

## PROJECT HIGHLIGHTS

- **Airborne and Terrestrial Mobile Data** (Riegl Q560 / Riegl VMX 250 systems)
- **Post-processed with TopoDOT® in MicroStation™**
- **Feature extraction and modeling approximately 7 man-days**
- **DTM includes main Highway and 200ft beyond right of way**

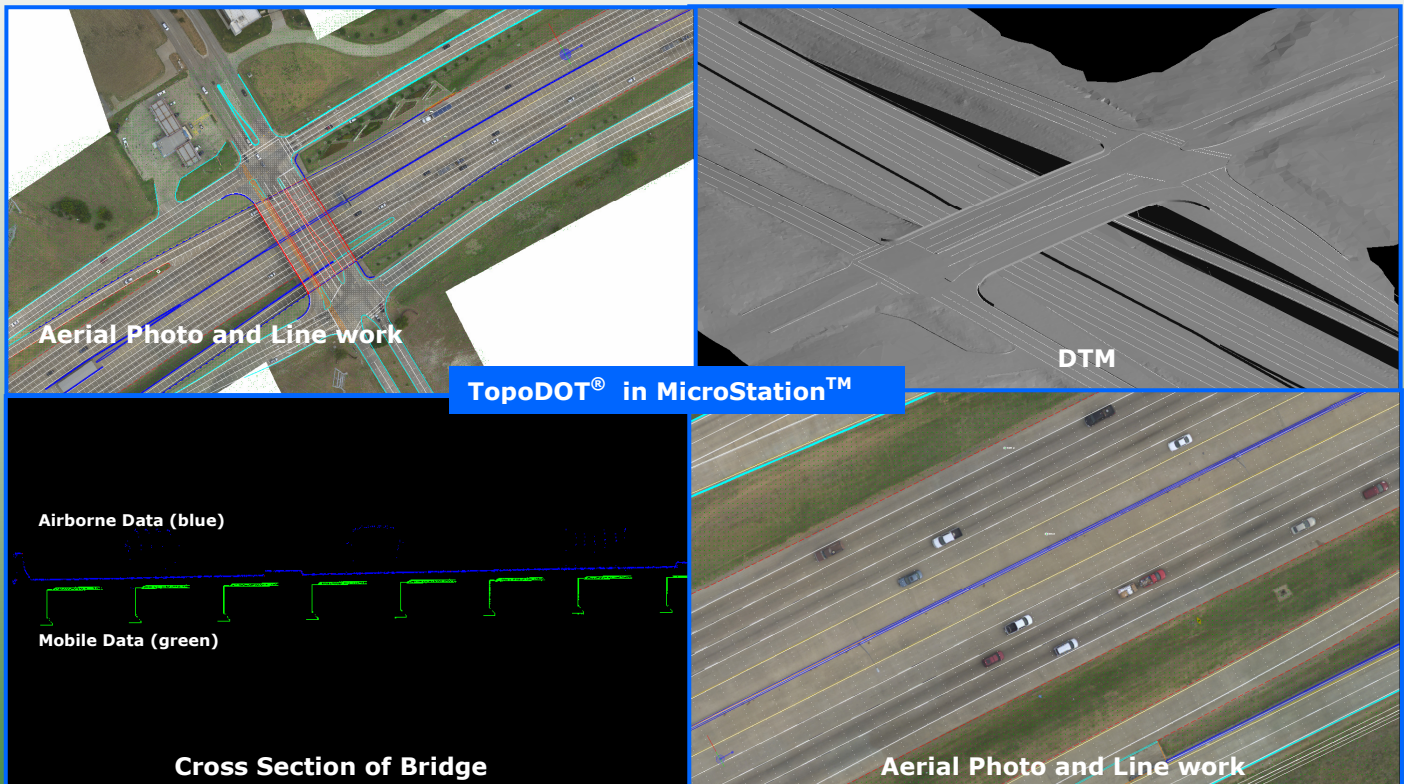
**Customer:** Texas Department of Transportation  
**Demo-Project:** Interstate-60 West/East, Texas

**Dates:** September 2010  
**Size:** ~1 mile, Multi-lane Highway  
**Type:** Survey - Full DTM/TOPO

**Project Mgr:** Michael Cook

### Project Summary:

**Certainty 3D** employed TopoDOT® to produce a full DTM/Topographic model for a TxDOT Demo. Point Cloud data was collected from two separate Riegl LiDAR systems: A Q560 Airborne LiDAR scanner (LiDAR data and Aerial Image collection courtesy of Tuck Mapping Solutions, Inc), and a VMX 250 Mobile LiDAR twin-scanner (collection courtesy of R.E.Y. Engineering, Inc). Aerial Imagery was collected via an Analog Leica RC30, courtesy of Tuck Mapping Solutions, Inc. Data collection covered a 1-mile section of multi-lane Highway on Interstate 60 West/East. A highly detailed topography was extracted from this data. Survey includes Roadways (10x3 ft grid on road surfaces), Terrain Features (3x3 ft grid on terrain surfaces), Bridges, Road Markings (10-20 ft intervals), major Break-Lines (Curbs/Retention Areas/Barriers/Retaining Walls), all Highway Utilities (above ground), Environmental Objects (Vegetation), and other features. Project processing time was approximately 7 man-days.



### Deliverable Summary

- Data processed using Certainty 3D's TopoDOT® application in MicroStation™
- TopoDOT® employed in verification of data accuracy against survey control
- TopoDOT® generated model delivered in MicroStation™ CAD formats
- Topography extracted and delivered to DOT format and specifications