COON CREEK WATERSHED DISTRICT
BOARD OF MANAGERS' MEETING
June 24, 2019

The Board of Managers of the Coon Creek Watershed District held their regular meeting on June 24, 2019 at the Coon Creek Watershed District Office.

1. Call to Order: The meeting was called to order at 5:30 PM
Staff: Matt Danzl, Corinne Elfelt, Tim Kelly, Michelle Ulrich
Others: Mitch Fanning & David Bade – Westwood for Spire Credit Union and Pat McCann – Spire Credit Union

2. Approval of the Agenda: Wilder made a motion to move Items #8 B&T Acres Permit Review, #9 Catchers Creek West Permit Review, #10 Lindsay Property Permit Review, #11 Springbrook Nature Center Pavilion, #12 Spire Credit Union, #16 Clover Leaf Parkway Area Street Reconstruction and #17 Jefferson Street Reconstruction to the Consent Agenda. Seconded by Hoffman. Motion carried with five yeas (Herbst, Hoffman, Kreun, McCullough and Wilder) and no nays

Kreun moved to Approve the Amended Agenda. Seconded by Herbst. Motion carried with five yeas (Herbst, Hoffman, Kreun, McCullough and Wilder) and no nays.

3. Announcements: none

4. Open Mike: No one present to address the Board

CONSENT ITEMS
5. a. Approval of Minutes of June 10, 2019
   b. Approval of June 17, 2019 Board Tour Minutes

8. B & T Acres Permit Review: The purpose of this project is the construction of 1 additional 6000 square foot single-family home on a 15 acre lot located at 2332 153rd Avenue NE in Ham Lake, Minnesota.

The staff report provided to the Board identified the following issues and concerns:

<table>
<thead>
<tr>
<th>ISSUE</th>
<th>NEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Escrows: $2,000</td>
<td>1. Receipt of escrows.</td>
</tr>
<tr>
<td>(0.14 ac * $500)</td>
<td></td>
</tr>
<tr>
<td>$2,070.00</td>
<td></td>
</tr>
</tbody>
</table>

Staff recommendation was to Approve with 1 Stipulation as follows:

1. Receipt of escrows, $2,070.00.
9. **Catchers Creek West Permit Review:** The purpose of this project is the development of 9 single family home lots on 5 acres located at 1049 Andover Blvd NE in Andover, Minnesota.

The staff report provided to the Board identified no issues or concerns.

Staff recommendation was to Approve with 0 Stipulations.

10. **Lindsay Property Permit Review:** The purpose of this project is the construction of a 2,880 square foot accessory building on a 7 acre lot located at 3411 133rd Lane NE in Ham Lake, Minnesota.

The staff report provided to the Board identified the following issues and concerns:

<table>
<thead>
<tr>
<th>ISSUE</th>
<th>NEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Escrows: $2,000 + (0.1 ac * $500/ac) = $2,050</td>
<td>1. Receipt of escrows.</td>
</tr>
</tbody>
</table>

Staff recommendation was to Approve with 1 Stipulation as follows:
1. Receipt of escrows, $2,050.00.

11. **Springbrook Nature Center Pavilion Permit Review:** The purpose of this project is the grading and replacement of existing picnic shelter and bituminous trail paving (0.24 acre project on 121.3 acre lot) located at 100 85th Avenue NW in Fridley, Minnesota.

The staff report provided to the Board identified the following issues and concerns:

<table>
<thead>
<tr>
<th>ISSUE</th>
<th>NEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Escrows: $2,000 + (0.24 ac * $500/ac) = $2,120</td>
<td>1. Receipt of escrows.</td>
</tr>
<tr>
<td>Soils &amp; Erosion Control:</td>
<td>Soil stockpiles need to be stabilized within 7 days of inactivity.</td>
</tr>
<tr>
<td></td>
<td>2. Provide a note to stabilize soil stockpiles within 7 days of inactivity.</td>
</tr>
</tbody>
</table>

Staff recommendation was to Approve with 2 Stipulations as follows:
1. Receipt of escrows, $2,120.00.
2. Provide a note to stabilize soil stockpiles within 7 days of inactivity.

12. **Spire Credit Union Permit Review:** The purpose of this project is the construction of a 5,000 square foot building and parking lot on 2.1-acre lot located at Northtown Mall Site in Blaine, Minnesota.

The staff report provided to the Board identified the following issues and concerns:
<table>
<thead>
<tr>
<th>ISSUE</th>
<th>NEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Escrows: $2,000 + (1.78 ac * $500/ac = $2,890.00</td>
<td>1. Receipt of escrows.</td>
</tr>
<tr>
<td>Maintenance: A maintenance agreement has not been executed. The applicant has not submitted a Maintenance Plan for each Stormwater Treatment Practice.</td>
<td>2. Provide an O&amp;M Agreement that meets District requirements.</td>
</tr>
</tbody>
</table>

Staff recommendation was to Approve with 2 Stipulations as follows:
1. Receipt of escrows, $2,890.00.
2. Provide an O&M Agreement that meets District requirements.

16. Clover Leaf Parkway Area Street Reconstruction Permit Review: The purpose of this project is the reconstruction of the existing Clover Leaf Parkway and 93rd Lane NE corridors on Clover Leaf Parkway from Polk St NE to Hwy 65 and 93rd Lane NE from Hwy 65 to Goodhue St NE in Blaine, Minnesota.

The staff report provided to the Board identified the following issues and concerns:

<table>
<thead>
<tr>
<th>ISSUE</th>
<th>NEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Escrows: $2,000 + (4.5 ac * $500/ac = $4,250</td>
<td>1. Receipt of escrows.</td>
</tr>
<tr>
<td>Water Quality: SHSAM output report is not provided.</td>
<td>2. Provide SHSAM output report.</td>
</tr>
</tbody>
</table>

Staff recommendation was to Approve with 2 Stipulations as follows:
1. Receipt of escrows, $4,250.00.
2. Provide SHSAM output report.

17. Jefferson Street Reconstruction Permit Review: The purpose of this project is the reconstruction of Jefferson Street including replacement of curb and gutter, new storm sewer, water main, traffic control signage, culvert replacement and asphalt surface replacement of Jefferson Street from 119th Avenue to 104th Court and 104th Court Cul-de-sac in Blaine, Minnesota.

The staff report provided to the Board identified the following issues and concerns:

<table>
<thead>
<tr>
<th>ISSUE</th>
<th>NEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soils &amp; Erosion Control: County Ditch (CD) 39 is not protected from sediment deposition. Construction activities will take place within County Ditch 41.</td>
<td>1. Update Erosion Control Plan with the following: a. Show double row perimeter control adjacent to CD 39 on the upstream and downstream banks. b. Provide for provisions to remove</td>
</tr>
</tbody>
</table>
Stream diversions are anticipated as part of this project. Pumps or adequate diversions will be required to ensure unimpeded flow of County Ditch 39 and 41 during the work.

**Water Quality:** Discharge into CD 41 is pretreated by a 3-foot-deep sediment sump manhole. This sump manhole is not designed correctly for water quality treatment.

3. Provide calculations (SHSAM can be used) to indicate sumps are appropriately sized to meet District removal rates of 80% TSS for OK110 particle size. A minimum of 4-foot depth is required to prevent resuspension.

Staff recommendation was to Approve with 3 Stipulations as follows:

1. Update Erosion Control Plan with the following:
   a. Show double row perimeter control adjacent to CD 39 on the upstream and downstream banks.
   b. Provide for provisions to remove any accumulated sediment in CD 41 prior to removing floatation silt curtain.
2. Provide Temporary stream diversion plan.
3. Provide calculations (SHSAM can be used) to indicate sumps are appropriately sized to meet District removal rates of 80% TSS for OK110 particle size. A minimum of 4-foot depth is required to prevent resuspension.

Wilder moved to Approve the Amended Consent Items. Seconded by Herbst. Motion carried with five yeas (Herbst, Hoffman, Kreun, McCullough and Wilder) and no nays.

**POLICY ITEMS**

6. **Public Meeting on Stormwater Pollution Prevention Plan**
A presentation was available highlighting the following items:

1. Background – MS4 Designation
2. Resource Condition
3. Program Activities (Minimum Control Measures)
   a. Public Education and Outreach
   b. Public Participation/Involvement
   c. Illicit Discharge Detection and Elimination
   d. Construction Site Runoff Control
   e. Post-Construction Runoff Control
   f. Pollution Prevention/Good Housekeeping
Motion to open the Public Hearing at 5:34 p.m. made by Kreun, seconded by McCullough. Motion carried with five yeas (Herbst, Hoffman, Kreun, McCullough and Wilder) and no nays.

Wilder asked for comments three times.

Hearing none, motion to close the Public Hearing was made at 5:34 p.m. by Kreun and seconded by Hoffman. Motion carried with five yeas (Herbst, Hoffman, Kreun, McCullough and Wilder) and no nays.

7. Budget – Manager Per Diem: Kelly reviewed the reason for this discussion. At the May 28, 2018 meeting, the Board asked that manager compensation be considered as a separate item due to the legislative change to maximum compensation.

The Board discussed reasons that they might consider raising their per diem. The Board agreed they would rather not increase their per diem and that no action on this matter was needed. Kelly informed the Board they could let him know individually if they would like to not receive the per diem.

PERMIT ITEMS

13. AutoZone Store #3949 Permit Review: The purpose of this project is the construction of a new 7,150 square foot building and parking lot on a 1.13 acre lot located at 15633 Highway 65 NE in Ham Lake, Minnesota.

The staff report provided to the Board identified the following issues and concerns:

<table>
<thead>
<tr>
<th>ISSUE</th>
<th>NEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Escrows: $2,000 + (0.9 ac * $500/ac = $2,450</td>
<td>1. Receipt of escrows.</td>
</tr>
<tr>
<td>Stormwater &amp; Hydraulics:</td>
<td>2. Note was provided on the construction plans that a post construction test on the infiltration basin will be conducted. Add detail to the note to that infiltration test will be conducted 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.</td>
</tr>
<tr>
<td>Drainage area maps are not provided with the submittal.</td>
<td>3. Provide maps showing the delineated existing and proposed drainage areas as</td>
</tr>
<tr>
<td>Atlas 14 precipitation was used for the HydroCAD model. However, the</td>
<td></td>
</tr>
</tbody>
</table>
precipitation was not MSE Type III distribution. In the HydroCAD model, outlet to the north infiltration swale has an elevation of 901.7, but this is 901.58 in the plan. Update model and volume calculation to match the plan.

Existing and proposed conditions model both use HSG B soil for pervious areas.

4. Update HydroCAD model to use MSE 3 rainfall distribution. Update north infiltration swale outlet elevation in the model to match the plan and provide updated volume calculation.

5. Adjust the soil type down one HSG (B to C) for proposed conditions to reflect compaction by construction equipment or add notes to loosen/scarify the upper 1 foot of soil after grading and prior to seeding.

Soils & Erosion Control: Infiltration basins are not protected from erosion and sedimentation during construction. After initial grading the District requires that infiltration basins be completely surround by erosion control measures to prevent the basin from clogging.

Sediment tracked onto paved surfaces shall be removed before the end of day.

Stockpiles were not proposed to be surrounded by erosion control measures.

Seeding mixes and seeding rates were not specified in the plan.

The plan included details of riprap. However, sizing detail was not included.

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

7. Update erosion control notes to remove tracked sediment before the end of day.

8. Update erosion control notes to provide adequate erosion control measures around stockpiles.

9. Provide details of seeding mixes and seeding rate.


Maintenance: It is unknown who will be responsible for the inspection and maintenance of stormwater facilities. A maintenance agreement has not been

11. Provide an O&M Agreement that meets District requirements.
executed. The applicant has not submitted a Maintenance Plan for each Stormwater Treatment Practice.

Staff recommendation was to Table with 11 Stipulations as follows:

1. Receipt of escrows, $2,450.00.
2. Note was provided on the construction plans that a post construction test on the infiltration basin will be conducted. Add detail to the note to that infiltration test will be conducted 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.
3. Provide maps showing the delineated existing and proposed drainage areas as reflected in the models.
4. Update HydroCAD model to use MSE 3 rainfall distribution. Update north infiltration swale outlet elevation in the model to match the plan and provide updated volume calculation.
5. Adjust the soil type down one HSG (B to C) for proposed conditions to reflect compaction by construction equipment or add notes to loosen/scarify the upper 1 foot of soil after grading and prior to seeding.
6. After initial grading completely surround the proposed infiltration basins with erosion control measures to prevent the basin from clogging.
7. Update erosion control notes to remove tracked sediment before the end of day.
8. Update erosion control notes to provide adequate erosion control measures around stockpiles.
9. Provide details of seeding mixes and seeding rate.
10. Provide details of riprap sizing.
11. Provide an O&M Agreement that meets District requirements.

Motion to Table with 11 Stipulations was moved by Hoffman and seconded by Herbst. The motion carried with five yeas (Herbst, Hoffman, Kreun, McCullough and Wilder) and no nays.

14. Roosevelt Middle School Turn Lane Construction Permit Review: The purpose of this project is the construction of a new bus lane and reconfiguration of existing bus corral consisting of 34,848 square fee of a 37.72 acre lot located at 650 125th Ave NE in Blaine, Minnesota.

The staff report provided to the Board identified the following issues and concerns:

<table>
<thead>
<tr>
<th>ISSUE</th>
<th>NEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Escrows: $2,000 + (0.80 ac * $500/ac = $2,400.00</td>
<td>1. Receipt of escrows.</td>
</tr>
<tr>
<td>Groundwater: New impervious surfaces</td>
<td>2. Demonstrate that at a minimum,</td>
</tr>
</tbody>
</table>
are proposed.

<table>
<thead>
<tr>
<th>Local Planning &amp; Zoning: Anoka County Highway Department requires plan revisions.</th>
<th>recharge from impervious surfaces will be infiltrated.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3. Provide updated plans addressing ACHD issues.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Soils &amp; Erosion Control: District requires all stabilization vegetation be within seven (7) days of rough grading or inactivity.</th>
</tr>
</thead>
<tbody>
<tr>
<td>It is unclear whether soil stockpiles are proposed.</td>
</tr>
<tr>
<td>Infiltration basins are not protected from erosion and sedimentation during construction. After initial grading the District requires that infiltration basins be completely surround by erosion control measures to prevent the basin from clogging.</td>
</tr>
<tr>
<td>Construction schedules detailing when sediment trapping measures will occur; stabilization of earthen structures and the general timing of construction phases have not been provided.</td>
</tr>
<tr>
<td>Provisions have not been made to minimize transport of sediment (mud) by runoff or vehicle tracking onto the paved surface.</td>
</tr>
<tr>
<td>Provisions have not been made for cleaning road surfaces where sediment is transported by the end of the day.</td>
</tr>
</tbody>
</table>

Staff recommendation was to Table with 4 Stipulations as follows:

1. Receipt of escrows, $2,400.00.
2. Demonstrate that at a minimum, recharge from impervious surfaces will be infiltrated.
3. Provide updated plans addressing ACHD issues.
4. Update construction plans to include:
   a. Stabilize vegetation within 7 days of rough grading or inactivity.
   b. Denote whether soil stockpiles are proposed. If yes, soil stockpiles need to be fitted with sediment-trapping measures to prevent soil-loss and need a note to be stabilized within 7 days of inactivity.
   c. After initial grading completely surround the proposed infiltration basins/storm sewer inlets with erosion control measures to prevent the basin from clogging.
   d. Provide construction schedules detailing when sediment trapping measures will occur and general timing of construction phases.
   e. Provide provisions to minimize transport of sediment by runoff or vehicle tracking.
   f. Provide provisions for cleaning road surfaces.
b. Denote whether soil stockpiles are proposed. If yes, soil stockpiles need to be fitted with sediment-trapping measures to prevent soil-loss and need a note to be stabilized within 7 days of inactivity.

c. After initial grading completely surround the proposed infiltration basins and storm sewer inlets with erosion control measures to prevent the basin from clogging.

d. Provide construction schedules detailing when sediment trapping measures will occur and general timing of construction phases.

e. Provide provisions to minimize transport of sediment by runoff or vehicle tracking.

f. Provide provisions for cleaning road surfaces.

Motion to Table with 4 Stipulations was moved by Wilder and seconded by Hoffman. The motion carried with five yeas (Herbst, Hoffman, Kreun, McCullough and Wilder) and no nays.

15. Catchers Creek of Ham Lake Permit Review: The purpose of this project is the development of 4 single family lots on 5 acres located at 40 Andover Blvd (east of University Ave) in Ham Lake, Minnesota.

The staff report provided to the Board identified the following issues and concerns:

<table>
<thead>
<tr>
<th>ISSUE</th>
<th>NEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Escrows: $2,000 + (1.8 ac * $500/ac) = $2,900.00</td>
<td>1. Receipt of escrows.</td>
</tr>
<tr>
<td>Stormwater &amp; Hydraulics: Basin E’s HWL does not appear to be contained within property limits. Invert of Basin E’s outlet is proposed at the bottom the basin. Stormwater Narrative says Basin E is a “low area that infiltrates”</td>
<td>2. Provide written permission from adjacent property owner at 140 Andover Blvd that HWL of Basin E is acceptable on within property limits. 3. Clarify how Basin E will provide infiltration as indicated in the Stormwater Narrative with invert at same elevation of basin bottom.</td>
</tr>
</tbody>
</table>

Staff recommendation was to Approve with 3 Stipulations as follows:

1. Receipt of escrows, $2,900.00.
2. Provide written permission from adjacent property owner at 140 Andover Blvd that HWL of Basin E is acceptable on within property limits.
3. Clarify how basin will provide infiltration as indicated in the Stormwater Narrative with invert at same elevation of basin bottom.
Motion to Approve with 3 Stipulations was moved by Wilder and seconded by Herbst. The motion carried with five yeas (Herbst, Hoffman, Kreun, McCullough and Wilder) and no nays.

16. Clover Leaf Parkway Area Street Reconstruction Permit Review moved to Consent Agenda by Board action.

17. Jefferson Street Reconstruction Permit Review moved to Consent Agenda by Board action.

18. Blaine High School Tennis Courts and Parking Permit Review: The purpose of this project is the reconstruction of tennis courts and construction of a new parking area, disturbing 4.78 acres and adding 3.883 acres of impervious area located at 12555 University Ave NE in Blaine, Minnesota.

The staff report provided to the Board identified the following issues and concerns:

<table>
<thead>
<tr>
<th>ISSUE</th>
<th>NEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Escrows: $2,000 + (4.78 ac * $500/ac = $4,390)</td>
<td>1. Receipt of escrows.</td>
</tr>
<tr>
<td>Floodplain: Campus trail is located within the floodplain. It is unknown if there are floodplain impacts.</td>
<td>2. Provide grading details for campus trail. If grading or fill is proposed for campus trail provide compensatory storage and cut and fill volumes.</td>
</tr>
<tr>
<td>Stormwater &amp; Hydraulics: Bottom elevation on east portion of Infiltration 3A does not match model.</td>
<td>3. Correct plans for infiltration 3A to bottom elevation 899.</td>
</tr>
<tr>
<td></td>
<td>4. Provide additional volume where required. If applicants cannot meet the volume management requirement due to site constraints in its entirety, they must meet it to the greatest extent practical and explain why it cannot be met.</td>
</tr>
<tr>
<td></td>
<td>5. Provide a rate table that includes all discharge points from the site. Ensure rate control is met at all discharge points.</td>
</tr>
<tr>
<td>Water Quality: Pretreatment is not provided for stormwater discharging into infiltration basin 3A.</td>
<td>6. Provide pretreatment of stormwater prior to discharging</td>
</tr>
</tbody>
</table>
Soils & Erosion Control: Outfall stabilization mat detail shows extend minimum 4 feet from curb. No perimeter control provided for trail construction.

7. Change detail 9 on C2.2 to specify stabilization mat length per plan.
8. Update the Erosion Control Plan to include perimeter control on the down-gradient side of the proposed campus trail.

Maintenance: A maintenance agreement has not been executed. The applicant has agreement with watershed to provide O&M agreement at completion of entire project. not submitted a Maintenance Plan for each Stormwater Treatment Practice.

9. Provide an O&M Agreement that meets District requirements at completion of final phase.

Staff recommendation was to Table with 9 Stipulations as follows:

1. Receipt of escrows, $4,390.00.
2. Provide grading details for campus trail. If grading or fill is proposed for campus trail provide compensatory storage and cut and fill volumes.
3. Correct plans for infiltration 3A to bottom elevation 899.
4. If applicants cannot meet the volume management requirement due to site constraints in its entirety, they must meet it to the greatest extent practical and explain why it cannot be met.
5. Provide a rate table that includes all discharge points from the site. Ensure rate control is met at all discharge points.
6. Provide pretreatment of stormwater prior to discharging into infiltration basin 3A.
7. Change detail 9 on C2.2 to specify stabilization mat length per plan.
8. Update the Erosion Control Plan to include perimeter control on the down-gradient side of the proposed campus trail.
9. Provide an O&M Agreement that meets District requirements at completion of final phase.

Motion to Table with 9 Stipulations was moved by Hoffman and seconded by Herbst. The motion carried with five yeas (Herbst, Hoffman, Kreun, McCullough and Wilder) and no nays.

19. North Central Office Plaza Permit Review: The purpose of this project is the construction of a 45,090 square foot building and parking on a 1.85-acre lot located on Ulysses Street north of 117th Avenue and west of 118th Avenue in Blaine, Minnesota.
The staff report provided to the Board identified the following issues and concerns:

<table>
<thead>
<tr>
<th>ISSUE</th>
<th>NEED</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Escrows:</strong> $2,000 + (1.25 ac * $500/ac = $2,625.00</td>
<td>1. Receipt of escrows.</td>
</tr>
<tr>
<td><strong>Stormwater &amp; Hydraulics:</strong> It is our belief that the current design will bypass too much flow to the stormwater pond, underutilizing the filter area. Suggest hard capping existing catch basins and using Anoka Conservation District Rain Guardians (or similar) as pretreatment device.</td>
<td>2. Provide alternate plan to route water to proposed filtration area with pretreated water. Suggest using Anoka Conservation District Rain Guardian or similar.</td>
</tr>
<tr>
<td>Calculations provided simply state how much storage the basin is providing versus how much volume is produced on impervious surfaces during a 1.1-inch storm. Several impervious areas will currently bypass the filter including the roof, which goes into the drain tile system and the northeastern corner of the parking area, which gets into the storm system. The watershed District requires an accurate accounting of the amount of water over impervious surface is getting treated and will require more detail in the calculation so we can see more clearly what is being treated and what is bypassing.</td>
<td>3. Provide more detailed calculations that illustrate 1.1-inch infiltration volume requirement is meet below the outlet. Suggest using HydroCAD</td>
</tr>
<tr>
<td>The elevations for the proposed filtration basin, drain tiles, and drain tile connections are not shown or not clear on the plans and details. Detail 4 and 8 need to have elevations shown for us to review that things will drain.</td>
<td>4. Provide additional details for filtration basin construction including elevations and drain tile connection into storm structures.</td>
</tr>
<tr>
<td><strong>Soils &amp; Erosion Control:</strong> Filtration basins are not protected from erosion and sedimentation during construction. After initial grading the District requires that infiltration basins be completely surround by erosion control measures to prevent the basin from clogging.</td>
<td>5. After initial grading completely surround the proposed filtration basins with erosion control measures to prevent the basin from clogging.</td>
</tr>
<tr>
<td></td>
<td>6. Provide statement whether</td>
</tr>
</tbody>
</table>
It is unclear if dewatering is needed during the construction of the proposed project.

The current proposed detail (detail 4) shows the filtration area cross section that includes 4” of 80/20% sand to compost mix, 14” of iron enhanced sand, and drain tile with sock embedded in the sand. It is our recommendation:
- That a sand compost mix is not used on top of iron sand. If it is used, 90/10 would be the very upper end to prevent clogging.
- No geotextile fabric between media
- That the drain tile is embedded in a section of filter rock with out the sock

**Water Quality:** Pretreatment proposed will bypass too much of the water to the pond. Suggest removing the catch basins in line with curb openings and installing Anoka Conservation District Rain Guardian or similar.

<table>
<thead>
<tr>
<th>8. Provide revised pretreatment system that will not bypass flow to the pond. Suggest removing the catch basins in line with curb openings and installing Anoka Conservation District Rain Guardian or similar.</th>
</tr>
</thead>
</table>

**Maintenance:** It is unknown who will be responsible for the inspection and maintenance of stormwater facilities. A maintenance agreement has not been executed. The applicant has not submitted a Maintenance Plan for each Stormwater Treatment Practice.

<table>
<thead>
<tr>
<th>9. Provide an O&amp;M Agreement that meets District requirements.</th>
</tr>
</thead>
</table>

Staff recommendation was to Table with 9 Stipulations as follows:
1. Receipt of escrows, $2,625.00.
2. Provide alternate plan to route water to proposed filtration area with pretreated water. Suggest using Anoka Conservation District Rain Guardian or similar.
3. Provide more detailed calculations that illustrate 1-inch infiltration volume requirement is meet below the outlet. Suggest using HydroCAD
4. Provide additional details for filtration basin construction including elevations and drain tile connection into storm structures.
5. After initial grading completely surround the proposed filtration basins with erosion control measures to prevent the basin from clogging.
6. 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.
7. Provide revised details for the filter area cross section.
8. Provide revised pretreatment system that will not bypass flow to the pond. Suggest removing the catch basins in line with curb openings and installing Anoka Conservation District Rain Guardian or similar.
9. Provide an O&M Agreement that meets District requirements.

Motion to Table with 9 Stipulations was moved by Hoffman and seconded by Wilder. The motion carried with five yeas (Herbst, Hoffman, Kreun, McCullough and Wilder) and no nays.

DISCUSSION ITEMS

20. Building Update: Kelly informed the Board that installation of the folding wall in the conference room will likely be delayed to August due to the unavailability of engineer. Kelly noted it will not interrupt the District’s use of the room.

Kelly notified the Board of the required construction of an ADA compliant front desk, as outlined by the City of Ham Lake during their plan review. Staff recommendation was to approve Furnishings Change Order #1 for the construction and installation of the ADA compliant front desk with a permit review counter totaling $6,449.30.

Motion to Approve Furnishings Change Order # 1 was moved by Wilder and seconded by McCullough. The motion carried with five years (Herbst, Hoffman, Kreun, McCullough and Wilder) and no nays.

21. District Tour Wrap Up: Kelly noted the tour included fewer sites but more time at each site, off the bus. Kelly asked the Board for comments. Kreun offered up that people were impressed with the Sand Creek Project and the District Office. Wilder stated the participants were very engaged.

INFORMATIONAL ITEMS

ADJOURN

The meeting adjourned at 5:57 PM on a motion by Wilder, seconded by Hoffman. Motion carried with five yeas (Herbst, Hoffman, Kreun, McCullough and Wilder) and no nays.

_____________________________
Anthony Wilder, President