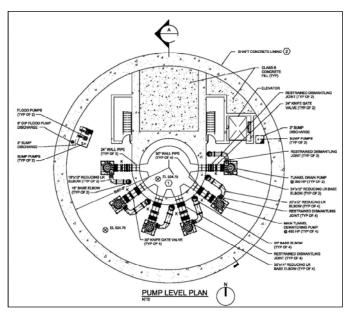
Regional Sewer District

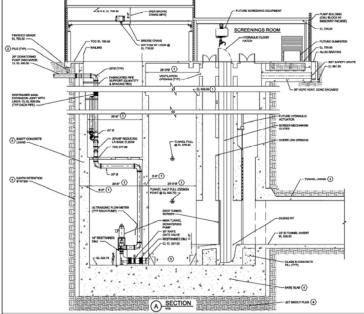
DESCRIPTION

The Southerly Tunnel Dewatering Pump Station project (STDPS) is associated with the Southerly Storage Tunnel project (SOT), and is part of Project Clean Lake, a \$3B, 25-year program NEORSD began in 2011 designed to meet Clean Water Act standards and address water quality issues. STDPS is downstream and connected to the SOT, which is the 6th of seven new large diameter tunnels and other projects that the NEORSD will use to reduce the 4.5 Billion Gallons of wet weather combined sewer overflows (CSOs) released into Lake Erie and its tributaries in the Greater Cleveland area.

The STDPS is planned to be a dry pit pump station with a firm dewatering rate of 56 MGD. With its six tunnel drain pumps in the 175-ft deep, 80-ft diameter station, it will send CSOs stored in SOT to the existing

treatment plant via the nearby Southwest Interceptor. An advanced planning-level (20%) design configuration of the pump station shaft is





Southerly Tunnel Dewatering Pump Station: Pump Level Plan (left) and Vertical Section (above)

 STDPS Project Schedule

 Year

 Project Phase
 2021
 2022
 2023
 2024

 2027
 2028
 2029

 Design
 Image: Image of the state of the state

CONSTRUCTION COST: \$29.8 Million (Est.)

Design Start Q2 2021, Construction Award ex-

shown in the figures. The expected project schedule is shown at right.

PROJECT BENEFITS

As a system, SOT and STDPS will control overflows at 6 permitted CSO locations along the Cuyahoga River and will reduce CSO volumes discharged into the river by 750 million gallons each year, providing:

- Improved water quality in the Cuyahoga River;
- A reduction in public health risks associated with CSOs;
 A cleaner Lake Erie for drinking water, boating, beachgoing, and other recreational purposes; and
- Wet weather flood relief mitigation.