

River Road Interceptor Prospect, KY



PROJECT OVERVIEW AND CHALLENGES

Bradshaw Construction completed 1,133 foot microtunnel of 96 inch steel casing in a single drive for the Metropolitan Sewer District, located just outside of Louisville, KY. The tunnel was a contractor bid alternate design from (6) separate tunnels to (1) cost-effective large, long tunnel. A 42 inch fiberglass sewer and 30 inch PVC force main were installed within the casing and grout backfilled in place. The microtunnel was mined through clays and silts well below the water table as it crossed a major roadway and twice under Harrod's Creek. Project challenges included unexpected fat clays, floatation prevention beneath Harrod's Creek, site flooding, and underground surveying. The complexities of long microtunnel drives can be overcome with proper planning.



PROJECT INFORMATION - 527

OWNER:

Louisville & Jefferson County
Metropolitan Sewer District
John Loechle
502-540-6209
john.loechle@louisvillemsd.org

ENGINEER:

Jacobi, Toombs & Lanz, Inc.
Michael Harris
502-636-1835

CONTRACTOR:

Flynn Brothers Contracting, Inc.

COMPLETION DATE:

10/29/2013

GEOLOGY:

Clay & Silts

EXCAVATION METHOD:

RASA DH-1900 MTBM

MINING DIMENSIONS:

1,133' x 96"Ø

FINAL LINING:

30" Polyvinyl Chloride Pipe
42" Fiberglass Reinforced Pipe

FOR MORE INFORMATION:

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Refer to Project 527