

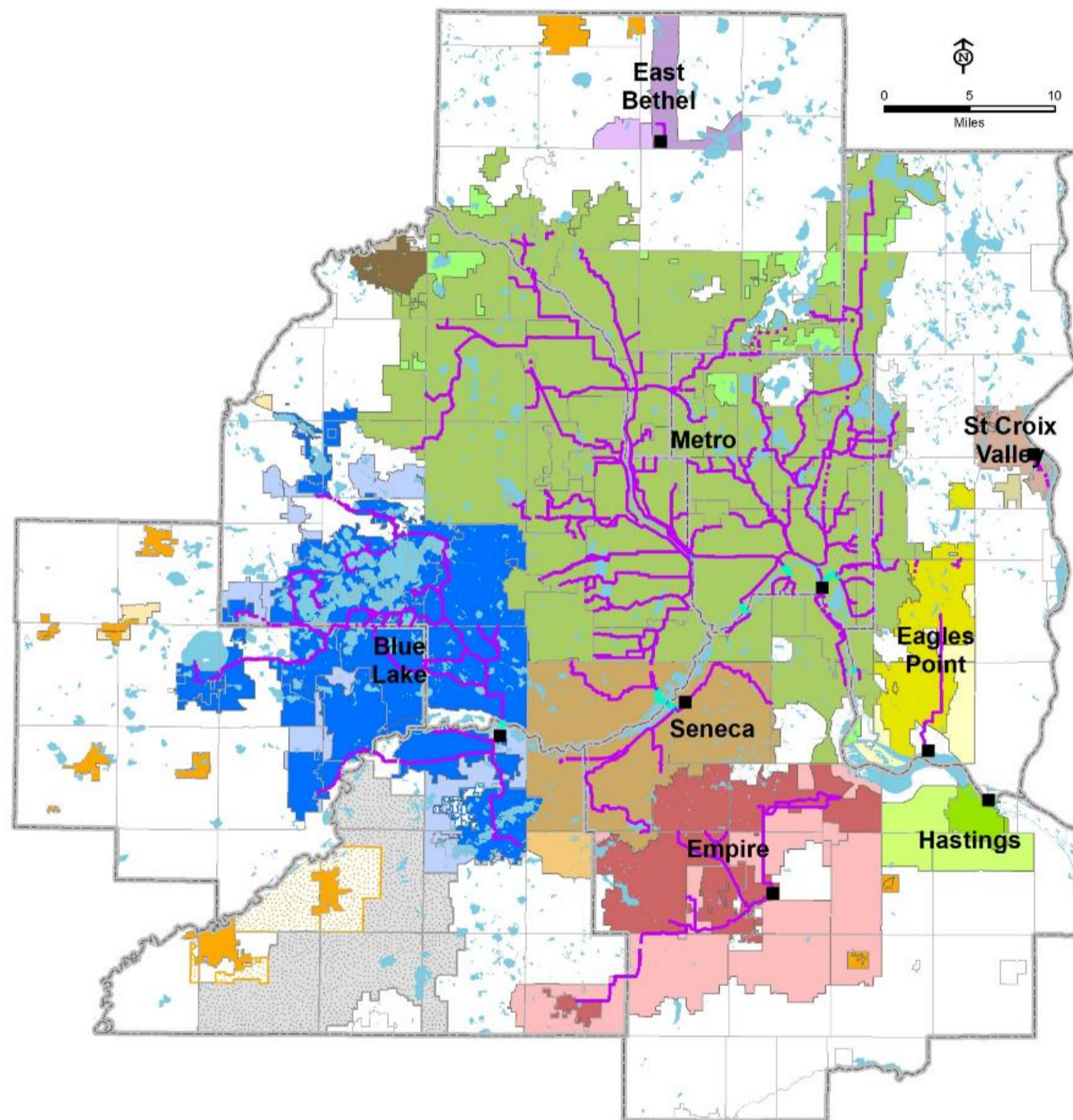
Minnehaha Park Area Regional Sewer Improvements Project: Regulator R04 & 1-MN-344 Tunnel Rehabilitation

Jeannine Clancy, Assistant General Manager, Technical Services
Chad Davison, Project Manager, Interceptor Engineering

Metropolitan Council - July 24, 2019



MCES Wastewater System



Protects
Public Health
and Safety



Protects the
Environment



Fosters the
Economic Growth
of the Region

WHO WE SERVE

7 County Twin Cities Metro Area
110 Communities
2,700,000 + People

OUR FACILITIES

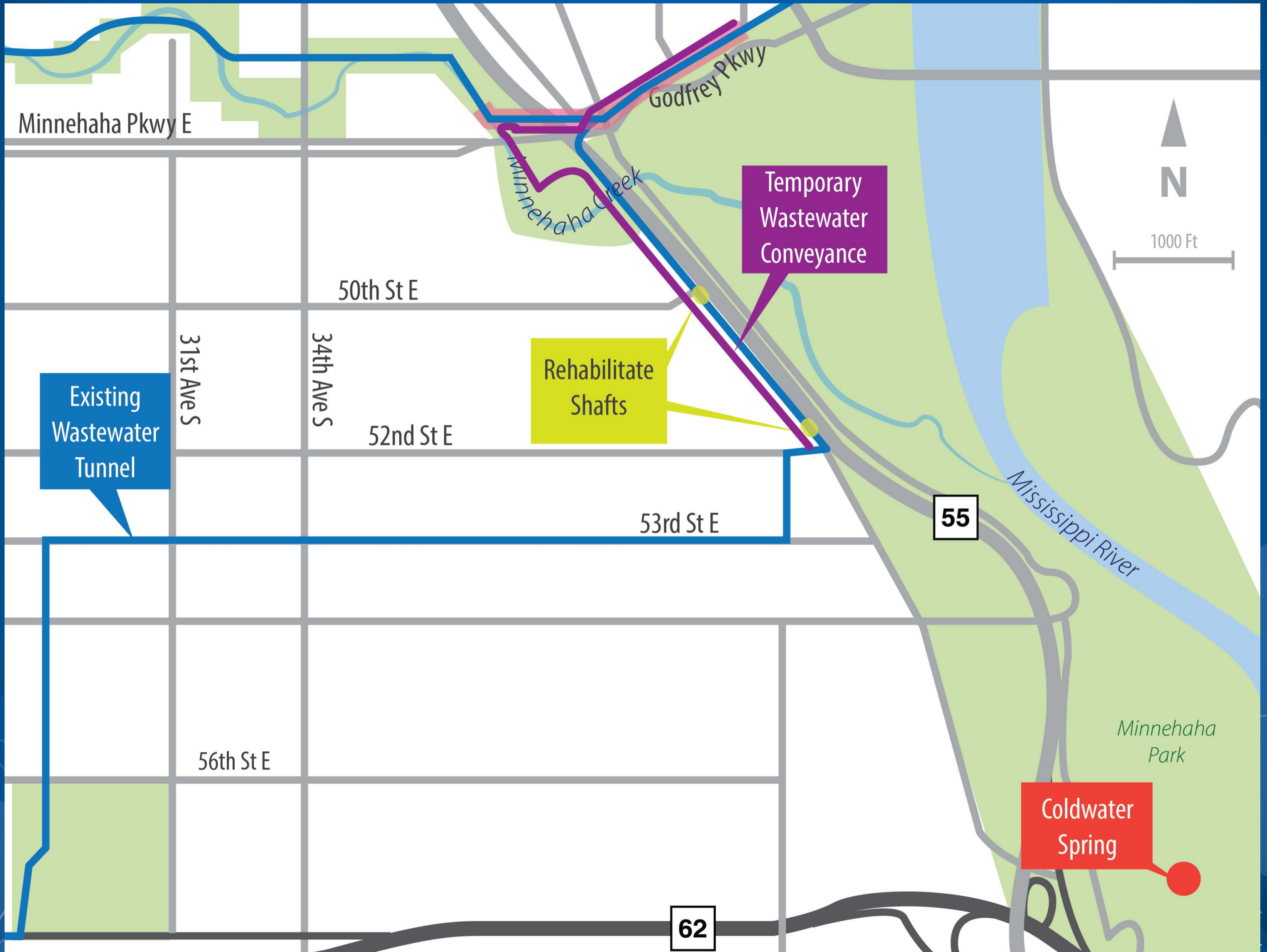
9 Wastewater Treatment Plants
610 Miles of Interceptors
250 Million Gallons Per Day (Avg)

OUR ORGANIZATION

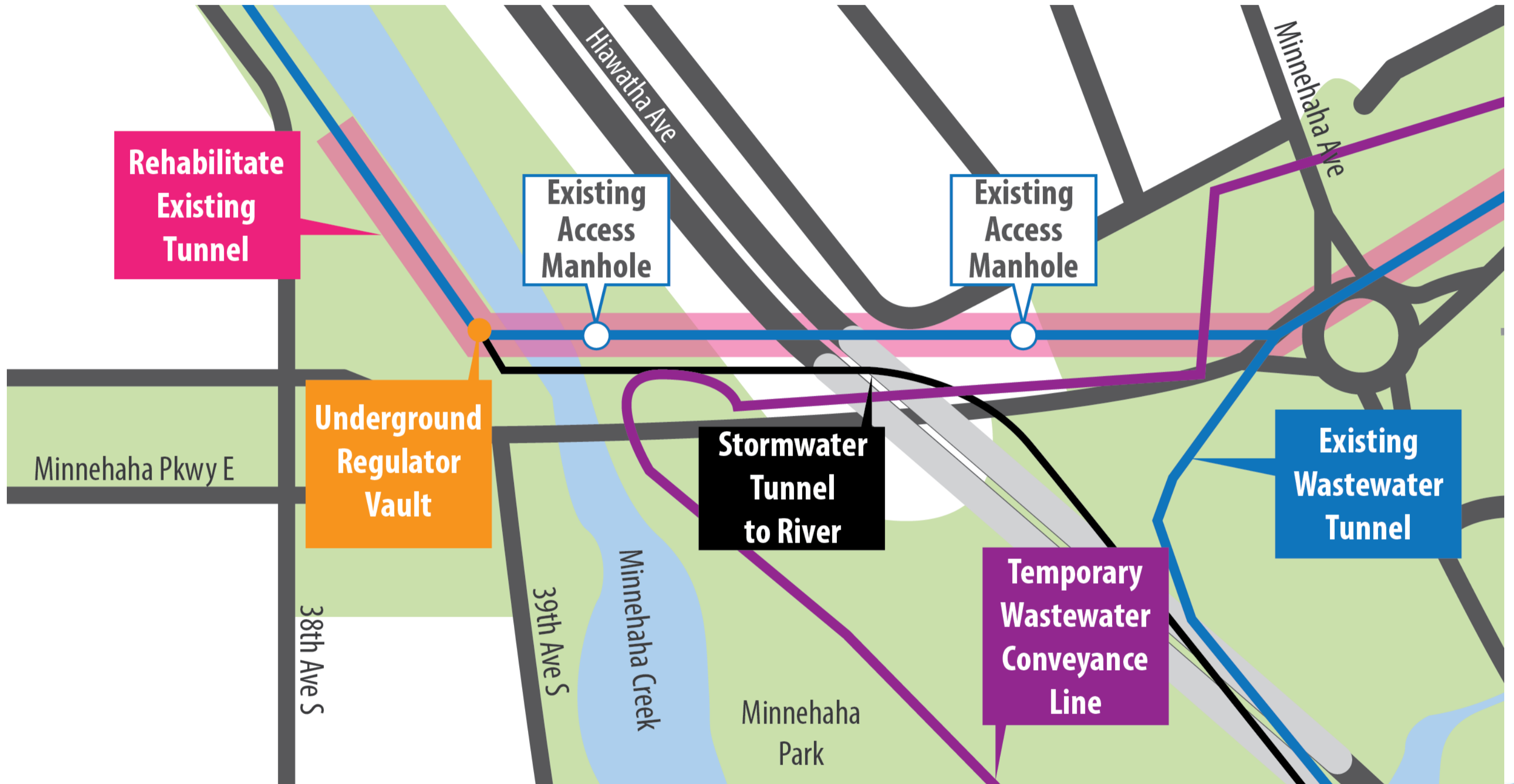
600 + Employees
\$7 Billion In Valued Assets
\$150 Million Annual Capital Program

MCES Serves ~ 50% of the State's Population

Project Area



Project Area



Project Drivers

- Extensive corrosion damage to interceptor and regulator
- Sewer sediment removal to recover system capacity
- Improve controls of Emergency Relief Structure 04
- Improve system reliability

Project History and Public Consultation

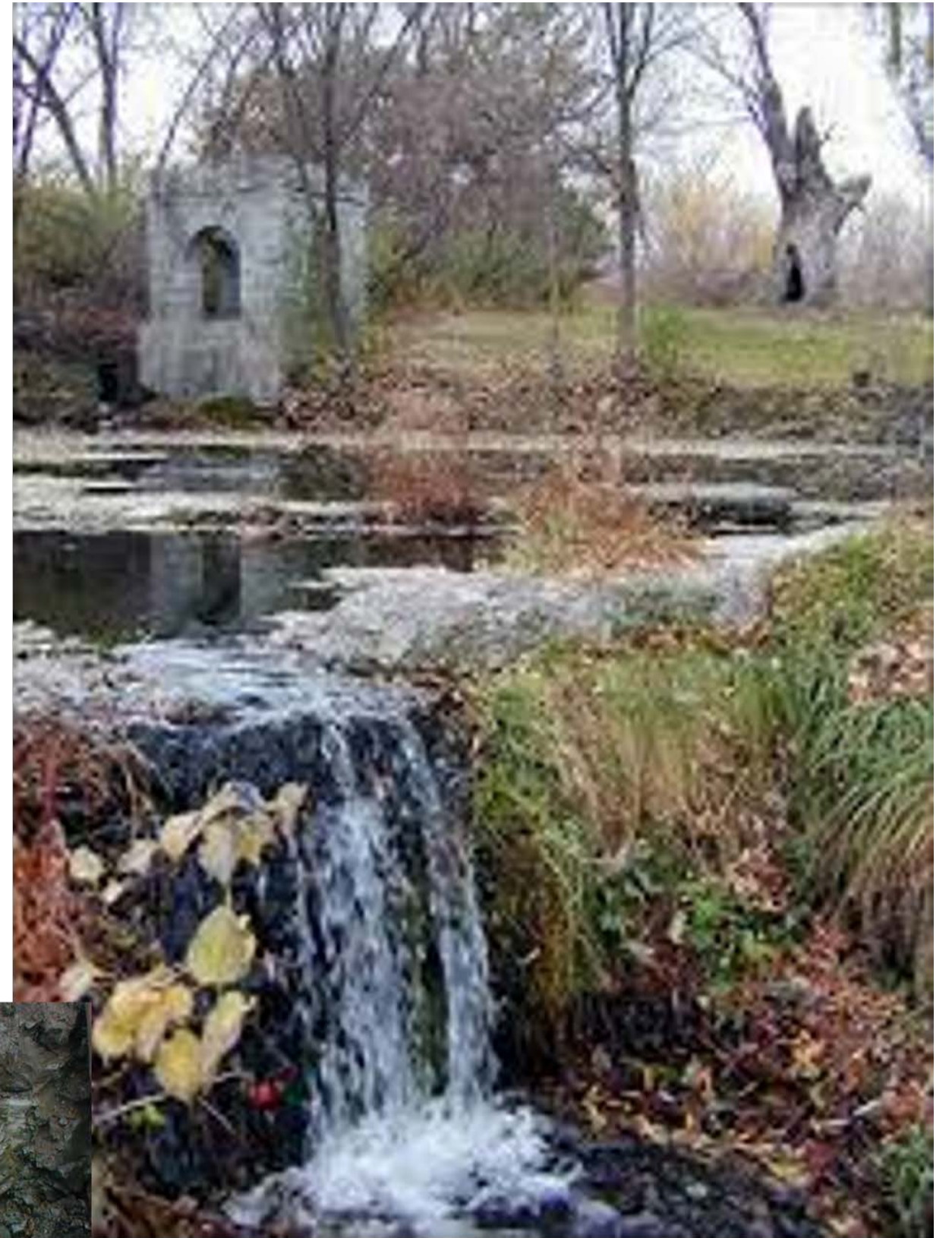
- Facility Plan dated February 2013 identified and recommended a new regulator and new sanitary tunnel
- Public comments received expressed concern that excavation and dewatering of the limestone could impact groundwater flow to Coldwater Spring

Design Goals

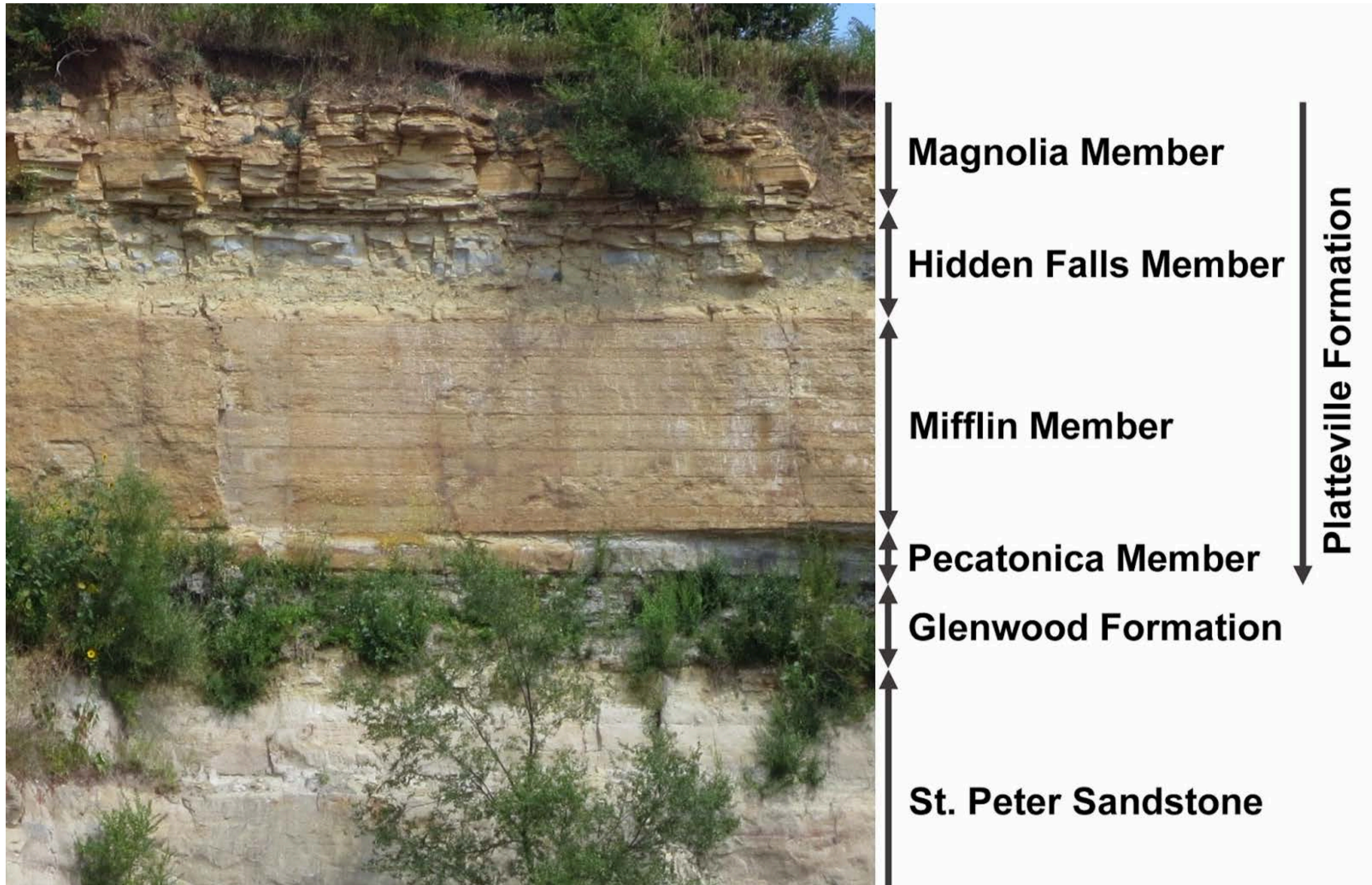
- Avoid impacts to significant cultural, historic and environmental resources
 - Coldwater Spring
 - Minnehaha Creek
 - Minnehaha Falls
 - Longfellow House
- Regional Bike Trail
- Park Access

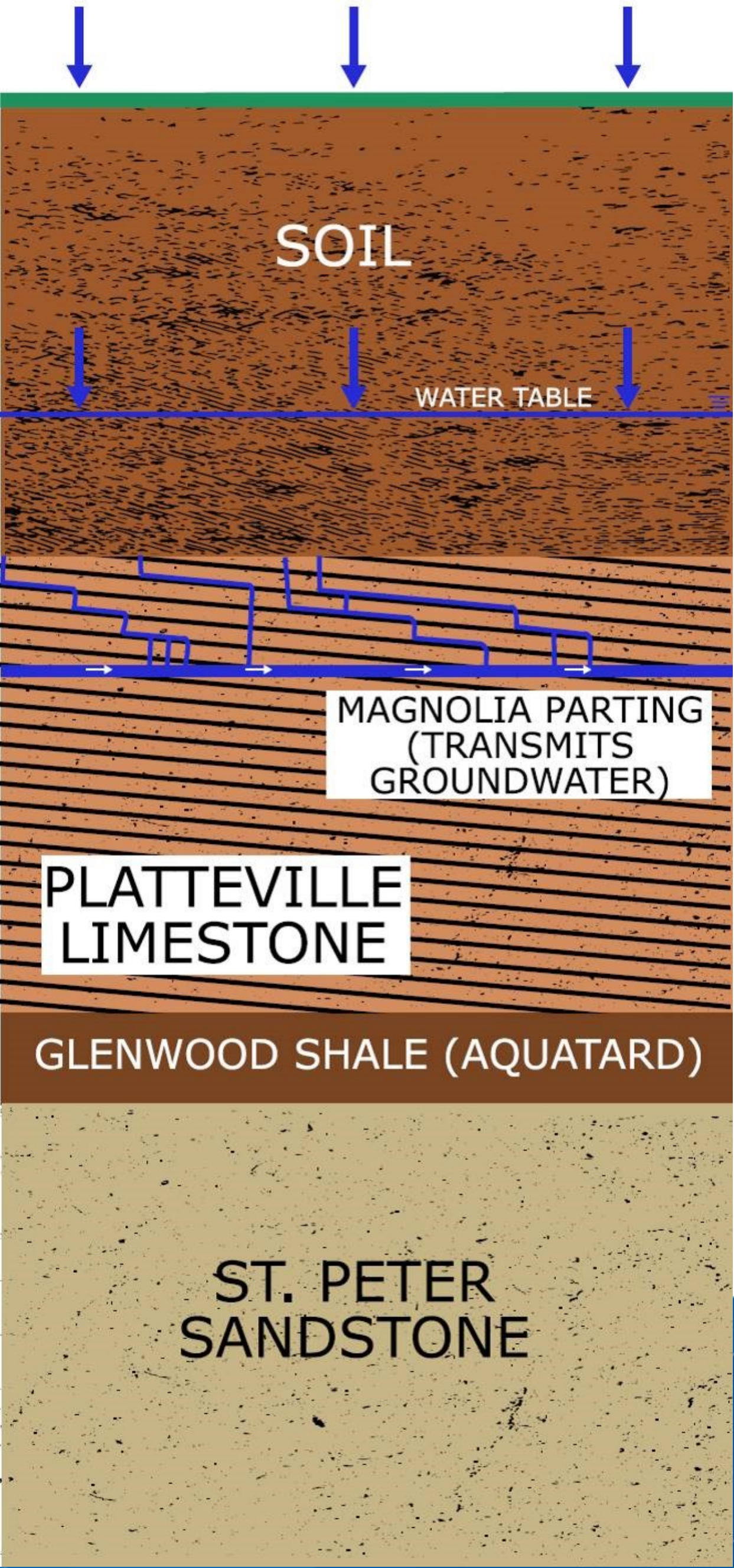
Coldwater Spring

- Located 1.2 miles SE of the project area
- Historically, culturally, and spiritually significant site
- On National Register of Historic Places
- Protected by Federal and State Law



Bluff Edge Along Shepard Rd





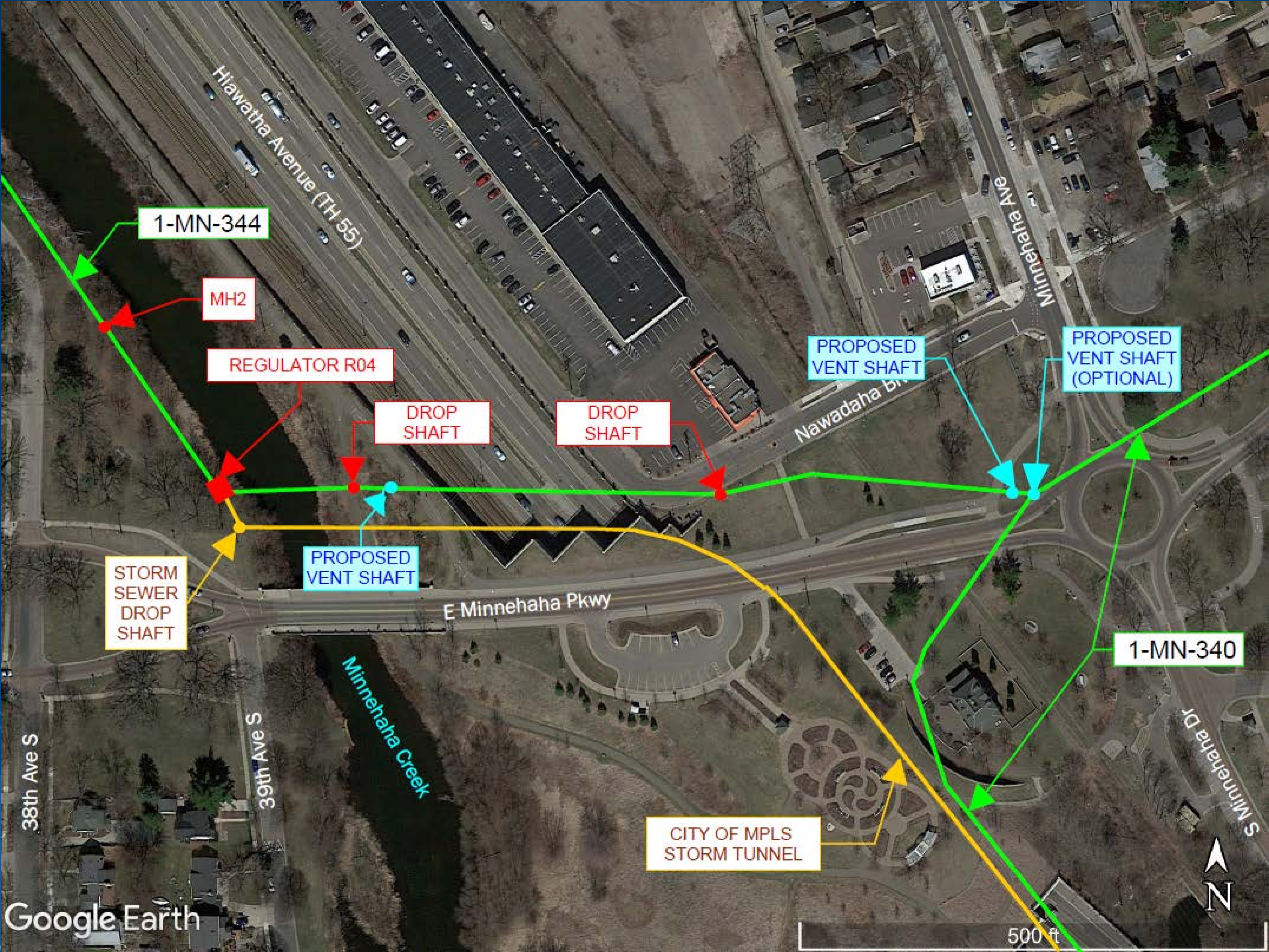
Rehabilitation Project

- Concerns about even minimal impacts resulted in additional analysis of water flows
- Project changed from reconstruction to rehabilitation of existing tunnel and structures
- No dewatering in limestone layer
- MCES is committed to avoiding impacts to Coldwater Spring
- National Park Service will monitor Coldwater Spring water flow Monday-Friday during sewer rehabilitation

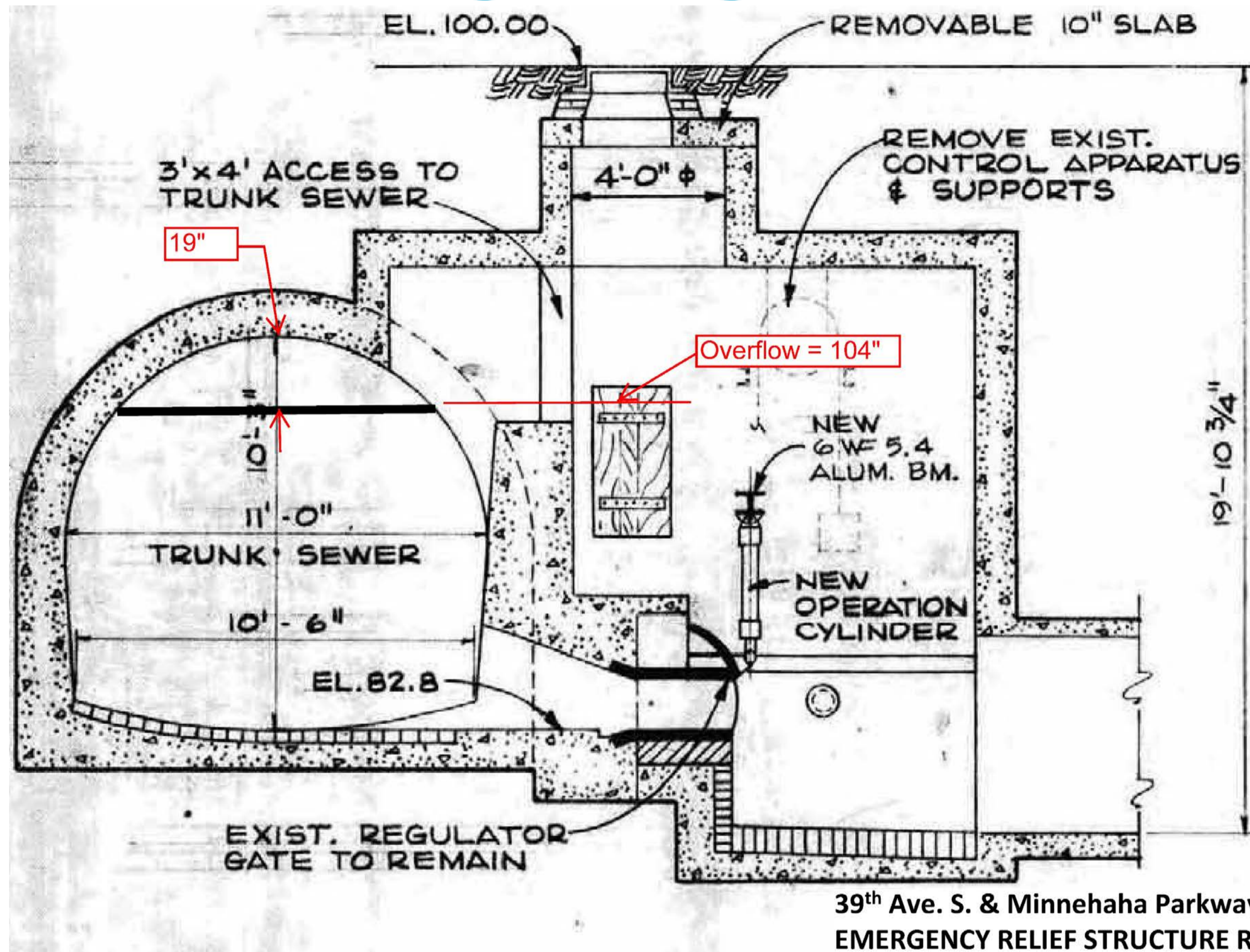
Project Scope

- Tunnel rehabilitation under Minnehaha Creek and Hiawatha Ave
 - Safe construction access through existing shafts
 - Two ventilation shafts for worker safety
- Rehabilitate regulator R04 structure
 - Provisions for future gate if required
- Rehabilitate two drop shafts adjacent to Hiawatha Ave
 - Structural improvements needed to repair corroding maintenance holes
- Clean existing 1-MN-340 interceptor
 - Improve pipe capacity

Regulator R04 & 1-MN-344 Tunnel



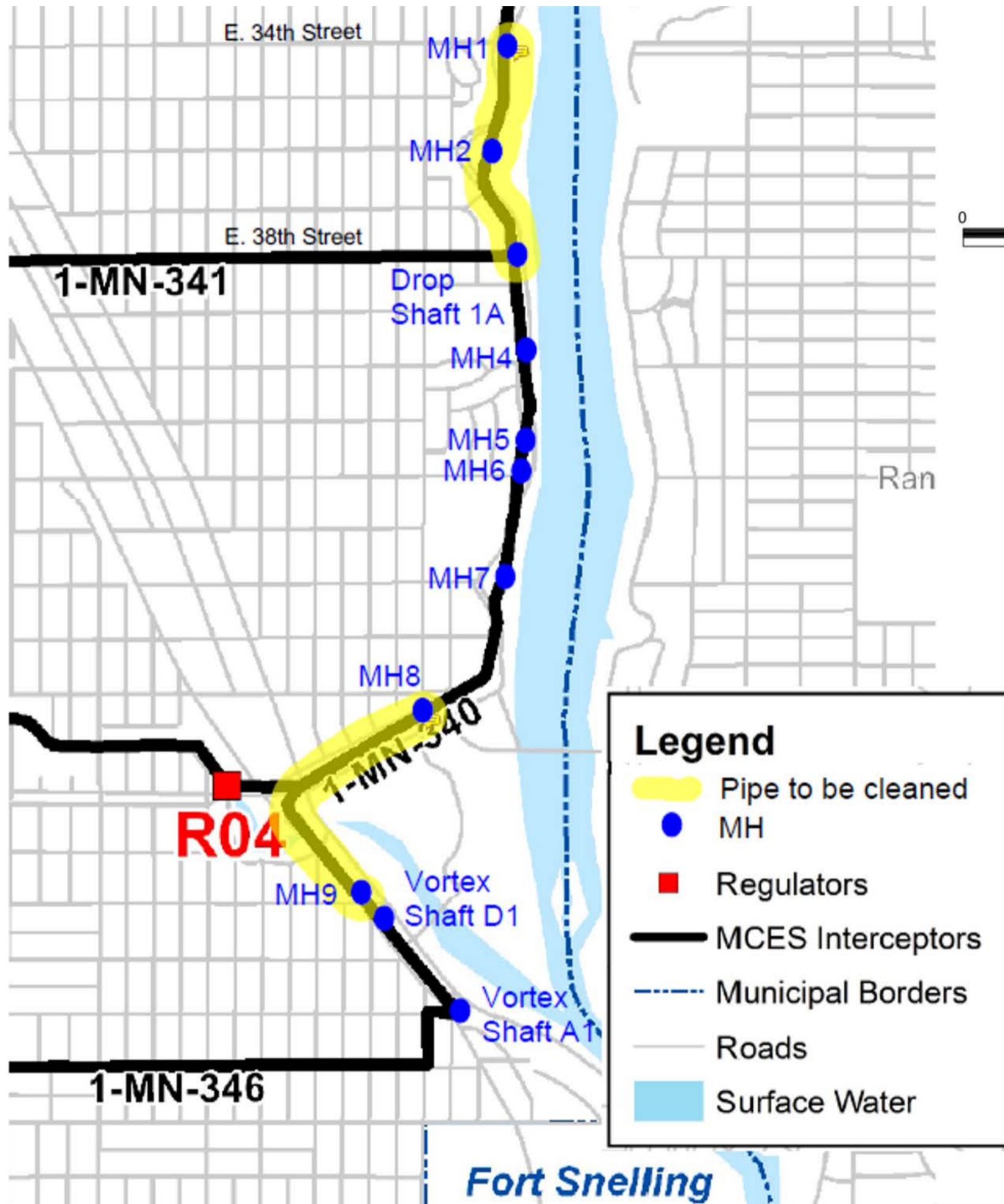
Existing Regulator 04



Vortex Shafts A1 & D1 Locations



1-MN-340 Interceptor Cleaning Locations



Temporary Wastewater Conveyance System



- 24", 30", & 36" diameter (DIA) pipe
- 24 hour security monitoring planned
- Northern temporary conveyance (orange) - 2 year duration
- Southern temporary conveyance (purple) - 1 year duration

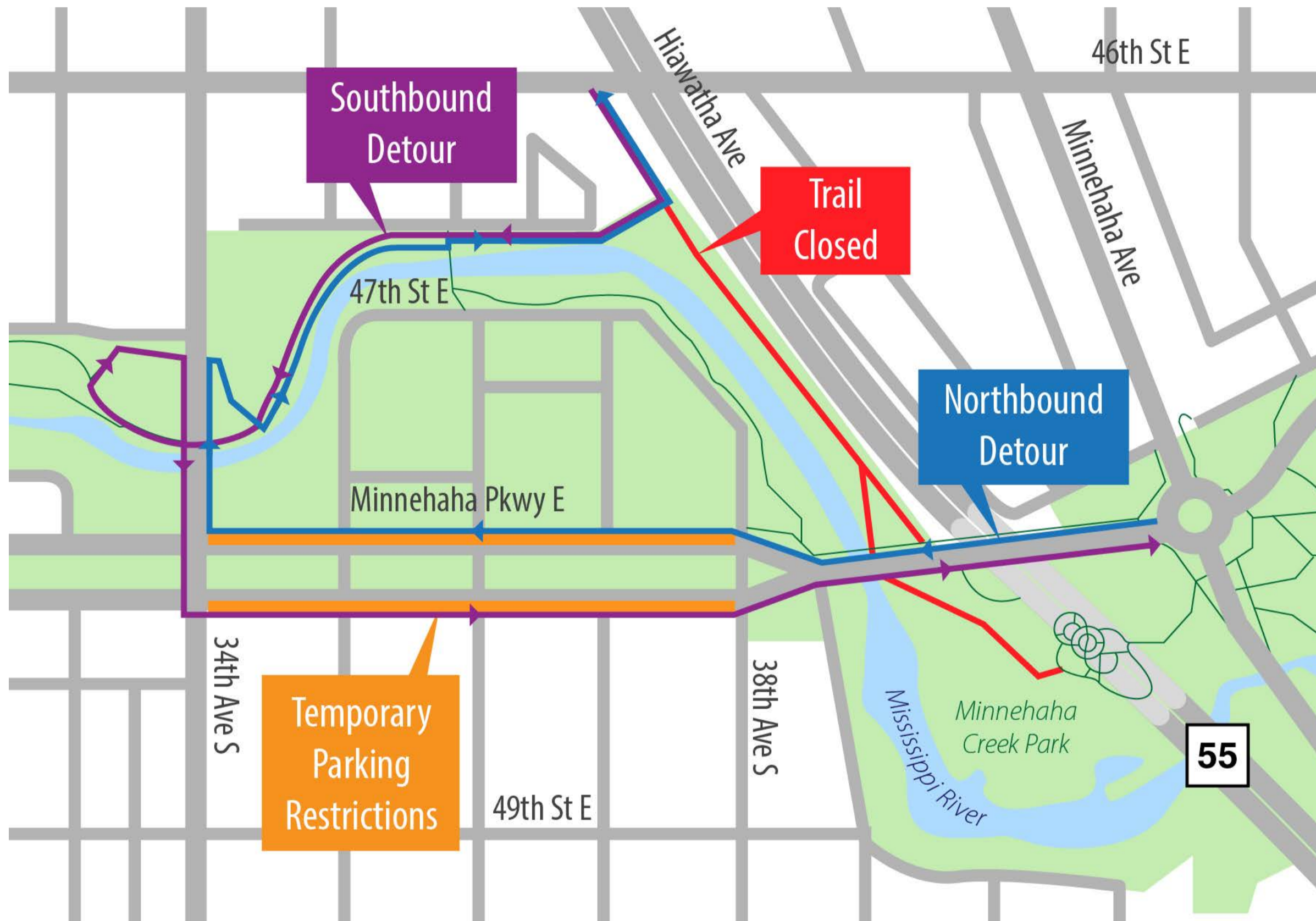
Temporary Wastewater Conveyance System



Traffic Impacts Minimized By Tunneling Under Minnehaha Ave And Cross-streets



Bike Trail Detour for Duration of Project



Tree Removal and Protection



Other Potential Impacts/Mitigation

- Odor – Requirements for contractors in construction specifications
- Appearance – Underground facilities and site restoration
- Noise & dust – Work with contractor, City, and Minneapolis Parks and Recreation Board (MPRB) to minimize
- Haul routes – Work with the City of Minneapolis
- Storm water run-off – Best management practices; Minnehaha Creek Watershed District (MCWD) permit
- Wetlands – Located along Minnehaha Creek buffer

Project Construction Schedule

TASKS	CONTRACT DATES
Bid Phase Activities	March 2019 – May 2019
Contractor Bid Award	June 12, 2019
Contractor Notice to Proceed	July 2019
Construction Start	September 2019 *
Construction Completion	July 2021

*Pending contractor schedule submittal

Communications & Engagement

- Final Design: April-May 2018
 - Mailing to tribes, community organizations, businesses, and residents
 - Presentations to neighborhood groups and City Council
 - Public open house and public hearing
- Pre-construction: June-Sept 2019
 - Mailing to tribes, agencies, community organizations, and residents
 - Full Metropolitan Council update on project – July 2019
 - Public open house in August
 - Presentations to neighborhood groups
 - August 5 – Longfellow Community Council
 - August 7 – Nokomis East Neigh Association
 - Sept. 9 – Standish Ericsson Neigh Association

Communications & Engagement

- Construction: Sept 2019 to Fall 2021
 - Ongoing, regular communications to tribes, residents, businesses, and park/trail users about impacts
 - Site signs or site wraps
 - Open houses and park pop-ups

Total Cost and Funding Sources

- Project awarded to Lametti and Sons, Inc. for \$18,506,300.00
- MCES project financing: Public Facilities Authority (PFA) loans
- Loans paid by regional wastewater fees

Questions

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Project Hotline and Email

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Project Website

www.metrocouncil.org/sewerconstruction/Minnehaha