

General Information		Map	
<b>Project ID</b>			
<b>Street Name</b>	<b>120 Merced Trail</b>		
<b>Site Visit Date</b>	5/22/13		
<b>Road Classification</b>	Internal Local		
<b>Project Notes</b>			
Urban typical with valley gutter; subdivision street			
<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>	4'		
<b>Existing Side Slopes</b>	flat		
<b>Existing Guardrail</b>	none		
<b>Depth fm Pavement to Top of Culvert (ft):</b>	5		
<b>Pipe Type and Size</b> (ellip. CMP)	2-48"x72",55'		
<b>Pipe Condition (1-5) (1 is new)</b>	5		
Condition Notes: Both up to 25% blocked, structurally unsound, sag in top of pipe, debris/rip rap in pipe			
<b>Pavement Type/Condition</b>	Asphalt/Good		
<b>Environmental Features</b>			
<b>Wetlands</b>	None		
<b>Ditches</b>	None		
<b>Utilities (Visual Inspection)</b>			
<b>Electric</b>	Buried		
<b>Cable</b>	Buried		
<b>Phone</b>	Buried		
<b>Gas</b>			
<b>Water</b>	Buried		
<b>Sewer</b>			
<b>Other</b>			
<b>Stage Construction Options</b>			
<b>Close Location to Traffic</b>			
<b>Maintain One Lane - No Temp Pavement</b>		<b>Maintain One Lane - Temp Pavement</b>	X
Stage Construction Notes:			
<b>Proposed Design</b>			
<b>Roadway Section</b>			
<b>Culvert Size &amp; Material</b>	dbl 8' x 4' box, concrete, 60' length. Cost of elliptical pipe removal assumed to equal to removal of round 60" CMP.		
<b>Utility Relocations</b>	Electric, cable, phone, water		
<b>Guardrail Replacement</b>			
<b>Miscellaneous Features</b>			
<b>Planning Cost Estimate</b>			
<b>Type</b>	<b>Notes</b>	<b>Total</b>	
<b>Design</b>	Includes 10% Construction Cost and surveying needs	\$21,679	
<b>Right of Way Cost</b>	Assuming project extends 2,000 sf beyond ROW	\$8,000	
<b>Utility Relocation Cost</b>	Buried utilities	\$17,600	
<b>Construction Cost</b>	Assuming 1/5 acre clearing and grubbing	\$166,790	
<b>Environmental Permits</b>	Assuming minimal environmental permitting required	\$10,000	
<b>Total Planning Estimate</b>		<b>\$224,070</b>	



**Photo 1:**



**Photo 2:**

**Mercedes Trail**

**Photo Date:**

5/21/2013

**Taken By:**

David King

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**Photo 3:**



**Photo 4:**

Mercedes Trail

**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	36.00	\$ 2,129.76
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	\$ -
<b>Subtotal</b>				<b>\$ 4,551.26</b>
<b>Grading Complete (5% of Rwy Items &amp; Drng Total \$)</b>				<b>\$ 6,723.90</b>
<b>Roadway Total</b>				<b>\$ 11,275.17</b>
Drainage	Removal Unit Cost	Installation Unit Cost	Amount	Total Cost
Trench Excavation (CY)		\$ 10.38	400.00	\$ 4,152.00
60" CMP (LF)	\$ 24.60		110.00	\$ 8,118.00
60" RCP		\$ 259.20	0.00	\$ -
Class A Conc (CY)		\$ 892.19	108.16	\$ 96,499.05
Steel (lb)		\$ 1.42	11,182.00	\$ 15,833.71
Pipe Bedding (CY)		\$ 48.60	41.30	\$ 2,007.18
Trench Backfill (CY)		\$ 2.99	410.70	\$ 1,227.17
Trench Compaction (CY)		\$ 6.36	328.56	\$ 2,089.64
<b>Drainage Total</b>				<b>\$ 129,926.76</b>
Signing and Marking		Installation Unit Cost	Amount	Total Cost
Permanent Striping (LF)		\$ 0.71	72.00	\$ 50.98
<b>Signing and Marking Total</b>				<b>\$ 50.98</b>
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
<b>Staging Total</b>				<b>\$ 6,581.95</b>
Erosion Control		Installation Unit Cost	Amount	Total Cost
Fine Grading and Seeding (SY)		\$ 4.39	72.00	\$ 316.22
Temporary Grassing (AC)		\$ 855.60	0.00	\$ -
Type C Silt Fence (LF)		\$ 4.24	240.00	\$ 1,016.64
Check Dam Type C Silt Fence (LF)		\$ 6.79	240.00	\$ 1,630.08
Erosion Control Mats (SY)		\$ 1.87	80.00	\$ 149.76
Landscape Mulch (SY)		\$ 3.58	80.00	\$ 286.08
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	\$ -
<b>Erosion Control Total</b>				<b>\$ 6,600.77</b>
<b>Construction Cost Total</b>				<b>\$ 154,435.62</b>
<b>Traffic Control (8% of Construction Total \$)</b>				<b>\$ 12,354.85</b>
<b>Construction Cost Grand Total</b>				<b>\$ 166,790.47</b>
Utility Relocation	Removal Unit Cost	Installation Unit Cost	Amount	Total Cost
Electric				
Aerial	\$ 11.00	\$ 55.00		\$ -
Buried	\$ 16.50	\$ 82.50	50.00	\$ 4,950.00
Wooden Pole	\$ 82.50	\$ 605.00		\$ -
Phone				
Aerial	\$ 11.00	\$ 27.50		\$ -
Buried	\$ 16.50	\$ 55.00	50.00	\$ 3,575.00
Wooden Pole	\$ 82.50	\$ 605.00		\$ -
Cable				
Aerial	\$ 11.00	\$ 27.50		\$ -
Buried	\$ 16.50	\$ 55.00	50.00	\$ 3,575.00
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	\$ -
<b>Utility Relocation Total</b>				<b>\$ 17,600.00</b>
Right of Way (Sq Ft)	Cost/ Sq Ft	Sq Ft	Total Cost	
Permanent Easement	\$ 4.00	2,000.00	\$ 8,000.00	
<b>ROW Total</b>			<b>\$ 8,000.00</b>	