



## TRANSPORTATION & STREET IMPROVEMENTS PROGRAM

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### Project: Jones Creek Road Extension—Segment 1 (Jefferson Highway to Tiger Bend Road)

Green Light Program ID: BB  
 Project Length (feet): 4,900  
 Existing Typical Section: New facility  
 Proposed Typical Section: Four-lane curb and gutter boulevard with sidewalks

#### Project Overview

This project is a new location project from Jefferson Highway to Tiger Bend Road. The project will extend the existing project on Jones Creek Road from Tiger Bend Road to Coursey Boulevard south to Jefferson Highway. This four-lane curb and gutter project includes a raised median and sidewalks and requires a new bridge crossing Clay Cut Bayou. When combined with an existing Jones Creek Road project, Green Light Plan Project E-Jones Creek Road (Segment 3) and projects currently under design, it will provide an improved south-north connection extending from Jefferson Highway to Hooper Road.

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**ASSUMPTIONS**

- No design/concept work has been previously done on this project.
- The north leg of Jones Creek Road at the Tiger Bend intersection is constructed in the existing Jones Creek Road project from Tiger Bend to Coursey Boulevard.

**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 engineering (SUE) will be performed, and related cost is included in the final engineering cost estimate.

**HYDROLOGY / HYDRAULICS**

- Existing 400' of concrete riprap channel just south of Tiger Bend will be removed and will be replaced with multiple box culverts to convey the flow south to Clay Cut Bayou.
- Preliminary bridge hydrology analysis requires 160' bridge over Clay Cut Bayou.

**TRAFFIC**

- Based on the projected traffic of approximately 20,376 vehicles per day, the five-lane roadway section will operate at a level of service B for the 2030 design year.



**SIGNALIZED INTERSECTIONS**

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- Add a new traffic signal at the intersection of Jones Creek Road and Jefferson Highway to provide one left turn lane and one through lane for eastbound Jefferson Highway, provide one through lane and one right turn lane for westbound Jefferson Highway, and provide one left turn lane and one right turn lane for southbound Jones Creek Road.
- Modify the existing traffic signal at the intersection of Jones Creek Road and Tiger Bend Road to provide one left turn lane and two through lanes for northbound Jones Creek Road. Modify the Jones Creek Road project currently under design by Sigma Consulting Group, Inc. and existing Tiger Bend Road at the intersection to provide an additional left turn lane for southbound Jones Creek Road and provide an additional left turn lane for eastbound Tiger Bend Road.

**RIGHT OF WAY IMPACTS**

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- Acquire 125' right of way for this new location project to accommodate roadway embankment slope widths in fill areas.

**ENVIRONMENTAL CONCERNS**

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- Approximately fifteen acres of potential wetlands will be impacted for the construction of the project. Wetland delineation and mitigation will be required.
- Majority of the project length is within the flood plain area.
- Constructing a new bridge crossing over Clay Cut Bayou will require an environmental permit.

**SOILS**

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- The project area soils are level or nearly level, poorly drained, loamy soils on broad flats and in depressions.



**COST ESTIMATE**

Project Description:	Four-lane curb and gutter boulevard with sidewalks		
Project Length:	4900 Feet (0.93 miles)		
	CONSTRUCTION COST		
Section 200 -	Earthwork	\$	653,505
Section 300 -	Base and Subbase Courses	\$	848,400
Section 400 -	Surface Courses	\$	-
Section 500 -	Pavements	\$	2,016,203
Section 600 -	Structures	\$	595,200
Section 700 -	Drainage Work	\$	3,366,200
Section 800 -	Sanitary Sewer Work	\$	12,500
Section 905 - 906	Pavement Markings & Signalization	\$	550,300
Section 907 - 911	Concrete Curbs & Sidewalks	\$	549,600
	SUBTOTAL CONSTRUCTION COST (2006 \$)	\$	8,591,908
MOBILIZATION		\$	687,353
	SUBTOTAL	\$	9,279,260
CONTINGENCY & UNFORESEEN CONDITIONS		\$	1,855,852
	SUBTOTAL	\$	11,135,112
	TOTAL CONSTRUCTION COST (2006 \$)	\$	11,135,112
UTILITY RELOCATIONS		\$	15,413
TESTING		\$	278,378
LIGHTING, LANDSCAPING, SEEDING		\$	445,404
ENVIRONMENTAL STUDY		\$	205,000
ENGINEERING		\$	1,113,511
ENVIRONMENTAL MITIGATION		\$	900,000
RIGHT-OF-WAY		\$	6,275,615
	SUBTOTAL	\$	20,368,434
PROGRAM & CONSTRUCTION MANAGEMENT		\$	1,018,422
	TOTAL PROJECT COST (2006 \$)	\$	21,386,856

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

