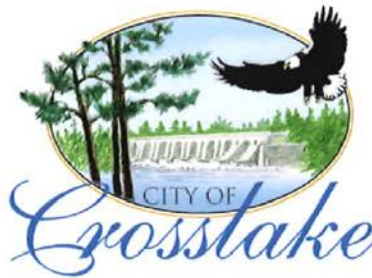


City Hall: 218-692-2688
Planning & Zoning: 218-692-2689
Fax: 218-692-2687



13888 Daggett Bay Rd
Crosslake, Minnesota 56442
www.cityofcrosslake.org

CITY OF CROSSLAKE

PLANNING COMMISSION/BOARD OF ADJUSTMENT

November 22, 2024

9:00 A.M.

Crosslake City Hall
13888 Daggett Bay Rd, Crosslake MN 56442
(218) 692-2689

PUBLIC HEARING NOTICE

Applicant: National Loon Center Foundation

Site Location: Off of Swann Dr & Pioneer Dr, Crosslake, MN 56442

Variance for:

- Building height of 49.8 feet where 30 feet is allowed

To construct:

- 7,000 square foot building foot print consisting of a three story commercial structure

Notification: Pursuant to Minnesota Statutes Chapter 462, and the City of Crosslake Zoning Ordinance, you are hereby notified of a public hearing before the City of Crosslake Planning Commission/Board of Adjustment. Property owners have been notified according to MN State Statute 462 & published in the local newspaper. Please share this notice with any of your neighbors who may not have been notified by mail.

Information: Copies of the application and all maps, diagrams or documents are available at Crosslake City Hall or by contacting the Crosslake Planning & Zoning staff at 218-692-2689. Please submit your comments in writing including your name and mailing address to Crosslake City Hall or (crosslakepz@cityofcrosslake.org).



STAFF REPORT

Property Owner/Applicant: National Loon Center Foundation

Parcel Number(s): 14210763, 104210614, 14210615, 14210608

Application Submitted: November 4, 2024

Action Deadline: January 2, 2025

City 60 Day Extension Letter sent / Deadline: NA / NA

Applicant Extension Received / Request: NA / NA

City Council Date: NA

Authorized Agent: Jon Mobeck, Nation Loon Center

Variance for:

- Building height of 49.8 feet where 30 feet is allowed

To construct:

- 7,000 square foot building foot print consisting of a three story commercial structure

Current Zoning: Downtown Commercial

Existing Impervious Coverage:

1.2%

- A stormwater management plan was submitted with the variance application
- City sewer connection will be utilized

Proposed Impervious Coverage:

21.0%

Parcel History:

- Pioneer Addition to Crosslake established in 2006
- Reed, William & Sharon 14210615 - 2006 Pioneer Addition to Crosslake Plat
- Reed, William & Sharon 14210614 – 2006 Pioneer Addition to Crosslake Plat
- National Loon Center Foundation 14210763:
 - 1989 – septic system installed
 - 1995 – storage shed 18x12
 - 2017 – Abandonment of septic system & well sealed
 - 2017 – Demo of building
 - 2019 – Denied variance for height of 40 feet at mid-peak & density of 60 residential units

Agencies Notified and Responses Received:

County Highway Dept: No comment received before packet cutoff date

DNR: Comment(s) received

City Engineer: No comment received before packet cutoff date

Lake Association: No comment received before packet cutoff date

Crosslake Public Works: No comment received before packet cutoff date

Crosslake Park, Recreation & Library: No comment received before packet cutoff date
Concerned Parties: No comment received before packet cutoff date

POSSIBLE MOTION:

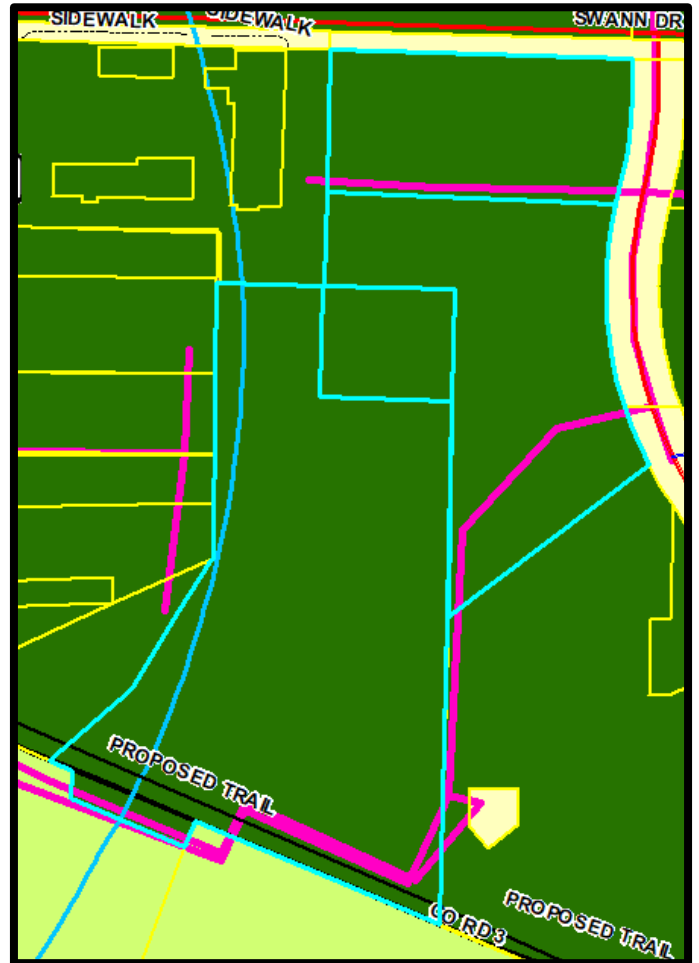
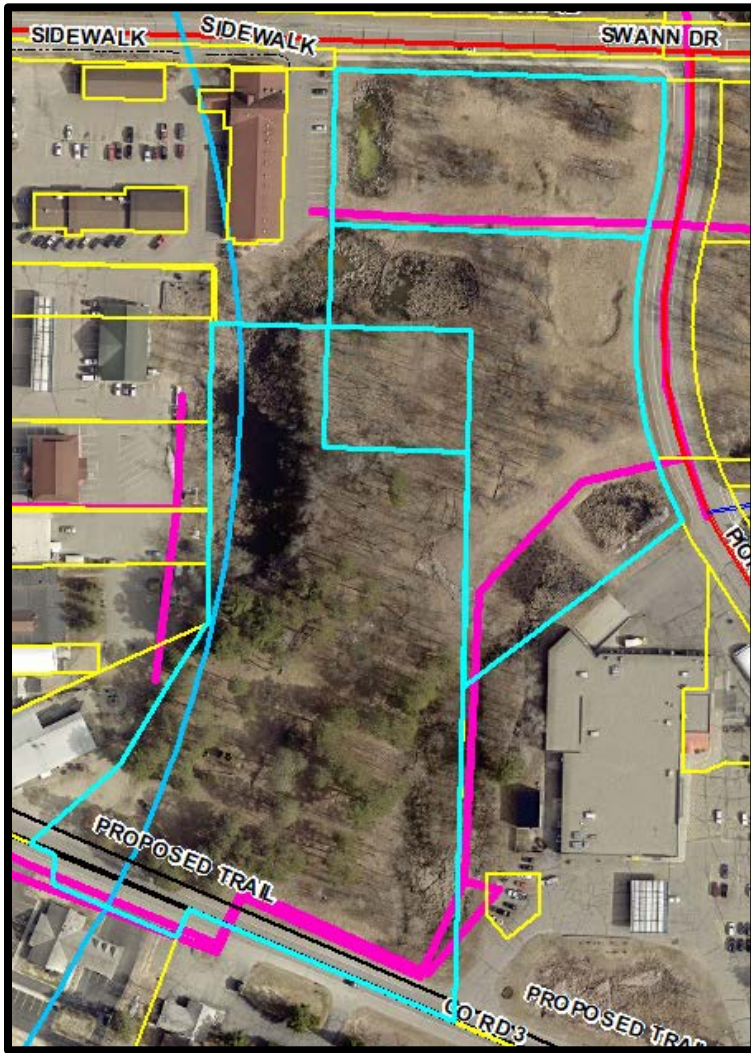
To approve/table/deny the variance to allow:

- Building height of 49.8 feet where 30 feet is allowed

To construct:

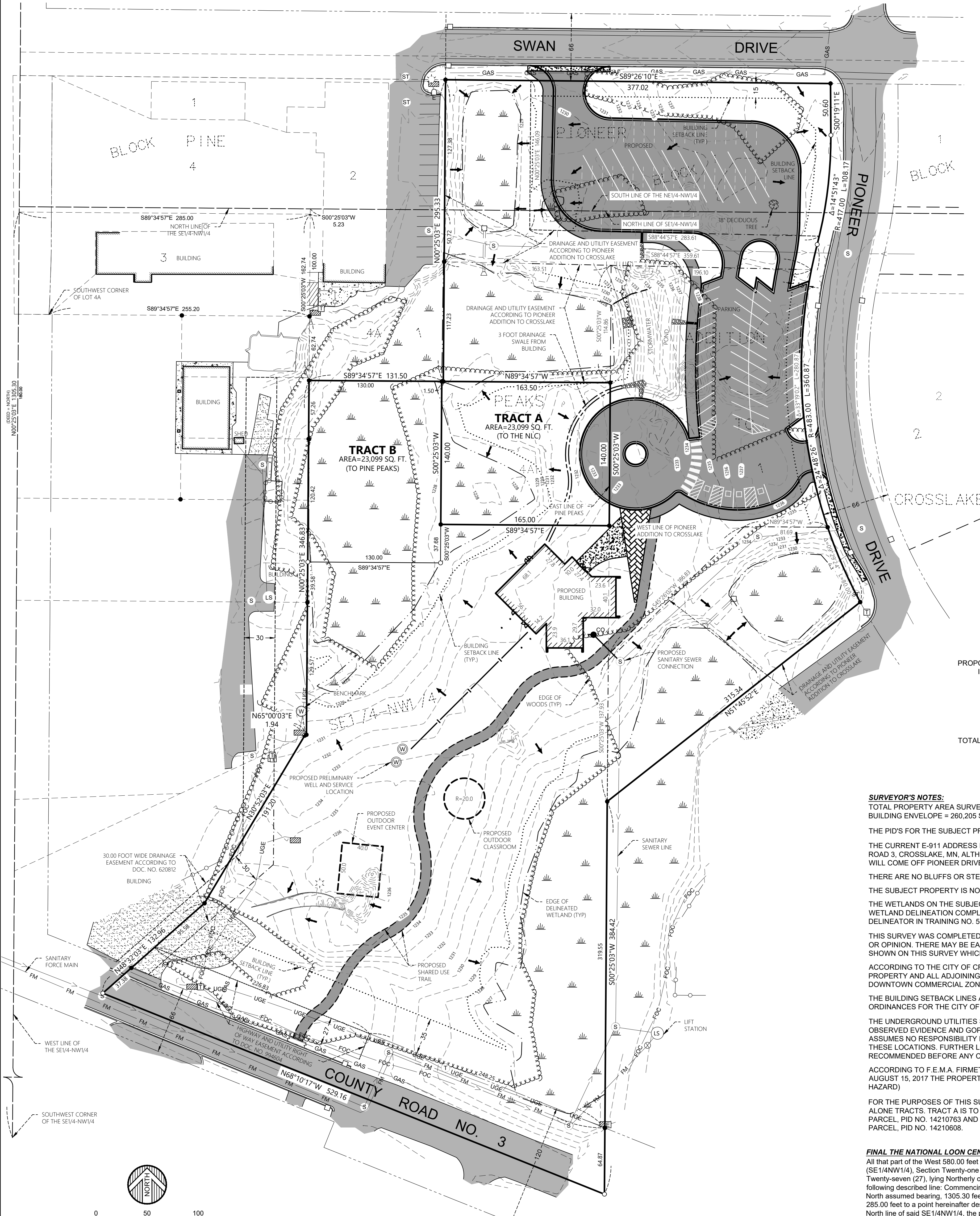
- 7,000 square foot building foot print consisting of a three story commercial structure

As shown on the certificate of survey dated 11-8-2024



CERTIFICATE OF SURVEY

LOTS 1 AND 2 BLOCK 1, PIONEER ADDITION TO CROSSLAKE,
AND PART OF THE SE1/4-NW1/4,
SECTION 21, TOWNSHIP 137, RANGE 27,
CROW WING COUNTY, MINNESOTA



IMPERVIOUS SURFACE CALCULATIONS:
TOTAL AREA = 399,602 SQ. FT. (9.17 ACRES)
LESS RW = 375,581 SQ. FT. (8.62 ACRES)

EXISTING CONDITIONS (LESS RW):
IMPERVIOUS COVERAGE = 4,525 SQ. FT.
GRAVEL = 4,525 SQ. FT.
IMPERVIOUS PERCENTAGE = 1.2 %
(4,525 / 375,581 = 0.0120)

PROPOSED CONDITIONS:
IMPERVIOUS COVERAGE = 83,902 SQ. FT.
BUILDING = 7,000 SQ. FT.
PAVEMENT AND CURB AND
GUTTER = 64,600 SQ. FT.
SIDEWALK = 2,645 SQ. FT.
TRAILS = 6,400 SQ. FT.
OUTDOOR CLASSROOM = 1,257 SQ. FT.
EVENT SPACE = 2,000 SQ. FT.
TOTAL IMPERVIOUS PERCENTAGE = 21%
(83,902 / 399,602 = 0.21)

SURVEYOR'S NOTES:
TOTAL PROPERTY AREA SURVEYED = 9.2 ACRES
BUILDING ENVELOPE = 260,205 SQ. FT. (5.97 ACRES)
THE PID'S FOR THE SUBJECT PROPERTY ARE 14210763, 14210614 AND 14210615.
THE CURRENT E-911 ADDRESS FOR THE SUBJECT PROPERTY IS 35463 COUNTY ROAD 3, CROSSLAKE, MN, ALTHOUGH FOR FUTURE IMPROVEMENTS SITE ACCESS WILL COME OFF PIONEER DRIVE OR SWAN DRIVE.
THERE ARE NO BLUFFS OR STEEP SLOPES ON THE SUBJECT PROPERTY.
THE SUBJECT PROPERTY IS NON-RIPARIAN.
THE WETLANDS ON THE SUBJECT PROPERTY ARE SHOWN ACCORDING TO THE WETLAND DELINEATION COMPLETED BY DUNCAN WIDMANN, CERTIFIED WETLAND DELINEATOR IN TRAINING NO. 5359, ON SEPTEMBER 12, 2024
THIS SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF A TITLE COMMITMENT OR OPINION. THERE MAY BE EASEMENTS OR OTHER LIMITING FACTORS NOT SHOWN ON THIS SURVEY WHICH AFFECT THE SUBJECT PROPERTY.
ACCORDING TO THE CITY OF CROSSLAKE LAND USE DISTRICTS MAP, THE SUBJECT PROPERTY AND ALL ADJOINING PROPERTIES ARE LOCATED WITHIN THE DOWNTOWN COMMERCIAL ZONING DISTRICT.
THE BUILDING SETBACK LINES ARE SHOWN ACCORDING TO THE CODE OF ORDINANCES FOR THE CITY OF CROSSLAKE, MINNESOTA, CHAPTER 26, LAND USE.
THE UNDERGROUND UTILITIES SHOWN ON THIS SURVEY ARE ACCORDING TO OBSERVED EVIDENCE AND GOPHER ONE, TICKET NO. 233320938. WIDSETH ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS AND ACCURACY OF THESE LOCATIONS. FURTHER LOCATIONS AND VERIFICATIONS ARE RECOMMENDED BEFORE ANY CONSTRUCTION OR EXCAVATION.
ACCORDING TO F.E.M.A. FIRMETTE MAP NO. 2703500190C EFFECTIVE DATE AUGUST 15, 2017 THE PROPERTY IS WITHIN ZONE "X" (AREA OF MINIMAL FLOOD HAZARDOUS)

FINAL THE NATIONAL LOON CENTER LEGAL DESCRIPTION:
All that part of the West 580.00 feet of the Southeast Quarter of the Northwest Quarter, (SE1/4NW1/4), Section Twenty-one (21), Township One Hundred Thirty-seven (137), Range Twenty-seven (27), lying Northerly of County State Aid Highway No. 3 and lying Easterly of the following described line: Commencing at the Southwest corner of said SE1/4NW1/4; thence North assumed bearing, 1305.30 feet along the West line of said SE1/4NW1/4; thence East 285.00 feet to a point hereinafter designated Point "A"; thence North 4 feet, more or less, to the North line of said SE1/4NW1/4, the point of beginning of the line to be described; thence reversing South 4 feet, more or less to said Point "A"; thence continuing South 508.55 feet; thence South 64 degrees 35 minutes 00 seconds West 1.94 feet; thence South 30 degrees 27 minutes 00 seconds West 191.20 feet; thence South 48 degrees 07 minutes 00 seconds West 130 feet, more or less, to said County State Aid Highway No. 3 and said line here ending. EXCEPT that part of SE1/4NW1/4 deeded to Reed by the deed recorded in Book 350 of Deeds, page 340;
EXCEPT
That part of the East Half of the Northwest Quarter (E1/2NW1/4) of Section 21, Township 137 North, Range 27 West, Crow Wing County, Minnesota, described as follows: Commencing at the Southwest corner of said E1/2-NW1/4; thence North, assumed bearing, 1462.30 feet along the West line of said E1/2-NW1/4 to the Southwest corner of the tract deeded to the Church of the Immaculate Heart by the deed recorded in Book 191 of Deeds, page 60, in the Office of the Crow Wing County Recorder; thence South 89 degrees 51 minutes East 416.50 feet along the South line of said Church tract and its Easterly extension to the point of beginning of the tract to be described; thence South 89 degrees 51 minutes East 629.5 feet; thence South 457.0 feet; thence West 466.0 feet; thence North 140 feet; thence West 295 feet; thence North 160.00 feet to the Easterly extension of the North line of the tract deeded to Moritz by the Deed recorded in Book 205 of Deeds, page 112, in the Office of the Crow Wing County Recorder; thence East 131.5 feet along said Easterly extension; thence North 155.90 feet to the point of beginning.
EXCEPT
That part of the Southeast Quarter of the Northwest Quarter (SE1/4-NW1/4), Section 21, Township 137, Range 27, Crow Wing County, Minnesota, described as follows: Commencing at the southwest corner of Lot 4A, Block 1, PINE PEAKS, according to the recorded plat thereof on file in the Crow Wing County, Minnesota, Recorder's Office; thence South 89 degrees 34 minutes 57 seconds East, bearing based on the Crow Wing County Coordinate Database NAD 83, 162.74 feet along the easterly line of said Lot 4A to the point of beginning of the tract to be described; thence South 89 degrees 34 minutes 57 seconds East 131.50 feet along said southerly line of Lot 4A and its southerly extension; thence North 00 degrees 25 minutes 03 seconds West 177.68 feet to the point of beginning; thence North 00 degrees 25 minutes 03 seconds West 140.00 feet along said southerly line of Lot 4A to the line that bears North 89 degrees 34 minutes 57 seconds West from the point of beginning; thence South 89 degrees 34 minutes 57 seconds East 130.00 feet to the line that bears South 00 degrees 25 minutes 03 seconds West from the point of beginning; thence North 00 degrees 25 minutes 03 seconds East 177.68 feet to the point of beginning.
AND
Lot 1, Block 1, PIONEER ADDITION TO CROSSLAKE according to the recorded plat thereof on file in the Crow Wing County, Minnesota, Recorder's Office
AND
Lot 2, Block 1, PIONEER ADDITION TO CROSSLAKE according to the recorded plat thereof on file in the Crow Wing County, Minnesota, Recorder's Office.

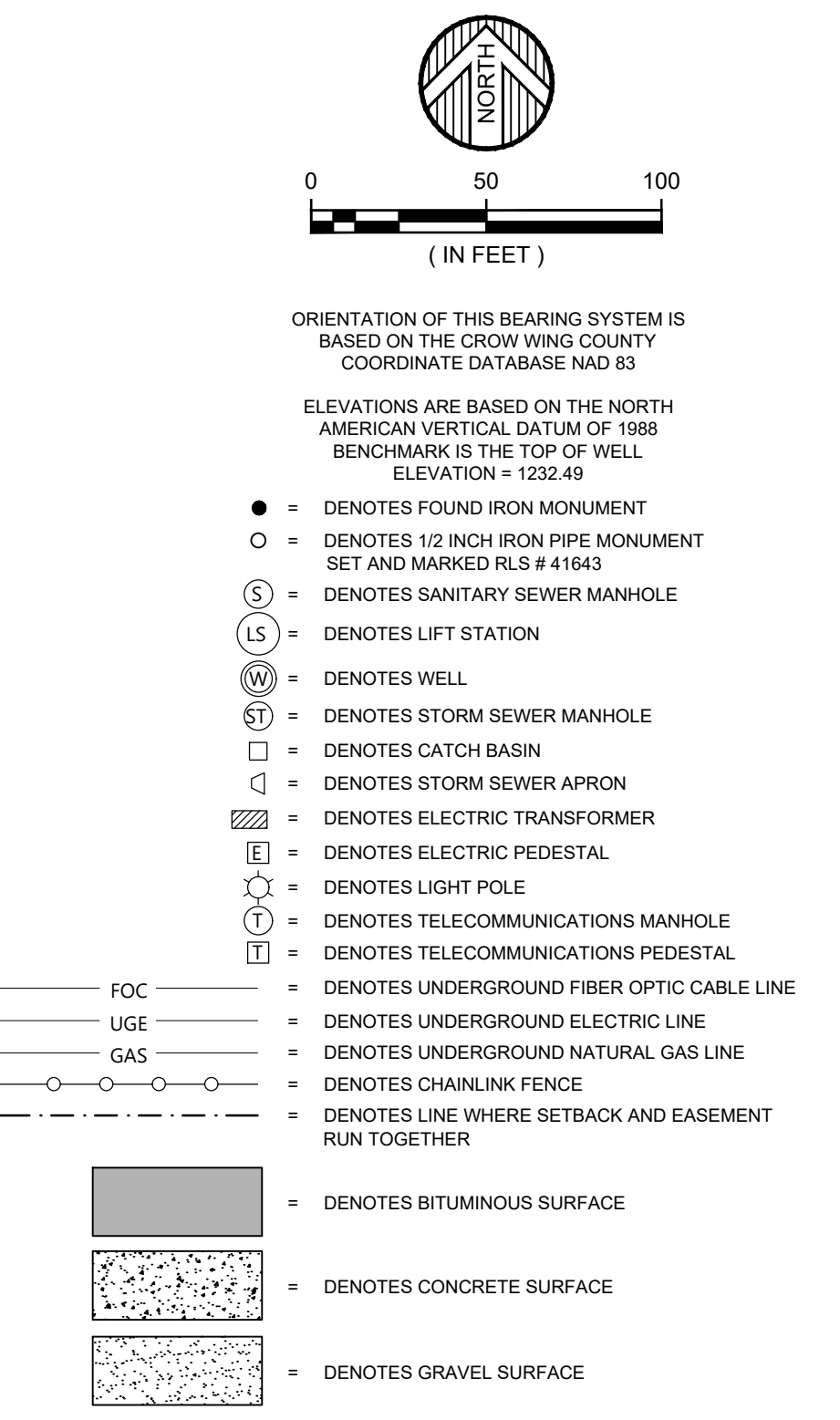
EXISTING PINE PEAKS LEGAL DESCRIPTION:
According to Doc. No. 744836

EXISTING THE NATIONAL LOON CENTER LEGAL DESCRIPTION:
According to Doc. No. A993392
According to Doc. No. T274500
According to Doc. No. T274503

PROPOSED LEGAL DESCRIPTION TRACT A (Pine Peaks to The National Loon Center):
That part of Lot 4A, Block 1, PINE PEAKS, according to the recorded plat thereof on file in the Crow Wing County, Minnesota, Recorder's Office, described as follows: Commencing at the northeast corner of said Lot 4A; thence South 00 degrees 25 minutes 03 seconds West, bearing based on the Crow Wing County Coordinate Database NAD 83, 162.74 feet along the easterly line of said Lot 4A to the point of beginning of the tract to be described; thence South 89 degrees 34 minutes 57 seconds East 163.50 feet along said easterly line of Lot 4A; thence South 00 degrees 25 minutes 03 seconds West 140.00 feet along said easterly line of Lot 4A; thence North 00 degrees 25 minutes 03 seconds West 165.00 feet along the southerly line of said Lot 4A; thence North 00 degrees 25 minutes 03 seconds East 140.00 feet along said southerly line of Lot 4A to the line that bears North 89 degrees 34 minutes 57 seconds West from the point of beginning; thence South 89 degrees 34 minutes 57 seconds East 1.50 feet to the point of beginning.

PROPOSED LEGAL DESCRIPTION TRACT B (The National Loon Center to Pine Peaks):
That part of the Southeast Quarter of the Northwest Quarter (SE1/4-NW1/4), Section 21, Township 137, Range 27, Crow Wing County, Minnesota, described as follows: Commencing at the southwest corner of Lot 4A, Block 1, PINE PEAKS, according to the recorded plat thereof on file in the Crow Wing County, Minnesota, Recorder's Office; thence South 89 degrees 34 minutes 57 seconds East, bearing based on the Crow Wing County Coordinate Database NAD 83, 255.20 feet along the southerly line of said Lot 4A; thence South 00 degrees 25 minutes 03 seconds West 62.74 feet along said southerly line of Lot 4A to the point of beginning of the tract to be described; thence South 89 degrees 34 minutes 57 seconds East 131.50 feet along said southerly line of Lot 4A and its southerly extension; thence North 89 degrees 34 minutes 57 seconds West 130.00 feet to the line that bears South 00 degrees 25 minutes 03 seconds West from the point of beginning; thence North 00 degrees 25 minutes 03 seconds East 177.68 feet to the point of beginning.

FINAL PINE PEAKS LEGAL DESCRIPTION:
Lots 4 and 4A, Block 1, Pine Peaks, according to the recorded plat on file in the office of the Crow Wing County Recorder and in the office of the Crow Wing County Registrar of Titles. Together with that part of the Southeast Quarter of the Northwest Quarter (SE1/4-NW1/4), Section 21, Township 137, Range 27, Crow Wing County, Minnesota, described as follows: Commencing at the southwest corner of Lot 4A, Block 1, PINE PEAKS, according to the recorded plat thereof on file in the Crow Wing County, Minnesota, Recorder's Office; thence South 89 degrees 34 minutes 57 seconds East, bearing based on the Crow Wing County Coordinate Database NAD 83, 255.20 feet along the southerly line of said Lot 4A; thence South 00 degrees 25 minutes 03 seconds West 62.74 feet along said southerly line of Lot 4A to the point of beginning of the tract to be described; thence South 89 degrees 34 minutes 57 seconds East 131.50 feet along said southerly line of Lot 4A; thence South 00 degrees 25 minutes 03 seconds West 140.00 feet along said southerly line of Lot 4A and its southerly extension; thence North 89 degrees 34 minutes 57 seconds West 165.00 feet along the southerly line of said Lot 4A; thence North 00 degrees 25 minutes 03 seconds West 140.00 feet along said southerly line of Lot 4A to the line that bears North 89 degrees 34 minutes 57 seconds West from the point of beginning; thence South 89 degrees 34 minutes 57 seconds East 1.50 feet to the point of beginning.

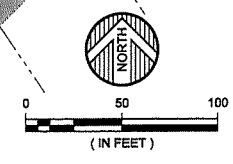
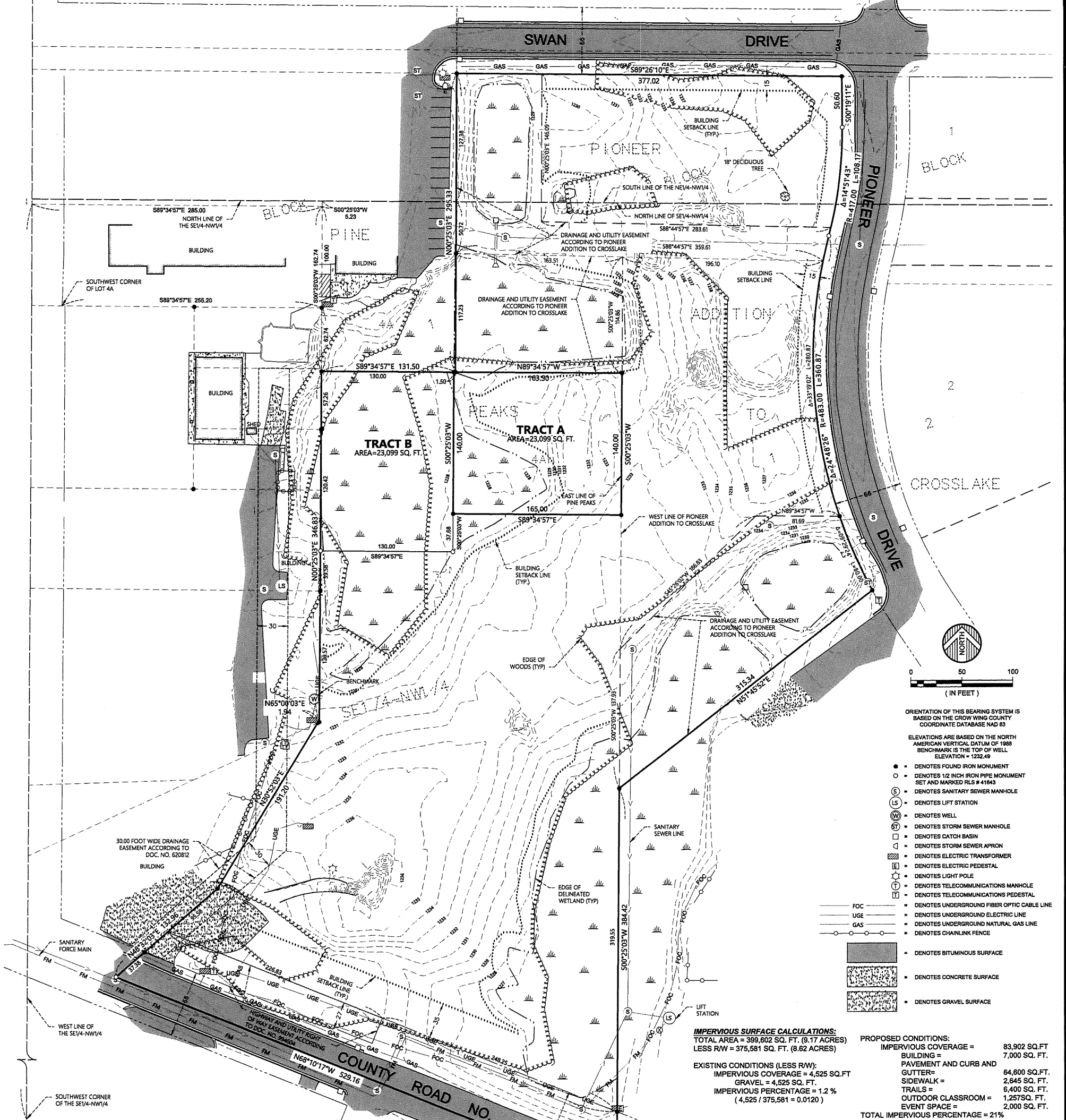


DATE:	OCTOBER 07, 2024	DATE:	AMENDMENTS	BY:	PREPARED FOR:
SCALE:	AS SHOWN	10-18-2024	AMENDED PER THE CITY OF CROSSLAKES COMMENTS	CPS	THE NATIONAL LOON CENTER FOUNDATION
DRAWN BY:	CPS	11-08-2024	AMENDED PER THE CITY OF CROSSLAKES COMMENTS	CPS	I HEREBY CERTIFY THAT THIS SURVEY, PLAN, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MINNESOTA.
CHECKED BY:	CMC				<i>Curtis P. Sanow</i>
FILE NUMBER:	2023-12079			CURTIS P. SANOW	DATE: 11-08-2024 LIC. NO. 59005



CERTIFICATE OF SURVEY

LOTS 1 AND 2 BLOCK 1, PIONEER ADDITION TO CROSSLAKE,
AND PART OF THE SE1/4-NW1/4,
SECTION 21, TOWNSHIP 137, RANGE 27,
CROW WING COUNTY, MINNESOTA



ORIENTATION OF THIS BEARING SYSTEM IS BASED ON THE CROW WING COUNTY COORDINATE DATABASE NAD 83

ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 BENCHMARK IS THE TOP OF WELL ELEVATION = 1232.48

- DENOTES FOUND IRON MONUMENT
- DENOTES 1/2 INCH IRON PIPE MONUMENT SET AND MARKED RLS # 41643
- ⊙ DENOTES SANITARY SEWER MANHOLE
- ⊕ DENOTES LIFT STATION
- ⊖ DENOTES WELL
- ⊗ DENOTES STORM SEWER MANHOLE
- ⊘ DENOTES CATCH BASIN
- ⊙ DENOTES STORM SEWER APRON
- ⊚ DENOTES ELECTRIC TRANSFORMER
- ⊛ DENOTES ELECTRIC PEDESTAL
- ⊜ DENOTES LIGHT POLE
- ⊝ DENOTES TELECOMMUNICATIONS MANHOLE
- ⊞ DENOTES TELECOMMUNICATIONS PEDESTAL
- ⊟ DENOTES UNDERGROUND FIBER OPTIC CABLE LINE
- ⊠ DENOTES UNDERGROUND ELECTRIC LINE
- ⊡ DENOTES UNDERGROUND NATURAL GAS LINE
- ⊢ DENOTES CHAINLINK FENCE

- FOC DENOTES BITUMINOUS SURFACE
- UGE DENOTES CONCRETE SURFACE
- GAS DENOTES GRAVEL SURFACE

IMPERVIOUS SURFACE CALCULATIONS:
TOTAL AREA = 399,602 SQ. FT. (9.17 ACRES)
LESS R/W = 375,581 SQ. FT. (8.62 ACRES)

EXISTING CONDITIONS (LESS R/W):
IMPERVIOUS COVERAGE = 4,525 SQ. FT.
GRAVEL = 4,525 SQ. FT.
IMPERVIOUS PERCENTAGE = 1.2 %
(4,525 / 375,581 = 0.0120)

PROPOSED CONDITIONS:
IMPERVIOUS COVERAGE = 83,902 SQ. FT.
BUILDING = 7,000 SQ. FT.
PAVEMENT AND CURB AND GUTTER = 2,645 SQ. FT.
SIDEWALK = 6,400 SQ. FT.
TRAILS = 1,257 SQ. FT.
OUTDOOR CLASSROOM = 2,000 SQ. FT.
EVENT SPACE = 2,000 SQ. FT.

**TOTAL IMPERVIOUS PERCENTAGE = 21%
(83,902 / 399,602 = 0.21)**

EXISTING LEGAL DESCRIPTION (According to Doc. No. 1274500):
Lot 1, Block 1, PIONEER ADDITION TO CROSSLAKE

EXISTING LEGAL DESCRIPTION (According to Doc. No. 1274503):
Lot 2, Block 1, PIONEER ADDITION TO CROSSLAKE

EXISTING LEGAL DESCRIPTION (According to Doc. No. 983392):
All that part of the West 580.00 feet of the Southeast Quarter of the Northwest Quarter, (SE1/4-NW1/4), Section Twenty-one (21), Township One Hundred Thirty-seven (137), Range Twenty-seven (27), lying Northerly of County State Aid Highway No. 3 and lying Easterly of said SE1/4-NW1/4; thence North assumed bearing, 1305.30 feet along the West line of said SE1/4-NW1/4; thence East 235.00 feet to a point hereinafter designated Point "A"; thence North 4 feet, more or less, to the North line of said SE1/4-NW1/4, the point of beginning of the line to be described; thence reversing South 4 feet, more or less to said Point "A"; thence continuing South 503.55 feet; thence South 84 degrees 35 minutes 00 seconds West 1.94 feet; thence South 30 degrees 27 minutes 00 seconds West 191.20 feet; thence South 48 degrees 07 minutes 00 seconds West 130 feet, more or less, to said County State Aid Highway No. 3 and said line there ending, EXCEPT that part of said SE1/4-NW1/4; thence North, assumed bearing, 1305.30 feet along the West line of said E1/2-NW1/4 to the Northwest corner of the tract deceded to the Church of the Immaculate Heart by the deed recorded in Book 191 of Deeds, page 60, in the office of the Crow Wing County Recorder; thence South 89 degrees 51 minutes East 416.50 feet along the South line of said Church tract and its Easterly extension; thence South 155.90 feet to the Easterly extension of the North line of said Moritz tract, thence West 416.50 feet along said Easterly extension and said North line of the Moritz tract to the point of beginning, subject to the right of way for CSAH #6 along the West line thereof.

Conveyance in Book 344 of Deeds, page 423 more fully described as follows:
That part of the East Half of the Northwest Quarter (E1/2-NW1/4) of Section 21, Township 137 North, Range 27 West, Crow Wing County, Minnesota described as follows: Commencing at the Southwest corner of said (E1/2-NW1/4); thence North, assumed bearing, 1305.30 feet along the West line of said E1/2-NW1/4 to the Northwest corner of the tract deceded to Moritz by the Deed recorded in Book 205 of Deeds, Page 112, in the office of the Crow Wing County Recorder, the point of beginning of the tract to be described; thence North 157.00 feet continuing along said West line to the Southwest corner of the tract deceded to the Church of the Immaculate Heart by the Deed recorded in Book 191 of Deeds, Page 60 in the office of the Crow Wing County Recorder; thence South 89 degrees 51 minutes East 416.50 feet along the South line of said Church tract and its Easterly extension; thence South 155.90 feet to the Easterly extension of the North line of said Moritz tract, thence West 416.50 feet along said Easterly extension and said North line of the Moritz tract to the point of beginning, subject to the right of way for CSAH #6 along the West line thereof.

Conveyance in Document No. 450829 more fully described as follows:
That part of the Southeast Quarter of the Northwest Quarter of Section 21, Township 137 North, Range 27 West, Crow Wing County, Minnesota, described as follows:
Commencing at the Southwest corner of said Southeast Quarter of the Northwest Quarter being a concrete monument established by the U.S. Corps of Engineers; thence on an assumed bearing of North, along the West line of said Southeast Quarter of the Northwest Quarter as established and monumented by the U.S. Corps of Engineers 1462.30 feet to the Southwest corner of the tract deceded to the Church of the Immaculate Heart by the deed recorded in Book 191 of Deeds, page 60, in the office of the Crow Wing County Recorder; thence South 89 degrees 51 minutes East 416.50 feet along the South line of said Church tract and its Easterly extension to the point of beginning of the tract to be described; thence South 89 degrees 51 minutes East 629.5 feet; thence South 457.0 feet; thence West 486.0 feet; thence North 140 feet; thence West 295 feet; thence North 160.00 feet to the Easterly extension of the North line of the tract deceded to Moritz by the Deed recorded in Book 205 of Deeds, page 112, in the office of the Crow Wing County Recorder; thence East 131.5 feet along said Easterly extension; thence North 155.90 feet to the point of beginning.

PROPOSED LEGAL DESCRIPTION TRACT A:
That part of Lot 4A, Block 1, PINE PEAKS, according to the recorded plat thereof on file in the Crow Wing County, Minnesota, Recorder's Office, described as follows: Commencing at the northeast corner of said Lot 4A; thence South 00 degrees 25 minutes 03 seconds West, bearing based on the Crow Wing County Coordinate Database NAD 83, 162.74 feet along the easterly line of said Lot 4A to the point of beginning of the tract to be described; thence South 89 degrees 34 minutes 57 seconds East 163.50 feet along said easterly line of Lot 4A; thence South 00 degrees 25 minutes 03 seconds West 140.00 feet along said easterly line of Lot 4A; thence North 89 degrees 34 minutes 57 seconds West 165.00 feet along the southerly line of said Lot 4A; thence North 00 degrees 25 minutes 03 seconds East 140.00 feet along said southerly line of Lot 4A to the line that bears North 89 degrees 34 minutes 57 seconds West from the point of beginning; thence South 89 degrees 34 minutes 57 seconds East 1.50 feet to the point of beginning.

PROPOSED LEGAL DESCRIPTION TRACT B:
That part of the Southeast Quarter of the Northwest Quarter (SE1/4-NW1/4), Section 21, Township 137 North, Range 27 West, Crow Wing County, Minnesota, described as follows: Commencing at the southwest corner of Lot 4A, Block 1, PINE PEAKS, according to the recorded plat thereof on file in the Crow Wing County, Minnesota, Recorder's Office; thence South 89 degrees 34 minutes 57 seconds East, bearing based on the Crow Wing County Coordinate Database NAD 83, 255.20 feet along the southerly line of said Lot 4A; thence South 00 degrees 25 minutes 03 seconds West 62.74 feet along said southerly line of Lot 4A to the point of beginning of the tract to be described; thence South 89 degrees 34 minutes 57 seconds East 131.50 feet along said southerly line of Lot 4A; thence South 00 degrees 25 minutes 03 seconds West 177.68 feet along said southerly line of Lot 4A and its southerly extension; thence North 89 degrees 34 minutes 57 seconds West 130.00 feet to the line that bears South 00 degrees 25 minutes 03 seconds West from the point of beginning; thence North 00 degrees 25 minutes 03 seconds East 177.68 feet to the point of beginning.

SURVEYOR'S NOTES:
TOTAL PROPERTY AREA SURVEYED = 9.2 ACRES
BUILDING ENVELOPE = 260,205 SQ. FT. (5.97 ACRES)

THE PID'S FOR THE SUBJECT PROPERTY ARE 14210763, 14210614 AND 14210615.

THE E-911 ADDRESS FOR THE SUBJECT PROPERTY IS 35643 COUNTY ROAD 3, CROSSLAKE, MN.

THERE ARE NO BLUFFS OR STEEP SLOPES ON THE SUBJECT PROPERTY.

THE SUBJECT PROPERTY IS NON-RIPARIAN.

THE WETLANDS ON THE SUBJECT PROPERTY ARE SHOWN ACCORDING TO THE WETLAND DELINEATION COMPLETED BY DUNCAN WIDMAN, CERTIFIED WETLAND DELINEATOR IN TRAINING NO. 5359, ON SEPTEMBER 12, 2024

THIS SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF A TITLE COMMITMENT OR OPINION. THERE MAY BE EASEMENTS OR OTHER LIMITING FACTORS NOT SHOWN ON THIS SURVEY WHICH AFFECT THE SUBJECT PROPERTY.

ACCORDING TO THE CITY OF CROSSLAKE LAND USE DISTRICTS MAP, THE SUBJECT PROPERTY AND ALL ADJOINING PROPERTIES ARE LOCATED WITHIN THE DOWNTOWN COMMERCIAL ZONING DISTRICT.

THE BUILDING SETBACK LINES ARE SHOWN ACCORDING TO THE CODE OF ORDINANCES FOR THE CITY OF CROSSLAKE, MINNESOTA, CHAPTER 26, LAND USE.

THE UNDERGROUND UTILITIES SHOWN ON THIS SURVEY ARE ACCORDING TO OBSERVED EVIDENCE AND GOPHER ONE, TICKET NO. 233320938. WIDSETH ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS AND ACCURACY OF THESE LOCATIONS. FURTHER LOCATIONS AND VERIFICATIONS ARE RECOMMENDED BEFORE ANY CONSTRUCTION OR EXCAVATION.

ACCORDING TO F.E.M.A. FIRMETTE MAP NO. 27035C0190C EFFECTIVE DATE AUGUST 15, 2017 THE PROPERTY IS WITHIN ZONE "X" (AREA OF MINIMAL FLOOD HAZARD)

FOR THE PURPOSES OF THIS SURVEY TRACTS A AND B ARE NOT TO BE STAND ALONE TRACTS. TRACT A IS TO BE COMBINED WITH THE NATIONAL LOON CENTER PARCEL, PID NO. 14210763 AND TRACT B IS TO BE COMBINED WITH THE PINE PEAKS PARCEL, PID NO. 14210608.

SHEET 1 OF 2 SHEETS

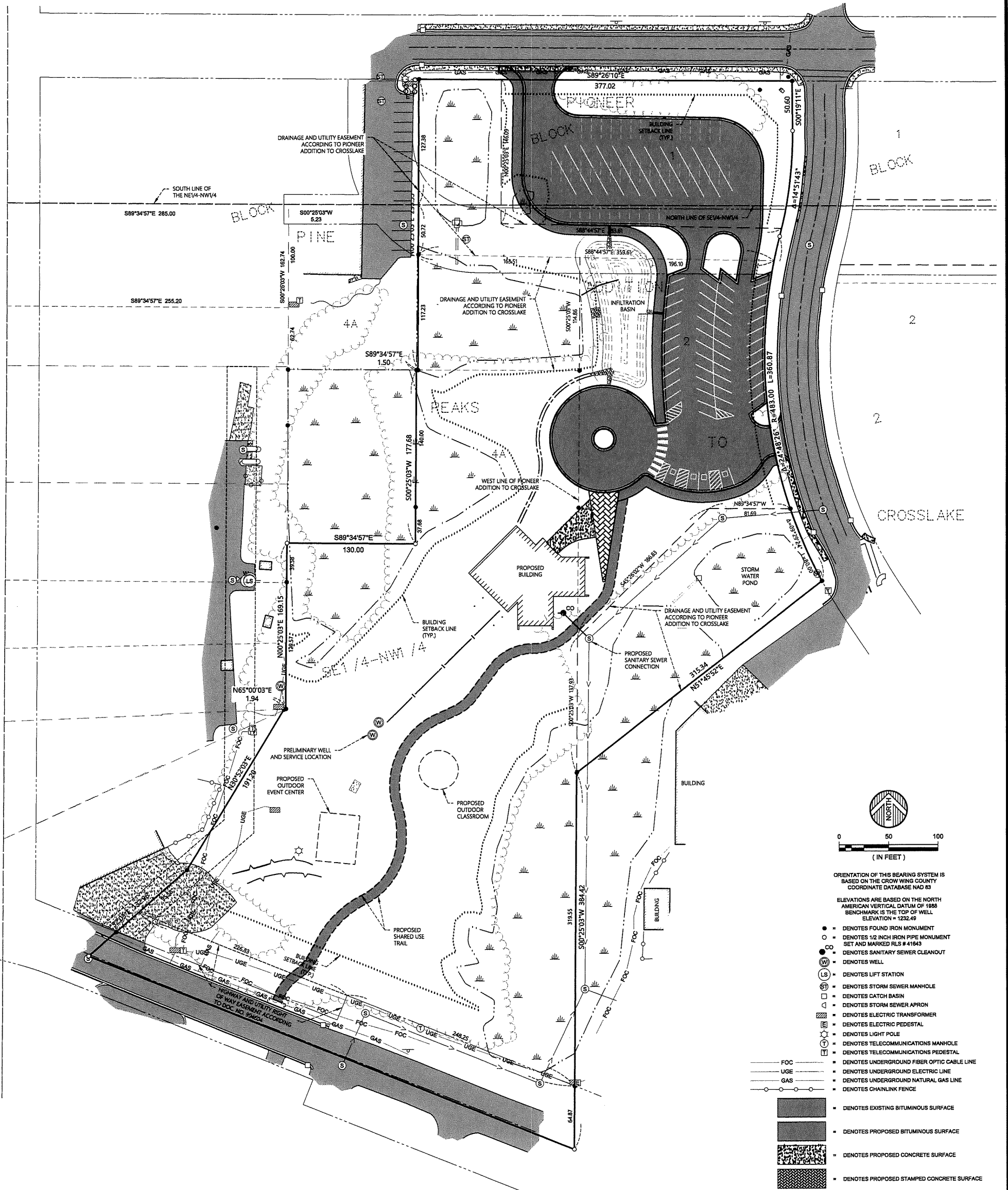
© 2024 WIDSETH SMITH NOLTING & ASSOCIATES, INC.

DATE:	OCTOBER 07, 2024	DATE:	AMENDMENTS	BY:	PREPARED FOR:
SCALE:	AS SHOWN	01-18-2024	AMENDED PER THE CITY OF CROSSLAKES COMMENTS	CPS	THE NATIONAL LOON CENTER FOUNDATION
DRAWN BY:	CPS				I HEREBY CERTIFY THAT THIS SURVEY, PLAN, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MINNESOTA.
CHECKED BY:	CMC				<i>Curtis P. Sanow</i>
FILE NUMBER:	2023-12079			CURTIS P. SANOW	DATE: 10-18-2024 LIC. NO. 59005

WIDSETH
ARCHITECTS • ENGINEERS • SCIENTISTS • SURVEYORS

PROPOSED IMPROVEMENTS

LOTS 1 AND 2 BLOCK 1, PIONEER ADDITION TO CROSSLAKE,
AND PART OF THE SE1/4-NW1/4,
SECTION 21, TOWNSHIP 137, RANGE 27,
CROW WING COUNTY, MINNESOTA



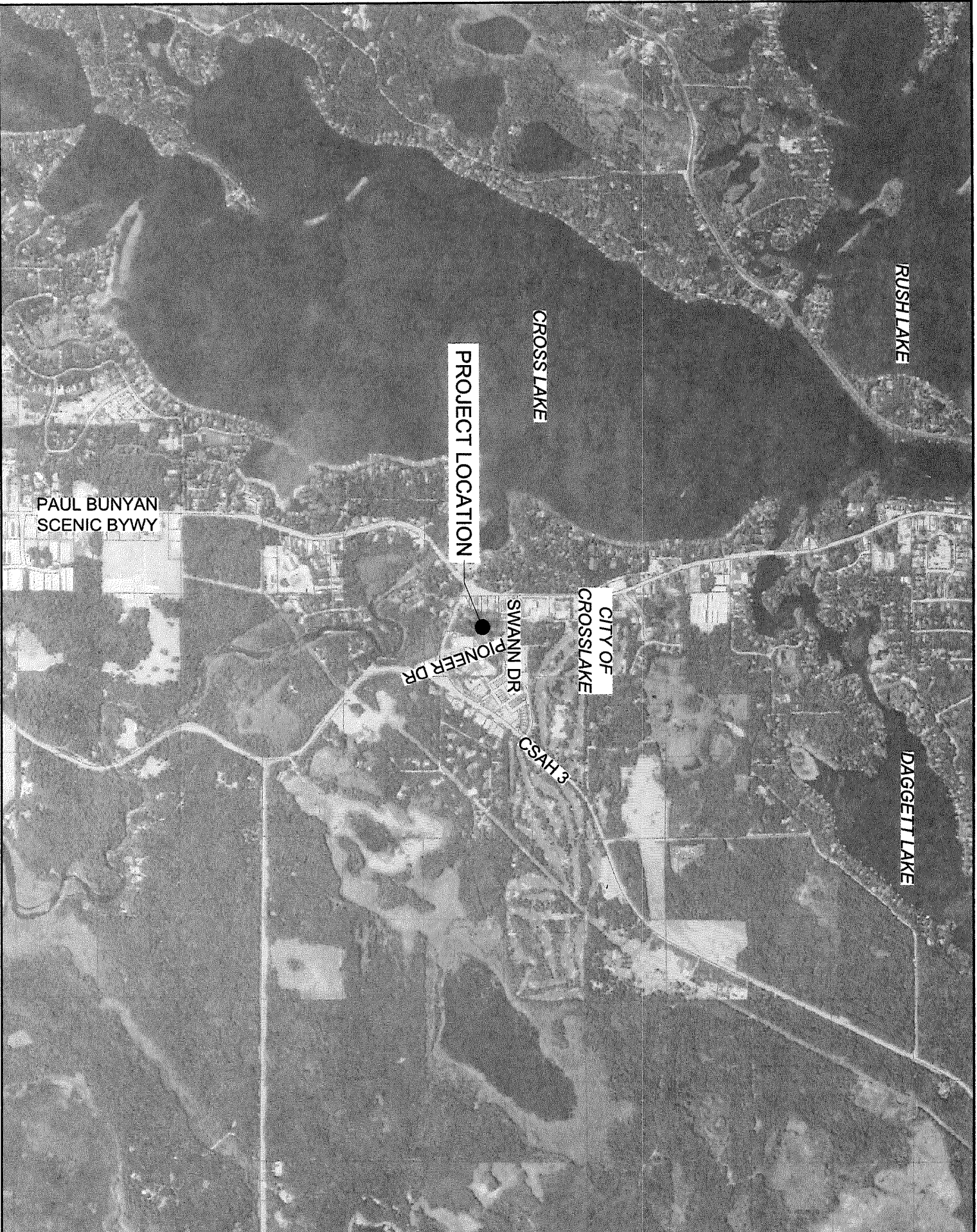
SURVEY NOTES:
SEE CIVIL PLAN SET FOR UTILITY PLANS.

DATE:	OCTOBER 07, 2024	DATE:	AMENDMENTS	BY:	PREPARED FOR:
SCALE:	AS SHOWN	10-18-2024	AMENDED PER THE CITY OF CROSSLAKES COMMENTS	CPS	THE NATIONAL LOON CENTER FOUNDATION
DRAWN BY:	CPS				I HEREBY CERTIFY THAT THIS SURVEY, PLAN, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MINNESOTA.
CHECKED BY:	CMC				<i>Curtis P. Sanow</i>
FILE NUMBER:	2023-12079			CURTIS P. SANOW	DATE: 10-18-2024 LIC. NO. 59005

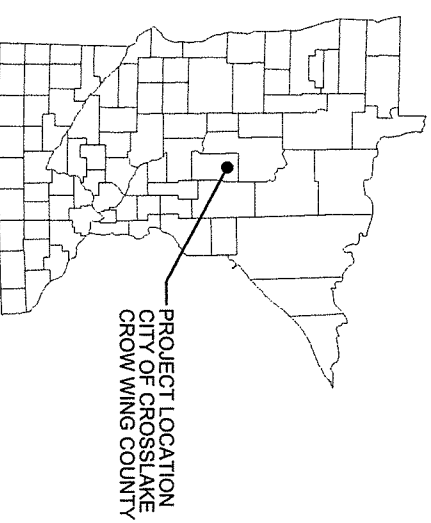
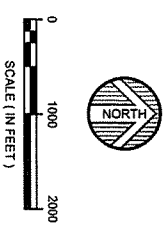
NATIONAL LOON CENTER - ACTIVITY #2

THE NATIONAL LOON CENTER FOUNDATION

CITY OF CROSSLAKE, MINNESOTA



INDEX TO DRAWINGS	
SHEET NO.	DESCRIPTION
G1.0	TITLE SHEET
C1.1	CIVIL LEGEND
C2.1	EXISTING CONDITIONS & REMOVALS
C3.1	SITE PLAN
C4.1	UTILITIES PLAN
C5.1	GRADING PLAN
C6.1	SIGNING & PAVEMENT MARKING PLAN
C7.1	LANDSCAPE PLAN
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A1.2	SECOND LEVEL FLOOR PLAN
A1.3	THIRD LEVEL FLOOR PLAN
A4.1 - A4.2	BUILDING ELEVATIONS



DATE: MMDDYYYYIC. NO. -

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Greg Selberg

WIDSETH
ARCHITECTS • ENGINEERS • SCIENTISTS • SURVEYORS

DATE	REV#	REVISIONS DESCRIPTION	BY

DATE: OCTOBER 7, 2024
SCALE: AS SHOWN
DRAWN BY: JDS
CHECKED BY: JDS
JOB NUMBER: 2020-12042

NATIONAL LOON CENTER - ACTIVITY #2
THE NATIONAL LOON CENTER FOUNDATION
35463 COUNTY ROAD 3 CROSSLAKE, MN
TITLE SHEET

SURVEY MONUMENTS

- ◆ BENCH MARK
- FOUND CIM
- ▲ FOUND CPNT.
- FOUND JLM
- + LATH
- FOUND PIPE
- × READING
- FOUND READING
- STAKED CIM
- ▲ STAKED CPNT.
- STAKED JLM
- STAKED PIPE

EXISTING TOPO SYMBOLS

- Ⓜ AC UNIT
- FENCE POST
- ↓ FLAG POLE
- GUARD POST
- GUY ANCHOR
- GUY POLE
- ♿ HANDICAP SYMBOL
- ✉ MAIL BOX
- SHRUB
- SIGN DOUBLE POST
- SIGN SINGLE POST
- TREE CONIFER
- TREE DECIDUOUS
- ♠ TREE STUMP
- TV DISH
- WETLAND SYMBOL
- ☀ YARD LIGHT

EXISTING UTILITY MUNICIPAL SYMBOLS

- APRON
- ⑬ LIFT STATION
- ⊗ SANITARY CLEANOUT
- ⊗ SANITARY MANHOLE
- STORM CATCH BASIN
- ⊗ STORM INLET

EXISTING UTILITY MUNICIPAL SYMBOLS (cont.)

- Ⓜ STORM MANHOLE
- Ⓜ WATER CURB STOP
- Ⓜ WATER HANDHOLE
- Ⓜ WATER HYDRANT
- Ⓜ WATER MANHOLE
- Ⓜ WATER METER
- Ⓜ WATER VALVE
- Ⓜ WATER WELL
- UTILITY UTILITY SIZE & TYPE

EXISTING UTILITY PRIVATE SYMBOLS

- ⚡ ELEC GROUND LIGHT
- Ⓜ ELEC HANDHOLE
- Ⓜ ELEC LIGHT POLE
- Ⓜ ELEC MANHOLE
- Ⓜ ELEC METER
- Ⓜ ELEC PEDESTAL
- Ⓜ ELEC POLE
- Ⓜ ELEC SIGNAL
- Ⓜ ELEC TRANSFORMER BOX
- Ⓜ GAS METER
- Ⓜ GAS VALVE
- Ⓜ LP TANK
- Ⓜ TELE HANDHOLE
- Ⓜ TELE MANHOLE
- Ⓜ TELE PEDESTAL
- Ⓜ TELE POLE
- Ⓜ TV HANDHOLE
- Ⓜ TV PEDESTAL

SOIL BORING SYMBOLS

- Ⓜ LASER-INDUCED FLUORESCENCE BORING
- Ⓜ LYSIMETER
- Ⓜ MONITOR WELL
- Ⓜ PERC TEST
- Ⓜ PIEZOMETER
- Ⓜ RECOVERY WELL
- Ⓜ SOIL BORING
- Ⓜ SOIL VAPOR POINT
- Ⓜ VAPOR SURVEY POINT

PROPOSED UTILITY MUNICIPAL SYMBOLS

- ▲ APRON PROPOSED
- SANITARY CLEANOUT PROPOSED
- SANITARY LIFT STATION PROPOSED
- SANITARY LIFT STATION VALVE MANHOLE PROPOSED
- SANITARY MANHOLE PROPOSED
- SANITARY PLUG PROPOSED
- STORM CATCH BASIN PROPOSED
- STORM MANHOLE PROPOSED
- Ⓜ WATER 11 1/4" BEND PROPOSED
- Ⓜ WATER 22 1/2" BEND PROPOSED
- Ⓜ WATER 45° BEND PROPOSED
- Ⓜ WATER 90° BEND PROPOSED
- Ⓜ WATER CAP PROPOSED
- Ⓜ WATER CROSS PROPOSED
- Ⓜ WATER CURB STOP PROPOSED
- Ⓜ WATER HYDRANT PROPOSED
- Ⓜ WATER REDUCER PROPOSED
- Ⓜ WATER SLEEVE PROPOSED
- Ⓜ WATER TEE PROPOSED
- Ⓜ WATER VALVE PROPOSED

PROPOSED UTILITY PRIVATE SYMBOLS

- Ⓜ ELEC LIGHT POLE PROPOSED

EROSION CONTROL SYMBOLS

- ➔ SURFACE DRAINAGE ARROW
- ⬡ STORM DRAIN INLET PROTECTION

TRAFFIC CONTROL DEVICES & SYMBOLS

- Ⓜ TRAFFIC CONTROL SIGN (1 POST)
- Ⓜ TRAFFIC CONTROL SIGN (2 POST)
- Ⓜ TYPE III BARRICADE
- DRUM CHANNELIZER
- Ⓜ FLASHING ARROW OR MESSAGE BOARD

EXISTING TOPOGRAPHIC LINES

- CENTER LINE
- EDGE OF WOODS
- FENCE BARB WIRE
- FENCE CHAIN LINK
- FENCE WOOD
- FORCEMAIN
- OVERHEAD CABLE TV
- OVERHEAD ELECTRIC
- OVERHEAD TELE
- RAILROAD
- RETAINING WALL
- SANITARY SEWER
- SANITARY SEWER SERVICE
- STORM SEWER
- STORM SEWER DRAIN TILE
- UNDERGROUND CABLE TV
- UNDERGROUND ELECTRIC
- UNDERGROUND FIBER OPTIC
- UNDERGROUND GAS
- UNDERGROUND TELE
- WATERMAIN
- WATERMAIN SERVICE
- WETLAND EDGE

PROPOSED CONSTRUCTION LINES

- FENCE CHAIN LINK PROPOSED
- FENCE WOOD PROPOSED
- FENCE BARB WIRE PROPOSED
- FORCEMAIN PROPOSED
- SANITARY SEWER PROPOSED
- SANITARY SERVICE PROPOSED
- STORM SEWER PROPOSED
- STORM SEWER DRAIN TILE PROPOSED
- WATERMAIN PROPOSED
- WATERMAIN SERVICE PROPOSED

EROSION CONTROL LINES

- BALE CHECK
- BIO ROLL
- SILT FENCE
- SILT FENCE TYPE HEAVY DUTY
- SILT FENCE TYPE MACHINE SLICED
- SILT FENCE TYPE PREASSEMBLED
- FLATATION SILT CURTAIN

HATCH PATTERN AND SHADING LEGEND

- RANDOM RIPRAP
- SOD
- SEED
- HYDRAULIC STABILIZER
- EROSION CONTROL BLANKET
- TEMP. ROCK CONSTRUCTION ENTRANCE
- BUILDING WALL HATCH
- BITUMINOUS SURFACE
- CONCRETE SURFACE
- GRAVEL SURFACE
- EASEMENT PATTERN

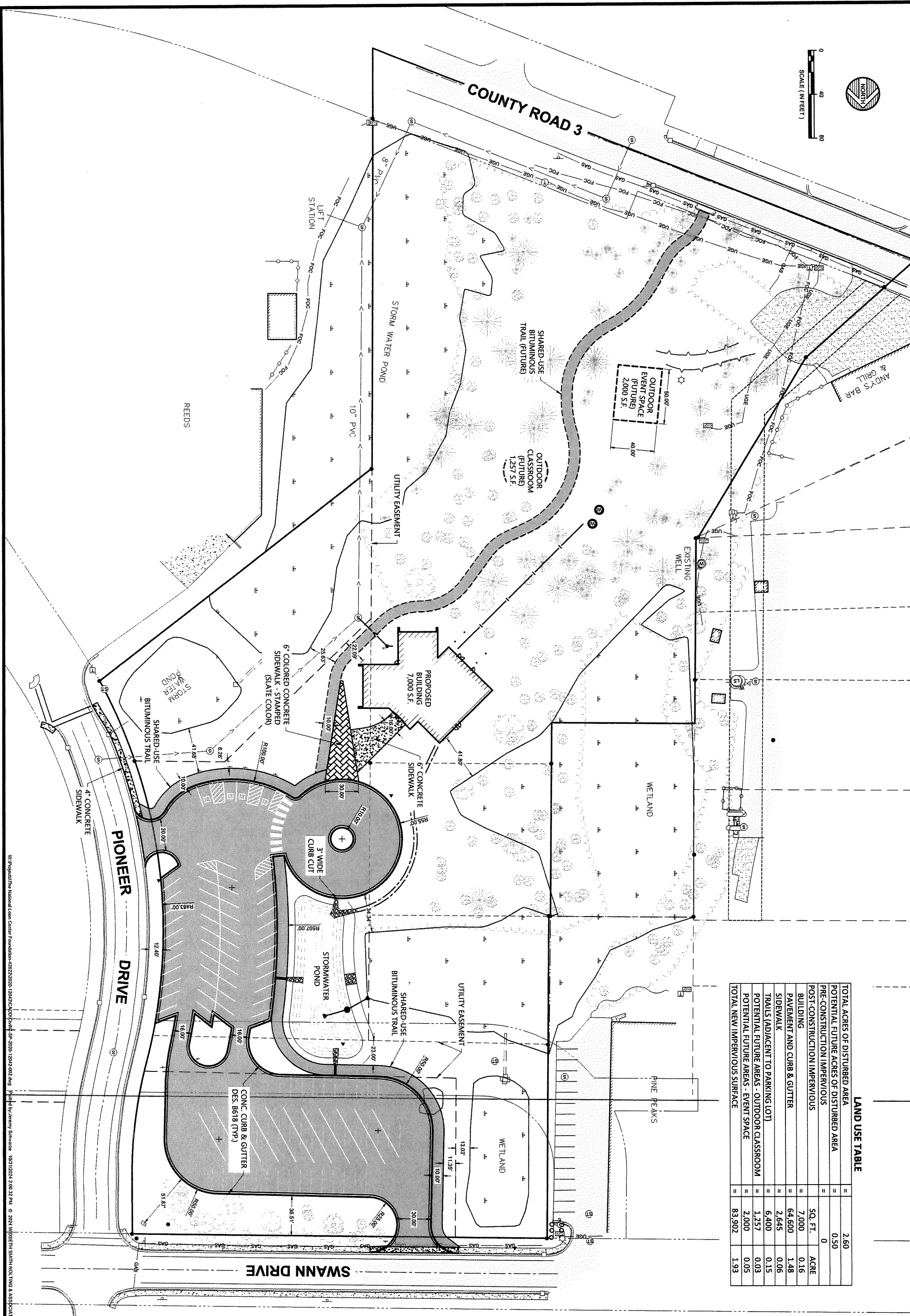
DOCUMENTATION SYMBOLS

- SECTION ARROW -
- SECTION NUMBER TOP -
- PAGE OF SECTION BOTTOM

<p>SHEET NO. C1.1</p>	<p>NATIONAL LOON CENTER - ACTIVITY #2 THE NATIONAL LOON CENTER FOUNDATION 35463 COUNTY ROAD 3 CROSSLAKE, MN</p>	<p>DATE: 10-31-2024 SCALE: AS SHOWN DRAWN BY: JDS CHECKED BY: JDS</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>DATE</th> <th>REV#</th> <th>REVISIONS DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	DATE	REV#	REVISIONS DESCRIPTION	BY					<p>I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.</p> <p style="text-align: right;"><i>Jeremy Schwarze</i></p>	<p>WIDSETH ARCHITECTS • ENGINEERS • SCIENTISTS • SURVEYORS</p>
DATE	REV#	REVISIONS DESCRIPTION	BY										
<p>CIVIL FRMMD</p>		<p>JOB NUMBER: 2020-12042</p>		<p>JEREMY SCHWARZE DATE: 10-31-2024 LIC. NO. 55486</p>									



0 40 80
SCALE (IN FEET)



LAND USE TABLE

	ACRES	SQ. FT.	ACRE
TOTAL ACRES OF DISTURBED AREA	2.60		
POTENTIAL FUTURE ACRES OF DISTURBED AREA	0.50		
PRE-CONSTRUCTION IMPERVIOUS	0		
POST-CONSTRUCTION IMPERVIOUS		7,000	0.16
BUILDING		64,600	1.48
PAVEMENT AND CURB & GUTTER		2,645	0.06
TRAILS (ADJACENT TO PARKING LOT)		6,400	0.15
POTENTIAL FUTURE AREAS - OUTDOOR CLASSROOM		1,257	0.03
POTENTIAL FUTURE AREAS - EVENT SPACE		2,000	0.05
TOTAL NEW IMPERVIOUS SURFACE		83,902	1.93

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NATIONAL LOON CENTER - ACTIVITY #2
 THE NATIONAL LOON CENTER FOUNDATION
 35463 COUNTY ROAD 3 CROSSLAKE, MN

SHEET NO. C3.1

SITE PLAN

DATE	REV#	REVISIONS DESCRIPTION	BY
10-31-2024			

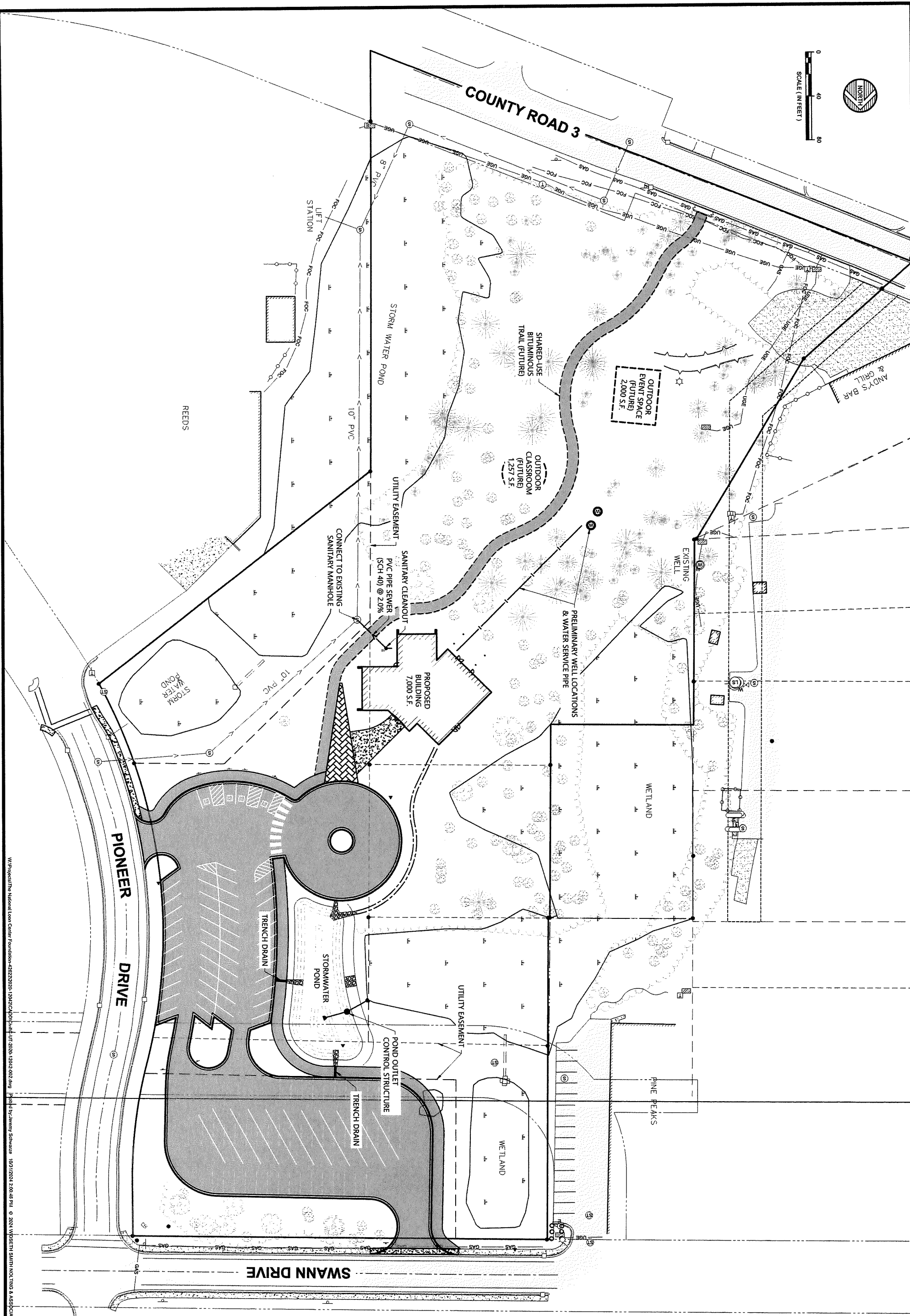
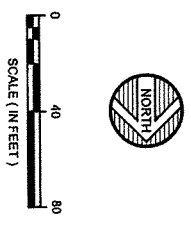
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Jeremy Schwarz

JEREMY SCHWARZ DATE: 10-31-2024 LIC. NO. 55498

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NATIONAL LOON CENTER - ACTIVITY #2
THE NATIONAL LOON CENTER FOUNDATION
35463 COUNTY ROAD 3 CROSSLAKE, MN

SHEET NO.
C4.1

DATE	REV#	REVISIONS DESCRIPTION	BY
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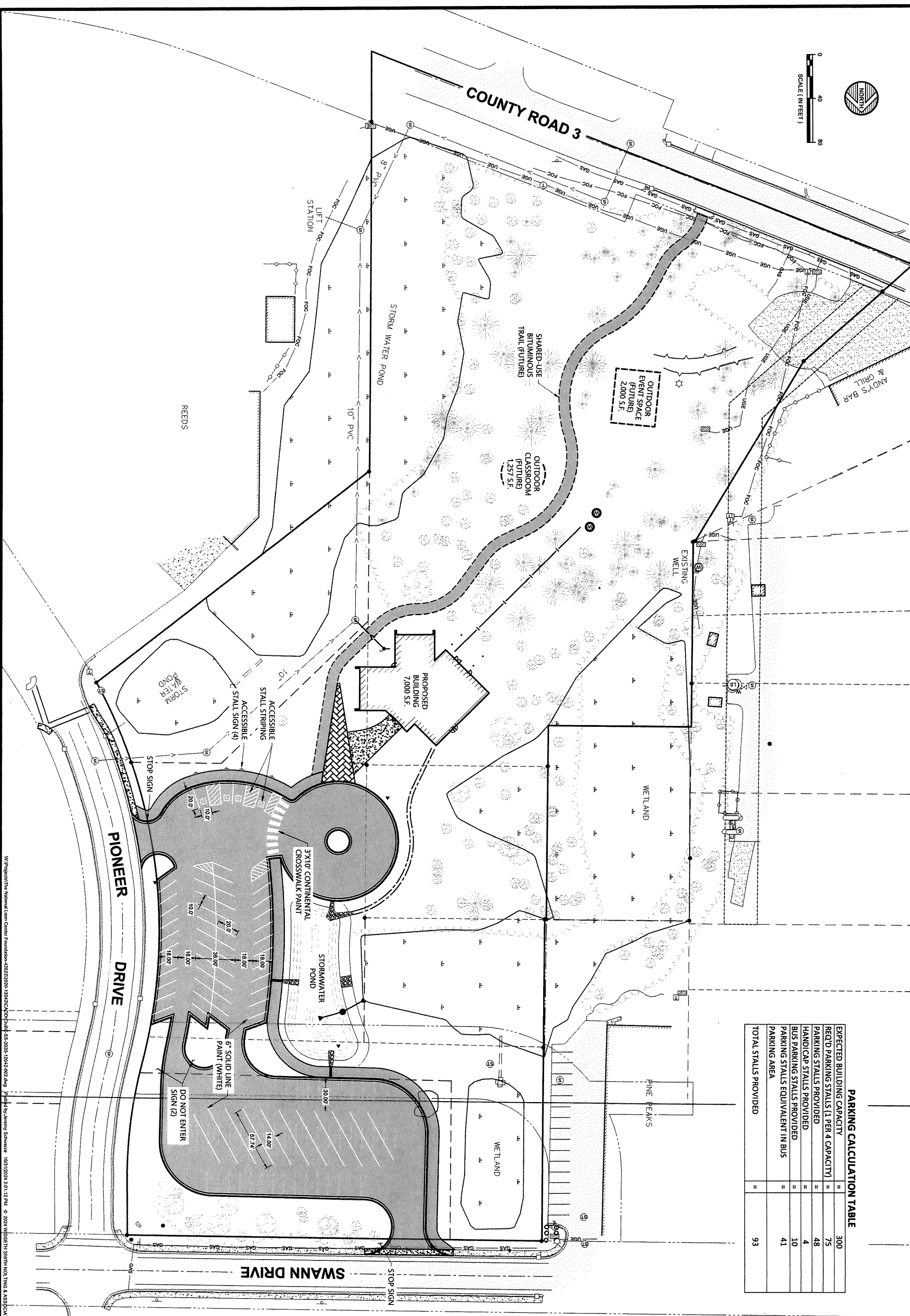
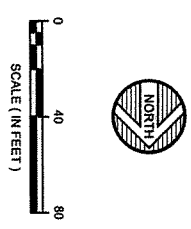
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Jeremy Schwarz
 JEREMY SCHWARZE DATE: 10-31-2024 LIC. NO. 55498

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PARKING CALCULATION TABLE

EXPECTED BUILDING CAPACITY	=	300
REQ'D PARKING STALLS (1 PER 4 CAPACITY)	=	75
PARKING STALLS PROVIDED	=	48
HANDICAP STALLS PROVIDED	=	4
BUS PARKING STALLS PROVIDED	=	10
PARKING STALLS EQUIVALENT IN BUS PARKING AREA	=	41
TOTAL STALLS PROVIDED	=	93

NATIONAL LOON CENTER - ACTIVITY #2
 THE NATIONAL LOON CENTER FOUNDATION
 35463 COUNTY ROAD 3 CROSSLAKE, MN
SIGNING & PAVEMENT MARKING PLAN

DATE: 10-31-2024
 SCALE: AS SHOWN
 DRAWN BY: JDS
 CHECKED BY: JDS
 JOB NUMBER: 2020-12042

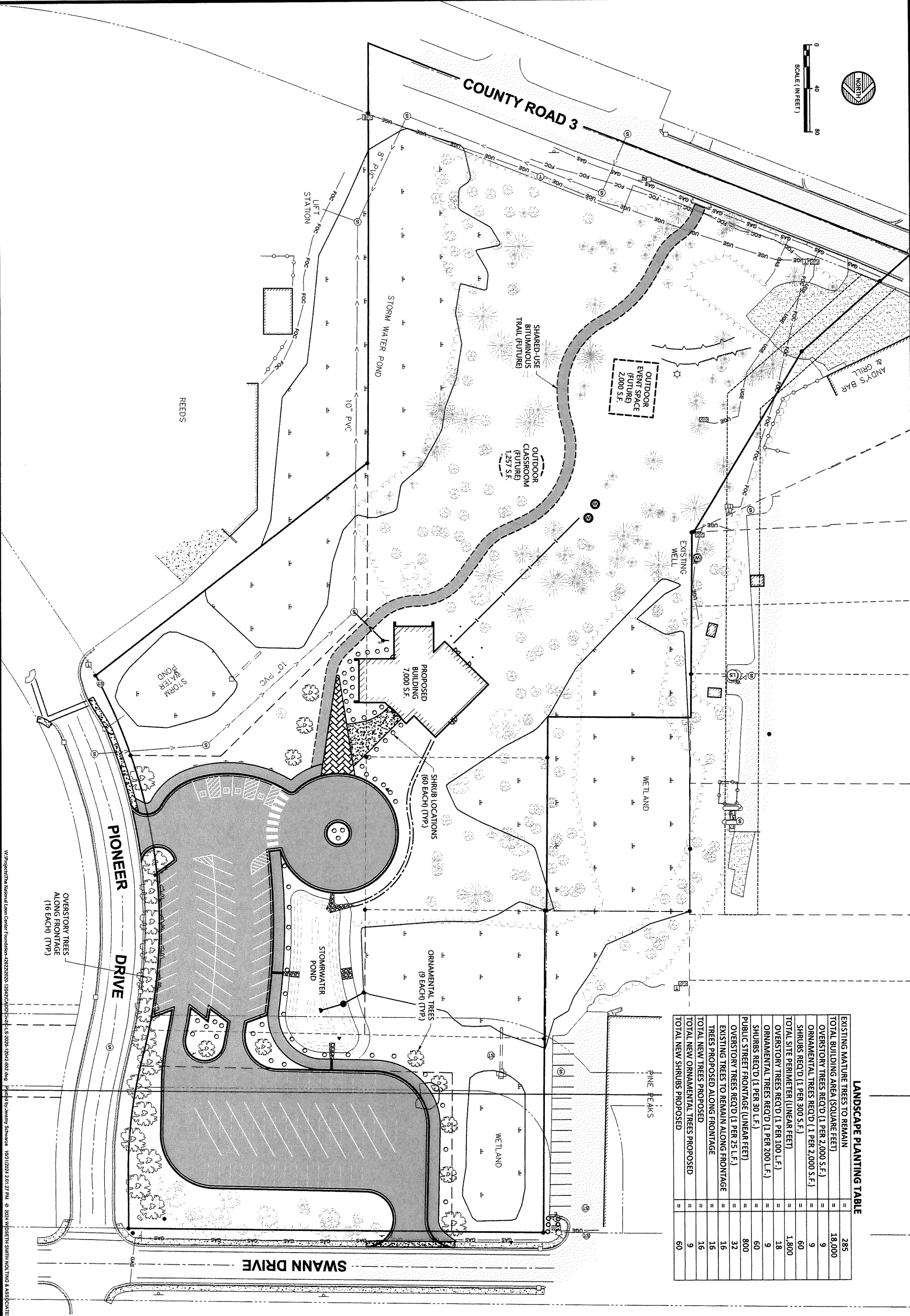
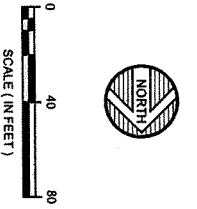
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Jeremy Schwarze
 JEREMY SCHWARZE DATE: 10-31-2024 I.C. NO. 64244



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SHEET NO.
C6.1



LANDSCAPE PLANTING TABLE

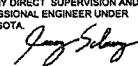
EXISTING MATURE TREES TO REMAIN	=	285
TOTAL BUILDING AREA (SQUARE FEET)	=	18,000
OVERSTORY TREES REQ'D (1 PER 2,000 S.F.)	=	9
ORNAMENTAL TREES REQ'D (1 PER 2,000 S.F.)	=	9
SHRUBS REQ'D (1 PER 300 S.F.)	=	60
TOTAL SITE PERIMETER (LINEAR FEET)	=	1,800
OVERSTORY TREES REQ'D (1 PER 100 L.F.)	=	18
ORNAMENTAL TREES REQ'D (1 PER 200 L.F.)	=	9
SHRUBS REQ'D (1 PER 30 L.F.)	=	60
PUBLIC STREET FRONTAGE (LINEAR FEET)	=	800
OVERSTORY TREES REQ'D (1 PER 25 L.F.)	=	32
EXISTING TREES TO REMAIN ALONG FRONTAGE	=	16
TREES PROPOSED ALONG FRONTAGE	=	16
TOTAL NEW TREES PROPOSED	=	16
TOTAL NEW ORNAMENTAL TREES PROPOSED	=	9
TOTAL NEW SHRUBS PROPOSED	=	60

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NATIONAL LOON CENTER - ACTIVITY #2
 THE NATIONAL LOON CENTER FOUNDATION
 35463 COUNTY ROAD 3 CROSSLAKE, MN
 LANDSCAPE PLAN

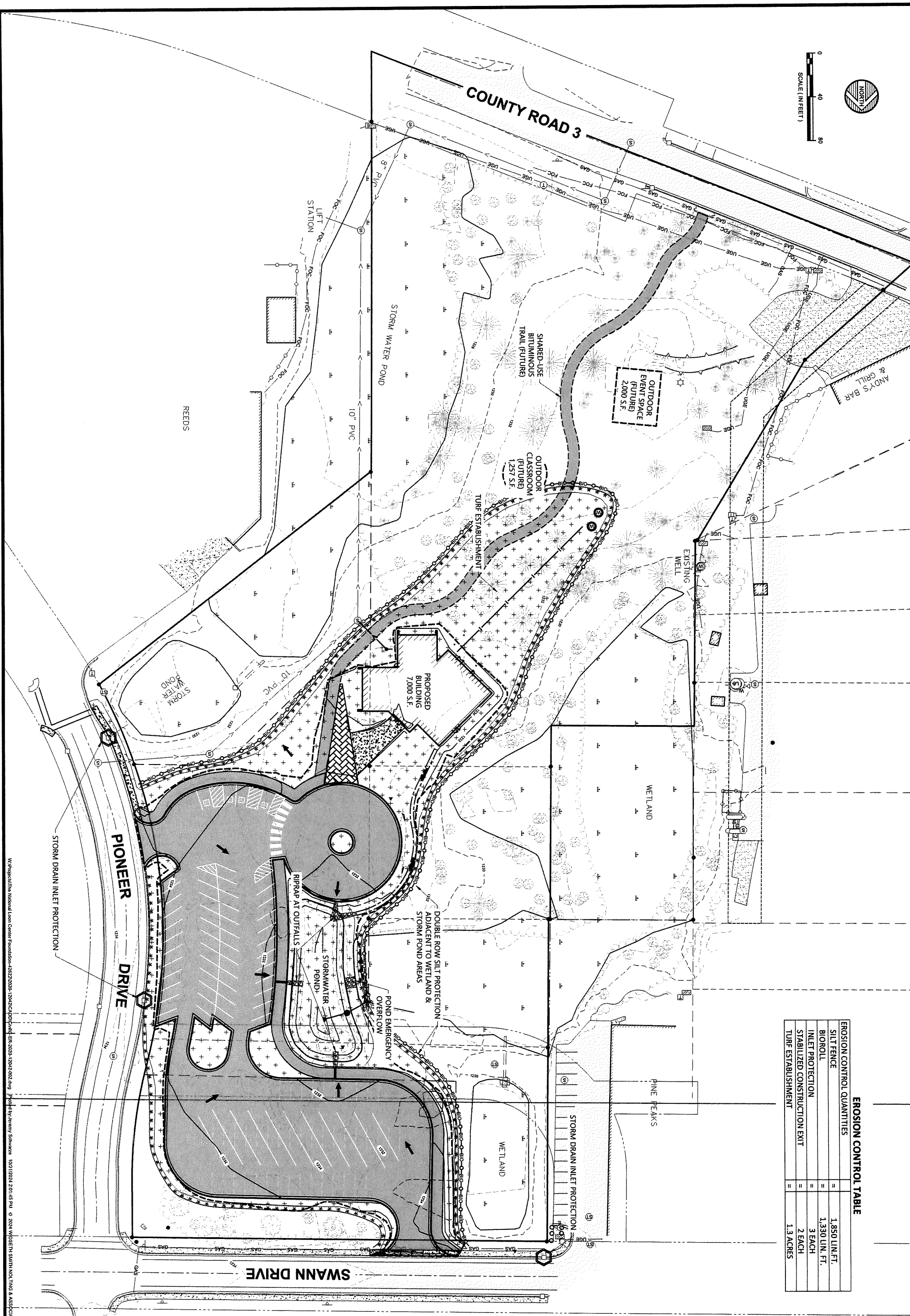
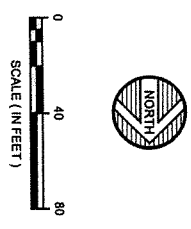
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10-31-2024	AS SHOWN		

DATE: 10-31-2024
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 JEREMY SCHWARZE DATE: 10-31-2024 LIC. NO. 55498

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SHEET NO. C7.1

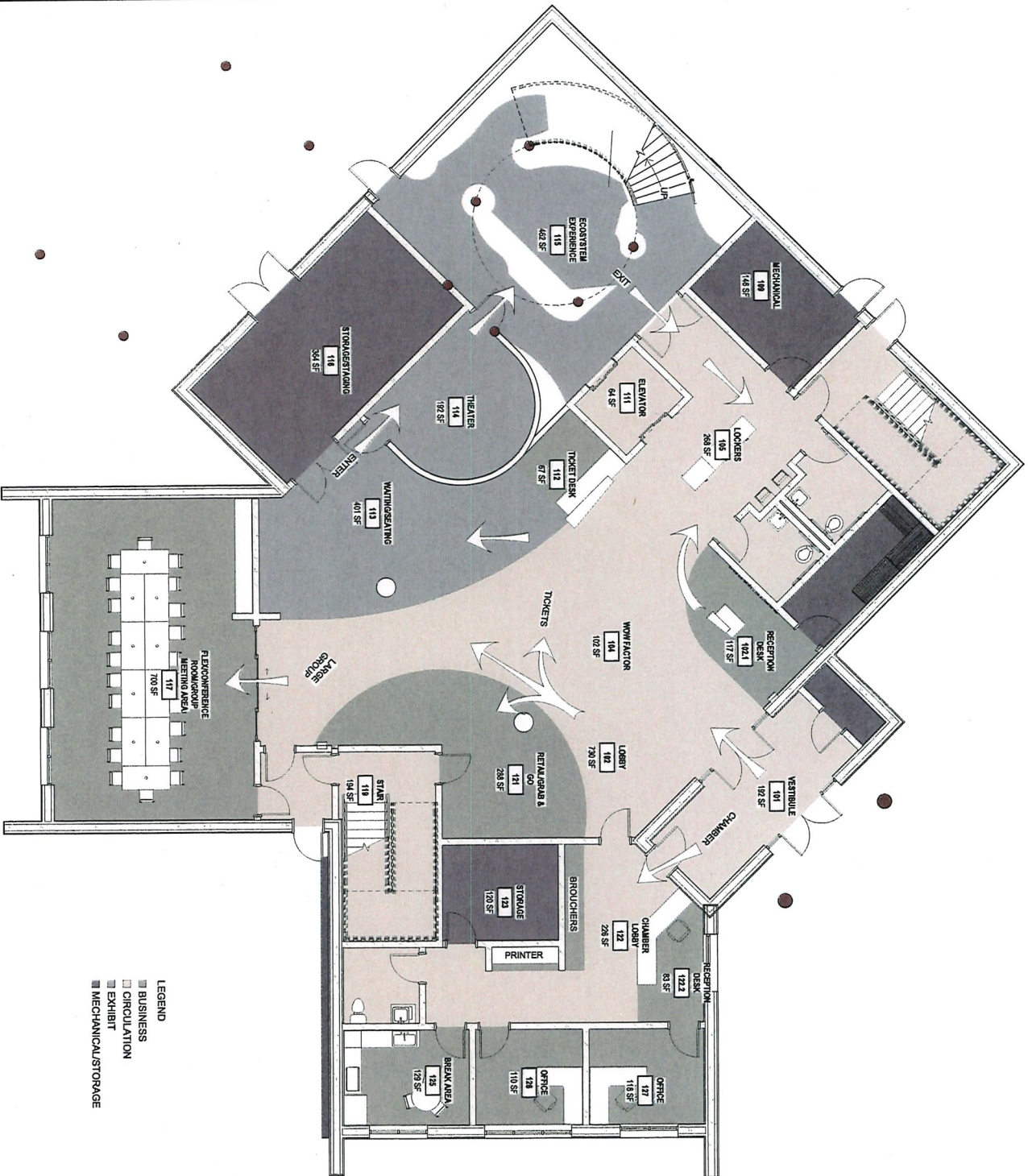


EROSION CONTROL TABLE

EROSION CONTROL QUANTITIES	
SILT FENCE	= 1,850 LIN. FT.
BIOROLL	= 1,330 LIN. FT.
INLET PROTECTION	= 3 EACH
STABILIZED CONSTRUCTION EXIT	= 2 EACH
TURF ESTABLISHMENT	= 1.3 ACRES

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 Project: National Loon Center Foundation - 28222024 - 12024-01.dwg
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1 FIRST LEVEL FLOOR PLAN
1/8" = 1'-0"

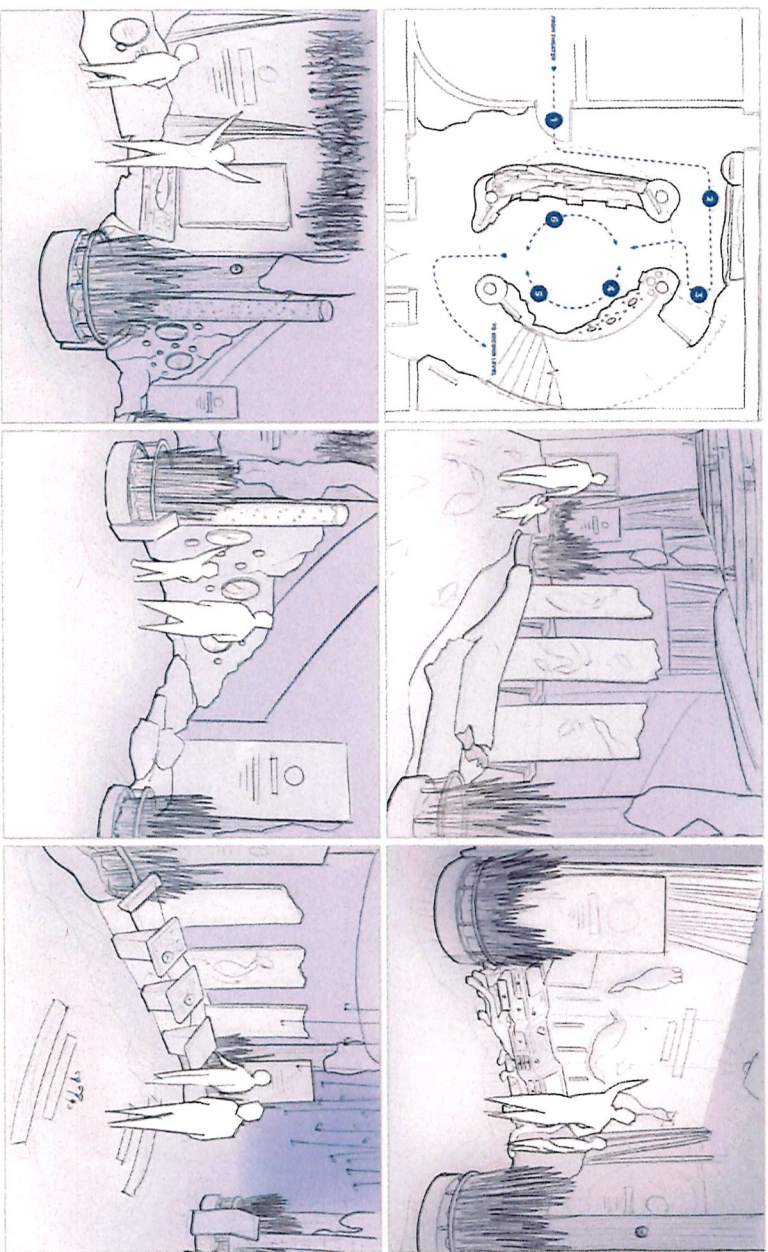
LEGEND
 ■ BUSINESS
 ■ CIRCULATION
 ■ EXHIBIT
 ■ MECHANICAL/STORAGE



Room Number	Room/Space Name	Occupancy Type	Station Foot Area	Occ. Divider	Count	Floor Finish	Wall Finish	Ceiling Finish	Lighting	Function	Adjacencies	FF&E
101	VESTIBULE	N/A	182 SF	0 SF		WALK OFF CARPET	GYPSONUM BOARD	T&G WOOD	LED	MAIN ENTRANCE	LOBBY, RECEPTION RESTROOMS, OFFICE	N/A
101.1	STORAGE	N/A	28 SF	300 SF	0.10	SEALED CONCRETE	GYPSONUM BOARD	T&G WOOD	LED	EXHIBIT/BACK REFRIGERATOR STORAGE	RECEPTION DESK	SHELVING
102	LOBBY	BUSINESS	730 SF	0 SF		TERRAZZO	GYPSONUM BOARD	T&G WOOD	LED	GATHERING AREA FOR RECEPTION DESK, DONOR WALL, WAITING POINT PERSON TO DIRECT VISITORS WHERE TO GO	VESTIBULE, RECEPTION OFFICES, LOBBY, NON FACTOR OFFICES	DESK CHAIR
102.1	RECEPTION DESK	BUSINESS	117 SF	190 SF	0.78	TERRAZZO	GYPSONUM BOARD	T&G WOOD	LED	EXHIBIT/BACK REFRIGERATOR STORAGE	RECEPTION DESK	SHELVING
103	STORAGE	N/A	99 SF	300 SF	0.33	SEALED CONCRETE	GYPSONUM BOARD	T&G WOOD	LED	EXHIBIT/BACK REFRIGERATOR STORAGE	RECEPTION DESK	SHELVING
104	WOW FACTOR ASSEMBLY - DONOR	ASSEMBLY	102 SF	30 SF	3.30	TERRAZZO	GYPSONUM BOARD	T&G WOOD	LED	RECEIVING PRESENTS OF WHAT IS BEING DONATED TO THE CENTER. VISITORS CAN SIGN, VISIT, AND TAKE PHOTOS	RECEPTION DESK, STAIRS, ELEVATOR	EXHIBIT INSTALLMENTS
105	LOCKERS	N/A	268 SF	0 SF		TERRAZZO	GYPSONUM BOARD	T&G WOOD	LED	RESTROOMS, RECEPTION DESK	N/A	N/A
106	RESTROOM	N/A	57 SF	0 SF		TERRAZZO	GYPSONUM BOARD	T&G WOOD	LED	INDIVIDUAL RESTROOM FACILITY	RECEPTION DESK	N/A
107	RESTROOM	N/A	63 SF	0 SF		TERRAZZO	GYPSONUM BOARD	T&G WOOD	LED	INDIVIDUAL RESTROOM FACILITY	RECEPTION DESK	N/A
108	STAIR	N/A	200 SF	0 SF		RUBBER TREADS	GYPSONUM BOARD	T&G WOOD	LED	MECHANICAL/ELECTRICAL	STAIRS, NEAR UTILITIES, EXTERIOR	N/A
109	MECHANICAL	MECHANICAL	146 SF	300 SF	0.49	SEALED CONCRETE	GYPSONUM BOARD	EXPOSED STRUCTURE	LED	MECHANICAL/ELECTRICAL	STAIRS, NEAR UTILITIES, EXTERIOR	N/A
111	ELEVATOR	N/A	64 SF	0 SF		TERRAZZO	GYPSONUM BOARD	T&G WOOD	LED	EXIT AND BUFFER BETWEEN ECOSYSTEM AND RECEPTION DESK	RECEPTION DESK, STAIRS, ELEVATOR	N/A
112	TICKET DESK	BUSINESS	67 SF	190 SF	0.45	TERRAZZO	GYPSONUM BOARD	T&G WOOD	LED	TICKET SALES FOR LOON CENTER EXPERIENCE	NEAR THEATER	DESK, CHAIR, P.O.S.
113	WAITING SEATING ASSEMBLY -	ASSEMBLY	401 SF	30 SF	13.36	TERRAZZO	GYPSONUM BOARD	T&G WOOD	LED	QUEUING AREA FOR THEATER	NEAR LOCKERS, THEATER, AND RECEPTION DESK	LOCKERS, LOUNGE SEATING
114	THEATER	ASSEMBLY -	192 SF	30 SF	6.40	CARPET TILE	GYPSONUM BOARD	T&G WOOD	LED	MESSAGE	NEAR WAITING AND RECEPTION DESK	LOCKERS, LOUNGE SEATING
115	ECOSYSTEM EXPERIENCE	ASSEMBLY -	462 SF	30 SF	15.40	VARIOUS SENSORY MATERIAL, CARPET, SEALED CONCRETE	GYPSONUM BOARD	T&G WOOD	LED	IMMERSIVE EDUCATIONAL EXHIBITS THAT TEACH ABOUT ECOSYSTEMS OF LOONS	CONNECTED TO OTHER LEVELS OF EXHIBIT INSTALLMENTS	N/A
116	STORAGE/STAGING	STORAGE	364 SF	300 SF	1.21	SEALED CONCRETE	GYPSONUM BOARD	T&G WOOD	LED	EXHIBIT STORAGE AND STAGING	NEAR EXHIBIT STORAGE AND STAGING	N/A
117	FLEX/CONFERENCE ROOMING AREA	MEETING	700 SF	20 SF	35.00	CARPET TILE	GYPSONUM BOARD	T&G WOOD	LED	MULTI-PURPOSE BOARD ROOM, CONFERENCE ROOM, LARGE GROUP MEETING AREA	OUTDOOR ACCESS, OPEN TO EXHIBIT STORAGE AND STAGING	TABLES & CHAIRS
118	VESTIBULE	N/A	52 SF	0 SF		WALK OFF CARPET	GYPSONUM BOARD	T&G WOOD	LED	EXIT PRIVATE ENTRANCE FOR OFFICES AND CONFERENCE ROOM	CONFERENCE ROOM, STAIR	N/A
119	STAIR	N/A	194 SF	0 SF		RUBBER TREADS	GYPSONUM BOARD	T&G WOOD	LED	CONFERENCE ROOM	EXTERIOR	N/A
121	RESTROOM & GO	BUSINESS	268 SF	60 SF	4.80	CARPET TILE	GYPSONUM BOARD	T&G WOOD	LED	PLACE TO GRAB SOUVENIRS AND SNACK ITEMS	NEAR WAITING P.O.S. DESK, PASSENGER BY AT EXIT, CONFERENCE ROOM AND OUTSIDE	SHELVING, COOLERS
122	CHAMBER LOBBY	BUSINESS	228 SF	150 SF	1.51	CARPET TILE	GYPSONUM BOARD	T&G WOOD	LED	GATHERING AREA FOR OFFICES	NEAR WAITING P.O.S. DESK, PASSENGER BY AT EXIT, CONFERENCE ROOM AND OUTSIDE	N/A
122.1	BROCHURES	BUSINESS	28 SF	150 SF	0.17	CARPET TILE	GYPSONUM BOARD	T&G WOOD	LED	WALL SPACE FOR COMMUNITY INFORMATION/BUSINESS CARD/BROCHURES	NEAR CHAMBER LOBBY/NEAR ENTRANCE OF CENTER	WALL STORAGE SYSTEM
122.2	RECEPTION DESK	BUSINESS	63 SF	150 SF	0.56	CARPET TILE	GYPSONUM BOARD	T&G WOOD	LED	CHAMBER VOLUNTEER STAFF	NEAR BROCHURES, NEAR CHAMBER LOBBY	DESK, CHAIR
122.3	COOPER	BUSINESS	17 SF	0 SF		CARPET TILE	GYPSONUM BOARD	T&G WOOD	LED	WORK AREA FOR OFFICES	CENTRALLY LOCATED	CORNER CABINETS
123	STORAGE	STORAGE	120 SF	300 SF	0.40	SEALED CONCRETE	GYPSONUM BOARD	T&G WOOD	LED	EXHIBIT/BACK REFRIGERATOR STORAGE	CENTRALLY LOCATED	SHELVING
124	RESTROOM	N/A	62 SF	0 SF		TILE	GYPSONUM BOARD	ACT	LED	INDIVIDUAL RESTROOM FACILITY	ACCESS AFTER HOURS FOR OFFICE	N/A
125	BREAK AREA	BUSINESS	129 SF	150 SF	0.86	TILE	GYPSONUM BOARD	T&G WOOD	LED	SMALL MEETINGS, GATHERING AREA, EMPLOYEE BREAK AREA	NEAR OFFICES	TABLE, CHAIRS, FRIDGE, MICROWAVE, CABINETS, DESK, CHAIR
126	OFFICE	BUSINESS	110 SF	160 SF	0.74	CARPET TILE	GYPSONUM BOARD	T&G WOOD	LED	WALKED IN SINGLE PERSON OFFICE FOR STAFF	NEAR LOBBY	N/A

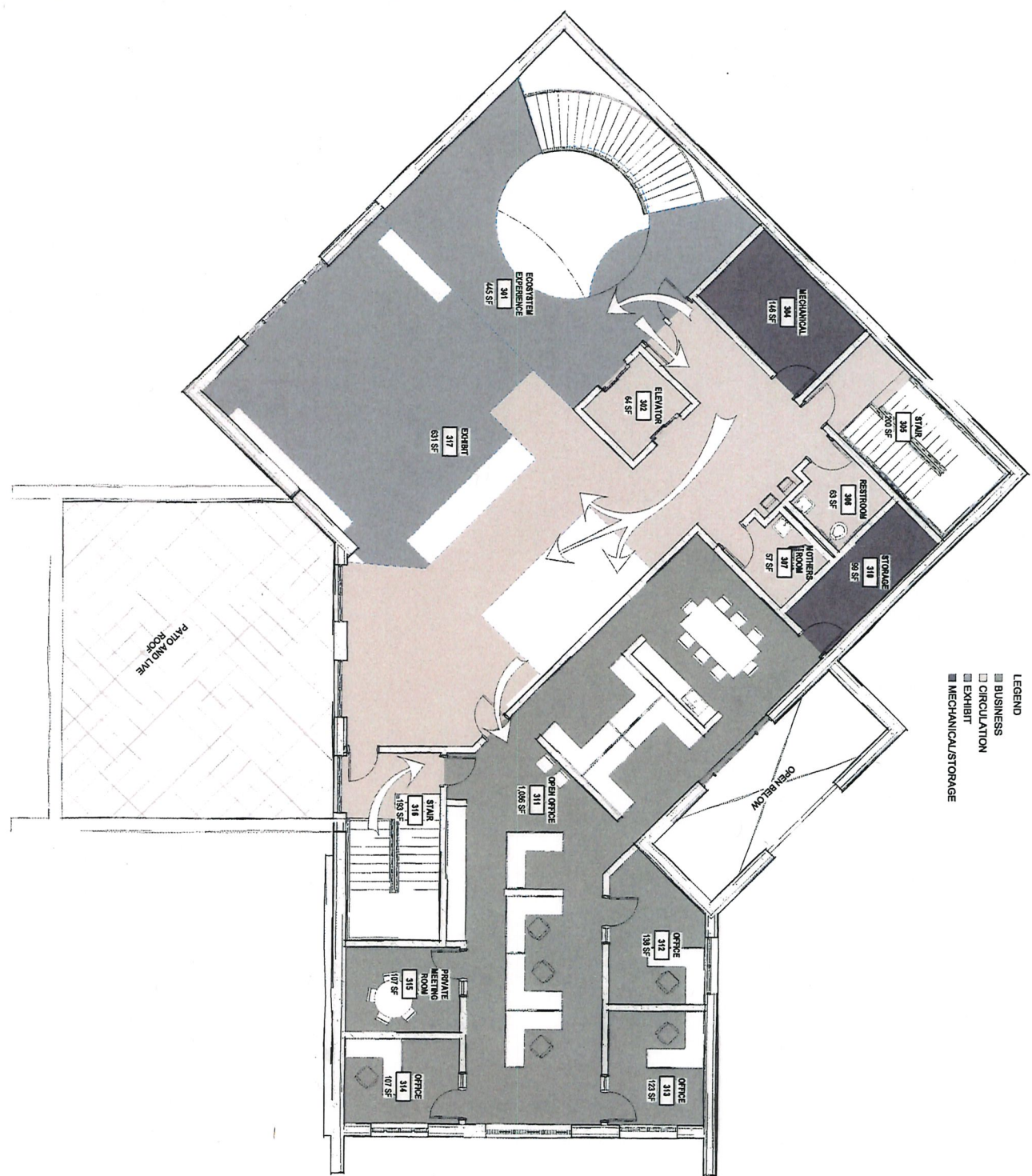
TECHNOLOGY REQUIREMENTS: WIFI THROUGHOUT THE BUILDING TO ACCOMMODATE MOBILE AND STATIONARY DEVICES

MECHANICAL/PLUMBING REQUIREMENTS: GEOTHERMAL/WVP



NATIONAL LOON CENTER - CONCEPTUAL DESIGN

1 THIRD LEVEL FLOOR PLAN
1/8" = 1'-0"

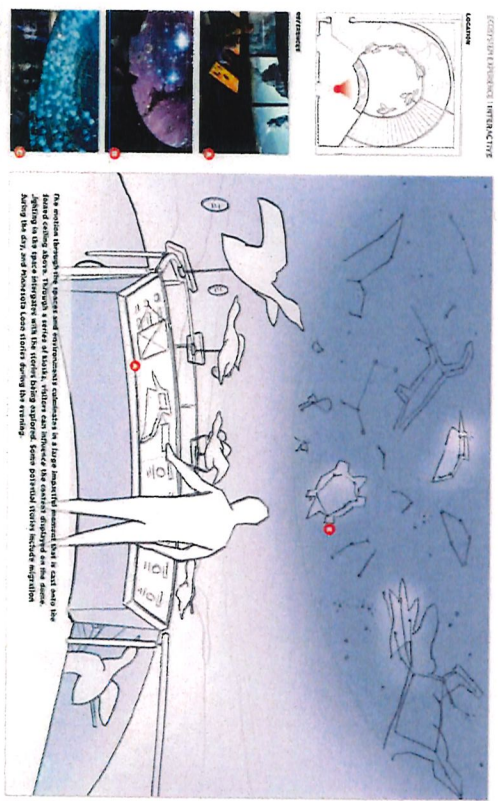


Room Number	Room/Space Name	Occupancy Type	Area Sq. Feet	Doc. Order	Doc. Count	Floor Finish	Wall Finish	Ceiling Finish	Lighting	Function	Accessories	F.F.E.
301	ECOSYSTEM EXPERIENCE	ASSEMBLY - EXHIBIT	445 SF	30	14,16	VARIOUS SENSOR MATERIAL, CARPET, MANDERLIN ETC.	GIPSUM BOARD	T&G WOOD	LED	IMMERSIVE EDUCATIONAL EXHIBITS THAT TEACH ON THE AN ECOSYSTEM OF LOONS	CONNECTED TO OTHER LEVELS OF ECOSYSTEM EXPERIENCE - ELEVATOR, VESTIBULE	EXHIBIT INSTALLMENTS
302	ELEVATOR	N/A	64 SF	0.5F	0.49	CONCRETE	GIPSUM BOARD	EXPOSED	LED	CIRCULATION	MECHANICAL/ELECTRICAL	N/A
304	MECHANICAL	N/A	148 SF	300 SF	0.49	SEALING CONCRETE	GIPSUM BOARD	EXPOSED	LED	CIRCULATION	MECHANICAL/ELECTRICAL	N/A
305	STAR	N/A	200 SF	0.5F	0.5F	RUBBER TREADS	GIPSUM BOARD	T&G WOOD	LED	CIRCULATION, EGRESS	MECHANICAL/ELECTRICAL	N/A
306	RESTROOM	N/A	63 SF	0.5F	0.5F	TILE	GIPSUM BOARD	ACT	LED	INDIVIDUAL RESTROOM FACILITY	CIRCULATION	N/A
307	MOTHERS ROOM	BUSINESS	57 SF	0.5F	0.5F	CARPET TILE	GIPSUM BOARD	ACT	LED	MECHANICAL/ELECTRICAL	MECHANICAL/ELECTRICAL	CHAIR, FRODOE SINK
308	CORRIDOR	N/A	819 SF	0.5F	0.5F	VARIOUS SENSOR MATERIAL ETC.	GIPSUM BOARD	T&G WOOD	LED	CIRCULATION	OFFICES	N/A
310	STORAGE	STORAGE	99 SF	300 SF	0.33	CONCRETE	GIPSUM BOARD	T&G WOOD	LED	EXHIBIT/BACKUP MATERIAL STORAGE	CENTRALLY LOCATED	SHELVING
311	OPEN OFFICE	BUSINESS	1,088 SF	160 SF	1.24	CARPET TILE	GIPSUM BOARD	T&G WOOD	LED	TOUR/DOWN OFFICE SPACE FOR MORE	NEAR OFFICES	SMALL CUBICLES
312	OFFICE	BUSINESS	138 SF	160 SF	0.82	CARPET TILE	GIPSUM BOARD	T&G WOOD	LED	WALLED IN SINGLE PERSON OFFICE FOR STAFF	CENTRALLY LOCATED	DESK CHAIR
313	OFFICE	BUSINESS	123 SF	160 SF	0.82	CARPET TILE	GIPSUM BOARD	T&G WOOD	LED	WALLED IN SINGLE PERSON OFFICE FOR STAFF	NEAR OPEN OFFICE	DESK CHAIR
314	OFFICE	BUSINESS	107 SF	160 SF	0.71	CARPET TILE	GIPSUM BOARD	T&G WOOD	LED	WALLED IN SINGLE PERSON OFFICE FOR STAFF	NEAR OPEN OFFICE	DESK CHAIR
315	PRIVATE MEETING	BUSINESS	107 SF	160 SF	0.71	CARPET TILE	GIPSUM BOARD	T&G WOOD	LED	WALLED IN SINGLE PERSON OFFICE FOR STAFF	NEAR OPEN OFFICE	DESK CHAIR
316	STAR	N/A	183 SF	0.5F	21,05	RUBBER TREADS	GIPSUM BOARD	T&G WOOD	LED	CIRCULATION, EGRESS	EXTERIOR	N/A
317	EXHIBIT	ASSEMBLY - EXHIBIT	631 SF	30	21,05	VARIOUS SENSOR MATERIAL ETC.	GIPSUM BOARD	T&G WOOD	LED	EDUCATIONAL EXHIBIT	CIRCULATION	EXHIBIT INSTALLMENTS

TECHNOLOGY REQUIREMENTS: WIFI THROUGHOUT THE BUILDING TO ACCOMMODATE MOBILE AND STATIONARY DEVICES
MECHANICAL/AIR/CLIPPING REQUIREMENTS: GEOTHERMAL/HP



The loon is a red dot on the wall, indicating the location of the sensor. The sensor is a red dot on the wall.



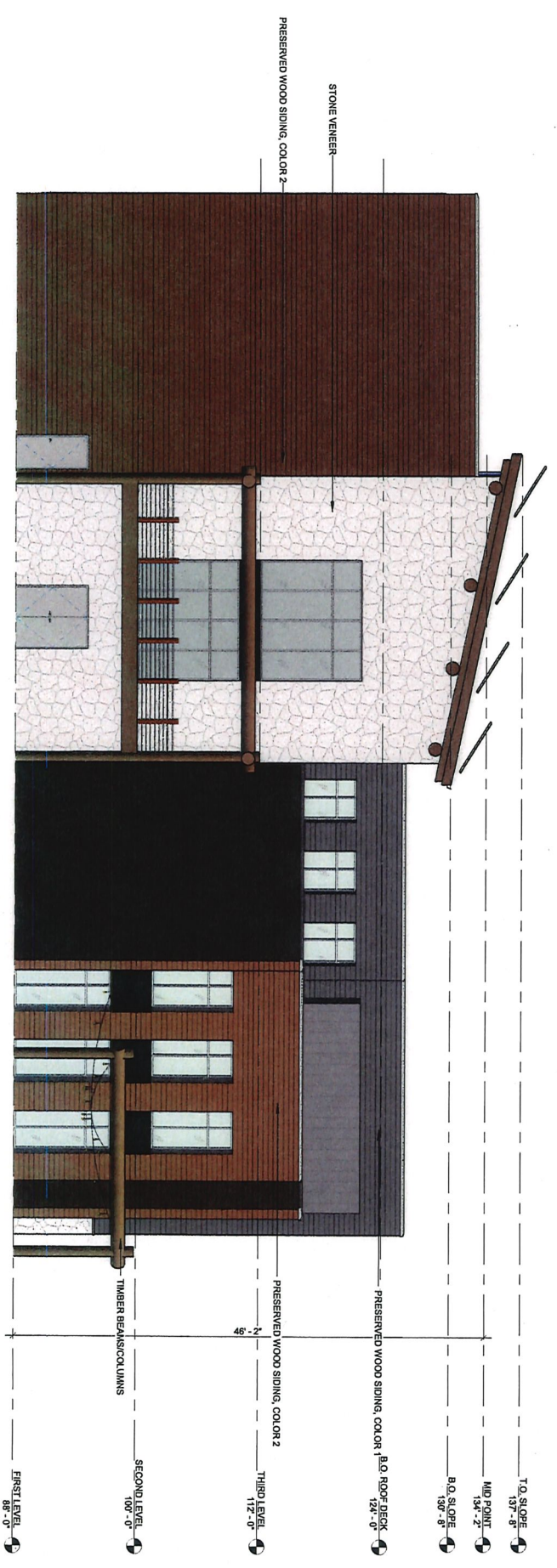
The exhibit is a red dot on the wall, indicating the location of the sensor. The sensor is a red dot on the wall.

1
ELEVATION
1/8" = 1'-0"



T.O. SLOPE 137'-8"
 MID POINT 134'-2"
 B.O. SLOPE 130'-8"
 B.O. ROOF DECK 128'-0"
 PRESERVED WOOD SIDING, COLOR 2
 THIRD LEVEL 112'-0"
 SECOND LEVEL 100'-0"
 FIRST LEVEL 88'-0"
 42'-8"
 46'-2"
 3'-6"
 3'-6"

2
ELEVATION
1/8" = 1'-0"



T.O. SLOPE 137'-8"
 MID POINT 134'-2"
 B.O. SLOPE 130'-8"
 PRESERVED WOOD SIDING, COLOR 1, B.O. ROOF DECK 128'-0"
 PRESERVED WOOD SIDING, COLOR 2
 THIRD LEVEL 112'-0"
 SECOND LEVEL 100'-0"
 FIRST LEVEL 88'-0"
 46'-2"
 46'-2"

10/7/2024 9:14:46 AM © 2022 WIDSETH SURVEYING & ASSOCIATES, INC.

AA.1

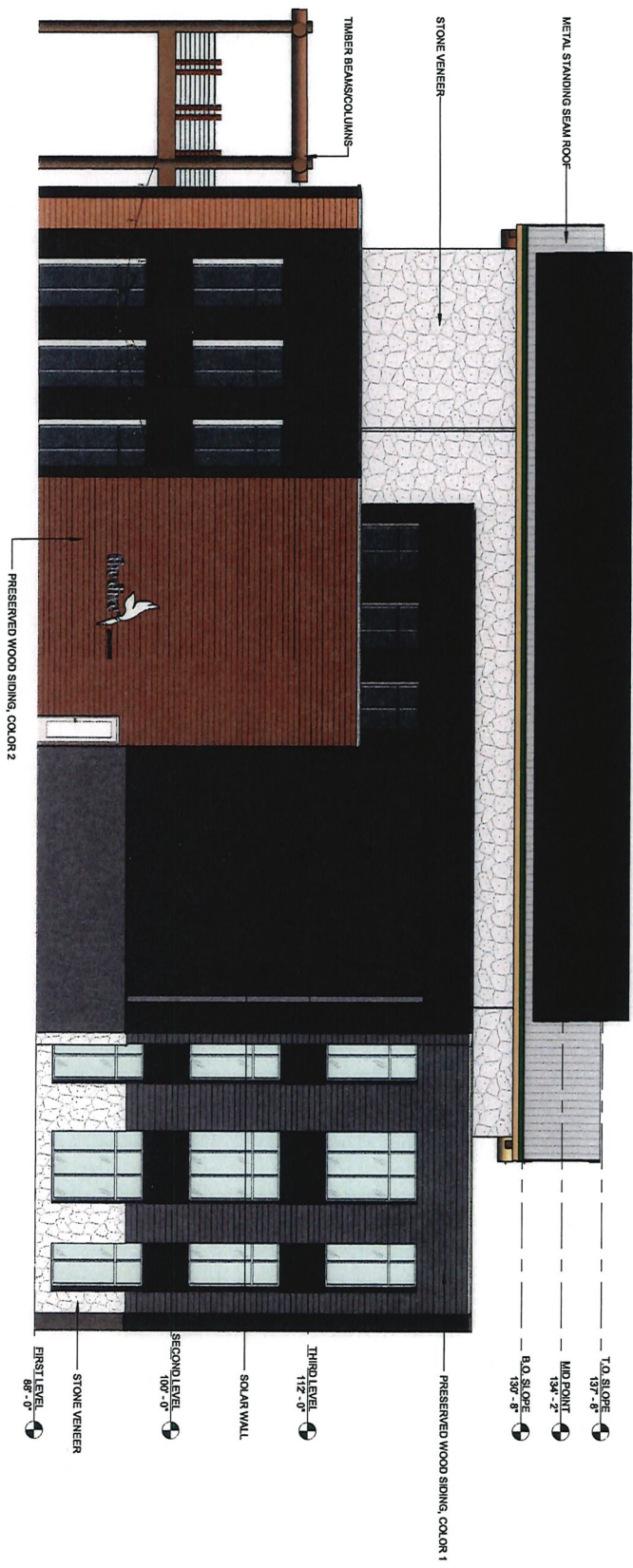
NATIONAL LOON CENTER - ACTIVITY #2
 THE NATIONAL LOON CENTER FOUNDATION
 35463 COUNTY ROAD 3 CROSSLAKE, MN
 BUILDING ELEVATIONS

DATE: OCTOBER 7, 2024
 SCALE: AS NOTED
 DRAWN BY: AGM
 CHECKED BY: MJA
 JOB NUMBER: 2020-12042

DATE	REV#	REVISION DESCRIPTION	BY

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NORTH DAKOTA

WIDSETH
 ARCHITECTS • ENGINEERS • SCIENTISTS • SURVEYORS



1 ELEVATION
1/8" = 1'-0"

T.O. SLOPE 137'-8"
MID POINT 134'-2"
B.O. SLOPE 130'-8"
THIRD LEVEL 112'-0"
SOLAR WALL
SECOND LEVEL 100'-0"
STONE VENEER
FIRST LEVEL 88'-0"

PRESERVED WOOD SIDING, COLOR 2

PRESERVED WOOD SIDING, COLOR 1

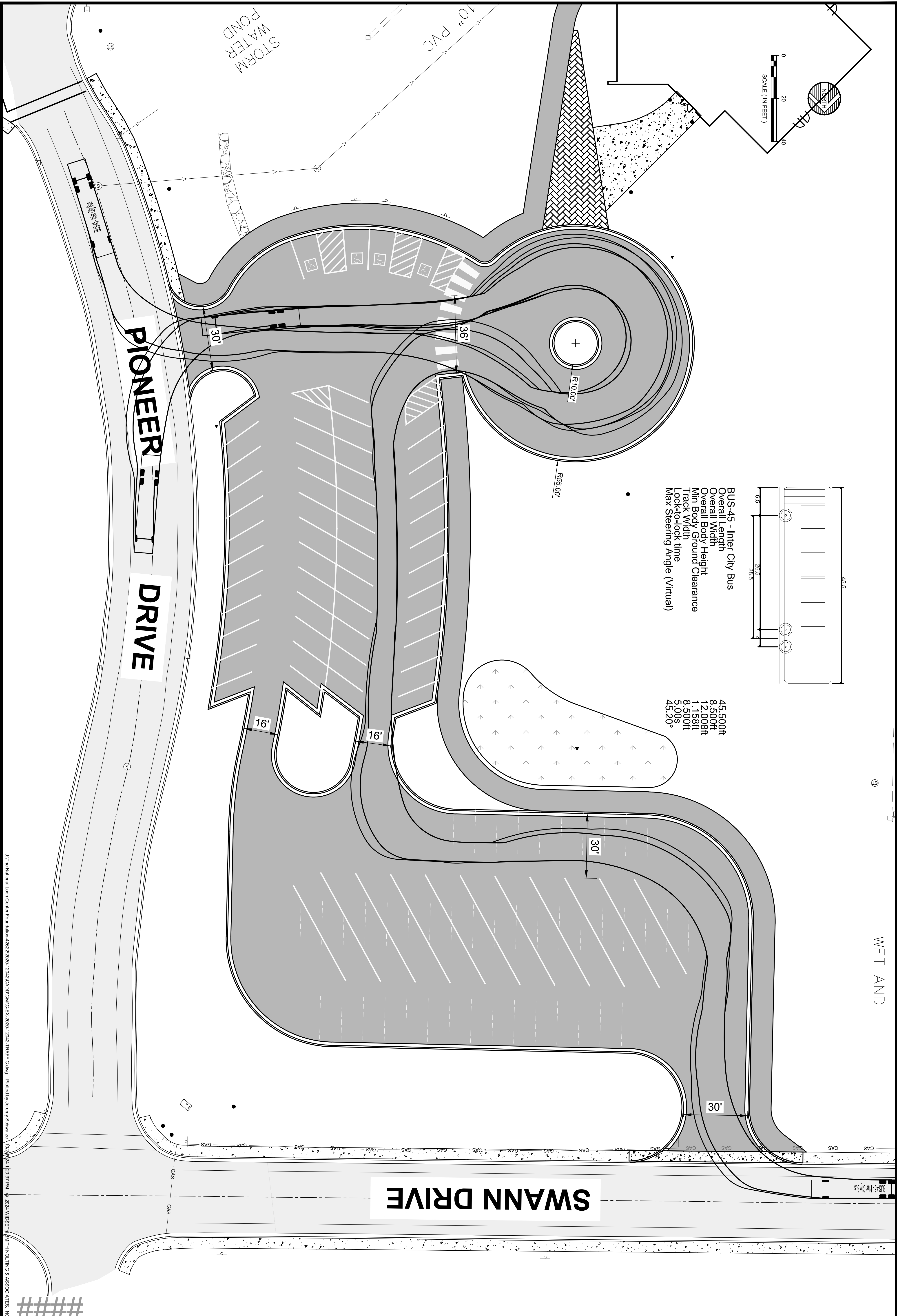
NATIONAL LOON CENTER - ACTIVITY #2
THE NATIONAL LOON CENTER FOUNDATION
35463 COUNTY ROAD 3 CROSSLAKE, MN
BUILDING ELEVATIONS

DATE: OCTOBER 7, 2024
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J:\The National Loon Center Foundation\42922020\12042\CADD\Civil\CX\2020_12042_TRAFFIC.dwg Plotted by Jeremy Sawyers 10/21/24 1:30:37 PM © 2024 WIDSETH SMITH NOELTING & ASSOCIATES, INC.

####

SHEET NO.
EX 1

NATIONAL LOON CENTER
NATIONAL LOON CENTER FOUNDATION
CROSSLAKE, MINNESOTA

DATE: OCT 2024
SCALE: AS SHOWN
DRAWN BY: JDS
CHECKED BY: ####
JOB NUMBER: 2020-12042

DATE	REV	REVISIONS DESCRIPTION	BY

**FOR REFERENCE ONLY
NOT FOR CONSTRUCTION**

WIDSETH
ARCHITECTS ■ ENGINEERS ■ SCIENTISTS ■ SURVEYORS

**NATIONAL LOON CENTER
CROSSLAKE, MN**

**HYDRAULIC DESIGN
SUMMARY REPORT**

For

NATIONAL LOON CENTER SITE DEVELOPMENT

Oct 2024

Prepared by:
Widseth Smith Nolting & Associates
Consulting Engineers, Hibbing, Minnesota

Project # 2020-12042

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.



10/31/2024

Jeremy Schwarze

Lic. No. 55498

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SITE IMPERVIOUSNESS CALCULATIONS WORKSHEET

STORMWATER POND STORAGE WORKSHEET

WEB SOIL SURVEY HYDROLOGIC SOIL MAP

NOAA ATLAS 14 PRECIPITATION FREQUENCY TABLE

HYDROCAD SUMMARY REPORT: MSE 24-HR 100-YEAR RAINFALL ANALYSIS

EXISTING CONDITIONS

LAND USE (COVER TYPE)	IMPERVIOUS AREA	IMPERVIOUS AREA
	(sf)	(acre)
Existing	0.00	0.00
IMPERVIOUSNESS-EXISTING		0.00

PROPOSED CONDITIONS

LAND USE (COVER TYPE)	IMPERVIOUS AREA	IMPERVIOUS AREA
	(sf)	(acre)
Building	7000.00	0.16
Pavement and Curb & Gutter	64600.00	1.48
Sidewalk	2645.00	0.06
Trails (adjacent to parking lot)	6,400	0.15
IMPERVIOUSNESS-PROPOSED		1.85

NEW IMPERVIOUS SURFACE AREA=

1.85

LIVE STORAGE-WATER QUALITY VOLUME

The basin's water quality volume is calculated as a 1.1" (per MIDS) of runoff from the **new** impervious surfaces created by the project.

IMPERVIOUS AREA	DRAINAGE CRITERIA	WATER QUALITY VOLUME	
		(cubic-feet)	(acre-feet)
1.85	1.10	7,392	0.1697

TOTAL POND STORAGE	ELEVATION (FT)	AREA (SF)	DELTA VOLUME (CF)	STORAGE VOLUME (CF)	STORAGE VOLUME (AC-FT)
	1224.00	170	0	0	0.0000
	1225.00	500	321	321	0.0074
	1226.00	1,170	812	1,132	0.0260
	1227.00	3,970	2,432	3,564	0.0818
	1228.00	4,950	4,451	8,015	0.1840
	1229.00	5,990	5,462	13,477	0.3094
	1230.00	7,085	6,530	20,006	0.4593

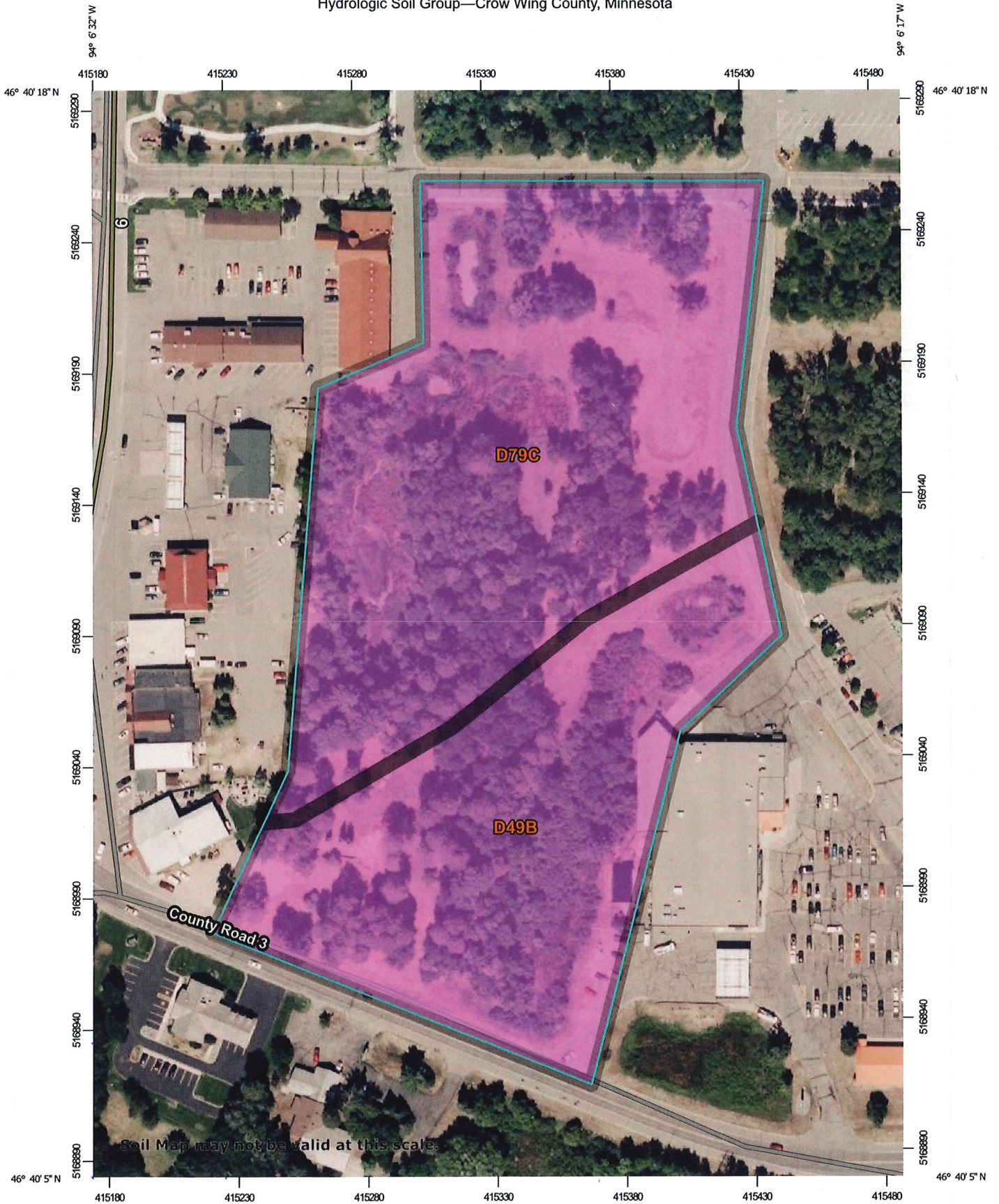
DEAD STORAGE	ELEVATION (FT)	AREA (SF)	DELTA VOLUME (CF)	STORAGE VOLUME (CF)	STORAGE VOLUME (AC-FT)
	1224.00	170	0	0	0.0000
	1225.00	500	321	321	0.0074
	1226.00	1,170	812	1,132	0.0260
	1227.00	3,970	2,432	3,564	0.0818
<i>Perm. Pool</i>	1227.01	3,978			0.0826
	1228.00	4,950	4,451	8,015	0.1840

(meets 3' min.)

LIVE STORAGE	ELEVATION (FT)	AREA (SF)	DELTA VOLUME (CF)	STORAGE VOLUME (CF)	STORAGE VOLUME (AC-FT)	Max. Discharge for 90% Removal (CFS)
	1227.00	3,970	0	0	0.0000	0.52
	1228.00	4,950	4,451	4,451	0.1022	0.64
<i>Water Quality</i>	1228.54	5,510			0.1697	0.72
	1229.00	5,990	5,462	9,913	0.2276	0.78
	1230.00	7,085	6,530	16,443	0.3775	0.92

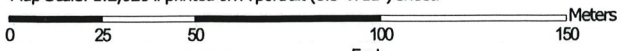
The Permanent Pool Volume (Dead Storage) required is: 0.0826 acre-feet
 The Permanent Pool Volume (Dead Storage) provided is: 0.0818 acre-feet
 The Water Quality Volume (Live Storage) required is: 0.1697 acre-feet
 The corresponding water quality elevation is: 1,228.54 feet

Hydrologic Soil Group—Crow Wing County, Minnesota



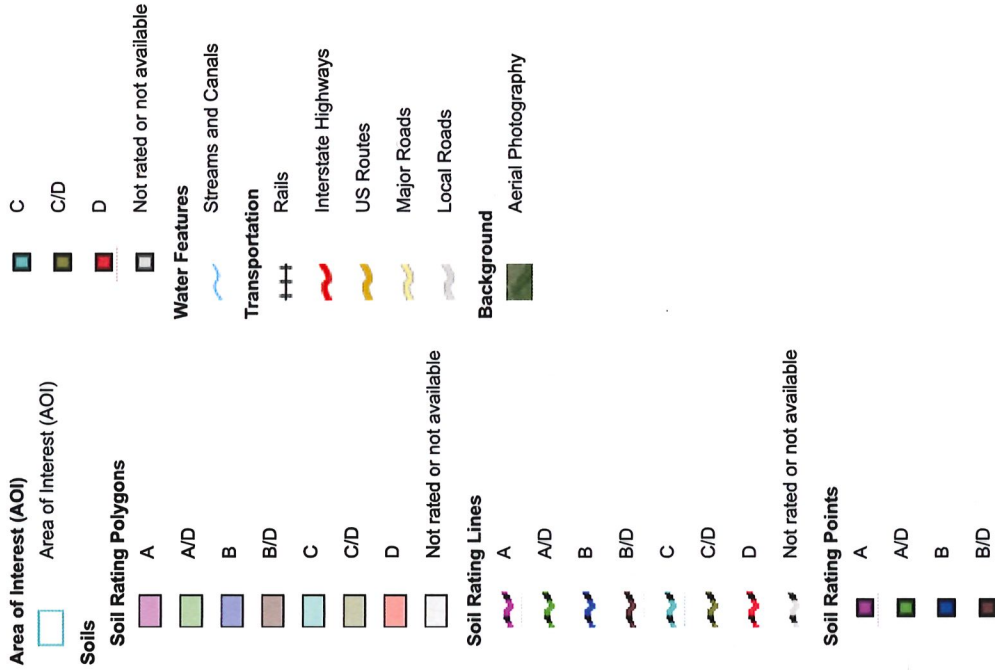
Soil Map may not be valid at this scale.

Map Scale: 1:2,020 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 15N WGS84

MAP LEGEND



MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

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: Crow Wing County, Minnesota
 Survey Area Data: Version 19, Sep 10, 2023

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

Date(s) aerial images were photographed: Jul 13, 2021—Aug 14, 2021

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.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
D49B	Graycalm loamy sand, 2 to 8 percent slopes	A	5.0	41.2%
D79C	Graycalm-Rifle complex, 0 to 10 percent slopes	A	7.2	58.8%
Totals for Area of Interest			12.2	100.0%

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher



* source: ESRI Maps
 ** source: USGS

POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Deborah Martin, Sandra Pavlovic, Ishani Roy, Michael St. Laurent, Carl Trypaluk, Dale Unruh, Michael Yekta, Geoffery Bonnin

NOAA, National Weather Service, Silver Spring, Maryland

[PF_tabular](#) | [PF_graphical](#) | [Maps & aerials](#)

PF tabular

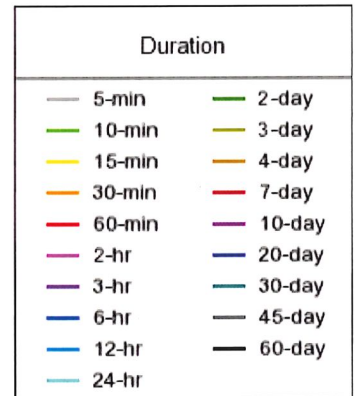
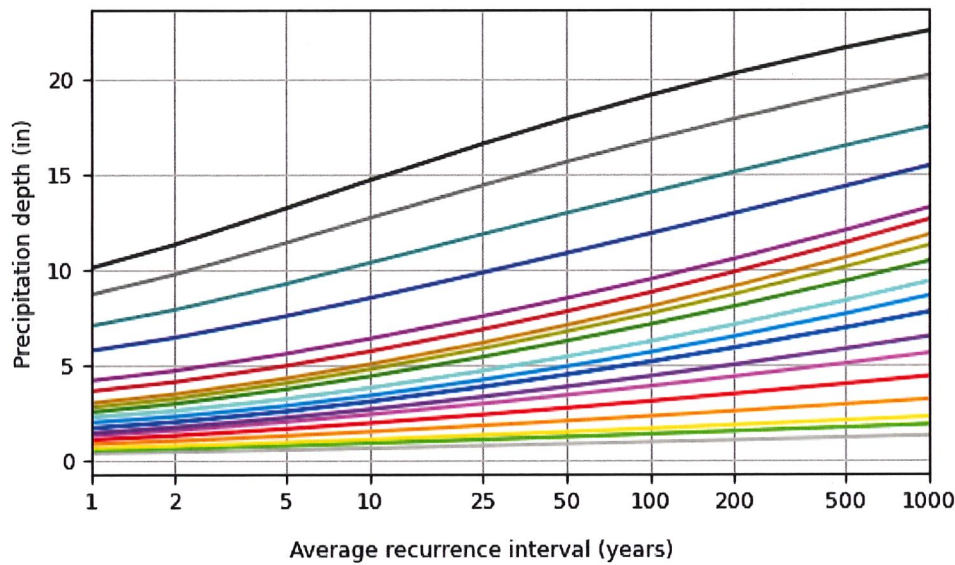
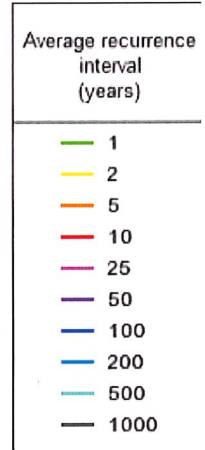
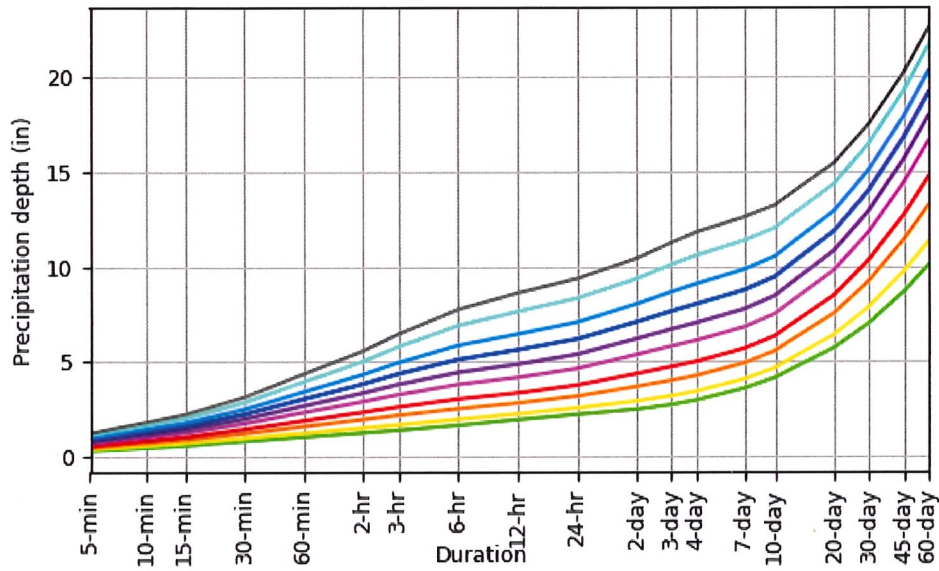
PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches)¹										
Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	0.337 (0.270-0.437)	0.400 (0.320-0.518)	0.504 (0.403-0.655)	0.592 (0.470-0.772)	0.715 (0.546-0.958)	0.812 (0.604-1.10)	0.910 (0.651-1.26)	1.01 (0.690-1.43)	1.15 (0.749-1.65)	1.25 (0.794-1.83)
10-min	0.493 (0.396-0.639)	0.585 (0.469-0.759)	0.738 (0.589-0.959)	0.867 (0.688-1.13)	1.05 (0.800-1.40)	1.19 (0.884-1.61)	1.33 (0.953-1.84)	1.48 (1.01-2.09)	1.68 (1.10-2.42)	1.83 (1.16-2.67)
15-min	0.602 (0.483-0.780)	0.714 (0.572-0.926)	0.900 (0.719-1.17)	1.06 (0.839-1.38)	1.28 (0.975-1.71)	1.45 (1.08-1.96)	1.62 (1.16-2.24)	1.81 (1.23-2.55)	2.05 (1.34-2.95)	2.24 (1.42-3.26)
30-min	0.829 (0.666-1.08)	0.986 (0.790-1.28)	1.25 (0.995-1.62)	1.47 (1.16-1.91)	1.78 (1.36-2.39)	2.02 (1.51-2.74)	2.28 (1.63-3.14)	2.53 (1.73-3.58)	2.88 (1.88-4.16)	3.16 (2.00-4.60)
60-min	1.05 (0.845-1.36)	1.26 (1.01-1.64)	1.61 (1.29-2.10)	1.92 (1.52-2.50)	2.35 (1.80-3.17)	2.70 (2.01-3.67)	3.06 (2.20-4.24)	3.44 (2.35-4.87)	3.96 (2.59-5.72)	4.37 (2.77-6.37)
2-hr	1.28 (1.04-1.63)	1.54 (1.25-1.96)	1.98 (1.60-2.54)	2.37 (1.90-3.04)	2.93 (2.27-3.89)	3.38 (2.55-4.53)	3.85 (2.80-5.26)	4.35 (3.01-6.07)	5.04 (3.34-7.18)	5.58 (3.58-8.02)
3-hr	1.41 (1.16-1.79)	1.70 (1.39-2.15)	2.20 (1.80-2.79)	2.64 (2.14-3.37)	3.29 (2.58-4.35)	3.82 (2.91-5.09)	4.38 (3.20-5.94)	4.97 (3.47-6.89)	5.80 (3.87-8.21)	6.46 (4.18-9.21)
6-hr	1.67 (1.39-2.08)	1.99 (1.64-2.47)	2.55 (2.10-3.18)	3.05 (2.50-3.82)	3.82 (3.04-4.98)	4.45 (3.44-5.85)	5.13 (3.81-6.88)	5.87 (4.15-8.03)	6.91 (4.67-9.65)	7.75 (5.07-10.9)
12-hr	1.96 (1.65-2.40)	2.27 (1.91-2.79)	2.84 (2.38-3.49)	3.37 (2.80-4.16)	4.19 (3.39-5.40)	4.88 (3.83-6.33)	5.64 (4.24-7.45)	6.46 (4.64-8.72)	7.64 (5.24-10.5)	8.61 (5.70-11.9)
24-hr	2.24 (1.91-2.70)	2.58 (2.20-3.11)	3.20 (2.71-3.87)	3.78 (3.18-4.58)	4.65 (3.81-5.89)	5.40 (4.28-6.88)	6.20 (4.73-8.07)	7.08 (5.14-9.41)	8.34 (5.79-11.3)	9.36 (6.28-12.8)
2-day	2.51 (2.16-2.97)	2.94 (2.54-3.49)	3.70 (3.18-4.40)	4.38 (3.74-5.22)	5.39 (4.45-6.68)	6.22 (4.99-7.77)	7.10 (5.47-9.05)	8.04 (5.90-10.5)	9.36 (6.57-12.5)	10.4 (7.08-14.0)
3-day	2.75 (2.40-3.23)	3.21 (2.79-3.77)	4.02 (3.48-4.73)	4.74 (4.08-5.60)	5.82 (4.85-7.14)	6.71 (5.43-8.31)	7.66 (5.95-9.68)	8.67 (6.42-11.2)	10.1 (7.15-13.3)	11.2 (7.70-15.0)
4-day	2.98 (2.61-3.48)	3.45 (3.02-4.02)	4.27 (3.72-4.99)	5.02 (4.34-5.88)	6.12 (5.13-7.47)	7.05 (5.74-8.67)	8.03 (6.28-10.1)	9.09 (6.77-11.7)	10.6 (7.53-13.9)	11.8 (8.11-15.6)
7-day	3.61 (3.19-4.15)	4.09 (3.61-4.70)	4.93 (4.34-5.68)	5.69 (4.98-6.58)	6.82 (5.78-8.20)	7.77 (6.39-9.42)	8.77 (6.93-10.9)	9.85 (7.41-12.5)	11.4 (8.18-14.7)	12.6 (8.76-16.4)
10-day	4.16 (3.71-4.74)	4.68 (4.16-5.33)	5.57 (4.94-6.36)	6.36 (5.60-7.28)	7.51 (6.40-8.92)	8.46 (7.01-10.1)	9.47 (7.52-11.6)	10.5 (7.98-13.2)	12.0 (8.70-15.4)	13.2 (9.25-17.1)
20-day	5.74 (5.19-6.42)	6.42 (5.80-7.19)	7.55 (6.79-8.47)	8.49 (7.59-9.57)	9.81 (8.43-11.3)	10.8 (9.06-12.7)	11.9 (9.54-14.2)	12.9 (9.89-15.8)	14.3 (10.5-18.0)	15.4 (10.9-19.6)
30-day	7.04 (6.42-7.79)	7.88 (7.18-8.74)	9.24 (8.38-10.3)	10.3 (9.32-11.5)	11.8 (10.2-13.5)	12.9 (10.9-14.9)	14.0 (11.3-16.5)	15.1 (11.6-18.2)	16.5 (12.1-20.4)	17.5 (12.5-22.0)
45-day	8.68 (7.98-9.51)	9.73 (8.94-10.7)	11.4 (10.4-12.5)	12.7 (11.5-14.0)	14.4 (12.5-16.2)	15.6 (13.2-17.8)	16.8 (13.7-19.5)	17.9 (13.9-21.3)	19.2 (14.2-23.5)	20.2 (14.5-25.2)
60-day	10.1 (9.32-11.0)	11.3 (10.4-12.3)	13.2 (12.1-14.4)	14.7 (13.4-16.1)	16.6 (14.5-18.4)	17.9 (15.2-20.2)	19.1 (15.6-22.1)	20.3 (15.8-24.0)	21.6 (16.1-26.2)	22.5 (16.3-27.9)

¹ Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS). Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values. Please refer to NOAA Atlas 14 document for more information.

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PF graphical

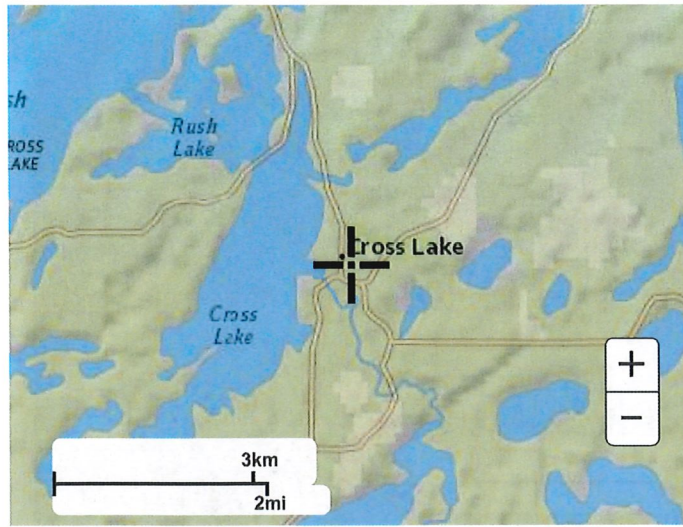
PDS-based depth-duration-frequency (DDF) curves
 Latitude: 46.6705°, Longitude: -94.1063°



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Maps & aerials

Small scale terrain



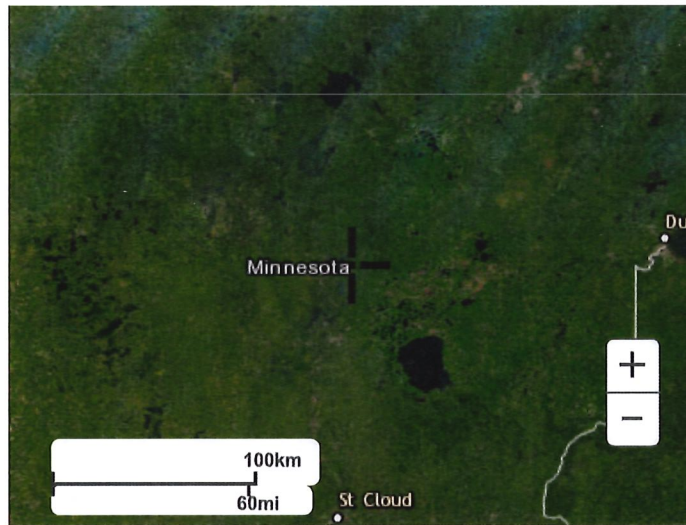
Large scale terrain



Large scale map



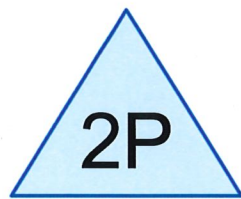
Large scale aerial



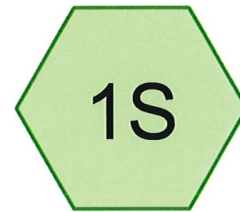
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[US Department of Commerce](#)
[National Oceanic and Atmospheric Administration](#)
[National Weather Service](#)
[National Water Center](#)
1325 East West Highway
Silver Spring, MD 20910
Questions?: HDSC.Questions@noaa.gov

[Disclaimer](#)



Wet Pond



Drainage Area



NLC_HydroCalcs

Prepared by Widseth Smith Nolting

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Project Notes

Rainfall events imported from "Atlas-14-Rain.txt" for 527 MN Crow Wing

NLC_HydroCalcs

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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.195	39	>75% Grass cover, Good, HSG A (1S)
1.483	98	Paved parking, HSG A (1S)
0.161	98	Roofs, HSG A (1S)
0.061	98	Sidewalks (1S)
1.900	92	TOTAL AREA

NLC_HydroCalcs

Prepared by Widseth Smith Nolting

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Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
1.839	HSG A	1S
0.000	HSG B	
0.000	HSG C	
0.000	HSG D	
0.061	Other	1S
1.900		TOTAL AREA

NLC_HydroCalcs

Prepared by Widseth Smith Nolting

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Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.195	0.000	0.000	0.000	0.000	0.195	>75% Grass cover, Good	1S
1.483	0.000	0.000	0.000	0.000	1.483	Paved parking	1S
0.161	0.000	0.000	0.000	0.000	0.161	Roofs	1S
0.000	0.000	0.000	0.000	0.061	0.061	Sidewalks	1S
1.839	0.000	0.000	0.000	0.061	1.900	TOTAL AREA	

NLC_HydroCalcs

Prepared by Widseth Smith Nolting

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Pipe Listing (all nodes)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)	Node Name
1	2P	1,227.00	1,227.00	20.0	0.0000	0.010	0.0	12.0	0.0	

NLC_HydroCalcs

MSE 24-hr 3 100-Year Rainfall=6.20"

Prepared by Wisdeth Smith Nolting

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Time span=0.00-48.00 hrs, dt=0.05 hrs, 961 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: Drainage Area

Runoff Area=82,763 sf 89.74% Impervious Runoff Depth=5.27"
Flow Length=250' Slope=0.0200 '/ Tc=3.2 min CN=92 Runoff=18.20 cfs 0.834 af

Pond 2P: Wet Pond

Peak Elev=1,229.55' Storage=16,931 cf Inflow=18.20 cfs 0.834 af
Primary=5.41 cfs 0.831 af Secondary=0.36 cfs 0.003 af Outflow=5.77 cfs 0.833 af

Total Runoff Area = 1.900 ac Runoff Volume = 0.834 af Average Runoff Depth = 5.27"
10.26% Pervious = 0.195 ac 89.74% Impervious = 1.705 ac

Summary for Subcatchment 1S: Drainage Area

[49] Hint: Tc<2dt may require smaller dt

Runoff = 18.20 cfs @ 12.09 hrs, Volume= 0.834 af, Depth= 5.27"
 Routed to Pond 2P : Wet Pond

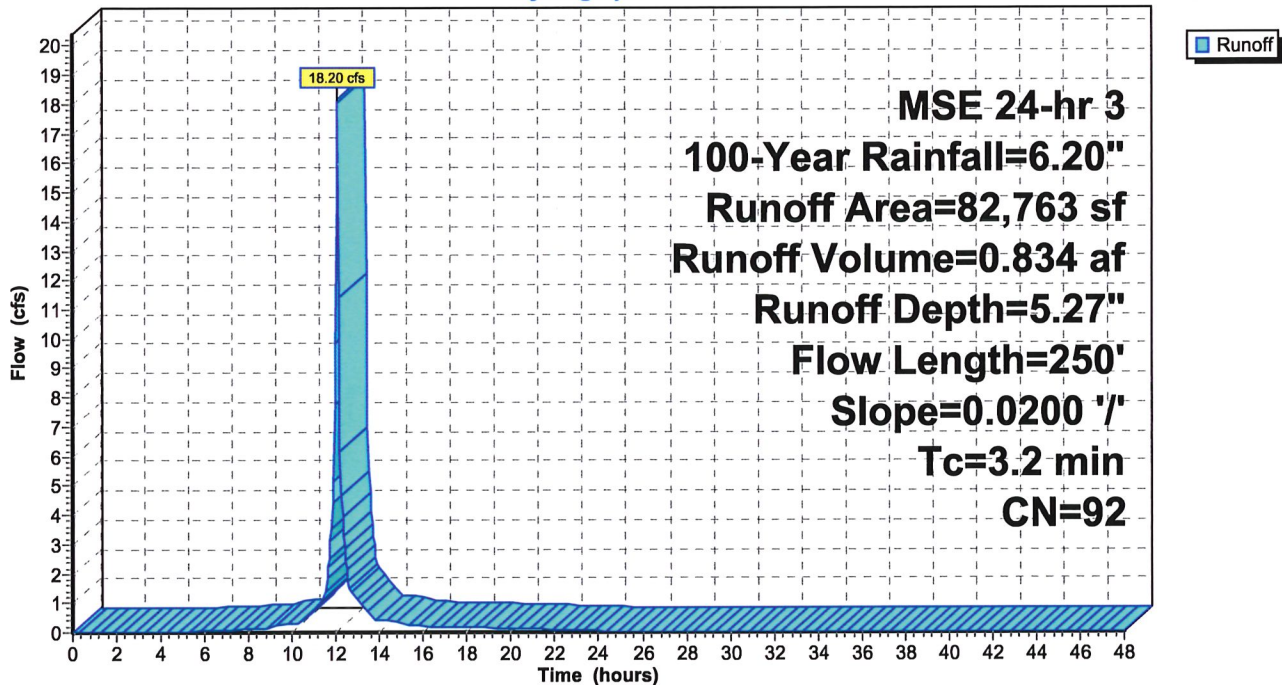
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
 MSE 24-hr 3 100-Year Rainfall=6.20"

Area (sf)	CN	Description
7,013	98	Roofs, HSG A
8,494	39	>75% Grass cover, Good, HSG A
64,599	98	Paved parking, HSG A
* 2,657	98	Sidewalks
82,763	92	Weighted Average
8,494		10.26% Pervious Area
74,269		89.74% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.2	250	0.0200	1.31		Sheet Flow, Time of Concentration Smooth surfaces n= 0.011 P2= 2.00"

Subcatchment 1S: Drainage Area

Hydrograph



NLC_HydroCalcs

MSE 24-hr 3 100-Year Rainfall=6.20"

Prepared by Widseth Smith Nolting

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Summary for Pond 2P: Wet Pond

[58] Hint: Peaked 0.05' above defined flood level

Inflow Area = 1.900 ac, 89.74% Impervious, Inflow Depth = 5.27" for 100-Year event
 Inflow = 18.20 cfs @ 12.09 hrs, Volume= 0.834 af
 Outflow = 5.77 cfs @ 12.22 hrs, Volume= 0.833 af, Atten= 68%, Lag= 7.6 min
 Primary = 5.41 cfs @ 12.22 hrs, Volume= 0.831 af
 Secondary = 0.36 cfs @ 12.22 hrs, Volume= 0.003 af

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
 Starting Elev= 1,227.00' Surf.Area= 3,970 sf Storage= 3,564 cf
 Peak Elev= 1,229.55' @ 12.22 hrs Surf.Area= 6,581 sf Storage= 16,931 cf (13,368 cf above start)
 Flood Elev= 1,229.50' Surf.Area= 6,526 sf Storage= 16,605 cf (13,041 cf above start)

Plug-Flow detention time= 129.2 min calculated for 0.752 af (90% of inflow)
 Center-of-Mass det. time= 67.1 min (831.5 - 764.3)

Volume	Invert	Avail.Storage	Storage Description			
#1	1,224.00'	20,006 cf	Custom Storage (Irregular) Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)	
1,224.00	170	77.0	0	0	170	
1,225.00	500	154.0	321	321	1,590	
1,226.00	1,170	239.0	812	1,132	4,256	
1,227.00	3,970	318.0	2,432	3,564	7,768	
1,228.00	4,950	337.0	4,451	8,015	8,811	
1,229.00	5,990	356.0	5,462	13,477	9,915	
1,230.00	7,085	375.0	6,530	20,006	11,079	

Device	Routing	Invert	Outlet Devices															
#1	Primary	1,227.00'	12.0" Round RCP_Round 12" L= 20.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,227.00' / 1,227.00' S= 0.0000 ' Cc= 0.900 n= 0.010 PVC, smooth interior, Flow Area= 0.79 sf															
#2	Device 1	1,227.00'	6.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads															
#3	Device 1	1,228.00'	4' Conc Weir Wall, Cv= 2.62 (C= 3.28) Head (feet) 0.00 1.00 Width (feet) 4.00 4.00															
#4	Device 1	1,229.00'	Control Structure 48.0-in Head (feet) 0.00 0.15 0.30 0.45 0.60 0.70 0.80 0.90 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 Disch. (cfs) 0.000 0.390 3.440 10.620 19.440 24.500 29.930 35.710 41.820 51.300 59.240 66.230 72.560 78.370 83.780 88.860 93.670															
#5	Secondary	1,229.50'	10.0' long + 4.0 ' SideZ x 10.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64															

Primary OutFlow Max=5.40 cfs @ 12.22 hrs HW=1,229.54' (Free Discharge)

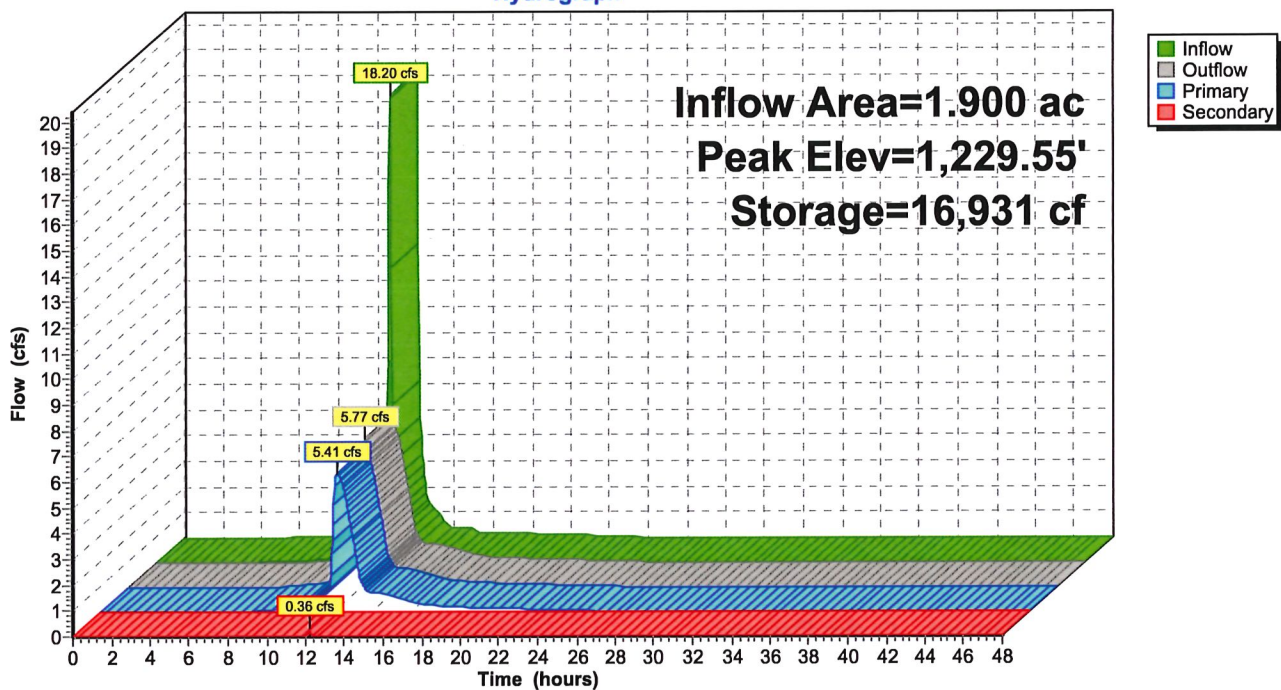
- 1=RCP_Round 12" (Inlet Controls 5.40 cfs @ 6.87 fps)
- 2=Orifice/Grate (Passes < 1.43 cfs potential flow)
- 3=4' Conc Weir Wall (Passes < 19.82 cfs potential flow)
- 4=Control Structure 48.0-in (Passes < 15.79 cfs potential flow)

Secondary OutFlow Max=0.19 cfs @ 12.22 hrs HW=1,229.54' (Free Discharge)

- 5=Broad-Crested Rectangular Weir (Weir Controls 0.19 cfs @ 0.49 fps)

Pond 2P: Wet Pond

Hydrograph



Mike Angland

From: Jeremy Schwarze <Jeremy.Schwarze@widseth.com>
Sent: Wednesday, October 2, 2024 1:27 PM
To: City of Crosslake
Cc: Mike Angland
Subject: RE: NLC - Draft Civil Plan
Attachments: NLC_Traffic-Exhibit_241002.pdf

Categories: Filed by Newforma

Good afternoon, Chief,

The outer radius of the drop-off zone is 55' with a 10' radius inner island. For comparison, this is similar to the nearby community school but with a smaller island (the school island appears to have about a 25' radius).

I've attached a drawing showing the approximate wheel paths and turning movements to hopefully illustrate emergency access from either driveway.

Please let me know if you have any questions or concerns.

Thank you,

Jeremy Schwarze, PE

Civil Engineer
218-274-6058
704 E Howard Street
Hibbing, MN 55746

WIDSETH

Widseth.com

50 Best Places to Work (*Prairie Business Magazine, 2024*)

From: Mike Angland <Mike.Angland@widseth.com>
Sent: Wednesday, October 2, 2024 10:10 AM
To: City of Crosslake <chief1@crosslake.net>; Jeremy Schwarze <Jeremy.Schwarze@widseth.com>
Subject: RE: NLC - Draft Civil Plan

Good morning Jeremy,

Can you provide Chief Lohmiller with information related to a fire truck having access within the circle drop-off area? See below for his question.

Thanks,

Mike Angland, AIA, LEED AP

Architect, VP
218-316-3608

WIDSETH

Widseth.com

File Transfer | [Click here to transfer large files](#)

50 Best Places to Work (*Prairie Business Magazine, 2024*)

From: City of Crosslake <chief1@crosslake.net>
Sent: Wednesday, October 2, 2024 9:43 AM
To: Mike Angland <Mike.Angland@widseth.com>
Subject: Re: NLC - Draft Civil Plan

Mike,

I think that would work. What are you thinking?

How big is the circle in the front. Wondering if I can get a truck in there and make the turn.

Chip Lohmiller
Chief
Crosslake Fire Department
612-868-6744
Chief1@crosslake.net



From: "Mike Angland" <Mike.Angland@widseth.com>
To: "Chip Lohmiller" <chief1@crosslake.net>
Sent: Wednesday, October 2, 2024 9:14:03 AM
Subject: FW: NLC - Draft Civil Plan

Good morning Chief,

See attached revised site plan that we'll be submitting to the City of Crosslake next week for P&Z. You and I talked about having access to the building, would you think having access off towards the CR66 side of the building would work?

Thanks in advance for your help.

Mike Angland, AIA, LEED AP
Architect, VP
218-316-3608

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Widseth.com

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50 Best Places to Work (*Prairie Business Magazine, 2024*)

From: Jeremy Schwarze <Jeremy.Schwarze@widseth.com>

Sent: Monday, September 30, 2024 1:52 PM

To: Mike Angland <Mike.Angland@widseth.com>; Ashley Martel <Ashley.Martel@widseth.com>

Cc: Jillian Reiner <Jillian.Reiner@widseth.com>

Subject: NLC - Draft Civil Plan

Good afternoon,

Please review the attached permit set and let me know your thoughts. I believe the included tables should satisfy most, if not all, of the ordinances. If Jillian has time, we can look at the landscaping piece, but for now, I just included some conceptual values based on the ordinance. For stormwater, I am showing that the project will direct runoff to an infiltration basin as well as the existing storm ponds.

Any questions, let me know! Otherwise, I'll wait to hear about a meeting with the city.

Jeremy Schwarze, PE

Civil Engineer

218-274-6058

704 E Howard Street

Hibbing, MN 55746

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Widseth.com

50 Best Places to Work (*Prairie Business Magazine, 2024*)

From: [Frie, Jacob \(DNR\)](#)
To: [Cheryl Stuckmayer](#)
Cc: [Paul Satterlund](#)
Subject: RE: PC/BOA 11.22.2024
Date: Tuesday, November 5, 2024 8:56:28 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[Agency_Devak.pdf](#)
[Agency CUP-Variance Loon.pdf](#)

Hello Cheryl:

The Minnesota DNR offers the following comment(s) for the National Loon Center CUP and variance within the City of Crosslake:

- As the proposed parking areas and Loon Center itself is located just outside of 1,000 feet of Crosslake and outside of 300 feet from the Pine River, much of the project proposal is outside the Shoreland Area. This means there are almost no areas within the project that need review to ensure heights and uses meets Minnesota Shoreland Rules and your Shoreland District section of the Code/Ordinance. Therefore, the Minnesota DNR has no comments regarding this proposal.

Thank you for your time in this regard.

Sincerely,

Jacob Frie

Area Hydrologist | Division of Ecological and Water Resources

Minnesota Department of Natural Resources

1601 Minnesota Drive

Brainerd, MN, 56401

Phone: 218-203-4367

Email: Jacob.frie@state.mn.us

mndnr.gov



From: Cheryl Stuckmayer <cstuckmayer@cityofcrosslake.org>

Sent: Monday, November 4, 2024 12:54 PM

To: Frie, Jacob (DNR) <Jacob.Frie@state.mn.us>

Cc: Paul Satterlund <psatterlund@cityofcrosslake.org>

Subject: PC/BOA 11.22.2024



Variance Application
 Planning and Zoning Department
 13888 Daggett Bay Road, Crosslake, MN 56442
 218.692.2689 (Phone) 218.692.2687 (Fax) www.cityofcrosslake.org

Receipt Number: 244325

Permit Number: 240223V

Property Owner(s): National Loon Center Foundation

~~Pine Peaks Owners Association~~
 Mailing Address: P.O. Box 642

Site Address: 35463 County Road 3 Crosslake, MN 56442

Phone Number: 970-418-0043

E-Mail Address: jon@nationallooncenter.org

Parcel Number(s): 14210763, 14210614, 14210615, 14210608

Legal Description: Refer to attached additional sheet for Legal Descriptions

Sec 21 Twp 137 Rge 26 27 28

Lake/River Name: N/A

Do you own land adjacent to this parcel(s)? ___ Yes X No

If yes list Parcel Number(s) 14210763

Authorized Agent: Jon Mobeck

Agent Address: 14303 Gould St, Crosslake, MN 56442

Agent Phone Number: 970-418-0043

<u>Variations</u>
(Check applicable requests)
<input type="checkbox"/> Lake/River Setback
<input type="checkbox"/> Road Right-of-Way Setback
<input type="checkbox"/> Bluff Setback
<input type="checkbox"/> Side Yard Setback
<input type="checkbox"/> Wetland Setback
<input type="checkbox"/> Septic Tank Setback
<input type="checkbox"/> Septic Drainfield Setback
<input type="checkbox"/> Impervious Coverage
<input type="checkbox"/> Accessory Structure
<input checked="" type="checkbox"/> Building Height
<input type="checkbox"/> Patio Size
<input type="checkbox"/> _____
<input type="checkbox"/> _____

Signature of Property Owner(s) [Signature] Date 2024-10-07

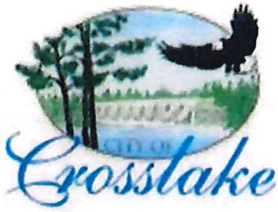
Signature of Authorized Agent(s) Jon Mobeck Digitally signed by Jon Mobeck
 Date: 2024.10.07 10:24:49 -05'00' Date 2024-10-07

- All applications must be accompanied by a signed Certificate of Survey
- Fee \$750 for Residential and Commercial Payable to "City of Crosslake"
- No decisions were made on an applicant's request at the DRT meeting. Submittal of an application after DRT does not constitute approval. Approval or denial of applications is determined by the Planning Commission/Board of Adjustment at a public meeting as per Minnesota Statute 462 and the City of Crosslake Land Use Ordinance.

For Office Use:

Application accepted by CS Date 11-4-24 Land Use District DC

Lake Class na Septic: Compliance na ^{city sewer} SSTS Design na Installation na



Practical Difficulty Statement

Pursuant to City of Crosslake Ordinance Article 8 – Variances may be granted when it is found that strict enforcement of the Land Use Ordinance will result in a “practical difficulty”.

Please answer the following questions regarding the “practical difficulty” for your variance request.

1. Is the Variance request in harmony with the purposed and intent of the Ordinance?

Yes No

Why:

Defer to the Planning Commission/Board of Adjustment

2. Is the Variance consistent with the Comprehensive Plan?

Yes No

Why:

Defer to the Planning Commission/Board of Adjustment

3. Is the property owner proposing to use the property in a reasonable manner not permitted by the Land Use Ordinance?

Yes No

Why:

The proposed use of this property is allowed within the Land Use Ordinance through a Conditional Uses Permit. The National Loon Center will be an event center that will provide adequate off-street parking for the anticipated number of visitors, environmentally responsible site development that will preserve and maintain a majority of the existing trees, and be designed to blend in with the surrounding context from an architectural standpoint.

4. Will the issuance of a Variance maintain the essential character of the locality?

Yes No

Why:

The proposed architectural design and exterior materials will be cohesive with the surrounding buildings. The height of the proposed NLC building will exceed adjacent buildings, however, the proportions of the building do not create an appearance of a large singular structure, that would provide an impending dominance over the neighboring buildings. The placement of the building is centralized within the site, and maintains the existing trees as a buffer to the neighboring buildings.

5. Is the need for a Variance due to circumstances unique to the property and not created by the property owner?

Yes No

Why:

In response to the community and in accordance with their own mission as an organization, the NLC will construct the building and site amenities in a manner that will not remove existing mature trees and be located in an area that requires the least amount of site disturbance. In order to achieve this, the NLC building will have a multi-story building in lieu of a large single-story building, to minimize the building footprint. The existing site also has existing wetlands that will not be impacted as well.

6. Does the need for a Variance involve more than economic considerations?

Yes No

Why:

The need for the variance stems from the NLC's desire to minimize the overall environmental impact of site development for this property.



City of Crosslake Planning Commission/Board of Adjustment

FINDINGS OF FACT

SUPPORTING / DENYING A VARIANCE REQUEST

A Variance may be granted by the Planning Commission/Board of Adjustment when it is found that strict enforcement of the Land Use Ordinance will result in a “practical difficulty” according to Minnesota Statute Chapter 462. The Planning Commission/Board of Adjustment should weigh each of the following questions to determine if the applicant has established that there are “practical difficulties” in complying with regulations and standards set forth in the Land Use Ordinance.

1. Is the Variance request in harmony with the purposes and intent of the Ordinance?

Yes No

Why:

2. Is the Variance consistent with the Comprehensive Plan?

Yes No

Why:

3. Is the property owner proposing to use the property in a reasonable manner not permitted by the Land Use Ordinance?

Yes No

Why:

4. Will the issuance of a Variance maintain the essential character of the locality?

Yes No

Why:

5. Is the need for a Variance due to circumstances unique to the property and not created by the property owner?

Yes No

Why?

6. Does the need for a Variance involve more than economic considerations?

Yes No

Why: