COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: March 13, 2017
AGENDA NUMBER: 15
FILE NUMBER: 17-045
ITEM: Shield Pattern Work Addition

RECOMMENDATION: Approve with 3 Stipulations

APPLICANT: Frischmon Family LLP
1740 99th Lane NE
Blaine, MN 55449

PURPOSE: Building Addition

LOCATION: SW of 99th Lane NE and Goodhue, Blaine MN
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. The lands and waters that have been, or may be covered by the regional flood.

EXHIBITS:
1. Geotechnical Report, by AET, Inc, Dated 1/23/2012, Received 2/22/17
2. Construction Plans, by Hakanson Anderson, Dated 2/9/17, Received 2/22/17
3. Stormwater Runoff Calculations (HydroCAD), by Hakanson Anderson, Dated 1/31/2012, Received 2/13/17.

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 41-2 according to the public drainage map. The approved elevations through this property are 895.0 ft MSL at the downstream end and 895.4ft MSL at the upstream end. The ditch has been inspected. The 2015 observed elevations through this property are 895.9 ft MSL at the downstream end and 896.0 ft MSL at the upstream end. Existing elevations of the ditch are represent a 0.9-0.6 ft variation from the approved elevations. 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 Industrial to the north and Parks/Recreation to the south. There are no known flooding concerns upstream or downstream. Existing elevations, slopes and condition of ditch are fair. Alternatives to
repair and additional drainage have been considered and reviewed. The ditch is not in need of repair.

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

**Erosion and Sediment Control:** Soils affected by the proposal are fill and Zimmerman. No Erosion Control plan was submitted with permit.
- Stabilizing vegetation is not proposed for disturbed areas within seven (7) days of rough grading.
- Soil stockpiles have not been proposed to be fitted with sediment-trapping measures to prevent soil loss.
- Adjacent properties and stormwater ponds are not 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 not been provided.
- Stormwater runoff does pass through a sediment basin or other sediment trapping BMP with equal or greater storage capacity.
- Project does not propose any new storm sewer pipe outlets.
- All storm sewer inlets are not protected from sediment-laden water during construction.
- All work adjacent to water or related resource has not taken precautions to contain sediment, and stabilize the work area during construction.
- Provisions have not been made to minimize transport of sediment (mud) by runoff or vehicle racking onto the paved surface.
- Provisions have not been made for cleaning road surfaces where sediment is transported by the end of the day.
- Construction entrance points are not clearly located on the erosion and sediment control plan.
- The erosion and sediment control plan does not provide for the repair and maintenance of all temporary and permanent erosion and sediment control practices.

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

**Floodplain:** There is floodplain on the property according to the District model and FEMA. The project does not propose to place fill within the floodplain. There are no flooding concerns upstream or downstream.

**High Water Flooding:** Information has been provided to substantiate low floor elevations. Low floor elevations do meet the criteria for the City of Blaine; 2 ft above mottled, 2 ft above 100 yr.

**Groundwater:** Geotechnical information collected in January 2012 indicates long term groundwater elevation is present at 9.5 feet below the surface.
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:** Project does not propose any Stormwater Management features and treatment practices are proposed as part of the project. Project will utilize existing on-site practices that are maintained by Shield Pattern Works.

**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 sedimentation basin and an infiltration basin. 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 exceed predevelopment rates. However, the rates will not degrade downstream streams or water bodies. 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. No on-site constructed storm water conveyance channels are proposed as part of the 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 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 not protected from erosion. The proposal will detrimentally affect the existing water quality of the receiving water. The proposal will 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:** A wetland replacement plan has not been submitted and is not needed.

**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:** $2,060.00

**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>Escrows: $2,000 + (0.12 ac * $500/ac) = $2,060.00</td>
<td>1. Receipt of escrows.</td>
</tr>
<tr>
<td>Erosion and Sediment Control: No erosion control plan was provided.</td>
<td>2. An erosion control plan for the proposed project is required that includes items bulleted in the above Erosion and Sediment Control section.</td>
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<tr>
<td>Maintenance: Due to an increase in imperviousness on-site, a maintenance evaluation must be performed on the existing basin to determine if it still meeting District requirements.</td>
<td>3. Applicant must acknowledge that they will perform a maintenance evaluation on the existing basin. If basin has sediment accumulation or is no longer meeting 0.8 in/hr infiltration rate, sediment must be removed and basin bottom must be scarified. It is required that this maintenance evaluation be performed after the construction activities have been completed.</td>
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**RECOMMENDATION:** Approve with 3 Stipulations

**Stipulations:**
1. Receipt of escrows.
2. An erosion control plan for the proposed project is required that includes items bulleted in the above Erosion and Sediment Control section.
3. Applicant must acknowledge that they will perform a maintenance evaluation on the existing basin. If basin has sediment accumulation or is no longer meeting 0.8
in/hr infiltration rate, sediment must be removed and basin bottom must be scarified. It is required that this maintenance evaluation be performed after the construction activities have been completed.