

# *Ohio Turnpike/Interstate 77/ S.R. 21 Interchange Summit/Cuyahoga Counties, Ohio*

## ***Project Description***

Pro Geotech, Inc. (PGI) was retained by the Ohio Turnpike Commission (OTC) to provide geotechnical engineering, construction monitoring, and material testing services for the design and construction of the Ohio Turnpike/I-77/S.R. 21 Interchange. The project plan called for reconstructing the existing Gate 11/ S.R. 21 Interchange as well as constructing a new I-77/I-80 Interchange connecting to the Gate 11 Toll Plaza. Design of the interchanges was performed by Burgess & Niple, Ltd. who retained PGI to provide geotechnical engineering services for the project. PGI provided geotechnical exploration services for the design of four new bridges, exit and entrance ramps, new temporary and permanent toll plaza, approximately two miles of third lane widening. PGI also provided on-site representatives for the majority of the construction operations. Our personnel responsible for oversight of cut and fill operations, embankment placement, excavation and soil drying operations, soil compaction and sealing as well as suggesting solutions for overcoming excessive moisture problems due to an excessively wet construction season. These solutions included the use of different types of fill materials and lime stabilization of soils. Our personnel were responsible for performing QA/QC verification on placement for the newly poured concrete for the new toll plaza, for a temporary toll plaza, for a new bridge spanning SR 21, and for an entrance road to a parking lot. Approximate quantities of 432,500 cubic yards of soil and 73,500 square yards of concrete were placed for this project. Responsibilities included attending project meetings, performing inspection on an "as needed" basis, performing compaction testing, concrete field and laboratory testing, and completing daily field reports.

### **Client:**

Ohio Turnpike Commission  
682 Prospect Street  
Berea, OH 44017  
Burgess & Niple, Ltd.

### **Contact:**

Mr. Dominic Ferritto for OTC  
(440) 234-2081

### **Performance Period:**

March 2000 to January 2001

### **Project Costs:**

\$275,000 (Fee)

### **PGI's Role:**

Geotechnical Exploration  
Construction Monitoring  
Material Testing



Pro Geotech, Inc