

## Sanitary Sewer 24" S1 @ I-277 Sewer @ I-277 to Whisnant Charlotte, NC



### PROJECT OVERVIEW AND CHALLENGES

Bradshaw completed tunneling on a project for improvements on the Express Lanes that covers nearly 26 miles of the I-77 corridor just north of Charlotte, including the conversion of existing high occupancy vehicles to the Express Lanes and the construction of new express lanes and two major interchanges. The tunneling work consisted of four microtunnel drives totaling 1,505 LF of 60" steel casing for 24" ductile iron gravity sewer line grouted within the jacked casing. Subsurface conditions encountered were a mixed face of clay and rock.



### PROJECT INFORMATION - 579

**OWNER:**

I-77 Mobility Partners  
Sugar Creek Construction, LLC  
980-337-2400

**ENGINEER:**

Hinde Engineering  
707-814-4407  
khinde@hineengineering.com

**CONTRACTOR:**

Sanders Utility Construction Co., Inc.

**COMPLETION DATE:**

1/11/2019

**GEOLOGY:**

Fine Clay, Hard Rock

**EXCAVATION METHOD:**

Herrenknecht AVN-1200 MTBM

**MINING DIMENSIONS:**

535', 360', 330', 280' x 60" Ø

**FINAL LINING:**

24" Ductile Iron Pipe  
18" Ductile Iron Pipe

**FOR MORE INFORMATION:**

Mike Wanhatalo, Project Manager  
410-970-8300  
mwanhatalo@bradshawcc.com  
Refer to Project 579