

# STRUCTURES

DIVISION



## GEOTECHNICAL CONSTRUCTION SERVICES

### ECMS #92147 – Philadelphia County SR 611 – Section CRH

**Location:**

Philadelphia County, SR 611- Broad Street

**H&K Company:**

Structures Division

**Client:**

Loftus Corporation, Inc.



**Owner:**

Pennsylvania Department of Transportation

**Services Included:**

- Micropiles

**Additional Project Features:**

- 50 EA (1,764 LF) 7" O.D. – Micropiles

**Project Description:**

This project was the replacement of a five-span bridge on Broad Street (SR 611) over a Loading Dock in center city Philadelphia. The project included staged reconstruction of the bridge structure as well as approach pavement reconstruction. The bridge was situated between two high rise buildings, one of which is the new Philadelphia Police Department headquarters. It was also located directly above SEPTA's underground Broad Street line. Having to work around numerous above and below grade utilities (and a subway tunnel) that could not be relocated or interrupted, we successfully drilled the foundation micropiles for the new bridge piers in four mobilizations to meet the tight project schedule. Additionally, testing in the above constraints and within the project schedule was equally as challenging; using our test frame, two tension load verification tests were performed to verify the micropile capacities.

