COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: June 25, 2018
AGENDA NUMBER: 11
FILE NUMBER: 18-116
ITEM: Soderville Drive Reconstruction

RECOMMENDATION: Approve with 3 Stipulations

APPLICANT: City of Ham Lake
15544 Central Ave NE
Ham Lake, MN 55304

PURPOSE: Road Reconstruction

LOCATION: Soderville Drive, Ham Lake

APPLICABILITY:
1. Any work in or adjacent to wetlands, lakes or water courses
2. Endangered, Threatened or Special concern species, elements or communities

EXHIBITS:

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 not a public ditch on the property.
Ditch Hydraulics: A crossing of the ditch is not proposed.

Erosion and Sediment Control: Soils affected by the proposal are Anoka, Lino, Isanti, Zimmerman and Soderville.
- Stabilizing vegetation is proposed for disturbed areas within seven (7) days of rough grading.
- Soil stockpiles have been proposed to be fitted with sediment-trapping measures to prevent soil loss.
- 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 racking onto the paved surface.
- Provisions have been made for cleaning road surfaces where sediment is transported by the end of the day.
- 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. Dewatering is not anticipated as part of the project.

Floodplain: There is no floodplain on the property according to the District model and FEMA.

High Water Flooding: Information has not been provided and is not needed. No structures are 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.

Property owners affected by changes in drainage should be notified and acknowledge the changes proposed.

**Maintenance:** No stormwater management features or treatment practices are proposed for this project.

Easements: The proposed project does not include ditch maintenance easement. A ditch maintenance easement is not required. A maintenance access to all storm water management features is provided.

**Stormwater & Hydrology:** Infiltration is allowed within the project area but is infeasible due to a high water table. The 1-inch infiltration is achieved to the maximum extent practical via roadside ditches.

Drainage sensitive uses do not exist downstream from the proposed site. The rate of post-development runoff from the site does exceed predevelopment rates, but is not anticipated to cause any adverse impacts. Properties and waterways downstream from the project are protected from erosion due to increases in the volume, velocity and peak water flow rates of stormwater runoff. Concentrated storm water leaving a site is discharged directly into a well-defined natural or man-made off-site receiving channel or pipe. All on-site constructed storm water conveyance channels are constructed to withstand the expected velocity from a 2-year frequency storm without erosion.

**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 are pretreated via roadside ditches. 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 not within one (1) mile of an Impaired Water.

There are 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 completed on September 27, 2017. The wetland boundary has not been checked.

The wetland is not a DNR protected water.
The total proposed wetland impact is 4,336 square feet (0.10 acres). The impact is through fill in 7 locations as shown below:

The de minimis is 2,500 sf (type 2, 6, 7, 8). TEP members have been notified with a complete plan and have not been requested to submit comments. The project is not wetland dependent.

The project is not exempt.

The applicant does not need to contact the DNR area hydrologist and the Corps of Engineers.

Two or more alternatives, plus the proposed project, have been submitted. On-site sequencing does apply. The avoidance alternatives are considered good faith efforts. None of the avoidance alternatives are considered feasible and prudent.

1. The applicant suggests that avoidance is not reasonable because there is no alternative. No alternative exists because:
1) The basic purpose of the project cannot reasonably be accomplished at an alternative site, alternative sites are not available, alternative sites are not practical/prudent;

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

Replacement is proposed to be through the Local Road Replacement Program at a ratio of 2:1. The credits will be purchased through the MN Local Government Road Wetland Replacement Program (LGRWRP).

The TEP has not approved the wetland mitigation plan.

**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 endangered or threatened species, rare natural community is Blanding’s Turtle. The applicant has contacted the MDNR natural heritage or endangered species program. The applicant has indicated that contact was made prior to April 4, 2018. MDNR has responded to the applicant.

**Performance Escrow:** $3,650.00
**Wetland Escrow:** $ N/A
There are not ditch liens on the property.

**ISSUES/CONCERNS:**

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<th>ISSUE</th>
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<td>Escrows: $2,000 + (3.3 ac * $500/ac = $3,650)</td>
<td>1. Receipt of escrows.</td>
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<td>Stormwater &amp; Hydraulics: SCS Type II rainfall distribution used in HydroCAD model instead of MSE 3.</td>
<td>2. Use MSE 3 rainfall distribution in HydroCAD model.</td>
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<td>Wetlands: Wetland credits are proposed to be obtained through the Local Government Road Wetland Replacement Program (LGRWRP) to replace the wetland impacts.</td>
<td>3. Obtain Technical Evaluation Panel Concurrence of eligibility to participate in LGRWRP and confirmation of participation from BWSR.</td>
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**RECOMMENDATION:** Approve with 3 Stipulations

**Stipulations:**
1. Receipt of escrows.
2. Use MSE 3 rainfall distribution in HydroCAD model.
3. Provide proof of purchase for wetland credits.
4. Provide documentation from the DNR if the proposed project includes endangered or threatened species, rare natural communities, colonial waterbird
nesting sites, migratory waterfowl concentration areas, deer wintering areas or wildlife travel corridors.