MEETING DATE: September 9, 2019
AGENDA NUMBER: 13
FILE NUMBER: 19-163
ITEM: Coon Creek Watermain Crossing

RECOMMENDATION: Approve with 3 Stipulations

APPLICANT: City of Andover
            Attn: Dave Berkowitz
            1685 Crosstown Boulevard
            Andover, MN 55304

PURPOSE: Fill, abandon, and bulkhead existing watermain. Install new trenchless watermain at crossing of Coon Creek and Hanson Boulevard.

LOCATION: At crossing of Coon Creek and Hanson Boulevard in Andover, Minnesota
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. Construction Plan set (3 sheets); by Bolton and Menk, dated 7/19/2019, received 8/27/2019.

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 County Ditch 57 according to the public drainage map. The approved/as-built elevations through this property are 864.3 ft MSL at the crossing.

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

No alterations to the ditch are proposed.

Ditch Hydraulics: An underground utility crossing of the ditch is proposed. The approved ditch elevation is 864.30. Top of existing watermain elevation is approximately
858.50. The proposed watermain will be installed such that the top of the new watermain will be two feet below the bottom of the existing watermain.

Erosion and Sediment Control: Soils affected by the proposal are Alluvium.
- Stabilizing vegetation is not 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 and do not 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 not been provided.
- No storm sewer is proposed as part of this project.
- Storm sewer inlets will not be impacted by 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 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.
- Details not provided for ESC (riprap, perimeter control, concrete washout, inlet protection, etc.)

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

Floodplain: There is floodplain on the property according to the District model and FEMA. The District’s floodplain elevation is at 875.9 feet. The project does not propose to place fill within the floodplain. Compensatory storage is not needed. There are flooding concerns upstream.

High Water Flooding: Information has not been provided to substantiate low floor elevations and is not needed; no structures proposed.

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 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:** 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.

**Stormwater & Hydrology:** No new impervious surfaces are proposed as part of the project. Stormwater requirements do not apply. 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 volume, velocity, and peak water flow rates of stormwater runoff is expected. No concentrated stormwater is proposed as part of this project. No on-site constructed stormwater conveyance channels are proposed as part of this 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 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 County Ditch 57. County Ditch 57 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) and Waste Load Allocation (WLA) for this 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

**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 too.

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: $2,050.00
Wetland Escrow: $ N/A
There are not ditch liens on the property.

ISSUES/CONCERNS:

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<tr>
<th>ISSUE</th>
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<tr>
<td>Escrows: $2,000 + (0.1 ac * $500/ac = $2,050.00</td>
<td>1. Receipt of escrows.</td>
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<td>Ditch Hydraulics: An underground utility crossing is</td>
<td>2. An as-built will need to be provided that ensures there is a 4-foot</td>
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<td>proposed as part of this project.</td>
<td>separation from the bottom of the approved County Ditch 57 elevation</td>
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<td>(864.30 ft NAVD 88) to top of the watermain.</td>
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<td>Soils &amp; Erosion Control: Stabilizing vegetation is not</td>
<td>3. Update the Erosion Control Plan to include the following:</td>
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<td>proposed for disturbed areas within seven (7) days</td>
<td>a. Provide note that stabilizing vegetation is proposed for</td>
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<td>of rough grading.</td>
<td>disturbed areas with 7 days of rough grading or inactivity.</td>
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<td>b. Provide note that soil stockpiles will be fitted with sediment-</td>
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<td>trapping measures and be stabilized within 7 days of inactivity.</td>
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<td>c. Extend double row silt fence south to provide perimeter control</td>
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<td>between excavation area and stormwater pond east of Hanson Blvd</td>
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<td>and south of Coon Creek or the Wetland east of Hanson Blvd and</td>
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<td>north of Coon Creek are not adequately protected from sediment-</td>
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<td>laden runoff.</td>
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<td>d. Extend double row silt fence north to provide perimeter control</td>
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general timing of construction phases have not been provided.

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 not been made for cleaning road surfaces where sediment is transported by the end of the day.

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 not provided for ESC (riprap, perimeter control, concrete washout, inlet protection, etc.)

RECOMMENDATION: Approve with 3 Stipulations

Stipulations:

1. Receipt of escrows.
2. An as-built will need to be provided that ensures there is a 4-foot separation from the bottom of the approved County Ditch 57 elevation (864.30 ft NAVD 88) to top of the watermain.
3. Update the Erosion Control Plan to include the following:
   a. Provide note that stabilizing vegetation is proposed for disturbed areas with 7 days of rough grading or inactivity.
   b. Provide note that soil stockpiles will be fitted with sediment-trapping measures and be stabilized within 7 days of inactivity.
   c. Extend double row silt fence south to provide perimeter control between excavation area and stormwater pond east of Hanson Blvd and south of Coon Creek.
d. Extend double row silt fence north to provide perimeter control between excavation area and Wetland east of Hanson Blvd and north of Coon Creek.
e. Provide construction schedule detailing the general timing of construction activities.
f. Provide note to minimize transport of sediment by runoff or vehicle tracking onto paved surfaces.
g. Provide note that impervious surfaces where sediment is transported will be swept daily.
h. Provide note that the repair and maintenance of all temporary and permanent erosion and sediment control practices will occur as needed.
i. Provide details sheet showing all ESC practices anticipated during construction.