COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: December 9, 2013
AGENDA NUMBER: 20
FILE NUMBER: 13 - 095
ITEM: 147th Avenue NE Aberdeen Street NE reconstruction

RECOMMENDATION: Approve with 2 Stipulations

APPLICANT: City of Ham Lake/RFC Engineering
13635 Johnson St NE
Ham Lake, MN  55304

PURPOSE: 147th Avenue NE Aberdeen Street NE reconstruction

LOCATION: From intersection of 147th Ave. and TH-65 to the intersection of Hastings Street NE and 149th Avenue, Ham Lake
APPLICABILITY:
1. Any work within or adjacent to a Public Ditch within the Watershed District.
2. Any work in or adjacent to wetlands, lakes or water courses.
3. One or more cumulative acres of land disturbance.
4. The lands and water that have been, or may be covered by the regional flood.
5. Activities upstream from land that is dependent upon removal of water from the soil profile for their continued use (Drainage Sensitive Uses)
6. High water table, outwash and organic soils.
7. High infiltration soils.
8. Highly erodible soils

EXHIBITS:
1. Letter from RFC Engineering; dated 11/13/2013; received 11/13/2013
2. Existing and proposed drainage area exhibits; dated 11/13/13; received 11/13/13
3. Erosion control and plan and profile plan sheets; dated 11/13/13; received 11/13/13

HISTORY & CONSIDERATIONS:
We previously approved this application with two stipulations, 1) Escrow, and 2) we asked that they add check dams along the roadside ditch to infiltrate the 1st inch of precipitation and meet the district volume standard. This submittal accounts for those requests.

FINDINGS:
Ditches and Drainage: There is not a public ditch on the property. The project site is tributary to County Ditch 59. The trend in land use for this drainage area is residential. There are no flooding concerns downstream. No alternatives were evaluated to handle additional drainage.

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 886.6 feet at the upstream end of the project and 883.1 at the downstream end of the project. The total floodplain impact is 0 acre-feet. Compensatory storage is not needed.

Groundwater: No groundwater information was provided.

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 pond(s) shown on the drainage plan. Property owners affected by
changes in drainage have not been notified and have not acknowledged the changes proposed.

**Soils & Erosion Control:** Soils affected by the proposal are Lino, Isanti, Rifle, Markey and Zimmerman. 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 not 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. Stormwater leaving the site is discharged into a well defined receiving channel or pipe and routed to a public drainage system. Drainage sensitive uses exist down stream 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 include new impervious drainage areas greater than 1 acre. All discharges into wetlands are not pretreated by a sediment basin/water quality pond. The proposal will 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, 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:** $0

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<th>ISSUES/CONCERNS:</th>
<th>NEEDS:</th>
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<td><strong>Stormwater &amp; Hydraulics:</strong> The applicant is meeting the volume management requirement equivalent to infiltrating runoff from the first inch of precipitation. A post construction test on the infiltration basin will be required to verify the assumed infiltration rates are obtained. A post construction test may consist of probing the soil within the proposed infiltration area to a depth of 12” and measuring the height of the weir.</td>
<td>The applicant must acknowledge that they will conduct a post construction test on the infiltration basin. The Coon Creek Watershed District shall be notified prior to the test to witness the results.</td>
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**Escrows:** $0  
**Receipt of escrows**

**RECOMMENDATION:** Approve with 2 Stipulations  
**Stipulations:**  
1. Receipt of escrows.  
2. Acknowledge that they will conduct a post construction test on the infiltration basin.