COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: July 10, 2017
AGENDA NUMBER: 13
FILE NUMBER: 17-122
ITEM: City of Andover – Watermain Crossing – Catcher’s Creek 2nd Addition Utility & Street Improvements

RECOMMENDATION: Approve with 3 Stipulations

APPLICANT: City of Andover
Attn: David Berkowitz, P.E.
1685 Crosstown Blvd NW
Andover, MN 55304

PURPOSE: Watermain Extension under Coon Creek

LOCATION: Intersection of Prairie Rd and 145th Ave 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. 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 (26 sheets); by City of Andover, dated April 18, 2017, received June 28, 2017
3. Email Correspondence with the DNR; by WSB & Associates, dated June 8, 2017, received June 28, 2017.

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. Ditch 57 was established in 1917. The ditch has been inspected. The ditch was last inspected in 2014. The approved elevations through this property are 868.2 ft MSL (1988 datum). The 2014 observed elevations through this property are 869.2 ft MSL (1988 datum). Existing elevations represent a 1 foot variance from the approved elevation. The ditch is a 5th order stream. The ditch serves the primary role of a trunk drainage system. The ditch serves approximately 3658 acres of agricultural land. Land use in the area is toward single family residential. There are no flooding concerns upstream or downstream. Existing elevations, slopes and condition of ditch are fair. Alternatives to repair and additional drainage have been considered and reviewed. The ditch is not in need of repair.

Ditch Hydraulics: An underground crossing of the ditch is proposed as a directional bore.

Erosion and Sediment Control: Soils affected by the proposal are Alluvial Land, Markey, and Zimmerman.
- Stabilizing vegetation is proposed for disturbed areas within seven (7) days of rough grading.
- Soil stockpiles are not anticipated as part of the project
- 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.
- Stormwater runoff does not pass through a sediment basin or other sediment trapping BMP with equal or greater storage capacity and is not needed.
- Impacts to existing storm sewer pipes are not expected as part of this project.
- All work adjacent to water or related resource has 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 racking 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 not 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.

Dewatering: It is unknown if shallow groundwater exists on site. The project does not require dewatering.

Floodplain: There is floodplain on the property according to the District model and FEMA. The FEMA floodplain elevation is at 877.9 feet. The project does not propose to place fill within the floodplain. The total floodplain impact is 0 acre-feet. 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 as no buildings are proposed as part of this project.

Groundwater: Geotechnical information was not provided and is not needed.

The site is not within a Municipal Drinking Water Supply Area (DWSMA).

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.

Maintenance: No Stormwater Management features or treatment practices are proposed.
Stormwater & Hydrology: Infiltration is allowed within the project area. No changes to stormwater are expected as part of the project. 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. No concentrated storm water is 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 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 (Coon Creek). County Ditch 57 (Coon Creek) is impaired for Aquatic Life (Macro-invertebrates) and Aquatic Recreation (E. coli). The major stressors are Total Phosphorus (TP) and 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 not exist on-site according to the 1987 Federal manual, NWI, PWI and Soil Survey.

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.

Performance Escrow: $2,000.30
Wetland Escrow: $ N/A

There are not ditch liens on the property.

ISSUES/CONCERNS:

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<th>ISSUE</th>
<th>NEED</th>
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<tr>
<td>Escrows: $2,000 + (.0006 ac * $500/ac) = $2,000.30</td>
<td>1. Receipt of escrows.</td>
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<td>Soils &amp; Erosion Control:</td>
<td>2. a. Update Erosion Control Plan to provide for the cleaning of sediment</td>
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<tr>
<td>a. Provisions have not been made to minimize transport of sediment (mud) by</td>
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runoff or vehicle racking onto the paved surface.  
<table>
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<th>Wildlife: The proposed project does include the threatened species Loggerhead Shrike.</th>
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<td>b. Provisions have not been made for cleaning road surfaces where sediment is transported by the end of the day.</td>
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| (mud) by runoff or vehicle racking onto the paved surface.  
| b. Update Erosion Control Plan to provide for the cleaning of road surfaces where sediment is transported by the end of the day. |
| 3. Preserve scattered shrubs and trees. |

**RECOMMENDATION:** Approve with 3 Stipulations

**Stipulations:**

1. Receipt of escrows.
2. a. Update Erosion Control Plan to provide for the cleaning of sediment (mud) by runoff or vehicle racking onto the paved surface. 
   b. Update Erosion Control Plan to provide for the cleaning of road surfaces where sediment is transported by the end of the day.
3. Preserve scattered shrubs and trees for nesting for Loggerhead Shrike.