



PROJECT BRIEF

Regional Connector Instrumentation & Monitoring

PROJECT PROFILE

CLIENT:
Regional Corridor Constructors

LOCATION:
Los Angeles, CA

VALUE:

- Reduce risk to general public and building owners during construction activity
- Allow construction activity to progress in a continuous operation without delays that could occur due to unknown performance
- Allow contractor and owner to immediately assess performance affects of changes in construction sequencing or ground conditions

SERVICES PROVIDED:

- Instrumentation and monitoring of tunnel excavation
- Data management collection system and real-time assessment

“iSiteCentral® was used to provide continuous, real-time assessment of construction related activity to help the contractor control excavation and mitigate risk of unexpected movement to adjacent buildings.”



INSTALLATION OF GEOTECHNICAL INSTRUMENTS & DATA AUTOMATION

Geocomp’s contract included instrumentation and monitoring for over one mile of twin bored tunnel and three cut-and-cover/station excavations using our iSiteCentral® GIS web-based software to provide continuous, real-time assessment of construction-related activity to help the contractor control excavation/tunneling work and to mitigate risk of unexpected movement to adjacent buildings and utilities. Geocomp’s iSiteCentral® will integrate data from more than 3,000 sensors, including automated MPBXs, inclinometers, strain gages, load cells and tilt meters, settlement monitoring points and performance data from the contractor’s TBM. Remotely positioned data collection systems were placed along the full length of the 1.9 mile transit line. Data was then transmitted wirelessly to the database.



BACKGROUND

LA Metro awarded the \$1.4 billion contract to the Regional Corridor Constructors (RCC Team – led by the Skanska/Traylor JV) to build the L.A. Regional Connector Transit Corridor, a 1.9-mile underground light-rail system connecting the Metro Gold Line to the 7th Street/Metro Center Station. It includes three new stations, all cut-and-cover braced excavations. It will create a direct connection between Azusa and Long Beach and between East Los Angeles and Santa Monica.