

Memorandum

To: Bassett Creek Water Management Commission
From: Barr Engineering Company
Subject: Items on the Commission August 19, 2004 Meeting Agenda
Date: August 12, 2004
Project: 23/27 051

1. Local Surface Water Management Plan: Minneapolis

A copy of the report *Local Surface Water Management Plan* from the City of Minneapolis was provided for review. The referenced report is the first part of the City's larger stormwater management effort. The second part includes detailed hydrologic and hydraulic modeling of its entire stormwater system. On April 7, 2003, a letter was sent to Minneapolis staff that described the requirements of municipal stormwater management plans in the Bassett Creek Watershed.

The purpose of the plan was to document efforts already underway, to formalize procedures already in place and to summarize needs already identified. The intent of the plan was not to develop new initiatives.

The plan includes the following sections:

- Executive Summary
- 1. Introduction
- 2. Land and Water Resources
- 3. Goals and Policies
- 4. System Assessment
- 5. Implementation
- 6. Summary and Recommendations

Several of the comments identified have not yet been addressed. A detailed review of the draft report has not been performed. We recommend drafting a letter and reiterating issues identified in the April 7, 2003 letter that must be included in the overall plan. A detailed review of the entire plan can then be performed after its completion.

2. Bassett Creek Floodproofing Plan: Golden Valley

Summary

Proposed Work: Flood Control Plan

Basis for Commission Review: Information only

Recommendation: Approval

The City of Golden Valley has completed floodproofing plans for three homes that were proposed to be floodproofed as part of the original flood control project. These homes are along the Bassett Creek trunk system that do not have 100-year flood protection. The majority of the funding (72.5%) to complete the floodproofing will be from remaining funds from the BCWMC Flood Control construction account.

The three homes are located at 2445 Regent Avenue North, 4975 Bassett Creek Drive , and 5005 Bassett Creek Drive. The projects include construction of a fieldstone retaining wall and an earth berm around the homes on Bassett Creek Drive and placement of sheetpile and an earth berm around the home on Regent Ave. The plans are consistent with the objectives of the Bassett Creek flood control project. Construction of the project would remove the homes from the Bassett Creek floodplain. A sump and pump will be installed to remove water within bermed area.

3. Sweeney Lake Outlet Status Report: Golden Valley

The following table shows the downstream effect of modifying the Sweeney Lake outlet.

**Preliminary Evaluation
 Sweeney Lake Flood Level Reduction
 August 12, 2004**

	Sweeney Lake Regulatory Flood Level	Wirth Golf Course Regulatory Flood Level
Existing conditions	831.5	826.0
Increase outflow by 20 cfs	830.9	826.3
Increase outflow by 40 cfs	830.5	826.5
Increase outflow by 80 cfs	828.8	826.7

Normal water level of Sweeney Lake: 827.5
 Normal water level of Wirth Lake Golf Course: 815.5

4. Feasibility Reports: 2005 Capital Improvement Projects

Attached are draft copies of feasibility reports for Wirth Lake (prepared by the BCWMC) and Northwood Lake (prepared by New Hope). The city of Golden Valley will prepare the Twin Lake feasibility report. A copy will be provided with the September meeting packet.

5. Streambank Stabilization: Golden Valley

An agreement is attached between the BCWMC and the City of Golden Valley for completion of the streambank stabilization at 215 King Creek Road in Golden Valley. The project and use of the 2004 Channel Maintenance Fund was approved at the BCWMC's June 17, 2004 meeting. The project includes installation of riprap to stabilize the channel located along the Sweeney Lake branch upstream of Glenwood Avenue.

6. For Information Only

a. T.H. 55/Boone Avenue Floodplain Mitigation Project

Revised construction plans for the projects titled: "Boone Avenue North Stormwater, Flood Proofing and Watermain Improvements" and for "Trunk Highway 55 Improvements" were reviewed. A letter of recommendation was sent to the city of Golden Valley. Comments were provided for review. A letter of approval was sent to Golden Valley.

b. French Regional Park Cold Storage Building

A grading, drainage, and erosion control plan was reviewed for the proposed site expansion plan. A letter of recommendation was sent to the city of Plymouth.

c. Parkside Lofts

Reviewed proposed modifications to grading drainage and erosion control plan, several telephone conversations with applicant and city staff; provided recommendations to city staff.

d. Wirth Lake Beach Improvements

A grading, drainage, and erosion control plan was reviewed for the proposed site expansion plan. The plan includes rebuilding the existing beach building, utility improvements, and placement of a 4-inch sand blanket at the existing beach. The project is exempt from the water quality management policy since the disturbed area is less than 0.5 acres. The concept was originally presented to the BCWMC at its February 20, 2003 meeting to discuss the proposed plan. At that time, the BCWMC directed the Minneapolis Park and Recreation Board (MPRB) to submit a specific plan to the BCWMC for review in order to properly address water quality issues. Previously, the MPRB proposed a large rain garden and parking improvements as part of the project. Although the rain garden is not included, the MPRB has implemented BMPs, consisting of redirecting a storm sewer that currently discharges directly into Wirth Lake, to a new detention area and wetland. (Note: the BCWMC was informed during the February 2003 meeting that Close Landscape Architecture was retained by the

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Page: 4

MPRB to prepare the Wirth Lake Beach improvement plans and that Barr assisted Close Landscape Architecture on the design of the proposed rain garden, currently removed from the project, and detention pond to ensure consistency with Commission requirements and the Wirth Lake Watershed and Lake Management Plan. Barr also provided assistance with utility issues.)

e. Erosion Control Inspection Report

A copy of the August 2, 2004 inspection report is included.