

EXCAVATION SUPPORT SYSTEMS



CHILDREN'S HOSPITAL OF PHILADELPHIA SOUTH CAMPUS PROJECT – PHASE 1

For construction of the Children's Hospital South Campus Project, Peirce Engineering, Inc. designed the required temporary earth and rock support systems for a building excavation up to 72 feet deep along Civic Center Boulevard, the South Access Road, and existing Pennsylvania Hall. Believed to have the city's deepest-ever building excavation, this project utilized a combination of drilled-in soldier beams, tieback anchors, and timber lagging, along with shotcreted soil nail walls and rock bolts. A later implosion for the demolition of immediately-adjacent Pennsylvania Hall had no effect on the soil nail wall or on a pre-existing, tiedback, soldier beam and lagging wall.

OWNER:

Children's Hospital of Philadelphia
Philadelphia, Pennsylvania

CONSTRUCTION MANAGER:

Turner Construction Company
Philadelphia, Pennsylvania

EXCAVATION & SHORING CONTRACTOR:

A. P. Construction, Inc.
Blackwood, New Jersey



CIVIL - CONSTRUCTION ENGINEERING

Design of Earth Retention Systems,
Shoring, Bracing, Ground Anchors,
Cofferdams, Underpinning,
Soil Nailing, Micro-Piles,
Static Pile Load Tests

Temporary & Permanent Applications

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