

| General Information | | Map | |
|--|--|------------------|--|
| Project ID | | | |
| Street Name | Silver Leaf Drive | | |
| Site Visit Date | 5/21/13 | | |
| Road Classification | Internal Local | | |
| Project Notes | | | |
| Urban typical w/ valley gutter. Point is close to FEMA Zone A flood boundary. Adding cost of Zone A flood study given limited location information | | | |
| Field Notes | | | |
| Design (Existing Site Features) | | | |
| Existing Road Laneage | 2-12' | | |
| Existing Shld Width (paved and grass) (feet) | 10' Grass | | |
| Existing Side Slopes | 4:1 | | |
| Existing Guardrail | None | | |
| Depth fm Pavement to Top of Culvert (ft): | 5 | | |
| Pipe Type and Size | 1-54" CMP | | |
| Pipe Condition (1-5) (1 is new) | 4 | | |
| Condition Notes: | | | |
| Pavement Type/Condition | Good | | |
| Environmental Features | | | |
| Wetlands | X (downstream) | | |
| Ditches | None | | |
| Utilities (Visual Inspection) | | | |
| Electric | Aerial | | |
| Cable | Buried | | |
| Phone | Buried | | |
| Gas | Buried | | |
| Water | Buried | | |
| Sewer | | | |
| Other | | | |
| Stage Construction Options | | | |
| Close Location to Traffic | | X | |
| Maintain One Lane - No Temp Pavement | | | |
| Maintain One Lane - Temp Pavement | | | |
| Stage Construction Notes: Replace inlet on each side | | | |
| Proposed Design | | | |
| Roadway Section | | | |
| Culvert Size & Material | dbl 4' x 3' box, concrete, 140' | | |
| Utility Relocations | Phone, cable, gas, water | | |
| Guardrail Replacement | | | |
| Miscellaneous Features | | | |
| Planning Cost Estimate | | | |
| Type | Notes | Total | |
| Design | Includes 10% Construction Cost and surveying needs | \$29,259 | |
| Right of Way Cost | Assuming project extends 4,800 sf beyond ROW | \$19,200 | |
| Utility Relocation Cost | Buried utilities | \$16,775 | |
| Construction Cost | Assuming 1/10 acre clearing and grubbing | \$167,593 | |
| Environmental Permits | Permitting, Zone A flood study | \$15,000 | |
| Total Planning Estimate | | \$247,827 | |



Photo 1:



Photo 2:

175 Silver Leaf Drive

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 | 240.00 | \$ 1,345.28 |
| Curb and Gutter (LF) | \$ 28.56 | \$ 30.60 | 20.00 | \$ 1,183.20 |
| Drain Inlet (EA) | | \$ 3,000.00 | 2.00 | \$ 6,000.00 |
| 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 | | | | \$ 8,528.48 |
| Grading Complete (5% of Rwy Items & Drng Total \$) | | | | \$ 6,675.57 |
| Roadway Total | | | | \$ 15,204.05 |
| Drainage | Removal Unit Cost | Installation Unit Cost | Amount | Total Cost |
| Trench Excavation (CY) | | \$ 10.38 | 544.44 | \$ 5,651.33 |
| 54" CMP (LF) | \$ 24.60 | | 140.00 | \$ 10,332.00 |
| 54" RCP | | \$ 217.35 | 0.00 | \$ - |
| Class A Conc (CY) | | \$ 892.19 | 92.81 | \$ 82,803.97 |
| Steel (lb) | | \$ 1.42 | 13,265.00 | \$ 18,783.24 |
| Pipe Bedding (CY) | | \$ 48.60 | 52.60 | \$ 2,556.36 |
| Trench Backfill (CY) | | \$ 2.99 | 601.29 | \$ 1,796.65 |
| Trench Compaction (CY) | | \$ 6.36 | 481.03 | \$ 3,059.36 |
| Drainage Total | | | | \$ 124,982.91 |
| 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 | 128.89 | \$ 566.08 |
| Temporary Grassing (AC) | | \$ 855.60 | 0.00 | \$ - |
| Type C Silt Fence (LF) | | \$ 4.24 | 560.00 | \$ 2,372.16 |
| Check Dam Type C Silt Fence (LF) | | \$ 6.79 | 560.00 | \$ 3,803.52 |
| Erosion Control Mats (SY) | | \$ 1.87 | 186.67 | \$ 349.44 |
| Landscape Mulch (SY) | | \$ 3.58 | 186.67 | \$ 667.52 |
| Perm Grassing (AC) | | \$ 1,402.20 | 0.00 | \$ - |
| Rip Rap Type 3 12" (SY) | | \$ 60.98 | 26.67 | \$ 1,626.24 |
| Plastic Filter Fabric (SY) | | \$ 5.72 | 26.67 | \$ 152.64 |
| 4" Ditch Paving (SY) | | \$ 54.65 | 0.00 | \$ - |
| Erosion Control Total | | | | \$ 9,537.60 |
| Construction Cost Total | | | | \$ 155,178.56 |
| Traffic Control (8% of Construction Total \$) | | | | \$ 12,414.28 |
| Construction Cost Grand Total | | | | \$ 167,592.85 |
| 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 | 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 | 50.00 | \$ 4,125.00 |
| 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 | \$ - |
| Utility Relocation Total | | | | \$ 16,775.00 |
| Right of Way (Sq Ft) | Cost/ Sq Ft | Sq Ft | Total Cost | |
| Permanent Easement | \$ 4.00 | 4,800.00 | \$ 19,200.00 | |
| ROW Total | | | \$ 19,200.00 | |