

Memorandum

To: Bassett Creek Water Management Commission
From: Barr Engineering Company
Subject: Items on the Commission March 18, 2004 Meeting Agenda
Date: March 11, 2004
Project: 23/27 051

1. Crystal - 2004 Phase 6 Central Street Reconstruction

Summary

Proposed Work: Street reconstruction plan

Basis for Commission Review: Street reconstruction greater than 5 acres

Recommendation: Conditional approval

A request was received for review of a street reconstruction project in the City of Crystal. The project includes utility improvements and the reconstruction of approximately 1.6 miles of street in the Bassett Creek watershed. The project is located in the Main Stem watershed and includes Markwood Lane, Jersey Avenue, Florida Avenue, Georgia Avenue, Hampshire Avenue, Kentucky Avenue, 37th Avenue, 38th Avenue, and 39th Avenue. Approximately 8 acres in the Bassett Creek watershed will be disturbed as a result of the project. Runoff discharges through existing storm sewers to the North Branch of Bassett Creek. Other segments of the project discharge north to the Shingle Creek watershed.

Temporary erosion control features will be implemented during construction. Runoff from a portion of the project will discharge to Florida Pond. Additional water quality ponding is not proposed due to unavailable property in the fully developed project area. Permanent BMPs include construction of two environmental sump manholes for sediment removal in the Shingle Creek watershed.

Recommendation: Approval, contingent on the following comments:

- a. Sheet 49: The invert of Structure 200 must be installed at or below the normal water elevation of the receiving water body.
- b. We recommend installation of a sump manhole /grit chamber at Structure 202 to remove grit and floatables from the runoff prior to entering Florida Pond.
- c. Sump manholes must be maintained and inspected at least twice a year.
- d. The plans should be provided to the Shingle Creek Watershed for review of the features located north of 39th Avenue.

- e. Crystalis the LGU (local governmental unit) for the site. Wetland issues must be reviewed by the LGU (or its designated agent) for conformance to the Wetland Conservation Act.

2. MN DNR Permit Application 2004-3153: Plymouth/Medicine Lake

Summary

Proposed Work: Miscellaneous shoreline restoration work in Medicine Lakes

Basis for Commission Review: Request for review and comment; work in floodplain

Recommendation: Approval, preparation of letter to DNR stating that BCWMC will still require submittal for its review.

A request was received from the Minnesota Department of Natural Resources (DNR) for review of a DNR permit application for work related to the restoration of shorelines on 14 properties along Medicine Lake. The restoration plan includes bioengineering techniques for minor slope corrections. Bioengineering features include natural plantings and shoreland seed mix, live stakes, coconut biologs, aquatic plants, etc. The proposed project will be funded and performed under the City of Plymouth/Medicine Lake's Shoreline Grant Agreement. The management envelope for Medicine Lake is 890.3 feet MSL. Construction is anticipated to occur during the summer of 2004 and 2005. Under the grant arrangement, homeowners are responsible for 10% of the construction costs and the City will be responsible for 90% of these costs. Construction will be performed by a private contractor. Plymouth and Medicine Lake staff will evaluate the success of these initial projects and then include other properties in the program.

The DNR has also distributed the draft application to each watershed authority in the city to prepare for a possible "General Permit" for the City. The "General Permit" would allow bioengineering practices that combine natural (plantings, etc.) and structural (riprap, etc.) elements on any basin or watercourse in the City, if approved by the City.

Recommendation: Approval, of proposed shoreline restoration project. Note following comments for proposed general permit:

- a. A letter should be sent to the DNR and Plymouth stating that projects within the BCWMC's jurisdiction must still be submitted for review and approval by the BCWMC.
- b. Floodplain impacts must be mitigated to prevent flood stage increases as a result of each project.
- c. The cross section area of Plymouth Creek and Bassett Creek must not decrease as a result of a proposed project.
- d. Shoreline protection shall be placed so erosion is not transferred to other locations of the shoreline or channel.

3. Breck School Baseball Field Reconstruction: Golden Valley

Summary

Proposed Work: Baseball field reconstruction

Basis for Commission Review: Work in floodplain

Recommendation: Approval

A request was received for review of a baseball field improvement plan at Breck School in the City of Golden Valley. Breck School is roughly bounded by Highway 100 on the west, MN&S Railroad right-of-way on the north, Ottawa Avenue on the east, and Lilac Drive on the south. The site is located within the Sweeney Lake Branch of Bassett Creek. The Sweeney Lake Branch has a Level I management classification. The project includes regrading existing baseball field #1 and providing subsurface drainage. Runoff from the field discharges to the west stormwater pond. The Commission's floodplain management envelope is elevation 840.1. Grading will occur on 2.6 acres and will result in the 0.6 acre-feet of fill in the floodplain. In addition, a new as-built survey performed by the applicant indicates that 0.34 acre-feet of excess fill was placed in field #2 during its construction. Thus the total fill proposed for the baseball fields is 0.92 acre-feet. Computations were provided by the applicant that shows 1.2 acre feet of floodplain was created during grading for the Ottawa field during 2003 (this excess floodplain storage was also documented in the Commission's June 12, 2003 memorandum). Therefore adequate floodplain mitigation has been provided for the proposed grading.

Background

The Commission has previously reviewed several expansion and improvement plans at Breck School:

- ? Phase 1 expansion was reviewed at the August 19, 1999 meeting. Phase I included several building additions, parking modifications and construction of a water quality treatment pond at the western portion of the site.
- ? Phase II expansion was reviewed at the March 17, 2000 meeting. Phase II included remodeling the existing stadium, addition of a fieldhouse, building additions, parking improvements, soccer field improvements, and the construction of two water quality ponds on the eastern portion of the site.
- ? The Breck School soccer fields were reviewed at the Commission's February 21, 2002 and May 16, 2002 meetings.
- ? The Ottawa Field plan was reviewed at the Commissions June 19, 2003 meeting.

Recommendation: Approval, contingent on following comment:

- ? Golden Valley is the LGU for the site and is responsible for reviewing the plan for conformance to the 1991 Wetland Conservation Act.

4. For Information Only

- a. CVS Pharmacy: Plymouth
A revised grading, drainage, and erosion control plan was reviewed for the proposed development. A letter of approval was sent to the city of Plymouth.
- b. Voyager Bank: Minnetonka
A grading, drainage, and erosion control plan was reviewed for the proposed development. A letter of recommendation was sent to the city of Minnetonka.
- c. Bassett Creek Pond Improvements and Bank Stabilization: Golden Valley
A revised plan was reviewed for the proposed project. A letter was sent to the City of Golden Valley.
- d. Parkside Lofts: St. Louis Park
A revised grading, drainage, and erosion control plan was reviewed for the proposed development. A letter of approval was sent to the city of St. Louis Park.
- e. TH 55/Boone Avenue Wetland Mitigation: Golden Valley
A grading, drainage, and erosion control plans were reviewed for the proposed development. A letter of recommendation was sent to the city of Golden Valley.
- f. Future General Mills Expansion: Golden Valley
Floodplain documentation and other preliminary information were reviewed for the proposed future development. A letter of recommendation was sent to the city of Golden Valley.
- g. Brookview Golf Course: Golden Valley
Floodplain documentation and other preliminary information were reviewed for the proposed golf course improvement project. A letter of recommendation was sent to the city of Golden Valley.
- h. Erosion Control Inspection Report
Erosion control inspections will begin April 2004 and extend through October 2004.