



## Memorandum

**To:** Bassett Creek Watershed Management Commission  
**From:** Barr Engineering Co.  
**Subject:** Item 7A – Four Season Mall Area Water Quality Project (CIP NL-2)  
i. Lancaster Lane Diversion Project Update  
BCWMC September 19, 2013 Meeting Agenda  
**Date:** September 12, 2013  
**Project:** 23270051.34 2013

### 7A. Four Season Mall Area Water Quality Project (CIP NL-2): i. Lancaster Lane Diversion Project Update

#### Recommendations:

1. Remove the Divert Lancaster Lane Storm Sewer Project (CIP NL-3) from the BCWMC CIP.

#### Background

The BCWMC's CIP includes construction of the Divert Lancaster Lane Storm Sewer Project (CIP NL-3) in 2019. The 1996 Northwood Lake Watershed and Lake Management Plan recommended this project as one of the structural best management practices to implement in the watershed to reduce phosphorus loadings to Northwood Lake. The purpose of the project was to divert flows from Lancaster Lane into a wetland on the west side of Lancaster Lane to provide more treatment of the stormwater. At the time of the 1996 report, the available information (record drawings) showed the storm sewer on Lancaster Lane discharging to the east, to a different wetland (pond NB-07) (see location arrow 1 on attached figure).

The City of Plymouth presented their 50% plans for the Four Seasons Mall Area Water Quality Project to the Commission at their August 15 meeting. During the discussion, city staff noted that the project also included the Lancaster Lane diversion project, a separate CIP project that the Commission had not yet ordered. The Commission directed staff to look into how the project could be incorporated into the current Four Seasons Mall Area Water Quality Project (e.g., when the Commission could order the project and when a public hearing should be held).

**To:** Bassett Creek Watershed Management Commission  
**From:** Barr Engineering Co.  
**Subject:** Item 7A – Four Season Mall Area Water Quality Project (CIP NL-2)  
i. Lancaster Lane Diversion Project Update  
BCWMC September 19, 2013 Meeting Agenda  
**Date:** September 12, 2013  
**Page:** 2

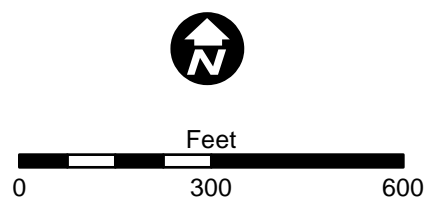
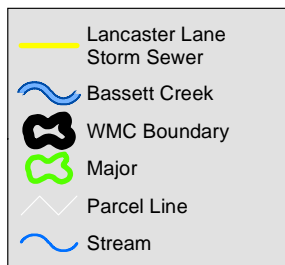
---

At a subsequent meeting with Plymouth staff, the Commission Engineer learned that the Lancaster Lane storm sewer already discharges to the wetland on the west side of Lancaster Lane (see location arrow 2 on attached figure). This means that the diversion called for in the proposed CIP project is not needed. However, the Lancaster Lane storm sewer currently discharges into the northeast corner of the wetland, very near the wetland outlet. Thus, the stormwater flows from the Lancaster Lane storm sewer pipe cannot be sufficiently treated by the wetland before the flows discharge from the wetland (i.e., the flows “short-circuit”).

To provide for better treatment of the Lancaster Lane stormwater flows, the Four Seasons Mall Area Water Quality Project includes a proposed change in the discharge location for the Lancaster Lane storm sewer. The project plans show the discharge location moved to the southeast side of the wetland (see location arrow 3 on attached figure). This change in the discharge location will allow for better treatment of the stormwater flows.

Staff recommends the Commission remove the Divert Lancaster Lane Storm Sewer Project (CIP NL-3) from the BCWMC CIP.





**LOCATION MAP**  
**Four Seasons Mall**  
**Water Quality Improvements**  
**Lancaster Diversion Project**  
**Plymouth, MN**