



Memorandum

To: Bassett Creek Watershed Management Commission (BCWMC)
From: Barr Engineering Co. (Barr) (Jim Herbert, PE; Gabby Campagnola)
Subject: Item 4F: Hopkins Crossroads Trail Improvement– Minnetonka, MN
BCWMC December 21, 2023 Meeting Agenda
Date: December 14, 2023
Project: 23270051.58 2023 2330

4F Hopkins Crossroads Trail Improvement – Minnetonka, MN BCWMC 2023-23

Summary:

Proposed Work: Construction of an eight-foot-wide pedestrian trail and storm sewer improvements

Project Proposer: City of Minnetonka

Project Schedule: Construction May–November 2024

Basis for Review at Commission Meeting: Work in the floodplain

Impervious Surface Area: Increase 0.2 acres (in Bassett Creek watershed)

Recommendation for Commission Action: Conditional approval

General Project Information

The proposed linear project includes the construction of an eight-foot-wide trail and storm sewer improvements along the east side of Hopkins Crossroad (County Road 73) in Minnetonka, resulting in approximately 2.0 acres of land disturbance and 0.2 acres of new impervious surface in the Bassett Creek watershed. The linear trail project is located in both the Bassett Creek and Minnehaha Creek watersheds. The portion of the project in the Bassett Creek watershed extends between Live Oak Drive and Oak Knoll Terrace North. The project will not result in a drainage divide change between the Bassett Creek and Minnehaha Creek watershed. This memorandum is solely for the work in the Bassett Creek watershed (Crane Lake subwatershed).

Floodplain

The proposed project includes work in the BCWMC (Crane Lake) 100-year floodplain. The 1% annual-chance (base flood elevation, 100-year) floodplain elevation of Crane Lake is 920.20 feet NAVD88. The January 2023 BCWMC Requirements for Improvements and Development Proposals (Requirements) document states that projects within the floodplain must maintain no net loss in floodplain storage and no increase in flood level at any point along the trunk system (managed to at least a precision of 0.00 feet). The proposed project will include installation of 9 cubic yards of riprap fill in the floodplain, and excavation of 9 cubic yards of material in the floodplain, resulting in no change in floodplain storage.

Wetlands

The applicant submitted a Minnesota Interagency Water Resource Application Form that lists fill as a permanent impact to wetlands in the BCWMC. The proposed project will mitigate the fill with the use of a federal and state approved wetland bank with approved credits available at a ratio of 2:1. The City of Minnetonka is the local government unit (LGU) responsible for administering the Wetland Conservation Act; therefore, BCWMC wetland review is not required. The City should review the project for conformance to its buffer requirements.

Rate Control

The proposed linear project does not create one or more acres of net new impervious surfaces; therefore, BCWMC rate control review is not required.

Water Quality

The proposed linear project does not create one or more acres of net new impervious surfaces; therefore, BCWMC water quality review is not required. However, the proposed linear project includes a two-foot-deep sump manhole before the outlet to Crane Lake.

Erosion and Sediment Control

The proposed project results in one or more acres of land disturbance; therefore, the proposed project must meet the BCWMC erosion and sediment control requirements. Proposed temporary erosion and sediment control features include silt fence and inlet protection. Permanent erosion and sediment control features include stabilization with seed and blanket.

Recommendation for Commission Action

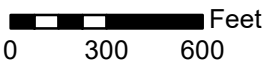
Conditional approval based on the following comments:

1. The BCWMC 100-year floodplain elevation for the project site (920.2 feet NAVD88) must be clearly shown and labeled on the drawings.
2. The note on Sheet 5.05 for structure 5071 should be revised to include that material must be excavated between the normal water elevation of Crane Lake (917.3 feet. NAVD88) and the 100-year floodplain of the Crane Lake (920.20 feet NAVD88) for it to count as compensating storage.
3. The existing and proposed contours must be labeled with their corresponding elevation.
4. We recommend increasing the sump depth to four feet to improve the pollutant removal efficiency of the sump.
5. Revised drawings (paper copy and final electronic files) must be provided to the BCWMC Engineer for final review and approval.



Project Location

-  Project Location
-  Municipality
-  BCWMC Legal Boundary
-  Major Subwatershed
-  BCWMC Hydrologic Boundary
-  Bassett Creek



BCWMC 2023-23
 HOPKINS CROSSROADS
 TRAIL IMPROVEMENT
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LOCATION MAP