

# MORETRENCH

## *Dewatering*



## *Design/Build Dewatering Program for the Brigantine Connector, Atlantic City, NJ*

### **Keeping things level.**

Construction of the 3000 foot long cut and cover tunnel section of this project for NJDOT required significant groundwater lowering for cuts as deep as 40 feet directly along side the Penrose Canal. The presence of widespread organic silt deposits throughout the this area of Atlantic City raised the concern about settlement due to widespread groundwater lowering that would be expected with conventional dewatering in highly permeable soils.

Moretrench worked as a design partner with Yonkers / Granite, the general contractor, and developed a combined excavation support and dewatering scheme to provide a dry excavation and minimize off site groundwater lowering. Moretrench installed a system of 100 deep wells within the tight interlocking steel sheeting that was driven to a 60-foot depth to provide a partial groundwater cut-off. Moretrench's dewatering system provided dry sub grade down to elevation -30 for a period of 16 months.

This project was completed with no interruption in groundwater lowering or subsequent excavation and structural work. No settlement was experienced.



*The Atlantic City Brigantine Connector cut and cover tunnel section was excavated parallel to the Penrose Canal to a depth 30 feet below sea level.*

### **Contact Information:**



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**MORETRENCH**

*...since 1931.*