COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: April 25, 2016
AGENDA NUMBER: 8
FILE NUMBER: 16-048
ITEM: Foley Blvd

RECOMMENDATION: Approve with 2 Stipulations

APPLICANT: Anoka County Highway Department
1440 Bunker Lake Blvd. NW
Andover, MN 55304

PURPOSE: Reconstruction of Foley Blvd from the intersection of Foley Blvd. and Northdale Blvd to Egret Blvd.; Reconstruction of Northdale Blvd. from the intersection of Foley Blvd. and Northdale Blvd to Dogwood Street.

LOCATION: Intersection of Foley Blvd. and Northdale Blvd to Egret Blvd in Coon Rapids.
APPLICABILITY:
1) Construction of 1 acre or greater of impervious surface
2) Project site is greater than 5 acres, a NPDES permit is required

EXHIBITS:
1) Existing and Proposed Drainage maps by Anoka County Highway Department; dated 3/7/2016; Received 3/16/2016
2) Drainage Grading and Erosion Control Plan Sheets by Anoka County Highway Department; dated 2/27/2016; Received 3/16/2016
4) Stormwater/drainage calculations by Anoka County Highway Department; dated 3/15/2016; Received 3/16/2016
5) Project Narrative by Anoka County Hwy.; No date provided; Received 4/13/2016
6) Revised Plan set; by Anoka County Hwy. Dept.; Dated 2/27/2016; Received 4/13/2016
7) Mids Calculations; by Anoka County Highway Dept.; Received 4/13/2016
8) Sump sizing Calculations; by Anoka County Highway; Received 4/13/2016
HISTORY & CONSIDERATIONS: This is a new application. CCWD assisted the City and County in determining the effect of additional stormwater delivered to the pond at the Northdale Middle School (Northdale Pond). It has been determined that the affects would be minimal and acceptable.
The project was tabled at the March 28, 2016 CCWD Board meeting with the following stipulations:

1. Receipt of escrows.
2. Provide water quality calculations comparing the existing and proposed TSS and TP discharges to both proposed stormwater ponds.
3. Provide erosion control that surrounds the ponds post grading on plan set.
4. Provide a copy of the operations and maintenance agreement for proposed ponds.
5. Provide location of and sizing calculations for all Proposed SAFL Baffle sump manholes.
6. Provide documentation of all flow paths and in its entirety (from the proposed stormwater system to the public or private ditch systems).
7. Provide water quality treatment at or near termination of the proposed 100 and 200 drainage systems via sump manhole at hydrodynamic separator on plan set.
   a) Provide calculations to justify the sizing of said structures.
   b) Provide operations and maintenance agreement for said structures.
8. Revise grading of proposed ponds to include filtration to the maximum extent practicable and provide documentation of all options explored.

**FINDINGS:**

**Ditches:** There is not a public ditch on the property. The project site is tributary to County Ditch 39 and Lower Coon Creek.

**Ditch Hydraulics:**
A crossing of the ditch is not proposed.

**Erosion and Sediment Control:** Soils affected by the proposal are Sartell (SbB). Stabilizing vegetation is proposed for disturbed areas within two weeks (14 days) of rough grading. Adjacent properties and stormwater ponds are protected from sediment deposition. Project site is greater than 1 acre, a NPDES permit is required. All ponds basins and water conveyance systems are not protected from erosion and sedimentation.

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

**Groundwater:** Geotechnical information has been submitted. Geotechnical information collected in March of 2014 indicates long term groundwater elevation is deeper than 8 ft below the surface as no water was observed at the time of drilling.

The site is within a Drinking Water Supply Management Area (DWSMA). The project site is within the 10 Year Well Head Protection Area. The project site is within the Emergency Response Area.

The proposal does not contain a land use discouraged or prohibited by the Safe Drinking Water Supply Act (SDSA).
High Water Flooding:
Information has not been provided to substantiate low floor elevations and is not needed for this project.

Dewatering:
The project does not require dewatering.

Ground Water Dependent Water Resources:
There are not Ground Water Dependent water resources within the cone of depression.

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 have been notified and acknowledge the changes proposed.

Maintenance:
The Owner of the Stormwater Management features and treatment practices is the City of Coon Rapids. The City of Coon Rapids is a MS4 and is required to maintain the Stormwater Treatment Practices (STPs) consisting of the following:

<table>
<thead>
<tr>
<th>Stormwater Treatment Practices</th>
<th>Number</th>
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<tbody>
<tr>
<td>Filtration Pond</td>
<td>2</td>
</tr>
<tr>
<td>Stormwater Catch Basin</td>
<td>192</td>
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</tbody>
</table>

Inspection and maintenance of stormwater facilities will be the responsibility of the City of Coon Rapids. As a requirement of the City’s MS4 program, the city will inspect and maintain the stormwater facilities.

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

Stormwater & Hydrology: Infiltration is not allowed within the project area. The 1-inch infiltration is not achieved. The stormwater management system utilizes wet ponds and regional ponding. 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.

Water Quality: The proposed project does not cause an exceedence of State water quality standards. The project does not contribute to the adverse impact of wetlands through inundation or volume of flow. All work adjacent to 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:** Wetland do not exist on-site according to the 1987 Federal manual, NWI, PWI and Soil Survey.

**Wetland Replacement Plan:** Not required as there are no wetlands on the site.

**Wildlife:** The proposed project does not include endangered or threatened species, rare natural communities, ground water dependent water resources, colonial waterbird nesting sites, migratory waterfowl concentration areas, deer wintering areas or wildlife travel corridors. No substantial 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:** $11,600
**Wetland Escrow:** N/A
There are not ditch liens on the property.

**FINDINGS/ISSUES/CONCERNS:**

<table>
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<tr>
<th>ISSUE</th>
<th>NEED</th>
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<tr>
<td><strong>Water Quality:</strong>&lt;br&gt;The sump/manhole size for CB242 is too small to avoid resuspension of materials given the outlet pipe size and the drainage area. The District recommends sizing this sump to the 5 foot depth, 5 foot diameter option.</td>
<td>1. Revise sump size at CB242 to a 5 foot diameter and 5 foot deep structure.</td>
</tr>
<tr>
<td>Escrow: $2,000 + (19.2 ac * $500/ac) = $11,600.00</td>
<td>2. Receipt of Escrows</td>
</tr>
</tbody>
</table>

**RECOMMENDATION:** Approve with 2 Stipulations

**Stipulations:**
1. Receipt of escrows.
2. Revise sump size at CB242 to a 5 foot diameter and 5 foot deep structure.