



TRANSPORTATION & STREET IMPROVEMENTS PROGRAM

Project: Ford Street (Plank Road to Mickens Road)

Green Light Program ID: 1
 Project Length (feet): 7,340
 Existing Typical Section: Two-lane asphalt roadway with open ditch drainage adjacent to pavement.
 Proposed Typical Section: Two-lane curb and gutter boulevard with sidewalks.

Project Overview

This project will replace the current narrow, two lane, open ditch roadway on Ford Street with two 12' travel lanes, sidewalks and a raised median. This will provide a significantly improved East-West connection between Plank Road and Mickens Road.

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ASSUMPTIONS

- ABMB is the current design consultant for the project.
- The Green Light Plan indicates a two-lane boulevard section is proposed for this project; however, the ABMB Design Study shows a two-lane curb and gutter typical section with sidewalks. For budgeting purposes, the additional cost for the boulevard section is included in the project cost estimate.

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

- Major concrete lined drainage ditch intersects the roadway (flows from the north to the south) on the Mickens Road end of the project.
- At the major drainage ditch, an existing double barrel concrete culvert extends across the width of the right of way.
- A drainage outfall intersects the roadway at the approximate midway point and a corrugated metal culvert (approx. 36" diameter) is currently crossing under the road.

TRAFFIC

- Projected Average Daily Traffic (ADT) for year 2030 is 3,577. The proposed project will provide a Level of Service (LOS) A for year 2030.



SIGNALIZED INTERSECTIONS

- Project has no signalized intersections.
- A right-turn and left-turn lane will be constructed for Ford Street westbound traffic at Plank Road. A new left turn lane will be constructed for the northbound Mickens Road.

RIGHT OF WAY IMPACTS

- Existing right of way is approximately 35' based on visual observation.
- The ABMB design report requires right of way be expanded to a total of 100'; therefore, an additional 65' would be required. The existing south right of way line will be held and the additional width will be acquired from the north side of the street. This will result in whole takes of parcels on the north side of the street, adding 100' to the existing 35' right of way.

ENVIRONMENTAL CONCERNS

- One and a half acres of wetland in the open ditches will be impacted.
- Project has three probable Phase I issues:
 - Hazardous substance concerns related to an old dry cleaning business located at 5278 Ford Street and a Jiffy Lube business located at the corner of Ford St. and Plank Road.
 - Potential asbestos and lead paint issues related to old residences along Ford Street.
 - One of the four churches along Ford Street would be affected by the northern roadway shift.

SOILS

- Predominant soils in the project area are silty loam.



COST ESTIMATE

Project Description:	Two-lane curb and gutter boulevard with sidewalks	
Project Length:	7340 Feet (1.39 miles)	
	CONSTRUCTION COST	
Section 200 -	Earthwork	\$ 397,037
Section 300 -	Base and Subbase Courses	\$ 771,176
Section 400 -	Surface Courses	\$ -
Section 500 -	Pavements	\$ 386,432
Section 600 -	Structures	\$ -
Section 700 -	Drainage Work	\$ 1,513,470
Section 800 -	Sanitary Sewer Work	\$ 16,400
Section 905 - 906	Pavement Markings & Signalization	\$ 329,180
Section 907 - 911	Concrete Curbs & Sidewalks	\$ 939,532
	SUBTOTAL CONSTRUCTION COST (2006 \$)	\$ 4,353,227
MOBILIZATION		\$ 348,258
	SUBTOTAL	\$ 4,701,485
CONTINGENCY & UNFORESEEN CONDITIONS		\$ 940,297
	SUBTOTAL	\$ 5,641,782
	TOTAL CONSTRUCTION COST (2006 \$)	\$ 5,641,782
UTILITY RELOCATIONS		\$ 370,026
TESTING		\$ 141,045
LIGHTING, LANDSCAPING, SEEDING		\$ 225,671
ENVIRONMENTAL STUDY		\$ 145,000
ENGINEERING		\$ 564,178
ENVIRONMENTAL MITIGATION		\$ 190,000
RIGHT-OF-WAY		\$ 12,046,803
	SUBTOTAL	\$ 19,324,505
PROGRAM & CONSTRUCTION MANAGEMENT		\$ 966,225
	TOTAL PROJECT COST (2006 \$)	\$ 20,290,730

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

