COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: May 27, 2014
AGENDA NUMBER: 9
FILE NUMBER: 2-1-14-054
ITEM: CSAH 78 (Hanson Blvd) at CSAH 20 (161st Ave NW)
Signalization

RECOMMENDATION: Approve with 3 Stipulations

APPLICANT: Anoka County Highway Department
Douglas Fischer
1440 Bunker Lake Blvd
Andover MN 55304

PURPOSE: Install traffic signal on CSAH 78 at CSAH 20 to provide for intersection safety and efficiency

LOCATION: CSAH 78 (Hanson Blvd NW) at CSAH 20 (161st Ave NW), Andover MN
APPLICABILITY:
1. Any work in or adjacent to wetlands, lakes or water courses.
2. One or more cumulative acres of land disturbance.
3. Appropriation and use of groundwater.
4. High water table, outwash and organic soils.
5. High infiltration soils.
6. Highly erodible soils.
7. Endangered, Threatened or Special concern species, elements of communities.

EXHIBITS:
1. CCWD summary memorandum by WSB & Associates, 5-7-14, received 5-8-14.
2. Construction plans by Anoka County Highway Dept., 12-30-13, received 5-8-14.

HISTORY & CONSIDERATIONS: This application was initially submitted on May 6, 2014. Approximately 50% of the proposed project is located within the adjoining Lower Rum River Watershed Management Organization (LRRWMO). However, a majority of the wetland impacts are in Coon Creek Watershed District (CCWD) so the LRRWMO has waived jurisdiction. The DNR has also waived jurisdiction over the public water in the south west corner of the project.

FINDINGS:
Ditches: There is not a public ditch on the property. The project site is tributary to County Ditch 37.

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 feet as referenced to the NGVD 1929 vertical datum. The conversion between the NGVD 1929 datum and the NAVD 1988 Datum is +0.3 feet. The total floodplain impact is 0 acre-feet. Compensatory storage is not needed.

The applicant is required to run the 100-year elevation for interior ponds using the NOAA Atlas 14 information as shown in the following web link.
http://hdsc.nws.noaa.gov/hdsc/pfds/pfds_map_cont.html?bkmrk=mn

Groundwater: Information has not been provided to substantiate low floor elevations and is not needed.

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 not include ditch maintenance easement or utility line crossings.

**Soils & Erosion Control:** Soils affected by the proposal are Marly Muck and fill. Stabilizing vegetation is 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 greater than 1 acre; an NPDES permit is required.

**Stormwater & Hydraulics:** The applicant is meeting the volume management requirement equivalent to infiltrating runoff from the first inch of precipitation because there is a net decrease in impervious surface. 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.

**Water Quality:** Project does not include new impervious drainage areas greater than 1 acre. All discharges into wetlands are not pretreated by a sediment basin/water quality pond but since there is less impervious surface under the proposed project the project meets the District rule. 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.

**Wetlands:** Wetland exists on-site according to the 1987 Federal manual, NWI, PWI and Soil Survey. Wetlands have been delineated. The wetland boundary has been checked.

The wetland is a DNR protected water. The DNR has waived jurisdiction to WCA.

The total proposed wetland impact is 1.41 ac. The impact is through fill in 4 locations. All impacts are directly related to lane expansion and road slopes to add turn lanes and a signal at the intersection.

The applicant has provided three project alternatives:
1. No build
2. Construction of a Roundabout (would result in additional wetland impacts)
3. Current proposal

The TEP has accepted alternative 3 as the most prudent and feasible alternative to alleviate public health safety and welfare concerns at this intersection.

Minimization efforts include:
1. Existing alignment
2. Painted median vs. raised concrete median
3. Minimum shoulder widths  
4. Minimum Clear Zone Width  
5. Minimum Road Slopes  

The TEP has agreed that the applicant has minimized impacts to the maximum extent practical.  

**Wetland Replacement Plan:** The project is proposing replacement at a 2:1 ratio via the BWSR Road Replacement Bank for a total mitigation of 2.82 acres  

Information has been submitted to BWSR supporting this request. BWSR Staff has determined the application for replacement using the Road bank at this time is acceptable.  

**Wildlife:** There are 7 state threatened and endangered species present and 1 federally threatened species. The project is proposing a net decrease in impervious surface. No adverse alteration or significant detrimental impact on a species food supply, security or reproductive cycle or the alteration or removal of a plant species will occur.  

**Performance Escrow:** $8,300  

<table>
<thead>
<tr>
<th>ISSUES/CONCERNS</th>
<th>NEEDS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maintenance:</strong> It is not clear whether property owners affected by changes in drainage have been notified and have acknowledged the changes proposed.</td>
<td>1. Verify that adjacent property owners are aware of the proposed project.</td>
</tr>
<tr>
<td><strong>Wildlife:</strong> The proposed project includes 7 state threatened and endangered species and 1 federally threatened species.</td>
<td>2. Implement measures to avoid and minimize impacts to the threatened and endangered species. Should a species be found, a complete assessment should be conducted.</td>
</tr>
<tr>
<td><strong>Escrow:</strong> $1500 + (12.60 acre *500/acre) = $8,300.00</td>
<td>3. Receipt of escrows.</td>
</tr>
</tbody>
</table>

**RECOMMENDATION:** Approve with 3 Stipulations  

**Stipulations:**  
1. Receipt of escrows.  
2. Verify that adjacent property owners are aware of the proposed project.  
3. Implement measures to avoid and minimize impacts to the threatened and endangered species. Should a species be found, a complete assessment should be conducted.