Project Profile: MICROTUNNELING

Harbor Island FM
Tampa, FL

PROJECT OVERVIEW AND CHALLENGES

Bradshaw Construction installed one launch shaft (34'x34'x27VF) and one recovery shaft (25'x25'x21VF) to facilitate the installation of twin microtunnel drives totaling 1,220 LF utilizing 73.5" steel casing for 48" and 54" Ductile Iron FM in Tampa, FL. The tunnels were installed below the water table in subsurface conditions that ranged from limestone to sand and silty clay. The twin tunnels progressed beneath the secured entrance into the Port of Tampa with extensive freight traffic. This location made the MTBM Recovery Shaft operations particularly challenging as it was on active roadways within the Port Gate. Accomplishing this work required extending the twin drives by about 110 LF in order to avoid shutting down the freight egress.

PROJECT INFORMATION - 615

OWNER:
City of Tampa
Charlie Lynch
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ENGINEER:
Wade Trim
Tom Wilson
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CONTRACTOR:
Kimmins Contracting Corporation

COMPLETION DATE:
12/23/2021

GEOLOGY:
Weathered limestone, sand, clay

EXCAVATION METHOD:
Microtunneling

MINING DIMENSIONS:
1220' x 73.5" Ø

FINAL LINING:
48" DIP
54" DIP

FOR MORE INFORMATION:
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Refer to Project 615