COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: June 10, 2019
AGENDA NUMBER: 14
FILE NUMBER: 19-112
ITEM: Catcher’s Creek East/Shadowbrook North Utilities

RECOMMENDATION: Approve with 4 Stipulations

APPLICANT: City of Andover
           Attn: Dave Berkowitz
           1685 Crosstown Blvd NW
           Andover, MN

PURPOSE: Underground utility crossing below Coon Creek

LOCATION: Alder St NW from Coon Creek to 144th NW, Andover 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. 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 (11 sheets); by WSB, dated 5/24/19, received 5/29/19.
2. Project Summary Letter; by WSB, dated 5/29/19, received 5/29/19.

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 is a public ditch on the property. The public ditch is County Ditch 57 (Coon Creek) according to the public drainage map. The approved/as-built elevations through this property are 869.43 ft MSL at the downstream end and 869.48 ft MSL at the upstream end.

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.
There are flooding concerns upstream and/or downstream.

Ditch Hydraulics: An underground crossing of the ditch is proposed for utility installation.

Erosion and Sediment Control: Soils affected by the proposal are Lino and Zimmerman. Erosion and sediment control plans have been prepared in accordance with the SWPPP submitted under PAN 17-208.
- 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 and do have a note to stabilize within seven (7) days of inactivity.
- Adjacent properties and stormwater ponds are 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.
- Stabilization adequate to prevent erosion has been provided at the outlets of all storm sewer pipes.
- All storm sewer inlets are protected from sediment-laden water during construction.
- All work adjacent to water or related resource has 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 clearly located on the erosion and sediment control plan.
- The erosion and sediment control plan does 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. It is unknown if dewatering is anticipated.

Floodplain: There is floodplain on the property according to the District model and FEMA. The District’s floodplain elevation is at 880.6 feet. The project does not propose to place fill within the floodplain. There are no flooding concerns upstream or downstream.

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

Groundwater: Geotechnical information collected in December 2018 indicates long term groundwater elevation is present at 3 to 19 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.

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 proposed as part of this project.

Easements: The proposed project does include ditch maintenance easement. A ditch maintenance easement is required.

Stormwater & Hydrology: No impervious proposed as part of the project, infiltration requirements do not apply.

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 volume, velocity and peak water flow rates of stormwater runoff anticipated as part of the project. No concentrated storm water proposed. No on-site constructed storm water conveyance channels proposed.

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/stormwater basins 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 an Impaired Water. The Impaired Water is Coon Creek. 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 no 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 been delineated. The most recent delineation was approved on 4/11/19. The wetland boundary has been checked.

The wetland is not a DNR protected water.

The total proposed wetland impact is 0 square feet.

The applicant does not 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 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 will occur.

**Performance Escrow:** $2,430
**Wetland Escrow:** $ N/A

There are not ditch liens on the property.

**ISSUES/CONCERNS:**

<table>
<thead>
<tr>
<th>ISSUE</th>
<th>NEED</th>
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<tbody>
<tr>
<td>Escrows:</td>
<td>1. Receipt of escrows.</td>
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<tr>
<td>$2,000 + (0.86 ac * $500/ac = $2,430</td>
<td>2. As-builts must be provided to ensure four-foot separation between 869.6</td>
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<tr>
<td>Ditches:</td>
<td></td>
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<tr>
<td>Four-foot separation from top of utility line to bottom of approved ditch</td>
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must be provided. Approved ditch elevation is 869.6 ft (NAVD 88).

| Soils & Erosion Control: It is unclear if dewatering is needed during the construction of the proposed project. If soil stockpiles are proposed, they will need to be placed behind the double row perimeter control, away from Creek. | NAVD 88 and top of utility line is provided. |
| 3. 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. |
| 4. If soil stockpiles will be used, show location on erosion control plans behind double row silt fence, away from Creek. |

**RECOMMENDATION:** Approve with 4 Stipulations

**Stipulations:**

1. Receipt of escrows.
2. As-buils must be provided to ensure four-foot separation between 869.6 NAVD 88 and top of utility line is provided.
3. 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.
4. If soil stockpiles will be used, show location on erosion control plans behind double row silt fence, away from Creek.