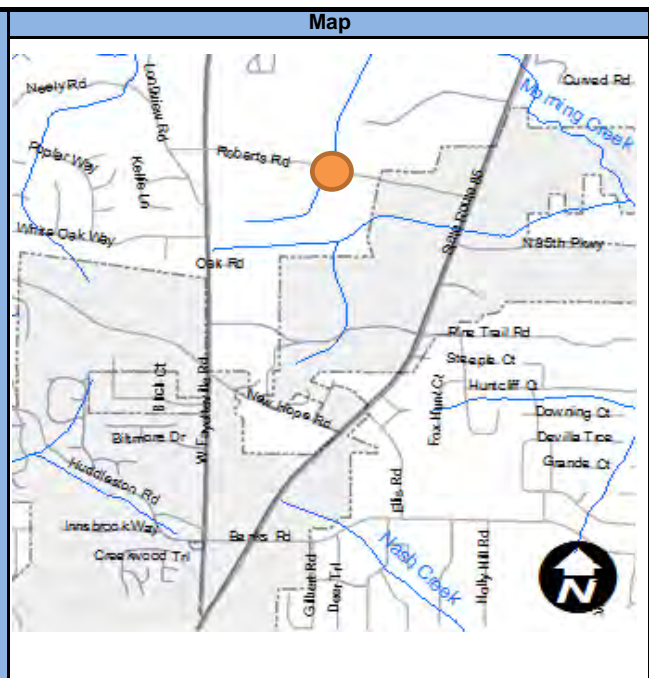


General Information	
Project ID	
Street Name	199 Roberts Road
Site Visit Date	5/21/13
Road Classification	County Local
Project Notes	
Local road with sub standard horizontal and vertical alignments	
Field Notes	
Design (Existing Site Features)	
Existing Road Laneage	2-10' (dirt/gravel)
Existing Shld Width (paved and grass) (feet)	None
Existing Side Slopes	flat
Existing Guardrail	None
Depth fm Pavement to Top of Culvert (ft):	None
Pipe Type and Size	None
Pipe Condition (1-5) (1 is new)	n/a
Condition Notes:	
Pavement Type/Condition	gravel dirt/ poor
Environmental Features	
Wetlands	Noted
Ditches	None
Utilities (Visual Inspection)	
Electric	Aerial
Cable	Aerial
Phone	Aerial
Gas	
Water	Buried
Sewer	
Other	



Stage Construction Options	
Close Location to Traffic	
Maintain One Lane - No Temp Pavement	X
Maintain One Lane - Temp Pavement	
Stage Construction Notes:	

Proposed Design	
Roadway Section	
Culvert Size & Material	7'x4' box, concrete, 85' length
Utility Relocations	Two utility poles. Aerial electric, cable, phone. Buried water main
Guardrail Replacement	
Miscellaneous Features	

Planning Cost Estimate		
Type	Notes	Total
Design	Includes 10% Construction Cost and surveying needs	\$17,381
Right of Way Cost	Assuming project extends 4,000 sf beyond ROW	\$16,000
Utility Relocation Cost	Aerial utilities, poles, and buried water main	\$26,675
Construction Cost	Assuming 1/10 acre clearing and grubbing	\$123,805
Environmental Permits	Assuming minimal environmental permitting required	\$10,000

Total Planning Estimate	\$193,861
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Photo 1:



Photo 2:

199 Roberts Road

Photo Date:

5/21/2013

Taken By:

David King

Page:

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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	0.00	\$ -
Gravel Road (SY)		\$ 15.42	83.11	\$ 1,281.57
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	0.00	\$ -
End Anchorage (EA)		\$ 1,380.00	0.00	\$ -
Subtotal				\$ 1,281.57
Grading Complete (5% of Rwy Items & Drng Total \$)				\$ 4,773.36
Roadway Total				\$ 6,054.94
Drainage	Removal Unit Cost	Installation Unit Cost	Amount	Total Cost
Trench Excavation (CY)		\$ 10.38	279.08	\$ 2,896.89
60" CMP (LF)	\$ 24.60		85.00	\$ 6,273.00
60" RCP		\$ 259.20	0.00	\$ -
Class A Conc (CY)		\$ 892.19	77.53	\$ 69,171.34
Steel (lb)		\$ 1.42	8,370.00	\$ 11,851.92
Pipe Bedding (CY)		\$ 48.60	29.00	\$ 1,409.40
Trench Backfill (CY)		\$ 2.99	319.85	\$ 955.72
Trench Compaction (CY)		\$ 6.36	255.88	\$ 1,627.42
Drainage Total				\$ 94,185.68
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	0.20	\$ 2,052.00
Temporary Pavement				\$ -
Temporary Drainage (Stream Diversion)		\$ 4,428.00	1.00	\$ 4,428.00
Staging Total				\$ 6,480.00
Erosion Control		Installation Unit Cost	Amount	Total Cost
Fine Grading and Seeding (SY)		\$ 4.39	119.00	\$ 522.65
Temporary Grassing (AC)		\$ 855.60	0.00	\$ -
Type C Silt Fence (LF)		\$ 4.24	340.00	\$ 1,440.24
Check Dam Type C Silt Fence (LF)		\$ 6.79	340.00	\$ 2,309.28
Erosion Control Mats (SY)		\$ 1.87	113.33	\$ 212.16
Landscape Mulch (SY)		\$ 3.58	113.33	\$ 405.28
Perm Grassing (AC)		\$ 1,402.20	0.00	\$ -
Rip Rap Type 3 12" (SY)		\$ 60.98	45.33	\$ 2,764.61
Plastic Filter Fabric (SY)		\$ 5.72	45.33	\$ 259.49
4" Ditch Paving (SY)		\$ 54.65	0.00	\$ -
Erosion Control Total				\$ 7,913.70
Construction Cost Total				\$ 114,634.32
Traffic Control (8% of Construction Total \$)				\$ 9,170.75
Construction Cost Grand Total				\$ 123,805.07
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	2.00	\$ 1,375.00
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	0.00	\$ -
Utility Relocation Total				\$ 26,675.00
Right of Way (Sq Ft)		Cost/ Sq Ft	Sq Ft	Total Cost
Permanent Easement		\$ 4.00	4,000.00	\$ 16,000.00
ROW Total				\$ 16,000.00