COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: June 27, 2016
AGENDA NUMBER: 8
FILE NUMBER: 16-081
ITEM: Anoka County CR 60 Culvert Replacement

RECOMMENDATION: Approve with 1 Stipulation

APPLICANT: Anoka County HWY. Department
1440 Bunker Lake Blvd. NW
Andover, MN 55304

PURPOSE: Replacement of existing 84 inch CMP with twin 54 inch smooth walled corrugated plastic pipe

LOCATION: Near intersection of Constance Blvd. and Tippecanoe St. NE, Ham Lake MN
APPLICABILITY:

1) Bridges and culverts (1.06 sub 1)
2) Any work in or adjacent to wetlands, lakes or water courses.
3) Highly erodible soils

EXHIBITS:

1) Map showing location of culvert crossing by Anoka County; no date provided; received 6/15/2016.
2) Excerpts from the County Special Provision 2016 Spec book; no date provided; received 6/15/2016
3) Natural Heritage Information data request forms; no date provided; received 6/15/2016

PREVIOUS ACTION TAKEN: This application was initially submitted on May 11, 2016. The application was tabled at the May 23, 2016 meeting with the following 4 stipulations:

1. Receipt of escrows.
2. Provide erosion control plan stating that all disturbed areas will be stabilized within 7 days of rough grading.
3. Alternative alignment and pipe sizes for this project need to be revisited to meet the drainage requirements of the District.
4. Contact the DNR to have a DNR Natural Heritage Information System (NHIS) data review completed to determine if any records of state-protected species may be located within the boundary of this project.
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 11 according to the public drainage map. County Ditch 11 was established in 1891. The ditch was last inspected in 2011. The ditch is not in need of repair. The project site is tributary to County Ditch 11.

The approved/as-built elevations and grades through this property are 891.42 ft NAVD 88 (D/S) and 891.45 ft NAVD 88 (U/S) and 0.03% slope. Existing elevations, slopes and condition of the ditch are fair and represent a 2.6 ft variance from the as-built elevations. Alternatives to repair and additional drainage have not been considered and reviewed.

The ditch is a fourth order stream. The ditch serves the primary role of
  • Agricultural drainage

The ditch serves approximately 244 acres of agricultural land. Land use in the area is agriculture, single family residential and vacant. There are flooding concerns upstream and downstream.

A 16.5 foot grass strip is required.
A 16.5 foot grass strip is present
The 16.5 foot grass strip has been inspected. (103E.075 subd 4)
The grass strip is not in need of repair or maintenance.

Ditch Hydraulics: A crossing of the ditch is proposed. The proposed crossing involves the installation/replacement of a culvert. The proposed culvert has sufficient hydraulic capacity.

Erosion and Sediment Control: Soils affected by the proposal are Rifle.
  • Stabilizing vegetation is proposed for disturbed areas within seven (7) days of rough grading.
  • 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.
  • 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 does not exist on site  
The project does not require dewatering  

There is floodplain on the property according to the District model. The project does propose to place fill within the floodplain. The total floodplain impact is 0 acre-feet. The proposed impact is within the flood fringe. Compensatory storage is not provided. There are flooding concerns upstream and/or downstream.  

Groundwater: Geotechnical information has not been submitted and is not needed.  

Historic Sites: The proposed project does not include sites of historic or archeological significance.  

Hydraulics: A crossing of the ditch is proposed. The proposed crossing involves the installation/replacement of a bridge/culvert. The proposed bridge/culvert is of sufficient hydraulic capacity.  

Local Planning & Zoning: The proposed project is consistent with local planning and zoning. There is an approved local water plan.  

Maintenance: The Owner of the Stormwater Management features and treatment practices is Anoka County. The Stormwater Treatment Practices (STPs) consisting of the following:  

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<tr>
<th>Stormwater Treatment Practices</th>
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<td>N/A</td>
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Easements:  
The proposed project does include ditch maintenance easement. A ditch maintenance easement is required.  

Stormwater & Hydrology: Infiltration is allowed within the project area. The 1-inch infiltration is not achieved and is not needed in this case.  

Drainage sensitive uses exist downstream from the proposed site  

The proposed project does not cause an exceedence 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/are not 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 not within one (1) mile and drains to an Impaired 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.

**Wetland Replacement Plan:** A wetland replacement plan has not been submitted and is not needed.

**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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The endangered or threatened species, rare natural community is threatened Black Huckleberry (Gaylussacia baccata)

The applicant has contacted the MDNR natural heritage or endangered species program.

**Performance Escrow:** $2,050.00
**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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<td>Escrows: $2,000 + (0.10 ac * $500/ac) = $2,050.00</td>
<td>1. Receipt of escrows</td>
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</table>

**RECOMMENDATION:** Approve with 1 Stipulation

**Stipulations:**
1. Receipt of escrows.