

City of Ramsey
Agenda
Environmental Policy Board (EPB)

Monday, March 17, 2025

6:30 pm

Council Chambers, 7550 Sunwood Drive NW

Remote Attendance available at www.cityoframsey.com/meetings.
Those joining remotely and requesting to speak are asked to use a webcam when speaking.

1. Call to Order

2. Citizen Input

3. Approve Agenda

4. Approve Minutes

1. Approve Meeting Minutes Dated February 10, 2025

5. Policy Board Business

1. Appoint Chair and Vice Chairperson
2. Consider the Natural Resources Aspects of a Site Plan for a Parking Lot Expansion at 7900 Riverdale Drive (Project No. 25-102); Case of Pleasureland RV
3. Consider the Natural Resources Aspects of a Ground-Mounted Solar Energy System Proposed at the Closed Landfill (Project No. 25-100)

6. Board/Staff Input

1. Arbor Month Planting Activity

7. Adjournment

Environmental Policy Board (EPB)

Meeting Date: 03/17/2025

Primary Strategic Plan Initiative:

Information

Title:

Approve Meeting Minutes Dated February 10, 2025

Purpose/Background:

The purpose of this case is to approve the meeting minutes from the February 10, 2025 Environmental Policy Board meeting.

Recommendation:

Staff recommends approving the meeting minutes dated February 10, 2025.

Outcome/Action:

Motion to adopt the meeting minutes dated February 10, 2025.

Attachments

Meeting Minutes Dated February 10, 2025

Form Review

Inbox

Brian Hagen

Form Started By: Chris Anderson

Final Approval Date: 03/06/2025

Reviewed By

Brian Hagen

Date

03/06/2025 09:34 AM

Started On: 02/27/2025 02:07 PM

**ENVIRONMENTAL POLICY BOARD
CITY OF RAMSEY
ANOKA COUNTY
STATE OF MINNESOTA**

On Monday, February 10, 2025, the Environmental Policy Board (EPB) met in the Council Chambers at the Ramsey Municipal Center, 7550 Sunwood Drive N.W., Ramsey, Minnesota.

Members Present: Chairperson Melissa Fetterley
 Board Member Reid Bernard
 Board Member Paula Houts
 Board Member Hassan Salami

Members Absent: Board Member Nick Burgess
 Board Member Thomas Hagerty
 Board Member Laura Moore

Also Present: Senior Planner Chris Anderson
 City Council Liaison Eric Peters

1. CALL TO ORDER

Chairperson Fetterley called the meeting to order at 6:30 p.m.

2. CITIZEN INPUT

None.

3. APPROVE AGENDA

Motion by Board Member Bernard and seconded by Board Member Salami to approve the agenda as submitted.

Motion carried. Voting Yes: Chairperson Fetterley, Board Member Bernard, Salami, and Houts. Voting No: None. Absent: Board Member Burgess, Hagerty, and Moore.

4. APPROVE MINUTES

4.01: Approve Meeting Minutes Dated January 13, 2025

Motion by Board Member Bernard and seconded by Board Member Salami to approve the regular meeting minutes dated January 13, 2025.

Motion carried. Voting Yes: Chairperson Fetterley, Board Member Bernard, Salami, and Houts. Voting No: None. Absent: Board Member Burgess, Hagerty, and Moore.

Chairperson Fetterley welcomed the new Council Liaison, Councilmember Eric Peters.

Councilmember Peters introduced himself.

5. POLICY BOARD BUSINESS

5.01: Curbside Recycling Contract Status

Senior Planner Anderson presented the staff report. He stated the City of Ramsey is currently in the fifth and final year of a five-year residential curbside recycling contract with ACE Solid Waste. The current contract runs through December 31, 2025. The purpose of this case is to initiate discussion on policy direction in advance of the expiration of the current recycling contract. He reviewed options the Board could consider and stated that staff has been satisfied with the program as-is.

Board Member Bernard asked how residents are currently billed for recycling.

Senior Planner Anderson replied that is included in the City utility billing. He explained residents are charged \$3.98 per month for recycling, noting that the utility billing is done quarterly, therefore it is shown as \$11.94 quarterly for recycling services per household. He stated that ACE bills the City and the City does not charge any additional fees to residents, simply passing on the charges.

Chairperson Fetterley asked if ACE has always been the recycling provider and whether staff are satisfied with the hauler.

Senior Planner Anderson confirmed that ACE has always been the recycling hauler and staff is satisfied with the services provided. He stated that staff receive some complaints, but they are not frequent. He noted that some of the calls are related to recycling not being picked up and ACE now has cameras on their trucks. He noted that in a recent follow up it was determined that the customer had a large, black plastic bag on top of the recycling, which is not recyclable, and therefore the container was not picked up.

Board Member Salami asked if it could be more cost-efficient for the City to provide the recycling services directly with its own trucks.

Senior Planner Anderson replied that the City has never contemplated that and believed that would have significant costs for staffing, purchasing vehicles, etc.

Board Member Houts asked the last time the City went out for an RFP for recycling.

Senior Planner Anderson replied that in the past 20 years, Staff has always been directed to negotiate directly with ACE for either a contract extension or a new curbside recycling service.

Councilmember Peters asked the amount of staff time that is spent handling recycling issues.

Senior Planner Anderson replied that he does track that time because his time spent on recycling is funded in another manner. He estimated 10 to 15 percent of his time is spent on recycling but that is not always resident calls. He explained the educational items that he completes related to recycling. He stated that administration and customer calls are a relatively small portion of his recycling time.

Councilmember Peters asked where ACE sorts these loads.

Senior Planner Anderson replied that in the last five years, ACE added a transfer station to their Ramsey location and explained that process.

Councilmember Peters asked how much of the material collected for recycling is rejected.

Senior Planner Anderson replied that the weight collected that is shown in the case is the presort weight, which is the required reporting. He stated that inevitably there are contaminated items.

Councilmember Peters stated that his parents recently began participating in the organics recycling program in Maple Grove and have found that freezing temps often cause the organics to freeze to the container. He asked for information on what is done in neighboring communities for recycling.

Senior Planner Anderson provided information on the recycling collection of neighboring communities.

Councilmember Peters commented that he would not want trucks from seven haulers coming down the road, along with seven additional trucks for recycling, and would prefer to stay with organized recycling.

Chairperson Fetterley agreed that she would prefer to remain with organized recycling. She agreed that ACE has done a good job, and she does like supporting a local Ramsey company. She asked if the City could receive quotes from other haulers as that would provide more information and provide for competition.

Senior Planner Anderson stated that if direction is given to negotiate with the current hauler, he would not solicit other quotes. He stated that if additional quotes were desired, the City would need to follow an RFP process.

Board Member Houts commented that she is an ACE customer for trash and has no issues, but believes that after 20 years an RFP should be done to ensure the City is continuing to receive the best pricing.

Board Member Salami commented on the increases that he has seen as an ACE trash customer. He stated that if a reasonable price continues to be given, he would not object.

Board Member Bernard commented that the service has been great, and he has no issues continuing as is.

Chairperson Fetterley commented that she believed that organized recycling collection is in the best interest of the community and confirmed the consensus of the Board.

Senior Planner Anderson stated that if there is direction to negotiate a new contract and that does not seem to go well, the City can still decide to issue an RFP.

Chairperson Fetterley stated that she would prefer to negotiate with ACE and see how that goes.

Senior Planner Anderson commented that it seems there is consensus in support of continuing to provide a contracted service for recycling. He explained that typically there is a lesser monthly charge for contracted service to the whole city, compared to open market hauling.

Motion by Board Member Salami and seconded by Board Member Houts to recommend continuing with organized recycling collection and direct staff to begin negotiations with the current hauler.

Motion carried. Voting Yes: Chairperson Fetterley, Board Member Salami, Houts, and Bernard. Voting No: None. Absent: Board Member Burgess, Hagerty, and Moore.

Board Member Houts asked if the City has considered organized trash hauling, recognizing the difficulty recently experienced in Anoka when trying to institute that system.

Senior Planner Anderson replied that there has never been direction to look at organized trash hauling in Ramsey. He stated that if the Board wants to make that recommendation, that could be forwarded to the City Council but noted that has been extremely contentious in some communities.

Chairperson Fetterley stated that she has no interest in providing that recommendation as people enjoy having a choice in their trash provider because of the price gouging that occurs.

6. BOARD / STAFF INPUT

Senior Planner Anderson stated that the vendor for the 2025 recycling events has been selected, noting that it is the same vendor they worked with last year. He stated that information on the spring recycling event will be advertised in the next *Ramsey Resident*.

7. ADJOURNMENT

Motion by Board Member Houts and seconded by Board Member Bernard to adjourn the meeting.

The meeting adjourned at 7:20 p.m.

Respectfully submitted,

Chris Anderson
Senior Planner

ATTEST:

Kathy Schmitz
Administrative Clerk

Drafted by Amanda Staple
TimeSaver Off Site Secretarial, Inc.

Environmental Policy Board (EPB)

Meeting Date: 03/17/2025

Primary Strategic Plan Initiative:

Information

Title:

Appoint Chair and Vice Chairperson

Purpose/Background:

Each year, Commissions and Boards appoint officers. Currently, Ms. Melissa Fetterley serves as Chairperson and Ms. Laura Moore serves as Vice Chair. The current chair and vice chair appointments are valid through the end of March. The new appointments will go into effect on April 1, 2025, and will run through March 31, 2026.

On February 14, 2023, the City Council adopted a new policy related to serving as Chair of any Board or Commission. The City Council expressed a desire to offer members an opportunity to grow their experience while serving on a Board or Commission and therefore, effective April 1, 2023, a member may only serve a maximum of two (2)consecutive terms as Chair. After that, a new member is to be appointed as Chair. The outgoing Chair could be appointed as Vice Chair and would be eligible to serve as Chair again in the future. Chair Fetterley is currently serving her first term as Chair and, therefore, she is still eligible for the role of Chairperson this year.

Recommendation:

NA

Outcome/Action:

Motion to appoint _____ as Chairperson of the Environmental Policy Board.

-and-

Motion to appoint _____ as Vice Chairperson of the Environmental Policy Board.

Attachments

No file(s) attached.

Form Review

Inbox

Brian Hagen

Form Started By: Chris Anderson

Final Approval Date: 03/13/2025

Reviewed By

Brian Hagen

Date

03/13/2025 12:54 PM

Started On: 03/06/2025 08:44 AM

Environmental Policy Board (EPB)**Meeting Date:** 03/17/2025**Primary Strategic Plan Initiative:** Promote economic growth and development.**Information****Title:**

Consider the Natural Resources Aspects of a Site Plan for a Parking Lot Expansion at 7900 Riverdale Drive (Project No. 25-102); Case of Pleasureland RV

Purpose/Background:

The City has received a Land Use Application from Pleasureland RV Center - North Metro (the "Applicant") for a proposed parking lot expansion at 7900 Riverdale Drive NW (the "Subject Property"). Part of this project also includes connecting the building to the City's sanitary sewer and municipal water systems. If the Subject Property did not abut land with existing residential uses, this would have qualified for an Administrative Site Plan review.

Time Frame/Observations/Alternatives:**Project Overview and Background Information**

The Applicant actually owns land on both sides of Riverdale (7900 and 7945 Riverdale Drive). The proposed improvements are all on the parcel along the south side of Riverdale Drive. The Subject Property is approximately 6.84 acres in size and is zoned B-3 Regional Business District. The parcels to the east, west, and north are all also zoned B-3. The parcels abutting the Subject Property to the south are zoned R-1A Single Family Residential. Motor vehicle sales and showrooms and rental are a Conditional Use in this zoning district. However, the use existed on the Subject Property prior to the most recent zoning code overhaul and thus, the use is considered lawful, nonconforming.

The western quarter or so of the Subject Property is vacant, pervious land. The Applicant is proposing to expand their parking lot west to accommodate additional inventory. As part of this project, the Applicant will be abandoning their septic system and connecting to the City's sanitary sewer system. Additionally, while the Applicant intends to retain their well for irrigation purposes, the building will also be connected to the City's municipal water system.

Existing Natural Resources Information

The City's Natural Resources Inventory (NRI) does not identify any native plant communities on the Subject Property. Furthermore, per the Minnesota Land Cover Classification System (MLCCS), the Subject Property is classified as 'Urban with Little Vegetative Cover'. Finally, there are no wetlands or floodplain on the Subject Property either.

Tree Inventory and Preservation Plan

The only trees on the Subject Property were installed when the site was originally developed. None of the plantings were installed in the westernmost quadrant of the Subject Property (the plantings only extended as far west as the existing parking area). Therefore, a tree inventory and preservation plan is not required for this project.

Landscape Plan

The Applicant is proposing to continue with the existing pattern of landscaping along the northern boundary of the Subject Property. This includes alternating silver maples and clusters of juniper shrubs. Along the western boundary of the Subject Property, they are proposing Norway spruces, interspersed with pairs of juniper shrubs. Along the southern boundary, where, due to existing residential uses to the south, a bufferyard is required, the Applicant is proposing a mixture of Norway spruce, silver maple, concolor fir, and groupings of juniper shrubs.

The minimum required width of the bufferyard is forty (40) feet, with an additional thirty percent (30%) of plantings in this area. The plans do satisfy the bufferyard (and general landscaping) requirements. Staff has recommended utilizing a different shrub species in the bufferyard, as the Andorra juniper does not typically get much taller than two (2) feet. Furthermore, it appears that the labeling for the juniper shrub has a typo, which Staff has requested to be corrected (shows the size of the shrubs as 2.5" rather than 24" in height or width, depending on the species' growth characteristics). Otherwise, the Landscape Plan is generally acceptable.

RV Dump Station

There is currently an RV dump station near the southeastern corner of the parking lot on the Subject Property. This dump station is currently connected to the septic system. However, since the septic system is being abandoned, the Applicant is proposing to connect the RV dump station to the sanitary sewer as part of this project. The City's Utilities Supervisor is meeting with the Applicant to better understand how this system will work and what safeguards need to be in place to protect the City's sanitary sewer system.

Funding Source:

All costs associated with this review are the Applicant's responsibility.

Recommendation:

Staff recommends approval of the natural resources aspects of this project, contingent upon compliance with Staff's review comments.

Outcome/Action:

Motion to recommend approval of the natural resources aspects of the Site Plan.

Attachments

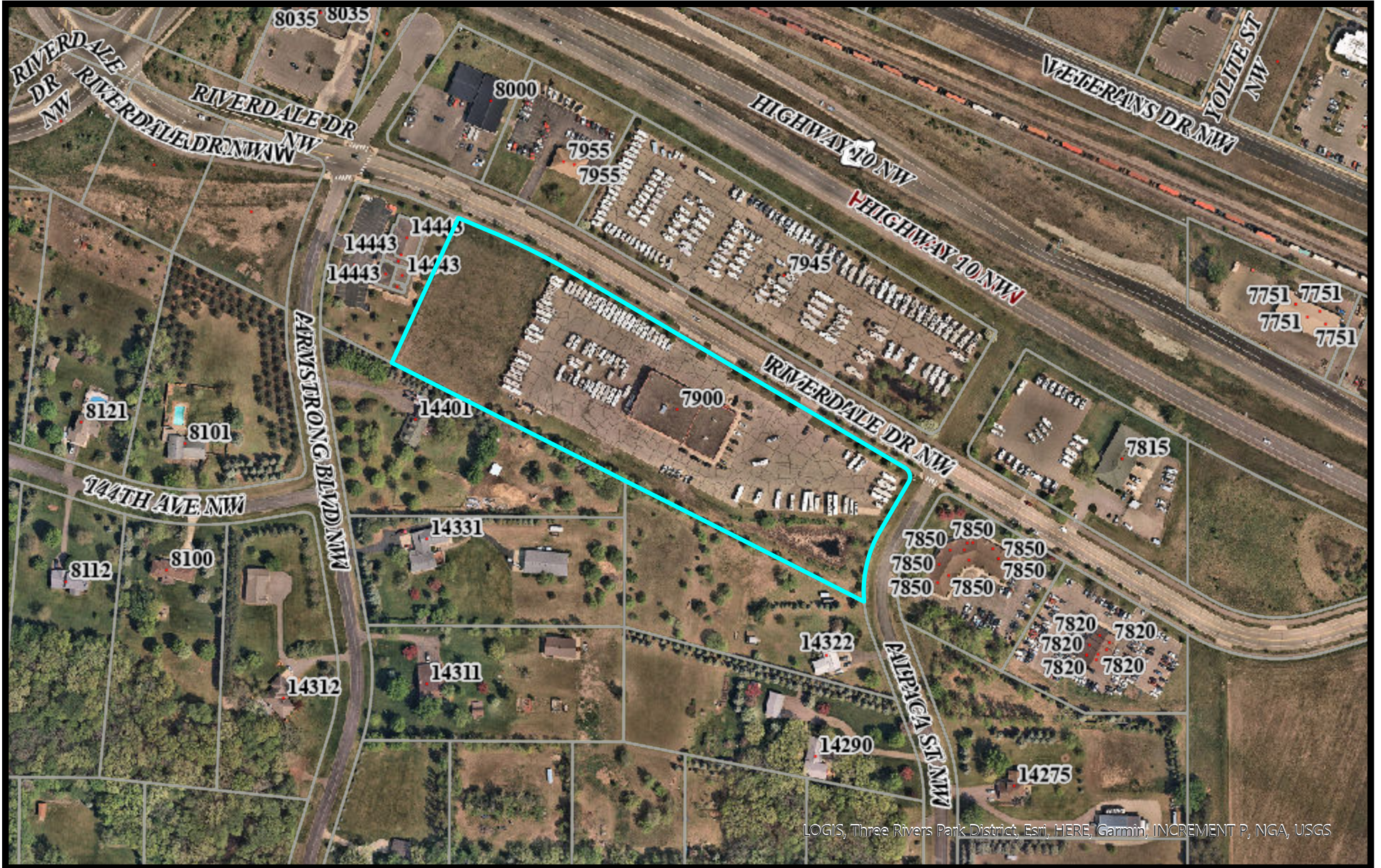
- Site Location Map
- Certificate of Survey
- Grading, Drainage, and Erosion Control Plan
- Site and Dimension Plan
- Utility Plan
- Landscape Plan with Staff Review Comments

Form Review

Inbox	Reviewed By	Date
Brian Hagen	Brian Hagen	03/13/2025 12:48 PM
Form Started By: Chris Anderson		Started On: 03/04/2025 10:36 AM
Final Approval Date: 03/13/2025		

Pleasureland RV

Site Location Map



Print Date: February 19, 2025

0 0.02 0.04 0.07 0.11 0.14 mi

Certificate of Survey

for

Pleasureland RV & Truck Center

Sec. 28 & 29, T. 32, R. 25, Anoka County, Minnesota

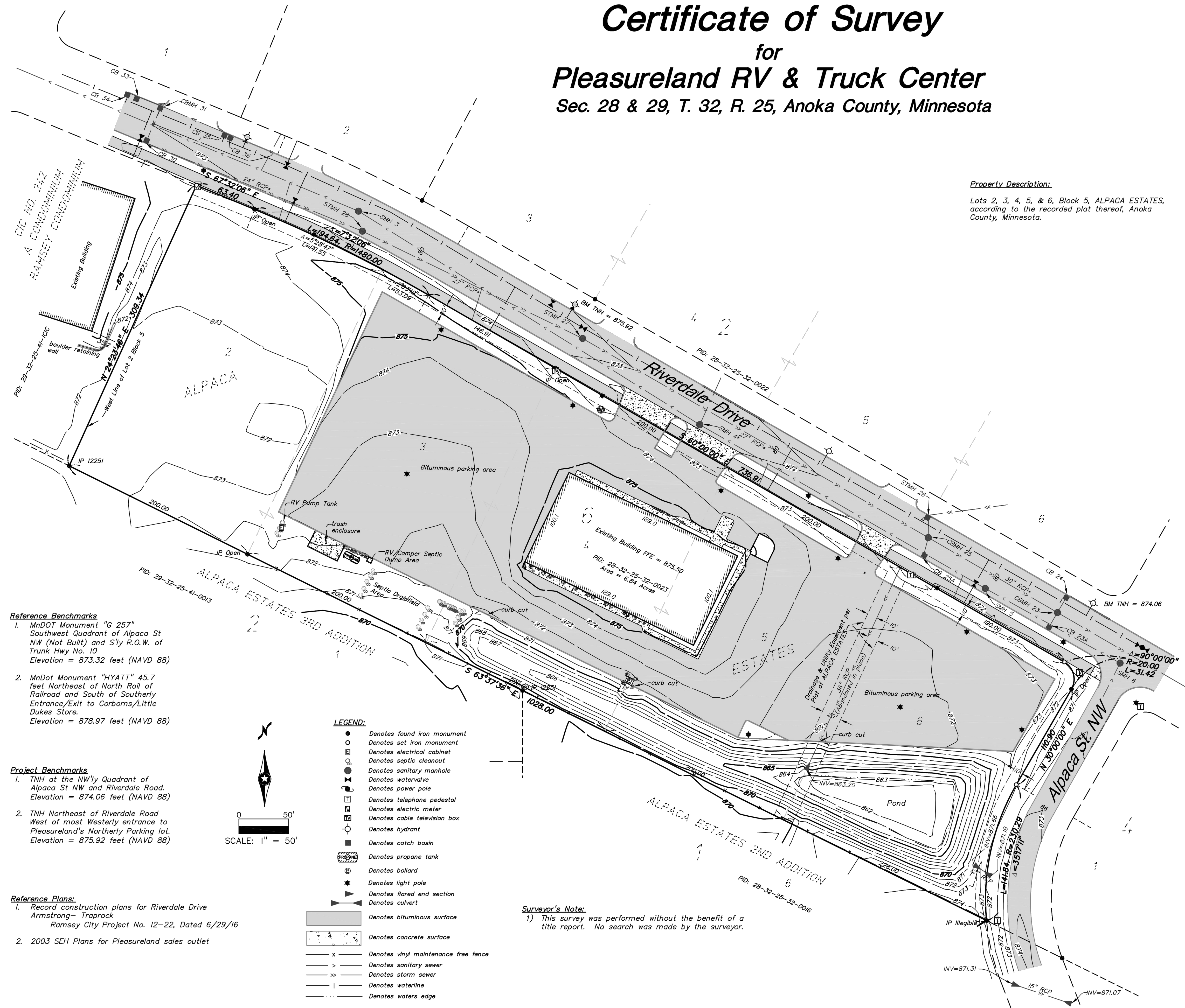
Property Description:

Lots 2, 3, 4, 5, & 6, Block 5, ALPACA ESTATES, according to the recorded plat thereof, Anoka County, Minnesota.

STORM SEWER		
STRUCTURE	RIM	INVERT
CBMH 23	871.58	866.44 (N)* 867.23 (S)* 863.61 (NW)* 863.51 (SE)*
CB 23A	871.06	
CB 24	871.03	
CBMH 25	871.56	866.70 (N)* 866.50 (S)* 864.12 (NW)* 864.02 (SE)*
CB 25A	871.00	866.75*
STMH 26	870.98	
STMH 27	873.22	864.65 (NW)* 864.55 (SE)*
STMH 28	873.66	864.89 (NW)* 864.79 (SE)*
CB 30	872.60	867.19 (N)* 867.62 (SE)*
CBMH 31	872.42	
CB 33	872.38	
CB 34	872.40	
CB 35	872.53	
CB 36	872.56	

SANITARY SEWER		
STRUCTURE	RIM	INVERT
SMH 3	873.79	861.65*
SMH 4	872.31*	862.76*
SMH 5	871.32	864.64*
SMH 6	871.49	865.29*

(* Indicates elevations obtained or interpolated from City Record Plans on NGVD 29 datum. Elevations above shown on NAVD 88 datum.



- Reference Benchmarks**
- MnDOT Monument "G 257" Southwest Quadrant of Alpaca St NW (Not Built) and S'y R.O.W. of Trunk Hwy No. 10
Elevation = 873.32 feet (NAVD 88)
 - MnDOT Monument "HYATT" 45.7 feet Northeast of North Rail of Railroad and South of Southerly Entrance/Exit to Corbors/Little Dukes Store.
Elevation = 878.97 feet (NAVD 88)

- Project Benchmarks**
- TNH at the NW'y Quadrant of Alpaca St NW and Riverdale Road.
Elevation = 874.06 feet (NAVD 88)
 - TNH Northeast of Riverdale Road West of most Westerly entrance to Pleasureland's Northerly Parking lot.
Elevation = 875.92 feet (NAVD 88)

- Reference Plans:**
- Record construction plans for Riverdale Drive Armstrong - Traprock Ramsey City Project No. 12-22, Dated 6/29/16
 - 2003 SEH Plans for Pleasureland sales outlet

LEGEND:

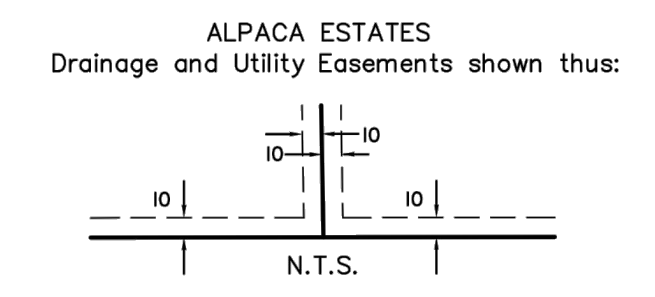
- Denotes found iron monument
- Denotes set iron monument
- Denotes electrical cabinet
- ⊕ Denotes septic cleanout
- ⊙ Denotes sanitary manhole
- ⊕ Denotes water valve
- ⊕ Denotes power pole
- ⊕ Denotes telephone pedestal
- ⊕ Denotes electric meter
- ⊕ Denotes cable television box
- ⊕ Denotes hydrant
- ⊕ Denotes catch basin
- ⊕ Denotes propane tank
- ⊕ Denotes bollard
- ★ Denotes light pole
- ⊕ Denotes flared end section
- ⊕ Denotes culvert
- Denotes bituminous surface
- Denotes concrete surface
- x Denotes vinyl maintenance free fence
- > Denotes sanitary sewer
- >> Denotes storm sewer
- Denotes waterline
- Denotes waters edge

Surveyor's Note:
1) This survey was performed without the benefit of a title report. No search was made by the surveyor.

Existing Impervious Conditions
 Total lot Area = 298,078% S.F.
 Building Area = 18,916% S.F.
 Bituminous/Concrete Area = 137,999% S.F.
 Total Impervious Area = 156,915% S.F. (52.6%)

Zoning
B-2 Highway Business District

Building Setbacks
 Front: 35'
 Side: 10'
 Corner Side: 20'
 Rear: 35'
 Setback from Residential Districts: 35'








Basis of Bearings
For the purpose of this survey, the bearings are based upon the recorded plat of ALPACA ESTATES.

REV. NO.		DATE		DESCRIPTION
02/11/2025		DESIGN BY:		
		DRAWN BY:		
		CHECKED BY:		
		DWG FILE:		
		FILE NO.:	18-0269.01	

<p>I hereby certify that this survey was made in accordance with the laws of the State of Minnesota, and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.</p> <p style="text-align: right;"> Craig W. Bogart Professional Engineer License No. 107129813 Lic. No. 456688 </p>	<p>BOGART, PEDERSON & ASSOCIATES, INC.</p> <p>LAND SURVEYING & ENGINEERING</p> <p>13076 FIRST STREET, BECKER, MN 55308-9322 TEL: 763-262-8822 FAX: 763-262-8844</p>
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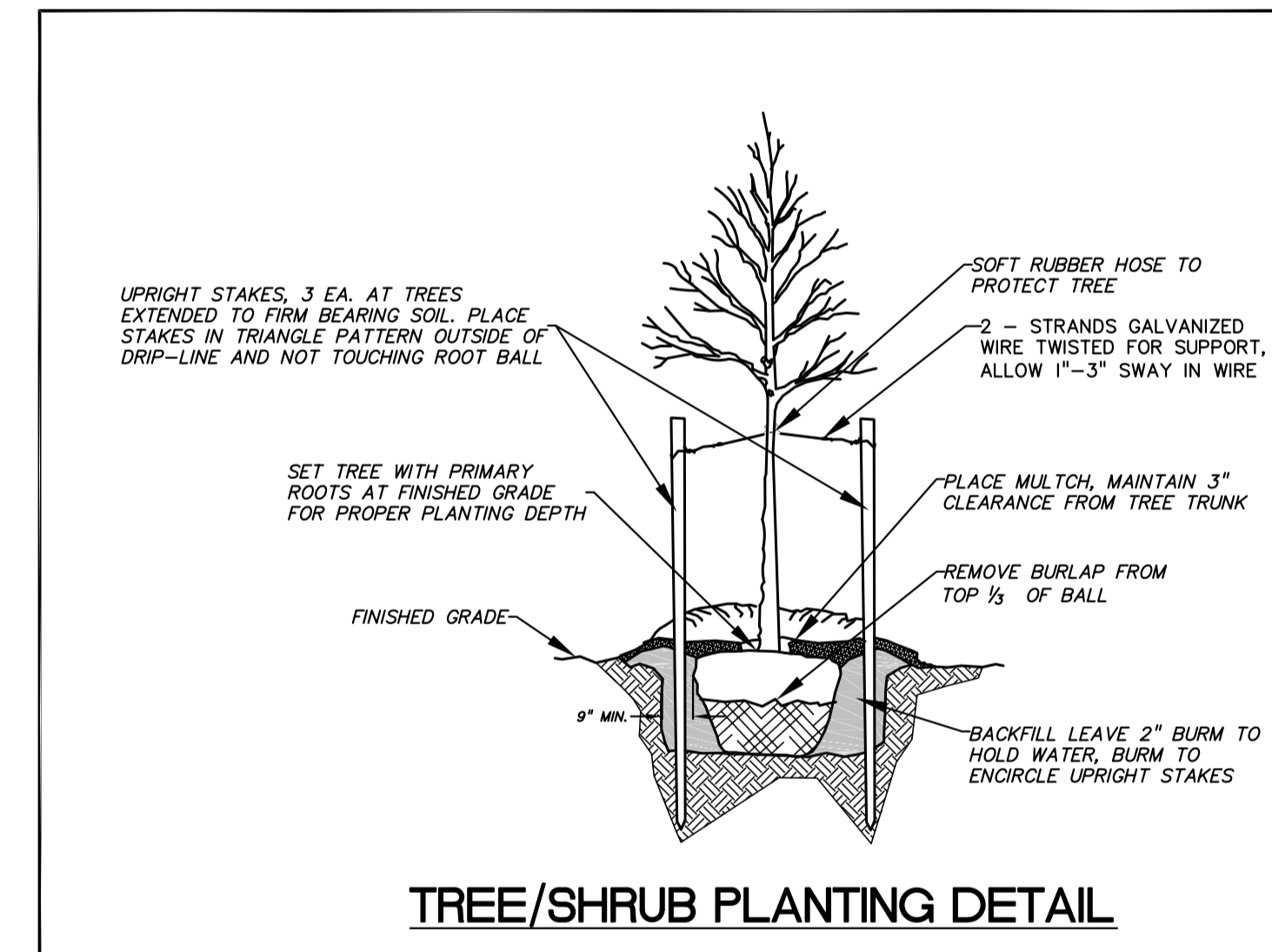
<p>Pleasureland RV Site Improvements 7900 Riverdale Dr NW City of Ramsey, Anoka County, MN</p> <p style="text-align: right;">Certificate of Survey</p>	<p>SHEET NO.</p> <p style="font-size: 2em; font-weight: bold;">V1.0</p>
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LEGEND:

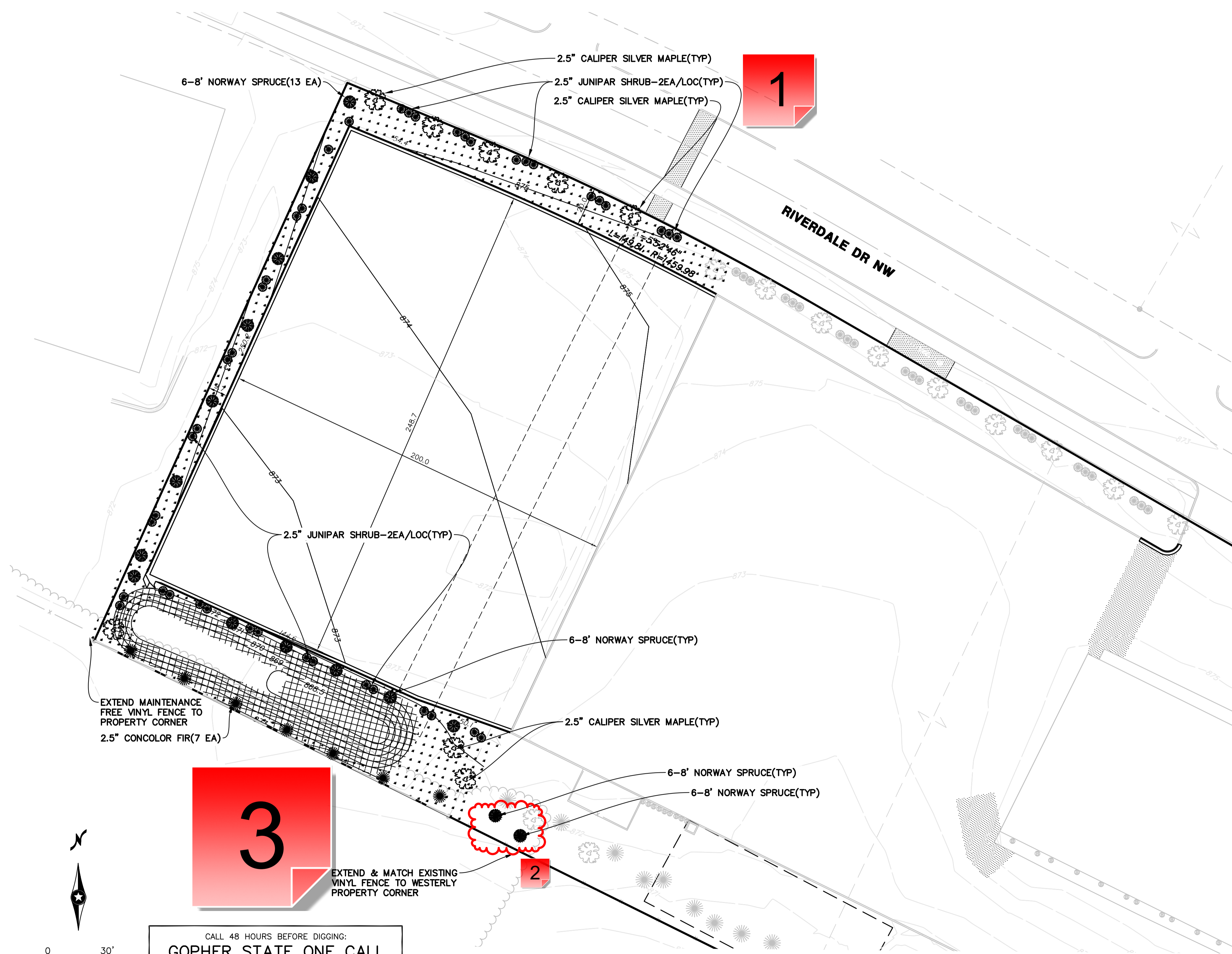
-  PROPOSED SOD TURF ESTABLISHMENT
-  PROPOSED EROSION CONTROL BLANKET IN POND (PER DETAIL)
-  PROPOSED 2 1/2" CALIPER SILVER MAPLE
-  PROPOSED 6-8' NORWAY SPRUCE PINE TREE
-  PROPOSED 6-8' CONCOLOR FIR PINE TREE
-  PROPOSED JUNIPER ANDORRA SHRUB
-  EXISTING DECIDUOUS TREE
-  EXISTING PINE TREE
-  EXISTING SHRUBS


TREES/SHRUBS PLANTING SCHEDULE:

QTY	SIZE/HT	TYPE/SPECIES
7 EA	6-8 FT	CONCOLOR FIR (ABIES CONCOLOR)
13 EA	6-8 FT	NORWAY SPRUCE (PINEA ABIES)
8 EA	2-1/2"	CALIPER SILVER MAPLE (ACER SACCHARINUM 'LACINIATUM')
35 EA	24"	COMPACT ANDORRA JUNIPER (JUNIPERUS HORIZONTALIS 'PLUMOSA COMPACTA')

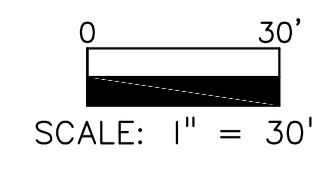


NOTE
 1. SHRUB SIZE AT INSTALLATION MUST BE AT LEAST 24 INCHES IN HEIGHT OR WIDTH, DEPENDING ON GROWTH CHARACTERISTICS OF THE SPECIES.



	DESCRIPTION	DATE	REV. NO.	DATE: 02/11/2025	DESIGN BY: CJD,TJO	DRAWN BY: CJD,TJO	CHECKED BY: NAA	DWG FILE: 4-Landscape	FILE NO.: 18-0269.01
<p>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 Engineer under the laws of the State of Minnesota.</p> <p>Signed:  Christopher J. Dahm Lic. No. 56628 Date: 02/11/2025</p>									
<p>BOGART, PEDERSON & ASSOCIATES, INC.</p> <p>LAND SURVEYING & ENGINEERING MAPPING</p> <p>13076 FIRST STREET, BECKER, MN 55308-9322 TEL: 763-262-8822 FAX: 763-262-8844</p>									
<p>Pleasureland RV Site Improvements 7900 Riverdale Dr NW City of Ramsey, Anoka County, MN</p> <p style="text-align: right;">Landscape Plan</p>									
SHEET NO.									
C6.0									

CALL 48 HOURS BEFORE DIGGING:
GOPHER STATE ONE CALL
 TWIN CITY AREA 651-454-0002
 MINNESOTA TOLL FREE 1-800-252-1166



1 - Juniper Andorra Size

Created by: Chris Anderson
On: 02/20/2025 08:49 AM

Update the size of the juniper shrubs. The labels show it as 2.5" but it should be 24" (the size is correct in the planting schedule).

----- 0 Replies -----

2 - Species?

Created by: Chris Anderson
On: 02/20/2025 08:55 AM

This species symbol isn't in the plant schedule. Plant schedule calls for 13 Norway Spruce, which there are, excluding these 2 trees. Add this symbol to the plant schedule or change it to the symbol for Norway Spruce.

----- 0 Replies -----

3 - Shrub Species

Created by: Chris Anderson
On: 02/20/2025 09:21 AM

It is recommended that an alternative shrub species be used around the pond. This is a 'bufferyard', which is required by City Code (due to residential to the south), and the Andorra Juniper only gets to maybe about 2 feet in height. A taller growing shrub would do more in terms of screening or buffering between the different uses.

----- 0 Replies -----

Environmental Policy Board (EPB)**Meeting Date:** 03/17/2025**Primary Strategic Plan Initiative:** Promote economic growth and development.**Information****Title:**

Consider the Natural Resources Aspects of a Ground-Mounted Solar Energy System Proposed at the Closed Landfill (Project No. 25-100)

Purpose/Background:

The City has received a Land Use Application from Cedar Creek Energy (the "Applicant") to construct a ground-mounted solar energy system on two (2) parcels (PID #s 27-32-25-14-0003 & 27-32-25-11-0004) on the closed landfill site (the "Subject Property"). The State of Minnesota, as the Property Owner, and has joined in the application.

As part of the 2040 Comprehensive Plan Update, the State of Minnesota (via the Minnesota Pollution Control Agency) requested a new land use category, Closed Landfill, be added to the Comprehensive Plan. With that addition, the City also added a new zoning district, Closed Landfill, to the Zoning Code as well. The State of Minnesota requested the added land use designation so that it may be possible to utilize a portion of the Closed Landfill site for solar energy production.

Time Frame/Observations/Alternatives:**Project Overview**

The Applicant is proposing to install a 4.125-megawatt (MW) AC, 5.66 MW DC, ground-mounted, single-axis tracking solar PV array in the southeast portion of the closed landfill site. No part of the solar array will be on the landfill 'cap'. All the power generated from this system will be supplied to Connexus Energy's grid system, with no need for on-site battery storage. Due to existing and proposed topography and tree cover, significant portions of the solar energy system will be screened from view from both Sunwood Drive and Sunfish Lake Boulevard. The Subject Property is both zoned and guided as Closed Landfill and solar energy systems are a permitted use in this zoning district.

Existing Natural Resources Information

The City's Natural Resources Inventory (NRI) identifies a couple of different native plant communities on the Subject Property as well as an altered/non-native wetland. There is a high quality 'grassland with sparse deciduous trees' that clips the far northwest corner of the Subject Property. The vast majority of this high quality native plant community is west of where the proposed solar array will be installed. However, one (1) bur oak and two (2) red pines will be removed, which are technically within the high quality native plant community. The State of Minnesota actually developed a management plan for this high quality plant community, as it is actually one of the larger remnant oak savannas left in the county. This plant community will be generally unaffected by this project, with only the three (3) aforementioned trees being removed.

There is also a moderate quality oak woodland-brushland native plant community in the southeast corner of the Subject Property. This plant community appears to be outside the construction limits for the project and thus, should be left undisturbed. In the very southeast corner of the Subject Property is a wetland, which also crosses over onto a city-owned parcel at the intersection of Sunfish Lake Boulevard and Sunwood Drive, which is categorized as an altered/non-native plant community. This wetland area is outside the construction limits for this project as well, and therefore, should also be undisturbed as a result of this project. Finally, there is a small wetland within the construction limits and, while it is not identified in the NRI as a native plant community, the solar array will be positioned around the wetland and the 16.5 foot wetland setback.

There are no floodplains on the Subject Property.

Tree Inventory and Preservation Plan

A tree inventory and preservation plan was submitted with the plan set. The dominant tree species on site include eastern red cedar, red pine, cottonwood, and bur oak. The project will result in the removal of approximately sixty-eight percent (68%) of the existing significant tree inches, which does comply with the tree preservation standards for Business and Industrial zoning districts. Additionally, about two dozen smaller (DBH of 4 inches) red cedars will be transplanted to provide more screening of the solar array along Sunwood Drive.

Landscape Plan

A Landscape Plan was not submitted, nor are there any specific landscaping requirements for the Closed Landfill zoning district. However, the submittal does include an Erosion and Sediment Control and Restoration Plan which indicates the entire site will be seeded with a Dry Prairie seed mix. Furthermore, the Applicant has submitted a Vegetation Management Plan, prepared by Natural Resources Services, outlining the establishment and maintenance standards to ensure a viable prairie establishment. Moreover, the chosen seed mix qualifies for the Habitat Friendly Solar status, which was developed by the Board of Water and Soil Resources.

Funding Source:

All costs associated with this review are the Applicant's responsibility.

Recommendation:

Staff recommends approving the natural resources aspects of this project.

Outcome/Action:

Motion to recommend approval of the natural resources aspects of this Site Plan.

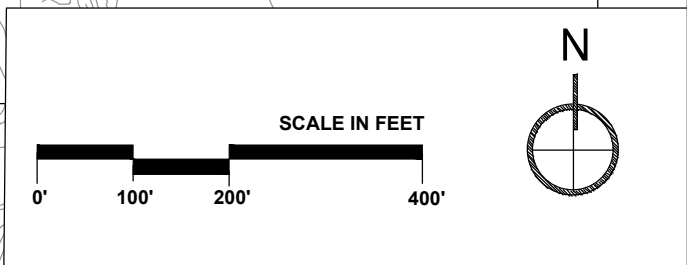
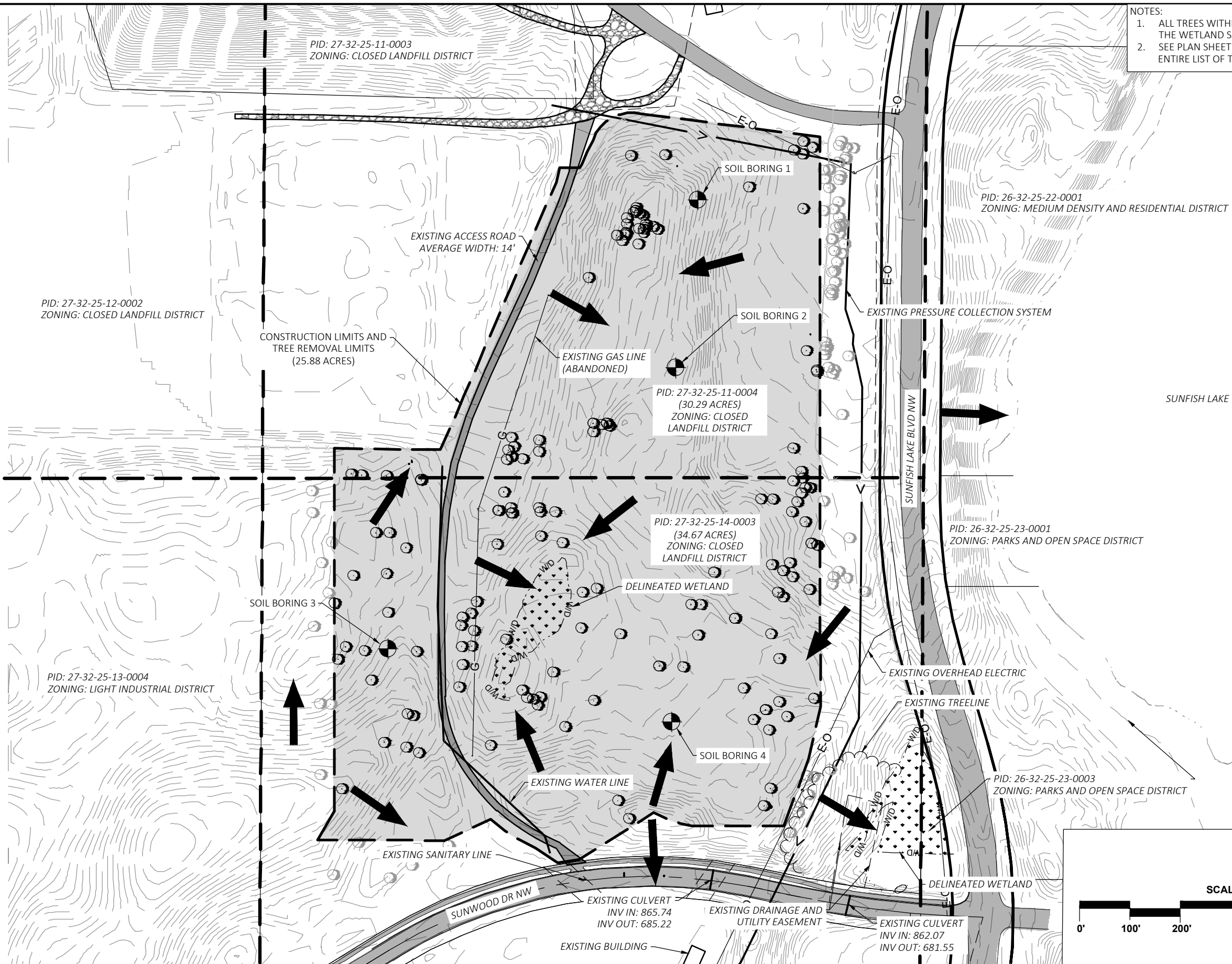
Attachments

- Site Location Map
- ALTA Survey
- Existing Conditions
- Site Plan
- Side Profile of Solar Array Equipment
- Erosion & Sediment Control and Restoration Plan
- Restoration Notes
- Tree Inventory and Preservation Plan
- Vegetation Management Plan

Form Review

Inbox	Reviewed By	Date
Brian Hagen	Brian Hagen	03/13/2025 12:49 PM
Form Started By: Chris Anderson		Started On: 03/06/2025 09:12 AM
Final Approval Date: 03/13/2025		

- NOTES:
1. ALL TREES WITHIN CONSTRUCTION LIMITS AND OUTSIDE THE WETLAND SHALL BE REMOVED.
 2. SEE PLAN SHEET 04 - TREE PRESERVATION PLAN FOR ENTIRE LIST OF TREES ONSITE AND TRANSPLANTED.



Plot Date: 02/18/2025
 Drawing name: X:\Clients_P\1518_Cedar_Creek_Energy\020_Corona_Landfill_Solar\02_GIS\Drawings\01518_0020_Existing_Conditions.dwg
 User: KDC
 Date: 02/18/2025 10:48:00 AM
 Project: 1518_Cedar_Creek_Energy

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1919 JUV. AV. W. #300 ST. PAUL, MN
ILL: 651.770.8448 WWW.LORINC.COM

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 ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

KYLE D. CRAWFORD DATE: 02/18/2025 LICENSE #54906

DATE	NO.	DESCRIPTION
02/18/2025	1	IFPR - ISSUED FOR PERMIT REVIEW
	2	
	3	
	4	
	5	
	6	

DESIGNED BY: ERK
 DRAWN BY: BMP
 CHECKED BY: KDC
 EOR JOB #1518-0020



LANDFILL SOLAR
 RAMSEY, ANOKA COUNTY, MINNESOTA

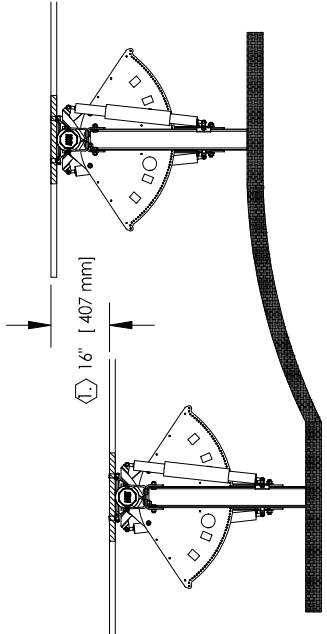
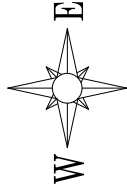
CEDAR CREEK ENERGY RAMSEY, MINNESOTA, 55303

EXISTING CONDITIONS AND REMOVALS PLAN

SHEET 04 OF 11

NOTE:

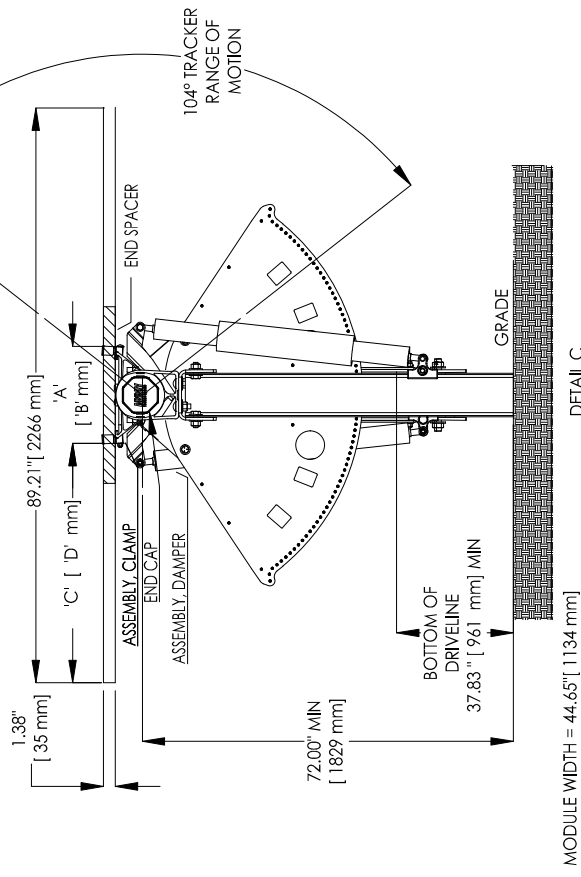
- IF THE HEIGHT DIFFERENCE AVERAGED AT ROW EXTREMITIES EXCEEDS THE DISTANCE NOTED, ROW ON HIGHER PLANE IS AN EXTERIOR ROW.



DETAIL A

NOTE:

- MINIMUM DISTANCES AND MODULE DATA
- REFERENCE INDIVIDUAL FIELD ASSEMBLY DRAWINGS FOR DETAILS. INSTALL END CLAMP SPACER ON END CLAMPS. INSTALL END CAP AT END OF TUBE.

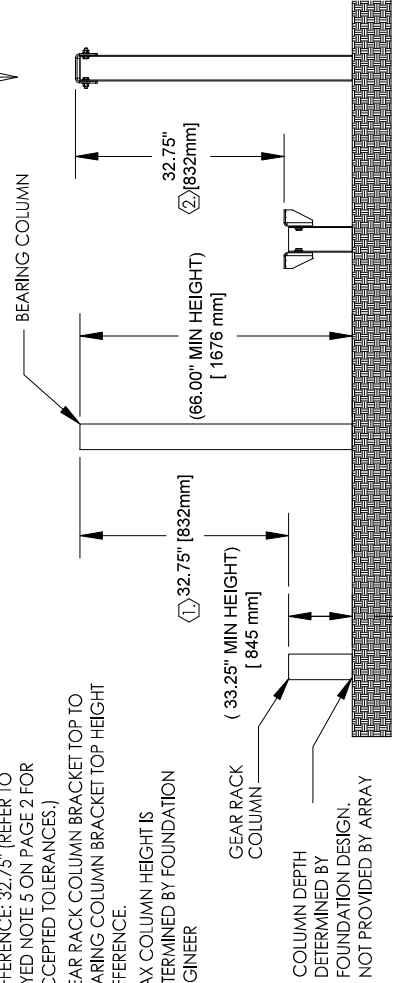
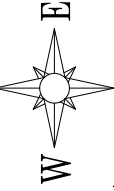


MODULE WIDTH = 44.65" [1134 mm]

CLAMP TYPE	DIM 'A' [IN]	DIM 'B' [mm]	DIM 'C' [IN]	DIM 'D' [mm]
400mm THRU BOLT	17.02	432.3	36.33	922.8
1400mm THRU BOLT	56.97	1447.0	16.36	415.5

NOTE:

- GEAR RACK COLUMN TOP TO BEARING COLUMN TOP HEIGHT DIFFERENCE: 32.75" (REFER TO KEYED NOTE 5 ON PAGE 2 FOR ACCEPTED TOLERANCES.)
- GEAR RACK COLUMN BRACKET TOP TO BEARING COLUMN BRACKET TOP HEIGHT DIFFERENCE.
- MAX COLUMN HEIGHT IS DETERMINED BY FOUNDATION ENGINEER



I-BEAM COLUMNS WITHOUT BRACKETS

I-BEAM COLUMNS WITH BRACKETS (GCS)

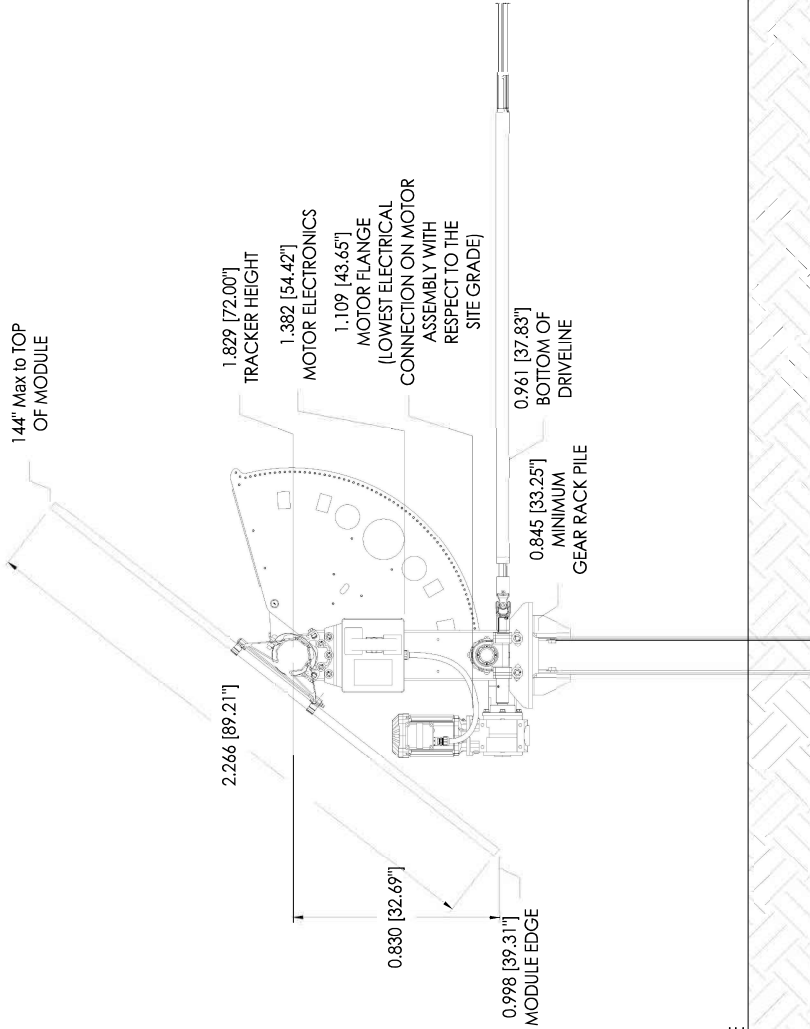
DETAIL B

REV	INITIAL RELEASE	02/10/2025
A	DESCRIPTION	DATE
ARRAY TECHNOLOGIES 3901 Midway Place NE, Albuquerque, NM 87109 (505) 881-7567 OmniTrack® HZ Project:		
DRAWINGS STATUS: Final PRODUCT STATUS: Final		
DATE	NAME	TH
02/10/2025		
DATE	CHECKED	RPCS
02/10/2025		
DATE	APPROVED	
SITE	PRODUCT NUMBER	REVISION
	B 16005	A
SCALE	DWG NO.	U.S. PATENTING
NTS	16005-501	#5,459,249; # 9,281,778
Detail Views		
5 OF 7		



PROPRIETARY AND CONFIDENTIAL
 INFORMATION CONTAINED IN THE DRAWING IS
 THE SOLE PROPERTY OF ARRAY TECHNOLOGIES.
 NO PART OF THIS DRAWING IS TO BE REPRODUCED
 OR TRANSMITTED IN ANY FORM OR BY ANY MEANS,
 WITHOUT THE WRITTEN PERMISSION FROM
 ARRAY TECHNOLOGIES. PROHIBITED.

1. DIMENSIONS PROVIDED IN TABLE ARE FOR REFERENCE ONLY.



DETAIL F
TRACKER HEIGHT

1,6005 Standard Solar Plus On First
Approx. 1,55 MWDC
Northfield, MN 55057
Standard Solar



DRAWING STATUS		DATE	
Final	Final	TH	02/10/2025
Final	Final	RPCS	02/10/2025
APPROVED	---	---	---

CONSTRUCTION SERVICES
R P U A N T A

REV	INITIAL RELEASE	DESCRIPTION	DATE
A			02/10/2025

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DRAWING STATUS		DATE	
Final	Final	TH	02/10/2025
Final	Final	RPCS	02/10/2025
APPROVED	---	---	---

CONSTRUCTION SERVICES
R P U A N T A

REV	INITIAL RELEASE	DESCRIPTION	DATE
A			02/10/2025

1,6005 Standard Solar Plus On First
Approx. 1,55 MWDC
Northfield, MN 55057
Standard Solar

RP CONSTRUCTION SERVICES
R P U A N T A

ARRAY TECHNOLOGIES
3901 Midway Place NE, Albuquerque, NM 87109
(505) 881-7567

OmniTrack® HZ Project:

PROPRIETARY AND CONFIDENTIAL
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DRAWING STATUS: Final
DATE: 02/10/2025

PRODUCT STATUS: Final
DATE: 02/10/2025


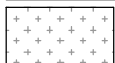
APPROVED: ---
DATE: ---

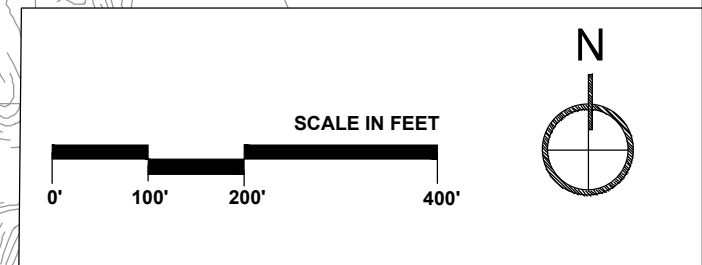
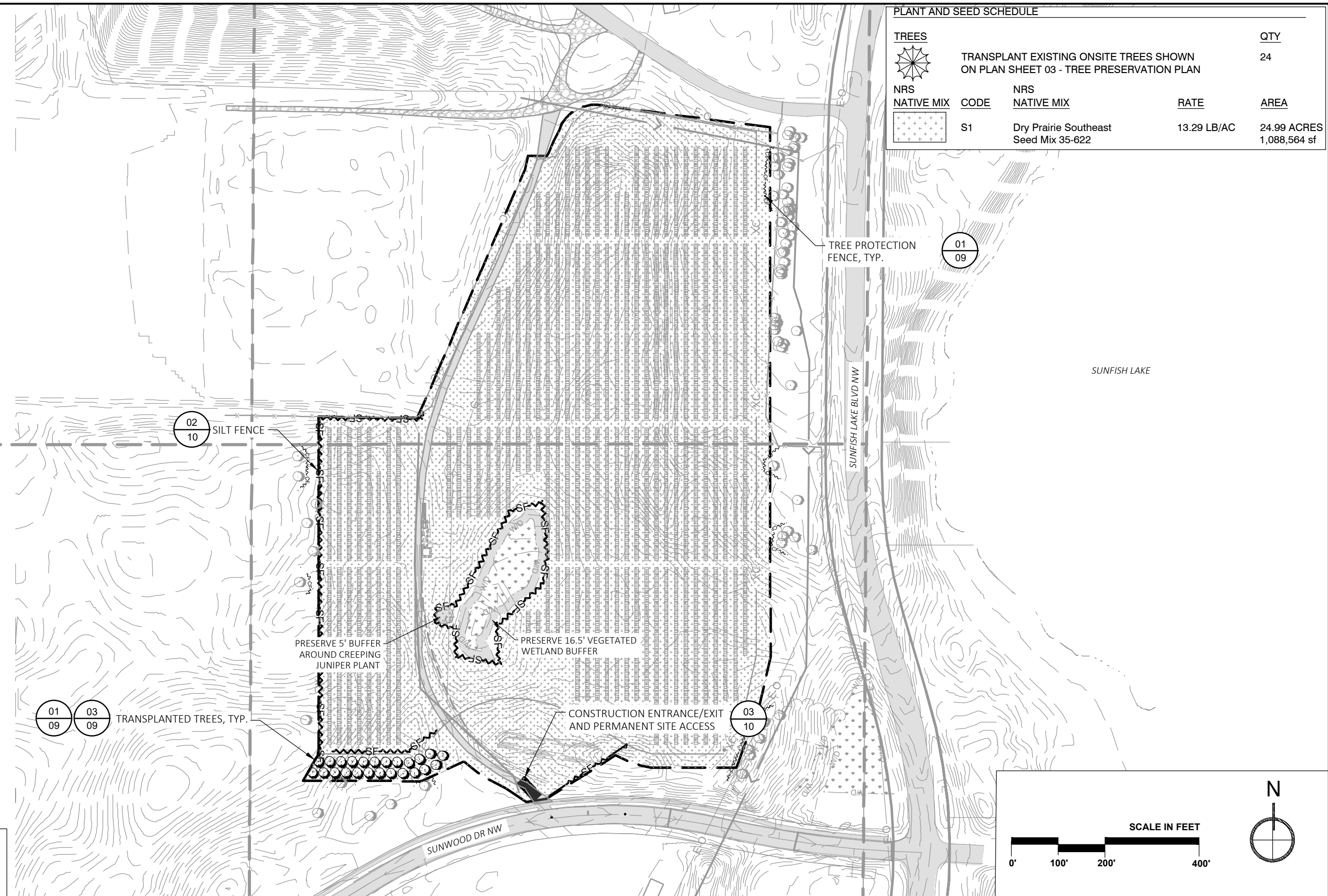
SCALE: 1:6005
U.S. PATENT NO. #8,459,249; # 9,281,778

PRODUCT NUMBER: 16005
REVISION: A

Detail Views

7 OF 7

PLANT AND SEED SCHEDULE				
TREES				QTY
		TRANSPLANT EXISTING ONSITE TREES SHOWN ON PLAN SHEET 03 - TREE PRESERVATION PLAN		24
NRS NATIVE MIX	CODE	NRS NATIVE MIX	RATE	AREA
	S1	Dry Prairie Southeast Seed Mix 35-622	13.29 LB/AC	24.99 ACRES 1,088,564 sf



Plot Date: 02/15/2025
 Drawing name: X:\Clients_P\1518_Cedar_Creek_Energy\0020_Corpus_Landfill_Solar\09_GIS\Drawings\Sheets\01518_0020_Site_Plan.dwg
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 Template: EOR\Imparal CAD Templates\Title Blocks\image\swf\GSOCLogo_2019



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 KYLE D. CRAWFORD DATE: 02/18/2025 LICENSE #54906

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 CHECKED BY: KDC
 EOR JOB #1518-0020



LANDFILL SOLAR
 RAMSEY, ANOKA COUNTY, MINNESOTA
 CEDAR CREEK ENERGY RAMSEY, MINNESOTA, 55303

EROSION & SEDIMENT CONTROL AND RESTORATION PLAN
 SHEET 08 OF 11

GENERAL NOTES

- LANDSCAPE CONTRACTOR SHALL INSPECT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS RELATING TO THE NATURE AND SCOPE OF WORK.
- LANDSCAPE CONTRACTOR SHALL VERIFY PLAN LAYOUT AND BRING TO THE ATTENTION OF THE LANDSCAPE ARCHITECT DISCREPANCIES WHICH MAY COMPROMISE THE DESIGN OR INTENT OF THE LAYOUT.
- LANDSCAPE CONTRACTOR SHALL ASSURE COMPLIANCE WITH APPLICABLE CODES AND REGULATIONS GOVERNING THE WORK AND MATERIALS SUPPLIED.
- LANDSCAPE CONTRACTOR SHALL VERIFY ALIGNMENT AND LOCATION OF UNDERGROUND AND ABOVE GRADE UTILITIES AND PROVIDE THE NECESSARY PROTECTION FOR SAME BEFORE CONSTRUCTION BEGINS.
- LANDSCAPE CONTRACTOR SHALL REVIEW THE SITE FOR DEFICIENCIES IN SITE CONDITIONS WHICH MIGHT NEGATIVELY AFFECT PLANT ESTABLISHMENT, SURVIVAL OR WARRANTY. UNDESIRABLE SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING OF WORK.
- LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ONGOING MAINTENANCE OF NEWLY INSTALLED MATERIALS UNTIL TIME OF FINAL ACCEPTANCE BY LANDSCAPE ARCHITECT. REPAIR OF ACTS OF VANDALISM OR DAMAGE WHICH MAY OCCUR PRIOR TO FINAL ACCEPTANCE SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.

SEEDING NOTES

- SEEDING SHALL FOLLOW MNDOT SEEDING MANUAL 2023 EDITION.
- SEED SHALL BE LOCAL ORIGIN AND WILD ECOTYPE. SEED ORIGIN SHALL BE CERTIFIED BY THE MN CROP IMPROVEMENT ASSOCIATION. LOCAL ORIGIN SHALL MEAN WITHIN 175 MILES OF PROJECT SITE. PROVIDE MCIA DOCUMENTATION TO LANDSCAPE ARCHITECT PRIOR TO SEEDING.
- SOW SEED MIXES ON ALL DISTURBED AREAS AFTER ALL GRADING ACTIVITIES HAVE BEEN COMPLETED. SEEDING MAY TAKE PLACE PRIOR TO PILE DRIVING AND SOLAR ARRAY INSTALLATION, HOWEVER ANY DISTURBED AREAS WILL HAVE TO BE RE-SEEDING.
- ACCEPTABLE SEEDING DATES ARE APRIL 15 - JULY 20 IN THE SPRING, OR SEPTEMBER 20 - OCTOBER 20 IN THE FALL. WRITTEN PERMISSION MUST BE GRANTED BY THE LANDSCAPE ARCHITECT TO PERFORM SEEDING OPERATIONS ON ANY OTHER DATES OF THE YEAR.
- SEEDING METHODS 1-3 ARE ANTICIPATED ACROSS THE SITE IN RESPONSE TO SITE CONDITIONS. CONTRACTOR WILL PREPARE SEEDING PLAN IN CONJUNCTION WITH PROJECT LANDSCAPE ARCHITECT, APPROVAL IS NECESSARY TO EXECUTE.
- SOW NATIVE SEEDS WITH A MULTI-BOX BROADCAST SEEDER SUCH AS THE TRILLION BY TRUAX, WHERE POSSIBLE.
- PREPARE SEED BED PRIOR TO SEEDING PER MNDOT SPEC. 2574.3.A.4.
- SOLAR ARRAYS MUST BE PROTECTED FROM HYDRO-MULCH OVERSPRAY OR CLEANED AFTER APPLICATION PER MNDOT SPEC. 2575.3.E.
- COVER NATIVE SEED MIXES WITH CLEAN STRAW MULCH (TYPE 3), AND DISC ANCHOR, EXCEPT WHERE EROSION CONTROL BLANKET IS INDICATED ON PLANS.
- USE TEMPORARY EROSION CONTROL DEVICES (SEDIMENT LOGS, SILT FENCE) AS NEEDED TO PREVENT EROSION PRIOR TO AND DURING SEED ESTABLISHMENT.
- INCLUDE A COVER CROP OF OATS WITHIN NATIVE GRASS SEED MIX (@ RATE OF 32 LB/ACRE) IF SEEDING BETWEEN OCTOBER 15TH AND AUGUST 1ST. IF SEEDING BETWEEN AUGUST 1ST AND OCTOBER 15TH, SUBSTITUTE WINTER WHEAT FOR OATS AT THE SAME RATE.

SEED ESTABLISHMENT NOTES

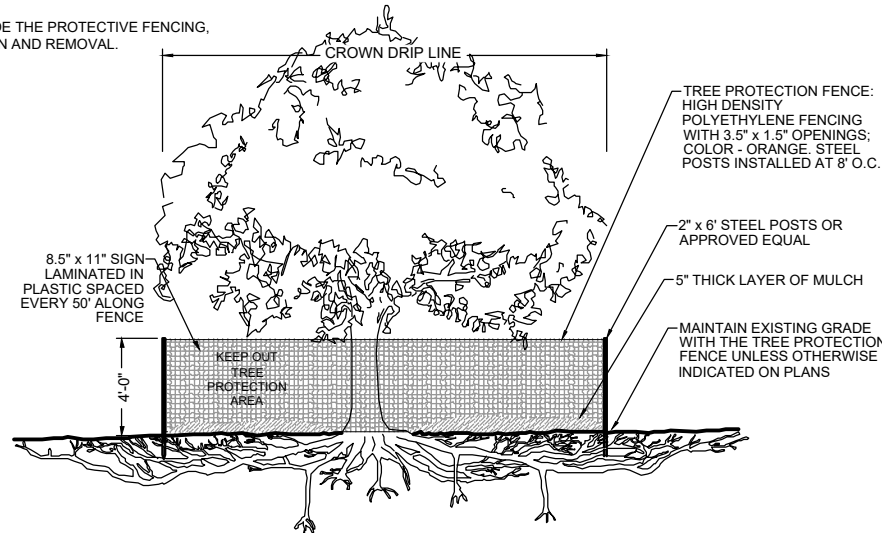
- ESTABLISHMENT PERIOD COMMENCES UPON ACCEPTANCE OF SEEDING (ADEQUATE COVER CROP GERMINATION AND COVERAGE) AND RUNS FOR THREE YEARS FROM THIS DATE.
- MONITOR THE SITE MONTHLY DURING THIS PERIOD TO DETECT AREAS OF WEED COLONIZATION. CUT OR TREAT ALL NOXIOUS WEEDS (AS CURRENTLY DEFINED BY MN DEPARTMENT OF AGRICULTURE) WITH GLYPHOSATE HERBICIDE AS SOON AS DETECTED.
- DURING THE FIRST GROWING SEASON MOW OR CUT THE ENTIRE SEEDED AREA EVERY 30 DAYS UNTIL SEPTEMBER 30TH AT A HEIGHT OF 5-8".
- DURING THE SECOND GROWING SEASON MOW OR CUT THE ENTIRE SEEDED AREA ONCE IN MID-JUNE AND ONCE IN MID-AUGUST AT A HEIGHT OF 5-8".
- IF AREAS OF BARE GROUND PERSIST AFTER FIRST GROWING SEASON RESEED PER PLAN.
- AFTER THE FIRST TWO GROWING SEASONS MOW OR CUT NATIVE SEED AREAS IN LATE FALL OR EARLY SPRING. RAKE OUT AND REMOVE DOWNED VEGETATION.

TREE PRESERVATION AND TRANSPLANT NOTES

- TREES TO BE RELOCATED WILL BE TAGGED IN THE FIELD BY THE ENGINEER. CONTRACTORS SHALL IMMEDIATELY TRANSPLANT TREES DUG FOR RELOCATIONS, AND WATER AS NECESSARY. CONTRACTOR SHALL BE RESPONSIBLE FOR TREE MORTALITY AND REPLACE FAILED TREES AT NO COST TO PROJECT.

NOTE:

- SEE SPECIFICATIONS FOR ADDITIONAL TREE PROTECTION REQUIREMENTS.
- NO PRUNING SHALL BE PERFORMED.
- NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE FENCING, INCLUDING DURING FENCE INSTALLATION AND REMOVAL.



01 TREE PROTECTION FENCING

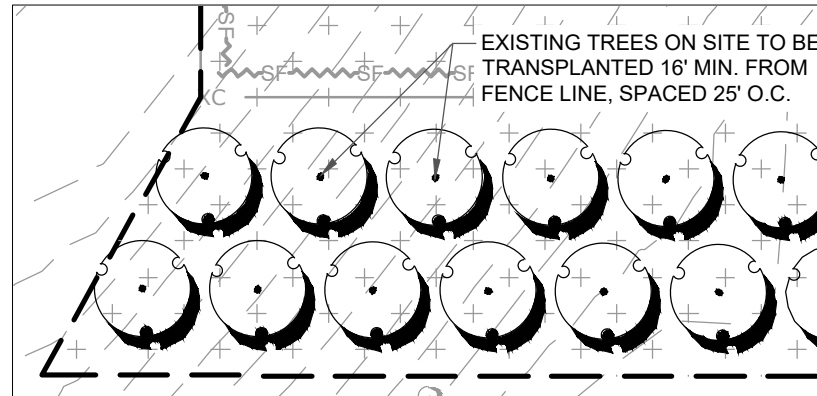
1:20

SEEDING SCHEDULE

Symbol	Seed Type	Seeding Rate (lb/acre)	Total Area (acre)
S1	NRS Native Mix	13.29	24.99
		TOTAL	25.0

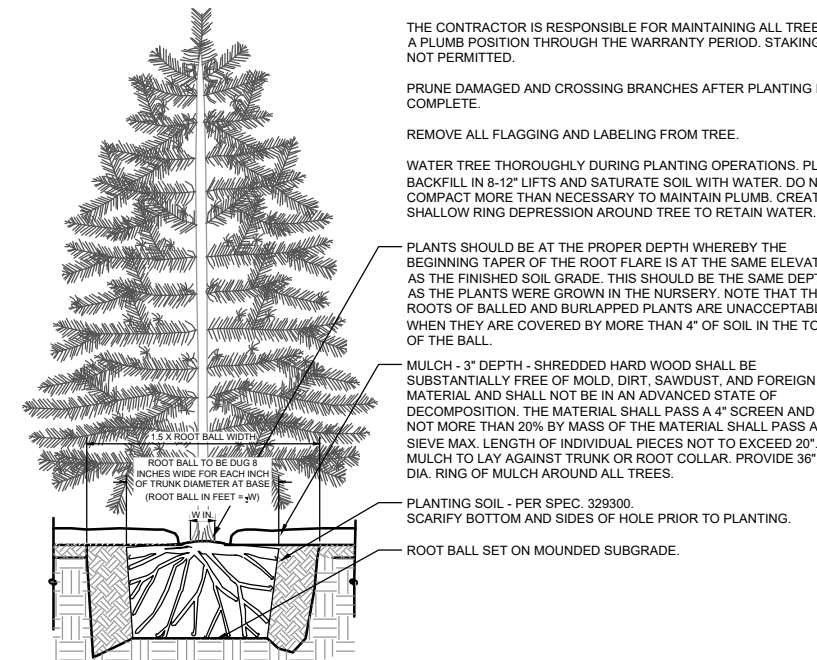
Coniferous Tree Transplanting Schedule

Symbol	Quantity	Scientific Name	Common Name	Size
JV	24	<i>Juniperus virginiana</i>	Eastern Red Cedar	3-4' Height
	24	Total		



02 TREE TRANSPLANTING - LAYOUT PLAN

1:20



03 CONIFEROUS TREE TRANSPLANTING DETAIL

NOT TO SCALE

Connexus Landfill Native Mix							
Application rate = 13.25 lb/ac (85 seeds/sf)							
Type	Scientific Name	Common Name	Seeds/ sq ft	Rate (lb/ac)	% Mix (by sqft)	% Mix (by wt)	
Cover	<i>Avena sativa / Triticum aestivum</i>	Oats / Winter Wheat		25			
Forb	<i>Achillea millefolium</i>	Common Yarrow	4.91	0.08	5.78%	0.57%	
	<i>Agastache foeniculum</i>	Anise Hyssop	0.40	0.01	0.47%	0.09%	
	<i>Allium stellatum</i>	Prairie Onion	0.06	0.02	0.07%	0.11%	
	<i>Amorpha canescens</i>	Lead Plant	1.01	0.17	1.19%	1.30%	
	<i>Anemone canadensis</i>	Canada Anemone	0.02	0.01	0.03%	0.06%	
	<i>Aquilegia canadensis</i>	Wild Columbine	0.10	0.01	0.12%	0.06%	
	<i>Asclepias syriaca</i>	Common Milkweed	0.03	0.02	0.04%	0.17%	
	<i>Asclepias tuberosa</i>	Butterfly Milkweed	0.03	0.02	0.03%	0.14%	
	<i>Astragalus canadensis</i>	Canada Milkvetch	0.66	0.11	0.77%	0.79%	
	<i>Chamaecrista fasciculata</i>	Partridge Pea	0.30	0.30	0.35%	2.26%	
	<i>Coreopsis palmata</i>	Prairie Coreopsis	0.14	0.04	0.16%	0.28%	
	<i>Dalea candida</i>	White Prairie Clover	3.53	0.51	4.16%	3.82%	
	<i>Dalea purpurea</i>	Purple Prairie Clover	4.96	0.75	5.84%	5.66%	
	<i>Liatris aspera</i>	Rough Blazing Star	0.07	0.01	0.08%	0.09%	
	<i>Lupinus perennis</i>	Wild Lupine	0.01	0.02	0.01%	0.17%	
	<i>Monarda punctata</i>	Spotted Bee Balm	0.50	0.02	0.58%	0.11%	
	<i>Penstemon grandiflorus</i>	Large-flowered Beardtongue	0.19	0.04	0.23%	0.28%	
	<i>Pycnanthemum virginianum</i>	Vignia Mountain Mint	1.21	0.02	1.43%	0.11%	
	<i>Ratibida columnifera</i>	Long-headed Coneflower	2.43	0.16	2.86%	1.19%	
	<i>Rudbeckia hirta</i>	Black-eyed Susan	8.11	0.24	9.54%	1.81%	
	<i>Solidago nemoralis</i>	Gray Goldenrod	0.83	0.01	0.97%	0.06%	
	<i>Solidago ptarmicoides</i>	Upland White Goldenrod	0.71	0.03	0.83%	0.23%	
	<i>Symphoricarpos lateriflorus</i>	Calico Aster	1.38	0.02	1.62%	0.11%	
	<i>Symphoricarpos humilis</i>	Sky Blue Aster	0.88	0.03	1.04%	0.23%	
	<i>Tradescantia bracteata</i>	Prairie Spiderwort	0.05	0.01	0.06%	0.10%	
	<i>Verbena stricta</i>	Hoary Vervain	0.77	0.08	0.91%	0.57%	
	<i>Zizia aurea</i>	Golden Alexanders	1.21	0.30	1.43%	2.26%	
			Total Guild:	34.50	3.04	40.60%	22.63%
Graminoid	<i>Bouteloua curtipendula</i>	Sideoats Grama	8.26	3.75	9.73%	28.30%	
	<i>Bouteloua gracilis</i>	Blue Grama	9.55	0.65	11.24%	4.91%	
	<i>Bromus kalmii</i>	Prairie Brome	0.73	0.25	0.86%	1.89%	
	<i>Carex brevior</i>	Plains Oval Sedge	3.20	0.30	3.76%	2.26%	
	<i>Elymus trachycaulus</i>	Slender Wheatgrass	1.52	0.60	1.79%	4.53%	
	<i>Elymus villosus</i>	Silky Wild Rye	1.21	0.60	1.43%	4.53%	
	<i>Koeleria macrantha</i>	June Grass	3.67	0.05	4.32%	0.38%	
	<i>Schizachyrium scoparium</i>	Little Bluestem	22.04	4.00	25.93%	30.19%	
	<i>Sporobolus heterolepis</i>	Prairie Dropseed	0.29	0.05	0.35%	0.38%	
			Total Guild:	50.47	10.25	59.41%	77.37%
			TOTAL SEED MIX	84.97	13.29	100%	100%



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 ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

KYLE D. CRAWFORD DATE: 02/18/2025 LICENSE #54906

DATE	NO.	DESCRIPTION
02/18/2025	1	IFPR - ISSUED FOR PERMIT REVIEW
	2	
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	5	
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DESIGNED BY: ERK
DRAWN BY: BMP
CHECKED BY: KDC
EOR JOB #1518-0020



LANDFILL SOLAR
RAMSEY, ANOKA COUNTY, MINNESOTA

CEDAR CREEK ENERGY RAMSEY, MINNESOTA, 55303

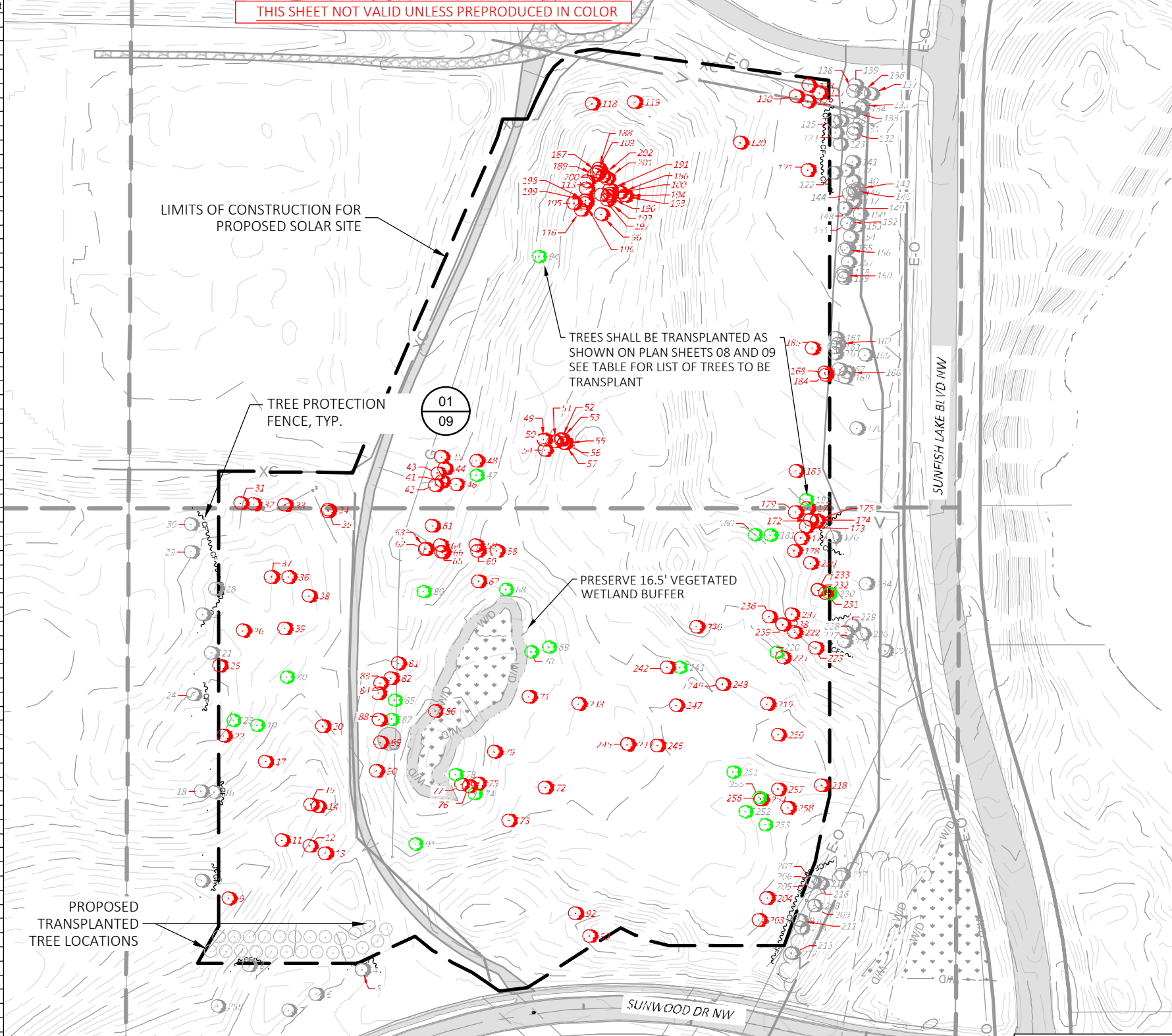
RESTORATION NOTES

SHEET 09 OF 11

Plot Date: 02/15/2025
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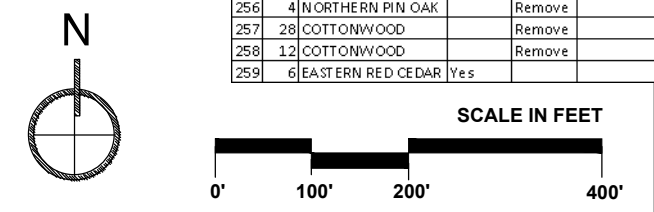
RD	DBH	SPECIES	Preserve	Remove	Transplant
4	5	EASTERN RED CEDAR	Yes		
5	5	EASTERN RED CEDAR	Yes		
6	11	EASTERN RED CEDAR	Yes		
7	17	BLACK CHERRY	Yes		
8	9	EASTERN RED CEDAR	Yes		
9	7	NORTHERN PIN OAK		Remove	
10	10	EASTERN RED CEDAR	Yes		
11	9	EASTERN RED CEDAR		Remove	
12	13	EASTERN RED CEDAR		Remove	
13	5	EASTERN RED CEDAR		Remove	
14	5	EASTERN RED CEDAR		Remove	
15	10	EASTERN RED CEDAR		Remove	
16	5	EASTERN RED CEDAR	Yes		
17	5	EASTERN RED CEDAR		Remove	
18	5	EASTERN RED CEDAR	Yes		
19	4	EASTERN RED CEDAR	Yes		Transplant
20	9	EASTERN RED CEDAR		Remove	
21	5	EASTERN RED CEDAR	Yes		
22	5	EASTERN RED CEDAR		Remove	
23	4	EASTERN RED CEDAR	Yes		Transplant
24	4	EASTERN RED CEDAR	Yes		
25	5	EASTERN RED CEDAR		Remove	
26	8	EASTERN RED CEDAR		Remove	
27	29	BUR OAK	Yes		
28	24	BUR OAK (DEAD)		Exempt	
29	28	BUR OAK	Yes		
30	32	BUR OAK	Yes		
31	15	RED PINE		Remove	
32	16	RED PINE		Remove	
33	35	BUR OAK		Remove	
34	4.5	EASTERN RED CEDAR		Remove	
35	7	EASTERN RED CEDAR		Remove	
36	7	EASTERN RED CEDAR		Remove	
37	5	EASTERN RED CEDAR		Remove	
38	5	EASTERN RED CEDAR		Remove	
39	4.5	EASTERN RED CEDAR		Remove	
40	4	EASTERN RED CEDAR	Yes		Transplant
41	16	BUR OAK		Remove	
42	23	BUR OAK		Remove	
43	24	BUR OAK		Remove	
44	21	BUR OAK		Remove	
45	5	BUR OAK		Remove	
46	5.5	EASTERN RED CEDAR		Remove	
47	4	EASTERN RED CEDAR	Yes		Transplant
48	7	EASTERN RED CEDAR		Remove	
49	4.5	EASTERN RED CEDAR		Remove	
50	4.5	EASTERN RED CEDAR		Remove	
51	12	BUR OAK		Remove	
52	6.5	BUR OAK		Remove	
53	10	BUR OAK		Remove	
54	34	BUR OAK		Remove	
55	13	BUR OAK		Remove	
56	19	BUR OAK		Remove	
57	5	EASTERN RED CEDAR		Remove	
58	25	COTT ONWOOD		Remove	
59	28	COTT ONWOOD		Remove	
60	9	COTT ONWOOD		Remove	
61	6	EASTERN RED CEDAR		Remove	
62	10	COTT ONWOOD		Remove	
63	10	COTT ONWOOD		Remove	
64	9	COTT ONWOOD		Remove	
65	9	COTT ONWOOD		Remove	
66	12	COTT ONWOOD		Remove	
67	5	EASTERN RED CEDAR		Remove	
68	4	EASTERN RED CEDAR	Yes		Transplant
69	4	EASTERN RED CEDAR	Yes		Transplant
70	4	EASTERN RED CEDAR	Yes		Transplant
71	6	EASTERN RED CEDAR		Remove	
72	12	EASTERN RED CEDAR		Remove	
73	11	EASTERN RED CEDAR		Remove	
74	4	EASTERN RED CEDAR	Yes		Transplant
75	4.5	EASTERN RED CEDAR		Remove	
76	4.5	EASTERN RED CEDAR		Remove	
77	4.5	EASTERN RED CEDAR		Remove	
78	4	EASTERN RED CEDAR	Yes		Transplant
79	5	EASTERN RED CEDAR		Remove	
80	4	EASTERN RED CEDAR	Yes		Transplant

RD	DBH	SPECIES	Preserve	Remove	Transplant
81	5	EASTERN RED CEDAR		Remove	
82	5	EASTERN RED CEDAR		Remove	
83	4	EASTERN RED CEDAR		Remove	
84	6	EASTERN RED CEDAR		Remove	
85	4.5	EASTERN RED CEDAR	Yes		Transplant
86	4.5	EASTERN RED CEDAR		Remove	
87	4	EASTERN RED CEDAR	Yes		Transplant
88	4.5	EASTERN RED CEDAR		Remove	
89	NA	CREeping JUNIPER	Yes		
90	5	EASTERN RED CEDAR		Remove	
91	4	EASTERN RED CEDAR	Yes		Transplant
92	9	EASTERN RED CEDAR		Remove	
93	5	EASTERN RED CEDAR		Remove	
94	4	EASTERN RED CEDAR	Yes		Transplant
96	10	COTT ONWOOD		Remove	
100	16	COTT ONWOOD		Remove	
103	9	COTT ONWOOD		Remove	
113	18	COTT ONWOOD		Remove	
116	11	COTT ONWOOD		Remove	
118	5	EASTERN RED CEDAR		Remove	
119	6	EASTERN RED CEDAR		Remove	
120	12	EASTERN RED CEDAR		Remove	
121	4.5	EASTERN RED CEDAR		Remove	
122	5	EASTERN RED CEDAR	Yes		
123	5	EASTERN RED CEDAR	Yes		
124	4.5	EASTERN RED CEDAR	Yes		
125	5.5	EASTERN RED CEDAR	Yes		
126	4	EASTERN RED CEDAR	Yes		
127	5.5	RED PINE		Remove	
128	6.5	EASTERN RED CEDAR		Remove	
129	5	EASTERN RED CEDAR		Remove	
130	5.5	EASTERN RED CEDAR		Remove	
131	7.5	BLACK SPRUCE	Yes		
132	7.5	BLUE SPRUCE	Yes		
133	17	EASTERN RED CEDAR	Yes		
134	12	EASTERN RED CEDAR	Yes		
135	8	EASTERN RED CEDAR	Yes		
136	10	EASTERN RED CEDAR	Yes		
137	12	EASTERN RED CEDAR	Yes		
138	8	EASTERN RED CEDAR	Yes		
139	8	EASTERN RED CEDAR	Yes		
140	20	EASTERN RED CEDAR	Yes		
141	4	EASTERN RED CEDAR	Yes		
142	9	EASTERN RED CEDAR	Yes		
143	12	EASTERN RED CEDAR	Yes		
144	7.5	EASTERN RED CEDAR	Yes		
145	12	EASTERN RED CEDAR	Yes		
146	6.5	EASTERN RED CEDAR	Yes		
147	13	EASTERN RED CEDAR	Yes		
148	6	EASTERN RED CEDAR	Yes		
149	7	EASTERN RED CEDAR	Yes		
150	8.5	EASTERN RED CEDAR	Yes		
151	4	EASTERN RED CEDAR	Yes		
152	7	EASTERN RED CEDAR	Yes		
153	5.5	EASTERN RED CEDAR	Yes		
154	7	EASTERN RED CEDAR	Yes		
155	9	EASTERN RED CEDAR	Yes		
156	6	EASTERN RED CEDAR	Yes		
157	8	EASTERN RED CEDAR	Yes		
158	8	EASTERN RED CEDAR	Yes		
159	9	EASTERN RED CEDAR	Yes		
160	14	EASTERN RED CEDAR	Yes		
161	4	EASTERN RED CEDAR	Yes		
162	4	EASTERN RED CEDAR	Yes		
163	4.5	EASTERN RED CEDAR	Yes		
164	15	EASTERN RED CEDAR	Yes		
165	4	EASTERN RED CEDAR	Yes		
166	4	EASTERN RED CEDAR	Yes		
167	4.5	EASTERN RED CEDAR	Yes		
168	5	EASTERN RED CEDAR		Remove	
169	4	EASTERN RED CEDAR	Yes		
170	4	EASTERN RED CEDAR	Yes		
171	37	BUR OAK		Remove	
172	28	BUR OAK		Remove	
173	21	BUR OAK		Remove	
174	4	BUR OAK		Remove	
175	5.5	BUR OAK		Remove	
176	5	EASTERN RED CEDAR	Yes		
177	4.5	EASTERN RED CEDAR		Remove	
178	5	EASTERN RED CEDAR		Remove	
179	4.5	EASTERN RED CEDAR		Remove	
180	4	EASTERN RED CEDAR	Yes		Transplant
181	4	EASTERN RED CEDAR	Yes		Transplant
182	4	EASTERN RED CEDAR	Yes		Transplant



- NOTES:
- ALL SPECIES OF OAK WITH A DBH OF 4" OR GREATER; ALL CONIFEROUS SPECIES WITH A DBH OF 4" OR GREATER; AND ALL OTHER TREES WITH A DBH OF 8" OR GREATER WERE SURVEYED WITHIN 30' OF PROPOSED CONSTRUCTION LIMITS. TREES BEYOND THAT EXTENT WITHIN THE PROPERTY WERE NOT SURVEYED.
 - #89 CREEPING JUNIPER IDENTIFIED ON SITE IS NOT INCLUDED IN CALCULATIONS BUT WILL BE PRESERVED AND PROTECTED THROUGHOUT CONSTRUCTION.
 - #28 BUR OAK IS DEAD AND WAS NOT INCLUDED IN THE CALCULATIONS.

Total Significant Trees on Site =	2160.5
Total Inches Removed =	1465.5
Removed Significant Tree Inches / Total Significant Tree Inches =	67.83%



RD	DBH	SPECIES	Preserve	Remove	Transplant
183	5	EASTERN RED CEDAR		Remove	
184	5.5	EASTERN RED CEDAR		Remove	
185	4.5	EASTERN RED CEDAR		Remove	
186	9	COTT ONWOOD		Remove	
187	11	COTT ONWOOD		Remove	
188	12	COTT ONWOOD		Remove	
189	13	COTT ONWOOD		Remove	
190	11	COTT ONWOOD		Remove	
191	9	COTT ONWOOD		Remove	
192	12	COTT ONWOOD		Remove	
193	10	COTT ONWOOD		Remove	
194	12	COTT ONWOOD		Remove	
195	8	COTT ONWOOD		Remove	
196	10	COTT ONWOOD		Remove	
197	20	COTT ONWOOD		Remove	
198	16	COTT ONWOOD		Remove	
199	13	COTT ONWOOD		Remove	
200	12	COTT ONWOOD		Remove	
201	27	COTT ONWOOD		Remove	
202	12	COTT ONWOOD		Remove	
203	18	COTT ONWOOD		Remove	
204	13	COTT ONWOOD		Remove	
205	4.5	EASTERN RED CEDAR	Yes		
206	4.5	EASTERN RED CEDAR	Yes		
207	4	EASTERN RED CEDAR	Yes		
208	6	EASTERN RED CEDAR	Yes		
209	5	EASTERN RED CEDAR	Yes		
210	5.5	EASTERN RED CEDAR	Yes		
211	4	EASTERN RED CEDAR	Yes		
212	5.5	EASTERN RED CEDAR	Yes		
213	25	BUR OAK	Yes		
214	22	BUR OAK	Yes		
215	10	NORTHERN PIN OAK	Yes		
216	9	NORTHERN PIN OAK	Yes		
217	18	NORTHERN PIN OAK	Yes		
218	5	EASTERN RED CEDAR		Remove	
219	4.5	EASTERN RED CEDAR		Remove	
220	4	EASTERN RED CEDAR	Yes		Transplant
221	4.5	EASTERN RED CEDAR		Remove	
222	6.5	EASTERN RED CEDAR		Remove	
223	4.5	EASTERN RED CEDAR		Remove	
224	6	EASTERN RED CEDAR	Yes		
225	4.5	EASTERN RED CEDAR	Yes		
226	4	EASTERN RED CEDAR	Yes		
227	4	EASTERN RED CEDAR	Yes		
228	4	EASTERN RED CEDAR	Yes		
229	4.5	EASTERN RED CEDAR	Yes		
230	4	EASTERN RED CEDAR	Yes		Transplant
231	5.5	EASTERN RED CEDAR		Remove	
232	5	EASTERN RED CEDAR		Remove	
233	5.5	EASTERN RED CEDAR		Remove	
234	4.5	EASTERN RED CEDAR	Yes		
235	4.5	EASTERN RED CEDAR		Remove	
236	4.5	EASTERN RED CEDAR		Remove	
237	6	EASTERN RED CEDAR		Remove	
238	6.5	EASTERN RED CEDAR		Remove	
239	4.5	EASTERN RED CEDAR		Remove	
240	5	EASTERN RED CEDAR		Remove	
241	4	EASTERN RED CEDAR	Yes		Transplant
242	4.5	EASTERN RED CEDAR		Remove	
243	7	EASTERN RED CEDAR		Remove	
244	40	COTT ONWOOD		Remove	
245	12	COTT ONWOOD		Remove	
246	28	COTT ONWOOD		Remove	
247	4.5	EASTERN RED CEDAR		Remove	
248	6	EASTERN RED CEDAR		Remove	
249	4	EASTERN RED CEDAR		Remove	
250	36	COTT ONWOOD		Remove	
251	4	EASTERN RED CEDAR	Yes		Transplant
252	4	EASTERN RED CEDAR	Yes		Transplant
253	4	EASTERN RED CEDAR	Yes		Transplant
254	7	EASTERN RED CEDAR		Remove	
255	4	EASTERN RED CEDAR	Yes		Transplant
256	4	NORTHERN PIN OAK		Remove	
257	28	COTT ONWOOD		Remove	
258	12	COTT ONWOOD		Remove	
259	6	EASTERN RED CEDAR	Yes		

EOR ecology community
EMMONS & OLIVIER RESOURCES, INC.
1919 JUV. AVL. W. #300 S1. PAUL, MN
ILL: 651.770.8449 WWW.LOHINC.COM

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 ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

KYLE D. CRAWFORD DATE: 02/18/2025 LICENSE #54906

DATE	NO.	DESCRIPTION
02/18/2025	1	IFPR - ISSUED FOR PERMIT REVIEW
	2	
	3	
	4	
	5	
	6	

DESIGNED BY: ERK
DRAWN BY: BMP
CHECKED BY: KDC
EOR JOB #1518-0020

LANDFILL SOLAR
RAMSEY, ANOKA COUNTY, MINNESOTA
CEDAR CREEK ENERGY RAMSEY, MINNESOTA, 55303

TREE PRESERVATION PLAN
SHEET 05 OF 11



Vegetation Management Plan for
Connexus Landfill

Prepared February 2025 by:



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1. Connexus Landfill Vegetation Management Plan (VMP) Overview

1.1. Site Developer

Cedar Creek Energy
3155 104th LN NE
Blaine, MN 5549
763.450.9763

1.2. Vegetation Restoration Consultant

Natural Resource Services, Inc
2885 Quail Road NE
Sauk Rapids, MN 56379
320.290.5363

and

16425 W. State Route 90
Princeville, IL 61559

1.3. Project Description

The proposed Connexus Landfill project is a 4.125 MW AC project planned for approximately 26.21 acres of solar footprint in Anoka County, Ramsey, Minnesota. Tracker-style panels with approximately 24” ground clearance at max tilt and above-ground drivelines are planned.

Some tree removal will be set forth to avoid hindering the productivity of solar panels. An existing tree line on the northern, eastern, and parts of the western end of the site will provide vegetative screening. One wetland has been delineated and identified within the fenced project area. The site will be planted with a fully-native pollinator mix to achieve the Habitat Friendly Solar status as defined by the Board of Water and Soil Resources.¹ An uncommon MN native plant species, creeping juniper, has also been identified on site. Any possible future herbicide applications will be done so in a manner to maintain a 5-foot buffer around this species.

1.4. VMP Use and Objectives

The VMP was written to provide a brief overview and description of the project and to act as a guide for vegetation installation and management. It has been custom-written based on information known at the time of writing. The VMP should be treated as a living document and adjusted as additional information about the site is gathered both pre and post construction. A qualified native vegetation contractor with a history of success working on native vegetation restorations should be contracted to implement the procedures outlined in this document and to provide feedback and suggestions for the VMP during the lifespan of the project.

¹<https://www.revisor.mn.gov/statutes/cite/216B.1642>

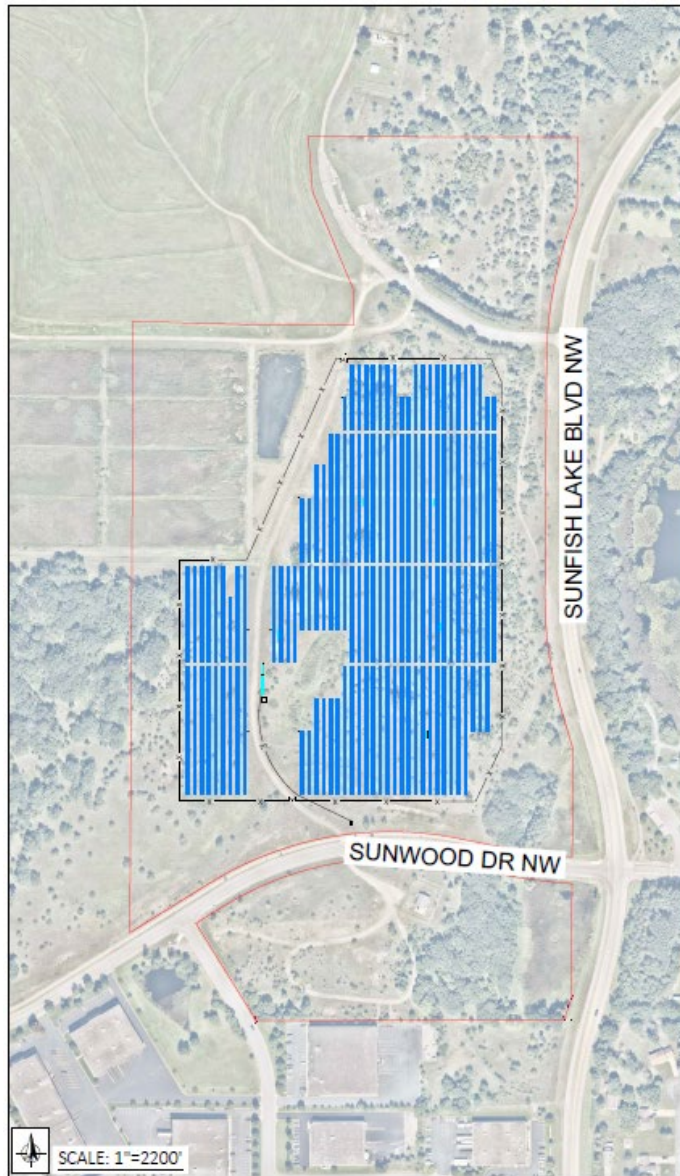
2. Site Information

2.1. Site Location

The Connexus Landfill project site is located on the west side of the intersection of Sunwood Dr. NW and Sunfish Lake Blvd NW. It is found approximately 1.25 miles to the northeast of the Mississippi River and less than ¼ of a mile to the West of Sunfish Lake in Ramsey township. The GPS coordinates of Connexus Landfill are 45.236828, -93.429691.



2.2. Map of Array Layout



2.3. Site Conditions

A review of historical aerial photos shows that a majority of the site has been minimally disturbed over the past 30 years. Over time, the presence of trees and shrubs has grown and the delineated wetlands can be observed. A review of the soils on the USDA/NRCS Web Soil Survey shows excessively drained soils; 55% of the site is ecologically classified as Hubbard loamy sand, 35% as a gravel-Udipsamments complex, and the remaining 10% as Nymore loamy coarse sand.

3. Overview of Vegetation Establishment and Management

3.1. Vegetative Goals

The primary vegetative goal is to establish permanent vegetation that does not interfere with solar production. This solar site is being planted with 100% native species. The species chosen produce an emphasis on native pollinator habitat to achieve and maintain the Habitat Friendly Solar status.

3.2. Contribution of Native Habitat on Solar Sites

Economical production of power is the foremost goal of solar sites. There is a parallel opportunity to provide critically important native pollinator-friendly habitat throughout the array while capitalizing on the long-term low maintenance needs of native vegetation.

Establishing prairies and other native plant communities within the confines of solar sites provides a tremendous opportunity to restore ecosystems that have been severely degraded or eliminated across all areas of the country.

Native plants have profound root systems, many reaching 12 or more feet deep into the soil. Rainwater follows those roots into the ground, helping to reduce water runoff and promote the drainage of standing water into an aquifer. Those deep roots also stabilize the soil, preventing erosion from rain and wind. The plants provide seeds for songbirds, cover for game birds and, of course, provide blossoms and host plants for our beloved butterflies and other nectar-loving insects.

Native grasses and forbs will be selected based on their ecological appropriateness to the specific conditions of this site, with consideration to their mature height to not interfere with panel productivity. These species will not require irrigation, fertilizer, or other soil amendments.

The contribution to habitat restoration cannot be overstated given the acreage impacted and lifespan of the project.



3.3. Vegetation Installation Overview

The native mix planned for this array is selected for ecological appropriateness to the soil types, moisture, and conditions as well as the mature plant height of 24” to 36” so as to not interfere with panel productivity. The habitat provides low-maintenance vegetation that won’t require fertilizer, amended soils or irrigation on this site.

It is important to note that the species selected for this site are based on their ability to successfully establish from seed and thrive within the unique conditions found on solar sites. From a practical standpoint, the species contained in these mixes are generally available in the marketplace and, as a whole, have reasonable price points. Ultimately, the list consists of well-performing, workhorse species coupled with smaller amounts of more unique species for a robust mixture.

3.4. Vegetation Management Overview

Maintenance plays a vital role in the eventual success of any native landscape installation, especially during the establishment period of years one through three. Active management is similar in all areas of the project site. All areas of the site are inspected annually followed by maintenance necessary to encourage healthy native species while discouraging non-native/invasive species. During the growing season of the first year of establishment, the site shall be inspected a minimum of three times.



4. Vegetation Installation Procedures

4.1. Site Inspections and Monitoring

Site inspections and monitoring throughout the installation process are vital to continually assess site conditions and determine what procedures are needed and the timing of those procedures. The pre-construction site inspection is particularly important to determine the need for any herbicide application or mowing prior to soil preparation and seeding.

4.2. Site Preparation Herbicide Application

A site preparation herbicide application, if deemed necessary, should be performed by a licensed, qualified contractor using appropriate herbicides to kill all actively growing weeds on the project site. Typically, only glyphosate herbicide is necessary, but if certain perennial weed species are present such as Canada thistle, a broadleaf additive may be necessary. The contractor should carefully select an herbicide with a short soil residual, such as Garlon 3A, to minimize the impact on germination of the permanent seeding. The vegetation should not be disturbed for a minimum of 14 days after an herbicide application to allow time for effective weed elimination.

4.3. Site Preparation Mowing

Site preparation mowing may be required to reset vegetative growth to prepare for an herbicide application. Additionally, site preparation mowing may be needed to cut and mulch vegetation to simplify the soil preparation and seeding process.

4.4. Soil and Seedbed Preparation

Soil and seedbed preparation is vital to the success of any planting. Disking and harrowing (or raking) the site is common and extremely effective. If extreme compaction is present on site, a ripper may be needed to mitigate the compaction. The seedbed should be relatively smooth and firm prior to seeding. Soil that is too clumpy or too fluffy may result in seeds being planted too deep in the soil to germinate and survive.

4.5. Seed and Seeding

A custom native pollinator seed mix has been designed for use on this project and is found in Section 8. Seeding will be completed through broadcasting by using a mechanical spreader appropriate for the specified seed mixes. Large and fluffy seeds (such as most grasses and cover crop) should be broadcast first and then lightly harrowed/raked into the soil. Following the harrowing, small seeds (such as most forbs, sedges, and rushes) should be broadcast on top of the soil.

4.6. Erosion control

Erosion control measures should be implemented as required after permanent seeding is completed.

5. Vegetation Management Procedures

5.1. Adaptive Management

An adaptive management strategy is vital to the success of any project, but especially so for native pollinator restorations. Adaptive management consists of continual monitoring and adjusting maintenance strategies based on the site conditions in order to achieve the best outcomes. No two sites are exactly the same and responding to changing site conditions, weed pressures, weather, and a multitude of other variables is essential to the success of the planting.

5.2. Complete Site Maintenance Mowing

Complete site maintenance mowing consists of mowing the entire project area during the growing season, including trimming as appropriate around equipment or in inaccessible areas. Complete site maintenance mowing is implemented primarily during the establishment phase of the restoration (years 1-3) for several reasons. First, if a closed canopy of vegetation develops, mowing is implemented to knock back the taller vegetation and allow sunlight to reach the native seedlings below. Second, if weed species are present and actively nearing their seed set, mowing is implemented to prevent those weeds from producing viable seed. Third, vegetation has become tall enough to shade the panels or impact other solar equipment on site and must be cut down.

5.3. Integrated Vegetation Maintenance

Integrated vegetation maintenance or IVM is a method using a combination of targeted mowing/trimming and herbicide application aimed at reducing or eliminating weed species and promoting the desired vegetation. IVM can also include grazing, haying, and other maintenance options as appropriate. IVM is implemented starting towards the end of the 2nd full growing season typically and is used throughout the life of the project. 3 IVM visits are typical on most sites until year 5 when a reduction to 1-2 visits per year can be made if site conditions allow.

5.4. Dormant Mowing

Dormant mowing is a type of complete site mow implemented when vegetation is not actively growing on site. This method is typically performed in early spring or fall. Oftentimes, dormant mows are completed in the fall to mulch up dead vegetation and encourage decomposition. This practice also has a dual purpose of cleaning up the site to make electrical maintenance easier and to reduce the chance of accidental fire.

6. Vegetation Installation and Management Timeline

6.1. Site Prep and Installation Phase

Site Preparation:

1. Prior to the start of construction, a cover crop may be seeded to aid in erosion control, soil moisture management, and weed suppression.
2. Inspection of the project area to assess site conditions and determine the need for any site prep mowing or spraying activities.
3. If necessary, an herbicide application will be completed using glyphosate (Round-up® or equivalent) as per manufacturer's directions in areas with actively growing vegetation. Allow a minimum of 14 days before disturbing the soil or completing seeding activities.
4. When perennial broadleaf vegetation is present a triclopyr herbicide will be added (Garlon 3A® or equivalent) as per manufacturer's directions. When a broadleaf herbicide is used allow a minimum of 30 days before disturbing the site or completing seeding.
5. Depending on the density and type of undesirable vegetation present (i.e., annual vs perennial) a complete site mowing might be advisable in lieu of an herbicide application. For instance, if the site is dominated by Foxtail (an annual), mowing would be preferable to an herbicide application.

Soil Prep and Seeding:

1. Construction debris, garbage, and building materials will be removed and/or staged outside the intended seeding areas.
2. Disk soil within the project area in preparation for seeding. Harrow or rake the soil to achieve the proper seedbed.
3. Broadcast the large and fluffy seed (mostly grasses) along with a cover crop of winter wheat or oats.
4. Harrow or rake the soil to work the seed to a proper depth.
5. Broadcast the small seeds (forbs, sedges, rushes, small grass seeds) on top of the soil.

Installation Phase Maintenance

If the site is seeded in the summer or early fall, 1-2 complete site mowings may be needed during this first partial growing season.

6.2. Establishment Phase

Year 1 is defined as the 1st full growing season for the vegetation. A recommendation of 3 complete site mowings is most common for this phase. Depending on site conditions and vegetation growth, more or less may be needed.

Year 2 is the second full growing season. 3 total visits are typical with 2 complete site mowings and 1 Integrated Vegetation Maintenance visit the most likely combination.

Year 3 typically requires 3 IVM site visits depending on vegetation status.


6.3. Maintenance Phase

Year 4 – 34. During the maintenance phase, 2 IVM visits are typical.

7. Monitoring

Consistent project monitoring is essential to evaluate vegetative establishment, weed presence, and possible erosion concerns. This information helps determine which management procedures to utilize, the proper timing for those procedures, and whether any other remedial action is required such as reseeding or replanting. As the site's vegetation matures, adaptive management should be utilized as previously described.

8. Seed Mix

		<h3>Connexus Landfill Native Mix</h3> <p>Seeding Rate - 13.25 lb/acre - 85 seeds/ft²</p>				
Common Name	Scientific Name	Bloom Month	% of Mix by Weight	Lbs/Acre	Seeds/ft ²	% of Mix by Seeds/ft ²
Sideoats Grama	<i>Bouteloua curtipendula</i>		28.30%	3.75	8.28	9.73%
Blue Grama	<i>Bouteloua gracilis</i>		4.91%	0.65	9.55	11.24%
Prairie Brome	<i>Bromus kalmii</i>		1.89%	0.25	0.73	0.86%
Plains Oval Sedge	<i>Carex brevior</i>		2.26%	0.30	3.20	3.76%
Slender Wheatgrass	<i>Elymus trachycaulus</i>		4.53%	0.60	1.52	1.79%
Silky Wild Rye	<i>Elymus villosus</i>		4.53%	0.60	1.21	1.43%
June Grass	<i>Koeleria macrantha</i>		0.38%	0.05	3.67	4.32%
Little Bluestem	<i>Schizachyrium scoparium</i>		30.19%	4.00	22.04	25.93%
Prairie Dropseed	<i>Sporobolus heterolepis</i>		0.38%	0.05	0.29	0.35%
Graminoid Total			77.36%	10.25	50.48	59.41%
Common Yarrow	<i>Achillea millefolium</i>	Jun-Aug	0.57%	0.08	4.91	5.78%
Anise Hyssop	<i>Agastache foeniculum</i>	Jun-Sep	0.09%	0.01	0.40	0.47%
Prairie Onion	<i>Allium stellatum</i>	Jul-Aug	0.11%	0.02	0.06	0.07%
Lead Plant	<i>Amorpha canescens</i>	Jun-Aug	1.30%	0.17	1.01	1.19%
Canada Anemone	<i>Anemone canadensis</i>	May-Jun	0.06%	0.01	0.02	0.03%
Wild Columbine	<i>Aquilegia canadensis</i>	Apr-Jun	0.06%	0.01	0.10	0.12%
Common Milkweed	<i>Asclepias syriaca</i>	Jun-Aug	0.17%	0.02	0.03	0.04%
Butterfly Milkweed	<i>Asclepias tuberosa</i>	Jun-Aug	0.14%	0.02	0.03	0.03%
Canada Milkvetch	<i>Astragalus canadensis</i>	Jun-Aug	0.79%	0.11	0.66	0.77%
Partridge Pea	<i>Chamaecrista fasciculata</i>	Jul-Sep	2.26%	0.30	0.30	0.35%
Prairie Coreopsis	<i>Coreopsis palmata</i>	Jun-Aug	0.28%	0.04	0.14	0.16%
White Prairie Clover	<i>Dalea candida</i>	Jun-Sep	3.82%	0.51	3.53	4.16%
Purple Prairie Clover	<i>Dalea purpurea</i>	Jul-Sep	5.66%	0.75	4.96	5.84%
Rough Blazing Star	<i>Liatris aspera</i>	Jul-Oct	0.09%	0.01	0.07	0.08%
Wild Lupine	<i>Lupinus perennis</i>	May-Jul	0.17%	0.02	0.01	0.01%
Spotted Bee Balm	<i>Monarda punctata</i>	Jul-Sep	0.11%	0.02	0.50	0.58%
Large-flowered Beardtongue	<i>Penstemon grandiflorus</i>	May-Jun	0.28%	0.04	0.19	0.23%
Virginia Mountain Mint	<i>Pycnanthemum virginianum</i>	Jun-Sep	0.11%	0.02	1.21	1.43%
Long-headed Coneflower	<i>Ratibida columnifera</i>	Jun-Aug	1.19%	0.16	2.43	2.86%
Black-eyed Susan	<i>Rudbeckia hirta</i>	Jun-Oct	1.81%	0.24	8.11	9.54%
Gray Goldenrod	<i>Solidago nemoralis</i>	Aug-Oct	0.06%	0.01	0.83	0.97%
Upland White Goldenrod	<i>Solidago ptarmicoides</i>	Jun-Sep	0.23%	0.03	0.71	0.83%
Calico Aster	<i>Symphotrichum lateriflorum</i>	Aug-Oct	0.11%	0.02	1.38	1.62%
Sky Blue Aster	<i>Symphotrichum oolentangiense</i>	Aug-Oct	0.23%	0.03	0.88	1.04%
Prairie Spiderwort	<i>Tradescantia bracteata</i>	May-Jul	0.10%	0.01	0.05	0.06%
Hoary Vervain	<i>Verbena stricta</i>	Jun-Sep	0.57%	0.08	0.77	0.91%
Golden Alexanders	<i>Zizia aurea</i>	Apr-Jun	2.26%	0.30	1.21	1.43%
Forb Total			22.64%	3.00	34.50	40.59%
Mix Total			100.00%	13.25	84.98	100.00%

Central MN Sandy Native Mix 02.2025

9. Pollinator Scorecard



Habitat Friendly Solar Site Assessment Form for Project Planning

For Solar Companies, Local Governments and Other Partners to Meet Habitat Friendly Solar Standards

Updated 12-22-23

Note: The use of state developed [solar seed mixes](#) over 70% of the plantable area of a site will result in automatically meeting the standard.

1) **PLANNED PERCENT OF PLANTABLE AREAS WITHIN PROJECT FOOTPRINT DOMINATED BY NATIVE SPECIES COVER** (forbs, grasses, sedges, rushes, ferns). PROJECTS MUST HAVE A GOAL OF AT LEAST 70% COVER OF NATIVE VEGETATION TO MEET HABITAT FRIENDLY SOLAR STANDARDS

<input type="checkbox"/> 70-84%	+15 points		
<input checked="" type="checkbox"/> 85% and above	+20 points	Total Points	<input type="text" value="20"/>

2) **PERCENT OF PROPOSED SITE VEGETATION COVER TO BE DOMINATED BY FORBS** (not grasses, sedges and rushes)

<input type="checkbox"/> 10-19%	+5 points		
<input type="checkbox"/> 20-29%	+10 points		
<input type="checkbox"/> 30-39%	+15 points		
<input checked="" type="checkbox"/> 40 and above	+15 points	Total Points	<input type="text" value="15"/>

Note: Projects may have "array" mixes and diverse border mixes; forb dominance should be averaged across the entire site. The dominance should be calculated from total numbers of forb seeds vs. grass seeds based on seeds per square foot (from all seed mixes to be planted).

3) **PLANNED COVER DIVERSITY** (# of species in seed mixes; numbers from upland and moist soil mixes can be combined)

<input type="checkbox"/> 10-19 species	+5 points		
<input type="checkbox"/> 20-25 species	+10 points		
<input checked="" type="checkbox"/> 26-39 species	+15 points		
<input type="checkbox"/> 40 and above	+20	Total Points	<input type="text" value="15"/>

4) **PLANNED SEASONS WITH AT LEAST THREE BLOOMING SPECIES** (check all that apply)

<input checked="" type="checkbox"/> Spring (April-May)	+4 points		
<input checked="" type="checkbox"/> Summer (June-August)	+3 points		
<input checked="" type="checkbox"/> Fall (September-October)	+3 points	Total Points	<input type="text" value="10"/>

See BWSR [pollinator toolbox](#) about bloom season

5) **SITE PLANNING**

<input checked="" type="checkbox"/> Detailed establishment and management plan (see notes)	+20 points		
<input checked="" type="checkbox"/> Seed Mixes are composed of at least 40 seeds per square foot	+5 points		
<input type="checkbox"/> All seed genetic origin is within 200 miles of site (see notes)	+5 points		
<input type="checkbox"/> At least .5% milkweed cover within each seed mix	+5 points		
<input checked="" type="checkbox"/> Plant species with more than 3 flower colors in mixes (see notes)	+5 points	Total Points	<input type="text" value="30"/>

6) **INSECTICIDE RISK**

<input type="checkbox"/> Planned on-site insecticide use (excluding buildings/electrical boxes, etc.)	-30 points		
<input type="checkbox"/> Communication with local chemical applicators/neighbors about need to prevent drift from adjacent areas.	+10 points	Total Points	<input type="text" value=""/>

GRAND TOTAL


Gold Standard 85+ points
Meets Standard 70 points

Project Name: Connexus Landfill
Project County: Anoka
Project Size: 26.21 acres
Evaluation Date: 02/12/2025

See notes related to the questions on the back side of this form

10. Soils Maps





























 **Natural Resources Conservation Service**

Web Soil Survey
National Cooperative Soil Survey

2/10/2025
Page 1 of 5

MAP LEGEND

Area of Interest (AOI)	 Area of Interest (AOI)	Transportation	 Rails
Soils		 Interstate Highways	 US Routes
Soil Rating Polygons	 Hydric (100%)	 Major Roads	 Local Roads
 Hydric (66 to 99%)		Background	 Aerial Photography
 Hydric (33 to 65%)			
 Hydric (1 to 32%)			
 Not Hydric (0%)			
 Not rated or not available			
Soil Rating Lines			
 Hydric (100%)			
 Hydric (66 to 99%)			
 Hydric (33 to 65%)			
 Hydric (1 to 32%)			
 Not Hydric (0%)			
 Not rated or not available			
Soil Rating Points			
 Hydric (100%)			
 Hydric (66 to 99%)			
 Hydric (33 to 65%)			
 Hydric (1 to 32%)			
 Not Hydric (0%)			
 Not rated or not available			
Water Features			
 Streams and Canals			

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Anoka County, Minnesota
Survey Area Data: Version 22, Sep 7, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 29, 2023—Sep 13, 2023

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
D67A	Hubbard loamy sand, 0 to 2 percent slopes	1	1.3	5.5%
D67B	Hubbard loamy sand, 1 to 6 percent slopes	3	3.4	14.2%
D67C	Hubbard loamy sand, 2 to 12 percent slopes	0	7.5	31.2%
GP	Pits, gravel-Udipsamments complex	0	9.7	40.3%
NrD	Nymore loamy coarse sand, 12 to 25 percent slopes	0	2.1	8.9%
Totals for Area of Interest			24.0	100.0%

Environmental Policy Board (EPB)**Meeting Date:** 03/17/2025**Primary Strategic Plan Initiative:** Create a positive image for residential neighborhoods, business districts and key corridors.**Information****Title:**

Arbor Month Planting Activity

Purpose/Background:

As members of the Environmental Policy Board (EPB) may know, in Minnesota, Arbor Day is always observed on the last Friday in April. Additionally, the month of May is recognized as Arbor Month. This year, Staff from the Planning Division and Parks and Recreation Division are coordinating a planting activity in recognition of Arbor Day and Arbor Month. This planting event serves multiple purposes. First, it will satisfy the Arbor Day planting requirement necessary if the City of Ramsey intends to apply for recertification as a Tree City USA. Secondly, this planting activity will represent the first step in starting to replace lost canopy cover as a result of removing Emerald Ash Borer (EAB) infested ash trees from boulevard areas (7 EAB-infested ash trees were removed from the boulevard area over the 2022-2023 winter).

The planting activity will take place on Wednesday, May 14, 2025, beginning around 6pm. The tree planting will take place along 145th Avenue NW, just east of Rhinestone Street, in The COR (see the attached Site Location Map). Staff still needs to complete an assessment of the site to determine how many suitable planting locations exist along this boulevard (keeping in mind sufficient spacing between not only the trees themselves but also streetlights, street signs, and hydrants, trying to avoid replanting in the exact same locations as the previous trees, and staying out of the vision clearance triangle as defined in [City Code Section 106-322](#)), so that the correct number of trees can be ordered.

The intention is to have members of both the EPB and the Parks and Recreation Commission actively participate in this Arbor Month planting activity. However, since this activity will occur outside the EPB's regular meeting date, participation is optional.

Recommendation:

Staff would recommend EPB members plan to participate in the tree planting activity if available.

Outcome/Action:

No action is needed. This is for informational purposes only.

Attachments

Site Location Map

Form Review**Inbox**

Brian Hagen

Form Started By: Chris Anderson

Final Approval Date: 03/13/2025

Reviewed By

Brian Hagen

Date

03/13/2025 12:46 PM

Started On: 02/27/2025 03:23 PM

Site Location Map: Arbor Month Planting

