

## **Beltway 8, IH-45 South to IH 45 North Houston, Texas**

CobbFendley provided final design and engineering construction services for installation of fiber optic cable, and equipment along a 34 mile stretch of East Beltway 8 from IH 45 South to IH 45 North. Unique to this project was the crossing of the Houston Ship Channel Bridge, the crossing railroads, several bayous, a fresh water supply channel, gas and oil pipelines, highways and toll roads and the design of electrical infrastructure along the 34-mile corridor.



This project was designed for the Harris County Toll Road Authority (HCTRA) and TxDOT with project highlights including installation of the following: 38 CCTV camera mounts and infrastructure; 17 LED DMS signs, mounts, and infrastructure; 39 Radar Vehicle Detection System mounts and infrastructure; infrastructure for AVI; installation of 12 hub buildings; and 3-satellite control building.

The project also included specialized design for the placement of conduit. This special work included fiberglass conduit and special brackets for the Ship Channel Bridge; approximately 22,500 feet of fiberglass conduit was used with special brackets for mounting conduit inside bridge metal beams.

CobbFendley's scope of work included the design of electrical services and infrastructure, wiring, service connections, one line panels, control panels for the above referenced camera's and DMS signs, hub buildings, satellite buildings and equipment.

**Project Length:**

34 miles

**Completion Date:**

2010