



## Memorandum

**To:** Bassett Creek Watershed Management Commission (BCWMC)  
**From:** Barr Engineering Co. (Barr)  
**Subject:** Item 4D: Rude Property Landscaping and Shoreline Improvements – Plymouth, MN  
BCWMC August 20, 2020 Meeting Agenda  
**Date:** August 12, 2020  
**Project:** 23270051.48 2020 2224

### 4D Rude Property Landscaping and Shoreline Improvements – Plymouth, MN BCWMC 2020-19

#### Summary:

**Proposed Work:** Single-family home landscaping and shoreline improvements

**Basis for Review at Commission Meeting:** Shoreline improvements

**Impervious Surface Area:** Decrease 64 square feet

**Recommendation:** Approval

#### General Project Information

The proposed project is located in the Medicine Lake Direct subwatershed at 11625 26<sup>th</sup> Avenue North in Plymouth, MN. The applicant proposes to improve the Medicine Lake shoreline along their property by placing fieldstone riprap along the shoreline as part of a larger landscaping project on the property. The proposed project creates 6,450 square feet of reconstructed impervious surfaces and a decrease of 64 square feet of impervious surfaces from 6,514 square feet (existing) to 6,450 square feet (proposed).

#### Floodplain

The proposed project includes work in the BCWMC (Medicine Lake) 1% (base flood elevation, 100-year) floodplain. The October 2019 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 1% (base flood elevation, 100-year) floodplain elevation of Medicine Lake is 890.4 feet NAVD88. The proposed project does not involve fill in the floodplain.

#### Lakes, Streams, and Wetlands

The proposed project includes the referenced shoreline improvement work along Medicine Lake that triggers review by the Commission. The applicant proposes installation of riprap and fabric along the shoreline from elevation 890 to 893 at approximately 3 to 1 (horizontal to vertical) slopes. The proposed riprap and fabric was designed generally in accordance with the Minnesota Department of Natural

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Resources' (MnDNR) approved riprap cross section, which was provided to the applicant by the Commission Engineer.

The City of Plymouth is the local government unit (LGU) responsible for administering the Wetland Conservation Act; therefore, BCWMC wetland review is not required.

### **Rate Control**

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

### **Water Quality**

The proposed project does not create one or more acres of new or fully reconstructed impervious surfaces; therefore, BCWMC water quality review is not required.

### **Erosion and Sediment Control**

Single family homes are exempt from BCWMC erosion and sediment control requirements.

### **Recommendation**

Approval



Project Location

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



0 150 300 Feet



BCWMC #2020-19  
 RUDE PROPERTY  
 LANDSCAPING &  
 SHORELINE IMPROVEMENTS  
 Plymouth, MN  
 LOCATION MAP