



CITY OF SUGAR LAND

Engineering Department

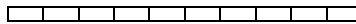
CIP Project Number: TR1003

Title: Rail Monitoring System

Project Phase: Construction

% of Phase Completion

Construction



Cost for this Phase: \$120,000

Funding Sources: General revenue

Project Manager: David Worley

Contractor: TBD

Consultant: TTI

Project Description: This will cover 6.4 miles of US 90A rail-highway corridor between Kirkwood and Grand Parkway. The system monitors the following parameters: presence of train and direction, speed of train, length of train, and crossing gate closures via monitoring of traffic signal preemption relays. Using this information, the system determines real time train status and projects downstream crossing closing and clearance times.

Justification: This project examined how real-time detection, communication, and information systems can be integrated to monitor the movements of trains in a corridor to reduce conflicts and delays created by railroad grade crossings for the primary benefit of fire and police personnel while on emergency runs.

Updates:

November 2009: Public Works and TTI are scheduled to meet end of December to develop scope for this phase of the project. The scope for this phase will include the design and specifications for the equipment to be used in implementation. This equipment will be compatible with our new WiFi system and ATMS.now traffic software.

December 2009 - The traffic Operations staff met with TTI to develop a scope for the rail monitoring project. New products were examined and will be included in the scope of the project. Expect new scope to be completed January 2010.

January 2010 - The traffic Operations staff continues to meet with TTI on developing a scope for the rail monitoring project. The focus has been on replacing obsolete equipment, software and communications back to Traffic Management Center. We are anticipating completing this task by the middle of February.

February 2010- Met with TTI regarding scope of project. Currently TTI and the City are reviewing processing units for use in this project. We have also surveyed the corridor for use of the preexisting sites. The results of the survey were positive.

March 2010 - TTI and the City are still reviewing processors for this project. Originally a prototype processor was used when the project was first developed. Technology has changed since then and there are "off the shelf" processors available. There is a processor made in Europe that staff believes will work. TTI has assured that this will be the correct choice.

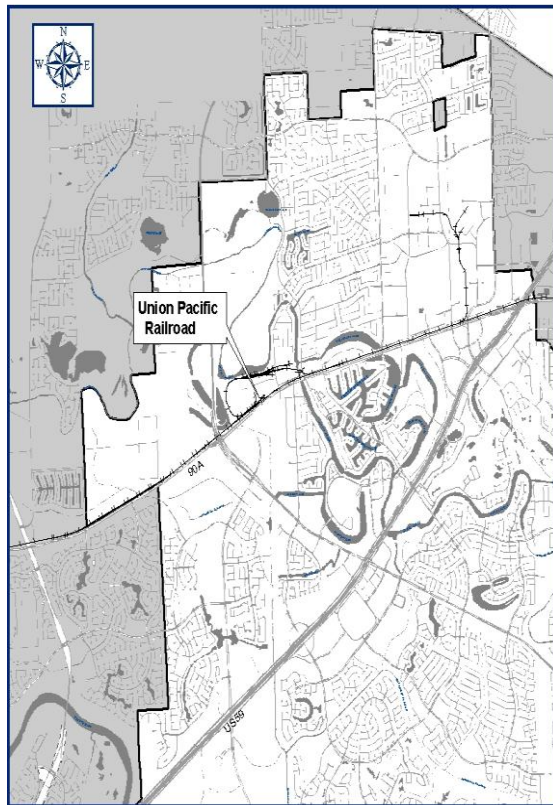
April 2010 - Working with TTI on the contract and we should receive a draft to send to legal for their review by early May.

May 2010 - Been in communication with TTI staff in College Station and, we are expecting the revised contract in early June.

June 2010 - Received contract from TTI last week of June. Currently the contract is under review with the City's legal department. Expect to receive their review comments along with recommendations to be complete first part of July.

August 2010 - Received final contract from TTI and City Legal Department has approved the final version.

September 2010 -Preparing City Council Agenda Item to be presented to Council in October.



City of Sugar Land
Capital Improvement Program

TR1003 Rail Monitoring System



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Capital Improvement Program