

General Information		Map	
Project ID			
Street Name	547 Kenwood Road		
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)	None		
Existing Side Slopes	1:1		
Existing Guardrail	None		
Depth fm Pavement to Top of Culvert (ft):	2		
Pipe Type and Size	96" CMP		
Pipe Condition (1-5) (1 is new)	3		
Condition Notes: Rusted severely on upstream and downstream ends; 3' + drop on downstream end, interior structure ok, debris/maintenance needed			
Pavement Type/Condition	Asphalt/Good		
Environmental Features		Stage Construction Options	
Wetlands	None	Close Location to Traffic	X
Ditches	Noted	Maintain One Lane - No Temp Pavement	
		Maintain One Lane - Temp Pavement	
		Stage Construction Notes: 35 mph posted	
Utilities (Visual Inspection)			
Electric	Aerial		
Cable	Aerial		
Phone	Aerial		
Gas			
Water	Buried		
Sewer			
Other			
Proposed Design			
Roadway Section			
Culvert Size & Material	8' x 5' box, concrete, 80' length		
Utility Relocations			
Guardrail Replacement	Guardrail due to culvert and side slopes		
Miscellaneous Features			
Planning Cost Estimate			
Type	Notes	Total	
Design	Includes 10% Construction Cost and surveying needs	\$22,646	
Right of Way Cost	Assuming project extends 7,500 sf beyond ROW	\$15,000	
Utility Relocation Cost	Buried utilities	\$5,500	
Construction Cost	Assuming 1/10 acre clearing and grubbing	\$176,464	
Environmental Permits	Assuming minimal environmental permitting required	\$10,000	
Total Planning Estimate		\$229,611	



Photo 1:



Photo 2:

Kenwood Road

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	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	500.00	\$ 26,988.00
End Anchorage (EA)		\$ 1,380.00	2.00	\$ 2,760.00
Subtotal				\$ 32,169.50

Grading Complete (5% of Rwy Items & Drng Total \$) \$ 7,142.00

Roadway Total \$ 39,311.51

Drainage	Removal Unit Cost	Installation Unit Cost	Amount	Total Cost
Trench Excavation (CY)		\$ 10.38	586.67	\$ 6,089.60
96" CMP (LF)	\$ 72.00		80.00	\$ 17,280.00
96" RCP		\$ 142.52	0.00	\$ -
Class A Conc (CY)		\$ 892.19	74.23	\$ 66,230.68
Steel (lb)		\$ 1.42	9,406.00	\$ 13,318.90
Pipe Bedding (CY)		\$ 48.60	54.70	\$ 2,658.42
Trench Backfill (CY)		\$ 2.99	630.63	\$ 1,884.33
Trench Compaction (CY)		\$ 6.36	504.51	\$ 3,208.66

Drainage Total \$ 110,670.59

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	0.10	\$ 1,026.00
Temporary Pavement			\$ -
Temporary Drainage (Stream Diversion)	\$ 4,428.00	1.00	\$ 4,428.00

Staging Total \$ 5,555.95

Erosion Control	Installation Unit Cost	Amount	Total Cost
Fine Grading and Seeding (SY)	\$ 4.39	112.00	\$ 491.90
Temporary Grassing (AC)	\$ 855.60	0.00	\$ -
Type C Silt Fence (LF)	\$ 4.24	320.00	\$ 1,355.52
Check Dam Type C Silt Fence (LF)	\$ 6.79	320.00	\$ 2,173.44
Erosion Control Mats (SY)	\$ 1.87	106.67	\$ 199.68
Landscape Mulch (SY)	\$ 3.58	106.67	\$ 381.44
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 \$ 7,803.97

Construction Cost Total \$ 163,393.00

Traffic Control (8% of Construction Total \$) \$ 13,071.44

Construction Cost Grand Total \$ 176,464.44

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	0.00	\$ -
Wooden Pole	\$ 82.50	\$ 605.00		\$ -
Cable				
Aerial	\$ 11.00	\$ 27.50		\$ -
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	50.00	\$ 5,500.00
Relocate Fire Hydrant (EA)		\$ 2,609.22		\$ -
Sewer			0.00	\$ -
12" main	\$ 16.50	\$ 82.50	0.00	\$ -
Utility Relocation Total				\$ 5,500.00

Right of Way (Sq Ft)	Cost/ Sq Ft	Sq Ft	Total Cost
Permanent Easement	\$ 4.00	3,750.00	\$ 15,000.00
ROW Total			\$ 15,000.00