

MUSC Infrastructure Project
Client: Medical University of South Carolina

Construction Manager: Brasfield, Gorrie, Kahn, and Southern Management JV
Scope: Vault excavations with Steel Sheet piling, Trench excavation and bracing with Steel Sheet piles. Construction of pile caps, five reinforced concrete structures.
Installation of 96" tunnel.

Value: \$3,200,000

A brand new hospital facility project with several sub projects on a site with challenging geotechnical conditions. First, the owner requested that the tunnel be installed using a boring machine with an articulated steering head.

After reviewing the site conditions and the shallow cover over the tunnel, which was under a critical road artery into the hospital zone, Triad determined that the articulating machine method would not succeed. The ground conditions were soft, wet, very weak silts and sands. Triad proposed and successfully installed the 96" tunnel by undertaking one of the largest diameter pipe ramming installations in the United States.

There was less than eight feet of cover over the tunnel. Settlement points were installed along the crossing. These were monitored as the ramming progressed. Upon completion, no settlement occurred.

