

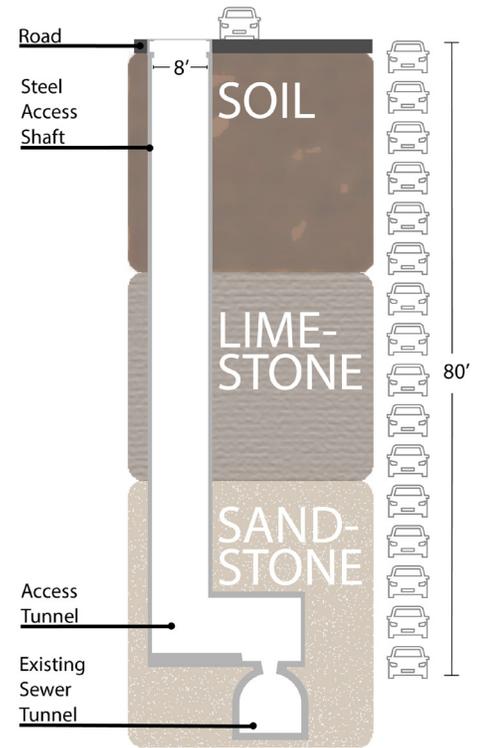
4th Street Tunnel Repair Project

Project Description

Metropolitan Council Environmental Services (MCES), operator of the metro-area wastewater collection and treatment system, will be constructing two access shafts on 4th Street, just east of Hennepin and Marquette Avenues. The shafts will be used to make repairs to the existing sewer tunnel beneath 4th Street in downtown Minneapolis. This work is being done in advance of the City of Minneapolis' 4th Street Reconstruction Project.

The sandstone tunnel was constructed in 1885 and is more than 80 feet deep. After construction, a sewer pipe was installed inside the tunnel. An empty space was left between the top of the pipe and the top of the tunnel. The top of the tunnel has been deteriorating, increasing the height of the empty space, and potentially damaging the pipe as sandstone pieces fall. Repair work will include stabilizing the walls of the tunnel, removing debris from the top of the pipe, rehabilitating the pipe, then filling the space with grout.

The overall process will be time-consuming due to the depth of the tunnel and access shafts; the length of tunnel being repaired (1/4 mile); the volume of debris to be removed (2,000 tons); and the tight quarters where the work will be conducted that will require extensive underground hand work.



Access shafts rendering ▶

▼ Project area map



Construction Impacts

Typical impacts related to this type of construction include traffic and pedestrian disruptions; periodic early morning or late night work hours; lights, dust, noise, and vibrations. To minimize construction impacts:

- The access shafts are located on the south side of 4th Street to allow all three existing traffic lanes to be shifted north and remain open.
- Contractor equipment, materials, and work zones will be restricted to 30'x 120' areas enclosed with concrete barriers and screened fencing.
- Pedestrian traffic will be maintained past the work zones.
- Generators will be muffled, vibrations monitored and mitigated as needed, and dust controlled.

Contact Us:

Metropolitan Council
390 Robert St. N.
St. Paul, MN 55101-1805



info@4thStreetTunnelRepair.com



612-352-9774



metrocouncil.org/
sewerconstruction/4thStreetTunnel