COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE:       June 27, 2016
AGENDA NUMBER:      7
FILE NUMBER:        16-098
ITEM:              91st Ave Reconstruction

RECOMMENDATION:   Approve with 4 Stipulations

APPLICANT:         City of Blaine
                   Attn: Stefan Higgins
                   10801 Town Square Dr NE
                   Blaine MN 55449

PURPOSE:           Street Reconstruction with Curb and Gutter

LOCATION:          91st Ave between Jefferson and Polk Street in Blaine, Minnesota
APPlicability:
1. Any work within or adjacent to a Public ditch within the Watershed District.
2. One or more cumulative acres of land disturbance
3. The lands and waters that have been, or may be covered by the regional flood.

ExHIBits:
1) Project Narrative by City of Blaine; dated 6/1/16, received 6/9/16.
2) Construction Plan set (21 sheets) by City of Blaine, dated 5/5/16, received 6/8/16.
PREVIOUS ACTION TAKEN: This is a new application.

FINDINGS:
Pre-application Meeting: The project as submitted has received a general review during a pre-application meeting.

Ditches: There is a public ditch on the property. The public ditch is County Ditch 17 according to the public drainage map. County Ditch 17 was established in 1892. The 2012 observed elevations through this property are 891.9 ft MSL at station 155+98 and 892.7 ft MSL at station 183+56 representing a 0.03% slope.

The ditch has been inspected. (103E.075 subd 4). Alternatives to repair and additional drainage have been considered and reviewed. The ditch is not in need of repair. The 16.5 foot grass strip has been inspected. (103E.075 subd 4). The grass strip is not in need of repair or maintenance.

The ditch is a 4th order stream. The ditch serves the primary role of storm water conveyance and trunk drainage system

The ditch serves approximately 0 acres of agricultural land. Land use in the area is single family residential. There are no flooding concerns upstream or downstream.

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

Erosion and Sediment Control: Soils affected by the proposal are Lino, Isanti and Zimmerman.

- Stabilizing vegetation is not 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.
- Stormwater runoff does pass through a sediment basin or other sediment trapping BMP with equal or greater storage capacity.
- 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 provide for the repair and maintenance of all temporary and permanent erosion and sediment control practices.

Dewatering:
It is unknown if shallow ground water exists on site. It is unknown if the project requires dewatering.

Floodplain: There is floodplain on the property according to the District model and FEMA. The project does propose to place fill within the floodplain. The total floodplain impact is negligible. The proposed impact is within the flood fringe. Compensatory storage is not needed. There are no flooding concerns upstream or downstream.

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

Groundwater: Geotechnical information was not provided and is not needed.

The site is not within a Municipal Drinking Water Supply Area (DWSMA).

The project site is not within the Emergency Response Area/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.

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 City of Blaine. 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>Infiltration Trenches</td>
<td>3</td>
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</table>
Inspection and maintenance of stormwater facilities will be the responsibility of the City of Blaine. As a requirement of the City’s MS4 program, the city will inspect and maintain the stormwater facilities.

Easements:
The proposed project does include ditch maintenance easement. A ditch maintenance easement is required. A maintenance access to all storm water management features is provided.

**Stormwater & Hydrology:** Infiltration is allowed within the project area. The 1-inch infiltration is achieved to the maximum extent practicable. The stormwater management system utilizes infiltration basins. 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-developement runoff from the site does not exceed predevelopment rates, or rates which would interfere with sensitive downstream land uses. Properties and waterways downstream from the project are protected from erosion due to increases in the volume, velocity and peak water flow rates of stormwater runoff. Concentrated storm water leaving a site is discharged directly into a well-defined natural or man-made off-site receiving channel or pipe. The project does not propose any on-site constructed storm water conveyance channels.

**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 discharges into wetlands are pretreated by a sediment basin/water quality pond, and are designed correctly. 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 not within one (1) mile and drains to an Impaired Water.

There are no 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:**
A wetland replacement plan has not been submitted.

**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: $3,050.00  
Wetland Escrow: N/A  
There are not ditch liens on the property.

**ISSUES/CONCERNS:**

<table>
<thead>
<tr>
<th>ISSUE</th>
<th>NEED</th>
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<tbody>
<tr>
<td><strong>Escrow:</strong> $2,000 + (2.1 ac * $500/ac) = $3,050.00</td>
<td>1. Receipt of Escrows</td>
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<tr>
<td><strong>Soils &amp; Erosion Control:</strong> District requires all stabilization vegetation be within seven (7) days of rough grading or inactivity.</td>
<td>2. Update construction plans to stabilize vegetation in 7 days of rough grading or inactivity.</td>
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<td>It is unclear if dewatering is needed during the construction of the proposed project.</td>
<td>3. Provide statement whether dewatering will be required for the construction of the proposed project. If yes, provide well-field location, rates, discharge location, schedule and quantities.</td>
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<td><strong>Water Quality:</strong> Sumps are shown on utility plan but no calculations were provided to indicate district removal efficiencies of 80% TSS has been met.</td>
<td>4. Provide calculations (SHASM can be used) to indicate sumps are appropriately sized to meet district removal rates of 80% TSS.</td>
</tr>
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**RECOMMENDATION:** Approve with 4 Stipulations  
**Stipulations:**  
1. Receipt of escrows.  
2. Update construction plans to stabilize vegetation in 7 days of rough grading or inactivity.  
3. Provide statement whether dewatering will be required for the construction of the proposed project. If yes, provide well-field location, rates, discharge location, schedule and quantities.  
4. Provide calculations (SHASM can be used) to indicate sumps are appropriately sized to meet district removal rates of 80% TSS.