

Scope of Services
Development of VISSIM Model Applications
(RPC Task S-1.18; FY-18 UPWP)

PURPOSE

The Regional Planning Commission in coordination with Jefferson Parish is conducting a traffic study along Jefferson Highway (US 90) within the medical center corridor. RPC is seeking technical assistance for the development of a VISSIM model to foster visualization and understanding of the various alternatives under development. The modeling work will extend from LA Hwy. 3046 (Causeway Boulevard) to Jules Avenue, a distance of approximately one mile. The model will also address proposed improvements on River Road (LA Hwy. 611) between Causeway Boulevard and Collins Diboll Drive, a distance of 0.3 miles. The technical consultant will inform the transportation planning and decision-making process by utilizing VISSIM software (version 5.0 or higher) and modeling to visually illustrate and compare existing and future traffic conditions for both the no build and build development alternatives.

SCOPE OF SERVICES

The RPC will provide the consultant with proposed access management and complete streets modifications for review and input into the development of the VISSIM modeling process, including a high resolution GIS aerial base map. Other study data, including traffic counts and intersections levels of service, will be made available for the 2017 base year (existing conditions), as well as future traffic forecasts for 2021 and 2041.

- 1) A limited number of 48 hours traffic and/or classifications counts (not to exceed six count locations) may be required for model calibration purposes.
- 2) Review and refinement of the GIS base map to reflect existing conditions and key land uses along the study corridors, i.e., US 90 and LA 611.
- 3) In coordination with RPC staff, the consultant will be responsible for development of the various traffic modeling alternatives, as follows:
 - a) Existing Land Use, Traffic, and Geometric Conditions
 - b) Existing Conditions with Proposed Geometric Improvements
 - c) Future Traffic with Existing Roadway Conditions
 - d) Future Traffic with Proposed Geometric Conditions for 2021
 - e) Future Traffic with Proposed Geometric Conditions for 2041

DELIVERABLES

The consultant will be responsible for the development and analysis of the traffic modeling data. Following the notice to proceed and prior to the commencement of data collection and modeling work, RPC and the consultant will discuss the details of the modeling process with RPC and Jefferson Parish Traffic Engineering. The VISSIM model(s) will be reviewed with the Project Management Committee in draft form to receive comments prior to finalization.

The final VISSIM model(s) will be prepared in a format as agreed to with RPC and suitable for presentation, including one presentation to the Ochsner Medical Center Board and one public informational meeting.

The consultant will submit two (2) hard copies of all traffic data and five (5) CD/DVD discs with an electronic version of the final VISSIM model(s) in the agreed upon format.

PROJECT TIMELINE

The project is anticipated to take four (4) months to complete from the Notice to Proceed.

COMPENSATION

\$40,000