COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: May 12, 2014
AGENDA NUMBER: 10
FILE NUMBER: 14 - 009
ITEM: CSAH 11 Access and Safety Improvement Project

RECOMMENDATION: Table with 9 Stipulations

APPLICANT: Matthew Parent
Anoka County Highway Department
1440 Bunker Lake Blvd NW
Andover MN 55304

PURPOSE: Reconstruction of Foley Boulevard from 101st Avenue NW/Hwy 10 access ramps to Egret Boulevard

LOCATION: East of Hwy 10 from the 101st Avenue NW/Hwy 10 access ramps to Egret Boulevard
APPLICABILITY:
1. Any work in or adjacent to wetlands, lakes or water courses.
2. One or more cumulative acres of land disturbance.
3. High water table, outwash and organic soils.
4. High infiltration soils.
5. Highly erodible soils

EXHIBITS:
1. Grading and Development Permit cover letter, dated 01/14/2014, received 01/16/2014.
2. Appendix A – Project Plan Sheets (15 of the 193 sheets), dated 01/09/2014, received 01/16/2014.

HISTORY & CONSIDERATIONS:
Design and construction of the Woodcrest Creek Pond (District project 1239-63) immediately downstream of this project included discussions with Anoka County. The project was constructed during the winter of 2013/14. The volume of the pond was increased to compensate for this upcoming project, with financial contribution by Anoka County for some of the additional cost of a bigger pond.

FINDINGS:
Ditches and Drainage: There is not a public ditch on the property but Woodcrest Creek crosses Foley Blvd. The trend in land use for this drainage area is toward residential. There are 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 893.0 feet.

Groundwater: Ground water information was not submitted. The site does 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 project does not include a ditch maintenance easement or utility line crossings. A drainage and utility easement is not provided for the storm water/infiltration ponds shown on the drainage plan. 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 Lino and Sartell. Stabilizing vegetation is proposed for disturbed areas within two weeks of rough grading. The plans do not show stormwater management practices adjacent to water bodies, all
wetlands, ponds, infiltration basins and water conveyance systems are protected from erosion and sedimentation during construction. Project site is greater than 1 acre; an NPDES permit is required.

**Stormwater & Hydraulics:** The applicant is not meeting the volume management requirement equivalent to infiltrating runoff from the first inch of precipitation. 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 include new impervious drainage areas greater than 1 acre. The plans do not show where the new impervious drainage areas are so it can’t be determined if all discharges into wetlands are pretreated by a sediment basin/water quality pond and are designed correctly.

**Wetlands:** Wetlands do not exist on-site according to the 1987 Federal manual, NWI, PWI and Soil Survey.

**Wildlife:** The proposed project does not include endangered or threatened species, rare natural communities, colonial waterbird nesting sites, migratory waterfowl concentration areas, deer wintering areas or wildlife travel corridors.

**Performance Escrow:** $2,350.00

**ISSUES/CONCERNS:**

| Groundwater: Information has not been provided to substantiate ground water elevation. | 1. Provide soil boring information that includes groundwater elevation to support the infiltration basins 48 hour drawdown. |
| Soils & Erosion Control: Grading and erosion control drawings have not been provided to show that adjacent water bodies, all wetlands, ponds, infiltration basins and water conveyance systems are 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. | 2. Provide grading and/or erosion control plans that show stormwater management practices that adjacent water bodies, all wetlands, ponds, infiltration basins and water conveyance systems are protected from erosion and sedimentation during construction. |
| 3. After initial grading completely surround the proposed infiltration basins with erosion control measures to prevent the basin from clogging. |
### Stormwater & Hydraulics:
The applicant is not meeting the volume management requirement equivalent to infiltrating runoff from the first inch of precipitation or runoff rate and volume control. All projects in the Coon Creek Watershed District must meet these requirements. If applicants cannot meet these requirements due to site constraints in its entirety, they must meet it to the greatest extent practical and explain why it cannot be met.

4. **Provide stormwater runoff calculations that show the site is meeting the volume management requirement equivalent to infiltrating runoff from the first inch of precipitation.**

5. **A post construction test on the infiltration basins will be required to verify the assumed infiltration rates are obtained. The applicant must acknowledge that they will conduct a post construction test on the infiltration basins 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.**

### Maintenance:
An Operations and Maintenance Agreement must be completed for the Woodcrest Pond.

6. **Provide a signed Operations and Maintenance Agreement.**

### Water Quality:
The plans do not show where the new impervious area is.

7. **Show on the plans the new impervious areas.**

### Plans:
The district requires plans to be submitted on a minimum page size of 11” x 17”

8. **Provide plans at a minimum page size of 11” x 17”**

### Escrow:
$2,000 + (0.7 ac x $500/ac) = $2,350

9. **Receipt of escrows.**

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**RECOMMENDATION:** Table with 9 Stipulations

**Stipulations:**

1. Receipt of escrows.
2. Provide soil boring information that includes groundwater elevation to support the infiltration basins 48 hour drawdown.
3. Provide plans at a minimum page size of 11” x 17”
4. Show on the plans the new impervious areas.
5. Provide grading and/or erosion control plans that show stormwater management practices that adjacent water bodies, all wetlands, ponds, infiltration basins and water conveyance systems are protected from erosion and sedimentation during construction.

6. After initial grading completely surround the proposed infiltration basins with erosion control measures to prevent the basin from clogging.

7. Provide stormwater runoff calculations that show the site is meeting the volume management requirement equivalent to infiltrating runoff from the first inch of precipitation.

8. 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.

9. Provide a signed Operations and Maintenance Agreement.