



TRANSPORTATION & STREET IMPROVEMENTS PROGRAM

Project: Glen Oaks Drive (Plank Road to 500' East of McClelland Drive)

Green Light Program ID: KK
 Project Length (feet): 4,560
 Existing Typical Section: Two-lane without shoulders
 Proposed Typical Section: Three-lane, curb and gutter with sidewalks

Project Overview

Glen Oaks Drive is currently a two-lane roadway without shoulders from Plank Road to McClelland Drive. The proposed typical section is a three-lane curb and gutter roadway with sidewalks on one side and bike lanes on both sides. Due to the houses along the roadway, the proposed sidewalk will be located at the back of curb allowing the roadway to fit in the existing 50-foot right-of-way width.

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ASSUMPTIONS

- Project schedule assumes the project will not have to go through the NEPA process.
- The cost estimate assumes a pavement design of 8" Portland cement concrete pavement, 6" limestone aggregate base course, and 10" lime treated subgrade.

UTILITIES

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

A Subsurface Utility Investigation (SUE) will be conducted for this project. The cost of this activity is included within the final engineering cost.

HYDROLOGY / HYDRAULICS

- Existing ditches would be converted to storm sewer with reconstruction of roadway.
- Approximately 1500' of Beechwood Street outfall needs to be improved. A construction easement may be required for this outfall.

TRAFFIC

- Project Average Daily Traffic (ADT) for year 2030 is 11,986. The proposed project will provide a Level of Service (LOS) D for year 2030.



SIGNALIZED INTERSECTIONS

- Signals are not required at Plank Road Frontage Road, Beechwood, North Foster Drive, or McClellan Drive. Conduit and junction boxes will be installed at North Foster Drive and McClellan Drive for the possible addition of future signals.

RIGHT OF WAY IMPACTS

- Existing ROW is approximately 50' wide. Minor right of way to be acquired at North Foster.
- Entire project is in a residential area except businesses at the corner of Plank Road. These two businesses sit fairly close to Glen Oaks Drive compared with the houses. The proposed centerline of the roadway will be located in the same location as the existing centerline.

ENVIRONMENTAL CONCERNS

- Existing open ditches along the proposed project. Estimate one acre for environmental mitigation.
- Potential hazardous substance concern regarding old auto repair shop located within the project limits.

SOILS

- Project area soils are dark-colored, somewhat poorly drained, loamy soils.



COST ESTIMATE

Project Description:	Three-lane, curb and gutter with sidewalks		
Project Length:	4560 Feet (0.86 miles)		
	CONSTRUCTION COST		
Section 200 -	Earthwork	\$	219,970
Section 300 -	Base and Subbase Courses	\$	492,000
Section 400 -	Surface Courses	\$	-
Section 500 -	Pavements	\$	1,129,400
Section 600 -	Structures	\$	-
Section 700 -	Drainage Work	\$	1,282,040
Section 800 -	Sanitary Sewer Work	\$	23,000
Section 905 - 906	Pavement Markings & Signalization	\$	311,880
Section 907 - 911	Concrete Curbs & Sidewalks	\$	401,280
	SUBTOTAL CONSTRUCTION COST (2006 \$)	\$	3,859,570
MOBILIZATION		\$	308,766
	SUBTOTAL	\$	4,168,336
CONTINGENCY & UNFORESEEN CONDITIONS		\$	833,667
	SUBTOTAL	\$	5,002,003
	TOTAL CONSTRUCTION COST (2006 \$)	\$	5,002,003
UTILITY RELOCATIONS		\$	16,875
TESTING		\$	125,050
LIGHTING, LANDSCAPING, SEEDING		\$	250,100
ENVIRONMENTAL STUDY		\$	80,000
ENGINEERING		\$	500,200
ENVIRONMENTAL MITIGATION		\$	270,000
RIGHT-OF-WAY		\$	2,188,191
	SUBTOTAL	\$	8,432,420
PROGRAM & CONSTRUCTION MANAGEMENT		\$	379,459
	TOTAL PROJECT COST (2006 \$)	\$	8,811,878

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

