0.00
Sewer			0.00	
12" main	\$16.50	\$82.50	0.00	\$0.00
Utility Relocation Total				\$14,080.00

Right of Way (Sq Ft)	Cost/ Sq Ft	Sq Ft	Total Cost
Permanent Easement	\$4.00	1,200.00	\$4,800.00
ROW Total			\$4,800.00