COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: March 11, 2019
AGENDA NUMBER: 14
FILE NUMBER: 19-048
ITEM: CR Street Reconstruction 19-3

RECOMMENDATION: Table with 5 Stipulations

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

PURPOSE: Reconstruction of 3.3 miles of existing local City streets

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.

EXHIBITS:
1. Construction Plan set (40 sheets); by City of Coon Rapids, dated 2/25/19, received 2/26/19.
2. Project Narrative; by City of Coon Rapids, undated, received 2/26/19.
3. Pavement and Geotechnical Evaluation Report; by Braun Intertec, dated 1/14/19, received 2/26/19.
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 are public ditches on the property. The public ditches are County Ditch 17/Springbrook Creek, County Ditch 39, and Pleasure Creek according to the public drainage map.

There are no approved elevations for County Ditch 17 through this property. Existing elevations, slopes and condition of the ditch are 875.4 ft MSL at the downstream end and 879.3 ft MSL at the upstream end. 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 commercial/industrial.
There are flooding concerns upstream and downstream.

The approved elevations and grades for County Ditch 39 through this property are 877.4 ft MSL at the downstream end and 878.1 ft MSL at the upstream end, there is no approved slope. Existing elevations, slopes and condition of the ditch are 876.1 ft MSL at the downstream end and the nearest survey point to the project is 878.1 ft MSL at the upstream end and represent a 1.3 foot variance from the approved elevations. Alternatives to repair and additional drainage have been considered and reviewed.

The ditch is a 3rd order stream. The ditch serves the primary role of collector system.

The ditch serves approximately 0 acres of agricultural land.
Land use in the area is toward residential.
There are flooding concerns upstream and downstream.

There are no approved elevations for Springbrook Creek through this property. Existing elevations, slopes and condition of the ditch are 865.5 ft MSL at the downstream end and 868.9 ft MSL at the upstream end. Alternatives to repair and additional drainage have been considered and reviewed.

The ditch is a 3rd order stream. The ditch serves the primary role of collector system.

The ditch serves approximately 0 acres of agricultural land.
Land use in the area is toward commercial/industrial. There are flooding concerns upstream and downstream.

The ditches have been inspected. Existing elevations, slopes and condition of ditch are good to fair. The ditch are 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 Isanti, Langola, Lino, Markey, Nymore, Seelyeville, 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.
- 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 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 not 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.
- No details for ESC items (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 Cottonwood Street and Holly Street according to the District model and FEMA. The District’s floodplain elevation is at 887.3 feet at Cottonwood Street and at 874.2 feet at Holly Street. The project does not propose to place fill within the floodplain. There are flooding concerns near Cottonwood project area.
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 has portions within the Wellhead Protection Area, 10 Year Well Head Protection Area and 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.

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

Maintenance: No Stormwater Management features or treatment practices proposed as part of the project.

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

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 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 as part of the project. No concentrated storm water proposed as part of the 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 discharges into wetlands are pretreated via overland 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 Impaired Waters. The Impaired Waters are Lower Coon Creek, Sand Creek, Pleasure Creek, Springbrook Creek, and the Mississippi River. Lower Coon Creek, Sand Creek, Pleasure Creek, and Springbrook Creek are impaired for Aquatic Life (Macro-invertebrates) and Aquatic Recreation (E. coli). The Mississippi River is impaired for Aquatic Life (Macro-invertebrates), Aquatic Recreation (Fecal coliform), and Aquatic Consumption (PCB-F and Mercury). The major stressors for Lower Coon Creek, Sand Creek, Pleasure Creek, and Springbrook Creek are Total Suspended Solids (TSS), Total Phosphorus (TP), and E. coli. The major stressors for the Mississippi River are Fecal coliform, Nutrients, PCB-F, and Mercury. The There is an EPA approved Total Maximum Daily Load (TMDL) or Waste Load Allocation (WLA) for Lower Coon Creek, Sand Creek, Pleasure Creek, and Springbrook Creek. There is not an EPA approved TMDL or WLA for the Mississippi River.

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: $9,600.00
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 + (15.2 ac * $500/ac) = $9,600.00</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</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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Creek Watershed District must meet this requirement.

**Soils & Erosion Control:** Provide SWPPP with Erosion Control Plan that satisfies District Requirements.

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<td>3.</td>
<td>Provide SWPPP with Erosion Control Plan that includes the following:</td>
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<td>a. Soil stockpiles will be stabilized within 7 days of inactivity.</td>
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<td>b. Show single row of perimeter control adjacent to neighboring properties and double row perimeter control adjacent to all water resources.</td>
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<td>c. Provide note that precautions will be taken to contain sediment and stabilize the work area during construction.</td>
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<td>d. Show rock construction entrances on plans.</td>
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<td>e. Provide note that street sweeping will occur daily at end of day (EOD).</td>
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<td>f. Provide note to repair and maintain all temporary and permanent erosion and sediment control practices.</td>
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<td>g. Provide detail sheet showing approved best management practices (BMPs).</td>
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**Wetlands:** Wetland credits are proposed to be purchased to replace the wetland impacts.

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<td>4.</td>
<td>Provide proof of purchase for wetland credits.</td>
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**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.

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<td>5.</td>
<td>Provide documentation from the DNR if the proposed project includes endangered or threatened species, rare natural communities, colonial waterbird nesting sites, migratory waterfowl concentration areas, deer wintering areas or wildlife travel corridors</td>
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**RECOMMENDATION:** Table with 5 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. Provide note stating that soil stockpiles will be stabilized within seven (7) days of inactivity.
   b. Show single row of perimeter control adjacent to neighboring properties and double row perimeter control adjacent to all water resources on plans.
   c. Provide note stating that precautions will be taken to contain sediment and stabilize the work area during construction.
   d. Show rock construction entrances on plans.
   e. Provide note stating that street sweeping will occur daily at end of day (EOD).
   f. Provide note to repair and maintain all temporary and permanent erosion and sediment control practices.
   g. Provide detail sheet showing approved best management practices (BMPs).
4. Provide proof of purchase for wetland credits.
5. Provide documentation from the DNR if the proposed project includes endangered or threatened species, rare natural communities, colonial waterbird nesting sites, migratory waterfowl concentration areas, deer wintering areas or wildlife travel corridors.