

# Environmental Review

## Floodplains

- The project area is located within the Trinity River basin and portions of the project corridor are situated within Federal Emergency Management Agency (FEMA) designated 100-year flood hazard areas. These flood hazard areas are associated with Doe Branch, Little Elm Creek, and Mustang Creek. The hydraulic design for this project would be in accordance with current TxDOT policies.

## Waters of the U.S.

- The proposed project would include potential impacts to waters of the U.S., including 12 tributaries, one open water feature, and nine wetlands. Impacts would be authorized by the U.S. Army Corps of Engineers under Section 404 Nationwide Permits 14. A Preconstruction Notification to the Army Corps of Engineers would be required due to impacts to wetlands.

## Cultural Resources

- Both archeological and historic resources surveys were completed and no impacts to protected resources would occur.

## Traffic Noise

- A Traffic Noise Analysis was accomplished in accordance with TxDOT's (and Federal Highway Administration approved) Guidelines for Analysis and Abatement of Roadway Traffic Noise. Based on the analysis, noise barriers were determined to be reasonable and feasible at four locations: 1) Mezzo Apartments, 2) Glenbooke Neighborhood, 3) Arrowbrooke Neighborhood and 4) Sand Brock Ranch Neighborhood. The locations of the proposed noise barriers are included on the schematic and will be finalized after a noise workshop has been conducted.