

General Information		Map	
Project ID			
Street Name	Avalon Dr		
Site Visit Date	6/11/2013		
Road Classification	Internal Local		
Project Notes			
Rural typical section			
Field Notes			
Design (Existing Site Features)			
Existing Road Laneage	2 - 12'		
Existing Shld Width (paved and grass) (feet)	4' (Grass)		
Existing Side Slopes	flat		
Existing Guardrail	None		
Depth fm Pavement to Top of Culvert (ft):	\$ 4.00		
Pipe Type and Size	30", 300' CMP		
Pipe Condition (1-5) (1 is new)	\$ 3.00		
Pavement Type/Condition	Asphalt/Good		
Environmental Features		<b>Stage Construction Options</b>	
Wetlands	None	Close Location to Traffic	X
Ditches	X	Maintain One Lane - No Temp Pavement	
		Maintain One Lane - Temp Pavement	
		Stage Construction Notes:	
Utilities (Visual Inspection)			
Electric	Aerial		
Cable	Aerial		
Phone	Aerial		
Gas	None		
Water	X		
Sewer	None		
Other			
Proposed Design			
Roadway Section	Typical		
Culvert Size & Material	48" round RCP, 300' length		
Utility Relocations	Water main		
Guardrail Replacement			
Miscellaneous Features			
Planning Cost Estimate			
Type	Notes	Total	
Design	Includes 10% Construction Cost and surveying needs	\$17,783	
Right of Way Cost	Assuming 2,000 sf outside of ROW	\$8,000	
Utility Relocation Cost	50 ft of water main	\$5,500	
Construction Cost	Applying 1/10 acre clearing and grubbing cost	\$127,834	
Environmental Permits	Assuming minimal environmental permitting required	\$10,000	
<b>Total Planning Estimate</b>		<b>\$169,118</b>	



**Photo 1:**



**Photo 2:**

Avalon Dr

**Photo Date:**

7/2/2013

**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	\$ 600.00	\$ 3,363.20
Curb and Gutter (LF)	\$ 28.56	30.60	\$ -	\$ -
Drain Inlet (EA)		3,000.00	\$ -	\$ -
4" Sidewalk (SY)	\$ 13.56	36.90	\$ -	\$ -
Guardrail (LF)	\$ 4.88	49.09	\$ -	\$ -
End Anchorage (EA)		1,380.00	\$ -	\$ -
Subtotal				\$ 3,363.20
<b>Grading Complete (5% of Rwy Items &amp; Drng Total \$)</b>				<b>\$ 4,637.64</b>
<b>Roadway Total</b>				<b>\$ 8,000.84</b>
Drainage	Removal Unit Cost	Installation Unit Cost	Amount	Total Cost
Trench Excavation (CY)		10.38	\$ 600.00	\$ 6,228.00
30" CMP (LF)	\$ 19.62		\$ 300.00	\$ 5,886.00
48" RCP (LF)		193.20	\$ 300.00	\$ 57,960.00
Class A Conc (CY)		892.19	\$ 13.70	\$ 12,222.98
Steel (lb)		1.42	\$ -	\$ -
Pipe Bedding (CY)		48.60	\$ 66.67	\$ 3,240.00
Trench Backfill (CY)		2.99	\$ 477.04	\$ 1,425.40
Trench Compaction (CY)		6.36	\$ 381.63	\$ 2,427.18
<b>Drainage Total</b>				<b>\$ 89,389.55</b>
Signing and Marking		Installation Unit Cost	Amount	Total Cost
Permanent Striping (LF)		0.71	\$ -	\$ -
<b>Signing and Marking Total</b>				<b>\$ -</b>
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
<b>Staging Total</b>				<b>\$ 5,454.00</b>
Erosion Control		Installation Unit Cost	Amount	Total Cost
Fine Grading and Seeding (SY)		4.39	\$ 766.67	\$ 3,367.20
Temporary Grassing (AC)		855.60	\$ -	\$ -
Type C Silt Fence (LF)		4.24	\$ 600.00	\$ 2,541.60
Check Dam Type C Silt Fence (LF)		6.79	\$ 600.00	\$ 4,075.20
Erosion Control Mats (SY)		1.87	\$ 200.00	\$ 374.40
Landscape Mulch (SY)		3.58	\$ 200.00	\$ 715.20
Perm Grassing (AC)		1,402.20	\$ -	\$ -
Rip Rap Type 3 12" (SY)		60.98	\$ 66.67	\$ 4,065.60
Plastic Filter Fabric (SY)		5.72	\$ 66.67	\$ 381.60
4" Ditch Paving (SY)		54.65	\$ -	\$ -
<b>Erosion Control Total</b>				<b>\$ 15,520.80</b>
<b>Construction Cost Total</b>				<b>\$ 118,365.19</b>
<b>Traffic Control (8% of Construction Total \$)</b>				<b>\$ 9,469.22</b>
<b>Construction Cost Grand Total</b>				<b>\$ 127,834.41</b>
Utility Relocation	Removal Unit Cost	Installation Unit Cost	Amount	Total Cost
Electric				
Aerial	\$ 11.00	55.00	\$ -	\$ -
Buried	\$ 16.50	82.50	\$ -	\$ -
Wooden Pole	\$ 82.50	605.00	\$ -	\$ -
Phone				
Aerial	\$ 11.00	27.50	\$ -	\$ -
Buried	\$ 16.50	55.00	\$ -	\$ -
Wooden Pole	\$ 82.50	605.00	\$ -	\$ -
Cable				
Aerial	\$ 11.00	27.50	\$ -	\$ -
Buried	\$ 16.50	55.00	\$ -	\$ -
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				
12" main	\$ 16.50	82.50	\$ -	\$ -
Utility Relocation Total				\$ 5,500.00
Right of Way (Sq Ft)	Cost/ Sq Ft	Sq Ft	Total Cost	
Permanent Easement		4.00	\$ 2,000.00	
ROW Total			\$ 8,000.00	