



TRANSPORTATION & STREET IMPROVEMENTS PROGRAM

Project: Fairchild—Badley Road (Scenic Highway to Veterans Blvd and 600' of Elm Grove Garden)

Green Light Program ID: FF
 Project Length (feet): 6,020
 Existing Typical Section: Two-lane asphalt roadway with open ditch drainage adjacent to pavement
 Proposed Typical Section: Two-lane curb and gutter with sidewalks

Project Overview

This project will replace Fairchild-Badley Road - a narrow, two lane open ditch roadway - with a two lane curb and gutter street. Sidewalks will also be included in the project. Six Hundred feet of the Elm Grove Garden project (from the Fairchild-Badley Street intersection to the bridge 600' to the north) will be added to this project to facilitate construction.

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ASSUMPTIONS

- Pan American Engineers is the design consultant for this project.
- The bridge on Elm Grove Garden is to be replaced under the DOTD off system bridge replacement program. Therefore, the adjoining 600' of Elm Grove Garden and the Fairchild-Badley project will be grouped together during construction.

UTILITIES

| Possible Utilities | Existing | Adjust / Relocate |
|--------------------------------|----------|-------------------|
| Underground Electric | ● | ● |
| Overhead Electric | ● | ● |
| Overhead Electric Transmission | | |
| Water | ● | ● |
| Sanitary Sewer | ● | ● |
| Telephone | ● | ● |
| CATV | ● | ● |
| Gas Distribution | | |
| Gas HP Pipeline | | |

HYDROLOGY / HYDRAULICS

- Main tributary to Monte Sano Bayou crosses the roadway just east of the Elm Grove Intersection. The existing bridge is a narrow 2 lane bridge over the concrete lined canal, with a sewer line attached to the north side of the bridge. The bridge will be modified and expanded toward the south side to widen it sufficiently to accommodate sidewalks, keeping the sewer line in place.

TRAFFIC

- Projected Average Daily Traffic (ADT) for year 2030 is 4,073. The proposed project will provide a Level of Service (LOS) A for year 2030.



SIGNALIZED INTERSECTIONS

- Scenic Highway intersection will be signalized.
- Two new turn lanes are required for the project. One will be Fairchild-Badley westbound at Scenic Highway and one will be for Veterans Boulevard northbound onto Fairchild-Badley.

RIGHT OF WAY IMPACTS

- Apparent existing right of way is 45'.
- Due to the proximity of residences to the existing right of way line, designs will be considered to fit inside the existing right of way.
- New right of way is required for Fairchild-Badley right turn lane at Scenic Highway and for the bridge widening on Fairchild-Badley.

ENVIRONMENTAL CONCERNS

- Environmental mitigation is not anticipated for the multiple open ditches along the roadway.
- Potential hazardous substance issues regarding a Sun Cleaners facility at Scenic Highway. Anticipate cleanup will be required.
- No issues are anticipated regarding a Juvenile Detention Facility and three churches located at the east end of the project.

SOILS

- Soils in the project area are predominantly silty loam.



COST ESTIMATE

| | | | |
|-------------------------------------|-----------------------------------------|----|-----------|
| Project Description: | Two-lane curb and gutter with sidewalks | | |
| Project Length: | 6020 Feet (1.14 miles) | | |
| | CONSTRUCTION COST | | |
| Section 200 - | Earthwork | \$ | 246,342 |
| Section 300 - | Base and Subbase Courses | \$ | 588,196 |
| Section 400 - | Surface Courses | \$ | - |
| Section 500 - | Pavements | \$ | 300,536 |
| Section 600 - | Structures | \$ | 228,000 |
| Section 700 - | Drainage Work | \$ | 929,780 |
| Section 800 - | Sanitary Sewer Work | \$ | 8,400 |
| Section 905 - 906 | Pavement Markings & Signalization | \$ | 532,940 |
| Section 907 - 911 | Concrete Curbs & Sidewalks | \$ | 556,160 |
| | SUBTOTAL CONSTRUCTION COST (2006 \$) | \$ | 3,390,354 |
| MOBILIZATION | | \$ | 271,228 |
| | SUBTOTAL | \$ | 3,661,582 |
| CONTINGENCY & UNFORESEEN CONDITIONS | | \$ | 732,316 |
| | SUBTOTAL | \$ | 4,393,899 |
| | TOTAL CONSTRUCTION COST (2006 \$) | \$ | 4,393,899 |
| UTILITY RELOCATIONS | | \$ | 616,965 |
| TESTING | | \$ | 109,847 |
| LIGHTING, LANDSCAPING, SEEDING | | \$ | 175,756 |
| ENVIRONMENTAL STUDY | | \$ | 170,000 |
| ENGINEERING | | \$ | 439,390 |
| ENVIRONMENTAL MITIGATION | | \$ | 150,000 |
| RIGHT-OF-WAY | | \$ | 3,398,013 |
| | SUBTOTAL | \$ | 9,453,870 |
| PROGRAM & CONSTRUCTION MANAGEMENT | | \$ | 472,693 |
| | TOTAL PROJECT COST (2006 \$) | \$ | 9,926,563 |

Comments:

- Unit costs are assumed to include contractor overhead, profit and mark-ups
- Environmental mitigation will include environmental and protection of cultural resources
- Mobilization is expected to be 8% of construction cost
- Contingency and Unforeseen Conditions are expected to be 20% of construction cost
- Testing is expected to be 2.5% of construction cost
- Lighting, Landscaping, and Seeding is expected to be 4% of construction cost

Note: Percent Cost is for the GLP Program Average and NOT project specific obligation

- Engineering is expected to be 10% of construction cost
- Program & Construction Management is expected to be 5% of project costs

