COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: June 22, 2015
AGENDA NUMBER: 8
FILE NUMBER: 15 - 074
ITEM: Sobania Culvert Replacement

RECOMMENDATION: Approve with 3 Stipulations

APPLICANT: Mark Sobania
4122 Crosstown Blvd
Ham Lake MN

PURPOSE: Culvert Replacement

LOCATION: 4122 Crosstown Blvd, Ham Lake
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. Activities upstream from land that is dependent upon removal of water from the soil profile for their continued use (Drainage Sensitive Uses)
5. High water table, outwash and organic soils.
6. High infiltration soils.
7. Highly erodible soils
8. 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.
9. Endangered, Threatened or Special concern species, elements of communities.

EXHIBITS:
1. Permit Application by Mark Sobania, dated 6/1/2015, received 6/2/2015.
2. 15 GIS Figures printed 6/3/2015.

HISTORY & CONSIDERATIONS:
This item has not been before the Board.

FINDINGS:
Ditches and Drainage: There is a public ditch on the property. The ditch is County Ditch 11. The ditch was inspected in 2011. There are approximately 1,000 acres of existing agricultural land affected by this ditch. There are no flooding concerns downstream. There is no additional drainage as part of this project. The public ditch was last repaired publicly in 1973. The ditch is not in need of repair.

Floodplain: There is no floodplain on the property according to FEMA. The District Atlas 14 model predicts the 100-year elevation for the subwatershed at 899.6 feet. The total floodplain impact is 0 acre-feet. Compensatory storage is not needed.

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

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: 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 will be a culvert replacement matching hydraulics.

Soils & Erosion Control: Soil affected by the proposal is Rifle. Stabilizing vegetation is not proposed for disturbed areas within two weeks of rough grading. Adjacent properties are protected from sediment deposition. All wetlands, waterbodies, ponds, infiltration basins and water conveyance systems are protected from erosion and sedimentation. Project site is not greater than 1 acre; an NPDES permit is not required.

Stormwater & Hydraulics: The applicant is not meeting the volume management requirement equivalent to infiltrating runoff from the first inch of precipitation but is not required to for this type of 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. The applicant will replace the existing culvert with a hydraulically equivalent culvert.

Water Quality: Project does not include new impervious drainage areas greater than 1 acre. All discharges into wetlands are pretreated. 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.

Wildlife: The proposed project does include the Blanding’s turtles (Emydoidea blandingii), a state-listed threatened species, which has been reported from the vicinity of the proposed project and may be encountered on site. The proposed project may also include the threatened Black Huckleberry (Gaylussacia baccata). However, due to the type of project proposed, it is not believed the plant would be impacted.

Performance Escrow: $2,005.00

ISSUES/CONCERNS:

| Stormwater & Hydraulics: Existing culvert is listed as a 28” CMP, 37’ in length and inlet elevation of 896.81’ and outlet elevation of 896.14.’ Replacement culvert must be hydraulically equivalent and installed at the existing elevations to ensure there will be no changes in the hydraulics of the channel. | 1. Acknowledge that hydraulically equivalent pipe will be installed at existing elevations (896.81’ inlet and 896.14’ outlet). |
Soils & Erosion Control: Stabilizing vegetation is not proposed for disturbed areas within two weeks of rough grading.

2. Provide note on drawing that stabilizing vegetation is proposed within 14 days of rough grading.

Escrows: $2,000 + (.01 * $500/ac) = $2,005.00

3. Receipt of escrows.

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Stipulations:
1. Receipt of escrows.
2. Provide note on drawing that stabilizing vegetation is proposed within 14 days of rough grading.
3. Acknowledge that hydraulically equivalent pipe will be installed at existing elevations (896.81’ inlet and 896.14’ outlet).