



Request for City Council Committee Action From the Department of Public Works

Date: May 4, 2010
To: Honorable Sandra Colvin Roy, Chair Transportation & Public Works Committee
Subject: **Temporary and Permanent Easement Acquisition for 10th Avenue Southeast Storm Tunnel Outlet Project**

Recommendation:

Authorize Public Works to negotiate and execute easements with private property owners to acquire Temporary (Construction) and Permanent Easements for the 10th Avenue Southeast Storm Tunnel Outlet construction project.

Previous Directives:

December 7th, 2009: Resolution 2009R-587, Ways & Means/Budget Committee adopted the 2010- 2014 Five Year Capital Program.

Prepared by: Kevin J. Danen, Principal Professional Engineer, Department of Public Works Surface Water and Sewers Division, 673-5627

Approved by:

Steven A. Kotke, P.E., City Engineer, Director of Public Works

Presenters: Kevin J. Danen, Principal Professional Engineer, Department of Public Works Surface Water and Sewers Division, 673-5627

Reviews

Permanent Review Committee (PRC):	Approval	NA	Date _____
Civil Rights Approval	Approval	NA	Date _____
Policy Review Group (PRG):	Approval	NA	Date _____

Financial Impact

No financial impact
Action is within the Business Plan

Community Impact

Neighborhood Notification: Not Applicable
City Goals: A SAFE PLACE TO CALL HOME: the city's infrastructure will be well-maintained, people will feel safe in the city.
Comprehensive Plan: Not Applicable
Zoning Code: Not Applicable

Background/Supporting Information

The City of Minneapolis has deep storm water tunnels that discharge to the Mississippi River. The 10th Avenue Southeast storm tunnel system is located in southeast Minneapolis under 10th Avenue SE. The tunnel connects the surface drainage systems at Arthur St NE and Kennedy St NE on the north, East Hennepin Ave and Pierce St NE on the west, and 8th St SE and 15th Ave SE on the east to the Mississippi River.

The existing outlet section, constructed in 1882, starts at the Mississippi River and ends at 2nd Ave SE. It is a 6'- 6" x 6'- 6", 439 foot long horseshoe tunnel constructed of a brick invert, limestone block walls, and a cast-in-place concrete arch. It was originally a sanitary sewer outlet connecting a shaft hole at 2nd Ave SE to the river.

Although the existing outlet section is generally in fair condition, it is significantly smaller than the remaining sections of the tunnel and causes large pressurization in the upstream tunnel segments. The pressurization is causing significant deterioration of the upstream tunnel liner, resulting in longitudinal fractures in the tunnel liner and voiding outside of the tunnel liner in the soft St. Peter Sandstone. The proposed project will enlarge the diameter of the tunnel in the existing alignment and alleviate some of the pressurization in the tunnel. Future 10th Ave SE tunnel projects will address the structural concerns. There are no existing easement records on file with Hennepin County and temporary easements will be needed during construction. Easements will be acquired from the University of Minnesota and BNSF Railroad.

The construction of the outlet is scheduled for fall of 2010. The funding for the project will be 2009R-587 (07300-9010932-SW011) Storm Drains & Tunnel Rehabilitation Program.

Attachments: Minneapolis Storm Tunnel Map

Cc: Council Member Kevin Reich, Ward 1
Council Member Diane Hofstede, Ward 3
Lisa Cerney, Director - Surface Water and Sewers