

CONSTRUCTION ADMINISTRATION & CONSTRUCTION INSPECTION



CCI Engineering Services has been offering a broad range of engineering and construction related services for over 30 years, and can provide Construction Administration and Construction Inspection (CACI) services for your Transportation, Aviation, Facilities, or Utilities project, including ODOT specifications, construction scheduling, and project site inspections.

Current CACI Certifications and Training:

- * ACI Grade 1 Field Testing Technician
- * IMSA: Work Zone Temporary Traffic Control Technician, Traffic Signal Technician Level 1, Traffic Signal Construction Technician Level 2, Roadway Lighting Technician Level 1
- * NECEPT Penn DOT: Concrete Field Testing Technician, Bituminous Field Technician
- * NICET Level 2
- * ODOT Flexible Pavements
- * OAIMI Level 1 Aggregate
- * OCAPE Field Quality Control Supervisor
- * OSHA Confined Space Entry Training for Construction

Our inspectors are veterans in their field with many years of experience across industries and states. They can provide CACI for a variety of projects including:

Transportation:

- * City of Solon, Pettibone Rd Reconstruction (LPA Project)
- * City of Cleveland & ODOT District 12, Cuy-Lakefront West (W 73rd St)
- * City of Parma, Ohio, Corporate Dr & 5520 Chevrolet Blvd
- * City of Hudson, Ohio, SR91/Darrow Rd 1800 LF Widening & Reconstruction
- * ODOT, CUY-SUM-I-77

Utilities (Water/Wastewater):

- * Franklin County Little Farms Water Main Replacement
- * Eastside Sanitary Sewer Improvement, City of Chardon
- * City of Lorain Water Department, SR6 12" DIP Watermain

Other:

- * Cleveland Bulkhead (Flats East) Replacement
- * Cleveland Riverwalk (Flats East), Port of Cleveland
- * Youngstown Warren Regional Airport, Runway Extension
- * Greater Pittsburgh International Airport, Main Runway Repair and Overlay

DBE/WBE/SBE with
41 Certifying Agencies
Including OH EDGE

INDUSTRIES:
Transportation - Aviation
Utilities - Facilities

Columbus - Cleveland
Akron - Orlando - Atlanta
New York

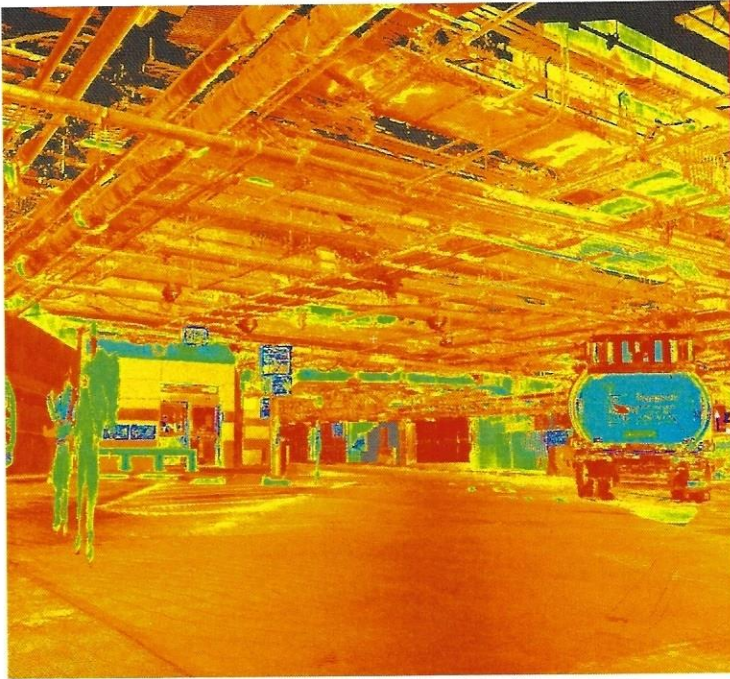
CONTACT:
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www.ccitechs.com





NATIONAL PIKE LITTLE FARMS WATER MAIN REPLACEMENT SURVEY

CCI performed a certified photogrammetry survey of the 200-acre National Pike Little Farms community in western Columbus, OH. Over 10,000 images were captured over a three-day period, tied to 60 surveyed ground control points with 3cm absolute accuracy. The processing yielded a multi-billion point cloud producing a DSM and topo contours leveraged to design a water main replacement for the community.



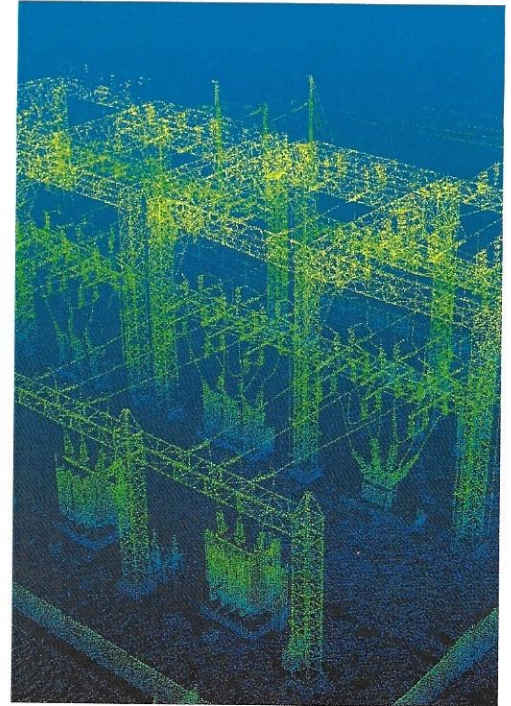
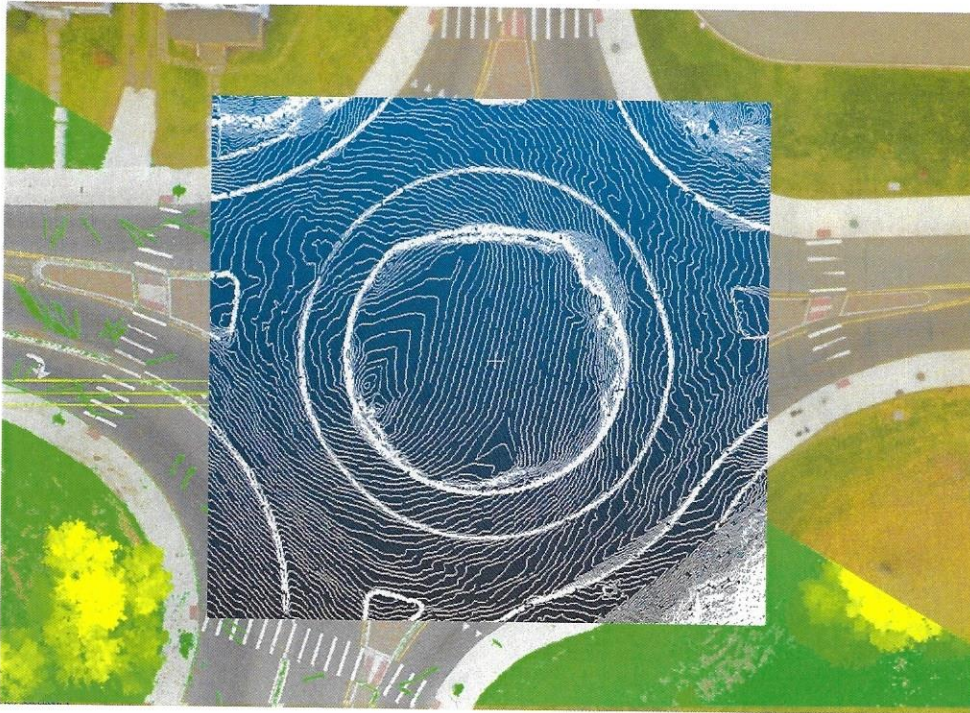
PANYNJ BUS TERMINAL TRUSS SCAN

The purpose of the Bus Terminal Scan was to analyze existing structures for fatigue and accessibility. CCI technicians captured the laser scan data of the interior of several trusses, from which a registered point cloud was created and processed into Autodesk ReCap. 2D, dimensioned cross sections were created from the final point cloud. This data is used for condition assessments.

NEORSD EASTERLY WWTP UAS PHOTOGRAMMETRY SURVEY AND GIS

CCI performed a photogrammetry survey of the Easterly WWTP, a 168-acre site. Nearly 10,000 images were captured, yielding high resolution point cloud models of three targeted facility structures, settling and aeration tanks, in addition to inspection grade images of chimneys and roofs. Additionally, a thermal survey capturing roof and energy conditions was conducted. A GIS database of exterior features was developed from this survey.





REALITY CAPTURE SERVICES

CCI Engineering Services provides Reality Capture (existing conditions) services using a variety of methods, including terrestrial based laser scanning, unmanned aerial systems (UAS) high resolution photogrammetry, LiDAR, and ground based photogrammetry. The combination of these methods provides the most comprehensive representation of the facility or feature being captured. We coherently hybridize these capture methods and take the extra step to deliver this existing conditions data in the optimal format required for your application. Reality Capture is the quickest way to build a *SLIM BIM* to manage assets and track conditions over time.

Final deliverables can include:

- * Photo-imagery (orthomosaic, planimetry, inspection images) *
- * Registered Point Clouds – ReCap (RCP), PTX, PTY, LAS, E57 *
 - * Agisoft Metashape/Photomapper & Pix4D Models *
- * Infracore Models * Revit 3D Building Information Models *
- * Site Plans * 2D Sections and Elevations * Civil 3D Site Model *
 - * GIS geodatabase (SHP, GeoTIFF, KML, GeoJSON) *
 - * Digital Surface Model (DSM) and Contours *

Reality Capture adds value to a wide range of applications:

- * Multi-discipline Precise Existing Conditions and As-Builts *
 - * Airfield/Transportation Pavement Analysis/Tracking *
- * Construction Monitoring and QA/QC * Stockpile Quantization *
- * Large Footprint Civil Project Design * Site Scouting/Speculation *
 - * Historical Documentation * Asset Management *
 - * Work Site Safety Auditing/Monitoring *



Since 1984

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