COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: March 11, 2019
AGENDA NUMBER: 12
FILE NUMBER: 19-047
ITEM: CR Street Reconstruction 19-1

RECOMMENDATION: Table with 3 Stipulations

APPLICANT: Mark Hansen
11155 Robinson Drive
Coon Rapids, MN 55433

PURPOSE: Reconstruction of 4 miles of local City streets and installation of 1,905 LF of sidewalk

LOCATION: Various City Streets; Coon Rapids
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. The lands and waters that have been, or may be covered by the regional flood.
6. Activities upstream from land that is dependent upon removal of water from the soil profile for their continued use (Drainage Sensitive Land Uses)

EXHIBITS:
1. Construction Plan set (27 sheets); by City of Coon Rapids, dated 2/19/19, received 2/26/19.
2. Project Narrative; by City of Coon Rapids, undated, received 2/27/19.
3. Pavement and Geotechnical Evaluation Report; by Braun Intertec, dated 1/14/19, received 2/27/19.
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 57 according to the public drainage map. The approved/as-built elevations through this property are 852.1 ft MSL at the downstream end and 852.2 ft MSL at the upstream end, and 0.06% slope. Existing elevations, slopes and condition of the ditch are 853.8 ft MSL at the downstream end and 853.9 ft MSL at the upstream end and represent a 1.7 foot variance from the as-built elevations. Alternatives to repair and additional drainage have been considered and reviewed.

The ditch is a 5th order stream. The ditch serves the primary role of Trunk drainage system. The ditch serves approximately 0 acres of agricultural land. Land use in the area is toward residential. There are flooding concerns upstream and/or downstream.

The ditch has been inspected. Existing elevations, slopes and condition of ditch are good. The ditch is not in need of repair.

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

Erosion and Sediment Control: Soils affected by the proposal are Duelm, Isanti, Lino, Markey, Meehan, Nymore, Rifle, Sartell, and Zimmerman.

- Stabilizing vegetation is proposed for disturbed areas within seven (7) days of rough grading.
- Soil stockpiles have not been proposed to be fitted with sediment-trapping measures to prevent soil loss.
- Stabilizing soil stockpiles is not proposed within seven (7) days of inactivity.
- Adjacent properties and stormwater ponds are not protected from sediment deposition. Double row of perimeter control at waterbodies/creeks/wetlands
- Construction schedules detailing when sediment trapping measures will occur; stabilization of earthen structures and the general timing of construction phases have been provided.
- 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 for ESC (riprap, perimeter control, concrete washout, inlet protection, etc.)

Dewatering: Shallow ground water may exist on site. The project does not require dewatering.

Floodplain: There is floodplain on the property near 131st Ave project area according to the District model and FEMA. The District’s floodplain elevation is at 862.4 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 is not needed to substantiate low floor elevations, no structures proposed.

Groundwater: Geotechnical information collected in August and November 2018 indicates long term groundwater elevation is present at 13 feet below the surface.

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

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.

Property owners affected by changes in drainage should be notified and acknowledge the changes proposed.

Maintenance: No Stormwater Management features or treatment practices are proposed.

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

Stormwater & Hydrology: Infiltration is allowed within the project area. The 1-inch infiltration is not achieved. 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 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 as part of the project. No concentrated storm water proposed as part of the 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 discharges into wetlands are not pretreated. 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, Sand Creek, and Crooked Lake. Coon Creek and Sand Creek are impaired for Aquatic Life (Macro-invertebrates) and Aquatic Recreation (E. coli). Crooked Lake is impaired for Aquatic Consumption. The major stressors for Coon Creek and Sand Creek are Total Suspended Solids (TSS), Total Phosphorus (TP), and E.coli. The major stressor for Crooked Lake is Mercury. There is an EPA approved Total Maximum Daily Load (TMDL) or Waste Load Allocation (WLA) for Coon Creek and Sand Creek. There is an EPA approved TMDL for Crooked Lake.

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.

**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 will occur.

**Performance Escrow:** $9,500.00

**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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<tr>
<td>Escrows: $2,000 + (15 ac * $500/ac) = $9,500.00</td>
<td>1. Receipt of escrows.</td>
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<td>Stormwater &amp; Hydraulics: The applicant is not meeting the volume management requirement equivalent to infiltrating runoff from the first inch of precipitation. All projects in the Coon Creek Watershed District must meet this requirement.</td>
<td>2. If applicants cannot meet the volume management requirement due to site constraints in its entirety, they must meet it to the greatest extent practical and explain why it cannot be met.</td>
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<td>Soils &amp; Erosion Control: Provide SWPPP with Erosion Control Plan that satisfies District Requirements.</td>
<td>3. Provide SWPPP with Erosion Control Plan that includes the following: a. Soil stockpiles will be fitted with approved sediment-trapping measures and be stabilized within 7 days of inactivity. b. Show perimeter control on adjacent to neighboring properties. c. Show inlet protection for all inlets within construction areas. Provide detail of approved inlet protection. d. Show double row perimeter control adjacent to all water resources. e. Show construction entrances on plans. f. Add note to erosion and sediment control plan to repair and maintain all temporary and permanent erosion and sediment control practices.</td>
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RECOMMENDATION: Table with 3 Stipulations

Stipulations:

1. Receipt of escrows.
2. If applicants cannot meet the volume management requirement due to site constraints in its entirety, they must meet it to the greatest extent practical and explain why it cannot be met.
3. Provide SWPPP with Erosion Control Plan that includes the following:
a. Soil stockpiles will be fitted with approved sediment-trapping measures and be stabilized within 7 days of inactivity.
b. Show perimeter control on adjacent to neighboring properties.
c. Show inlet protection for all inlets within construction areas. Provide detail of approved inlet protection.
d. Show double row perimeter control adjacent to all water resources.
e. Show construction entrances on plans.
f. Add note to erosion and sediment control plan to repair and maintain all temporary and permanent erosion and sediment control practices.