



# Superior Stones CSO Improvement Project

**LOCATION:** Cleveland, OH

**OWNER:** Northeast Ohio Regional Sewer District

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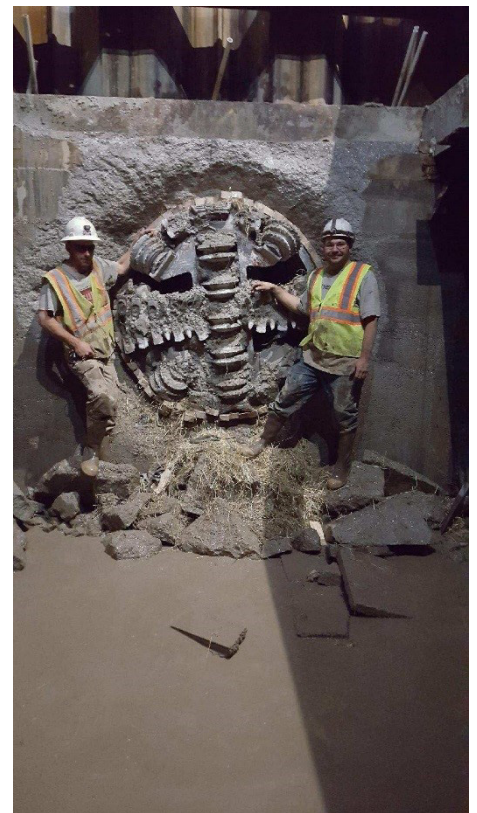
## PROJECT PROFILE

The Superior-Stones Levee CSO Improvement (SSCI, the Project) is part of a new sanitary sewer system being constructed by the Northeast Ohio Regional Sewer District (the District) in the historic Flats area of City of Cleveland. The alignment is surrounding by a network of century old utilities and remnants of past transportation infrastructure.

The alignment was selected to mitigate risk by attempting to maximize clearance from underground utilities, abandoned infrastructure and historic buildings within the tunnel zone of influence. The 765-ft run included a contractor-designed curved alignment and is at a 5.5 percent slope.

SEI employed the use of their SL60 MTBM 62.5" OD) equipped with a mixed-face disc cutter head to handle the stiff silty clay soils. The MTBM and pipe were advanced with an 800-ton capacity jacking frame. All microtunneling functions were remotely operated from the control container, and a hydraulic power pack was utilized for supplemental steering and auxiliary power if necessary.

The 48-in. (1,200 mm), 765-lf. (233m) microtunnel was completed in just 14 days of mining while abiding by a 12-hour a day construction ordinance. The Contractor averaged 49-foot of pipe installation per day with the best day consisting of the installation of 80-feet. The average jacking force during installation was 101-tons with the highest jacking force of 258-tons.



**TOTAL VALUE OF CONTRACT:**  
\$2,035,000

**COMPLETION TIMELINE:**  
MARCH 2017 - OCTOBER 2017

**COMPLETED AS:**  
SUB CONTRACTOR