Interstate-5, CA

R.E.Y. ENGINEERS, INC.
Civil Engineers / Land Surveyors

Customer:	REY Engineering/ Caltrans
Project:	California Interstate 5 - NB/SB
Dates:	December 2010
Size:	~ 15 miles N/S bound (120 lane miles)
Type:	Full DTM/TOPO – Multi-Lane Highway
C3D Lead:	Jennifer Triana and Michael Cook

PROJECT HIGHLIGHTS

15 miles North/South bound lanes, ramps and bridges acquired in 2 days

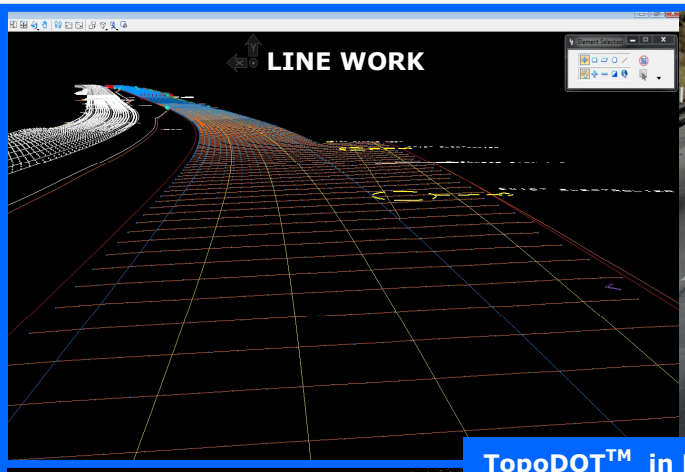
Pavement Quality Survey

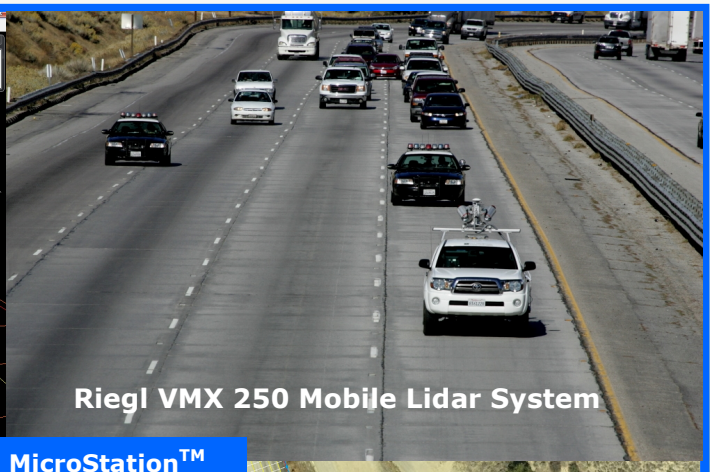
3D CAD (MicroStation™) and CAICE Deliverables

Processed in TopoDOT™

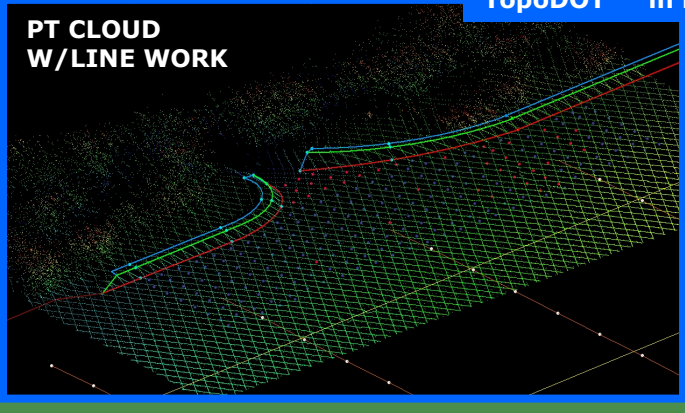
Project Summary:

Certainty 3D under the direct supervision of REY Engineers, Inc. of CA used TopoDOT to support the processing of 15 miles of North and South bound California I-5. Data was collected by R.E.Y., using the Riegl VMX250 mobile lidar system. Collection covered a total of 15 miles of multilane highway (I-5) in California. Extraction included: standard topography break line elements such as edge of pavement, ditches, curbs, bridges, drain-inlets, etc. In addition surface elevations (3x10ft grid on road, 3x3ft grid on ground) and Utilities (all signs, inlets, lights, guard rails, etc.) were identified and extracted. A quote from Caltrans District 7 survey staff, *". . . our mapping unit has reviewed your pilot deliverable and finds everything runs fine (in CAiCE). I think this is the first project I've seen by consultants not requiring major modifications of the first submittal. Well done!"*





TopoDOT™ in MicroStation™



Deliverable Summary

- **Data processed using Certainty 3D's TopoDOT™ application in MicroStation™**
- **Deliverables were 3D MicroStation™ CAD and CAiCE models**
- **TopoDOT™ extracted features directly in Caltrans formats**

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