COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: January 28, 2019
AGENDA NUMBER: 13
FILE NUMBER: 19-024
ITEM: Erlandson Park Bridge

RECOMMENDATION: Table with 6 Stipulations

APPLICANT: City of Coon Rapids
11155 Robinson Drive
Coon Rapids, MN 55433

PURPOSE: Bridge replacement

LOCATION: NE of Avocet Street and 111th Ave, Coon Rapids MN

APPLICABILITY:
1. Within 1 mile of an impaired waters.
2. Any work within or adjacent to a Public ditch within the Watershed District.
3. Any work in or adjacent to wetlands, lakes or water courses
4. The lands and waters that have been, or may be covered by the regional flood.
5. 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. Project Narrative and Figure; by City of Coon Rapids, undated, received 1/11/2019.

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 Lower Coon Creek according to the public drainage map. The approved/as-built elevations through this property are 841.414 ft MSL at the downstream end and 843.093 ft MSL at the upstream end. Lower Coon Creek is a DNR Public Water.

The ditch is a 5th order stream. The ditch serves the primary role of
a. Trunk drainage system

The ditch serves approximately 0 acres of agricultural land.
Land use in the area is toward residential.

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

Erosion and Sediment Control: Soils affected by the proposal are alluvial and Nymore.
- Stabilizing vegetation is proposed for disturbed areas within seven (7) days of rough grading.
- Soil stockpiles not anticipated as part of the project.
- Adjacent properties and stormwater ponds are not fully 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.
- No stormwater pipes impacted by the project.
- All work adjacent to water or related resource has taken precautions to contain sediment, and stabilize the work area during construction.
- Provisions have not been made to minimize transport of sediment (mud) by runoff or vehicle racking onto the paved surface.
- Provisions have not 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 not 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 may require dewatering.

Floodplain: There is floodplain on the property according to the District model and FEMA. The District’s floodplain elevation is at 898.3 feet. The project does not propose to place fill within the floodplain. There are no flooding concerns upstream and/or downstream.

High Water Flooding: Information has not been provided and is not needed, no structures proposed.

Groundwater: Geotechnical has not been provided and is not needed, no structures or infiltration practices proposed.

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 are proposed as part of the project.

Easements: The proposed project does include ditch maintenance easement. A ditch maintenance easement is not required.

Stormwater & Hydrology: Infiltration is allowed within the project area. The new bridge has a reduction in impervious area.

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 increase in the volume, velocity and peak water flow rates of stormwater runoff expected as part of the project. Concentrated storm water leaving a site is discharged directly into a well-defined natural or man-made off-site receiving channel or pipe. 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 within one (1) mile of and drains to an Impaired Water. The Impaired Water is Lower Coon Creek. Lower Coon Creek is impaired for (Aquatic Life (Macro-invertebrates)/Aquatic Recreation (E. coli). The major stressors are Total Suspended Solids (TSS)/Total Phosphorus (TP)/E.coli. There is an EPA approved Total Maximum Daily Load (TMDL) or Waste Load Allocation (WLA) for this water.

There are new impervious surfaces proposed as part of this project.

Wetlands: Wetlands do exist on-site according to the 1987 Federal manual, NWI, PWI and Soil Survey. Wetlands have not been delineated. The wetland boundary has not been checked.

The wetland is not a DNR protected water.

The total proposed wetland impact is 0 square feet.
The applicant does 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 and is not required to.

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:** $2,025  
**Wetland Escrow:** $N/A
There are not ditch liens on the property.

**ISSUES/CONCERNS:**

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<tr>
<th>ISSUE</th>
<th>NEED</th>
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<tbody>
<tr>
<td>Escrows: $2,000 + (0.05 ac * $500/ac) = $2,025</td>
<td>1. Receipt of escrows.</td>
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<td>Ditches: Work below the OHW requires DNR authorization.</td>
<td>2. Provide DNR Public Waters Works Permit or equivalent.</td>
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<td>Stormwater &amp; Hydraulics: Location of armor abutment with riprap appears to narrow bridge opening. Bridge opening should match existing conditions. Riprap class not noted on plans.</td>
<td>3. Clarify location of abutments and riprap. Ensure bridge opening matches existing opening. Provide cross sections. 4. Class 3 riprap is recommended at abutments. Provide details.</td>
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<td>Soils &amp; Erosion Control: Redundant erosion control required to protect the Creek. It is unclear if dewatering is needed during construction of the proposed project.</td>
<td>5. Update erosion control plan to include redundant erosion control practices. 6. Provide statement whether dewatering will be required for the construction of the proposed project. If yes, provide well-field location, rates, discharge location, schedule and quantities.</td>
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**RECOMMENDATION:** Table with 6 Stipulations

**Stipulations:**

1. Receipt of escrows.
2. Provide DNR Public Waters Works Permit or equivalent.
4. Class 3 riprap is recommended at abutments. Provide details.
5. Update erosion control plan to include redundant erosion control practices.
6. Provide statement whether dewatering will be required for the construction of the proposed project. If yes, provide well-field location, rates, discharge location, schedule and quantities.