

General Information		Map	
Project ID			
Street Name	Chappell Rd.		
Site Visit Date	5/21/13		
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):	6'		
Pipe Type and Size	1-72" CMP		
Pipe Condition (1-5) (1 is new)	3		
Condition Notes:			
Pavement Type/Condition	Asphalt/Good		
Environmental Features			
Wetlands	Upstream (?)		
Ditches	Along road		
Utilities (Visual Inspection)			
Electric	Aerial		
Cable	Buried		
Phone	Buried		
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		
Utility Relocations	Cable, telephone, water		
Guardrail Replacement	Proposed Guardrail Installation due to proposed culvert(s) and side slopes		
Miscellaneous Features			
Planning Cost Estimate			
Type	Notes	Total	
Design	Includes 10% Construction Cost and surveying needs	\$28,964	
Right of Way Cost	Assuming project extends 16,250 sf beyond ROW	\$32,500	
Utility Relocation Cost	Buried utilities	\$25,300	
Construction Cost	Assuming 1/10 acre clearing and grubbing	\$239,635	
Environmental Permits	Permits, Zone A Floodplain Analysis	\$10,000	
Total Planning Estimate		\$336,399	



Photo 1:

364 Chappell Road



Photo 2:

Photo Date:

5/21/2013

Taken By:

David King

Page:

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364 Chappell Road



Photo 3:



Photo 4:

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	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 \$)				\$ 10,164.98
Roadway Total				\$ 49,081.49
Drainage	Removal Unit Cost	Installation Unit Cost	Amount	Total Cost
Trench Excavation (CY)		\$ 10.38	606.67	\$ 6,297.20
72" CMP (LF)	\$ 63.00		70.00	\$ 13,230.00
72" RCP (LF)		\$ 390.00	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	662.33	\$ 1,979.05
Trench Compaction (CY)		\$ 6.36	529.87	\$ 3,369.95
Drainage Total				\$ 164,383.16
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 Gravel Road (SY)		\$ 15.42	977.78	\$ 15,077.33
Temporary Drainage (Stream Diversion)		\$ 4,428.00	1.00	\$ 4,428.00
Staging Total				\$ 20,633.29
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	280.00	\$ 1,186.08
Check Dam Type C Silt Fence (LF)		\$ 6.79	280.00	\$ 1,901.76
Erosion Control Mats (SY)		\$ 1.87	93.33	\$ 174.72
Landscape Mulch (SY)		\$ 3.58	93.33	\$ 333.76
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				\$ 7,202.37
Construction Cost Total				\$ 241,351.28
Traffic Control (8% of Construction Total \$)				\$ 19,308.10
Construction Cost Grand Total				\$ 260,659.38
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	16,250.00	\$ 65,000.00	
ROW Total			\$ 65,000.00	