



LiDAR Scanning Services Overview

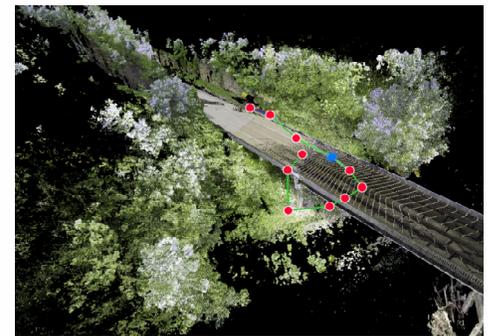
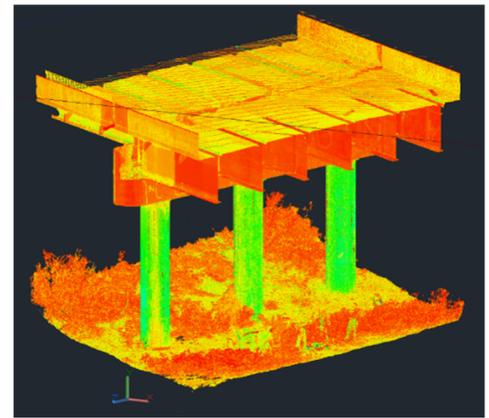
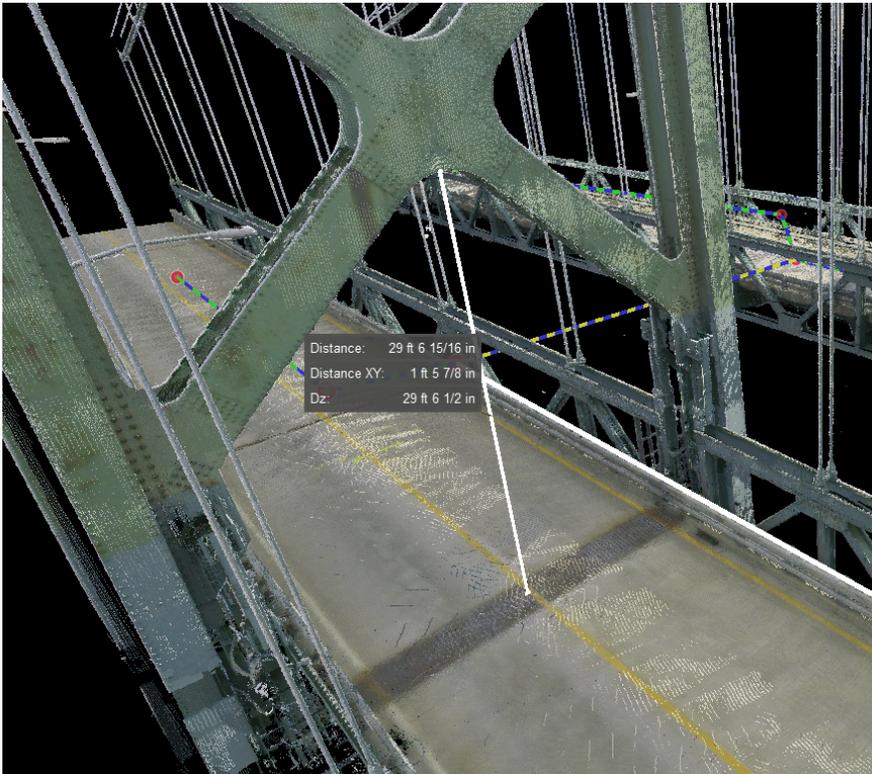


Overview of Genesis Structures LiDAR Scanning Services:

- ✓ Scan project site with Leica RTC 360 LiDAR Scanner
- ✓ Create accurate point cloud of project site, accurate to within 1/16"
- ✓ Provide Point cloud file for accurate measurements and virtual walkthroughs
- ✓ Files can be imported into virtually any CAD package
- ✓ CAD Model development of existing structure and construction operations
- ✓ Project site development and equipment clash detection
- ✓ Online and cloud-based interfaces available



LiDAR Scanning Services Scan & Point Cloud File



Services Provided:

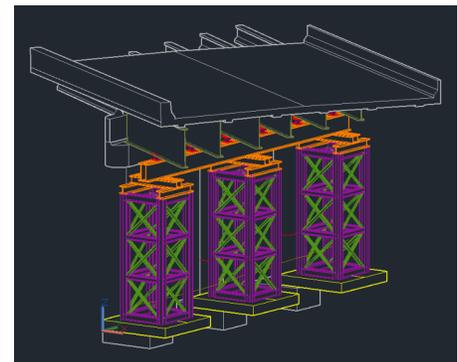
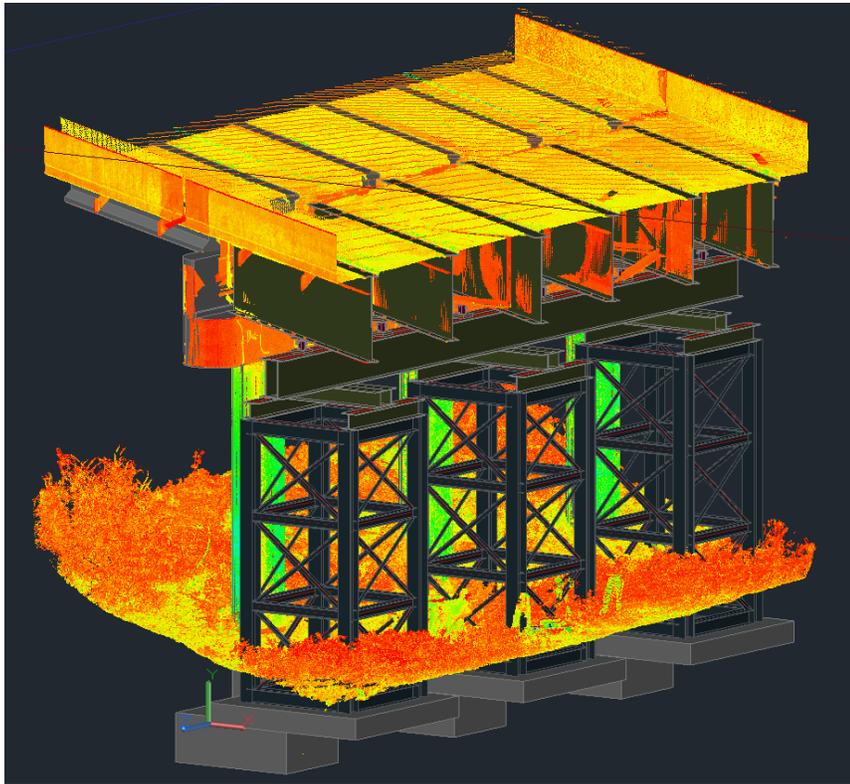
- ✓ Perform LiDAR scan of project site
- ✓ Register scan setups into single cross referenced point cloud
- ✓ Publish point cloud to requested format
 - Autodesk RECAP (.rcp), Leica LGS (.lgs)
 - Importable into most CAD packages
- ✓ Publish model to cloud for online access
 - Files can be easily accessed and used through online viewers

Benefits:

- ✓ Provides accurate point cloud model of project available 24/7.
 - Eliminates additional trips to jobsite for additional pictures or measurements.
- ✓ Provides online access of model to share with project stakeholders
 - Take measurements, perform walkthroughs
- ✓ Accurate point cloud of project site for further CAD model development



LiDAR Scanning Services 3D Structure Modeling



Services Provided:

- ✓ Import point cloud into AutoCAD
- ✓ Model existing project structures in as-scanned position
- ✓ Model new project components, temporary falsework and other project specific elements
- ✓ Publish model to cloud for online access
 - Files can be easily accessed and used through online viewers

Benefits:

- ✓ Builds confidence that modeled components will interface with the existing structure.
- ✓ Develops accurate as-built solid model of existing structure for development of other project elements.
- ✓ Provides online access of model to share with project stakeholders
 - Take measurements, perform walkthroughs





Services Provided:

- ✓ Import point cloud into AutoCAD
- ✓ Model critical construction equipment and investigate feasibility and to identify potential interferences
- ✓ Model construction operations and equipment movements to investigate potential interferences
- ✓ Publish 3D model to cloud for online access
 - Files can be easily accessed and used through online viewers

Benefits:

- ✓ Plan detailed construction operations through visualization in virtual space
- ✓ Identify potential construction operation issues before equipment is onsite
- ✓ Develop detailed critical lift or critical operation imagery for clear communication of the lift plan or operation
- ✓ Provide online access of model to share with project stakeholders