COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: July 14, 2014
AGENDA NUMBER: 11
FILE NUMBER: 14-080
ITEM: East Central Avenue Service Road

RECOMMENDATION: Table with 5 Stipulations

APPLICANT: Stefan Higgins
City of Blaine
10801 Town Square Dr
Blaine MN 55449

PURPOSE: Reconstruction of East Central Avenue Service Road from 87th Ln to 89th Ln

LOCATION: East Central Avenue Service Road from 87th Ln to 89th Ln, Blaine MN
APPLICABILITY:
1. One or more cumulative acres of land disturbance.
2. High infiltration soils.
3. Highly erodible soils.
4. Any land alteration within 1 mile of an impaired water
5. Endangered, Threatened or Special concern species, elements or communities

EXHIBITS:
1. Construction Plans (15 sheets) by City of Blaine, Dated 5-14-2014, Received 6-18-2014
2. CCWD Permit Submittal Narrative by City of Blaine, Dated 6-13-2014, Received 6-18-2014

HISTORY & CONSIDERATIONS:
The proposed project will reconstruct East Central Service Road from 87th Lane to 89th Lane. The work includes asphalt pavement removal, base and sub-base removal, grading, aggregate base, storm sewer, curb and gutter, and bituminous paving. The project will not result in an increase in impervious surfaces.

FINDINGS:
Ditches and Drainage: There is not a public ditch on the property. The project site is tributary to Laddie Lake. The trend in land use for this drainage area is toward commercial. There are no flooding concerns downstream.

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 904.9 feet. The total floodplain impact is zero acre-feet, within the floodplain. 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: Surficial ground water is present at an unknown elevation. The site does not include groundwater sensitive areas. Information is not required to substantiate low floor elevations, no new structures are proposed.

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 a ditch maintenance easement or utility line crossings. The roadway is located entirely within the existing MnDOT Highway 65 right-of-way. Property owners affected by changes in drainage have been notified and have acknowledged the changes proposed.

**Soils & Erosion Control:** Soils affected by the proposal are Zimmerman. Stabilizing vegetation is proposed for disturbed areas within two weeks of rough grading. Adjacent properties are protected from sediment deposition. All wetlands, water bodies, 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 required to meet the volume management requirement equivalent or to the greatest extent practicable to infiltrating runoff from the first inch of precipitation even with no new impervious area because this is a street reconstruction. 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. It is unknown if the rate of post development runoff from the site exceeds predevelopment rates or not.

**Water Quality:** Project does not include new impervious drainage areas greater than 1 acre. 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. The applicant is proposing to install a SAFL baffle and 3-foot sump in the manhole upstream of the site discharge point to provide sediment removal.

**Wildlife:** The proposed project does include the threatened Gophersnake (*Pituophis catenifer*) species within a one-mile radius of the site. It is suggested that some native prairie restoration be established on the property.

**Performance escrow:** $2,900

<table>
<thead>
<tr>
<th>ISSUES/CONCERNS:</th>
<th>NEED:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Stormwater &amp; Hydraulics:</strong> Although there is no increase in impervious surface, stormwater runoff from the roadway will be directed to a new storm sewer instead of going into the adjacent ditch. The changes to the drainage system are expected to result in an increase in runoff volume and discharge rates. No calculations have been provided to evaluate these changes. The applicant has indicated that because the</td>
<td>1. Provide stormwater runoff calculations for pre- and post-construction conditions to compare discharge rates.</td>
</tr>
<tr>
<td></td>
<td>2. Evaluate stormwater volume management alternatives and if not feasible, provide reasons why.</td>
</tr>
</tbody>
</table>
roadway lies entirely within the MnDOT right-of-way, there are no areas which appear to be conducive for ponding or infiltration facilities. Given the nature of the reconstruction project, the applicant must provide additional reasoning and justification on why the volume management requirements of the Coon Creek Watershed District cannot be met.

| Water Quality: The applicant is proposing to install a SAFL baffle and 3-foot sump in the manhole upstream of the site discharge point to provide sediment removal; however, no sizing calculations have been provided. | 3. Provide vendor sizing calculations for the SAFL baffle. |
| Wildlife: The proposed project does include the threatened Gophersnake (*Pituophis catenifer*) species within a one-mile radius of the site. | 4. It is suggested that some native prairie restoration be established on the property. |
| Escrows: $2,000 + (1.8 acres x $500/acre) = $2,900 | 5. Receipt of escrows |

**RECOMMENDATION:** Table with 5 Stipulations

**Stipulations:**

1. Receipt of escrows.
2. Provide stormwater runoff calculations for pre- and post-construction conditions to compare discharge rates.
3. Evaluate stormwater volume management alternatives and if not feasible, provide reasons why.
4. Provide vendor sizing calculations for the SAFL baffle.
5. It is suggested that some native prairie restoration be established on the property for the threatened Gopher Snake (*Pituophis catenifer*).