COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: October 8, 2018
AGENDA NUMBER: 15
FILE NUMBER: 18-182
ITEM: 126th Ave Culvert Replacement

RECOMMENDATION: Approve with 2 Stipulations

APPLICANT: City of Blaine
10801 Town Square Dr
Blaine, MN 55449

PURPOSE: Culvert Replacement

LOCATION: 126th Ave east of Xebec St 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:**

**PREVIOUS ACTION TAKEN:** This is a new application.

**FINDINGS:**

**Pre-application Meeting:** The project as submitted has not 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/as-built elevations through this property are 895.0ft MSL at the downstream end and 895.0 ft MSL at the upstream end.

The ditch is an 2nd order stream. The ditch serves the primary role of
   a. Storm water conveyance
The ditch serves approximately 0 acres of agricultural land. Land use in the area is large lot residential. There are no flooding concerns upstream and/or downstream.

The ditch has been inspected. Existing elevations, slopes and condition of ditch are poor. 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 should remain 60’ in length 36” in diameter with and upstream invert elevation of 895.03 and a downstream invert elevation of 895.00. Elevations are in the NAVD 1988 datum.

**Erosion and Sediment Control:** Soil affected by the proposal is Isanti.
- 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.
- Stabilization adequate to prevent erosion has been provided at the outlets of all storm sewer pipes.
- 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.
- 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 not exist on site. The project does not require dewatering.

**Floodplain:** There is a floodplain on the property according to the District model and FEMA. The District’s floodplain elevation is at 900.4 feet. The project does not propose to place fill within the floodplain.

**High Water Flooding:** Information has not been provided and is not needed. No structures are proposed as part of this project.
Groundwater: Geotechnical information has not been provided and is not needed.

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 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: There are no stormwater management features or treatment practices proposed as part of this project.

Easements: The proposed project does not include ditch maintenance easement. A ditch maintenance easement is not required. A maintenance access to all storm water management features is not provided.

Stormwater & Hydrology: No changes to stormwater runoff are expected as part of this project.

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 expected. No concentrated stormwater is expected as part of this project. All on-site constructed storm water conveyance channels are constructed to withstand the expected velocity from a 2-year frequency storm without erosion.

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 an Impaired Water.

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

Wetlands: Wetlands do not exist on-site according to the 1987 Federal manual, NWI, PWI and Soil Survey. Wetlands have not been delineated.
The applicant does not need to contact the DNR area hydrologist and the Corps of Engineers.

**Wetland Replacement Plan:** A wetland replacement plan has not been submitted and 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.

The applicant has not contacted the MDNR natural heritage or endangered species program.

If the project is present, the project does not propose substantial adverse alteration or significant detrimental impact on a species or removal of a plant species.

**Performance Escrow:** $2,010

**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>$2,000 + (0.02 ac * $500/ac) = $2,010</td>
<td>1. Receipt of escrows.</td>
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<tr>
<td><strong>Stormwater &amp; Hydraulics:</strong> The proposed culvert shall be 60’ in length and 36” in diameter with an upstream invert elevation of 895.03 and a downstream invert elevation of 895.00 (NAVD 88).</td>
<td>2. Provide culvert As-builts including US and DS invert elevations.</td>
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**RECOMMENDATION:** Approve with 4 Stipulations

**Stipulations:**

1. Receipt of escrows.
2. Provide culvert As-builts including US and DS invert elevations.