



Transmission Substation, OH



PROJECT HIGHLIGHTS

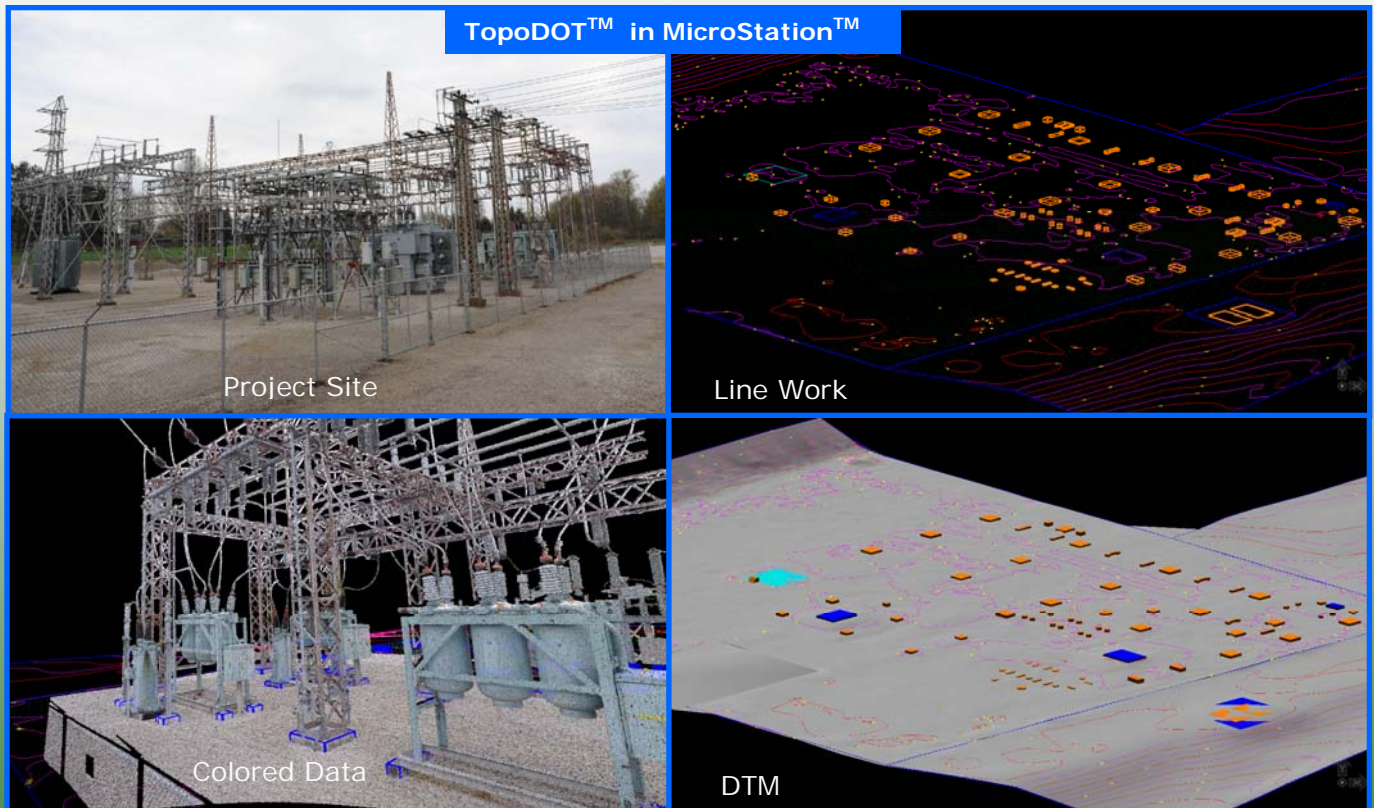
- Very high resolution topography/DTM exceeding project survey requirements
- Field time reduced by 80% over conventional
- Scanned outside and through fencing
- Lower cost / higher quality deliverable over conventional survey

Customer: Woolpert, Inc.
Surveyor: Woolpert Surveying
Project: Transmission Substation, Ohio

Dates: April 2010
Size: 3 Acres, Substation and Lot
Type: Survey – Full DTM/TOPO
Project Manager: Jennifer Triana

Project Summary:

Woolpert, Inc. applied 3D imaging technology to produce a full DTM/Topographic survey on a Transmission Substation located in Ohio. The scanned project was conducted outside of the fenced substation; therefore, powering down the facility was not necessary and the operator was in no risk of a safety hazard. A control network was established using conventional surveying methods. 3D Image data was acquired efficiently using the RIEGL VZ400 LiDAR scanner. A highly detailed topography was extracted from the data including concrete utility pads, building structure foundation, road and terrain spots (1x1ft and 2x2ft grid respectively), perimeter fencing, and other features. The combination of these extracted features gives an extremely detailed DTM. Total project time was within a day and the processing took one day for one processor. Total project time and cost were less than conventional surveying and yielded a superior product.



Deliverable Summary

- Data processed using Certainty 3D's TopoDOT™ application in MicroStation™
- All 3D image data is traceable back to control network survey reference
- TopoDOT™ generated model delivered in MicroStation™ and LandXML™ formats