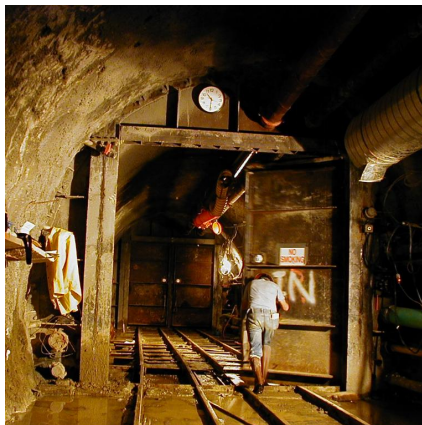


## Orme Street Combined Trunk Relief Sewer - Phase 3 Atlanta, GA



### PROJECT OVERVIEW AND CHALLENGES

Bradshaw Construction Corporation built the first ever NATM tunnel that utilized compressed air in North America. The project involved the connection of two existing 7' diameter combined sewers to a new 12' diameter relief sewer. Connections were made at seven locations, along a 2,300' alignment in downtown Atlanta. The alignment was enveloped by adjacent structures and utilities. The project was constructed below the groundwater table through compressible residual soil, rock, and mixed face conditions. Our team employed a myriad of construction techniques, including compressed air, ground water recharge, and jet grouting. Several design and alignment changes and accommodations for existing utilities were made during construction.



### PROJECT INFORMATION - 361

#### OWNER:

City of Atlanta  
Calvin Woolson  
Construction Manager  
770.480.0111  
cwoolson@ch2m.com

#### ENGINEER:

WL Jordan  
Ken Denton  
678.420.5400  
kdenton@hdrinc.com

#### CONTRACTOR:

Bradshaw Construction Company

#### CONTRACT VALUE:

\$22,950,000

#### COMPLETION DATE:

2/28/2002

#### GEOLOGY:

Rock, Residual Soils, Partially  
Weathered Rock

#### EXCAVATION METHOD:

SEM

#### MINING DIMENSIONS:

2,300' x 14' x 16'

#### FINAL LINING:

11' x 12' Cast-in-Place Horseshoe  
Shaped Pipeline

#### FOR MORE INFORMATION:

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410.970.8300  
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Refer to Project 361