

Memorandum

To: Bassett Creek Watershed Management Commission
From: Barr Engineering Co.
Subject: Item 4E – France-Indiana Ave Reconstruction – Robbinsdale
BCWMC April 16, 2015 Meeting Agenda
Date: April 8, 2015
Project: 23270051 2015 2036

4E France-Indiana Ave Reconstruction - Robbinsdale

Summary:

Proposed Work: Street Reconstruction

Basis for Commission Review: Linear Project Disturbing Over 5 Acres

Impervious Surface Area: Increase 0.0 acres

Recommendation: Conditional Approval

General Background & Comments

The proposed project includes work on 33rd, 36th, France, and Indiana Avenues. The project includes street reconstruction and replacement of underground utilities including sanitary sewer, storm sewer, and water main. The project will result in no change in impervious surface from the current conditions. The total proposed impervious area is 7.2 acres. The site is in the Grimes Lake Subwatershed.

Floodplain

N/A

Wetlands

There is no work in wetlands as a part of this project. The BCWMC is the LGU for administering the Minnesota Wetland Conservation Act of 1991.

Stormwater Management

Under existing conditions, runoff from the project area is conveyed through storm sewer to four flared end section discharge points west of Indiana Avenue. Under proposed conditions, the drainage divides will remain the same and runoff will be conveyed through reconfigured storm sewer to two flared end section discharge points west of Indiana Avenue.

Water Quality Management

There is currently no water quality treatment provided on the site and the project does not include any permanent best management practices.

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Page: 2
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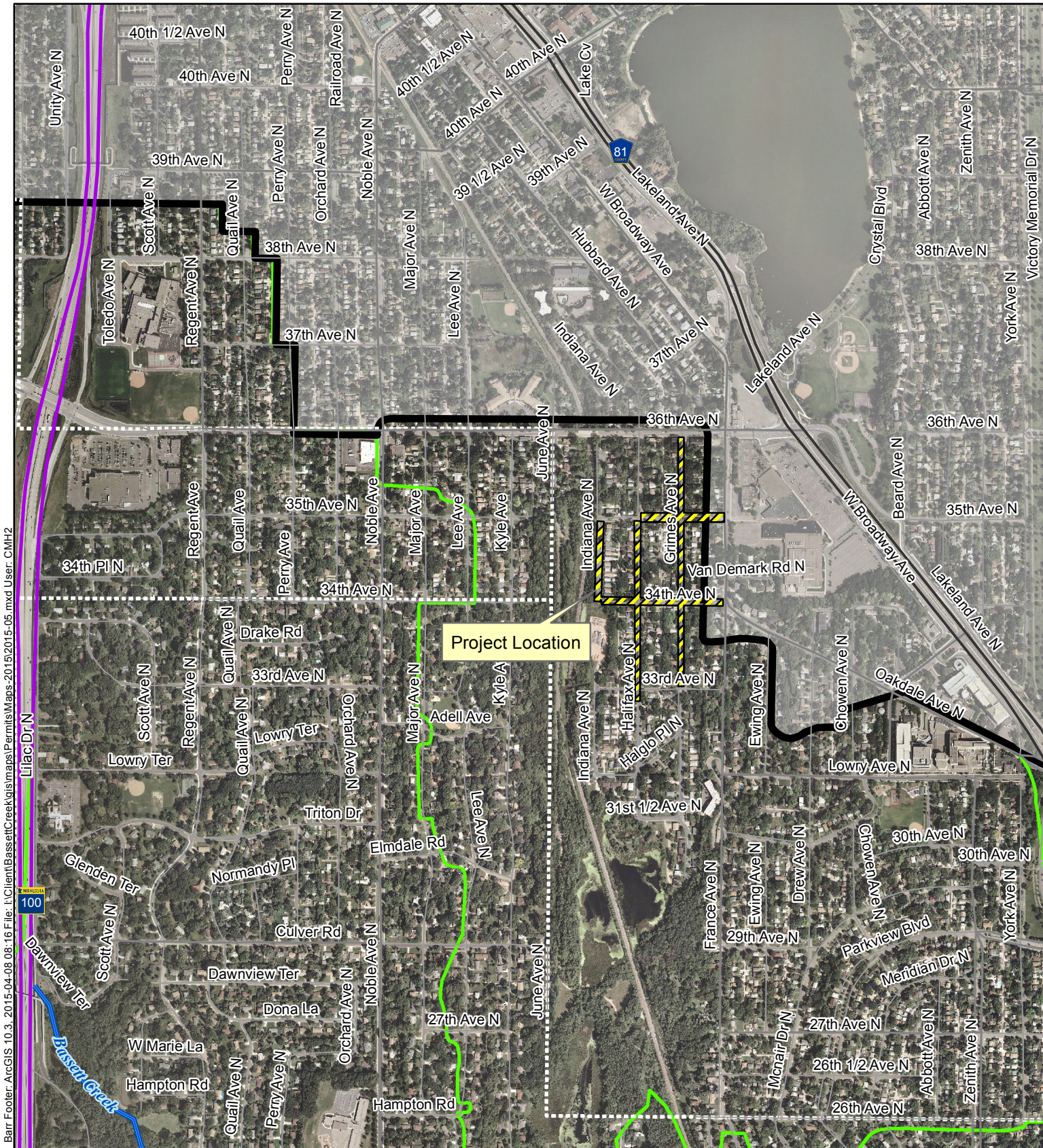
Erosion and Sediment Control

Since the area to be graded is greater than 10,000 square feet, the proposed project must meet the BCWMC erosion control requirements. Proposed temporary erosion control features include catch basin inlet protection, rock check dams, and street sweeping.

Recommendation







Conditional approval based on the following comments:

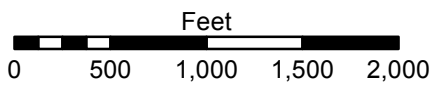
1. The Bassett Creek Watershed Management Plan requires that installation of permanent water quality best management practices be considered for road construction and reconstruction projects. Due to the limited available space for BMP implementation, the city should consider installing sump manholes with SAFL baffles to improve water quality upstream of each new outlet.
2. Outlet velocities at FES 31-123 and FES 31-141 exceed 10 fps and 17 fps respectively, when the pipes are flowing full. The City should add additional drop structures (or increase the proposed drop) to reduce the outlet velocities at these discharge locations.
3. Silt fence should be installed around areas of disturbance outside the roadway footprint (i.e. where stumps are being removed between the roadway and the sidewalk). Silt fence would not be needed if this area drains to the roadway; however, plans should clarify the drainage direction.
4. Add the following erosion control notes to the plans:
 - Vehicle tracking of sediment from the construction site (or onto streets within the site) must be minimized by installing rock construction entrances (with a minimum height of 2 feet above the adjacent roadway and with maximum side slopes of 4:1), rumble strips (mud mats), wood chips, wash racks, or equivalent systems at each site access.
 - Soils tracked from the site by motor vehicles must be cleaned daily (or more frequently, as necessary) from paved roadway surfaces throughout the duration of construction.
 - All exposed soil areas must be stabilized as soon as possible, but in no case later than 14 days after the construction activity has temporarily or permanently ceased.
 - Temporary or permanent mulch must be uniformly applied by mechanical or hydraulic means and stabilized by disc-anchoring or use of hydraulic soil stabilizers.
 - A temporary vegetative cover must be provided consisting of a suitable, fast-growing, dense grass-seed mix spread at 1.5 times the usual rate per acre. If temporary cover is to remain in place beyond the present growing season, two-thirds of the seed mix shall be composed of perennial grasses.
 - A permanent vegetation cover must be specified consisting of sod, a suitable grass-seed mixture, or a combination thereof. Seeded areas shall be either mulched or covered by fibrous blankets to protect seeds and limit erosion.
5. Revised drawings must be provided to the BCWMC Engineer for final review and approval.



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Imagery Source: Aerial Express (2009)

-  Project Location
-  Bassett Creek
-  WMC Boundary
-  Major Subwatershed
-  Municipality
-  Stream



**LOCATION MAP
APPLICATION 2015-05
France-Indiana Ave Reconstruction
Robbinsdale, MN**