

Memorandum

To: Commissioners, Bassett Creek Water Management Commission
From: Barr Engineering Company
Subject: Items on the Commission's March 20, 2003 Meeting Agenda
Date: March 13, 2003
Project: 23/27 051 2003

1. Golden Valley 2003 Pavement Management

Summary

Proposed Work: Street reconstruction and pond construction

Basis for Commission Review: Work in floodplain; Street reconstruction plan greater than 5 acres. (Following adoption of Water Quality Management Policy in 1994, the Commission directed staff to present all street improvement projects for its review until further notice. Commission reconfirmed at March 2002 meeting its desire to continue to review street plans.)

Recommendation: Conditional approval

An application was received from the City of Golden Valley for review of a grading, drainage, and erosion control plan for the above-referenced street reconstruction project. The project includes the reconstruction of approximately 8 miles of streets, as well as storm sewer improvements, grading and other utility upgrades. The project is located south of Highway 55 and Harold Avenue, east of General Mills Boulevard, north of Interstate 394 and west of Jersey Avenue. In addition several local streets southwest of Highway 55 and General Mills Boulevard are included. Approximately 58 acres will be disturbed as a result of the project. Construction is proposed during 2003.

Water Quality and Storm Water Issues

Existing ponds treat a portion of the stormwater runoff. Construction of a new ponding facility and expansion of an existing ponding facility is also proposed.

Runoff from the east side of Winnetka Avenue generally discharges through the Ring and Courtlawn Ponds to the Sweeney Lake Branch of Bassett Creek. Runoff from the west side of Winnetka Avenue generally discharges through a series of ponds in Wirth Golf Course to the Bassett Creek Main Stem. The Sweeney Lake Branch has a Level I management classification and the Bassett Creek Main Stem has a Level III management classification. In addition to the

existing ponds, a new pond will be constructed southeast of Winnetka Avenue and Harold Avenue to treat a 9-acre subwatershed that currently discharges to the wetland with no treatment. The existing General Mills Pond located northwest of General Mills Boulevard and Betty Crocker Drive will be expanded to provide adequate water quality storage for the 24-acre subwatershed.

Several parking areas within Brookview Park are being expanded as part of the project. The increase in paved area is being offset by the narrowing of Brookview Parkway (north of Western Avenue), Rhode Island Avenue and other streets in the project area. The project results in a net decrease of 11,400 square feet of pavement surface.

Other permanent BMPs include construction of over 25 sump manholes for sediment removal and a street-sweeping program. Temporary erosion control features will be implemented during construction.

Floodplain Issues

The Commission's floodplain management envelope is elevation 888.0 at Brookview Golf Course. Grading of the project will result in floodplain impacts. According to the applicant, approximately 4,200 cubic yards of floodplain will be filled and approximately 2,200 cubic yards of compensating storage will be created as part of the proposed plan. Therefore, 2,000 cubic yards of floodplain storage will be created as part of this plan. The City of Golden Valley intends to "bank" this increased volume for possible consideration on other projects in this reach of Bassett Creek.

Wetland Issues

Golden Valley is the LGU for the site and is responsible for reviewing the plan for conformance to the Wetland Conservation Act. Total permanent wetland impacts are less than 10,000 square feet. A wetland mitigation plan was prepared and submitted to the LGU.

Recommendation: Approval, contingent on the following comments:

- a. Sheet PD1: Harold Pond: pond must be revised so its effective average depth is greater than or equal to 3.0 feet.
- b. Sheet PD2: General Mills Pond: pond must be revised so its proposed dead storage volume exceeds 1.02 acre-feet.
- c. Sump manholes must be maintained and inspected at least twice a year.
- d. Golden Valley is the LGU (local governmental unit) for the site. Wetland issues must be reviewed by the LGU for conformance to the Wetland Conservation Act.

2. Watershed Outlet Monitoring Program (WOMP)

The Bassett Creek WOMP station is located along Bassett Creek at the Irving Avenue crossing in Minneapolis. The WOMP program monitors rainfall, snowmelt, and limited base flow near the outlet of Bassett Creek. The station includes automated monitoring and sampling equipment to collect flow and water quality data with minimum labor.

Attached is a March 10, 2003 letter from the Metropolitan Council Environmental Services (MCES) regarding the watershed outlet monitoring program (WOMP). Funding for the WOMP program has been removed in the proposed 2004-2005 state budget. MCES has funding to support the program through June 30, 2003. MCES has requested input from each organization participating in the WOMP program regarding its interest to continue monitoring the station. Currently, the Minneapolis Parks & Recreation Board and Commission participate in the program with MCES. Following is a description of the tasks performed by each partner:

- ?? Minneapolis Park & Recreation Board: performs day to day operations including collection of samples, downloading data and maintenance of the equipment
- ?? Bassett Creek Water Management Commission: performs flow measurements to develop and maintain the rating curve, provides technical assistance and data interpretation
- ?? Metropolitan Council: provides overall project management and technical assistance, performs some data analysis and maintains the overall database, performs chemical analyses of the samples.

The Bassett Creek WOMP station has operated since 2000. The Commission has previously listed the following purposes for participating in the program:

- a. To calibrate water quality and other watershed models which will be used to evaluate management alternatives for reducing loads to Bassett Creek and the Mississippi River.
- b. To provide a baseline against which Bassett Creek Water Management Commission can measure the success of programs.
- c. To develop a comprehensive database of water quality and flow parameters.
- d. To document the contribution of the watershed to the Mississippi River.

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- e. To demonstrate the commitment of the Bassett Creek Water Management Commission member communities to achieving the goals of the Metropolitan Council.

3. For Information Only

- a. Citizens Assisted Monitoring Program (CAMP)

The following lakes in the Bassett Creek watershed are anticipated to be included in the 2003 CAMP program:

- ?? Northwood Lake
- ?? Parkers Lake (waiting for confirmation)
- ?? South Rice Lake
- ?? Sweeney Lake
- ?? Westwood Lake

- b. 5919 St. Croix Avenue: Golden Valley

A final stream restoration plan was reviewed. A letter of approval was sent to the city of Golden Valley.

- c. Watershed News & Events: Volume 18, Winter 2003

A copy of the publication from the Minnesota Association of Watershed Districts is enclosed.