

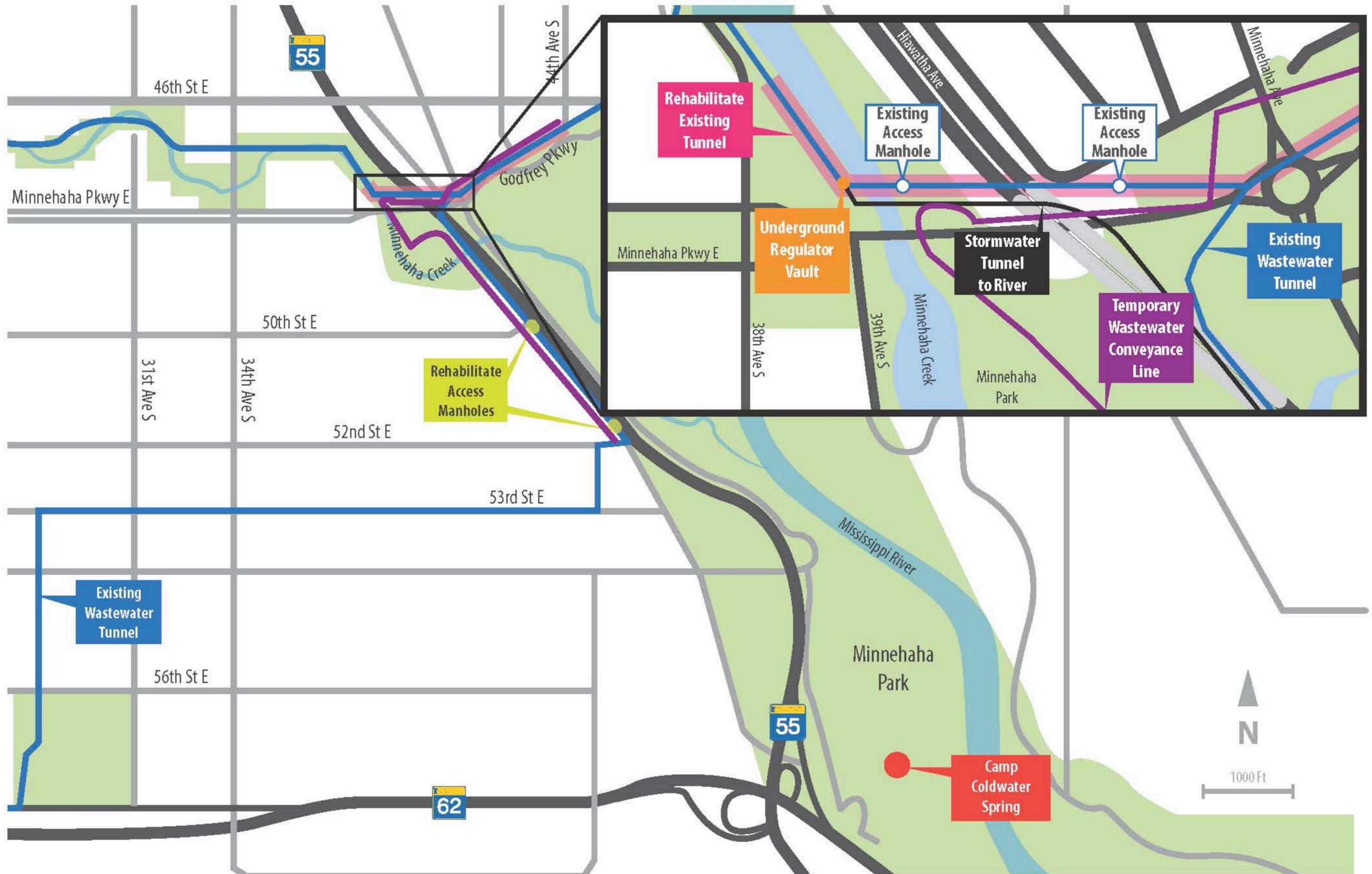
Business Item 2018-151:
Minneapolis System - R04/Tunnel
Adoption of Amended Facility Plan

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Environment Committee: June 12, 2018



Project Area



Why the Amendment?

- Construction proposed in the original plan required dewatering of the limestone
- This dewatering had the potential of impacting groundwater flow to Coldwater Spring
- State law prohibits any activity that may impact (permanent or temporary) groundwater flow to Coldwater Spring
- Hydraulic groundwater modeling and investigative work predicted the possibility of a temporary impact

Why the Amendment?

- Original facility plan adopted December of 2012 and was titled Facility Plan for Minneapolis Interceptor Rehabilitation, Phase 2, Project No. 807625
- Original facility plan addressed a family of projects
- After the facility Plan adoption a specific sub-project was created for the Regulator 04 and 1MN344 Tunnel Rehabilitation Project No 807629
- When the scope for the Regulator R04 and 1MN344 Tunnel changed it became necessary to amend only that element of the original facility plan

Proposed Changes to Recommendations

Original Facility Plan

- New R04 Regulator Structure
- New 1-MN-344 Tunnel
- Total Capital Cost of \$28 Million

Amended Facility Plan

- Rehabilitated and refurbished Regulator R04
- Rehabilitated 1-MN-344 Tunnel.
- Rehabilitation of Drop shafts A1 and D1
- Total Capital Cost of \$31 Million

Condition Improvement Alternatives

- Interceptors
 - Do nothing
 - Rehabilitate (using trenchless technology)
 - Replace
- Maintenance Holes
 - Do nothing
 - Rehabilitate
 - Replace

Alternatives Evaluation

	Do Nothing	Rehabilitate	Replace
Community Impacts	Higher	Higher	Lower
Environmental Impacts	Higher	Moderate	Higher
Permitting	Higher	Lower	Higher
Property Acquisition	N/A	Higher	Lower
Constructability	N/A	More Difficult	Moderate
Cost	Higher	Lower	Higher

Recommended
Alternative



Rehabilitation Project is Recommended

- Concerns about even minimal impacts resulted in additional analysis of water flows
- Changed project from new construction 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 daily during sewer rehabilitation

Proposed Project Scope

- Tunnel Rehabilitation Under Minnehaha Creek and Hiawatha Ave
 - Safe construction access through existing shafts
 - New ventilation shafts proposed for worker safety. Per OSHA regulations a forced air supply system must provide a minimum of 200 cubic feet per minute of fresh air for each employee working underground.
- Rehabilitate Regulator R04 structure
 - Maximizes throughput, protects facilities, prevents backups
 - Controllable gate on overflow outlet
- Rehabilitate Two Drop Shafts Adjacent to Hiawatha Ave
 - Structural improvements needed to repair corroding shaft structures

Proposed Project Scope

- Clean Existing 1-MN-340 Interceptor
 - Needed to recover pipe capacity caused by settled materials
- Capital cost is estimated at \$31 million

Project Communications

- Phase 1A: Regulatory Process (2018)
 - Determine consultation requirements, roles and responsibilities
 - Initiate consultation process and additional historic research if required
- Phase 1B: Final Design (2018-2019)
 - MCES letter to stakeholders
 - Public information meeting
 - Website postings and talking points
 - Presentations to neighborhood and other organizations
 - Meetings with stakeholders as needed

Project Communications

- Phase 2: Construction (2019-2022)
 - Periodic construction updates
 - On-site meetings with key stakeholders
 - Website and social media updates
 - Project hotline and email
 - Site signs or wraps
 - Presentations to neighborhood and other organizations
 - Doorknob hangers when needed
 - Public information meetings
 - News releases

Timeline

Activity	Date
• Presentations to Stakeholders	March/April 2018
• Public Information Meeting	Tuesday, April 24, 2018
• Formal Comment Period	April 25-June 1, 2018
• Public Hearing	Tuesday, May 22, 2018
• Adoption of the Facility Plan	Wednesday, June 27, 2018
• Bid Project	November 2018
• Begin Construction	April 2019
• End Construction	November 2021

Thrive Outcome of Stewardship

- Financial resources invested efficiently and effectively
- Maintain and restore system capacity
- Protect and enhance the region's natural resources

Proposed Action

- That the Metropolitan Council adopt the Facility Plan Amendment for the Regulator 04 & 1-MN-344 Tunnel Rehabilitation, MCES Project No. 807629, per Resolution Number 2018-6 attached to the business item.

Project Website

Updates and more information will be available on the project website at metro council.org/sewerconstruction/minnehaha.

The screenshot displays the Metropolitan Council website's 'SEWER PLANNING & CONSTRUCTION' page. At the top, a navigation bar includes links for 'About Us', 'News & Events', 'Data & Maps', 'Publications & Documents', 'Doing Business', 'Council Meetings', 'Contact Us', and 'Employment'. Below this is a secondary menu with categories like 'COMMUNITIES', 'PARKS', 'TRANSPORTATION', 'WASTEWATER & WATER', 'HOUSING', and 'PLANNING'. The main content area is titled 'SEWER PLANNING & CONSTRUCTION' and includes an 'Updates' section with a brief description of MCES sewer projects and a list of cities: 'CITIES A - E', 'CITIES F - L', and 'CITIES M - R'. A 'Minneapolis' section lists 'Minnehaha Park Area Regional Sewer Improvement Projects: Regulator 4, Tunnel & Odor Control, MCES Project No. 807629'. On the right, a 'Project Alert' box highlights the 'MINNEHAHA PARK AREA REGIONAL SEWER IMPROVEMENT PROJECTS: REGULATOR 4, TUNNEL & ODOR CONTROL' (MCES Project No. 807629) and provides a subscription form for newsletters or text alerts. The sidebar on the left contains links for 'PLANNING SERVICES PROJECTS', 'Capital Program 2018-2023', 'Energy & Sustainability', 'Sewer Planning & Construction Updates', 'News & Events', 'Funding & Finance', 'Publications & Documents', 'Contact Staff', and 'Council Fact Sheets'.

Questions