COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: June 9, 2014
AGENDA NUMBER: 12
FILE NUMBER: 14 - 062
ITEM: Able Street Improvements

RECOMMENDATION: Approve with 5 Stipulations

APPLICANT: Dan Schluender, City Engineer
City of Blaine
10801 Town Square Dr
Blaine MN 55449

PURPOSE: Street Reconstruction, City project #13-18

LOCATION: Able Street from CSAH 10 to 89th Avenue, Blaine, MN
APPLICABILITY:

1. One or more cumulative acres of land disturbance.
2. Endangered, Threatened or Special concern species, elements of communities.

EXHIBITS:

1. CCWD Permit Submittal Narrative by City of Blaine; dated 5-16-2014, received 5-19-2014.
3. Construction plan set by City of Blaine; dated 5-5-2014, received 5-19-2014.
4. Storm Sewer Analysis worksheet and plans; dated 4-11-2014, received 5-19-2014.

HISTORY & CONSIDERATIONS:

The proposed project will reconstruct Able Street from CSAH 10 to 89th Avenue. The work includes asphalt pavement replacement, new curb and gutter, spot sidewalk replacement and storm sewer structure replacement and addition. Impervious surfaces will increase from 1.80 acres to 2.00 acres.

The existing condition of Able Street is a two-lane 32-foot wide old urban section road with bituminous curb with storm sewer. The runoff from the roadway drains through a series of storm sewer structures and piping, eventually discharging into County Ditch 17.

The project will introduce two new BMPs with an infiltration basin proposed at 13+00 in an existing right of way and a 4’ sump manhole at the intersection of 87th Lane (the last structure on the project prior to discharging into the existing trunk storm line).

FINDINGS:

Ditches and Drainage: There is not a public ditch on the property. The project site is tributary to County Ditch 17. The trend in land use for this drainage area is toward residential. 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 904.7 feet.

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: Ground water is present at depths ranging from 8 to 14 feet below existing grade (elevation not provided). The site does not include groundwater sensitive areas.

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 infiltration basin falls within existing road right of way. No maintenance easement is required. 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 in the permit narrative, but not on the Street & Storm Sewer plan or the SWPPP. Adjacent properties are not protected from sediment deposition. All wetlands, water bodies, ponds, infiltration basins and water conveyance systems are not protected from erosion and sedimentation. Project site is greater than 1 acre; an NPDES permit is not required.

Stormwater & Hydraulics: The applicant is meeting the volume management requirement equivalent to infiltrating runoff from the first inch of precipitation on new impervious area of 0.2 acres. 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.

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.

Wetlands: Wetlands do not exist on-site according to the 1987 Federal Manual and its associated supplement(s), NWI, and Soils Survey.

Wildlife: The proposed project does include the Gophersnake (*Pituophis catenifer*), Plains Hog-nosed Snake (*Heterodon nasicolor*) and Blanding’s Turtle (*Emydoidea blandingii*). Implement measures to avoid and minimize impacts to the threatened and endangered species. Should a species be found, a complete assessment should be conducted.

Performance escrow: $3,980.00

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<th>ISSUES/CONCERNS:</th>
<th>NEEDS:</th>
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<td>Soils &amp; Erosion Control: Stabilizing vegetation is proposed for disturbed areas within two weeks of rough grading in the permit narrative, but not on the Street &amp; Storm Sewer plan or the SWPPP.</td>
<td>1. Add a note to the Street &amp; Storm Sewer plans and/or the SWPPP that stabilizing vegetation is required for all disturbed areas within two weeks of rough grading.</td>
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<tr>
<td>Soils &amp; Erosion Control: Infiltration</td>
<td>2. After initial grading completely</td>
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basins are not protected from erosion and sedimentation during construction. After initial grading the District requires that infiltration basins be completely surrounded by erosion control measures to prevent the basin from clogging.

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<th>Stormwater &amp; Hydraulics: The applicant is meeting the volume management requirement equivalent to infiltrating runoff from the first inch of precipitation for new impervious areas. A post construction test on the infiltration basin will be required to verify functionality. The applicant must acknowledge that they will conduct a post construction test on the infiltration basin by filling the basin to a minimum depth of 6 inches with water and monitor the time necessary to drain. The Coon Creek Watershed District shall be notified prior to the test to witness the results.</th>
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<td>3. The applicant must acknowledge that they will conduct a post construction test on the infiltration basin by filling the basin to a minimum depth of 6 inches with water and monitor the time necessary to drain. The Coon Creek Watershed District shall be notified prior to the test to witness the results.</td>
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<th>Escrows: $2,000 + (3.96 ac x $500/ac) = $3,980.00</th>
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**RECOMMENDATION:** Approve with 5 Stipulations

**Stipulations:**

1. Receipt of escrows.
2. Add a note to the Street & Storm Sewer plans and/or the SWPPP that stabilizing vegetation is required for all disturbed areas within two weeks of rough grading.
3. After initial grading completely surrounded the proposed infiltration basins with erosion control measures to prevent the basin from clogging.
4. The applicant must acknowledge that they will conduct a post construction test on the infiltration basin by filling the basin to a minimum depth of 6 inches with water and monitor the time necessary to drain. The Coon Creek Watershed District shall be notified prior to the test to witness the results.
5. Implement measures to avoid and minimize impacts to the threatened and endangered species. Should a species be found, a complete assessment should be conducted.