



## TRANSPORTATION & STREET IMPROVEMENTS PROGRAM

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### Project: Perkins at Stanford / Acadian (Intersection Improvement)

Green Light Program ID: U  
 Project Length (feet): Intersection  
 Existing Typical Section: Intersection  
 Proposed Typical Section: Add an additional left-turn and right-turn lane to all four quadrants of intersection

### Project Overview

The Perkins Road and Stanford Avenue/Acadian Thruway intersection improvement project adds several turn lanes, which requires some right-of-way acquisition.

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In association with:

PBS&J

GOTECH, Inc.

Neel-Schaffer, Inc.

Compliance Consultants, Inc.

Jones Walker, LLP

John C. Doiron  
 MAI Appraisal Services

Rampart Resources

SSA Consultants, LLC

**ASSUMPTIONS**

- Two additional turning lanes will be added to each quadrant of the intersection. This would require right of way acquisition of 30' additional feet of right of way width.
- Project schedule assumes the project will not have to go through NEPA process.
- Proposed sidewalks at this intersection will be placed only in the areas were sidewalk is currently located. Handicapped ramps will be added at the four corners of the intersections to meet ADA requirements.
- Project cost estimate assumes a pavement design of 10" Portland cement concrete pavement, 10" limestone aggregate base course, and 12" lime treated subgrade.
- Project estimate assumes that the majority of the construction of this project will be completed during nighttime, off-peak hours.
- Cost estimate reflects salvaging of existing pavement.

**UTILITIES**

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

It is recommended that a Subsurface Utility Investigation (SUE) be conducted for this project. The cost of this activity is included within the Final Engineering cost.

**HYDROLOGY / HYDRAULICS**

- Both roadways have existing curb and gutter with a storm sewer drainage system at the intersection. The specific location of the trunk line is unknown, and drainage analysis will be required in order to add turning lanes at the intersection without significantly affecting the existing storm drain system.



**SIGNALIZED INTERSECTIONS**

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- Existing signal at this intersection. The existing configuration contains two through lanes and a left-turn lane in all four directions.
- Based on projected traffic data, the proposed configuration will be two through lanes, two left-turn lanes, and a right-turn lane in all four directions.
- Signalized intersection will be added on west Perkins Road leg at the proposed Acadian Village development

**RIGHT OF WAY IMPACTS**

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- Corner clips will be required at all four intersections for the additional turn lanes. A minimum of two turning lanes will be added to each quadrant of the intersection. This will require an additional 30' of right of way width. Some additional right of way will all be acquired on each side of both roadways. This was necessary to keep the proposed through lanes lined up across the intersection. Several houses on the southwest and southeast corners will need to be removed. In addition, a section of the parking lots from the businesses on the northwest and northeast corners will be taken.

**ENVIRONMENTAL CONCERNS**

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- There are no wetlands in the project area.
- Underground storage tanks (UST) located at former Exxon on the northeast corner. This was an old remediation site in the early 1990's.

**SOILS**

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- Project area soils are somewhat poorly drained to moderately well drained and loamy.



**COST ESTIMATE**

Project Description: Add additional turn lanes to all four quadrants of intersection

Project Length: 3,160 Feet (0.60 miles)

ITEM	CONSTRUCTION COST DESCRIPTION	TOTALS
Section 200 -	Earthwork	\$ 185,741
Section 300 -	Base Course	\$ 130,534
Section 400 -	Surface Courses	\$ 35,000
Section 500 -	Pavements	\$ 953,835
Section 600 -	Structures	\$ 71,046
Section 700 -	Drainage Work	\$ 314,032
Section 800 -	Sanitary Sewer Work	\$ 21,000
Section 900	Miscellaneous Construction	\$ 922,715
	SUBTOTAL CONSTRUCTION COST	\$ 2,633,903
MOBILIZATION 8%		\$ 210,712
	SUBTOTAL	\$ 2,844,615
CONTINGENCIES 15%		\$ 426,692
	TOTAL CONSTRUCTION COSTS	\$ 3,271,308
TESTING		\$ 81,783
UTILITY RELOCATIONS		\$ 157,900
LIGHTING LANDSCAPING AND SEEDING		\$ 441,786
ENVIRONMENTAL MITIGATION		\$ --
ENVIRONMENTAL STUDY		\$ 5,294
ENGINEERING COSTS FROM: RIGHT-OF-WAY		\$ 4,596,564
	SUBTOTAL	\$ 8,609,398
PROGRAM & CONSTRUCTION MANAGEMENT (5% OF PROJECT COSTS)		\$ 430,470
	TOTAL PROJECT COSTS	\$ 9,039,868

- Unit costs are assumed to include contractor overhead, profit and mark-ups
- Mobilization is expected to be 8% of construction cost
- Nightwork Premium is expected to be 25% of construction cost
- Contingency and Unforeseen Conditions are expected to be 15% 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
- Program & Construction Management is expected to be 5% of project costs

