



**AGENDA OF THE REGULAR MEETING OF  
THE PARKS AND NATURAL RESOURCES COMMITTEE**

**CITY OF BIRCHWOOD VILLAGE  
WASHINGTON COUNTY, MINNESOTA  
AUGUST 19, 2025  
6:30 P.M.**

**Committee Members**

Zach Michalk, Chair  
Alan Mitchell, Secretary  
Amy Hulett, Member  
Bridget Sperl, Council Liaison  
Kathy Weier, Council Liaison  
Margaret Ford, Member  
Mary Sue Simmons, Member

**CALL TO ORDER**

**APPROVE AGENDA**

**OPEN PUBLIC FORUM**

**APPROVE MINUTES FROM PREVIOUS MEETING**

A. July 15, 2025 Meeting Minutes\* (pages 2-5)

**COMMITTEE BUSINESS - MEETING AGENDA**

A. New Agenda Items

A. Updates on Tighe-Schmitz Park Projects from Lori Tella and Marcus Johnson\* (pages 6-29)

B. Agenda Items Carried Over from Previous Month(s)

A. Discuss Budget and Project Priorities for 2026

A. Elm Beach Restoration

B. Grant-Funded Projects by the Lake-Links Task Force

B. Placement of Little Library at Tighe-Schmitz Park\* (page 30)

C. Confirm Next Month's Meeting and Identify Agenda Topics

**ATTACHMENTS**

**ADJOURN**

\* denotes an attachment in the agenda packet

**PARKS AND NATURAL RESOURCES COMMITTEE**  
**MEETING July 15, 2025**  
**MINUTES**

The July 15, 2025, meeting of the Parks and Natural Resources Committee was called to order in city hall at 6:30 p.m.

**Attendees:** Committee Members Zachary Michalk, Mary Sue Simmons, Amy Hulett, Margaret Ford, and Alan Mitchell. Council Member Kathy Weier and Council Member Bridget Sperl.

**Others:** Mayor Jennifer Arsenault and Barton Winter.

**Agenda.** The draft agenda was approved unanimously with the addition of the following three items: Donation of a free library by Debbie Harrod, discussion of the Curt Feistner Memorial Preserve, and a Tighe-Schmitz project update.

**Public Forum.** Barton Winter explained to the Committee the work that was being done at the hockey rink. He discussed the manner in which a part of the rink will be painted and gave a cost estimate of approximately \$400 for the paint. Winter went on to describe the removal of several deteriorating posts. He said the old rotted posts had been removed relatively easily and that he didn't expect any problems installing the new posts. He thought post replacement could be done within about thirty days. Weier asked if there were any temperature restrictions regarding putting down a sealant after painting and Winter said there shouldn't be any limitations if the work was done by September. Weier reminded that work should not be done until after the Music in the Park concerts in the hockey rink were completed in late August.

**Minutes.** The draft June Minutes were approved unanimously with one minor change – the soil sample described in the Tighe-Schmitz Park Update matter was taken at 608 Wildwood Ave. in Birchwood and not at Tighe-Schmitz Park as was initially stated.

**Curt Feistner Memorial Preserve.** Mayor Arsenault reported that she had been investigating various options with regard to the Curt Feistner Memorial Preserve. She presented a memo to the Committee in which she described a three- phase process. Step 1 – construction of an observation deck and a bench and placard at the beach site. Step 2 – seek assistance from the Rice Creek Watershed District in cleaning up the drainage area and the beach. Step 3 -explore the possibility of providing access the lakeshore at the beach. A copy of the Mayor's memo is

attached to these Minutes. Mayor Arsenault also stated that she has been exploring the possibility of the White Bear VFW and/or the American Legion Post sponsoring such improvement of the Preserve. She also informed the Committee that she was willing to take the lead in pursuing these efforts. **Simmons moved, seconded by Ford, that the Committee approve and support the Mayor's request to pursue various options for improving the Curt Feistner Memorial Preserve. The motion passed unanimously.**

Hullet added that Bruce Feistner, brother to Curt Feistner, was coming to town this week and intended to inspect the Curt Feistner Memorial Preserve beach site and the plaque on Wildwood Park and to pass along any suggestions or preferences he might have for the Memorial Preserve.

**Tighe-Schmitz Park Update.** The Committee discussed an email from Lori Tella of the Washington Conservation District dated July 14, 2025 regarding the timeline for securing the grant from the Rice Creek Watershed District. A copy of the email is attached to the Minutes. The Committee recognized that Tella and city engineer Marcus Johnson should work together to complete the project plans and finalize the grant application and obtain approval from the City Council as soon as possible. The Committee recognized that the City Council might have to hold a special council meeting if necessary to meet upcoming deadlines. Council member Sperl advised that once work on the Park project can proceed, the City needs to take into account the possibility that road work and work on the Lake Links Trail near Tighe-Schmitz Park might be scheduled for the same time and adjustments might be required. Simmons volunteered to advise Tella of the Committee's desire to proceed expeditiously in finalizing the grant.

**Little Library.** The Committee discussed a proposal from resident Debbie Harrod to donate a Little Library to the City. Harrod hoped that the library would be installed at Tighe-Schmitz Park or Kay Beach. Harrod said the Harrods would install the library and keep it stocked. The Committee discussed that the proposed donation would have to be accepted by the City Council. **Simmons moved, seconded by Ford, that the Committee recommend that the City accept the donation of the Little Library from the Harrods and that it be installed either on Kay Beach or in Tighe-Schmitz Park near Kay Beach. The motion carried unanimously.**

**Committee Budget.** The Committee discussed the development of a proposed budget for work the Committee envisioned in calendar year 2026. Michalk

presented a spreadsheet showing possible projects that might be undertaken going forward, which he had updated from the list he provided at the Committee's June meeting. A copy of the spreadsheet is attached to these Minutes. The Committee noted that some projects on the list were actually underway in 2025, like painting the hockey rink and installing protective netting on one end, and some potential projects were still under consideration, like lighting on the tennis courts, and for many projects there were no reliable cost estimates.

The Committee recognized that while identifying possible future projects was important, it was also necessary to take into account the fact that maintenance of both existing facilities and any new projects would be required in the future. The Committee was of the view that it was likely that the City would have to rely on outside professional help to perform some maintenance activities, that city staff and volunteers would not be adequate for some projects and facilities. The Committee also concluded that it would be helpful to prioritize any list of projects that was developed.

The Committee reviewed the Resolution adopted by the Council in April, 2025 (Resolution 2025-38), directing the Committee to prepare a proposed budget and action plan each year and to submit periodic progress reports. The Committee recognized that while it was crucial to advise the Council of proposed projects, including cost estimates, that might require financing through the annual levy, many park projects could be funded by the Special Revenue Fund, or to a large extent perhaps through grants, such that identifying possible projects and prioritizing them was more significant and urgent than developing rough cost estimates. The Committee confirmed from the June 30, 2025, Treasurer's Report that there was over \$31,000 in the special revenue fund. Mitchell advised the Committee that he had spoken to officers in the Birchwood Dock Association and asked them what priorities they might have for park projects. The result was that erosion at Elm Beach was the top priority, followed by access concerns at Ash Beach.

After more discussion of possible projects and how to obtain cost estimates, the Committee concluded that the Committee would prepare a memo providing the best information available on possible projects that Committee might like to pursue in 2026. The memo could also serve as a quarterly report. The Committee intends to submit the report in time for the August Council meeting.

**Facilities Inspection.** It was raining at 6:30 so the Committee canceled a planned inspection of certain park facilities. The Committee decided to hold an inspection on Wednesday July 23 at 6:30. Member Ford said she couldn't attend the inspection at that time but would conduct her own inspection of the tennis courts in Bloomquist Park.

**Next Meeting.** August 19, 2025

**Adjourn.** 7:40

Respectfully submitted,

Alan Mitchell  
Secretary



# Legend

FOUND MONUMENT 1/2" IP MARKED RLS xxxxxx	●	BOLLARD	⊙
SET 1/2" IRON PIPE MARKED RLS NO. xxxxxx	○	FLAG POLE	🚩
CABLE TV PEDESTAL	TV	MAILBOX	MB
AIR CONDITIONER	AC	TRAFFIC SIGN	T
ELECTRIC MANHOLE	E	UNKNOWN MANHOLE	U
ELECTRIC METER	EM	SOIL BORING	🔍
ELECTRIC PEDESTAL	EP	SPOT ELEVATION	X 950.0
ELECTRIC TRANSFORMER	ET	TRAFFIC SIGNAL	🚦
LIGHT POLE	☆	CONIFEROUS TREE, DECIDUOUS TREE	🌲 🌳
GUY WIRE	↖	FLARED END SECTION	▽
POWER POLE	⊖	STORM MANHOLE	⊙
GAS MANHOLE	G	FIRE DEPT. CONNECTION	🔥
GAS METER	GM	HYDRANT	🚒
TELEPHONE MANHOLE	T	CURB STOP	⊙
TELEPHONE PEDESTAL	TP	WATER WELL	W
SANITARY CLEANOUT	CO	WATER MANHOLE	WM
SANITARY MANHOLE	C	WATER METER	WM
CATCH BASIN	⊙ or 📦	POST INDICATOR VALVE	⊙
STORM DRAIN	⊕ or 📦	WATER VALVE	⊕

	Existing	Proposed
SANITARY SEWER	---	--- SAW --->
STORM SEWER	---	--- STM --->
DRAINTILE	---	---
WATERMAIN	---	---
WETLAND	---	---
WOODLAND EDGE	~	~
RETAINING WALL	~	~
FENCE	✖	✖
PROPERTY LINE	---	---
CONSTRUCTION LIMITS	---	---
CURB [TYPICAL]	---	---
CONTOURS	---	---
CULVERT	---	---
EROSION CONTROL LOG	---	---
SILT FENCE	---	---
BUILDING LINE	---	---

# Tighe-Schmitz Park Stormwater Management Project

## BIRCHWOOD VILLAGE, WASHINGTON COUNTY, MN



CONTEXT MAP



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**CLIENT**  
**City of Birchwood Village**  
 207 Birchwood Ave.  
 Saint Paul, MN 55110  
 651-426-3403

**PROJECT MANAGER**  
**City of Birchwood Village**  
 Marcus Johnson, PE  
 Project Engineer| Associate  
 Bolton & Menk, Inc.

**DESIGN**  
 Washington Conservation District  
 Lori Tella, PLA  
 455 Hayward Ave. N.  
 Oakdale, MN 55128  
 651-315-8964

THE 2020 EDITION OF THE MNDOT "STANDARDS AND SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN EXCEPT AS MODIFIED BY THE SPECIFICATIONS FOR THIS PROJECT.

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.



IT IS THE LAW THAT ANYONE EXCAVATING AT ANY SITE MUST NOTIFY GOPHER STATE ONE CALL (GSOC) SO THAT UNDERGROUND ELECTRIC, NATURAL GAS, TELEPHONE OR OTHER UTILITY LINES CAN BE MARKED ON OR NEAR YOUR PROPERTY BEFORE ANY DIGGING BEGINS. A 48-HOUR NOTICE, NOT INCLUDING WEEKENDS, IS REQUIRED. CALLS CAN BE MADE TO GSOC AT 1-800-252-1168 OR (651)454-0002, MONDAY THROUGH FRIDAY (EXCEPT HOLIDAYS) FROM 7 A.M. TO 5 P.M.

plan created by:

**Washington Conservation District**  
 455 Hayward Ave N  
 Oakdale, MN 55128  
 www.mnwcd.org (651) 330-8220

Project Address  
 410 Lake Avenue,  
 Birchwood, MN 55110

Project Manager <b>Lori Tella</b>	Drawn
Washington Conservation District	Reviewed <b>MJ</b>
	Revision

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

*Lori Tella*  
 Lori Tella  
 58219 8.04.25  
 Reg. No. Date

Project Title  
**Tighe-Schmitz Park Stormwater Management Project**

Sheet Title  
**Cover Sheet**

CAD File Name: Plan-Tighe-Schmitz\_309\_8.04.25.rvt  
 PLAN CREATED FOR:

REVISION DATE:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Date: 7/28/25 Original Sheet Size: 11x17

**COVER**

BASE BID		AREA A	AREA B	AREA C	AREA D	ALL
MOBILIZATION	LS	1	1	1	1	4
CLEARING AND GRUBBING	SF	450	1500	5,000		6950
EXCAVATION, DISPOSAL AND GRADING BASIN	CY	10	30	35		75
SUBGRADE PREPARATION	SF	155	450	600		1205
STANDARD CONCRETE WORK (CURB CUT, NEW CURB)	LS		1			1
ENGINEERED MEDIA (70% CLEAN WASHED SAND/ 20% TOPSOIL/10% PEAT)	CY	3	17	20		40
COIR LOG (12" D x 10' L) ROPE AND STAKES	LF	20				20
EC BLANKET (SINGLE, DOUBLE, OR COIR)	SY	50				50
LANDSCAPE ROCK-RIVER ROCK 3"-6"	CY	1	1	1		3
RAIN GUARDIAN PRE-TREATMENT CHAMBER (1' PONDING DEPTH), #5 AGGREGATE UNDER TURRET, LANDSCAPE FABRIC, #3 WASHED CRUSHED STONE AT OUTLET	LS		1			1
UNDERDRAIN INCLUDING ALL CONNECTIONS AND FITTINGS [PERFORATED PIPE, SOLID FOR CLEAN OUTS AND CONNECTION TO CATCHBASIN	LS		1	1		2
#57 WASHED CRUSHED STONE (3/4") TRENCH	CY		0.5	2.5		3
2" CHOKING COURSE (3/8" PEA GRAVEL) TRENCH	CY		0.4	1.5		1.9
UNDERDRAIN KNIFE GATE VALVE	EACH		1	1		2
NEW PIPE BENEATH TRAIL (6" HDPE, 30 LF)	LS			1		1
STORMSACK FILTER	LS				1	1
DOUBLE SHREDDED HARDWOOD BARK MULCH (2" DEPTH)	CY		10	10		20
LANDSCAPE EDGING	LF		150			150
SIGNAGE	EACH	1	1	1		3
TREES #10 CONTAINER	EACH	1	-			#VALUE!
SHRUBS #2 CONTAINER	EACH	5	12	12		29
SHRUBS #1 CONTAINER	EACH	10	27			37
PERENNIAL#1 CONTAINER	EACH		100			100
PERENNIAL PLUGS 4" POTS	EACH	150	400	500		1050
SEED MIXTURE (34-264 MNDOT LAKESHORE)	UNIT	450				450
SEED MIXTURE (34-271 MNDOT WET MEADOW)	UNIT			4,000		#VALUE!
SEED MIXTURE (36-211 MNDOT WOODLAND), 3 LB	UNIT			10000		10000
WEED FREE STRAW	BALES			4		4
TURF RESTORATION	SF	50	1,500	500		2050
HERBIVORE FENCING	LF	100	100	100		300
MEADOW SEEDING	SF			4000		4000
WOODLAND SEEDING	SF			10000		10000
LAKESHORE SEEDING	SF			500		500
FIELDSTONE BOULDERS (18"-30")	TON		2			2
SEATING AREA AND PATH [FLAGSTONE]	LS		1			1
MAINTENANCE VISITS	EACH	8	8	8	3	27

### GENERAL NOTES

**MNDOT SPECIFICATIONS** - All material and construction specifications herein reference the MNDOT Division II and Division III sections of the 2020 MNDOT Specifications Manual.

**RCWD RULES AND STANDARDS** - All work must comply with Rice Creek Watershed District rules and standards.

**DESIGNER CONTACT / INSPECTION** - The Washington Conservation District (WCD) is providing design assistance for this project. Call **Lori Tella @ (651) 315-8964** to schedule a pre-construction meeting and for questions related to design. Coordinate inspections prior to planting, at the project completion and at the end of the establishment period.

**PROJECT MANGER / INSTALLATIONS** - The City of Birchwood is providing construction administration for this project. Call to coordinate construction timeline.

**FIELD VERIFICATION** - Base information including existing contours, location of property lines, buildings and tree locations have been referenced from others. If conditions are different from those shown on the plan contact the WCD prior to proceeding. Contractor shall field verify project areas prior to beginning construction.

**PERMITS** - Contractor is responsible for all permits.

**LABOR RATES** - This project is subject to prevailing wage.

Washington  
Conservation  
District  
455 Hayward Ave N  
Oakdale, MN 55128  
(651) 330-8220  
www.mnwcd.org



Plan created by:

Revision  
7/28/25 [City Review]

Project Manager  
Marcus Johnson  
City of Birchwood  
Village

Project Designer  
Lori Tella

Drawn LT  
Reviewed AR

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Date 8.04.25  
Reg. No. 58219

Lori Tella

Project Title  
Tighe-Schmitz Park Stormwater  
Management Project

Sheet Title  
General Notes/SEQ

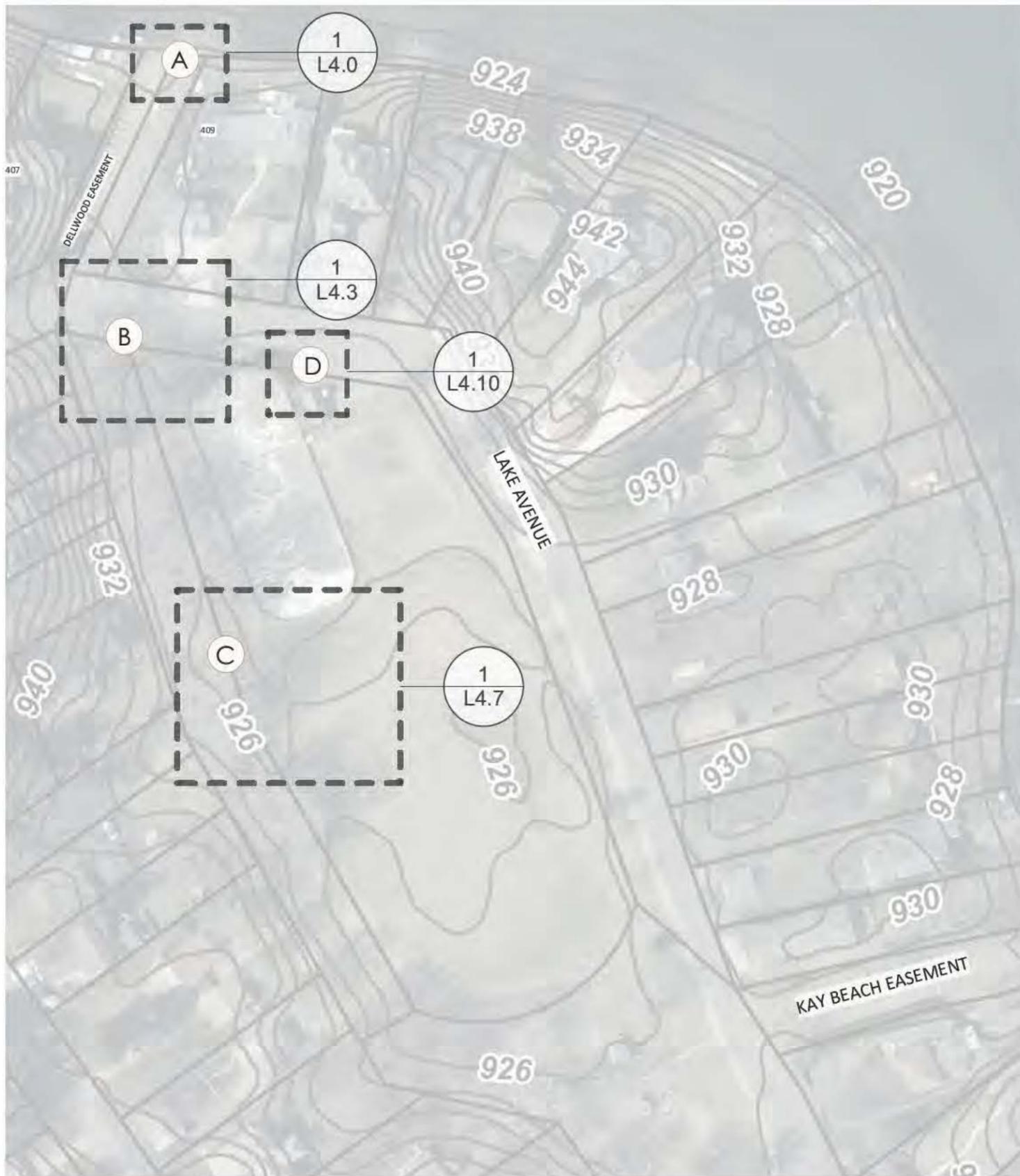
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Date  
7/28/25

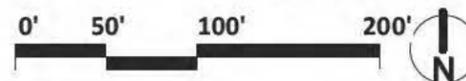
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of

23



1 **Project Overview**  
Scale: 1" = 100'-0"



**PROJECT DESCRIPTION:**

Tighe - Schmitz Park is located south of White Bear Lake on Lake Avenue in Birchwood Village. The park is connected to Hall's Marsh, which is identified as a core habitat, and drains into White Bear Lake. Several of the proposed projects were identified in the 2017 SE White Bear Lake Stormwater Retrofit Analysis identified priority projects intended to benefit the water quality of White Bear Lake.

This project will implement 3-5 bmp practices including biofiltration basins and swales that have direct connection to White Bear Lake and Halls Marsh. These projects include BMP 06 and BMP 05. They have been ranked and identified in the SE White Bear Lake SW Retrofit analysis. Pollutant Load Reduction Targets are 7 lb TP/yr, 2500 lb/ yr of TSS current proposal.

A) Shoreline and Swale Enhancement Zone-  
Annual Total Phosphorous (TP) Reduction Removed: 2.5 lb/yr  
Annual Sediment removed by BMP (TSS): 3,300 lb/yr

B) Filtration Basin (North of Ice Rink)  
BMP 5 Description: Install a 800 SF filtration basin  
Total Drainage Area: .99 AC  
Annual Total Phosphorous (TP) Reduction Removed: 4.09 LB  
Annual Sediment removed by BMP (TSS): 1,246 lb/yr  
Annual Runoff Removed: 0.9 acre Ft/ yr

C) Filtration Basin (South of Ice Rink) and Native Planting Area  
BMP 6 Description: Install a 800 SF filtration basin,  
15,000 SF Native Seeding  
Total Drainage Area: 2.5 AC  
Annual Total Phosphorous (TP) Reduction Removed: 1.53 LB  
Annual Sediment removed by BMP (TSS): 588.0 lb/yr  
Annual Volume: 1 acre Ft/ yr

D: Storm Sack Pretreatment filter  
Pollution Reduction: Average 64% reduction in Phosphates  
Annual Total Phosphorous (TP) Reduction Removed: TBD



Revision	7/28/25 (City Review)
Project Manager	Marcus Johnson City of Birchwood Village
Project Designer	Lon Tella
Drawn	LT
Reviewed	AR

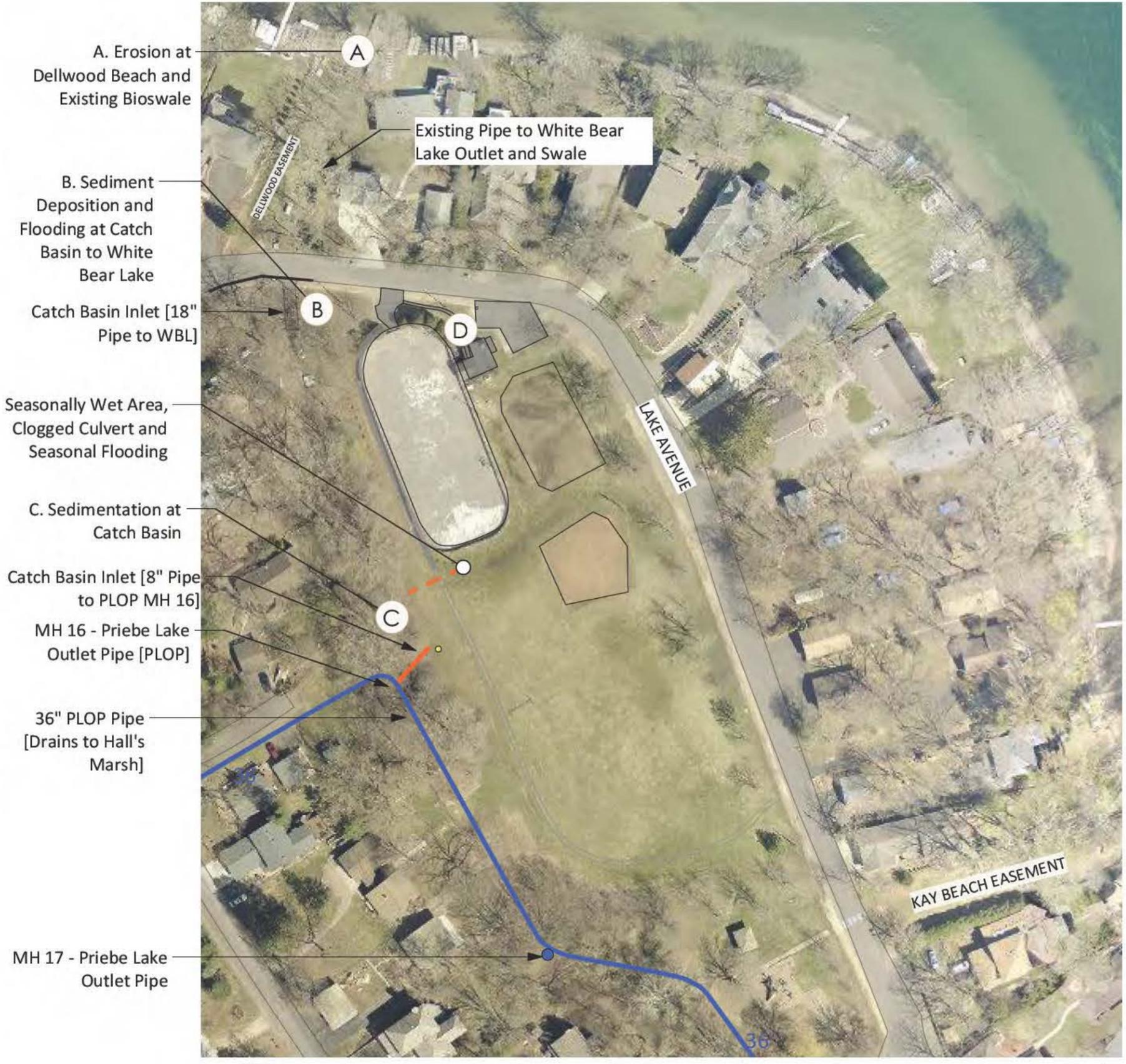
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*Lon Tella*  
Lon Tella  
Date: 8.04.25  
Reg. No. 56219

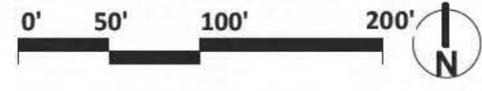
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Sheet Title  
**Project Overview**

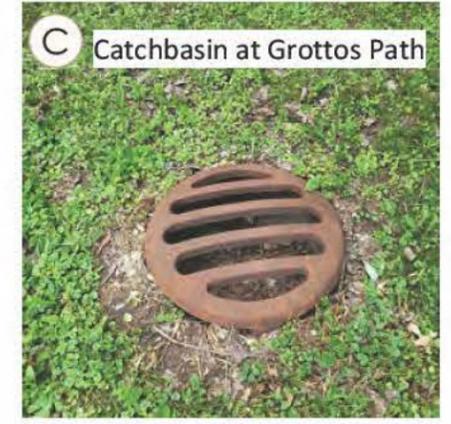
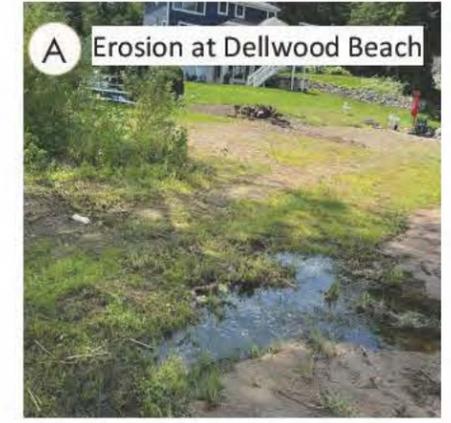
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**1 Existing Conditions**  
Scale: 1" = 100'-0"



**EXISTING CONDITIONS**



Washington Conservation District  
455 Hayward Ave N  
Oakdale, MN 55128  
(651) 330-8220  
www.mnwcd.org

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Project Manager	Marcus Johnson City of Birchwood Village
Project Designer	Lori Tella
Drawn	LT
Reviewed	AR

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*Lori Tella*  
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Date 8.04.25  
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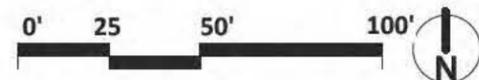
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Sheet Title  
**Existing Conditions**

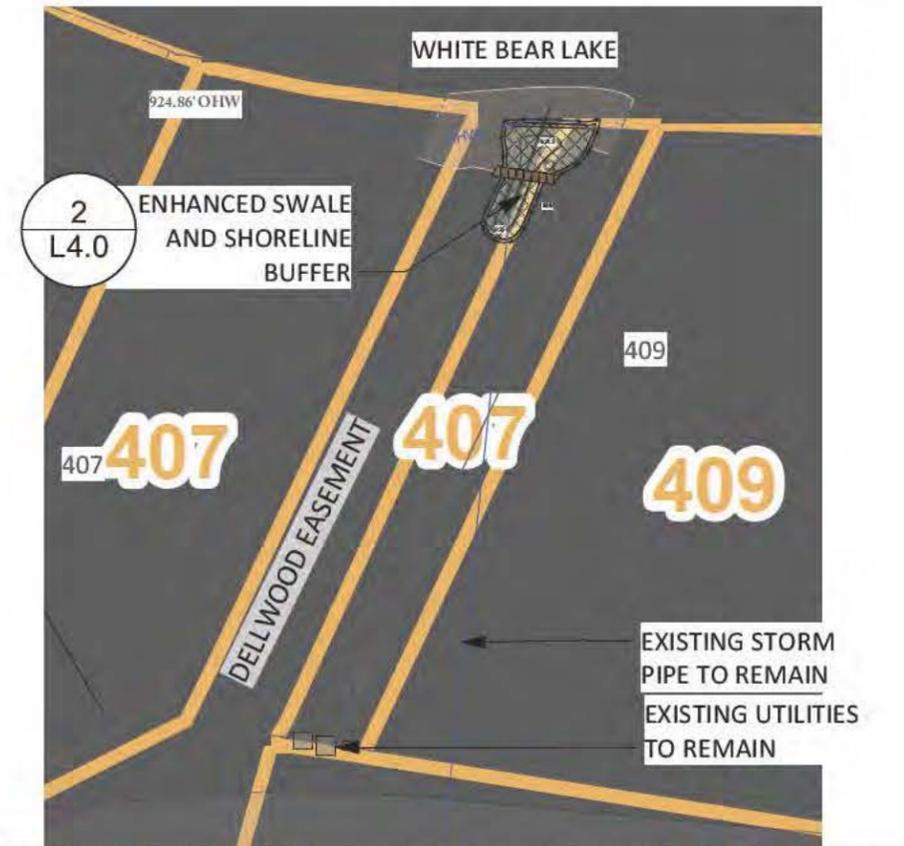
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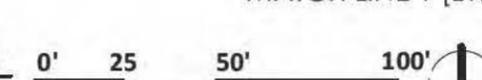
1 **Concept Plan**  
Scale: 1" = 50'-0"



MATCH LINE 2 [L1.5]



2 **Concept Plan**  
Scale: 1" = 50'-0"



MATCH LINE 1 [L1.5]

Washington Conservation District  
455 Hayward Ave N  
Oakdale, MN 55128  
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Plan created by:

Project Manager Marcus Johnson City of Birchwood Village	Project Designer Lon Tella	Drawn LT	Reviewed AR
Revision 7/28/25 [City Review]			

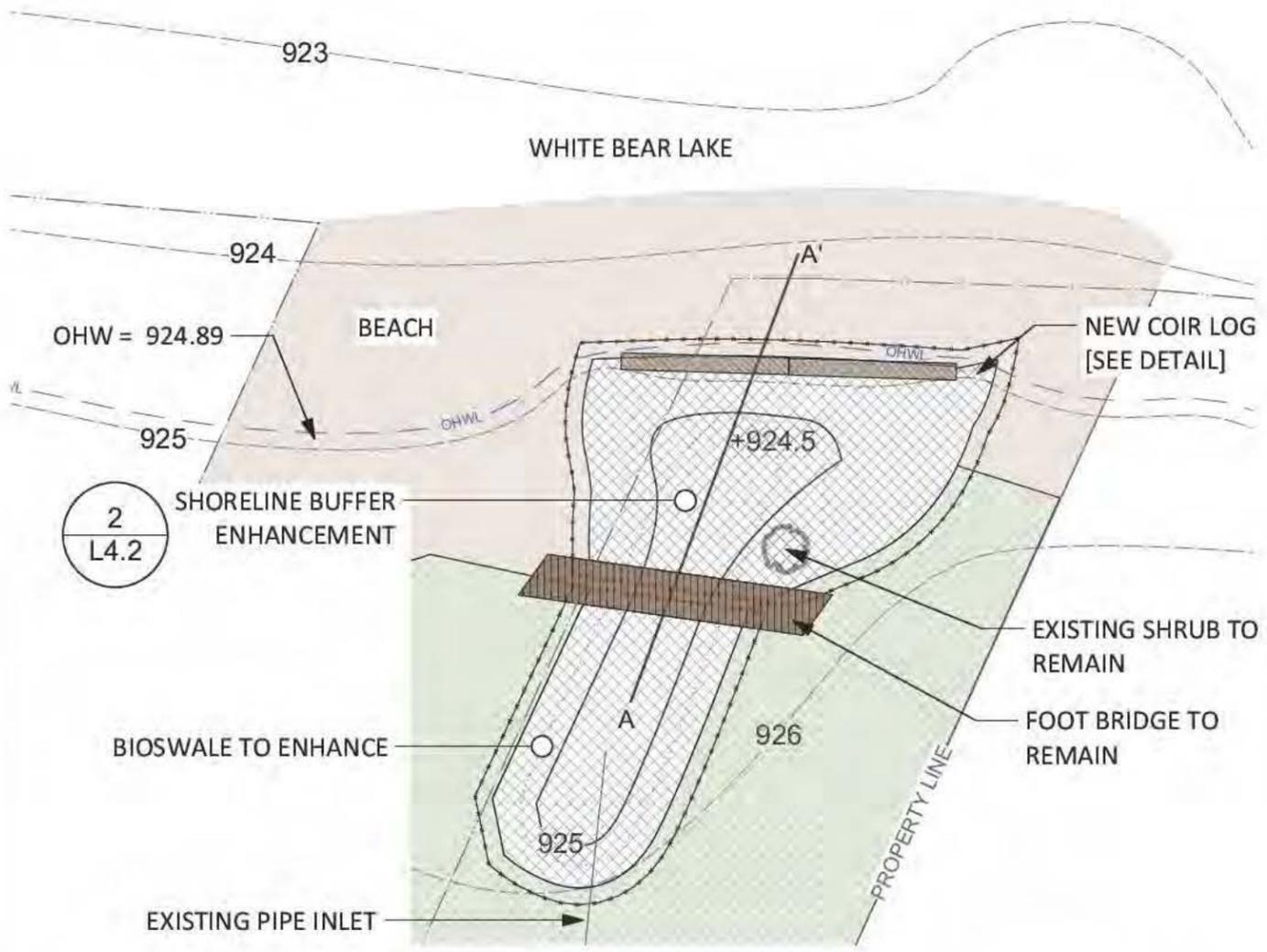
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*Lon Tella*  
Lon Tella  
Date: 8.04.25  
Reg. No. 58219

Project Title: Tighe-Schmitz Park Stormwater Management Project  
Sheet Title: Concept Plan  
C:\D:\18181818 - Plan-Tighe-Schmitz.pbx\_K14-23.rvt

Date: 7/28/25

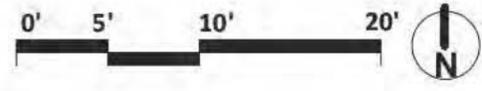
L1.2  
of  
23



2  
L4.2

2  
L4.2

1  
Area A  
Scale: 1" = 10'-0"



**WHITE BEAR LAKE**  
ORDINARY HIGH WATERLEVEL (OHW) = 924.89'  
CURRENT WATER LEVEL = 923.23 (06/30/25)

**MATERIALS LEGEND**

- SHORELINE BUFFER ENHANCEMENT ~ 450 SF**  
 Remove Existing Weeds, Provide 3"-6" ponding. Install erosion control blanket and plant per plan. Re-grade to maintain 2% slope towards shoreline  
 MATERIALS: Erosion Control Blanket and Coir Logs [See RECOMMENDATIONS]
  
- EXISTING TURF TO REMAIN**  
 REPAIR areas damaged during construction

**EROSION CONTROL BLANKET RECOMMENDATIONS:**

SINGLE BLANKET  
NORTH AMERICAN GREEN C700 BN

COIR BLANKET/ MAT  
BELTON GEOCOIR 700  
BELTON GEOCOIR 900  
ROLANKA BioD-MAT 90

DOUBLE NET (OUTER NETTING & INNER FABRIC)  
NORTH AMERICAN GREEN SC150BN  
NORTH AMERICAN GREEN C125BN  
ROLANKA BioD-OCF-NATURAL

SEE MnDOT 2020 APPROVED/ QUALIFIED ROLLED EROSION PREVENTION PRODUCTS FOR CATEGORY 25 AND 30. BLANKETS MUST BE 100% ALL NATURAL MATERIALS. PHOTODEGRADABLE PRODUCTS ARE NOT ALLOWED DUE TO IMPACTS ON WILDLIFE.

**General Notes**

1. OHW MUST BE CLEARLY MARKED PRIOR TO CONSTRUCTION. ADDITIONAL PERMITS MAY BE REQUIRED BEYOND DISTRICT PERMIT. CONTRACTOR RESPONSIBLE FOR OBTAINING ALL PERMITS.
2. CALL BEFORE YOU DIG. IT SHALL BE CONTRACTOR'S RESPONSIBILITY TO LOCATE ANY EXISTING UTILITIES LOCATED WITHIN THE PROJECT AREAS.
3. BASE INFORMATION HAS BEEN REFERENCED FROM OTHERS. IF CONDITIONS DO NOT MATCH THE PLAN NOTIFY THE WCD PRIOR TO PROCEEDING.

Washington Conservation District  
455 Hayward Ave N  
Oakdale, MN 55128  
(651) 330-8220  
www.mnwcd.org



Project Manager/ Marcus Johnson City of Birchwood Village	Project Designer Lori Tella	Drawn LT	Reviewed AR
Revision 7/28/25 (City Review)			

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

*Lori Tella*  
Lori Tella  
Date 8.04.25  
Reg. No. 58219

Project Title Tighe-Schmitz Park Stormwater Management Project	Sheet Title Area A - Layout
CAD Standards: Proj: Forests; Sheet: 04-23.rvt	

Date  
7/28/25

**L4.0**  
of  
23



**General Notes**

1. THE ORDINARY HIGH WATER LINE (OHW) MUST BE STAKED OFF AND MARKED TO KEEP ALL CONSTRUCTION TRAFFIC, EQUIPMENT, AND MATERIAL STOCKPILES OUT OF THE PROPOSED PLANTING AREA. CONSTRUCTION ACTIVITIES BELOW THE OHW MUST BE APPROVED BY THE DNR.
2. INSTALL NEW TREES BY EXCAVATING TWICE THE SIZE OF THE ROOT BALL WIDTH, BACKFILL WITH 70/30% TOPSOIL AND SAND MIX. INSTALL HERBIVORE FENCING AND PROTECTION FOR ALL TREES AND SHRUBS.
3. INSTALL HERBIVORE FENCING AND PROTECTION FOR ALL TREES AND SHRUBS. PLACEMENT OF TREES AND SHRUBS ARE APPROXIMATE. FIELD-FIT AND ADJUST QUANTITIES AND LOCATIONS AS NEEDED.
4. APPLY WATER AS NEEDED IN COMBINATION WITH RAINFALL TO ACHIEVE THE FOLLOWING: A. MINIMUM RATE: 1 INCH PER WEEK. B. MAXIMUM INTERVAL BETWEEN WATERING: 72 HOURS. C. MINIMUM APPLICATION PER WATERING: 0.25 INCH. 2) DURING EXTREME HEAT OR DROUGHT PERIODS, INCREASE WATERING TO MAINTAIN MOIST SOIL TO A DEPTH OF 4 INCHES. 3) MAINTAIN ADEQUATE SOIL MOISTURE IN THE UPPER 12-INCHES OF SOIL FOR THE FIRST GROWING SEASON AND IN TIMES OF DROUGHT.

**PLANT SCHEDULE - AREA A**

SYMBOL	QTY.	NAME/ SPECIES OPTIONS	SIZE
	1	<b>Quaking Aspen</b> <i>Populus tremuloides</i> <b>Black Willow</b> <i>Salix nigra</i> <b>Pagoda Dogwood</b> <i>Cornus alternifolia</i>	#10 cont.
	5	<b>Red Twig Dogwood</b> <i>Cornus sericea</i> <b>Black Chokeberry</b> <i>Aronia melanocarpa</i>	#2 cont.
	10	<b>Dwarf Bush Honeysuckle</b> <i>Diervilla lonicera</i> <b>Meadowsweet</b> <i>Spiraea alba</i> <b>Blue False Indigo</b> <i>Baptisia australis</i>	#1 cont.

**GROUND COVER**

**Enhanced Shoreline Buffer Planting -300 SF**  
4" PLUGS: ~ 80 @ 18"-24" OC

**QTY. NAME/ SPECIES OPTIONS**

- 5 Sneezeweed (*Helenium autumnale*)
- 5 Canada Anemone (*Anemone canadensis*)
- 5 Boneset (*Eupatorium perfoliatum*)
- 5 Blue Vervain (*Verbena hastata*)
- 5 Swamp Milkweed (*Asclepias incarnata*)
- 5 Prairie Dropseed (*Sporobolus heterolepis*)
- 10 Tussock Sedge (*Carex stricta*)
- 40 Bebb's Sedge (*Carex bebbi*)

SEED MIX: BWSR  
Lakeshore Seed Mix  
[See Seed Mixes]

**Enhanced Bioswale Planting ~150 SF**  
4" PLUGS: ~ 70 @ 12-18" OC.

**QTY. NAME/ SPECIES OPTIONS**

- 10 Blue Flag Iris (*Iris versicolor*)
- 10 Cardinal Flower (*Lobelia cardinalis*)
- 10 White Turtlehead (*Chelone glabra*)
- 20 Plains Oval Sedge (*Carex brevior*)
- 10 Fox Sedge (*Carex vulpinoidea*)
- 10 Soft Rush (*Juncus effusus*)

SEED MIX: BWSR  
Lakeshore Seed Mix  
[See Seed Mixes]

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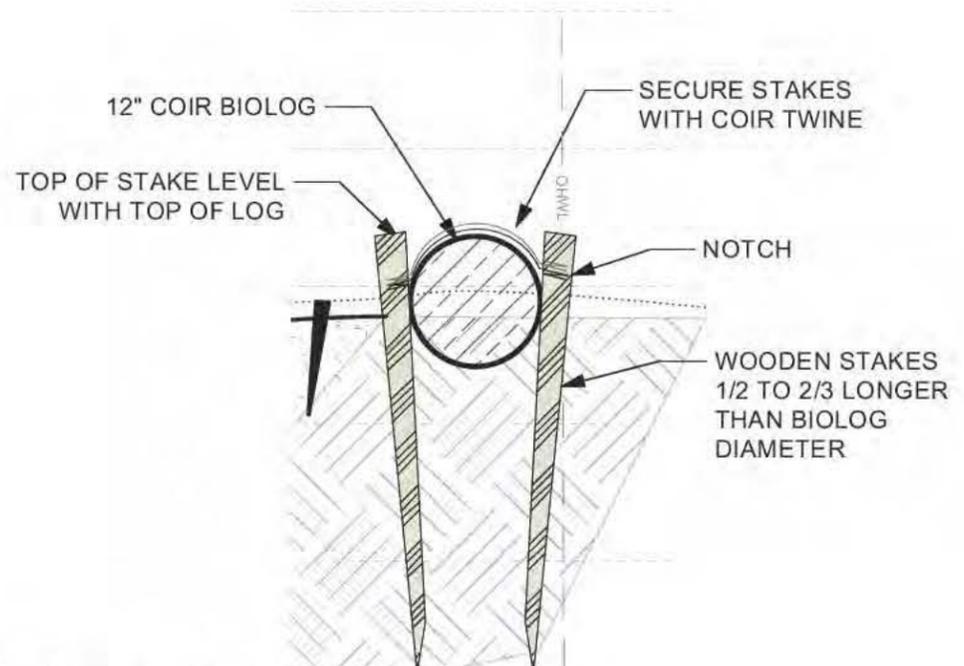
Revision	7/28/25 (City Review)
Project Manager	Marcus Johnson City of Birchwood Village
Project Designer	Lon Tella
Drawn	LT
Reviewed	AR

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*Lon Tella*  
Lon Tella  
Date 8.04.25  
Reg. No. 58219

Project Title	Tighe-Schmitz Park Stormwater Management Project
Sheet Title	Area A - Planting Plan
CAD Database	Proj_ForestPlant_Plan_14.3.dwg

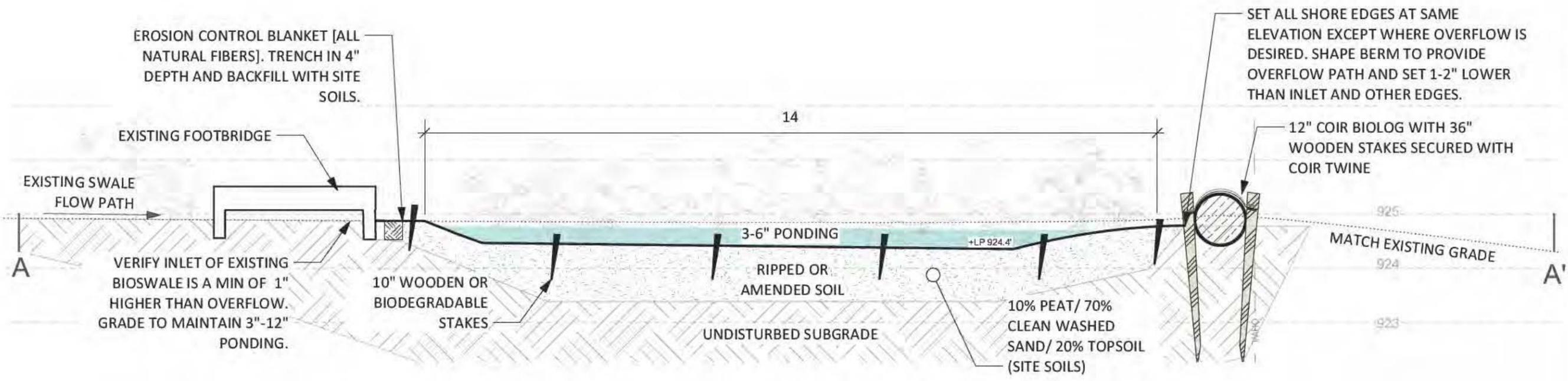
Date  
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**1 Coir Log Enlargement**  
Scale: 3/4" = 1'-0"

**General Notes**

1. OHW MUST BE CLEARLY MARKED PRIOR TO CONSTRUCTION. ADDITIONAL PERMITS MAY BE REQUIRED BEYOND DISTRICT PERMIT. PERMITTEE SHALL BE RESPONSIBLE FOR & ACQUIRE ANY ADDITIONAL REQUIRED PERMITS.
2. 12" COIR BIOLOG SHALL BE INSTALLED PER MANUFACTURE'S SPECIFICATIONS. WHEN STAKING ENSURE GOOD SOIL CONTACT THROUGHOUT THE LENGTH OF THE COIR LOG. OVERLAP EDGES OF LOG SECTIONS BY 1 FOOT TO PREVENT WATER FROM PASSING THROUGH.
3. PLACE COIR LOG WHERE BANK SUPPORT IS NEEDED OR WHERE WATER LEVEL IS ANTICIPATED TO BE 1/2 OF THE COIR LOG'S HIEGHT.
4. EROSION CONTROL BLANKET MAY BE USED TO STABILIZE SOIL AFTER SEEDING. INSTALL CATEGORY 30 EROSION CONTROL BLANKET (OR APPROVED EQUAL). BLANKET SHALL BE TRENCHED IN AND BACKFILLED WITH TAMPED NATIVE SOIL AND SECURED WITH BIODEGRADABLE STAKES.



**2 Section A- A' Enhanced Buffer**  
Scale: 1/2" = 1'-0"

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Revision	7/28/25 [City Review]
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Project Designer	Lori Tella
Drawn	LT
Reviewed	AR

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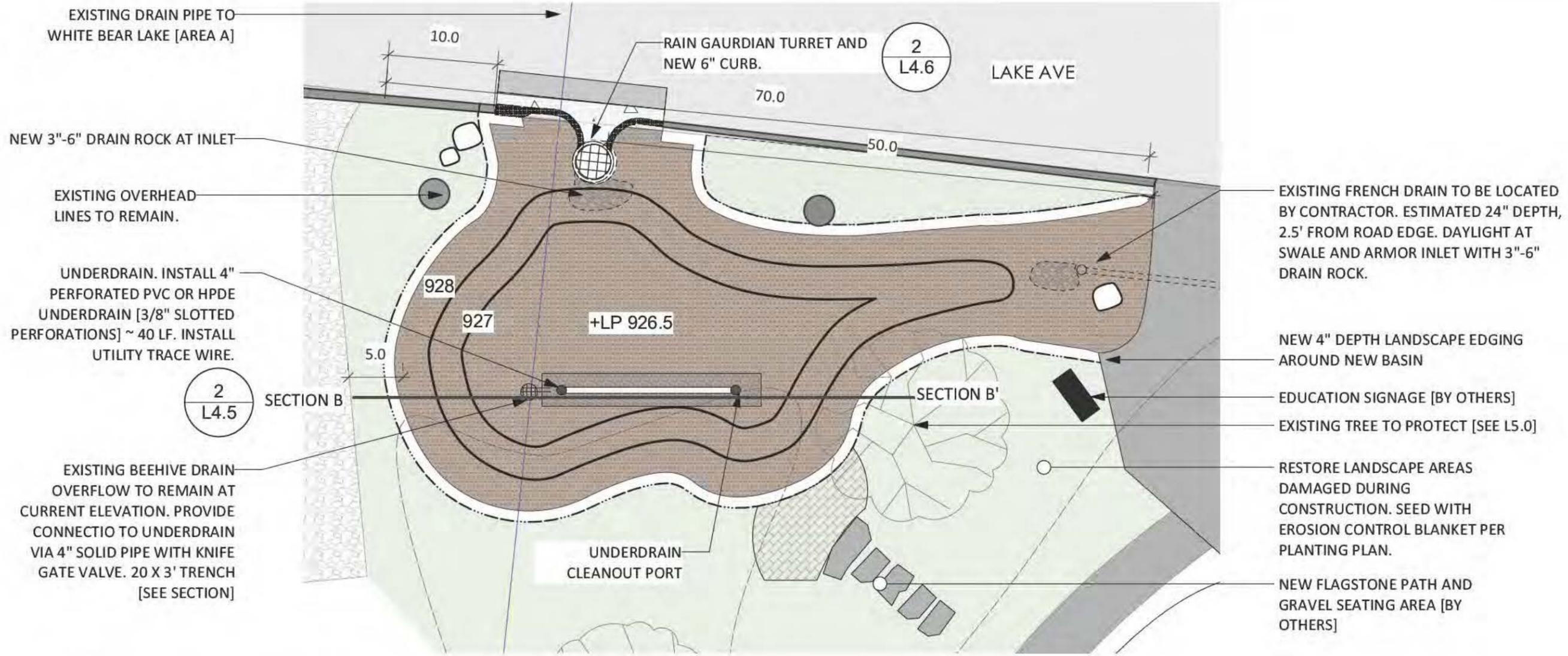
*Lori Tella*  
Lori Tella  
Date 8.04.25  
Reg. No. 58219

Project Title  
Tighe-Schmitz Park Stormwater  
Management Project

Sheet Title  
Area A- Section A

CAD: 08/18/2025 - Post-Processing.dwg (14:33:00)

Date  
7/28/25



1 Area B -Layout Plan  
Scale: 1" = 10'-0"

**MATERIALS LEGEND**

- BASIN~ 1,500 SF**  
DEMO: Remove Existing Weeds, Grade and plant per plan  
MATERIALS: 2-3" Depth Hardwood Bark Mulch, 155 LF Edging
- RIVER ROCK ~ 100 SF**  
MATERIALS: varied graded river rock at inlets
- EXISTING TURF TO REMAIN**  
REPAIR areas damaged during construction

**General Notes**

1. CALL BEFORE YOU DIG. LOCATE ALL UNDERGROUND UTILITES PRIOR TO CONSTRUCTION.
2. ENSURE PROPER TRAFFIC CONTROL AND WORK IS COORDINATED WITH THE CITY
3. INSTALL EROSION CONTROL DEVICES TO PREVENT SEDIMENT FROM LEAVING THE SITE. CLEAN UP TRACK OUT.
4. CONTRACTOR SHALL CONDUCT AN INFILTRATION TEST PRIOR TO CONSTRUCTING RAIN GARDEN. INFILTRATION RATE SHALL BE A MINIMUM OF 1.5" PER HOUR. AMEND SOILS TO ACHIEVE THIS REQUIREMENT WITH 20% MNDOT CATEGORY #2 COMPOST OR BIOCHAR, 50% SAND AND 30% TOPSOIL [OR APPROVED EQUAL]. IF THIS REQUIREMENT CANNOT BE MET, CONTACT THE OWNER'S REPRESENTATIVE BEFORE PROCEEDING.
5. RAIN GARDEN SHALL RECEIVE 2-3" DOUBLE SHREDDED BARK MULCH.
6. ALL ELEVATIONS ARE RELATIVE TO GUTTER AT CURB-CUT. IT IS CRITICAL THAT THE TOP OF THE CONCRETE PRETREATMENT CHAMBER PAD BE PRECISELY 1" BELOW THE CURB CUT.
7. ARMOR INLET WITH 3-6" ANGULAR DRAIN ROCK
8. PRESERVE ALL EXISTING VEGETATION UNLESS REMOVAL IS DULY NOTED WITHIN PLAN OR APPROVED BY OWNER'S REPRESENTATIVE. REPAIR AREAS DAMAGED BY CONSTRUCTION.

- EXISTING FRENCH DRAIN TO BE LOCATED BY CONTRACTOR. ESTIMATED 24" DEPTH, 2.5' FROM ROAD EDGE. DAYLIGHT AT SWALE AND ARMOR INLET WITH 3"-6" DRAIN ROCK.
- NEW 4" DEPTH LANDSCAPE EDGING AROUND NEW BASIN
- EDUCATION SIGNAGE [BY OTHERS]
- EXISTING TREE TO PROTECT [SEE L5.0]
- RESTORE LANDSCAPE AREAS DAMAGED DURING CONSTRUCTION. SEED WITH EROSION CONTROL BLANKET PER PLANTING PLAN.
- NEW FLAGSTONE PATH AND GRAVEL SEATING AREA [BY OTHERS]

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Revision	7/28/25 [City Review]
Project Manager	Marcus Johnson City of Birchwood Village
Project Designer	Lori Tella
Drawn	LT
Reviewed	AR

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*Lori Tella*  
Lori Tella  
Date 8.04.25  
Reg. No. 58219

Project Title  
**Tighe-Schmitz Park Stormwater Management Project**

Sheet Title  
**Area B - Layout Plan**

CSO File Name: Plan/Tighe-Schmitz\_Park/04-23.rvt



# PLANT SCHEDULE

## TREES AND SHRUBS

SYMBOL	QTY.	NAME/ SPECIES	SIZE
	6	<b>Fragrant Sumac</b> <i>Rhus aromatica</i> 'Gro-Low	#2 cont.
	6	<b>Red Twig Dogwood</b> <i>Cornus sericea</i>	#2 cont.
		<b>Black Chokeberry</b> <i>Aronia melanocarpa</i>	
	8	<b>Interrupted Fern</b> <i>Osmunda claytoniana</i>	#1 cont.
	19	<b>Dwarf Bush Honeysuckle</b> <i>Diervilla lonicera</i>	#1 cont.
		<b>False Indigo</b> <i>Baptisia australis</i>	

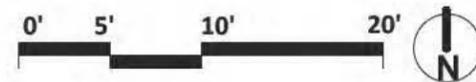
## PERENNIALS

	50	<b>Native Grass</b> Prairie Dropseed ( <i>Sporobolus heterolepis</i> ) Star Sedge ( <i>Carex radiata</i> )	#1 cont.
	30	<b>Flowering Perennials -TYPE 1</b> Prairie Phlox ( <i>Phlox pilosa</i> ) Prairie Onion ( <i>Allium stellatum</i> ) Bradbury's Monarda ( <i>Monarda bradburiana</i> )	#1 cont.
	20	<b>Flowering Perennials -TYPE 2</b> Purple Coneflower ( <i>Echinacea purpurea</i> ) Large-leaved Aster ( <i>Eurybia macrophylla</i> ) Columbine ( <i>Aquilegia canadensis</i> )	#1 cont.

## GROUNDCOVER

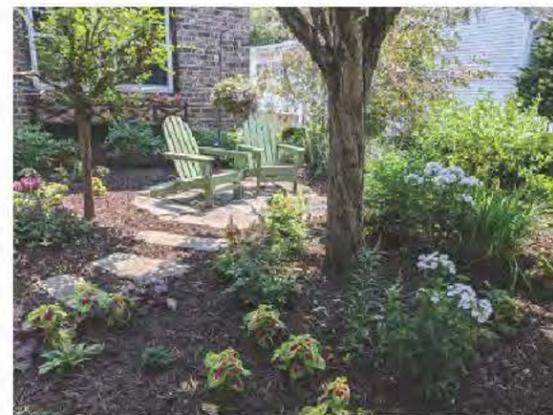
	<b>Basin Plants -350 sf</b> PLUGS: ~ 150 @ SPACING: 12"-18" OC
	25 Blue Flag Iris ( <i>Iris versicolor</i> )
	25 Canada Anemone ( <i>Anemonastrum canadense</i> )
	50 Lake Sedge ( <i>Carex lacustris</i> )
	50 Bebb's Oval Sedge ( <i>Carex bebbii</i> )
	<b>Basin Edges - 550 sf</b> PLUGS: ~ 250 @ 18"- 24" OC
	25 Wild Strawberry ( <i>Fragaria virginiana</i> )
	50 Canadian Wild Ginger ( <i>Asarum canadense</i> )
	50 Plains Oval Sedge ( <i>Carex brevior</i> )
	50 Pennsylvania Sedge ( <i>Carex pennsylvanica</i> )
	50 Fox Sedge ( <i>Carex vulpinoidea</i> )
	50 Little Blustem ( <i>Schizachyrium scoparium</i> )

1 **Area B**  
Scale: 1" = 10'-0"



### General Notes

1. CALL BEFORE YOU DIG. ALL UTILITIES AND IRRIGATION LINES MUST BE STAKED OFF AND MARKED TO KEEP ALL CONSTRUCTION TRAFFIC, EQUIPMENT, AND MATERIAL STOCKPILES OUT OF THE PROPOSED PLANTING AREA.
2. SEE PLANT SCHEDULE, SPECIFICATIONS AND GENERAL RECOMMENDATIONS.



CONCEPTUAL SITTING AREA

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Revision 7/28/25 [City Review]			
Project Manager Marcus Johnson City of Birchwood Village	Project Designer Lori Tella	Drawn LT	Reviewed AR

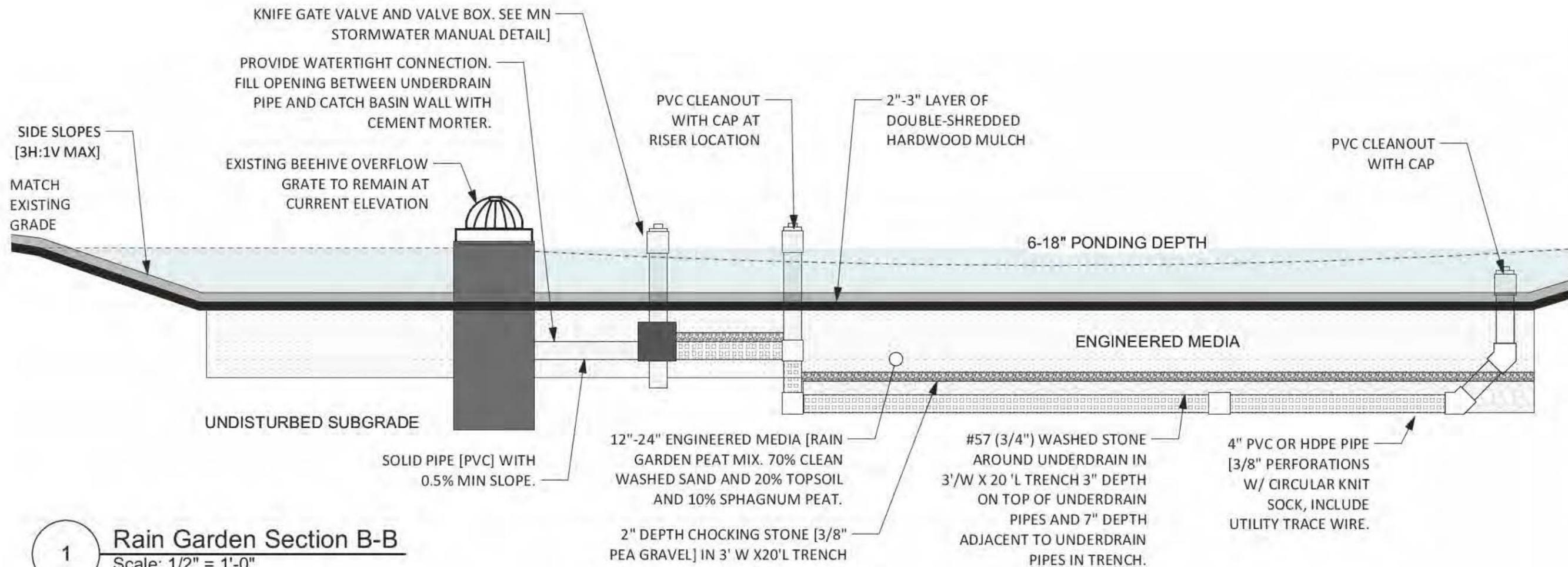
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*Lori Tella*  
Lori Tella  
Date 8.04.25  
Reg. No. 58219

Project Title Tighe-Schmitz Park Stormwater Management Project	Sheet Title Area B - Planting Plan
--	---------------------------------------

Date  
7/28/25

**L4.4**  
of  
23



1 Rain Garden Section B-B  
Scale: 1/2" = 1'-0"

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Revision	7/28/25 [City Review]
Project Manager	Marcus Johnson City of Birchwood Village
Project Designer	Lori Tella
Drawn	LT
Reviewed	AR

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*Lori Tella*  
Lori Tella  
Date 8.04.25  
Reg. No. 58219

Project Title	Tighe-Schmitz Park Stormwater Management Project
Sheet Title	Area B - Section 1
CD Number	Proj Form 608-01 (04/2014)



Revision	7/28/25 [City Review]
Project Manager	Marcus Johnson City of Birchwood Village
Project Designer	Lon Tella
Drawn	LT
Reviewed	AR

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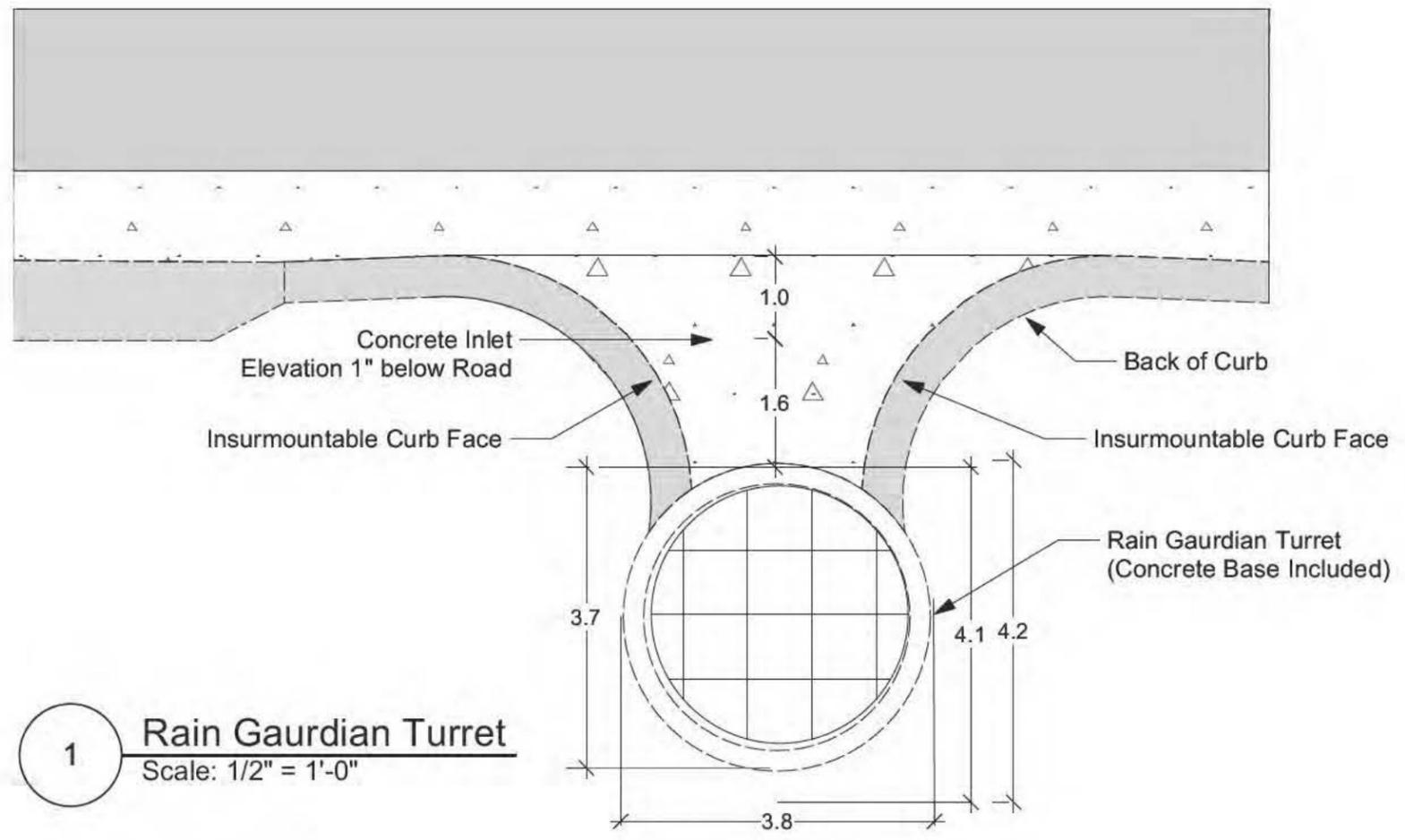
Project Title  
**Tighe-Schmitz Park Stormwater Management Project**

Sheet Title  
**Area B - Section 2**

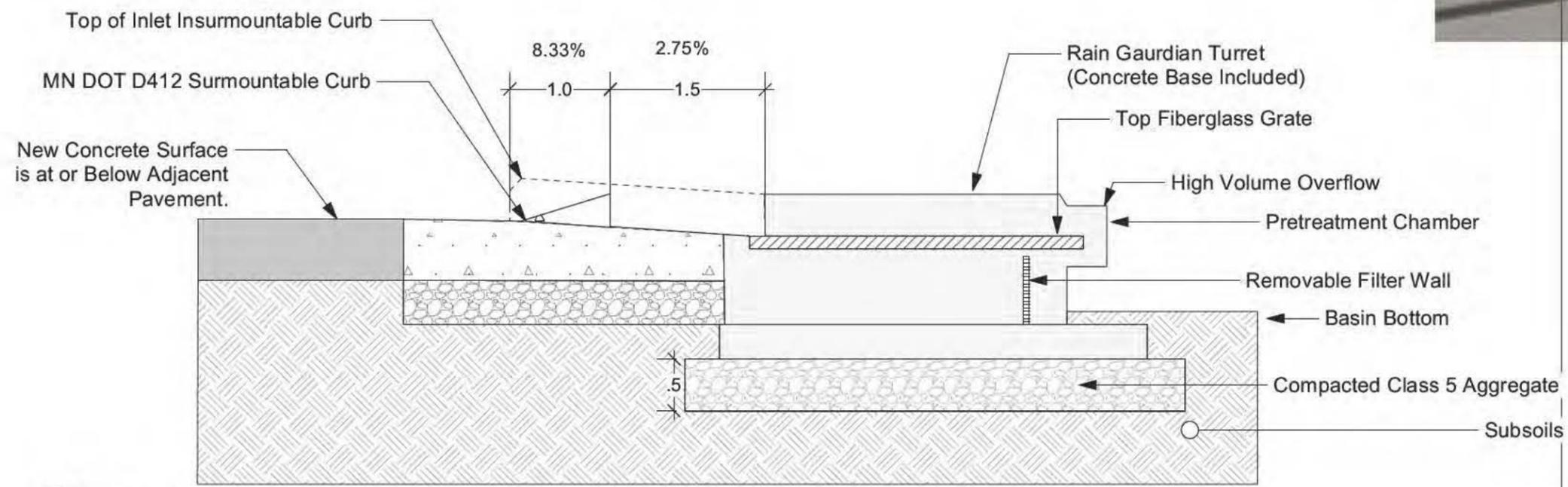
CAD Release: Plan/Tighe-Schmitz\_01%\_04-25.rvt

**PLAN VIEW NOTES**

1. INLET WIDTH AND DISTANCE BETWEEN BACK OF CURB AND RAIN GUARDIAN TURRET MAY VARY WITH SITE CONDITIONS.
2. CONCRETE BASE EXTENDS BEYOND THE FILTER WALL OF THE RAIN GUARDIAN TURRET TO SERVE AS A SPLASH DISSIPATOR.



**1 Rain Gaurdian Turret**  
 Scale: 1/2" = 1'-0"



**2 Rain Gaurdian Turret**  
 Scale: 3/4" = 1'-0"

**3D VIEWS**





## MATERIALS LEGEND

- 
**BASIN~ 1,500 SF**  
 DEMO: Remove Existing Weeds, Grade and plant per plan  
 MATERIALS: 2-3" Depth Hardwood Bark Mulch, 155 LF Edging
- 
**WET MEADOW PLANTING ~ 1,000 SF**  
 DEMO: Remove Existing Turf, Broadcast Native Seed [See Seed Mixes]  
 MATERIALS: New 6" HDPE pipe under trail (30 LF section)  
 Install erosion control blanket or weed-free straw per plan.
- 
**EXISTING TURF TO REMAIN**  
 REPAIR areas damaged during construction

### General Notes

1. CALL BEFORE YOU DIG. LOCATE ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
2. ENSURE PROPER TRAFFIC CONTROL AND WORK IS COORDINATED WITH THE CITY
3. INSTALL EROSION CONTROL DEVICES TO PREVENT SEDIMENT FROM LEAVING THE SITE. CLEAN UP TRACK OUT.
4. CONTRACTOR SHALL CONDUCT AN INFILTRATION TEST PRIOR TO CONSTRUCTING RAIN GARDEN. INFILTRATION RATE SHALL BE A MINIMUM OF 1.5" PER HOUR. AMEND SOILS TO ACHIEVE THIS REQUIREMENT WITH 20% MNDOT CATEGORY #2 COMPOST OR BIOCHAR, 50% SAND AND 30% TOPSOIL [OR APPROVED EQUAL]. IF THIS REQUIREMENT CANNOT BE MET, CONTACT THE OWNER'S REPRESENTATIVE BEFORE PROCEEDING.
5. RAIN GARDEN SHALL RECEIVE 2-3" DOUBLE SHREDDED BARK MULCH.
6. ALL ELEVATIONS ARE RELATIVE TO GUTTER AT CURB-CUT. IT IS CRITICAL THAT THE TOP OF THE CONCRETE PRETREATMENT CHAMBER PAD BE PRECISELY 1" BELOW THE CURB CUT.
7. ARMOR INLET WITH 3-6" ANGULAR DRAIN ROCK
8. PRESERVE ALL EXISTING VEGETATION UNLESS REMOVAL IS DULY NOTED WITHIN PLAN OR APPROVED BY OWNER'S REPRESENTATIVE. REPAIR AREAS DAMAGED BY CONSTRUCTION.

1 Area C  
Scale: 1" = 20'-0"



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(651) 330-8220  
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Project Designer	Lon Tella
Drawn	LT
Reviewed	AR

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*Lon Tella*  
Lon Tella  
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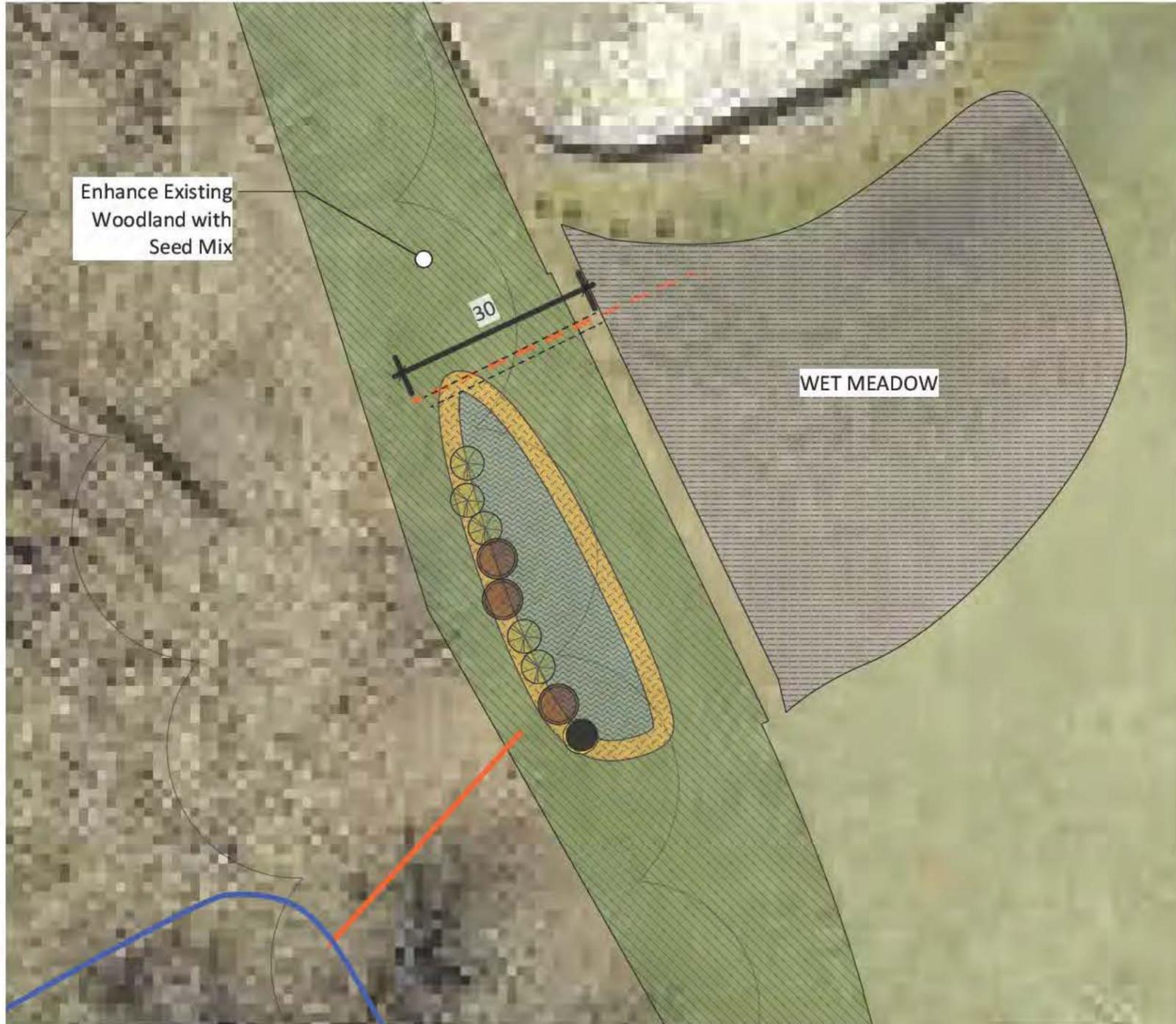
Project Title  
Tighe-Schmitz Park Stormwater Management Project

Sheet Title  
Area C- Layout Plan

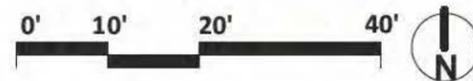
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Date  
7/28/25

L4.7  
of  
23



1 Area C  
Scale: 1" = 20'-0"



# PLANT SCHEDULE

## TREES AND SHRUBS

SYMBOL	QTY.	NAME/ SPECIES	SIZE
	6	<b>Fragrant Sumac</b> <i>Rhus aromatica</i> 'Gro-Low' <b>Dwarf Bush Honeysuckle</b> <i>Diervilla lonicera</i>	#2 cont.
	6	<b>Red Twig Dogwood</b> <i>Cornus sericea</i> <b>Black Chokeberry</b> <i>Aronia melanocarpa</i>	#2 cont.

## GROUND COVER

- Basin Plants - 600 sf**  
PLUGS: ~ 300 @ SPACING: 12"-18" OC
  - 25 Blue Flag Iris (*Iris versicolor*)
  - 25 Swamp Milkweed (*Asclepias incarnata*)
  - 50 Canada Anemone (*Anemonastrum canadense*)
  - 100 Fox Sedge (*Carex vulpunoidea*)
  - 100 Bebb's Oval Sedge (*Carex bebbii*)
- Pollinator Planting - 400 sf**  
PLUGS: ~ 200 @ 18"- 24" OC
  - 20 Wild Strawberry (*Fragaria virginiana*)
  - 20 Prairie Phlox (*Phlox pilosa*)
  - 20 Prairie Onion (*Allium stellatum*)
  - 20 Bradbury's Monarda (*Monarda bradburiana*)
  - 20 Blackeyed Susan (*Rudbeckia hirta*)
  - 50 Plains Oval Sedge (*Carex brevior*)
  - 50 Prairie Dropseed (*Sporobolus heterolepis*)

**Wet Meadow Seed Mix - 4,000 sf**  
Install MnDot Category #25 ECB or Weed Free Straw Native Seed Mix [Wet Meadow] See Seed Mixes

**Woodland Edge Seed Mix - 10,000 sf**  
Weed Free Straw, Native Seed Mix [Forest Edge] See Seed Mixes

### General Notes

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- SEE PLANT SCHEDULE, SPECIFICATIONS AND GENERAL RECOMMENDATIONS.

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Reviewed	AR

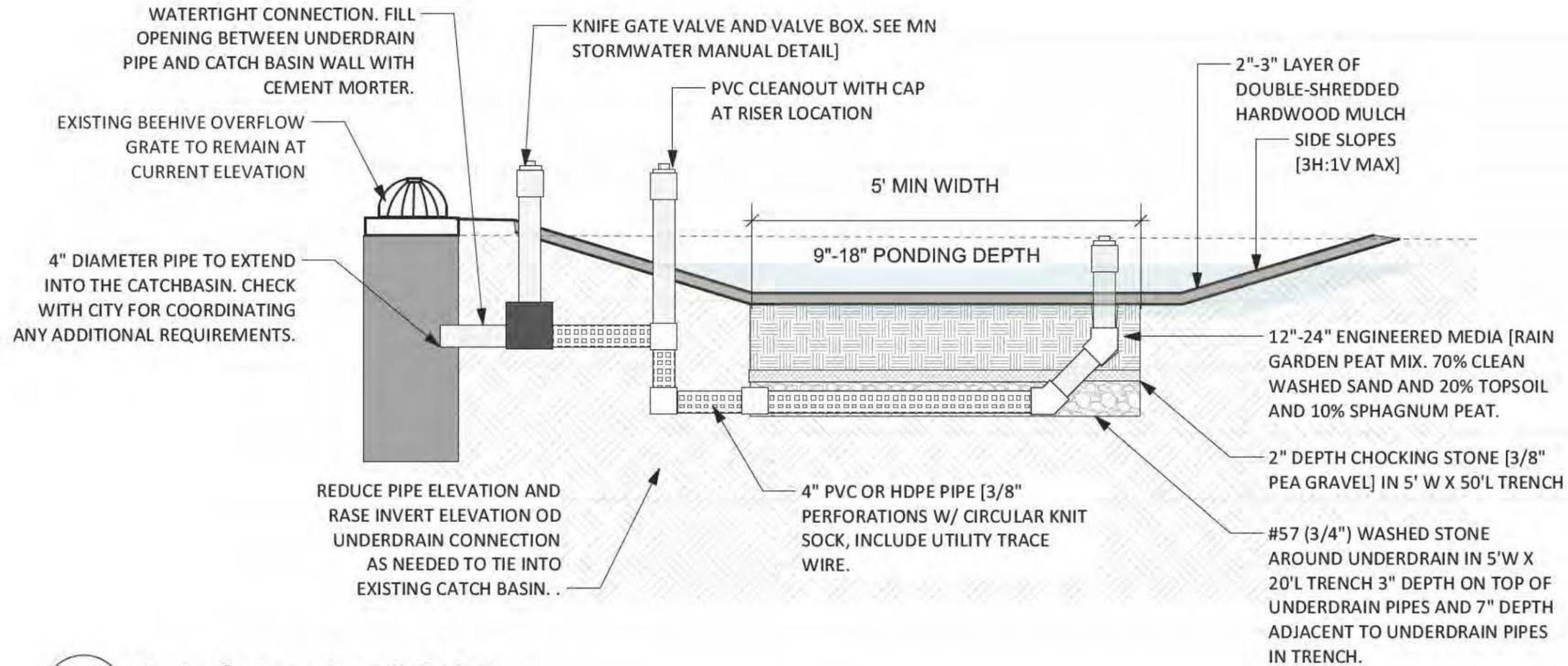
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*Lon Tella*  
Lon Tella  
Date 8.04.25  
Reg. No. 56219

Project Title  
**Tighe-Schmitz Park Stormwater Management Project**

Sheet Title  
**Area C- Planting**

CAD File Name: Plan-Tighe-Schmitz\_gf1\_K14-26.rvt



929  
928  
927  
926  
925  
924  
923  
922  
921  
920

1 Rain Garden Detail [TYP]  
Scale: 1/2" = 1'-0"

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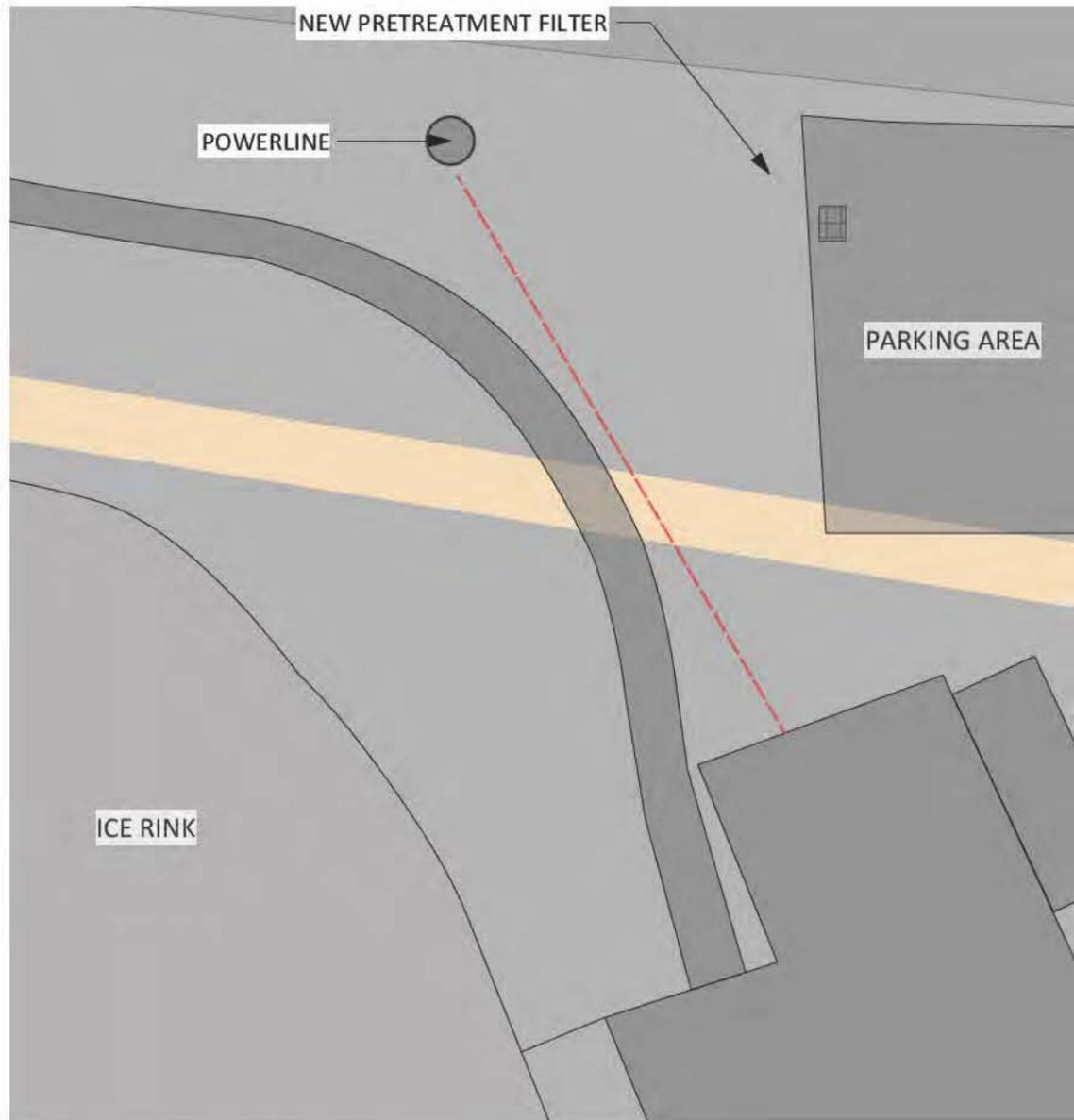
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*Lori Tella*  
Lori Tella  
Date 8.04.25  
Reg. No. 58219

Project Title	Tighe-Schmitz Park Stormwater Management Project
Sheet Title	Area C - Section
Scale	AS SHOWN

Date  
7/28/25



1 Area D- Pretreatment  
Scale: 1" = 10'-0"



StormSack is a geotextile catch basin insert



D Clogged Inlet at Parking Lot

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Reviewed	AR

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*Lori Tella*  
Lori Tella  
Date 8.04.25  
Reg. No. 56219

Project Title  
Tighe-Schmitz Park Stormwater  
Management Project

Sheet Title  
Area D- Layout

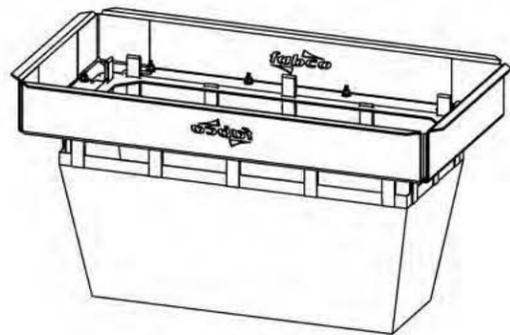
CAD File Name: Plan-Tighe-Schmitz\_20%\_8.04.25.dwg

Date  
7/28/25

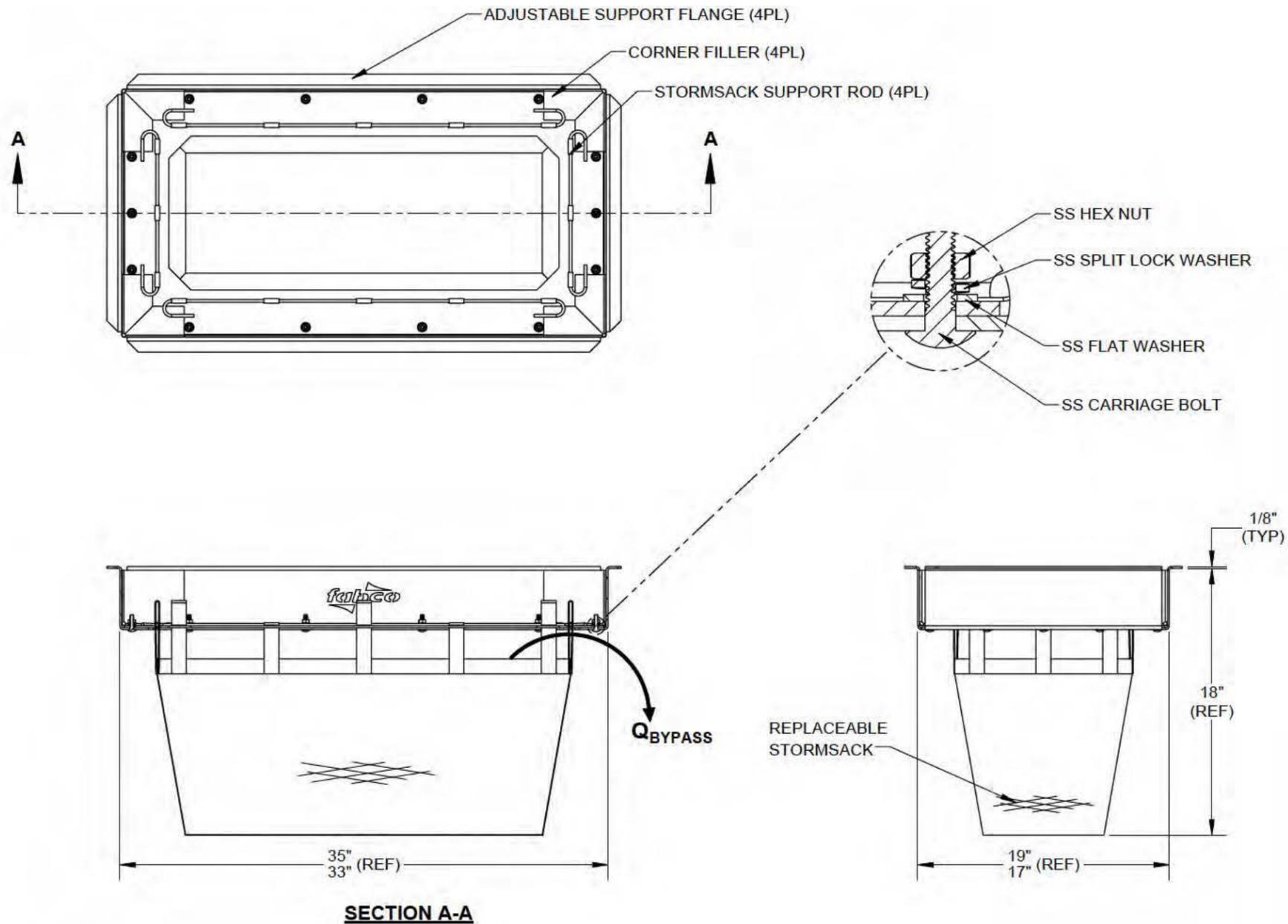
**NOTES:**

1. TOTAL WEIGHT, EMPTY: 15 LBS (MAX)
2. MATERIALS:
  1. FRAME: ALUMINUM ALLOY, 5000 SERIES
  2. STORMSACK: GEOTEXTILE, 20 US SIEVE
  3. HARDWARE: STAINLESS STEEL
3. PERFORMANCE CHARACTERISTICS:
  1. DEBRIS CAPACITY: 1.8 CU. FT
  2. FILTERED FLOWRATE: 1375 GPM (3.0 CFS)
  3. BYPASS FLOWRATE: 1400 GPM (3.1 CFS)
4. CLEAR OPENING RANGE:
  1. MINIMUM SIZE: 17" X 33"
  2. MAXIMUM SIZE: 19" X 35"
5. TYPICAL INSTALLATION:
 

CAREFULLY REMOVE THE STORM GRATE, MEASURE CATCH BASIN FRAME CLEAR OPENING AND ADJUST FLANGES TO REST ON GRATE SUPPORT LEDGE. INSTALL STORMSACK AND VERIFY EACH FLANGE IS SECURE AND THE UNIT IS SNUG WITH LITTLE MOVEMENT IN THE DRAIN. INSTALL CORNER FILLERS USING PROVIDED DOUBLE-SIDED TAPE. REINSTALL THE STORM GRATE DIRECTLY ON THE STORMSACK ADJUSTABLE SUPPORT FLANGES.
6. RECOMMENDED MINIMUM VAULT DEPTH 2" BELOW STORMSACK
7. REPLACEMENT STORMSACK P/N: BSM1834-1-120B



**REFERENCE VIEW**



**SECTION A-A**

**PROPRIETARY AND CONFIDENTIAL**  
 THIS DOCUMENT IS THE PROPERTY OF FABCO INDUSTRIES AND IS CONVEYED WITH THE EXPRESS CONDITION THAT IT AND THE INFORMATION CONTAINED IN IT ARE NOT TO BE USED, DISCLOSED, OR REPRODUCED IN WHOLE OR IN PART, FOR ANY PURPOSE WITHOUT THE EXPRESS WRITTEN CONSENT OF FABCO INDUSTRIES, AND THAT NO RIGHT IS GRANTED TO DISCLOSE OR SO USE ANY INFORMATION CONTAINED IN SAID DOCUMENT.

UNLESS OTHERWISE SPECIFIED REMOVE ALL BURRS BREAK SHARP EDGES .002 - .020 FILLET .020 MAX DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES		TOLERANCES: DEC .00 ± .01 DEC .000 ± .005 FRACT ± 1/16 ANGLE ± 2°		APPROVAL	DATE
PROJECT DELDOT		FABCO INDUSTRIES, INC. 24 CENTRAL DRIVE FARMINGDALE, NY 11735 WWW.FABCO-INDUSTRIES.COM		DWN CHKR ENGR UPD	J.C. J.P. 5/12/2020
MATERIAL SEE NOTES		STORMSACK BMP, NOM. C.S. 18" X 34"		SCALE: NONE	REV A

<b>fabco</b> <small>industries, inc.</small>	
STORMSACK BMP, NOM. C.S. 18" X 34"	
SIZE DWG. NO. <b>B</b> BSM1834-1-000	REV <b>A</b>
SHEET 1 OF 1	

Washington  
Conservation  
District  
455 Hayward Ave N  
Oakdale, MN 55128  
(651) 330-8220  
www.mnwc.org



Revision 7/28/25 [City Review]	Project Manager Marcus Johnson City of Birchwood Village	Project Designer Lori Tella	Drawn LT	Reviewed AR
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*Lori Tella*  
Lori Tella  
Date 8.04.25  
Reg. No. 58219

Project Title Tighe-Schmitz Park Stormwater Management Project	Sheet Title Area D - Section
--	---------------------------------

Date  
7/28/25

**L4.11**  
of  
23

# Lower Shoreline Seed Mix

BWSR STATE LAKESHORE MOIST MIX [OR APPROVED EQUAL]

\*SEEDING RATE: SEE MANUFACTURE'S MIX RECOMMENDATION

34-264		Lakeshore Moist Soils Statewide Mix	<u>*modified</u>			
Code	Common Name	Scientific Name	PLS lb/ac	% by PLS lb/ac	Seeds/ft2	% by Seeds/ft2
calcan	bluejoint	<i>Calamagrostis canadensis</i>	0.04	0.20%	4.11	2.55%
elycan	nodding wild rye	<i>Elymus canadensis</i>	1.05	5.16%	2.01	1.24%
elyvir	Virginia wild rye	<i>Elymus virginicus</i>	0.32	1.57%	0.49	0.31%
glygra	tall manna grass	<i>Glyceria grandis</i>	0.08	0.39%	2.06	1.28%
glystr	fowl manna grass	<i>Glyceria striata</i>	0.09	0.44%	2.98	1.85%
panvir	switchgrass	<i>Panicum virgatum</i>	1.36	6.68%	6.99	4.34%
poopal	fowl bluegrass	<i>Poa palustris</i>	0.13	0.64%	6.21	3.85%
spapec	prairie cordgrass	<i>Spartina pectinata</i>	0.21	1.03%	0.51	0.32%
<b>Grasses Subtotal</b>			<b>3.28</b>	<b>16.12%</b>	<b>25.36</b>	<b>15.74%</b>
carhys	porcupine sedge	<i>Carex hystericina</i>	0.14	0.69%	1.54	0.96%
carsco	pointed broom sedge	<i>Carex scoparia</i>	0.1	0.49%	3.09	1.92%
carstr	tussock sedge	<i>Carex stricta</i>	0.01	0.05%	0.19	0.12%
carvul	fox sedge	<i>Carex vulpinoidea</i>	0.22	1.08%	8.08	5.02%
junnod	knotted rush	<i>Juncus nodosus</i>	0.01	0.05%	6.80	4.22%
sciatr	dark green bulrush	<i>Scirpus atrovirens</i>	0.12	0.59%	20.28	12.59%
scicyp	Woolgrass	<i>Scirpus cyperinus</i>	0.05	0.25%	31.22	19.38%
<b>Sedges &amp; Rushes Subtotal</b>			<b>0.65</b>	<b>3.19%</b>	<b>71.20</b>	<b>44.20%</b>
agafoe	blue giant hyssop	<i>Agastache foeniculum</i>	0.06	0.29%	1.98	1.23%
anecan	Canada anemone	<i>Anemone canadensis</i>	0.03	0.15%	0.09	0.05%
ascinc	marsh milkweed	<i>Asclepias incarnata</i>	0.14	0.69%	0.25	0.15%
chegla	white turtlehead	<i>Chelone glabra</i>	0.01	0.05%	0.34	0.21%
eupper	common boneset	<i>Eupatorium perfoliatum</i>	0.02	0.10%	1.18	0.73%
eutgra	grass-leaved goldenrod	<i>Euthamia graminifolia</i>	0.01	0.05%	1.29	0.80%
eutmac	spotted Joe pye weed	<i>Eutrochium maculatum</i>	0.03	0.15%	1.05	0.65%
helaut	autumn sneezeweed	<i>Helenium autumnale</i>	0.13	0.64%	6.21	3.85%
iriver	northern blue flag	<i>Iris versicolor</i>	0.1	0.49%	0.05	0.03%
lobsip	Blue lobelia	<i>Lobelia siphilitica</i>	0.03	0.15%	5.51	3.42%
mimir	blue monkey flower	<i>Mimulus ringens</i>	0.02	0.10%	16.90	10.49%
phyvir	obedient plant	<i>Physostegia virginiana</i>	0.05	0.25%	0.20	0.13%
pycvir	Virginia mountain mint	<i>Pycnanthemum virginianum</i>	0.04	0.20%	3.23	2.01%
rudhir	black-eyed susan	<i>Rudbeckia hirta</i>	0.21	1.03%	7.10	4.41%
scrian	Lance-leaved Figwort	<i>Scrophularia lanceolata</i>	0.03	0.15%	2.04	1.27%
symlan	eastern panicled aster	<i>Symphotrichum lanceolatum</i>	0.03	0.15%	1.72	1.07%
sympu	red-stemmed aster	<i>Symphotrichum puniceum</i>	0.03	0.15%	0.88	0.55%
thadas	tall meadow-rue	<i>Thalictrum dasycarpum</i>	0.07	0.34%	0.19	0.12%
verhas	blue vervain	<i>Verbena hastata</i>	0.09	0.44%	3.07	1.91%
verfas	bunched ironweed	<i>Vernonia fasciculata</i>	0.11	0.54%	0.97	0.60%
vervir	Culver's root	<i>Veronicastrum virginicum</i>	0.01	0.05%	2.94	1.82%
zizaur	golden alexanders	<i>Zizia aurea</i>	0.17	0.84%	0.69	0.43%
<b>Forbs Subtotal</b>			<b>1.42</b>	<b>6.98%</b>	<b>57.85</b>	<b>35.91%</b>
avesat	Oats	<i>Avena sativa</i>	15	73.71%	6.68	4.15%
<b>Cover Crop Subtotal</b>			<b>15.00</b>	<b>73.71%</b>	<b>6.68</b>	<b>4.15%</b>
<b>Total</b>			<b>20.35</b>	<b>100.00%</b>	<b>161.09</b>	<b>100.00%</b>

# Wet Meadow

\*SEEDING RATE: REFER TO MANUFACTURE'S MIX RECOMMENDATION

34-272		Wet Meadow South & West Mix				
Code	Common Name	Scientific Name	PLS lb/ac	% by PLS lb/ac	Seeds/ft2	% by Seeds/ft2
brocil	Fringed Brome	<i>Bromus ciliatus</i>	0.25	0.85%	1.01	0.52%
calcan	Bluejoint Grass	<i>Calamagrostis canadensis</i>	0.05	0.17%	5.14	2.66%
elyvir	Virginia Wild Rye	<i>Elymus virginicus</i>	0.86	2.91%	1.33	0.69%
glygra	American Manna Grass	<i>Glyceria grandis</i>	0.12	0.41%	3.09	1.60%
glystr	Fowl Manna Grass	<i>Glyceria striata</i>	0.09	0.30%	2.98	1.54%
leeory	Rice Cut Grass	<i>Leersia oryzoides</i>	0.20	0.68%	2.50	1.29%
poopal	Fowl Bluegrass	<i>Poa palustris</i>	0.35	1.18%	16.71	8.65%
spapec	Prairie Cord Grass	<i>Spartina pectinata</i>	0.33	1.12%	0.80	0.41%
<b>Grasses Subtotal</b>			<b>2.25</b>	<b>7.61%</b>	<b>33.55</b>	<b>17.36%</b>
carcom	Bottlebrush Sedge	<i>Carex comosa</i>	0.09	0.30%	0.99	0.51%
carhys	Porcupine Sedge	<i>Carex hystericina</i>	0.09	0.30%	0.99	0.51%
carpel	Woolly Sedge	<i>Carex pellita</i>	0.02	0.07%	0.21	0.11%
carsco	Pointed-broom Sedge	<i>Carex scoparia</i>	0.13	0.44%	4.01	2.07%
carsti	Common Fox Sedge	<i>Carex stipata</i>	0.07	0.24%	0.87	0.45%
carstr	Tussock Sedge	<i>Carex stricta</i>	0.01	0.03%	0.19	0.10%
carvul	Brown Fox Sedge	<i>Carex vulpinoidea</i>	0.16	0.54%	5.88	3.04%
jundud	Dudley's Rush	<i>Juncus dudleyi</i>	0.02	0.07%	23.51	12.16%
junten	Path Rush	<i>Juncus tenuis</i>	0.01	0.03%	3.67	1.90%
sciatr	Dark Green Bulrush	<i>Scirpus atrovirens</i>	0.17	0.58%	28.72	14.86%
scicyp	Woolgrass	<i>Scirpus cyperinus</i>	0.03	0.10%	18.73	9.69%
<b>Sedges &amp; Rushes Subtotal</b>			<b>0.80</b>	<b>2.71%</b>	<b>87.78</b>	<b>45.41%</b>
ascinc	Swamp Milkweed	<i>Asclepias incarnata</i>	0.26	0.88%	0.46	0.24%
bidcer	Nodding Bur Marigold	<i>Bidens cernua</i>	0.04	0.14%	0.31	0.16%

## SHORTGRASS PRAIRIE ALTERNATIVE SEED MIX RECOMMENDATIONS:

UPLAND SHORTGRASS PRAIRIE:

- 1) Seed Savers Exchange: Dry Grass Mix (<https://shop.seedsavers.org/dry-grass-mix>)
- 2) Prairie Restoration: Short Dry Prairie - Graminoids (<https://www.prairieresto.com/>)
- 3) Prairie Restoration: Native Bee Lawn (<https://www.prairieresto.com/>)
- 4) Prairie Restorations: PRI Native Bee Lawn (<https://www.prairieresto.com/>)

\*SEEDING RATE: REFER TO MANUFACTURE'S MIX RECOMMENDATION

## SHORELINE ALTERNATIVE SEED MIX RECOMMENDATIONS:

LOWER SHORELINE:

- 1) Seed Savers Exchange: Wet Grass Mix: (<https://shop.seedsavers.org/wet-grass-mix>)
- 2) MNL Lakeshore Mix: (<https://mnlcorp.com/product/mnl-lakeshorewaters-edge-mix/>)
- 3) Prairie Restorations: Shoreline Wetland Grass Mix (<https://www.prairieresto.com/>)

\*SEEDING RATE: SEE MANUFACTURE'S MIX RECOMMENDATION

Washington  
Conservation  
District  
455 Hayward Ave N  
Oakdale, MN 55128  
(651) 330-8220  
www.mnwcd.org



Plan created by:

Revision  
7/28/25 (City Review)

Project Manager  
Marcus Johnson  
City of Birchwood  
Village

Project Designer  
Lon Tella

Drawn  
LT

Reviewed  
AR

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Date 8.04.25  
Reg. No. 58219

Lon Tella

Project Title  
Tighe-Schmitz Park Stormwater  
Management Project

Sheet Title  
Seed Mixes

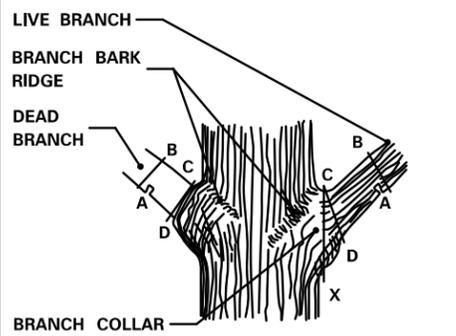
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Date  
7/28/25

**L4.12**

of

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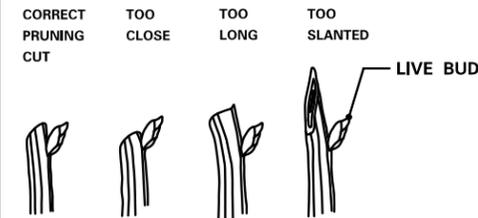
**STEPS TO PRUNING WITH PRUNING SAW:**

- CUT PART WAY THROUGH THE BRANCH AT POINT A.
- CUT COMPLETELY THROUGH BRANCH FROM POINT B TO A.
- AT BRANCH COLLAR CUT FROM POINT C TO D.

INCORRECT CUT FROM POINT C TO X (TOO CLOSE) WILL RESULT IN DISCONTINUOUS CALLUS FORMATION AFTER ONE SEASON OF GROWTH.

CORRECT CUT FROM POINT C TO D (LEAVING BRANCH COLLAR BUT NOT THE STUB FROM POINT B TO A) WILL RESULT IN CONTINUOUS DOUGHNUT SHAPED CALLUS FORMATION AFTER ONE SEASON OF GROWTH.

**BRANCHES PRUNED AT TRUNK (SHIGO METHOD)**



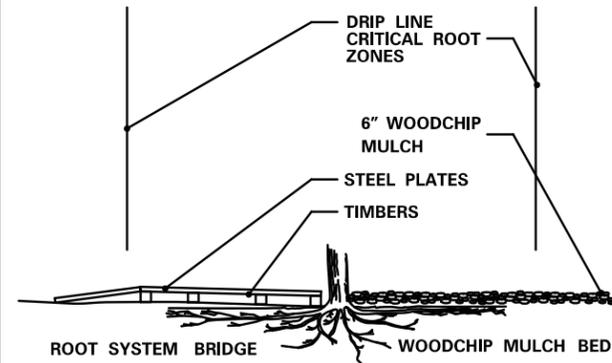
**PRUNING NOTES:**

- PRUNE USING CLEAN AND SHARP SCISSOR-TYPE PRUNER OR PRUNING SAW.
- THE BEST TIME TO PRUNE IS LATE DORMANT SEASON OR EARLY SPRING.
- AVOID PRUNING OAKS IN APRIL, MAY, JUNE OR JULY.
- IF PRUNING IS NECESSARY OR IF WOUNDS OCCUR TO OAK TREES IN APRIL, MAY, JUNE OR JULY, IMMEDIATELY PAINT CUT SURFACE OR WOUND WITH LATEX PAINT OR SHELLAC.

**BRANCHES PRUNED TO LIVE BUD**

**PRUNING**

(MnDOT 2571.3E.1 and 2571.3K.2.a(9))



IF CONSTRUCTION VEHICLES MUST PASS OVER ROOT ZONES, THE CONTRACTOR MUST EITHER:

- CONSTRUCT ROOT SYSTEM BRIDGES WITH STEEL PLATE SUPPORTED ON WOOD TIMBERS PLACED RADIALLY TO THE TREE TRUNK.
- OR
- PLACE A 6 INCH LAYER OF WOODCHIP MULCH OVER A TYPE III GEOTEXTILE (MnDOT 3733).

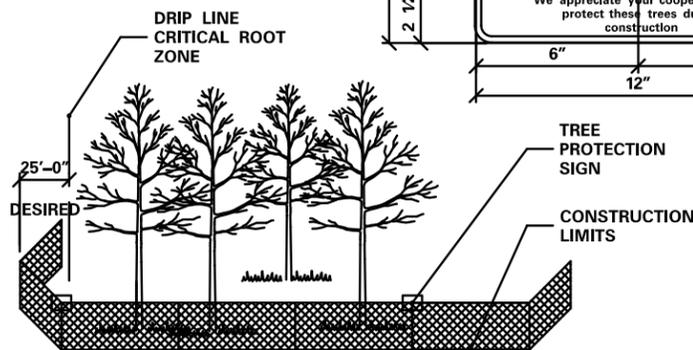
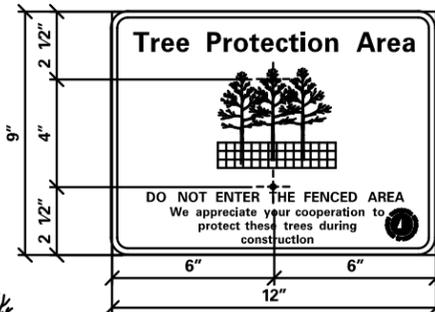
**OTHER VEGETATION PROTECTION MEASURES**

(MnDOT 2572.3A.12)

**LEAD EXPERT OFFICE**  
LYNN CLARKOWSKI  
CHIEF ENVIRONMENTAL OFFICER  
OFFICE OF ENVIRONMENTAL STEWARDSHIP



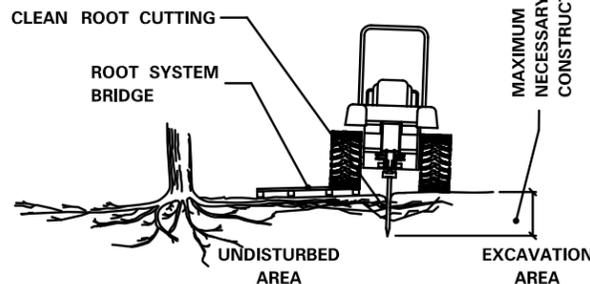
- FABRICATE 12" X 9" X 3/8" SIGN WITH 0.75" RADIUS CORNERS.
- SIGN SHALL BE WHITE WITH BLACK LETTERING.
- ATTACH SIGN TO POST USING 1" LENGTH WOOD SCREWS.



- FURNISH AND INSTALL TEMPORARY FENCE AT THE TREE'S DRIPLINE OR CONSTRUCTION LIMITS AS SPECIFIED, PRIOR TO ANY CONSTRUCTION.
- WHEN POSSIBLE PLACE FENCE 25 FEET BEYOND THE DRIPLINE.
- PLACE TREE PROTECTION SIGNS ALONG FENCE AT 50' INTERVALS.

**TEMPORARY FENCE**

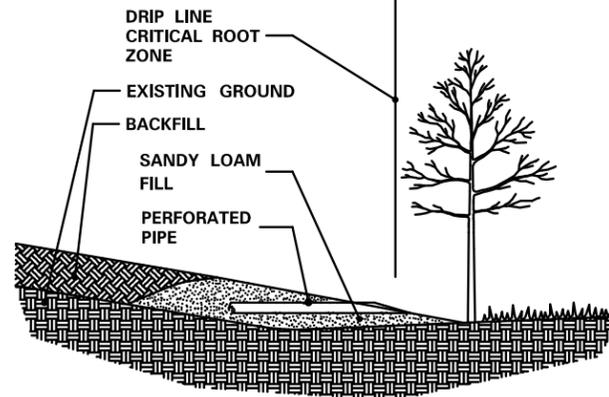
(MnDOT 2572.3A.1)



- WHEN DESIGNATED IN THE PLAN OR DIRECTED BY THE ENGINEER, PRIOR TO EXCAVATION, ALL TREE ROOTS WILL BE CLEANLY CUT BY A VIBRATORY PLOW OR OTHER APPROVED ROOT CUTTER.
- THE TREE ROOTS WILL BE CUT CLEANLY TO THE MINIMUM DEPTH NECESSARY FOR CONSTRUCTION.
- IMMEDIATELY, AND CLEANLY CUT DAMAGED AND EXPOSED ROOTS.
- ROOT ENDS EXPOSED BY EXCAVATION ACTIVITIES SHALL BE IMMEDIATELY COVERED WITH A 6" LAYER OF ADJACENT SOIL.
- EXPOSED CUT OAK ROOTS SHALL BE IMMEDIATELY (WITHIN 5 MINUTES) TREATED WITH A WOUND DRESSING MATERIAL CONSISTING OF LATEX PAINT OR SHELLAC.

**CLEAN ROOT CUTTING**

(MnDOT 2572.3A.2)

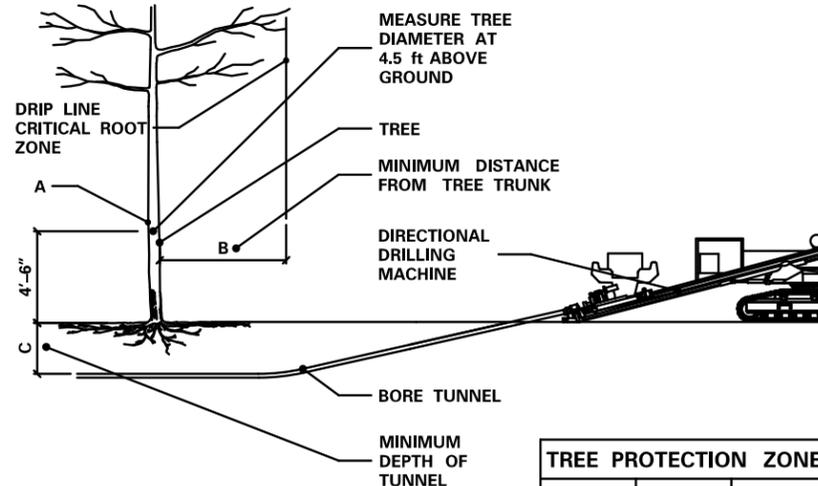


- ANY FILL REQUIRED WITHIN THE DRIPLINE OF TREES, IS UNCOMPACTED ROOTING TOPSOIL BORROW.
- EXCESSIVE FILL MAY REQUIRE PLACING PERFORATED PIPE WITH AT LEAST ONE DAYLIGHTED END OPENING AS AN AERATION SYSTEM.

**ROOTING TOPSOIL BORROW**

**UTILITY CONSTRUCTION**

(MnDOT 2572.3A.5)



NOTE:

- (A) IS THE DIAMETER OF TREES MEASURED 4'-6" FEET ABOVE THE GROUND AND IS TERMED THE "DIAMETER AT BREAST HEIGHT," (DBH).
- USING A TREE DIAMETER TAPE, WRAP THE TAPE AROUND THE GIRTH OF THE TREE, AT THE DBH, BEING CAREFUL NOT TO TWIST THE TAPE.

TREE PROTECTION ZONE		
A	B	C
< 2"	2'	2'
2-4"	4'	2.5'
> 4-9"	6'	2.5'
> 9-14"	10'	3'
> 14-19"	12'	3.25'
> 19"	15'	4'

**SLOPE ROUNDING**

**SLOPE ROUNDING**

SIGNIFICANT TREES NEAR THE PROPOSED CONSTRUCTION LIMITS WILL BE IDENTIFIED IN THE PLAN OR BY THE ENGINEER AND WILL BE PRESERVED BY THE CONTRACTOR.

- PLACE THE TEMPORARY FENCE.
- REDUCE SLOPE ROUNDING WHERE ROOT ZONES ARE DISTURBED BY NORMAL SLOPE ROUNDING.
- VARY BACKSLOPE STEEPNESS TO AVOID TREE LOSS OR UNNECESSARY ROOT DAMAGE.

PROTECTION AND RESTORATION OF VEGETATION

APPROVED: 12-11-2015  
REVISED:

THOMAS STYRBICKI  
STATE DESIGN ENGINEER

STANDARD PLAN  
5-297.302

1 OF 1

STANDARD PLAN

STATE PROJ. NO.

SHEET NO.

TRUNK HWY.

TOTAL SHEETS

Washington Conservation District  
455 Hayward Ave N  
Oakdale, MN 55128  
(651) 330-8220  
www.mnwcdd.org

plan created by: [Signature]

Revision	7/28/25 [City Review]
Project Manager	Marcus Johnson City of Birchwood Village
Project Designer	Lori Tella
Drawn	LT
Reviewed	AR

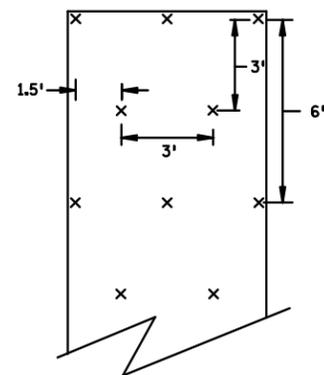
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[Signature]  
Lori Tella

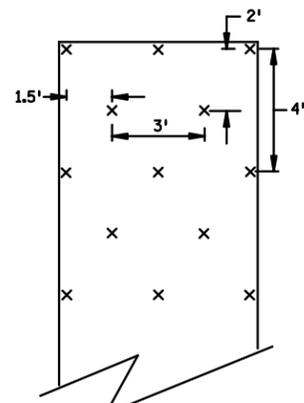
Date: 8.04.25  
Reg. No. 58219

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Sheet Title: Tree Protection  
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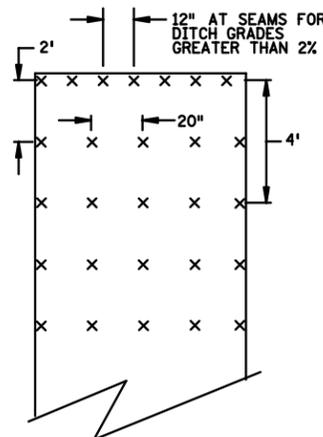
Date: 7/28/25  
L5.0  
of  
23



SLOPES FLATTER THAN 1:2  
120 STAPLES PER 100 SQ YD

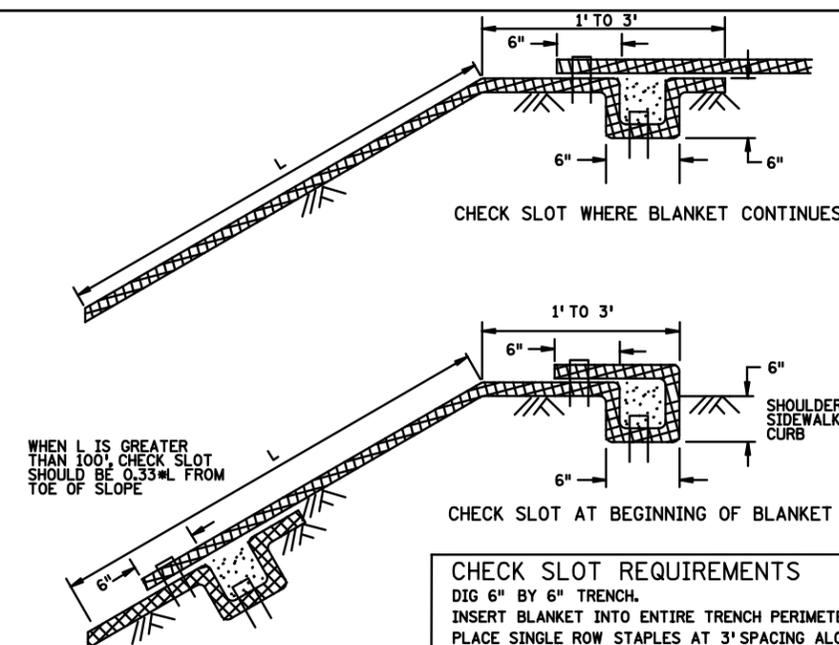


SLOPES 1:2 TO 1:1  
170 STAPLES PER 100 SQ YD

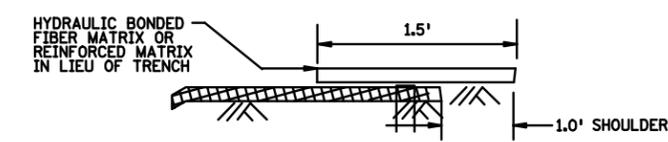


CHANNEL AND DITCH APPLICATIONS  
350 STAPLES PER 100 SQ YD

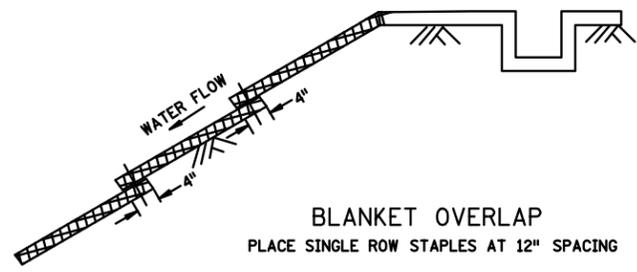
BLANKET STAPLE PATTERN



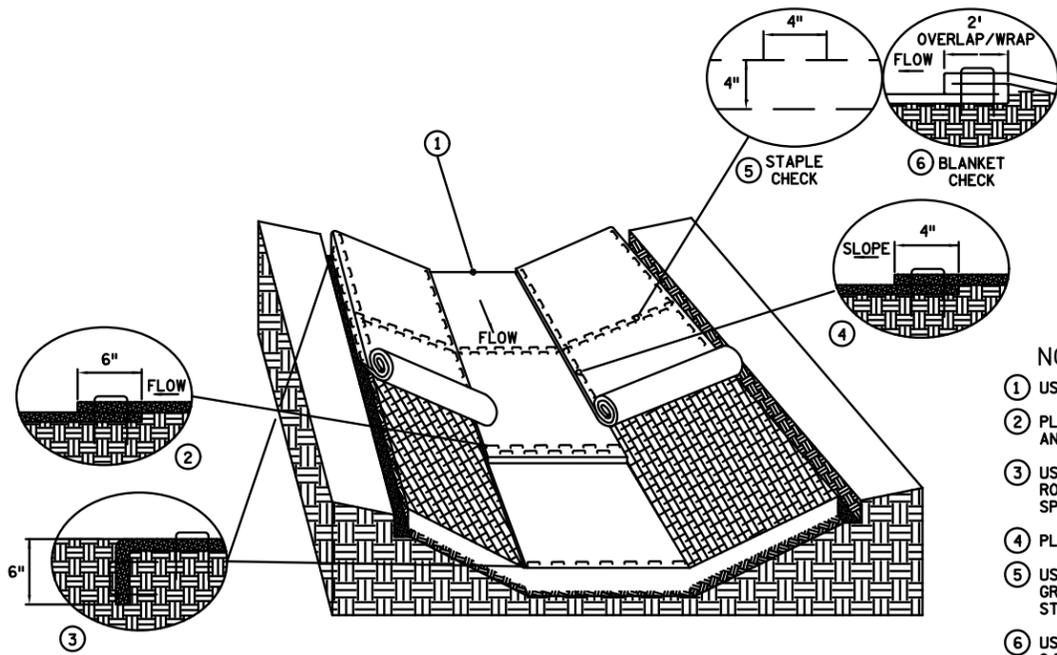
**CHECK SLOT REQUIREMENTS**  
DIG 6" BY 6" TRENCH.  
INSERT BLANKET INTO ENTIRE TRENCH PERIMETER.  
PLACE SINGLE ROW STAPLES AT 3' SPACING ALONG THE BOTTOM OF THE TRENCH.  
BACKFILL TRENCH WITH SOIL AND TAMP.  
PLACE SINGLE ROW STAPLES AT 3' SPACING ON OVERLAP.



CHECK SLOT ALTERNATIVE  
PLACE SINGLE ROW STAPLES AT 12" SPACING  
CHECK SLOT DETAILS



**GENERAL BLANKET INSTALLATION REQUIREMENTS**  
REPP = ROLLED EROSION PREVENTION PRODUCT.  
PREPARE SOIL AS PER SPECIFICATION 2574.  
LAY PARALLEL OR PERPENDICULAR TO THE DIRECTION OF WATER FLOW.  
OVERLAP ADJACENT STRIP EDGES A MINIMUM OF 4".  
OVERLAP BLANKET 6" (MINIMUM) AT EACH END. OVERLAP BOTTOM END OF UPPER BLANKET OVER TOP END OF LOWER BLANKET. STAPLE ALONG OVERLAP EVERY 1.5'.  
THE UPPERMOST BLANKET OF ALL SLOPE APPLICATIONS MUST START IN A CHECK SLOT. IF SLOPE LENGTH (L) IS 100' OR GREATER, INSERT BLANKET INTO A CHECK SLOT 1/2 FROM THE BOTTOM OF THE SLOPE.



DITCH BLANKET STAPLE DETAIL

- NOTES:**
- USE CHECK SLOT DETAIL (NO ALTERNATES).
  - PLACE DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER.
  - USE 6" X 6" TRENCH TO PLACE BLANKET. PLACE SINGLE ROW OF STAPLES ON TOP AND TRENCH SIDES AT 12" SPACING. BACKFILL TRENCH WITH SOIL AND TAMP.
  - PLACE SINGLE ROW OF STAPLES AT 12" SPACING.
  - USE STAPLE CHECK FOR CHANNEL SLOPES LESS THAN 2.5% GRADE AT 100' INTERVALS. PLACE DOUBLE ROW OF STAPLES STAGGERED 4" APART AND AT 4" SPACING.
  - USE BLANKET CHECKS FOR THE FOLLOWING SLOPES:  
2.5%-3% 100' INTERVALS  
3%-5% 50' INTERVALS  
5%-7% 25' INTERVALS
  - CRITICAL POINTS SHALL BE SECURED WITH PROPER STAPLE PATTERNS.

LEAD EXPERT OFFICE  
MARNI KARNOWSKI  
CHIEF ENVIRONMENTAL OFFICER  
OFFICE OF ENVIRONMENTAL STEWARDSHIP

PERMANENT EROSION CONTROL  
REPP (BLANKET) STAPLE PATTERN FOR SLOPES

APPROVED: 01-08-2020  
REVISED:

THOMAS STYRBICKI  
STATE DESIGN ENGINEER

STANDARD PLAN  
5-297.404

3 OF 3



STANDARD PLAN

STATE PROJ. NO.  
TRUNK HWY.

SHEET NO.  
TOTAL SHEETS

Washington Conservation District  
455 Hayward Ave N  
Oakdale, MN 55128  
(651) 330-8220  
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Revision	7/28/25 [City Review]
Project Manager	Marcus Johnson City of Birchwood Village
Project Designer	Lori Tella
Drawn	LT
Reviewed	AR

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

Lori Tella  
Date: 8.04.25  
Reg. No. 58219

Project Title  
Tighe-Schmitz Park Stormwater Management Project  
Sheet Title  
Erosion Control  
CAD File Name: Plan-Tighe-Schmitz\_20%\_8.04.25.rvt

Date  
7/28/25

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**PRE-CONSTRUCTION PROJECT NOTES**

**UTILITIES** - It shall be contractor's responsibility to locate any existing utilities located within the project areas. Contractor is responsible for repairs of all damage that may occur to utilities during construction.

**SITE ACCESS** - At a minimum, activities within the buffer should be restricted through the use of construction fencing, flagging, or signage.

**PROJECT BOUNDARIES** - The Ordinary High Water Line (OHWL) must be staked off and marked to keep all construction traffic, equipment, and material stockpiles out of the proposed planting area. Construction activities, including herbicide application and planting below the OHWL must be approved by the DNR.

**TIMING AND WEATHER** - Installation with dry soil conditions is critical to prevent smearing and compaction. Schedule work for periods of dry weather. Do not work if soil conditions are wet.

**TREE PROTECTION AND REPLACEMENT** - Protection and care for existing trees, and replacement of damaged existing trees shall be per MNDOT Spec 2572. Perform clearing and grubbing operations in a manner that will not damage or jeopardize the surrounding plant life and property. Trees damaged during construction shall be replaced at a ratio of 1:1. Verify with appropriate agency prior to removal.

**EROSION CONTROL REQUIREMENTS** - Contractor is responsible for all on-site implementation of erosion and sediment controls in compliance with the requirements of the State of Minnesota NPDES/SDS Construction Stormwater General Permit. See the Minnesota Stormwater Manual for control methods.

**PRE- CONSTRUCTION STABILIZATION** -Disturbed areas upgradient from the buffer must be managed via appropriate perimeter controls, such as silt fencing, stormwater diversion berms/ditches, sediment traps, fiber logs, or other BMPs that prevent sediment-laden runoff from entering or leaving the buffer. Where areas within the buffer are actively eroding they should be stabilized via carefully targeted management practices prior to construction.

**CONSTRUCTION NOTES**

**TEMPORARY STABILIZATION** - Stabilization of all exposed soils must be initiated immediately whenever construction has permanently or temporarily ceased for 7 calendar days, including stockpiles. Remove all erosion control measures after the work has been accepted.

**EROSION CONTROL BLANKET** - Erosion Control Materials must be bio-degradable natural fiber only. Blankets should be installed on sloped seeded areas. (MnDot Category 25, 30 or approved equal). No photo-degradable products, plastic netting or mesh are allowed. Installation shall be per MnDOT Specification 2575.3.

**GRADING** - Contractor responsible for grading and sloping finished grades to provide smooth and continuous slopes. Contact WCD if field adjustments are required.

**SITE CLEANUP** - Upon completion of the work, the contractor shall remove all excess material, debris, and equipment. Repair all damage to other work resulting from the Project.

**SITE RESTORATION (vegetation)** - Contractor shall repair damaged turf and open field areas within the Project area and any Staging areas. Repair of these areas shall be prepared according to MNDOT Spec 2574. Provide borrowed soil MNDOT Spec 3877 or purchased compost MNDOT Spec 3890. Turf areas shall be seeded with MNDOT seed mixture 25-131 or approved equal.

**SPECIAL PROJECT AREAS**

**SEATING AREAS** - Install trap rock or approved equal. Coordinate with landowner on seating areas and pathways.

**KIOSK** - Install trap rock or approved equal. Coordinate with landowner on kiosks steps and pathways

**TRAIL AND STEPS** - Improve existing trail by minor leveling and clearing. Create new stretch of trail through mulched area. Work with city on placement of steps prior to finalizing trail layout. Steps will be by the city.

**IRRIGATION** - City will provide irrigation. Coordinate installation.

**ESTABLISHMENT / MAINTENANCE**

**ESTABLISHMENT PERIOD** - The establishment period shall be the period of time immediately following completion of installation through the first growing season. If planted in the spring, the first growing season shall refer to the end of installation, through the end of Autumn. If the area is planted in the fall, the growing season will be through the next year's Autumn.

**ESTABLISHMENT RESPONSIBILITY** - Contractor is responsible for the following tasks through the establishment period: weeding and plant replacement for the Project to ensure healthy, growing plants. Native seeded areas (excluding hillside buffer) will require seasonal mowing at least twice during the growing season to prevent weeds from going to seed. The frequency of visits shall be a minimum of eight occurrences annually to ensure proper weeding and watering. Additional tasks for the basin area include removing sediment and trash, ensuring proper functioning of berms and pipes, and repairing eroded areas. The hillside, basin and shoreline will require inspection to ensure erosion control is functioning correctly after major storms. Immediately address muddy runoff flows into or through the Project by adding regular silt fencing, rock berms, or fiber logs.

**WATERING** - Contractor is responsible for the following minimum watering standards immediately following the completion of planting throughout the establishment period:  
 1) Apply water as needed in combination with rainfall to achieve a minimum rate of 1 inch per week for plants, 2 inches per week for new trees. 2) During extreme heat or drought periods, increase watering to maintain moist soil to a depth of 4 inches. 3) Maintain adequate soil moisture in the upper 12-inches of soil for a minimum of 4 weeks after planting.

**WARRANTY** - Contractor shall warranty plants for a minimum of 1 year. Contractor shall ensure a minimum of 70% coverage of planting area within one year. Plants that are found to be dead, or not achieving normal growth shall be replaced at the contractor's expense. A close out inspection at the end of the establishment period is required.

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plan created by:

Revision	7/28/25 [City Review]
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Project Manager	Marcus Johnson City of Birchwood Village	Project Designer	Lori Tella	Drawn	LT	Reviewed	AR
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*Lori Tella*  
 Lori Tella

Date 8.04.25  
 Reg. No. 58219

Project Title	Tighe-Schmitz Park Stormwater Management Project
Sheet Title	Construction Notes
CAO File Name	Plan-Tighe-Schmitz_20%_8.04.25.vwx

Date  
 7/28/25

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**SITE PREP, SEEDING AND PLANTING**

**SITE PREPARATION** - The hillside restoration portion of the project includes buckthorn and honeysuckle removal. Existing trees, native plants and downed wood should remain unless removal is needed for access. Herbicides that are used along lakeshores must be labeled for use near water, including glyphosate products.

**SEED BED PREPARATION** - must be completed in compliance with MnDOT 2574. Contractor must prepare the soil surface to provide a smooth, moist, and evenly textured foundation before sowing seed and/or placing plants. Loosen the soil to a depth of 3" to ensure good seed to soil contact. Use caution and avoid operating equipment on wet soils or slopes greater than 2:1.

**PLANT BED PREPARATION** - Must be completed in compliance with MnDOT 2574. Contractor must scarify existing soil to break compacted areas and allow for effective infiltration of water. The Contractor must prepare the soil surface to provide a smooth, moist, and evenly textured foundation before planting.

**SEEDING** - The hillside stabilization and low-mow mix can be seeded using a hydro-seeder or broadcast seeded by hand. If hydroseeding, mix the seed with water and hydromulch, onto the prepared seedbed in a single pass. The seeding rate using this method should be double the rate of the seed manufacture's recommendations. Seeding dates are typically October until snowfall, or in the spring before June 30th.

**PLANT INSTALLATION** - Each specimen must have root mass gently pulled apart prior to placement in the planting bed. All plant material must be completely buried in growing media to the base of the plant as it sits in the nursery container. Roots of each plant shall be completely surrounded by soil, not mulch.

**SOIL AMENDMENTS** - Soil amendments such as biochar and MnDot Grade 2 compost or topsoil may be applied in upland areas. Do not apply fertilizer with native seed mixes or plantings.

**MULCH** - Straw mulch must be certified weed-free. Straw mulch may be used in seeded areas if erosion is not a concern. Install a 2-3 inch layer of double shredded bark mulch for planted landscape areas.

**ESTABLISHMENT AND EROSION CONTROL** - Stabilize seeded areas with an erosion control blanket or certified weed free straw within 24 hours of seeding. MnDOT Category 25 Erosion Control Blankets shall be used on areas exceeding 4H:1V slope.

**HERBIVORE PROTECTION** - Tree guards and protection fencing are recommended for new trees and plantings.

**TREES AND SHRUBS**

**TREE & SHRUB PLANTING** - Must be completed in compliance with MnDOT 2575. Contractor must remove soil sufficient for the placement of tree and shrub material to the base of the plant as it sits in the nursery container. Sub-grade at the base of each tree and shrub shall be scarified to a depth of one (1) foot prior to proper placement of plant. The area around the base of each tree and shrub shall be removed to a width of twice (2x) the existing radius of root mass for each nursery specimen. Root mass of each specimen must be gently pulled apart prior to placement. Roots of each plant should be surrounded by soil, not mulch. Area around the base of each tree and shrub shall be backfilled with native soils to meet grade.

**TURF NOTES**

**RESTORATION** - Repair turf areas outside of the planting areas that are disturbed due to construction. Turf along paved surfaces shall be graded to allow for 1.5" below the surface of the pavement.

**WATER** - Irrigate turf regularly for a minimum of 30 days to ensure establishment of permanent vegetation.

**LOW MOW TURF**

**SEED BED PREPARATION** - must be completed in compliance with MnDOT 2574. Maintain a minimum 6' wide border of low-mow turf around the edges of the project to allow for mowing equipment.

**SEEDING** - Site Prep and Broadcast Seeding: The best time to plant No Mow Lawn Seed Mix is between August 20 and October 20. Fall seeding is strongly recommended. Remove existing grass and prepare the bed for seeding. Seeding requires a tilled seed bed free of rocks or clumps. Broadcast the seed and cover with one eighth inch of soil. Press the seed into the soil. Mulch the area with a light covering of weed-free straw mulch or erosion control blanket.

**LOW MOW LAWN MAINTENANCE** - Once mature let the lawn grow. Do not mow closer than 3.5 inches to avoid weakening the turf.

**EDGING** - 4" Aluminum or steel edging shall be staked every 30".

**IRRIGATION NOTES**

**IRRIGATION** - An irrigation system is not installed at the park. Water is available onsite and can be provided by the city. Coordinate watering needs and timeline in pre-construction meetings. See watering requirements for minimum standards.

**WCD BIORETENTION DESIGN AND INSTALLATION STANDARDS**

**INFILTRATION AREAS** Install erosion control devices to prevent sediment from entering or leaving the site during construction. Use light tracked equipment to minimize tracking and compacting over the infiltration areas. Upland drainage areas shall remain diverted from infiltration basin area until the infiltration basin has been fully stabilized.

**SUBSOIL PREPARATION** - Decomact subsoil in all infiltration areas. Use a backhoe ripper attachment or other approved method to reach a depth of at least 18 inches below subgrade. Avoid compacting or smearing of soils. Rip underlying soils to remove compaction.

**SUBSOIL TESTING** - Subsoil infiltration testing is required prior to the placement of any infiltration media. After the subsoil is decomacted, test the infiltration area to verify the infiltration rate is between 2" -8" per hour, and that the infiltration area will drain dry within 48 hours. This can be accomplished by an infiltration test, a performing double ring infiltrometer tests (ASTM d3385) in the bottom of the basin, or by filling the infiltration basin and timing how long it takes to drain from maximum water depth to dry bottom. If this requirement cannot be met, contact the owner's representative before proceeding.

**UNDERDRAIN** Underdrains are required if the infiltration rate is not 2" per hour. Pipes should have a minimum of 3 inch depth of washed #57 stone above and on each side of the pipe (stone is not required below the pipe). And a 2 inch layer of choking stone (3/4" to 1/2") on top of the crushed stone.

**SOIL REPLACEMENT MEDIA** - The replacement soil media shall be a well-blended mixture of 60% ASTM C-33 coarse washed sand (MNDOT 3126) and 30% topsoil and 10% organic materials such as compost or peat from Plaisted's (or approved equal). If it is necessary to work in the infiltration area, only low ground pressure tracked equipment should be allowed to complete the work. Leveling and final grading within the cell must be completed by hand.

**PIPE CONNECTIONS** - Cleanout assemblies and solid pipe connections shall be Sch. 40 PVC, SDR 35, HDPE pipe or equal. The minimum pipe diameter is 4 inches. Perforations should be 3/8 inches. Use solid sections of non-perforated pvc piping and watertight joints wherever the underdrain system passes below berms, down steep slopes, makes a connection to a drainage structure, or daylights on grade. Install underdrains with a minimum slope of 0.5 percent.

**CLEANOUTS AND GATE VALVE** -Include 2 observation/cleanouts for underdrain, one at the upstream end and one at the downstream end. Cleanouts should be at least 4 inches diameter vertical non-perforated schedule 40 pvc pipe, and extend to the surface. Cap cleanouts with a watertight removable cap. Include accessible knife gate valve on its outlet to allow the option of operating the system as either an infiltration system, filtration system, or both.

**BERMS** - All basin edges at least 3" higher than overflow bypass/basin full elevation. All side slopes to bottom of garden shall be 3H:1V or shallower. Construct topsoil berms using topsoil salvaged from the project. Immediately following formation, stabilize the berm with mulch.

Washington Conservation District  
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Plan created by:

Project Manager	Revision
Marcus Johnson City of Birchwood Village	7/28/25 [City Review]
Project Designer	
Lori Tella	
Drawn	Reviewed
LT	AR

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*Lori Tella*  
Lori Tella

Date 8.04.25  
Reg. No. 58219

Project Title  
Tighe-Schmitz Park Stormwater Management Project

Sheet Title  
Restoration Notes

CAO File Name: Plan-Tighe-Schmitz\_20%\_8.04.25.rvt

Date  
7/28/25

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Project Title

Tighe-Schmitz Park Stormwater Management Project

Sheet Title

Character Images

CAD File Name: Plan-Tighe-Schmitz\_20%\_8.04.25.rvt

Date  
7/28/25

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*Lori Tella*  
Lori Tella

Date 8.04.25

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Revision  
7/28/25 [City Review]

Project Manager  
Marcus Johnson,  
City of Birchwood  
Village.

Project Designer  
Lori Tella

Drawn LT

Reviewed AR

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7/10/2025

RE: Little Library Donation from Debbie Harrod Request

Dear Parks and Natural Resources Committee

Debbie Harrod, a Birchwood resident wishes to donate a “Little Library” to Birchwood Village. It was the property of Debbie’s mother who was a librarian. The Harrods are hoping you would consider placing it at Tighe Schmitz Park or Kay Beach. This location is close to the Harrods’ home. They are committed to installing it and keeping it stocked.

Please consider this donation by Debbie Harrod.

Therese Bellinger  
Deputy Clerk