COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE:     May 14, 2018
AGENDA NUMBER:   14
FILE NUMBER:     18-068
ITEM:            Hanson Blvd Grade Separation – Watermain Connections

RECOMMENDATION:  Approve with 2 Stipulations

APPLICANT:       City of Coon Rapids
                 Attn: Mark Hansen
                 11155 Robinson Drive
                 Coon Rapids, MN 55433

PURPOSE:         Replacement of watermain with directional bore

LOCATION:        Between 107th Ave NW and Hummingbird St. NW and between Osage St. and 108th Lane NW, Coon Rapids MN
APPLICABILITY:
1. Within 1 mile of an impaired waters.
2. Any work within or adjacent to a Public ditch within the Watershed District.
3. Any work in or adjacent to wetlands, lakes or water courses
4. The lands and waters that have been or may be covered by the regional flood.
5. Excavation or filling or a combination of excavation and filling of sand or other excavation or fill material including the laying, repairing, replacing or enlarging of a culvert or an underground pipe or facility where it crosses a public ditch or waters of the state.

EXHIBITS:
1. Construction Plan set (2 sheets); by City of Coon Rapids, dated 3/15/18, received 5/1/18.
2. Project Narrative; by City of Coon Rapids, undated 4/30/18, received 5/2/18.

PREVIOUS ACTION TAKEN: This is a new application.

FINDINGS:
Pre-application Meeting: The project as submitted has not received a general review during a pre-application meeting.

Ditches: There is a public ditch on the property. The public ditch is County Ditch 52-1 according to the public drainage map. The existing elevations through this property are 851.2 ft MSL at the downstream end and 851.2 ft MSL at the upstream end. The ditch is a 1st order stream. The ditch serves the primary role of storm water conveyance. The ditch serves approximately 0 acres of agricultural land. Land use in the area is toward residential and natural. There are no flooding concerns upstream and/or downstream. The ditch has been inspected. Existing elevations, slopes and condition of
ditch are good. The ditch is not in need of repair. Alternatives to repair and additional drainage have been considered and reviewed.

**Ditch Hydraulics:** A underground utility crossing of the ditch is proposed.

**Erosion and Sediment Control:** Soils affected by the proposal are Marsh, Nymore, Markey, and Millerville.

- Stabilizing vegetation is proposed for disturbed areas within seven (7) days of rough grading.
- Soil stockpiles have been proposed to be fitted with sediment-trapping measures to prevent soil loss.
- Adjacent properties and stormwater ponds are protected from sediment deposition.
- Construction schedules detailing when sediment trapping measures will occur; stabilization of earthen structures and the general timing of construction phases have been provided.
- Stabilization adequate to prevent erosion has been provided at the outlets of all storm sewer pipes.
- All storm sewer inlets are protected from sediment-laden water during construction.
- All work adjacent to water or related resource has taken precautions to contain sediment and stabilize the work area during construction.
- Provisions have been made to minimize transport of sediment (mud) by runoff or vehicle racking onto the paved surface.
- Provisions have been made for cleaning road surfaces where sediment is transported by the end of the day.
- Construction entrance points are clearly located on the erosion and sediment control plan.
- The erosion and sediment control plan does call for the repair and maintenance of all temporary and permanent erosion and sediment control practices.

**Dewatering:** Shallow ground water may exist on site. The project does not require dewatering.

**Floodplain:** There is floodplain on the property for the eastern portion of the project according to the District model and FEMA. The District’s floodplain elevation is at 852.7 feet. The project does not propose to place fill within the floodplain. There are flooding concerns upstream.

**High Water Flooding:** Information has not been provided to substantiate low floor elevations and is not needed, no structures proposed.

**Groundwater:** Geotechnical information has not been provided and is not needed.

The project site is within the 10 Year Well Head Protection Area/Drinking Water Supply Management Area.
The proposal does not contain a land use discouraged or prohibited by the Safe Drinking Water Supply Act (SDSA).

**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:** There are no stormwater management features or treatment practices proposed as part of this project.

Easements: The proposed project does not include ditch maintenance easement. A ditch maintenance easement is not required.

**Stormwater & Hydrology:** No new impervious surfaces are proposed as part of the project. Storm water requirements do not apply. 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. No increases in volume, velocity and peak water flow rates of storm water runoff is expected. No concentrated storm water is proposed as part of this project. No on-site constructed storm water conveyance channels are proposed as part of this project.

**Water Quality:** The proposed project does not cause an exceedance 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 wetlands, 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 within one (1) mile of and drains to an Impaired Water. The Impaired Water is Lower Coon Creek. Lower Coon Creek is impaired for (Aquatic Life (Macro-invertebrates)/Aquatic Recreation (E. coli). The major stressors are Total Phosphorus (TP)/E.coli. There is an EPA approved Total Maximum Daily Load (TMDL) or Waste Load Allocation (WLA) for this water.

There are no new impervious surfaces proposed as part of this project.

**Wetlands:** Wetlands do exist on-site according to the 1987 Federal manual, NWI, PWI and Soil Survey. Wetlands have not been delineated. The wetland is not a DNR protected water. The total proposed wetland impact is 0 square feet. The project is not wetland dependent. The project is exempt. The applicant does not need to contact the DNR area hydrologist and the Corps of Engineers.
**Wetland Replacement Plan:** A wetland replacement plan is not required

**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:** $2,245.00
**Wetland Escrow:** N/A
There are not ditch liens on the property.

**ISSUES/CONCERNS:**

<table>
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<tr>
<th>ISSUE</th>
<th>NEED</th>
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<tbody>
<tr>
<td>Escrows: $2,000 + (0.49 ac * $500/ac = $2,245.00)</td>
<td>1. Receipt of escrows.</td>
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<tr>
<td>Ditch Hydraulics: An underground utility crossing is proposed as part of the project.</td>
<td>2. An as-built will need to be provided that ensures there is a minimum 5-foot separation from the bottom of the existing 52-1 ditch elevation (851.2 ft NAVD 88) to the top of the watermain.</td>
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**RECOMMENDATION:** Approve with 2 Stipulations

**Stipulations:**

1. Receipt of escrows.
2. Provide as-built elevations that show a minimum 5-foot separation from the bottom of the existing 52-1 ditch elevation (851.2 ft NAVD 88) to the top of the watermain.