COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: February 24, 2020
AGENDA NUMBER: 8
FILE NUMBER: 20-031
ITEM: Street Reconstruction Project 20-1

RECOMMENDATION: Approve with 4 Conditions and 1 Stipulation

APPLICANT: City of Coon Rapids
Attn: Mark Hansen
11155 Robinson Drive
Coon Rapids, MN 55434

PURPOSE: Maintain street pavement conditions and replace poor condition watermain pipes, valves, and hydrants

LOCATION: Various Streets in 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. One or more cumulative acres of land disturbance
5. Endangered, Threatened or Special concern species, elements or communities

EXHIBITS:
2. Project Narrative; by City of Coon Rapids, undated, received 2/5/2020.
5. SHSAM Output Summary; by City of Coon Rapids, undated, received 2/5/2020.

DISTRICT TO INSERT HIGHLIGHTED ESC MAP

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 Pleasure Creek according to the public drainage map. No work is proposed within the ditch.

Ditch Hydraulics: A crossing of the ditch is not proposed.

Erosion and Sediment Control: Soils affected by the proposal are Braham, Hayden, Lino, Isanti, Nymore, and Zimmerman.
- 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 and do have a note to stabilize within seven (7) days of inactivity.
- Adjacent properties and stormwater ponds are not 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 not 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 not protected from sediment-laden water during construction.
• All work adjacent to water or related resource has not 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 tracking 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 not 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.
• Details provided for ESC (riprap, perimeter control, concrete washout, inlet protection, etc.)

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

An assessment of risks to other water and related resources has not been conducted.

Floodplain: There is no floodplain on the property according to the District model and FEMA.

High Water Flooding: Information has not been provided to substantiate low floor elevations and is not needed; no new structures proposed as part of this project.

Groundwater: Geotechnical information collected in September 2019 indicates long term groundwater elevation is present at 5 to 10 feet below the surface.

The project site is within the 10 Year Well Head Protection Area and Drinking Water Supply Management Area, but outside the Emergency Response 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 applicant is the City.

Maintenance: The owner of the Stormwater Management features and treatment practices is the City of Coon Rapids. The Stormwater Treatment Practices (STPs) consisting of the following:
As a requirement of the City’s MS4 program, the city will inspect and maintain the stormwater facilities.

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 provided.

**Stormwater & Hydrology:** Infiltration is allowed within the project area. The 1-inch infiltration is not achieved. The stormwater management features utilize sump manholes with SAFL baffles. Project is within the City of Coon Rapids which has adopted the MIDS performance standard. The 1.1-inch infiltration is not achieved.

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 storm water expected as part of the project. No on-site constructed storm water conveyance channels will be constructed 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 discharges into public ditches are pretreated by sump manholes with SAFL baffles and are designed correctly. 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 Impaired Waters. The Impaired Waters are Coon Creek, Pleasure Creek, and the Mississippi River.

- **Coon Creek** is impaired for Aquatic Life (Macro-invertebrates) and Aquatic Recreation (E. coli). The major stressors are Total Suspended Solids (TSS), Total Phosphorus (TP), and E. coli. There is an EPA approved Total Maximum Daily Load (TMDL) or Waste Load Allocation (WLA) for this water.
- **Pleasure Creek** is impaired for Aquatic Life (Macro-invertebrates) and Aquatic Recreation (E. coli). The major stressors are TSS, TP, and E. coli. There is an EPA approved TMDL or WLA for this water.
- **The Mississippi River** is impaired for Aquatic Life (Macro-invertebrates), Aquatic Consumption (PCB-F and Mercury), and Aquatic Recreation (Fecal coliform). The major stressors are Nutrients, PCB-F, Mercury, and Fecal coliform. There is an EPA approved TMDL for Mercury for this water. There is not an EPA approved TMDL for Nutrients, PCB-F, or Fecal coliform for this water. There is
not an EPA approved WLA for Nutrients, PCB-F, Mercury, or Fecal coliform for this water.

There are 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.

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

**Wildlife:** The proposed project may 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:** $7,850.00  
**Wetland Escrow:** $N/A

There are not ditch liens on the property.

### ISSUES/CONCERNS:

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<th>ISSUE</th>
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<td>Escrows: $2,000 + (11.7 ac * $500/ac = $7,850.00</td>
<td>1. Receipt of escrows.</td>
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**Soils & Erosion Control:** Erosion and Sediment Control Plan not provided as part of this submittal. The following issues were identified:

a. Adjacent properties and stormwater ponds, water or related resources are not protected from sediment deposition.

b. All storm sewer inlets are not protected from sediment-laden water during construction.

c. Construction entrance points are not clearly located on the erosion and sediment control plan.

d. The erosion and sediment control plan does not provide for the repair and maintenance of all temporary and permanent erosion and sediment control practices.

2. Provide Erosion Control Plan consistent with SWPPP that shows locations of proposed sediment trapping BMPs and addresses the following:

   a. Perimeter control:
      - Double row of perimeter control adjacent to Pleasure Creek along 89th Ave NW and Norway St NW
      - Perimeter control around limits of construction for CB-1 and 18” RCP storm sewer adjacent to Lower Coon Creek.

   b. Inlet protection for existing and proposed catch basins

   c. Rock construction entrances

   d. Provide for the repair and maintenance of all temporary and permanent erosion and sediment control practices
The project does require dewatering; an assessment of risks to other water and related resources has not been conducted.

3. Provide MnDNR Water Appropriation Permit.

**Stormwater & Hydrology:** The 1/1.1-inch infiltration is not achieved. The applicant demonstrated a good faith effort to infiltrate runoff to the Maximum Extent Practicable. No infiltration practices are proposed.

**Wildlife:** The proposed project may include endangered or threatened species, rare natural communities, colonial waterbird nesting sites, migratory waterfowl concentration areas, deer wintering areas or wildlife travel corridors.

4. Provide acknowledgement that Blanding’s Turtle fact sheets/flyers will be provided to contractors.

### RECOMMENDATION:
Approve with 4 Conditions and 1 Stipulation

### Conditions:
1. Receipt of escrows.
2. Provide Erosion Control Plan consistent with SWPPP that shows locations of proposed sediment trapping BMPs and addresses the following:
   a. Perimeter control:
      - Double row of perimeter control adjacent to Pleasure Creek along 89th Ave NW and Norway St NW
      - Perimeter control around limits of construction for CB-1 and 18” RCP storm sewer adjacent to Lower Coon Creek.
   b. Inlet protection for existing and proposed catch basins
   c. Rock construction entrances
   d. Provide for the repair and maintenance of all temporary and permanent erosion and sediment control practices
3. Provide MnDNR Water Appropriation Permit.
4. Provide acknowledgement that Blanding’s Turtle fact sheets/flyers will be provided to contractors.

### Stipulations:
1. Submittal of as-builds for sediment sump manholes (sump elevation, invert elevations) and proof of installation of the SAFL Baffles.