

# Project Profile: SHAFT CONSTRUCTION

## Irwin Creek Relief Sewers Phase 2 Charlotte, NC



### PROJECT OVERVIEW AND CHALLENGES

Bradshaw constructed 24 shafts that were 20 to 50 feet in depth of soldier pile and wood lagging. Rib and board was used above the water table and liner plate for below. 4700 linear feet of 60-102 inch tunnels for 36 inch and 54 inch ductile iron pipe. 900-1300 linear feet included curves by tunnel boring machine with liner plate under NSR Railroad. Drill & Blast.



### PROJECT INFORMATION - 432

#### OWNER:

Charlotte-Mecklenburg  
Utility Department  
Julie McLelland  
(704) 391-5126

#### ENGINEER:

CDM  
Leslie Samal  
(704) 342-4546

#### CONTRACTOR:

Rockdale Pipeline, Inc.

#### COMPLETION DATE:

5/31/2007

#### GEOLOGY:

Clay, Sand, Silt, Rock

#### EXCAVATION METHOD:

Vibratory Pile Hammer

#### MINING DIMENSIONS:

(1) 50' x 15' x 26VF & (22) 12'-26' x 24VF-42VF

#### FINAL LINING:

N/A

#### FOR MORE INFORMATION:

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Refer to Project 432