COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: May 22, 2017
AGENDA NUMBER: 13
FILE NUMBER: 17-094
ITEM: Culvert Replacement CSAH 17 @ 149th Ave

RECOMMENDATION: Approve with 2 Stipulations

APPLICANT: Anoka County Highway Department
Attn: Matt Herzog
1440 Bunker Lake Blvd NW
Andover, MN 55304

PURPOSE: 48” CMP Replacement

LOCATION: CSAH 17 @ 149th, Ham Lake, MN

APPLICABILITY:
1. Any work within or adjacent to a Public Ditch within the Watershed District.
2. Any work in or adjacent to wetlands, lakes or water courses.
3. The lands and water that have been, or may be covered by the regional flood.
4. Activities upstream from land that is dependent upon removal of water from the
soil profile for their continued use (Drainage Sensitive Uses)
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. Permit Application for Crossing or Culvert Installation and required documents by
Anoka County Highway Department, dated 5/10/17, received 5/10/17.

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 no public ditch on the property.

Ditch Hydraulics: A crossing of the ditch is proposed on a private ditch that is 450 feet
upstream of CD 44-6. The proposed crossing involves the replacement of a culvert. The
proposed culvert is of sufficient hydraulic capacity.

Erosion and Sediment Control: Soil affected by the proposal is Rifle.
- 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.
- Construction schedules detailing when sediment trapping measures will occur;
stabilization of earthen structures and the general timing of construction phases
have not been provided.
- Stormwater runoff does pass through a sediment basin or other sediment trapping
BMP with equal or greater storage capacity and is not needed.
- No additional storm sewer affected during construction of the 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 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: Shallow ground water may exist on site. The project does not require dewatering.

Floodplain: There is floodplain on the property according to FEMA. The District Atlas 14 model predicts the 100-year elevation for the subwatershed at 894.1 feet. The total floodplain impact is 0 acre-feet within the floodway.

Groundwater: Surficial ground water is present at unknown feet. The site does not include groundwater sensitive areas. No buildings or infiltration proposed, information is not needed to substantiate low floor elevations.

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.

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 the project.

Easements: The proposed project does include a ditch maintenance easement or utility line crossings. It is not necessary to notify property owners affected by changes in drainage because this is a culvert replacement matching hydraulics.

Stormwater & Hydraulics: No new impervious proposed as part of the project, infiltration requirements do not apply. 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. Concentrated storm water leaving a site is discharged directly into a well-defined natural or man-made off-site
receiving channel or pipe. No on-site constructed storm water conveyance channels are proposed.

The culvert is a 65 foot long and 48 inch wide pipe. Plans indicate that the inlet elevation is 889.3 and that the invert is significantly separated from wetland boundary.

**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 CD 44. CD 44 is impaired for Aquatic Life (Macro-invertebrates)/Aquatic Recreation (E. coli). The major stressor is E.coli. There is not 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 not been delineated. There are no proposed impacts.

**Performance Escrow:** $2,050.00

**Wetland Escrow:** $ N/A

There are not ditch liens on the property.

**ISSUES/CONCERNS:**

<table>
<thead>
<tr>
<th>ISSUE</th>
<th>NEED</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Escrows:</strong> $2,000 + (0.1 ac * $500/ac) = $2,050.00</td>
<td>1. Receipt of escrows.</td>
</tr>
<tr>
<td><strong>Soils &amp; Erosion Control:</strong></td>
<td>2. Provide updated erosion control plan with the following information:</td>
</tr>
<tr>
<td></td>
<td>a. Update construction plans to stabilize vegetation in 7 days of rough grading or inactivity.</td>
</tr>
<tr>
<td></td>
<td>b. Provide note that soil stockpiles have been proposed to be fitted with sediment-trapping measures to prevent soil loss.</td>
</tr>
<tr>
<td></td>
<td>c. Provide a note that any sediment tracked onto the street from</td>
</tr>
<tr>
<td>Soil stockpiles have not been proposed to be fitted with sediment-trapping measures to prevent soil loss.</td>
<td></td>
</tr>
<tr>
<td>Provisions have not been made to minimize transport of sediment (mud) by runoff or vehicle racking onto the paved surface.</td>
<td></td>
</tr>
<tr>
<td>Provisions have not been made for cleaning</td>
<td></td>
</tr>
</tbody>
</table>
road surfaces where sediment is transported by the end of the day. | construction activities will be removed on a daily basis.  

| d. Provide a note that any sediment tracked onto the street from construction activities will be removed on a daily basis |

**RECOMMENDATION:** Approve with 2 Stipulations  

**Stipulations:**  
1. Receipt of escrows.  
2. Provide updated erosion control plan with the following information:  
   a. Update construction plans to stabilize vegetation in 7 days of rough grading or inactivity.  
   b. Provide note that soil stockpiles have been proposed to be fitted with sediment-trapping measures to prevent soil loss.  
   c. Provide a note that any sediment tracked onto the street from construction activities will be removed on a daily basis.  
   d. Provide a note that any sediment tracked onto the street from construction activities will be removed on a daily basis.