

EXISTING CONDITIONS SERVICES

PDBiM provides Existing Conditions (reality capture) 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. An Existing Conditions 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-Built *
- * 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 *



Utilities - Facilities
Transportation - Aviation

DBE/WBE/SBE with
41 Certifying Agencies

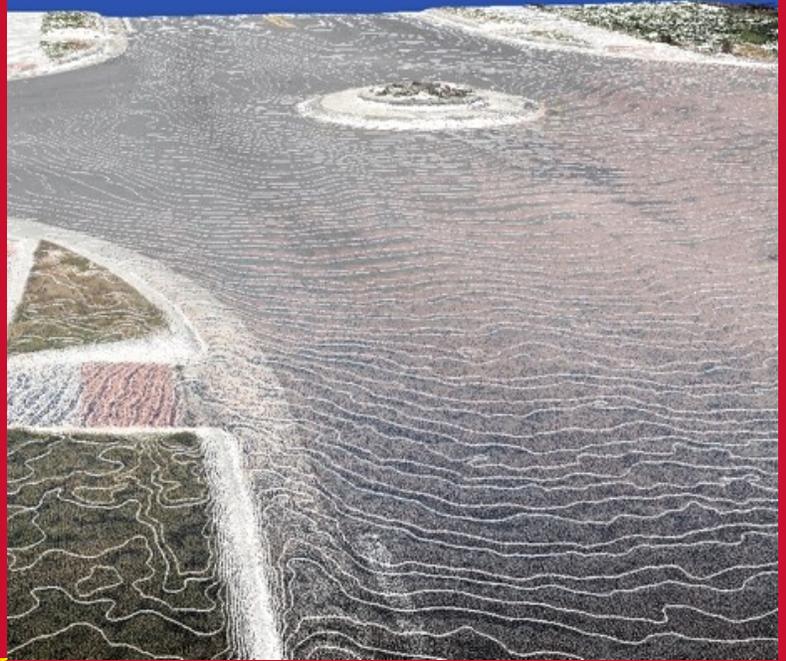
14 CFR Part 107 Certified Pilots

Orlando - Atlanta
New York - Columbus
Cleveland - Akron

201-400-8199
www.pdbim.com

NATIONAL PIKE LITTLE FARMS WATER MAIN REPLACEMENT SURVEY

PDBiM 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. PDBiM 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

PDBiM 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.

