

# DC-02 & DC-03 SANITARY RELIEF PHASE III & IV



MSD Project Clear is the Metropolitan St. Louis Sewer District's (MSD) initiative to improve water quality and alleviate many wastewater concerns throughout St. Louis City and County. MSD Project Clear is a long-term effort by MSD, undertaken as part of an agreement with the U.S. Environmental Protection Agency and the Missouri Coalition for the Environment. MSD Project Clear will invest billions of dollars over a generation in planning, designing, and building community rainscaping, system improvements, and an ambitious program of maintenance and repair. At times of heavy wet weather, the sewer system of St. Louis City and much of St. Louis County can be overwhelmed, causing overflows into area rivers and streams. Like many cities throughout the United States, this program is designed to reduce the occurrence of sewer overflows that result from older wastewater collection and treatment systems during heavy storms. MSD Project Clear has divided this multi-year, multi-billion dollar investment into numerous projects that will be designed and constructed over the next several decades.

The purpose of the DC-02 & DC-03 Sanitary Relief project is to provide additional sanitary sewer conveyance capacity in the Deer Creek watershed. Once this additional conveyance is in place, seven constructed sanitary sewer overflows, which currently exist along Deer Creek, will be removed and the discharge of sewage from these overflows into the streams will be eliminated.

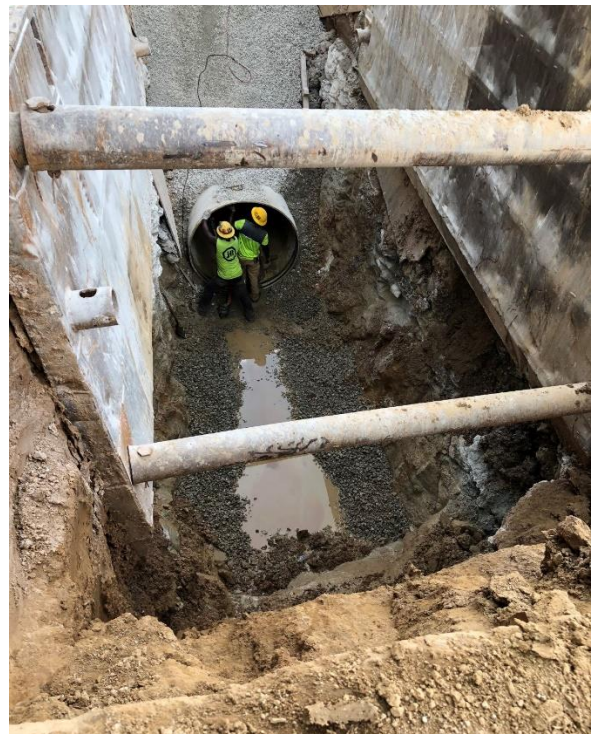
## SANITARY SEWER OVERFLOWS (SSO) – WHAT ARE THEY?

Sanitary sewer systems collect and transport domestic, commercial, and industrial wastewater and limited amounts of stormwater and infiltrated ground water to treatment facilities for appropriate treatment. Occasionally, sanitary sewers will release raw sewage. These types of releases are called sanitary sewer overflows (SSOs). SSOs can contaminate our waters, causing serious water quality problems, and back-up into homes, causing property damage and threatening public health.

During dry weather, the existing sanitary sewer systems serving the Deer Creek Watershed can handle the wastewater collected and carry it to the treatment plant. However, during heavy rain or significant snowmelt the stormwater and groundwater that infiltrate or flow into the sewer system may exceed the capacity of the sewer system causing the discharge of the excess sewage into an adjacent stream or other waterway.

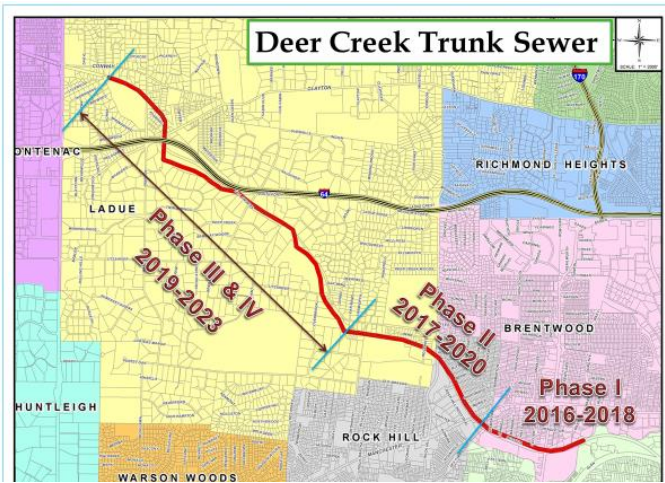
## DC-02 & DC-03 SANITARY RELIEF PROJECT

This project involves construction of a new, larger diameter, trunk sewer beginning near the intersection of Brentwood Boulevard and Manchester Road in Brentwood, where the new sewer will be 78 inches in diameter. The new sewer will be installed through portions of Brentwood, Rock Hill and Ladue and will end near the intersection of Conway Road and Lindbergh Boulevard in Ladue, where the size of the sewer will be 48 inches in diameter. Due to the long length of the project, construction will be accomplished in multiple phases.



## BUILDING THE RELIEF SEWER

Phase I of the project has been completed. Phase II construction began in late summer of 2018 and will continue through spring of 2021. The Metropolitan St. Louis Sewer District (MSD) awarded the \$43.6 million construction contract for Phase III & IV to J.H. Berra construction in July 2019. Construction began in fall 2019 and is scheduled to be completed in spring of 2024. As of December 1, 2020, construction is 37% complete.



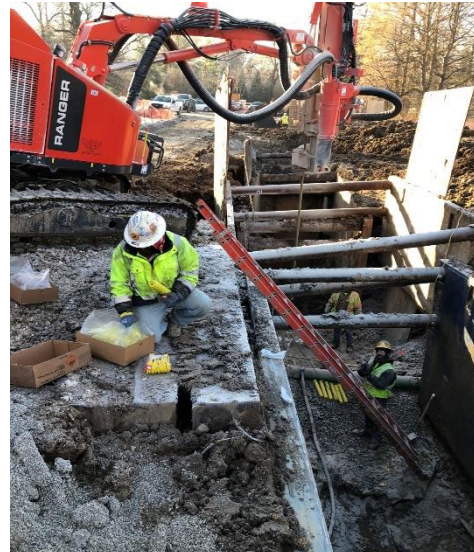
## TUNNELING

Portions of the sewer will be installed by tunneling. The sewer will be installed by tunnel where it passes beneath Litzsinger Road, Clayton Road, Interstate 64, Foxboro Road and Warson Road to minimize disruption to traffic. The sewer will also be installed by tunnel areas where standard trench excavation methods are not feasible. A tunnel boring machine, pictured below, will be used to excavate the tunnels.



## OPEN CUT CONSTRUCTION

The remainder of the sewer will be installed by excavating a trench from the surface. The sewer pipe is located approximately 25 feet below the ground surface. In some areas, limestone bedrock is present within a few feet of the ground surface, so a trench must be excavated in the rock to accept the pipe. The construction contractor currently plans to use a combination of drilling and blasting (pictured below) and hydraulic breakers to remove the rock from the trench in the areas generally south and east of Interstate 64.



Property owners, within 1,000 feet of the proposed blasting operations will be offered an inspection of their property to document the condition before blasting occurs. Each blast event will be monitored to verify that vibration and air overpressure levels are within safe limits established by the Missouri Department for Public Safety and St. Louis County.

## WHO TO CONTACT

Questions or concerns about construction should be directed to Gary Vandelloo at (314) 802-7039 during normal business hours between 6:00 AM and 3:30 PM. If there is an emergency, please call 911!

For more information on the Project Clear Program, please visit <https://MSDprojectclear.org/>