



Craig A. Smith & Associates, Inc.

Engineers • Surveyors • Subsurface Utility Engineering • 3D Subsurface Imaging • Utility Coordination

Project Profile

The WAVE – Modern Streetcar, Broward County, Fort Lauderdale, Florida – Redevelopment

Client: HDR, Inc. – Bob Cone, P.E. VP / Will Suero, P.E. VP

Project Description: Proposed downtown circulator streetcar system for redevelopment / revitalization of Downtown Fort Lauderdale, Florida. The system is divided into two phases; 1A & 1B, with Phase 1A encompassing approximately 1.7 miles of track corridor, this phase is scheduled for design completion in 1Q 2014, Phase 1B will extend the system an additional 1.7 miles and is scheduled for design completion in 4Q 2014.

Scope: CAS was tasked with performing complete 3D Radar Tomography Enhanced Subsurface Utility Engineering services, 3D CADD Modeling of existing utility systems, creation of an existing surface model based off the 5' x 5' topo points collected through the 3D RT process. CAS is providing a complete subsurface model to assist in the development of utility relocation planning and establishment of new utility corridors.

Fees: \$264,000 – Phase 1A & \$350,000 – Phase 1B

Approach: CAS assigned existing crews and specialized staff to perform system designating utilizing EM and GPR instruments to identify and locate all utility systems within the project area. Performed extensive 3D Radar Tomography Scanning to provide continuous precision x,y,z information on critical subsurface systems. CAS performed over 500k SF of 3D RT, GPR and EM locating.

Key Personnel:

James F. Driscoll – Field Management & 3D RT Scanning

Stephen C. Smith, P.E. – Quality Assurance

Raul Carbonell – Vacuum Excavation Soft Digs

Robert D. Keener, PSM – Project Survey

Kerry Loggins, CD – CADD & 3D Modeling

