

General Information		Map	
<b>Project ID</b>			
<b>Street Name</b>	<b>266 Callaway Rd.</b>		
<b>Site Visit Date</b>	5/21/13		
<b>Road Classification</b>	Minor road		
<b>Project Notes</b>			
Rural Typical Section			
<b>Field Notes</b>			
<b>Design (Existing Site Features)</b>			
<b>Existing Road Laneage</b>	2 - 12'		
<b>Existing Shld Width (paved and grass) (feet)</b>	2' (Grass)		
<b>Existing Side Slopes</b>	2:1		
<b>Existing Guardrail</b>	None		
<b>Depth fm Pavement to Top of Culvert (ft):</b>	Assumed 3'		
<b>Pipe Type and Size</b>	60" CMP (egg)		
<b>Pipe Condition (1-5) (1 is new)</b>	4		
Condition Notes:			
<b>Pavement Type/Condition</b>	Asphalt/Good		
<b>Environmental Features</b>			
<b>Wetlands</b>	None		
<b>Ditches</b>	Noted		
<b>Utilities (Visual Inspection)</b>			
<b>Electric</b>	Aerial		
<b>Cable</b>	None		
<b>Phone</b>	Aerial		
<b>Gas</b>	None		
<b>Water</b>	Buried		
<b>Sewer</b>	None		
<b>Other</b>			
<b>Stage Construction Options</b>			
<b>Close Location to Traffic</b>		X	
<b>Maintain One Lane - No Temp Pavement</b>			
<b>Maintain One Lane - Temp Pavement</b>			
Stage Construction Notes:			
45 mph posted speed			
<b>Proposed Design</b>			
<b>Roadway Section</b>			
<b>Culvert Size &amp; Material</b>	triple 10' x 4' box, concrete, 80' length. Cost of removing elliptical CMP assumed to be equal to circular CMP		
<b>Utility Relocations</b>	Water		
<b>Guardrail Replacement</b>	Need to install guardrail due to side slopes and culvert installation		
<b>Miscellaneous Features</b>	Zone A, Floodplain Analysis Required		
<b>Planning Cost Estimate</b>			
<b>Type</b>	<b>Notes</b>	<b>Total</b>	
<b>Design</b>	Includes 10% design cost and surveying needs	\$53,724	
<b>Right of Way Cost</b>	Assuming project extends 11,000 sf beyond ROW	\$44,000	
<b>Utility Relocation Cost</b>	Buried water main	\$8,250	
<b>Construction Cost</b>	Assuming 1/10 acre clearing and grubbing needed	\$412,243	
<b>Environmental Permits</b>	Includes Zone A Floodplain analysis	\$15,000	
<b>Total Planning Estimate</b>		<b>\$533,218</b>	





**Photo 1:**



**Photo 2:**

Callaway Road

**Photo Date:**

5/21/2013

**Taken By:**

David King

**Page:**

**1**



**Photo 3:**

Callaway Road



**Photo 4:**

**Photo Date:**

9/26/2012

**Taken By:**

Tony Hicks

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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	864.00	\$ 4,843.01
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	2.00	\$ 2,760.00
<b>Subtotal</b>				<b>\$ 39,988.61</b>

Grading Complete (5% of Rwy Items & Drng Total \$) \$ 17,173.56

**Roadway Total \$ 57,162.17**

Drainage	Removal Unit Cost	Installation Unit Cost	Amount	Total Cost
Trench Excavation (CY)		\$ 10.38	853.33	\$ 8,857.60
60" CMP (LF)	\$ 24.60		80.00	\$ 5,904.00
84" RCP		\$ 142.52	0.00	\$ -
Class A Conc (CY)		\$ 892.19	262.44	\$ 234,145.82
Steel (lb)		\$ 1.42	30,224.00	\$ 42,797.18
Pipe Bedding (CY)		\$ 48.60	97.20	\$ 4,723.92
Trench Backfill (CY)		\$ 2.99	873.47	\$ 2,609.92
Trench Compaction (CY)		\$ 6.36	698.77	\$ 4,444.20

**Drainage Total \$ 303,482.64**

Signing and Marking	Installation Unit Cost	Amount	Total Cost
Permanent Striping (LF)	\$ 0.71	0.00	\$ -

**Signing and Marking Total \$ -**

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 \$ 5,454.00**

Erosion Control	Installation Unit Cost	Amount	Total Cost
Fine Grading and Seeding (SY)	\$ 4.39	224.00	\$ 983.81
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	96.00	\$ 5,854.46
Plastic Filter Fabric (SY)	\$ 5.72	96.00	\$ 549.50
4" Ditch Paving (SY)	\$ 54.65	0.00	\$ -

**Erosion Control Total \$ 15,607.94**

**Construction Cost Total \$ 381,706.75**

Traffic Control (8% of Construction Total \$) \$ 30,536.54

**Construction Cost Grand Total \$ 412,243.29**

Utility Relocation	Removal Unit Cost	Installation Unit Cost	Amount	Total Cost
Electric				
Phone				
Cable				
Gas				
4" main	\$ 16.50	\$ 66.00		\$ -
Water				
8" main	\$ 16.50	\$ 93.50	75.00	\$ 8,250.00
Relocate Fire Hydrant (EA)		\$ 2,609.22		\$ -
<b>Utility Relocation Total</b>				<b>\$ 8,250.00</b>

Right of Way (Sq Ft)	Cost/ Sq Ft	Sq Ft	Total Cost
Permanent Easement	\$ 4.00	11,000.00	\$ 44,000.00
<b>ROW Total</b>			<b>\$ 44,000.00</b>