

General Information		Map	
Project ID			
Street Name	Dogwood Trail		
Site Visit Date	5/22/13		
Road Classification	Minor arterial		
Project Notes			
Rural Typical Section			
Field Notes			
Design (Existing Site Features)			
Existing Road Laneage	2-12'		
Existing Shld Width (paved and grass) (feet)	1' - 2'		
Existing Side Slopes	1.5:1		
Existing Guardrail	None		
Depth fm Pavement to Top of Culvert (ft):	12		
Pipe Type and Size	2-120" CMP		
Pipe Condition (1-5) (1 is new)	4		
Condition Notes: Large down stream drop; home in down stream flood plain; bottom of pipe rusted through			
Pavement Type/Condition	Asphalt/Good		
Environmental Features			
Wetlands	None		
Ditches	Noted		
Utilities (Visual Inspection)			
Electric	Aerial		
Cable	Aerial		
Phone	Aerial		
Gas			
Water	Buried		
Sewer	Buried		
Other			
Proposed Design			
Roadway Section			
Culvert Size & Material	triple 7' x 7' box, concrete, 80' length		
Utility Relocations	Electric, cable, phone, water, sewer		
Guardrail Replacement	Need Guardrail due to side slopes and culvert installation		
Miscellaneous Features	Zone AE Floodplain and Floodway Analysis required		
Planning Cost Estimate			
Type	Notes	Total	
Design	Includes 10% Construction Cost and surveying needs	\$55,456	
Right of Way Cost	Assuming project extends 13,900 sf beyond ROW	\$55,600	
Utility Relocation Cost	Aerial and buried utilities	\$37,263	
Construction Cost	Assuming 1/5 acre clearing and grubbing	\$429,561	
Environmental Permits	Permits, Zone AE flood study	\$18,000	
Total Planning Estimate		\$595,879	



Photo 1:



Photo 2:

Dogwood Trail

Photo Date:

5/21/2013

Taken By:

David King

Page:

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Photo 3:



Photo 4:

Dogwood Trail

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	1,104.00	\$ 6,188.29
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	600.00	\$ 32,385.60
End Anchorage (EA)		\$ 1,380.00	4.00	\$ 5,520.00
Subtotal				\$ 44,093.89

Grading Complete (5% of Rwy Items & Drng Total \$) \$ 17,795.14

Roadway Total \$ 61,889.03

Drainage	Removal Unit Cost	Installation Unit Cost	Amount	Total Cost
Trench Excavation (CY)		\$ 10.38	2,112.59	\$ 21,928.71
120" CMP (LF)	\$ 90.00		160.00	\$ 43,200.00
120" RCP		\$ 142.52	0.00	\$ -
Class A Conc (CY)		\$ 892.19	212.60	\$ 189,679.17
Steel (lb)		\$ 1.42	23,893.00	\$ 33,832.49
Pipe Bedding (CY)		\$ 48.60	69.90	\$ 3,397.14
Trench Backfill (CY)		\$ 2.99	2,448.17	\$ 7,315.14
Trench Compaction (CY)		\$ 6.36	1,958.54	\$ 12,456.31

Drainage Total \$311,808.96

Signing and Marking	Installation Unit Cost	Amount	Total Cost
Permanent Striping (LF)	\$ 0.71	92.00	\$ 65.14

Signing and Marking Total \$ 65.14

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	0.00	\$ -
Temporary Drainage (Stream Diversion)	\$ 4,428.00	2.00	\$ 8,856.00

Staging Total \$ 11,038.27

Erosion Control	Installation Unit Cost	Amount	Total Cost
Fine Grading and Seeding (SY)	\$ 4.39	143.11	\$ 628.54
Temporary Grassing (AC)	\$ 855.60	0.00	\$ -
Type C Silt Fence (LF)	\$ 4.24	640.00	\$ 2,711.04
Check Dam Type C Silt Fence (LF)	\$ 6.79	640.00	\$ 4,346.88
Erosion Control Mats (SY)	\$ 1.87	213.33	\$ 399.36
Landscape Mulch (SY)	\$ 3.58	213.33	\$ 762.88
Perm Grassing (AC)	\$ 1,402.20	0.00	\$ -
Rip Rap Type 3 12" (SY)	\$ 60.98	61.33	\$ 3,740.35
Plastic Filter Fabric (SY)	\$ 5.72	61.33	\$ 351.07
4" Ditch Paving (SY)	\$ 54.65	0.00	\$ -

Erosion Control Total \$ 12,940.13

Construction Cost Total \$397,741.53

Traffic Control (8% of Construction Total \$) \$ 31,819.32

Construction Cost Grand Total \$429,560.85

Utility Relocation	Removal Unit Cost	Installation Unit Cost	Amount	Total Cost
Electric				
Aerial	\$ 11.00	\$ 55.00	100.00	\$ 6,600.00
Buried	\$ 16.50	\$ 82.50	0.00	\$ -
Wooden Pole	\$ 82.50	\$ 605.00	3.00	\$ 2,062.50
Phone				
Aerial	\$ 11.00	\$ 27.50	100.00	\$ 3,850.00
Buried	\$ 16.50	\$ 55.00	0.00	\$ -
Wooden Pole	\$ 82.50	\$ 605.00		\$ -
Cable				
Aerial	\$ 11.00	\$ 27.50	100.00	\$ 3,850.00
Buried	\$ 16.50	\$ 55.00	0.00	\$ -
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	100.00	\$ 9,900.00
Utility Relocation Total				\$ 37,262.50

Right of Way (Sq Ft)	Cost/ Sq Ft	Sq Ft	Total Cost
Permanent Easement	\$ 4.00	13,900.00	\$ 55,600.00
ROW Total			\$ 55,600.00