COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: September 11, 2017
AGENDA NUMBER: 10
FILE NUMBER: 17-158
ITEM: 131st Ave Ditch 59-6 Culvert Replacement

RECOMMENDATION: Approve with 1 Stipulation

APPLICANT: City of Blaine
Attn: Stefan Higgins
10801 Town Square Drive
Blaine, MN 55449

PURPOSE: Culvert Replacement on County Ditch 59-6

LOCATION: 2200 feet east of intersection of 131st Ave and Lexington Ave NE, Blaine MN

APPLICABILITY:
1. Any work within or adjacent to a Public ditch within the Watershed District.
2. Any work in or adjacent to wetlands, lakes or water courses
3. The lands and waters that have been, or may be covered by the regional flood.

4. Excavation or filling or a combination of excavation and filling of sand or other excavation or fill material including the laying, repairing, replacing or enlarging of a culvert or an underground pipe or facility where it crosses a public ditch or waters of the state.

EXHIBITS:
1. Construction Plan set (1 sheet); by City of Blaine, dated 8/2/17, received 8/23/17.

PREVIOUS ACTION TAKEN: This is a new application.

FINDINGS:

Pre-application Meeting: The project as submitted has received a general review during a pre-application meeting.

Ditches: There is a public ditch on the property. The public ditch is County Ditch 59-6 according to the public drainage map. The approved elevations through this property are 892.4 ft MSL at the downstream end and 892.5 ft MSL at the upstream end. The observed elevations through this property are 895.7 ft MSL at the downstream end and 896.0 ft MSL at the upstream end. Existing elevations of the ditch represent a 3.3-3.5 foot variance from the approved elevations. The ditch is a 2nd order stream. The ditch serves the primary role of agricultural drainage and storm water conveyance. The ditch serves approximately 17 acres of agricultural land. Land use in the area is agriculture and single family residential. There are flooding concerns upstream. The ditch has been inspected. Existing elevations, slopes and condition of ditch are fair. Alternatives to repair and additional drainage have been considered and reviewed. The ditch is not in need of repair.

Ditch Hydraulics: A crossing of the ditch is proposed. The proposed crossing involves the replacement of a culvert. The proposed culvert is of sufficient hydraulic capacity.

Erosion and Sediment Control: Soil affected by the proposal is Isanti. Proposed project is culvert replacement.
- Stabilizing vegetation is proposed for disturbed areas within seven (7) days of rough grading.
- Soil stockpiles have been proposed to be fitted with sediment-trapping measures to prevent soil loss.
- Adjacent properties and stormwater ponds are protected from sediment deposition.
- Construction schedules detailing when sediment trapping measures will occur; stabilization of earthen structures and the general timing of construction phases have been provided.
- Stormwater runoff does pass through a sediment basin or other sediment trapping BMP with equal or greater storage capacity.
- Stabilization adequate to prevent erosion has been provided at the outlets of all storm sewer pipes.
- All storm sewer inlets are protected from sediment-laden water during construction.
- All work adjacent to water or related resource has taken precautions to contain sediment, and stabilize the work area during construction.
- Provisions have been made to minimize transport of sediment (mud) by runoff or vehicle racking onto the paved surface.
- Provisions have been made for cleaning road surfaces where sediment is transported by the end of the day.
- Construction entrance points are clearly located on the erosion and sediment control plan.
- The erosion and sediment control plan does provide for the repair and maintenance of all temporary and permanent erosion and sediment control practices.

**Dewatering**: Shallow ground water does exist on site. The project does require dewatering.

**Floodplain**: There is floodplain on the property according to the District model and FEMA. The District’s floodplain elevation is at 899.2 feet on the downstream side of 131st Ave NE and 900.2 feet on the upstream side of 131st Ave NE. The project does not propose to place fill within the floodplain. There are flooding concerns upstream which are being address with this project.

**High Water Flooding**: Information has not been provided to substantiate low floor elevations and is not needed, no structures proposed.

**Groundwater**: Geotechnical information not been provided and is not needed, no structures proposed.

The site is not within a Municipal Drinking Water Supply Area (DWSMA).

The project site is not within the Emergency Response Area/10 Year Well Head Protection Area/Drinking Water Supply Management Area.

The proposal does not contain a land use discouraged or prohibited by the Safe Drinking Water Supply Act (SDSA).

**Historic Sites**: The proposed project does not include sites of historic or archeological significance.

**Local Planning & Zoning**: The proposed project is consistent with local planning and zoning. There is an approved local water plan.

**Maintenance**: No Stormwater Management features or treatment practices proposed as part of the project.
Stormwater & Hydrology: Infiltration not required, no new impervious proposed. Stormwater leaving the site is discharged into a well-defined receiving channel or pipe and routed to a public drainage system.

Drainage sensitive uses do not exist downstream from the proposed site. The rate of post-development runoff from the site does not exceed predevelopment rates, or rates which would interfere with sensitive downstream land uses. No increases in the volume, velocity and peak water flow rates of stormwater runoff are proposed as part of the project. No concentrated storm water will result from project. No on-site constructed storm water conveyance channels are proposed as part of the project.

Water Quality: The proposed project does not cause an exceedance of State water quality standards. The project does not contribute to the adverse impact of wetlands through inundation or volume of flow. All work adjacent to wetlands, waterbodies and water conveyance systems are protected from erosion. The proposal will not detrimentally affect the existing water quality of the receiving water. The proposal will not cause extreme fluctuations of water levels or temperature changes.

Impairments: This project is not within one (1) mile of and drains to an Impaired Water.

There are no new impervious surfaces proposed as part of this project.

Wetlands: Wetlands may exist on-site according to the 1987 Federal manual, NWI, PWI and Soil Survey. Wetlands have not been delineated. No wetland impacts are proposed.

Wetland Replacement Plan:
A wetland replacement plan is not required.

Wildlife:
The proposed project does not include endangered or threatened species, rare natural communities, colonial waterbird nesting sites, migratory waterfowl concentration areas, deer wintering areas or wildlife travel corridors.

Performance Escrow: $2,010.00
Wetland Escrow: $ N/A
There are not ditch liens on the property.

ISSUES/CONCERNS:

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<th>ISSUE</th>
<th>NEED</th>
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<td>Escrows: $2,000 + (.02 ac * $500/ac) = $2,010.00</td>
<td>1. Receipt of escrows.</td>
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RECOMMENDATION: Approve with 1 Stipulation

Stipulation:
1. Receipt of escrows.