CITY OF HAM LAKE



15544 Central Avenue NE Ham Lake, Minnesota 55304 (763) 434-9555 Fax (763) 434-9599

CITY OF HAM LAKE PLANNING COMMISSION AGENDA MONDAY, SEPTEMBER 23, 2024

CALL TO ORDER: 6:00 p.m.

PLEDGE OF ALLEGIANCE

APPROVAL OF MINUTES: September 9, 2024

PUBLIC HEARING: None

NEW BUSINESS:

1. Jeff Stalberger, MN Developments LLC, requesting Final Plat approval of the plat Swedish Chapel Estates located at 2506 Swedish Drive NE (47 Single Family Residential lots and 3 outlots) in Section 4.

COMMISSION BUSINESS:

1. City Council Update

CITY OF HAM LAKE PLANNING COMMISSION MINUTES MONDAY, SEPTEMBER 9, 2024

The Ham Lake Planning Commission met for its regular meeting on Monday, September 9, 2024 in the Council Chambers at Ham Lake City Hall located at 15544 Central Avenue NE in Ham Lake, Minnesota.

MEMBERS PRESENT: Commissioners Brian Pogalz, Kyle Lejonvarn, Dave Ringler

Jeff Entsminger, David Ross, and Erin Dixson

MEMBERS ABSENT: Commissioner Jonathan Fisher

OTHERS PRESENT: City Attorney Mark Berglund, City Engineer Dave Krugler,

Building Official Mark Jones and Building and Zoning Clerk

Jennifer Bohr

CALL TO ORDER: Chair Pogalz called the meeting to order at 6:00 p.m.

PLEDGE OF ALLEGIANCE:

The pledge of allegiance was recited by all in attendance.

APPROVAL OF MINUTES:

Commissioner Dixson asked that the spelling of her last name be corrected in the motion for adjournment. Motion by Lejonvarn, seconded by Ross, to approve the minutes of the June 24, 2024 Planning Commission meeting with the correction. All present in favor, motion carried.

PUBLIC HEARING:

Roger and Sue Haugen, S & R Developers LLC, requesting Preliminary Plat approval for Enchanted Estates 4th Addition (9 Single Family Residential lots) in Section 14

Roger and Sue Haugen were present. Jason Rud from E.G. Rud & Sons Inc. spoke on behalf of the applicant. Mr. Rud stated this plat is the final phase of the Enchanted Estates subdivision. Mr. Rud stated the preliminary plat of the overall development was approved in 2005 but due to the amount of time that has passed, a refresh of this final phase was done. Mr. Rud stated this phase of the plat will have a total of nine lots, one less than originally approved. Mr. Rud stated two of the lots, east of Austin Street NE, have existing homes on them. Chair Pogalz asked Mr. Rud and Mr. and Mrs. Hagen if they had seen the memos written by the City Engineer and Building Official. All acknowledged that they had. Mr. Haugen stated what the accessory buildings are used for and stated the block building will be taken down. Mr. Haugen expressed his appreciation for the efforts of city staff and appointed and elected officials over the years. Chair Pogalz asked the

commissioners if they had any questions. Commissioner Dixson verified that the parkland dedication fees for Lots 1-7 is \$1850 per lot. Commissioner Lejonvarn asked if all accessory buildings shown on the plans were still on the property. Engineer Krugler stated that they are. Engineer Krugler stated the road infrastructure is in place and septic certifications from 2005 are being used. Engineer Krugler stated a lot line adjustment will be done between Lots 8 and 9 and encroachment agreements are needed for Lots 2, 3 and 6. Block 1 due to septic lines crossing drainage and utilities easements. Engineer Krugler stated the accessory building noted as the existing shop on Lot 8 is oversized but was approved with the original plat; the accessory building (block building) south of the oversized building was to be removed as shown on the attached Enchanted Estates exhibit from 2005. Building Official Jones stated the block building will need to be demolished and the pole structure that will be on proposed Lot 9 needs to have an exterior finish that matches the color, texture and style, as closely as practical, to the surface of the dwelling unit to be compliant with City Code. Building Official Jones stated the steel roof could remain on the pole structure. Commissioner Dixson completed the inspection; a copy which is on file. Commissioner Dixson stated she drove to the site and spoke with Mr. Haugen. Commissioner Dixson stated the accessory buildings that have been mentioned are still on the property. Commissioner Dixson stated she talked with Mr. Haugen about removing one accessory building and bringing the other building into compliance to ensure he was aware of the City's requirements for the plat. Commissioner Dixson stated the street infrastructure is in place and there is a park at the end of the street so this final phase will finish off the development.

Chair Pogalz opened the public hearing at 6:13 p.m. and asked for public comment; with there being none, Chair Pogalz closed the public hearing at 6:14 p.m.

Motion by Dixson, seconded by Entsminger, to recommend approval of the Preliminary Plat of Enchanted Estates 4th Addition in Section 14 as presented by Roger and Sue Haugen of S & R Developers LLC, subject to updating the survey to show all existing accessory building sizes before submission of the Final Plat for approval and updating the survey to show that the southerly building on proposed Lot 8 will be demolished, updating the exterior finish of the accessory building on 16207 Austin Street NE to match the color, texture and style of the like surfaces on the existing dwelling unit, meeting all requirements of the City Engineer and Building Official and meeting all City, County, and State requirements. All present in favor, motion carried. This application will be placed on the City Council's Monday, September 16, 2024 agenda.

NEW BUSINESS:

<u>Joseph Radach of Contour Development LLC, requesting Sketch Plan approval for Elwell</u> Farms (107 Single Family Residential lots and 4 outlots) in Section 36

Mr. Joseph Radach was present. Mr. Radach stated Jesse Neumann from Design Earth Contracting and Steve Jones with Keller Williams were attending on behalf of the project as well. Mr. Radach stated Elwell Farms residential development will have 107 single family lots that range in size from one to 19 acres. Mr. Radach stated access to the development is going to be from the west via 137th Lane NE or the north via Opal Street NE through the Hidden Forest East subdivision. Mr. Radach stated four outlots are

proposed. Mr. Radach stated one outlot is land for a park that he envisions will include some walking trails with benches, scenic overlooks, a playground and some parking along the street. Mr. Radach stated two of the other outlots are for wetland restoration and preservation. Mr. Radach stated they intend to restore the sod fields into native wetland habitat and create a wetland bank with which wetland credits can be offered for other projects in the area that may have wetland impacts that need those credits. Mr. Radach stated many septic borings have been taken and they have confirmed each lot has adequate space for a primary and secondary septic system; livability has been proven on every lot as well. Mr. Radach stated a wetland delineation and threatened and endangered species survey have been completed. Mr. Radach stated the hope is to break ground in the spring. Chair Pogalz asked Engineer Krugler to comment on the development. Engineer Krugler stated the proposed 107 lot development is located on just over 500 acres in section 36. Engineer Krugler stated the sketch plan does not include names for all streets; the unnamed streets will need to follow the naming model of the Anoka County grid system and proposed cul-de-sacs within the development may need to modified as they cannot exceed 1,100-feet in length. Engineer Krugler stated access to the development will be via a connection to 137th Lane NE in the Red Fox Hollow 2nd Addition development and via a connection to Opal Street NE in the Hidden Forest East development. The plan includes extending 138th Avenue NE from Ghia Street NE to connect lots 75 and 76. Engineer Krugler commented on the outlots stating Outlot B will be conveyed to the adjacent 4611 139th Lane NE parcel which will then require the parcel to be addressed from Opal Street NE, Outlot C is a proposed park and Outlots A and D are proposed wetland banks which Attorney Berglund will comment on. Engineer Krugler stated access to Lexington Avenue NE for Lots 75 & 76 is via gravel roads in the Elwell Heights subdivision; it is required that the portions of 138th Avenue NE, Fraizer Street NE and 139th Lane NE between these lots and Lexington Avenue NE be upgraded. Engineer Krugler stated there is a 66-foot wide ingress/egress easement traversing from 138th Avenue NE thru parcels 67, 68, 69, 75 and 76 to the 4611 139th Lane NE that will need to be rescinded and the driveway for 4611 139th Avenue NE will need to be relocated to Opal Street NE. Engineer Krugler stated 138th Avevnue NE is currently a private easement, not a city street, so it will have to be dedicated as part of the plat. Engineer Krugler stated the Park Committee met to discuss parkland dedication for the proposed Elwell Farms development; the Park Committee determined parkland dedication fees will be collected rather than requiring dedication of land or trail easements as residents of the Elwell Farms development will have street access to the nearby parks within the Hidden Forest East Park Addition and Red Fox Hollow 2nd Addition subdivisions. Engineer Krugler stated a 20-foot wide Flint Hills Resources easement (Minnesota Pipeline) traverses through the northerly portion of the sketch plan; written approval from Flint Hills Resources must be provided for streets, driveways and grading within the easement. Engineer Krugler stated there are existing buildings, accessory buildings, farm buildings, wells and septic systems located within the proposed sketch plan and future submittals will need to show that the buildings will be removed. Engineer Krugler stated demolition permits will be required to remove the buildings and documentation will need to be provided to prove the wells have been sealed and the septic systems abandoned. Engineer Kruger stated an FAA recognized flying field for radio-controlled aircraft is located on parcel 36-32-23-14-0001. Engineer Krugler stated research will need to be done to determine if the FAA has any rules related to discontinuing use of the area.

Engineer Krugler stated Trail #84A of the Rice Creek Snowmobile Trail Association traverses thru the easterly portion of the proposed plat. Engineer Krugler stated Coon Creek Watershed approval is required. Engineer Krugler stated the northerly portion of the proposed development is identified as a FEMA Zone A designation; a FEMA Letter of Map Amendment will be required for lots located within Zone A. Engineer Krugler stated a Natural Heritage Information System data review has been completed and a habitat assessment/survey is required. Chair Pogalz stated he likes what he sees in the development in relation to providing additional access points to a few other subdivisions in the area. Chair Pogalz asked if an extension of Bunker Lake Boulevard NE could be considered with the plat. Mr. Radach stated the northwestern corner of the proposed development does not extend far enough west to create an extension of Bunker Lake Boulevard NE and the composition of the land is peat and wetland. There was discussion about improving and extending 138th Avenue NE east to connect with what is currently labeled as Street A on the plans and improving 137th Lane NE from Ghia Street NE east and other potential access points to Lexington Avenue NE. Chair Pogalz stated that another access point out to Lexington Avenue NE should be considered so that residents occupying 107 new homes in the development don't have only two ingress/egress points. Chair Pogalz stated he disagrees with the Park Committee's recommendation to accept monies in lieu of parkland. Chair Pogalz stated this is a large development. Chair Pogalz stated there are ball fields in the central part of the city and several parks with playground equipment throughout the city, but no ball or soccer fields in the eastern side of Ham Lake. Mr. Radach stated they are planning for a park and obtaining credit toward parkland dedication. Engineer Krugler explained parkland dedication options in respect to paying \$2,500 per lot dependent on the ratio of upland vs wetland, dedicating land or a combination of both. Commissioner Lejonvarn asked Mr. Radach if he was working with the Rice Creek Snowmobile Trail Association. Mr. Radach stated he received a call from Mr. Ken Anderson (Mr. Anderson was present.) today but had not had a chance to speak with him. Mr. Radach stated he wasn't familiar with where the trail was within the proposed development but was willing to talk with Mr. Anderson. Chair Pogalz stated if the trail system through the development isn't possible, snowmobilers will have no trail access from the north to the south side of the city and vise versa. There was discussion about a permanent trail being dedicated within the development to be a recreational trail in the summer and a snowmobile trail in the winter. Chair Pogalz asked Mr. Radach to comment on the St. Paul Modelers Radio Controllers Club (SPMRC) use of the airfield. Mr. Radach stated their lease will be terminated. Chair Pogalz asked if the SPMRC was aware that the lease will be terminated. Mr. Radach stated the Elwell's have notified the club that the lease will be terminated. Attorney Berglund stated the City Council supports having wetland banks in Ham Lake and work is being done to codify an ordinance related to wetland banks. Attorney Berglund stated he has been exploring conditions the city will have for developers interested in wetland banking such as requiring a Conditional Use Permit, requiring the dedication of a trail through the wetland bank area, have a fee paid to the city that is a percentage of each wetland bank credit sold as the city anticipates that developers will abandon the land once all credits have been sold and the city will then be responsible for maintaining the land. Mr. Radach guestioned if a trail would be possible in a wetland area as creating an upland trail could impact the wetlands and would create additional expense. There was discussion about the process of gaining approval from the Board of Soil and Water Resources and the Army Corp of Engineers for a

wetland bank, initial restrictions on the sale of credits, oversight of the location, vegetation requirements, etc. Mr. Radach stated he has created wetland bank prospectus to submit to various regulatory agencies for review. Mr. Radach stated he should know in three months whether or not the plan is acceptable. Chair Pogalz reviewed the list of items noted in the September 5, 2024 memo from the City Engineer that need to be addressed. Mr. Radach stated he has noted the items he needs to address. There was additional discussion about these items. Building Official Jones stated that, currently, the City Code does allow wetland banks under a Conditional Use Permit and that the city should update City Code to allow for wetland banks before approving the sketch plan for this development as it could potentially include a wetland bank area. Commissioner Lejonvarn asked if the sketch plan could be approved to allow the developer to continue to address the comments from the City Engineer while the City created the code related to wetland banks. Attorney Berglund stated the City Council supports the creation of wetland banks within the city. Attorney Berglund stated this concept has been studied for the past several months and the plan is to create an ordinance to allow wetland banks. Attorney Berglund stated the ordinance has not been created yet so wetland banks are currently not a permitted use. Attorney Berglund stated once an ordinance is created, it will take some time to hold a public hearing, obtain approval of the ordinance and adhere to statutory timelines for acceptance of the ordinance. Chair Pogalz suggested the application be tabled until the wetland bank ordinance has been approved. Mr. Radach asked if the sketch plan could be approved so they could begin work on a preliminary plat. Attorney Berglund stated his recommendation is to table the application for now. Mr. Radach stated the development team would like to know if the commission is in favor of the project. Attorney Berglund asked Mr. Radach if going forward with the development is contingent on getting approval to have a wetland bank. Mr. Radach stated it was. Attorney Berglund stated his recommendation is to table the application. Commissioner Lejonvarn asked how many acres would be dedicated to the wetland bank in the development. Mr. Radach stated approximately 70 acres. Mr. Radach asked the commissioners if they were generally in favor of the project. All commissioners were of the opinion that they were in favor of the development. Motion by Lejonvarn, seconded by Pogalz, to table Sketch Plan Approval for the plat of Elwell Farms as submitted by Joseph Radach of Contour Development LLC. All present in favor, motion carried.

OLD BUSINESS:

Gary Magnuson requesting Sketch Plan approval for the minor Plat of Magnuson Estates (2 lots) in Section 9

Mr. Magnuson was not present. Chair Pogalz asked Building Official Jones to comment on the plat. Building Official Jones stated he has talked with Mr. Magnuson several times about the corn crib that was converted to a garage. Building Official Jones stated he went to Mr. Magnuson's property to measure the distance between the building and the property line and found that the structure is within the front yard setback. Building Official Jones stated the garage must be removed to come into compliance with City Code. Building Official Jones stated a permit was issued to Mr. Magnuson for an accessory building several years ago under the agreement that the garage would be removed and that did not happen. Building Official Jones stated anytime a resident requests a lot split, their property must be brought into compliance with City Code if something is found to be

non-compliant. Commissioner Lejonvarn asked Building Official Jones what Mr. Magnuson has said about removal of the building. Building Official Jones stated each time he has spoken with Mr. Magnuson he has said the building has been there for years and he is not removing it. Motion by Pogalz, seconded by Dixson, to recommend denial of Gary Magnuson's Sketch Plan approval request for the minor Plat of Magnuson Estates (2 lots) in Section 9, due to the owner not willing to remove the building located in the front yard set-back. All present in favor, motion carried. This application will be placed on the City Council's Monday, September 16, 2024 agenda.

COMMISSION BUSINESS:

City Council Update

Chair Pogalz stated the City Council concurred with the Planning Commission's recommendations to approve the Conditional Use Permit for A Class Sounds and the minor plat Sketch Plan submitted by Entsminger Enterprises, LLC. Chair Pogalz will attend the September 16, 2024 City Council meeting.

ADJOURNMENT:

Motion by Dixson, seconded by Lejonvarn, to adjourn the Planning Commission meeting at 7:20 p.m. All present in favor, motion carried.

Jennifer Bohr Building and Zoning Clerk



PLANNING REQUEST

CITY OF HAM LAKE

15544 Central Avenue NE Ham Lake, MN 55304

Phone (763) 434-9555 Fax (763) 235-1697

Date of Application $8/16/24$	Data of Decaded
pare of Application	Date of Receipt Receipt # Amount \$
Meeting Appearance Dates: Planning Commission	City Council
Please check request(s):	
Metes & Bounds Conveyance	Commercial Building Permit
Sketch Plan	Certificate of Occupancy
Preliminary Plat Approval*	Home Occupation Permit
X Final Plat Approval	Conditional Use Permit (New)*
Rezoning*	Conditional Use Permit (Renewal)
Multiple Dog License*	Other
*NOTE: Advisory Signage is required for land use application also requires a Public Hearin	alterations and future road connections. This ng. Such fees shall be deducted from deposit.
Development/Business Name:	Pevelopments LLC-Swedish Chape
Address/Location of property: Swelish	
Legal Description of property:	9
PIN # 04-32-23-14-0001 Curre	ent Zoning RA Proposed Zoning R
Notes: 47 single family lots	and three outlots
Applicant's Name: Jeff Stalbe	
Business Name: MN Developmen	its LLC
Address 17404 Ward La	
City Andover	State MN Zip Code 55304
Phone 612 799 1471 Cell Phone	612 799 1471 Fax
Email address Stally 68 2 msn.	Lon
You are advised that the 60-day review period req	quired by Minnesota Statutes Chapter 15.99 does
not begin to run until <u>all</u> of the required items hav	
SIGNATURE	DATE 8/16/24
***************************************	********************
- FOR STAFF	USE ONLY-
ACTION BY: Planning Commission	
City Council	PROPERTY TAXES CURRENT YES NO



Office (763) 862-8000 Fax (763) 862-8042

Memorandum

Date:

September 19, 2024

To:

Planning Commissioners

From:

David A. Krugler, City Engineer

Subject:

Swedish Chapel Estates

Introduction:

The Final Plat was received on August 28th, the Title Sheet, Preliminary Plat, Grading, Erosion Control and Tree Protection Plan, Livability Plan, Livability Chart, Removals plan, Street & Storm Sewer Plan & Profile, Intersection & C-D-S Details, Stormwater Pollution Prevention Plan, Detail, Turn Lane Plans and Geotechnical Report were received July 29th, the Livability Chart was received August 8th, and the Storm Sewer Sizing Calculations was received July 2nd for the proposed 47 lot residential development located on the 111.42 acre parcel 04-32-23-14-0001. The parcel is currently zoned Rural Single Family Residential (R-A), per the attached, and the new lots will be zoned Single Family Residential (R-1). The three outlots will remain R-A. All of the prior review comments have been addressed.

Discussion:

The Final Plat generally conforms with the Preliminary Plat that was approved at the June 17th City Council meeting. Anoka County Highway Department approval of the plans on July 8th is attached. The Coon Creek Watershed District (CCWD) conditionally approved the development at the May 13th Board of Managers meeting. The attached amended CCWD Permit was issued on August 8th. The project conforms to the Upper Rum River Watershed Management Organization rules for storm runoff and wetland buffer requirements.

The CCWD review for potential impacts to state-listed species and other rare features found that several state endangered plants have been found and Blanding's turtles have been reported in the vicinity of the proposed project and may be encountered on site. If during construction Blanding's turtles are encountered the contractor is to move them by hand out of harm's way. Otherwise, the turtles are to be left undisturbed. The plants that are within the parcel are not shown to be disturbed and will not require a taking permit. There is an inactive eagle nest located on Lot 4 Block 1. The US Fish and Wildlife recommends that a permit be requested for any disturbance within 100-feet of the nest. A letter discussing the project and the recommendations made by the US Fish and Wildlife agency is attached.

Swedish Drive was shown to be relocated north of the current alignment by approximately 140 feet. An exhibit for vacation of the existing Swedish Drive roadway easement is attached. All utilities within the existing right-of-way have been removed and new utilities will be installed during the project. The Swedish Drive roadway easement vacation public hearing will occur on the October 7th Council meeting.

The septic certification has been received by Tradewell that each of the proposed lots will support two standard septic systems in accordance with Minnesota Rules 7080. The Lot 3 Block 3 septic area was disturbed during construction and has been recertified to supporting two standard septic systems to the satisfaction of the Building Official. The Braun Geotechnical Exploration Report, dated July 25th, adequately addressed prior review comments.

A 15-foot-wide trail easement, per the attached will be required on Lots 1, 3, 4, 5, 6, 7, 8 and 9 of Block 1 and Lots 1, 3 and 4 of Block 3. The June 17th City Council approval required a 20-foot-wide easement. After further discussion with the Developer, it is recommended to reduce the 20-foot requirement to a 15-foot trail easement to match other developments along County Roadways. The Developer is to record the trail easement deeds with Anoka County immediately after recording the Plat. The Development Agreement will stipulate that no building permits will be issued on any lots until proof of recording the trail deeds is received. In addition, parkland dedication fees will be collected rather than parkland dedication. The trail easement will be a credit toward those fees.

Outlots A, B and C will be required to be conveyed to adjacent properties within the Development Agreement. The Development Agreement will stipulate that no building permits will be issued on any lots until proof of outlot conveyance is received.

FEMA Letters of Map Amendments (LOMA) are required for Lots 8 and 9 of Block 1; Lots 4 thru 13 of Block 2; and Lots 7, 8, 9, 10, 13, 14, 15, 20 and 21 of Block 3. The Development Agreement will stipulate that that no building permits will be issued until the LOMAs is approved by FEMA. An Encroachment Agreement will be required due to the Lot 6, Block 3 septic sewer pipe that will cross the drainage and utility easement.

Recommendations:

It is recommended that the Final Plat of Swedish Chapel Estates be recommended for approval, contingent on the vacation of the Swedish Drive roadway easement.

KNOW ALL PERSONS BY THESE PRESENTS: That MN Developments LLC, a Minnesota limited liability company, owner of the following described property:

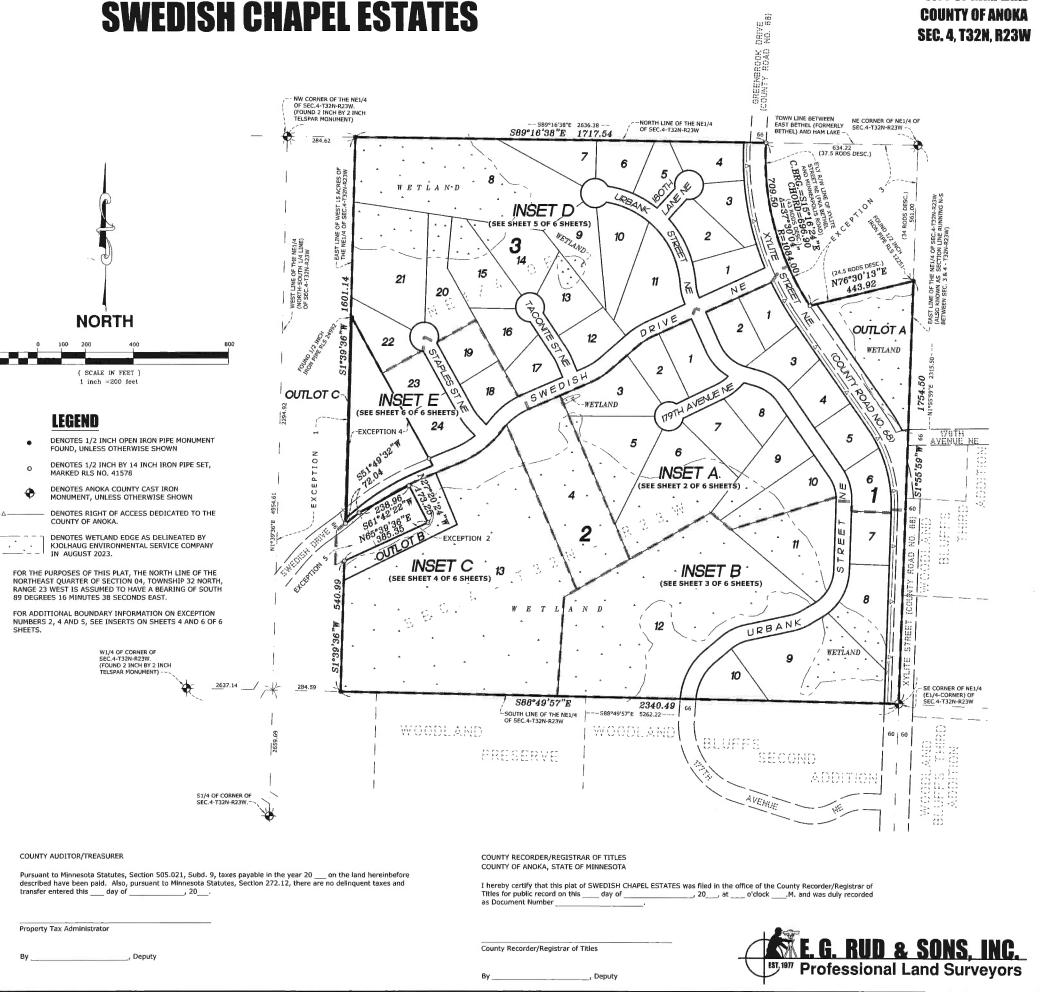
The Northeast Quarter of Section 4, Township 32, Range 23, excepting the following described tracts of land:

- The West 15 acres of the said Northeast Quarter of Section 4, Township 32, Range 23, heretofore sold and deeded to the Swedish Lutheran Society.
- 2. A plot of ground, commencing at a point 23.49 chains South and 5.15 chains East (Variation 8 degrees 51 minutes in 1887) of Quarter corner on North side of Section 4, Township 32, Range 23; thence South 29 degrees East (Variation 8 degrees 51 minutes in 1887) 9 1/2 rods, to a tamarac state, thence North 64 degrees East, 14 1/2 rods; thence North 29 degrees West, 10 1/2 rods; thence South 60 1/2 degrees West, 14 1/2 rods to point of commencement, containing 1 acres, more or less, being a part of the Southwest Quarter of Northeast Quarter of Section 4, Township 32, Range 23.
- 3. Commencing at the Northeast corner of Section 4, Township 32, Range 23 and running thence West on and along town line between Towns of Bethel and Ham Lake a distance of 37 1/2 rods to East boundary line of Bethel and Minneapolis Road so called; thence in a Southerly direction on and along East road limit of said Bethel and Minneapolis Road as now located a distance of about 43 rods; thence in an Easterly direction a distance of about 24 1/2 rods to Intersect the Section line running North and South between Sections 3 and 4 in said Township 32 and Range 23 at a point on said Section line is distance South from said Northeast comer of said Section 4, 34 rods; thence North on and along said Section line to place of commencement being a part of the Northeast Quarter of Northeast Quarter of Section 4, Township 32, Range 23, containing about 7 acres.
- 4. That part of the Northeast Quarter of Section 4, Township 32, Range 23, described as follows: Commencing at a point 289 feet East and 732 feet North of the Southwest corner of said Northeast Quarter; thence Northeasterly along the center of the road 424 feet; thence Northwesterly 701 feet to the point, which is 289 feet East of the West line of the said Northeast Quarter; thence South to the point of beginning.
- 5. Commencing at a point 1550.34 feet (23.49 chains) South and 339.9 feet (5.15 chains) East of the Quarter corner on the North side of Section 4; thence South 29 degrees East for 156.75 feet; thence South 64 degrees West for 187.4 feet; thence North, parallel with and 247.5 feet East of the Quarter Section line for 142.15 feet to the Southerly line of a public road; thence North 50 degrees 10 minutes East along said Southerly road line to the point of beginning, also all right of title in said adjacent public road to the center line thereof, Anoka County, Minnesota.

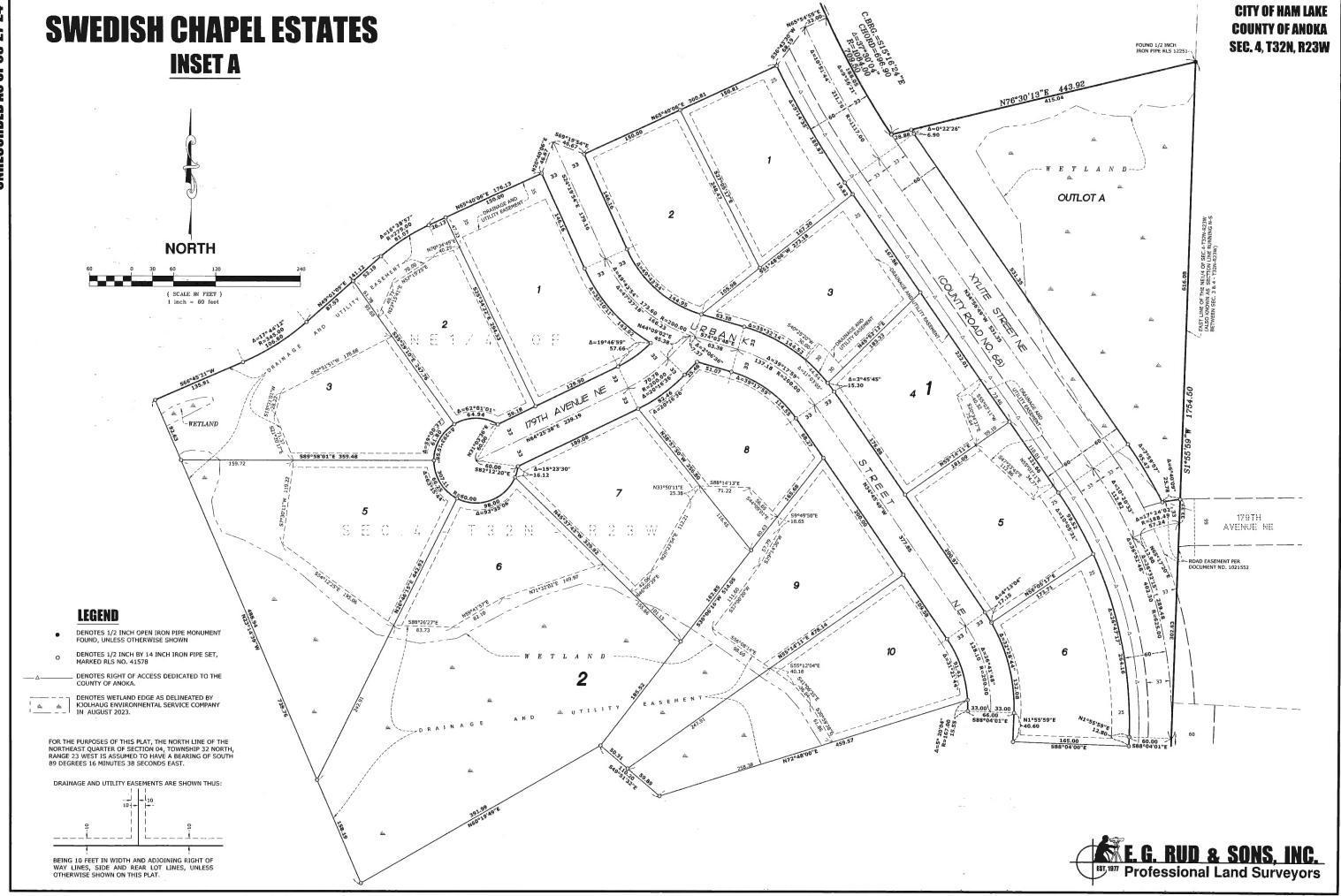
Has caused the same to be surveyed and platted as SWEDISH CHAPEL ESTATES and does hereby dedicate to the public for public use the public ways and the drainage and utility easements as shown on this plat. Also dedicating to the County of Anoka the right of access onto County Road No. 68 as shown on this plat.

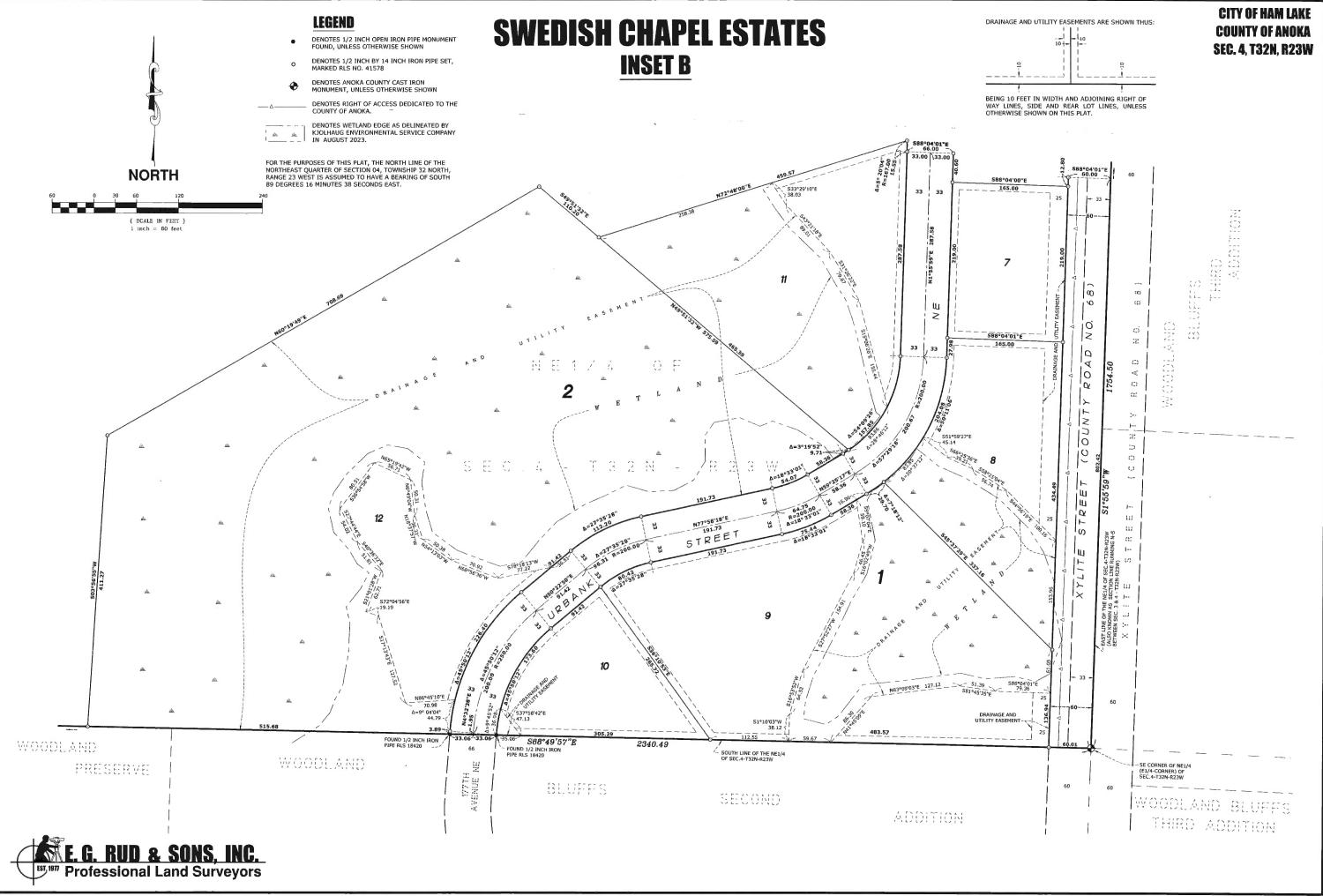
MN DEVELOPMENTS LLC			
Jeffrey A. Stalberger, Co-	Administrator		
STATE OF COUNTY OF	_		
This instrument was ackn Co-Administrator of MN D	owledged before me this of evelopments LLC, a Minnesota	day of, 20 limited liability company.	_ by Jeffrey A. Stalberger
		(Signature)	
		_ (Print Name)	
Notary Public,	County, Minnesota	, (Time Harrie)	
My Commission Expires			
shown and labeled on this Dated this day of			
Jason E. Rud, Licensed La Minnesota License No. 41		-	
STATE OF MINNESOTA			
COUNTY OF			
This instrument was ackn	owledged before me this da	ay of, 20 i	y Jason E. Rud.
		_ (Signature)	
		(Print Name)	
Notary Public,	County, Minnesota	* *	
My Commission Expires _ CITY COUNCIL, CITY OF I			
This plat of SWEDISH CH Minnesota at a regular m with the provisions of Mir	APEL ESTATES was approved ar eeting thereof held this da inesota Statutes, Section 505.0	nd accepted by the City Council o by of, 20, a 3, Subd. 2.	f the City of Ham Lake, and said plat is in complia
City Council, City of Ham	Lake, Minnesota		
Ву	Mayor	Ву	Clerk
By	Mayor	Ву	Clerk
COUNTY SURVEYOR		By	

Anoka County Surveyor

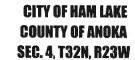


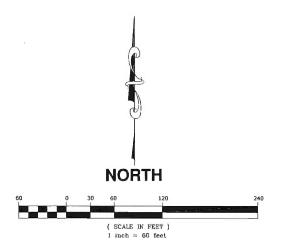
CITY OF HAM LAKE





SWEDISH CHAPEL ESTATES INSET C





LEGEND

- DENOTES 1/2 INCH OPEN IRON PIPE MONUMENT FOUND, UNLESS OTHERWISE SHOWN
- O DENOTES 1/2 INCH BY 14 INCH IRON PIPE SET, MARKED RLS NO. 41578

ste ste

DENOTES WETLAND EDGE AS DELINEATED BY KJOLHAUG ENVIRONMENTAL SERVICE COMPANY IN AUGUST 2023.

FOR THE PURPOSES OF THIS PLAT, THE NORTH LINE OF THE NORTHEAST QUARTER OF SECTION 04, TOWNSHIP 32 NORTH, RANGE 23 WEST IS ASSUMED TO HAVE A BEARING OF SOUTH 89 DEGREES 16 MINUTES 38 SECONDS EAST.

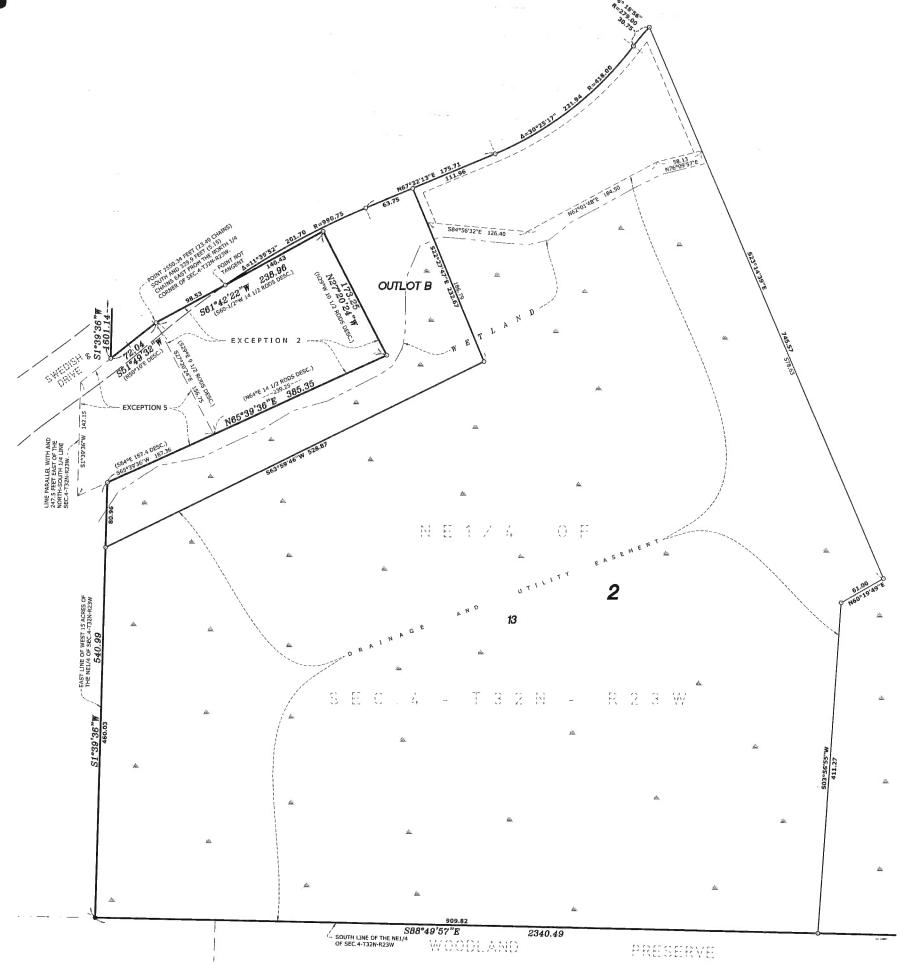
DRAINAGE AND UTILITY EASEMENTS ARE SHOWN THUS:

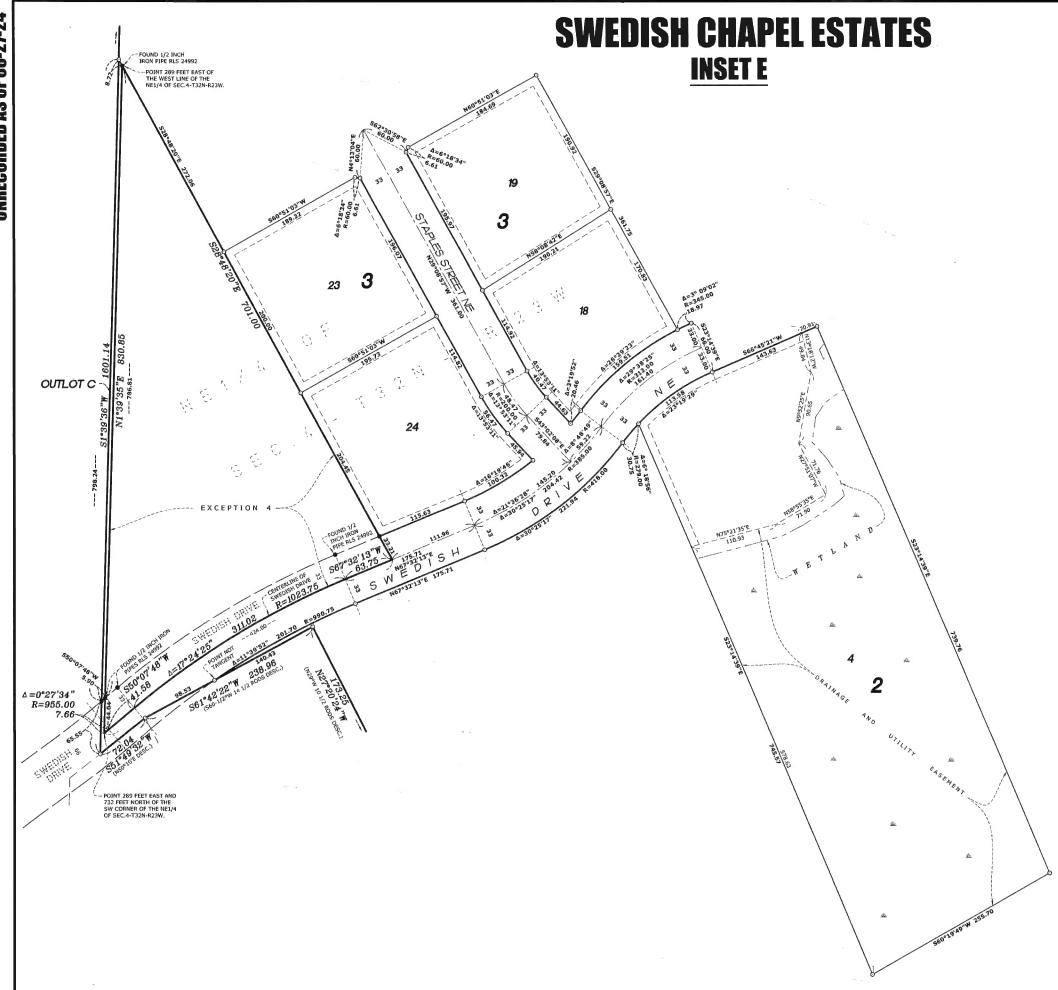


BEING 10 FEET IN WIDTH AND ADJOINING RIGHT OF WAY LINES, SIDE AND REAR LOT LINES, UNLESS OTHERWISE SHOWN ON THIS PLAT.

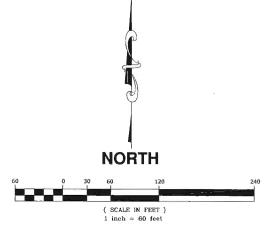
E. G. RUD & SONS, INC.

181,197 Professional Land Surveyors





CITY OF HAM LAKE COUNTY OF ANOKA SEC. 4, T32N, R23W



LEGEND

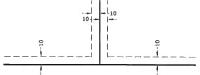
- DENOTES 1/2 INCH OPEN IRON PIPE MONUMENT FOUND, UNLESS OTHERWISE SHOWN
- O DENOTES 1/2 INCH BY 14 INCH IRON PIPE SET, MARKED RLS NO. 41578

also also

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DRAINAGE AND UTILITY EASEMENTS ARE SHOWN THUS:



BEING 10 FEET IN WIDTH AND ADJOINING RIGHT OF WAY LINES, SIDE AND REAR LOT LINES, UNLESS OTHERWISE SHOWN ON THIS PLAT.



TITLE SHEET

~of~ SWEDISH CHAPEL ESTATES ~for~ MN DEVELOPMENTS, LLC. 17404 WARD LAKE DRIVE NW ANDOVER, MN 55304 (612) 799-1471

VICINITY MAP

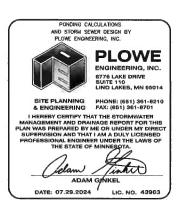
PART OF SEC. 4, TWP. 32, RNG. 23

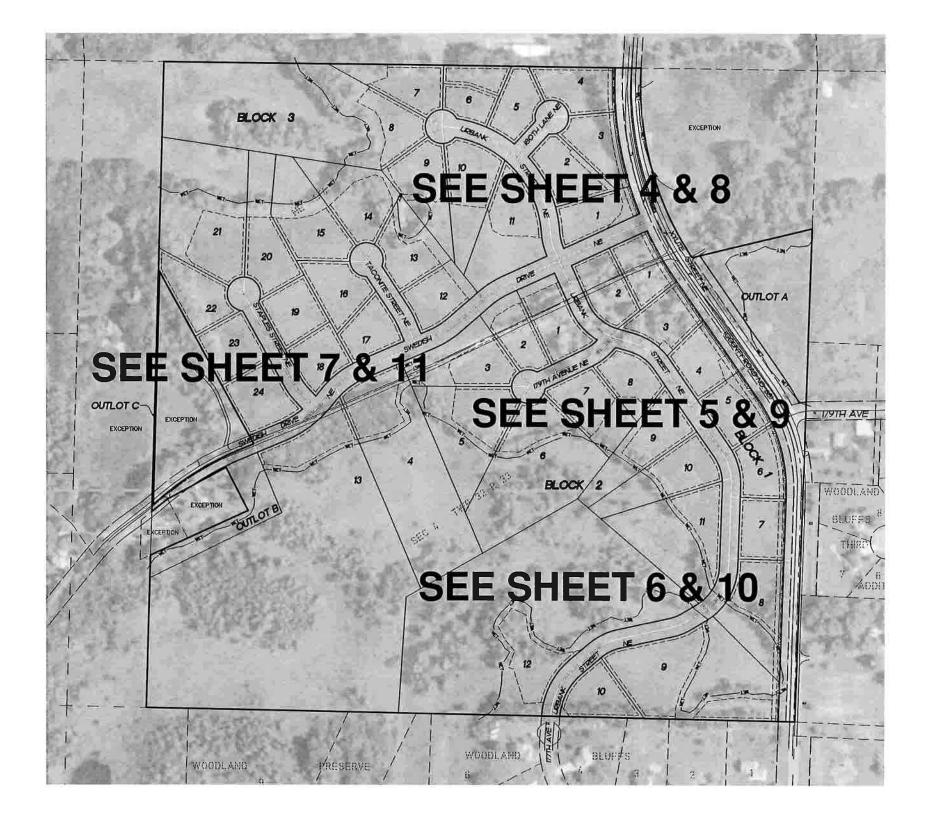


ANOKA COUNTY, MINNESOTA

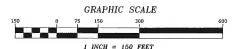
SHEET INDEX

TITLE SHEET T1 PRELIMINARY PLAT 2-3 **GRADING PLAN** 4-7 LIVABILITY PLAN 8-11 LIVABILITY CHART 12-14 **REMOVALS PLAN** STREET AND UTILITY PLANS C1.1 - C1.8 C2.1 - C2.2 STORMWATER POLLUTION PREVENTION PLAN C3.1 - C3.3 **DETAILS** C4.1 - C4.3 **TURN LANE PLAN**









I hereby certify that this survey, plan or report was prepared by me or under my direct supervision and that I am a duly Registered Land Surveyor under the laws of the State of Minnesota.

Date: 07/29/2024 License No. 41578

DRA	WN BY: MMD	JOB NO: 230743 D	ATE: 03/20/24		
CHEC	K BY: JER	FIELD CREW: OT/CT			
1	04/08/24	VICINITY MAP	MMC		
2	04/17/24	CITY COMMENTS	MMC		
3	05/22/24	CITY COMMENTS	MMD		
4	06/25/24	TRAIL EASEMENT / XYLITE LOTS			
5	07/29/24	GEO. REPORT / FLODE	RS MMD		
NO.	DATE	DESCRIPTION	BY		

NORTH

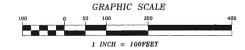
~of~ SWEDISH CHAPEL ESTATES ~for~ MN DEVELOPMENTS, LLC. 17404 WARD LAKE DRIVE NW ANDOVER, MN 55304 (612) 799-1471 NORTH Owner PRIDAY LONGLE C - EAST BETHEL CITY LIMITS NORTH LINE OF NORTHEAST QUARTER OF SECTION 4, TOWNSHIP 32, RANGE 23 NORTHEAST CORNER OF SECTION 4, TOWNSHIP 32, RANGE 23 TYPICAL EASEMENTS (NOT TO SCALE) BLOCK 3 BEING 10 FEET IN WIDTH ADJOINING RIGHT OF WAY LINES AND 10 FEET IN WIDTH ADJOINING LOT LINES UNLESS OTHERWISE SHOWN. -DRAINAGE AND UTILITY EASEMENT-EXCEPTION 273,622 S.F. **NOTES** 69,139 S.F. (1.59 ACRES) Bearings shown are on Anoka County datum - Parcel ID Number: 04-32-23-14-0001 Site Address: 2506 Swedish Drive NE 65,131 S.F. (1.50 ACRES) OWNER: JOAN A DOSEDEL Legal description per title commitment prepared by Chicago Title Insurance dated 9/7/2023 Commitment No. 230943680. 12.22 ACRES 20 65,387 S.F. 13 BLOCK **DEVELOPMENT DATA** 54,927-6.F. (1.26 ACRES) TOTAL SITE AREA ≈ 111.42± ACRES OUTLOT AREA ≈5.01± ACRES 47 PROPOSED SINGLE FAMILY LOTS OUTLOT A AVERAGE LOT SIZE = 2.26 ACRES MINIMUM STREET FRONTAGE = 200 FEET MINIMUM LOT SIZE = 1.00 ACRES (INCLUDING HALF OF STREET ROW) PROPOSED ZONING = R-1 BUILDING SETBACKS FRONT = 30 FEET SIDE = 10 FEET REAR = 50 FEET COUNTY ROAD = 50 FEET OUTLOT C 3,696 S.F. (0.08 ACRES) LEGEND IN PARTICI DENOTES ANOKA COUNTY CAST IRON MONUMENT DENOTES IRON MONUMENT FOUND MATCHLINE: SEE SHEET DENOTES EXISTING CONTOURS (2' INTERVAL) **PROPERTY DESCRIPTION** DENOTES DRAINAGE AND LITELITY FASEMENT DENOTES BUILDING SETBACK LINE DENOTES RESTRICTED ACCESS The Northeast Quarter of Section 4, Township 32, Range 23, excepting the following described tracts of land: DENOTES RESTRICTED ACCESS DENOTES WETLAND LINE DELINEATED BY KJOLHAUG ENVIRONMENTAL SERVICES INC. DENOTES WETLAND BUFFER LINE 1. The West 15 acres of the said Northeast Quarter of Section 4, Township 32, Range 23, heretofore sold and deeded to the Swedish Lutheran Society. DENOTES APPROXIMATE FEMA FLOOD ZONE A LINE FROM FEMA FLOOD INSURANCE RATE MAP NO. 27003C0215E PANEL NO. 0215 SUFFIX E, EFFECTIVE DATE DECEMBER 16TH, 2015. A plot of ground, commencing at a point 23.49 chains South and 5.15 chains East (Variation 8 degrees 51 minutes in 1887) of Quarter corner on North side of Section 4, Township 32, Range 23; thence South 29 degrees East (Variation 8 degrees 51 minutes in 1887) 9 1/2 rods, to a tamarac stake; thence North 64 degrees East, 14 1/2 rods; thence North 29 degrees West, 10 1/2 rods; thence South 60 1/2 degrees West, 14 1/2 rods to point of commencement, containing 1 acres, more or less, being a part of the Southwest Quarter of Northeast Quarter of Section 4, Township 32, Range 23. DENOTES EXISTING AREA 1' ABOVE MOTTLING 3. Commencing at the Northeast corner of Section 4, Township 32, Range 23 and running thence West on and along town line between Towns of Bethel and

PIN No. 17-119-22-14-00 Owner: City of X DENOTES ADJACENT PARCEL OWNER INFORMATION (PER ANOKA COUNTY TAX INFORMATION)

E.G. RUD & SONS, INC.

Professional Land Surveyors
6776 Lake Drive NE, Suite 110
Lino Lakes, MN 55014

Tel. (651) 361-8200 Fax (651) 361-8701



I hereby certify that this survey, plan or report was prepared by me or under my direct supervision and that I am a duly Registered Land Surveyor under the laws of the State of Minnesota.

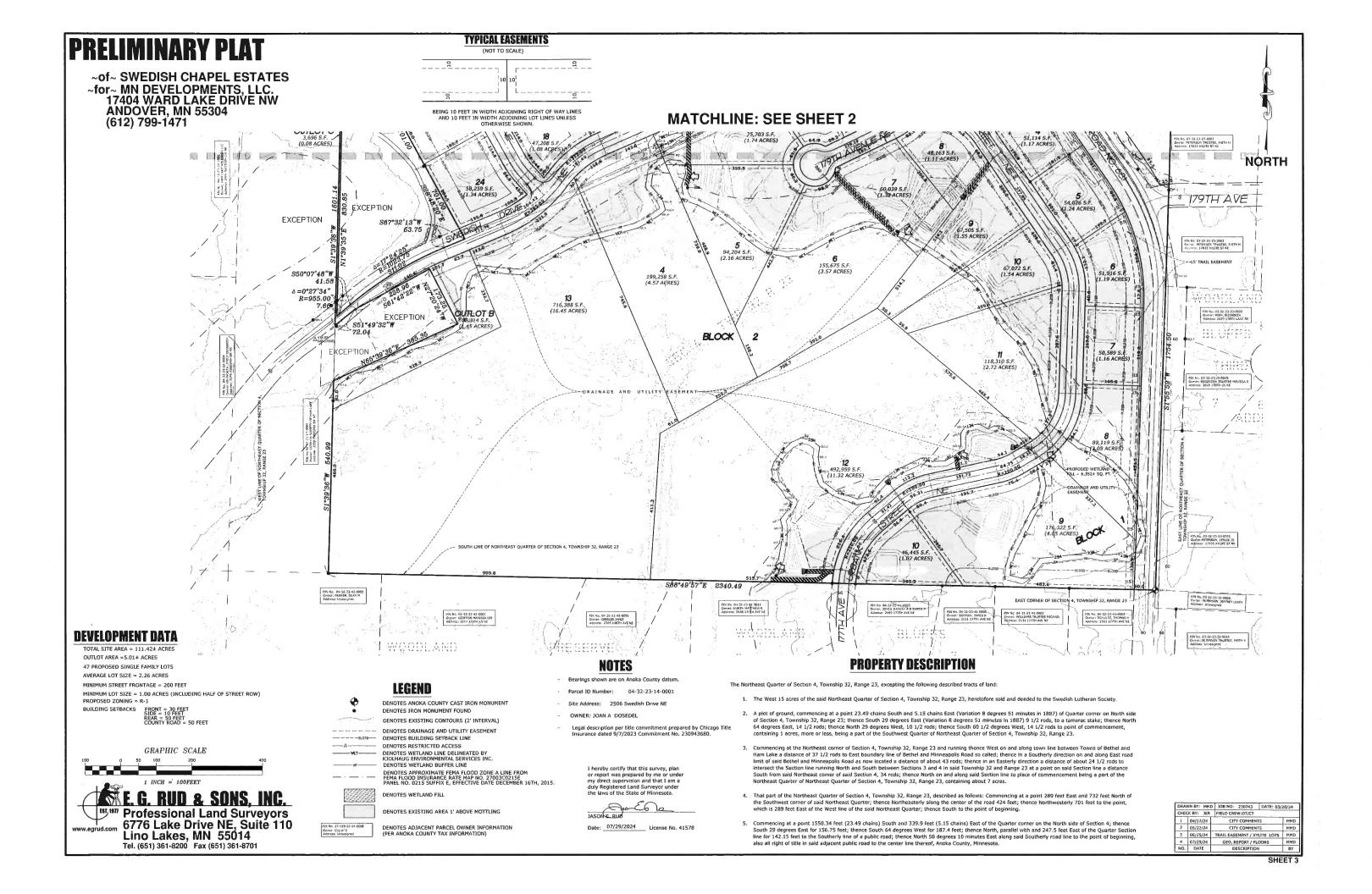
JASON E. RUD

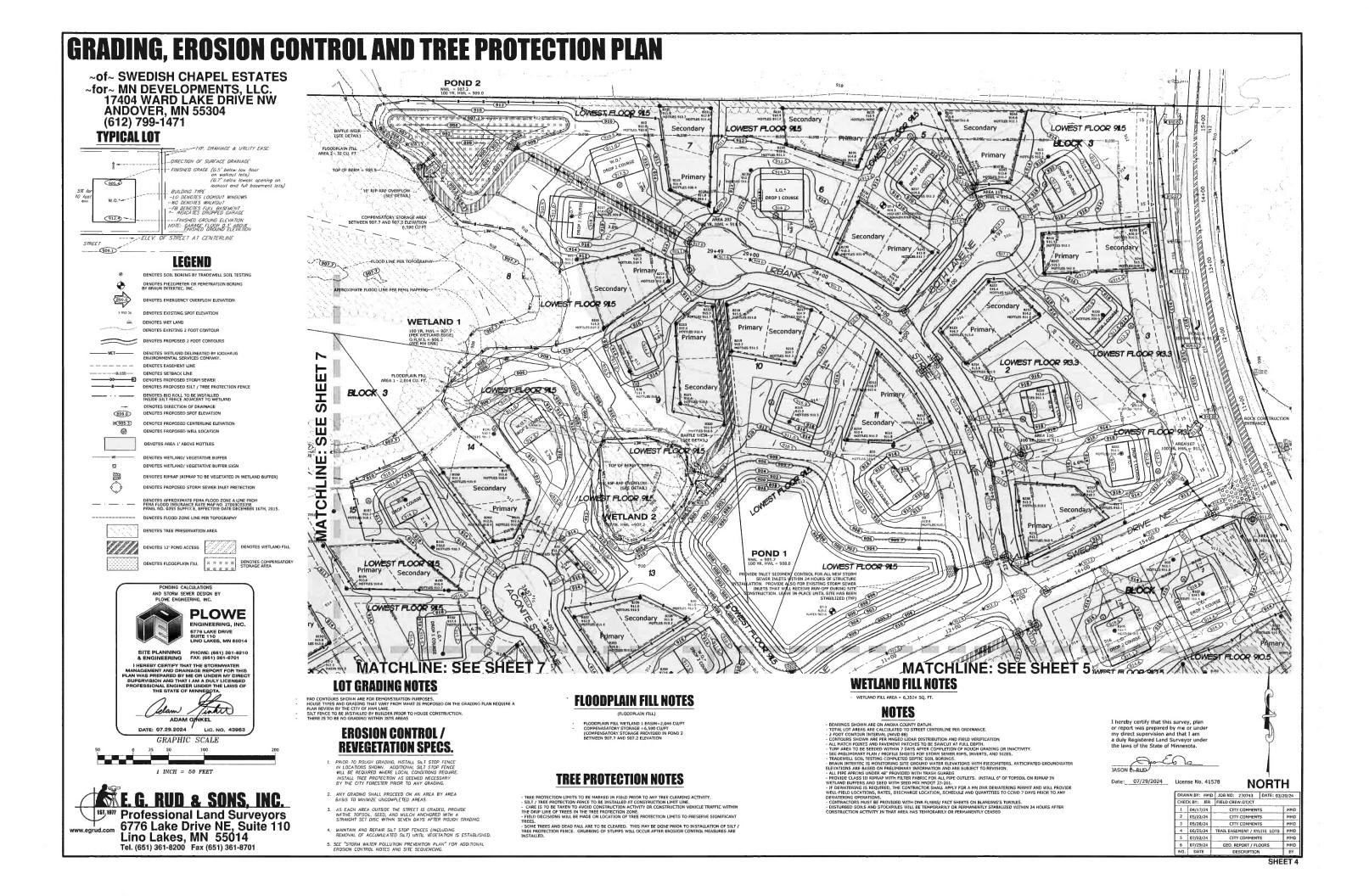
Date: 07/29/2024 License No. 41578

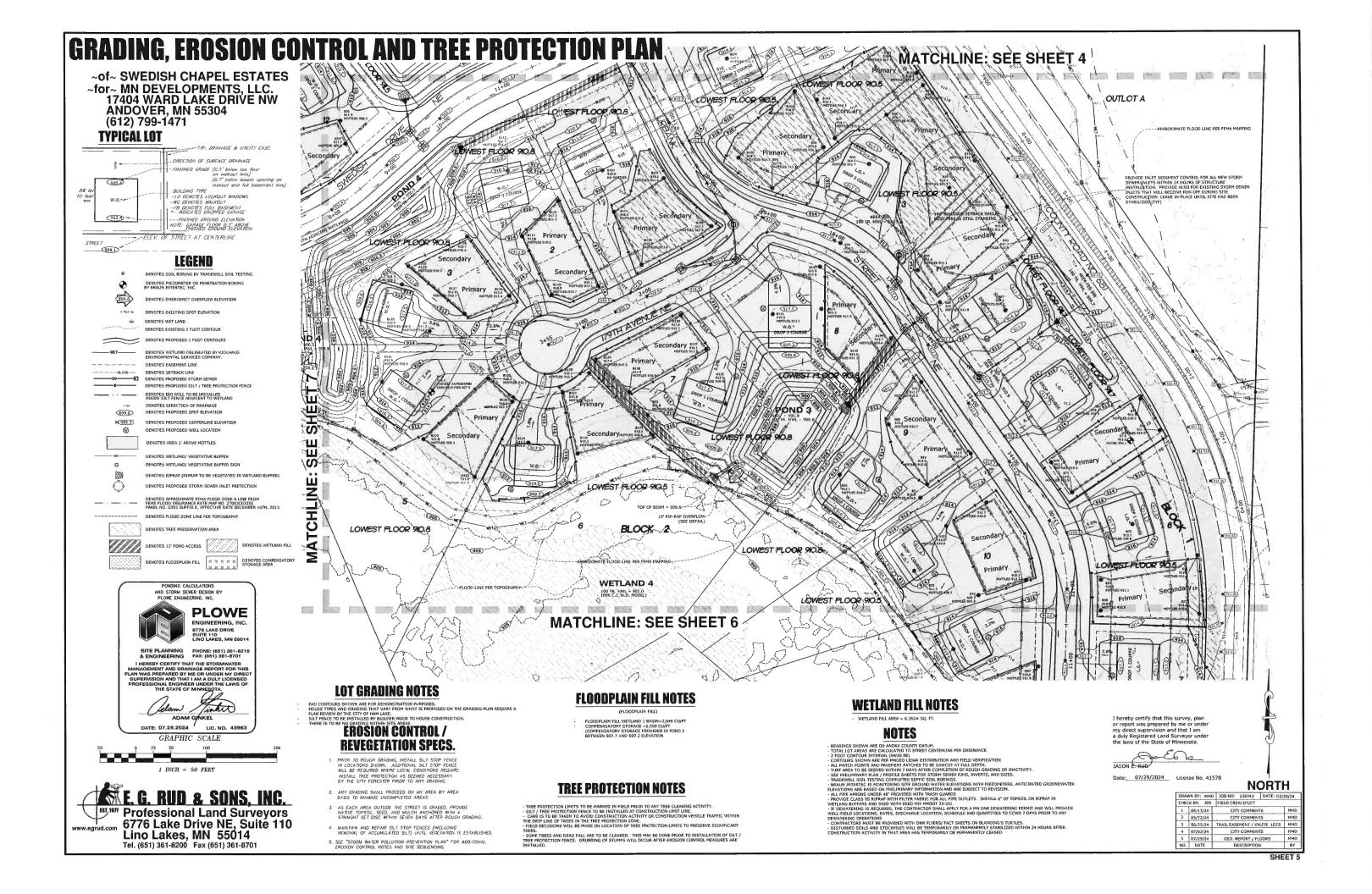
No. 41578

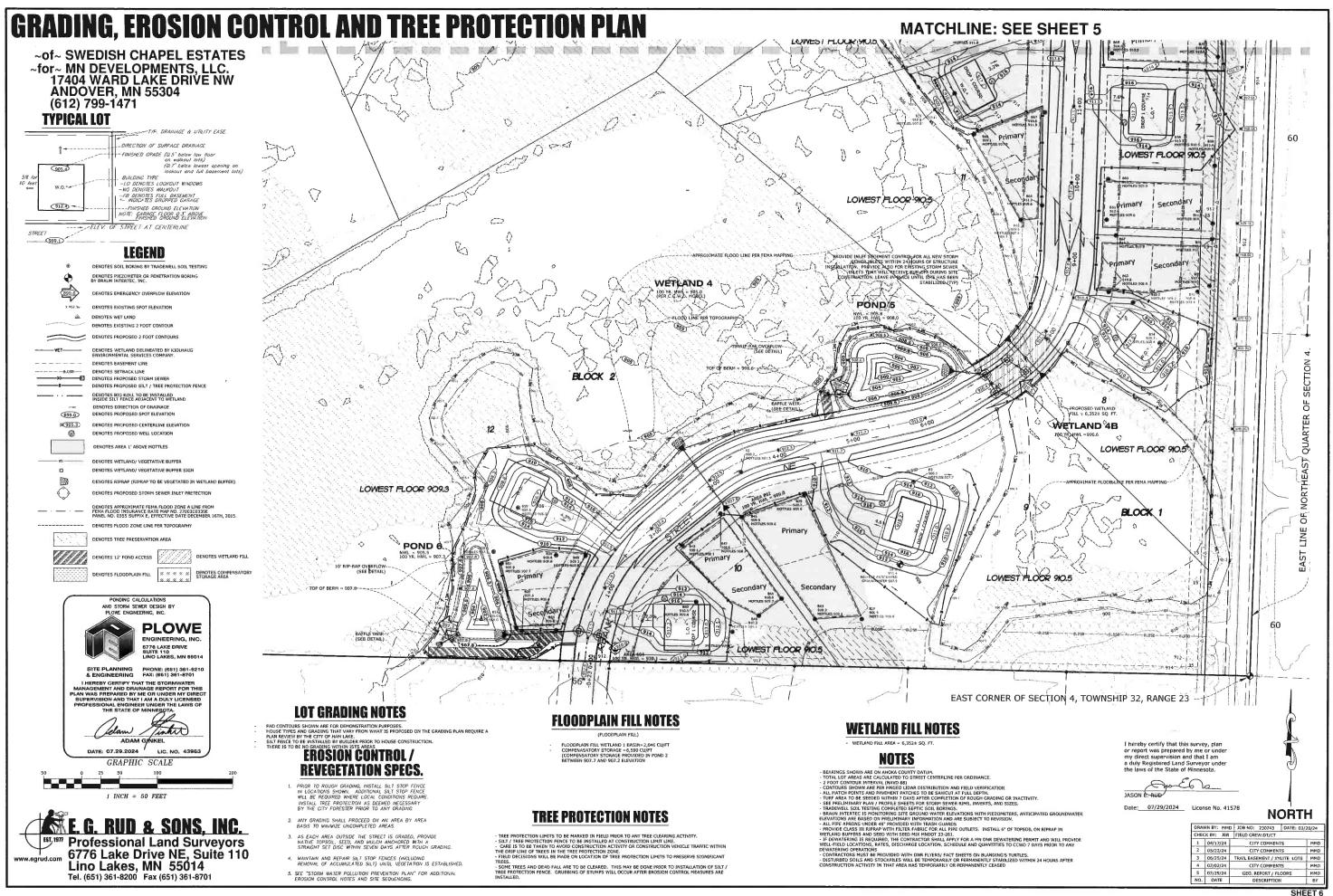
- 8. Commencing at the Northeast corner of Section 4, Township 32, Range 23 and running thence West on and along town line between Towns of Bethel and Harn Lake a distance of 37 1/2 rods to East boundary line of Bethel and Minneapolis Road so called; thence in a Southerly direction on and along East road limit of said Bethel and Minneapolis Road so now located a distance of about 43 1/2 rods; thence in an Easterly direction a distance of about 42 1/2 rods to Intersect the Section line running North and South between Sections 3 and 4 in said Township 32 and Range 23 at a point on said Section line a distance South from said Northeast Courner of said Section 4, 34 rods; thence North on and along said Section line to place of commencement being a part of the Northeast Quarter of Northeast Quarter of Section 4, Township 32, Range 23, containing about 7 acres.
- 4. That part of the Northeast Quarter of Section 4, Township 32, Range 23, described as follows: Commencing at a point 289 feet East and 732 feet North of the Southwest corner of said Northeast Quarter; thence Northeasterly along the center of the road 424 feet; thence Northwesterly 701 feet to the point, which is 289 feet East of the West line of the said Northeast Quarter; thence South to the point of beginning.
- 5. Commencing at a point 1550.34 feet (23.49 chains) South and 339.9 feet (5.15 chains) East of the Quarter corner on the North side of Section 4; thence South 29 degrees East for 156.75 feet; thence South 64 degrees West for 187.4 feet; thence North, parallel with and 247.5 feet East of the Quarter Section line for 142.15 feet to the Southerly line of a public road; thence North 50 degrees 10 minutes East along said Southerly road line to the point of beginning, also all right of title in said adjacent public road to the center line thereof, Anoka County, Minnesota.

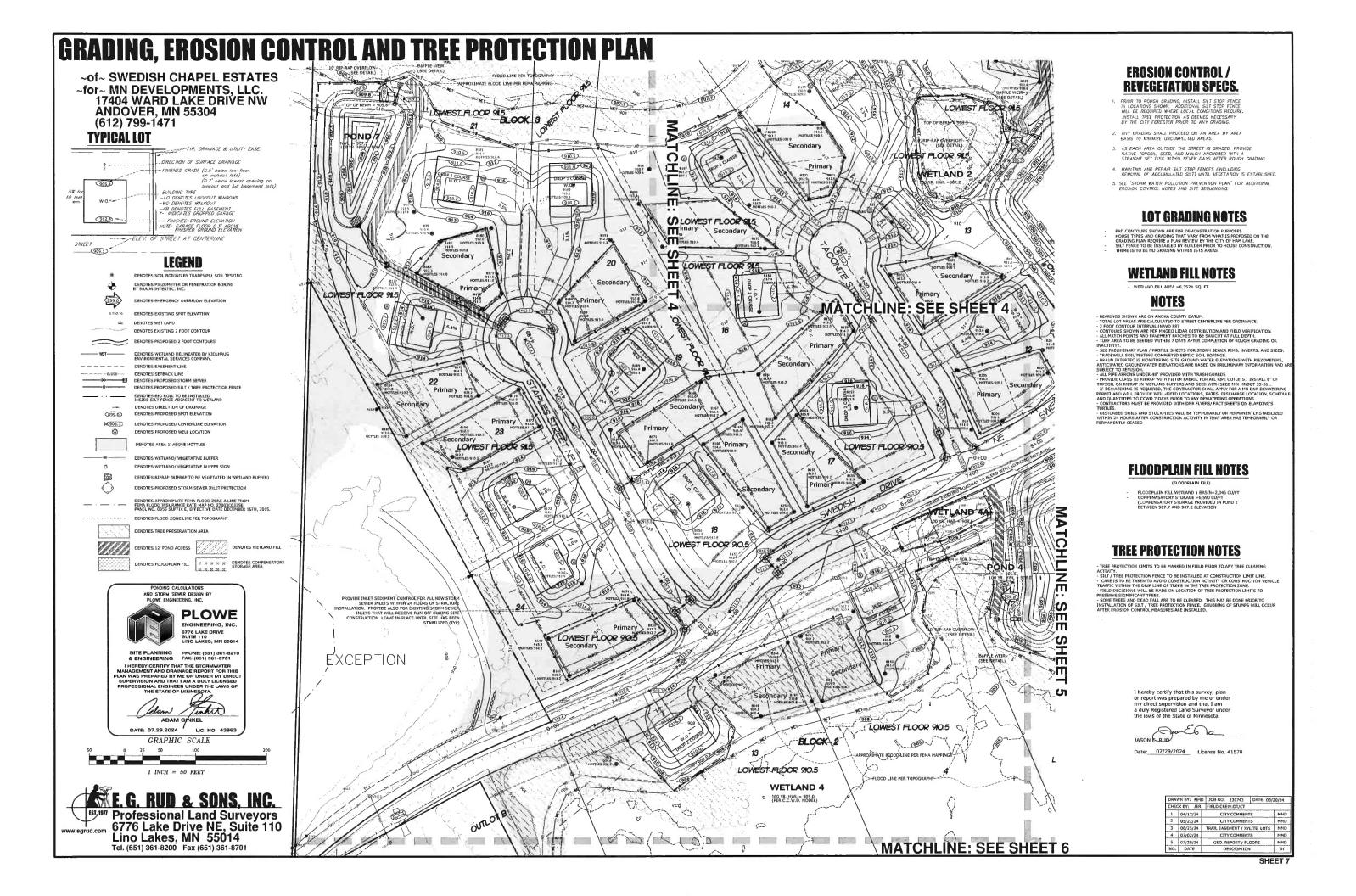
DRA	WN 8Y: MMD	JOB NO: 230743 DATE: 03/	20/24
CHE	CK BY: JER	FIELD CREW:DT/CT	
1	04/17/24	CITY COMMENTS	MMD
2	05/22/24	CITY COMMENTS	MMD
3	06/25/24	TRAIL EASEMENT / XYLITE LOTS	MMD
4	07/29/24	GEO. REPORT / FLOORS	MMD
110	DATE	Ordenierros.	01/







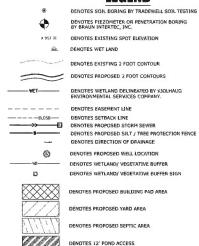


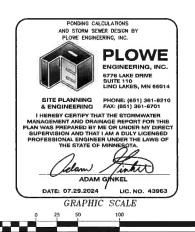


LIVABILITY PLAN

~of~ SWEDISH CHAPEL ESTATES ~for~ MN DEVELOPMENTS, LLC. 17404 WARD LAKE DRIVE NW ANDOVER, MN 55304 (612) 799-1471

LEGEND

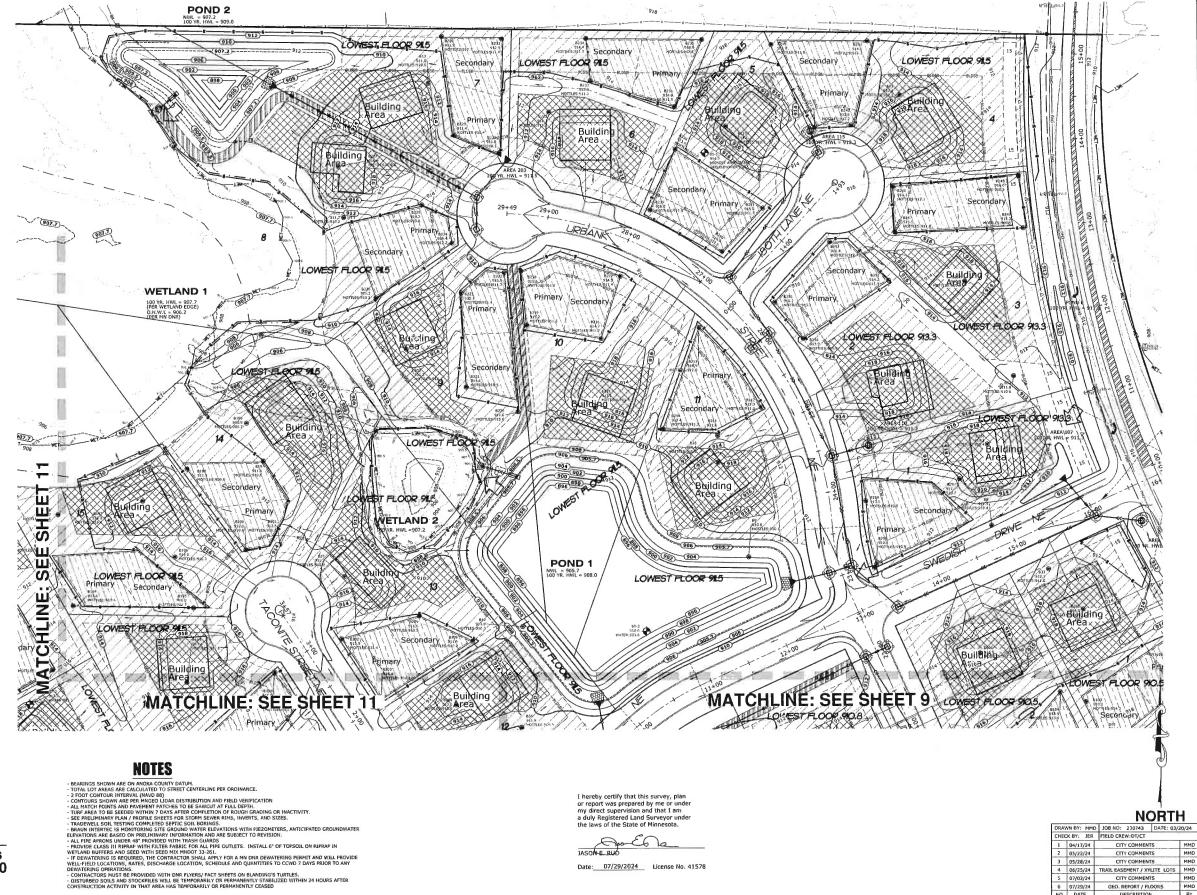




E.G. RUD & SONS, INC.

1 INCH = 50 FEET

Professional Land Surveyors 6776 Lake Drive NE, Suite 110 Lino Lakes, MN 55014 Tel. (651) 361-8200 Fax (651) 361-8701



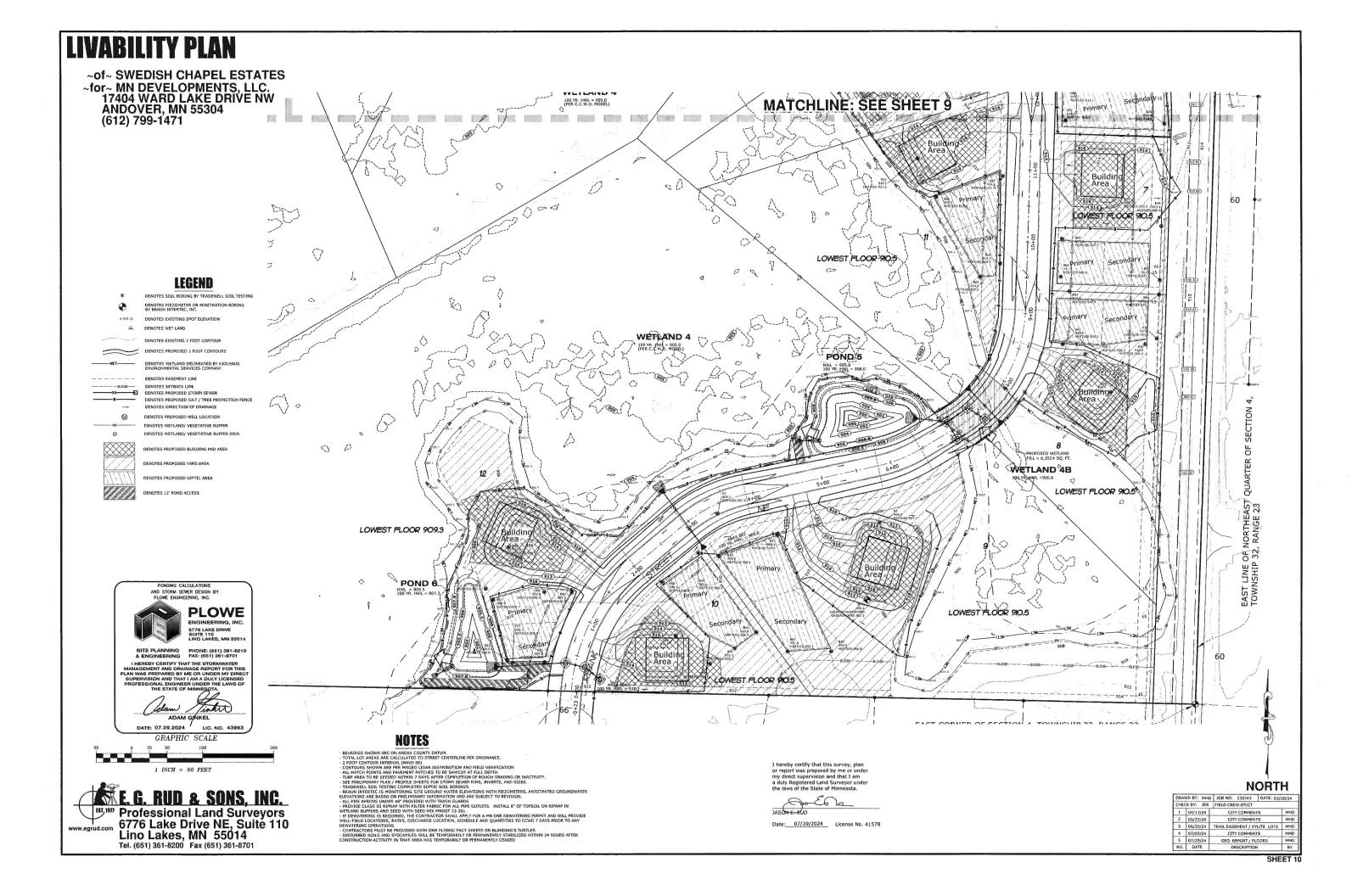
LIVABILITY PLAN ~of~ SWEDISH CHAPEL ESTATES ~for~ MN DEVELOPMENTS, LLC. 17404 WARD LAKE DRIVE NW ANDOVER, MN 55304 MATCHLINE: SEE SHEET (612) 799-1471 OUTLOT A LOWEST FLOOR 905. LOWEST FLOOP 908 DWEST FLOOR 908 LEGEND DENOTES PROPOSED 2 FOOT CONTOURS DENOTES EASEMENT LINE DENOTES PROPOSED STORM SEWER DENOTES PROPOSED SILT / TREE PROTECTION FENCE DENOTES PROPOSED WELL LOCATION DENOTES WETLAND/ VEGETATIVE BUFFER POND 3 SEE DENOTES PROPOSED SEPTIC AREA OWEST FLOOR 90.8 DENOTES 12' POND ACCESS Building MATCHLINE: LOWEST FLOOR 910.5 LOWEST FLOOR 910.8 BLOCK 2 LOWEST FLOOR 910.8 **PLOWE** WETLAND 4 100 YR. HWL = 905.0 (PER C.C.W.D. MODEL) LOWEST FLOOR 90.5 SITE PLANNING PHONE: (651) 361-6210 & ENGINEERING FAX: (651) 361-8701 MATCHLINE: SEE SHEET 10 DATE: 07.29.2024 / LIC. NO. 43963 GRAPHIC SCALE **NOTES** - REARINGS SHOWN ARE DY ANDRA COUNTY DATUM. - TOTAL LOT AREAS ARE CALCULATED TO STREET CENTERLINE PER ORDINANCE. - 2 FOOT CONTOUR INTERVAL (ANDRA) 88) - CONTOURS SHOWN ARE PER MAGED LUDAR DISTRIBUTION AND FIELD VERRIFICATION - ALL MACHE HOURTS AND PAVEMENT PATCHES TO BE SANGUL AT FULL DEFTH. - TURE AREA TO BE SEEDED WITHIN 7 DAYS AFTER COMPLETION OF ROUGH GRADING OR INACTIVITY. - SEE PRELIMINARY PLAN / PROFILE SHEETS FOR STORM SEWER RIMS, INVERTS, AND SIZES. - TRADEWELL SOIL TESTING COMPLETED SEPTIC SOIL BORINGS. - BRAUN INTERTS LE MONTROBLEN SITE GROUND WATER ELEVATIONS WITH PIEZOMETERS, ANTICIPATED GROUNDWATE ELEVATIONS ARE BASED ON FRELIMINARY INFORMATION AND ARE SUBJECT TO REVISION. - PROVIDE CLASS IN BEPARA WITH LITER FABRIC FOR ALL PIPE OUTLETS. INSTALL 6* OF TORSOIL ON RIPRAP IN WETLAND BUFFERS AND SEED WITH SEED MIX MNOOT 33-261. - TO EVANTERING IS REQUIRED, THE CONTRACTOR SHALL APPLY FOR A MID DAY DEWATERING PERHIT AND WILL PROVID WELL-FIELD LOCATIONS, RATES, DISCHARGE LOCATION, SCHEDULE AND QUANTITIES TO CCWD 7 DAYS PRIOR TO ANY DEWATERING PERMIT AND WILL PROVID WELL-FIELD LOCATIONS, RATES, DISCHARGE LOCATION, SCHEDULE AND QUANTITIES TO CCWD 7 DAYS PRIOR TO ANY DEWATERING PERMIT AND WILL PROVID I hereby certify that this survey, plan or report was prepared by me or under my direct supervision and that I am a duly Registered Land Surveyor under the laws of the State of Minnesota. 1 INCH = 50 FEET NORTH E.G. RUD & SONS, INC. DRAWN BY: MMD JOB NO: 230743 DATE: 03/20/24 CHECK BY: JER FIELD CREW: DT/CT **Professional Land Surveyors**

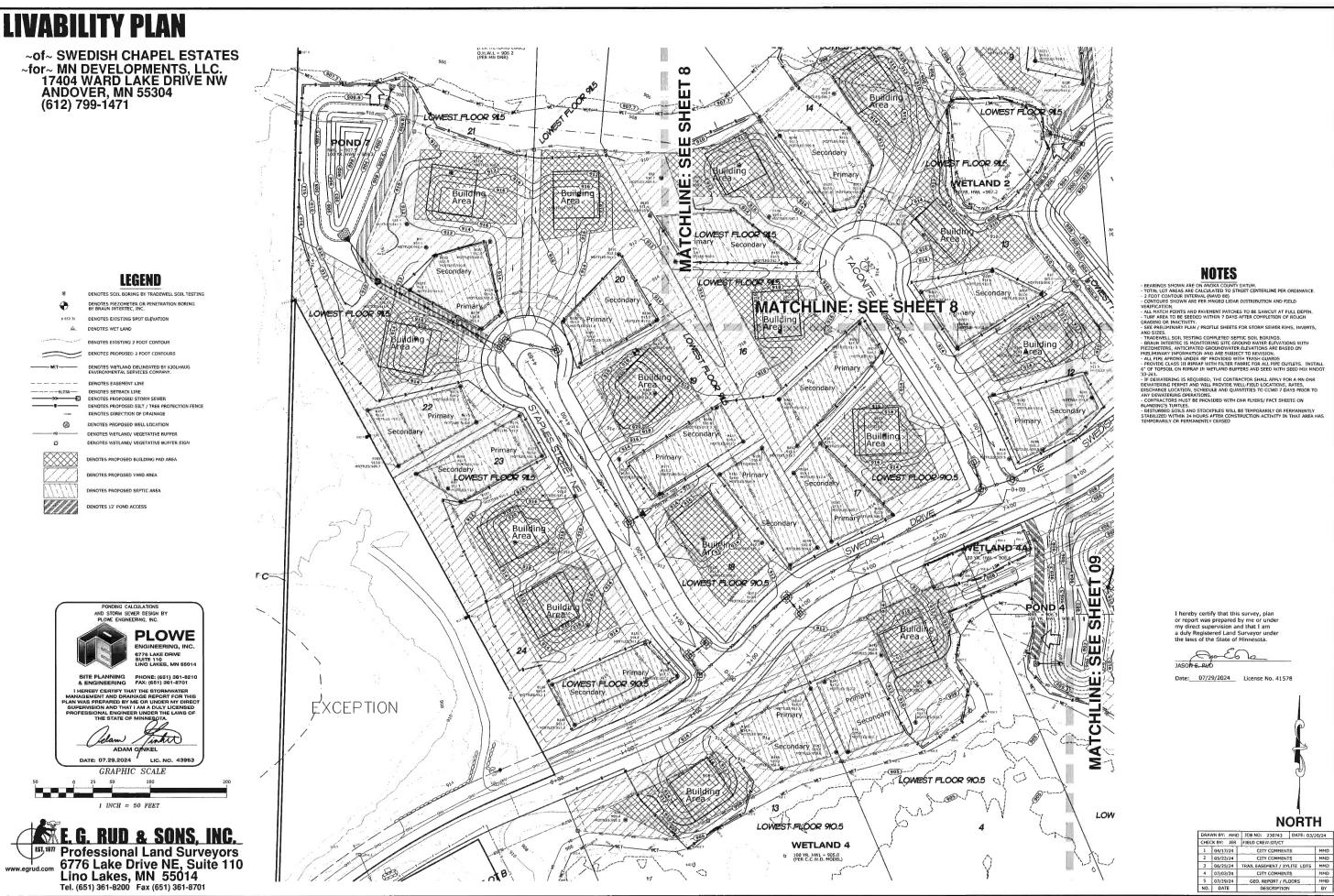
Date: 07/29/2024 License No. 41578

6776 Lake Drive NE, Suite 110

Lino Lakes, MN 55014 Tel. (651) 361-8200 Fax (651) 361-8701 VICTURED CONTROL OF THE CONTROL OF T

3 06/25/24 TRAIL EASEMENT / XYLITE LOTS MMD





LIVABILITY CHART

~of~ SWEDISH CHAPEL ESTATES ~for~ MN DEVELOPMENTS, LLC. 17404 WARD LAKE DRIVE NW ANDOVER, MN 55304 (612) 799-1471

Livability Standards

All residential lots shall contain at least 29,500 square feet of land which lies above the
100 year flood contour. Of this 29,500 square feet, the following additional requirements
must be present.

A .15TS Area. Each lot must contain at least 7,500 square feet of contiguous area which is reserved for both the LSTS originally constructed and a future LSTS. The LSTS Area hered not be contiguous to the Etigliab building Area on the Yard Area, but the entire. LSTS Area must exist at an elevation at least one foot above unsuitable Soils, and must contain Undisturbed Soils or soils which meet the requirements of Rule 7080 of the Minnesota Pollution Control Agency for LSTS construction standards. The LSTS Area may be irregular in shape, provided they do not encreach into areas reserved by easement or otherwise for roadway, drainage or utility purposes, and provided that all of the area can be reasonably used for ISTS construction without the need for variances.

B. Elighte Building Area Each of the stall contain a least 10,000 square feet of continuous land which lies at an elevation at least four feet above Unsuitable Solls. The Elighte Building Area may not be regular in shape, and should be generably rectangular or ovoid, with no panhandles, narrow necks or peninsulas. Eligible Building Areas may not encroach lint on ay reass reserved by osserent or Eligible Building Areas may not encroach lint on the property of the second of the Eligible Building Area.

C. Yard Area Each fot shall contain at least 12,000 contiguous square feet which:

r) Lies above the 100 year flood contour, and ii) Lies at least one foot above soils unsuitable for the intended usage of the Yard area, and

is) Lies at least one took above soils unsuitable for the intended usage of
is) and is a least one took above soils unsuitable for the intended usage of
is) is conquising to the Eigiple Building Area for a dislarace of at least
fifty percent of the fineal perimeter of the Eligiple Building Area.
Year Areas may encroach into the declaracte essement area which less at a distance of
ten feet from the perimeter of the lot, and may encroach into areas reserved by
essement or to therevise for other public Unity purposes, but may not encroach into any
other area reserved by dedication or otherwise for road or drainage purposes, any may
wettands. Yard Areas may be Irregular in shape except within thirty feet of the
locations where the Yard Areas fine late a logical extension or expansion of the generality
rectangular or ovoid shape of the Eligibte Building Area, at which
locations the Yard Areas shall be a logical extension or expansion of the generality
rectangular or ovoid shape of the Eligibte Building Area. Fill may be used to create
Yeard Area.

D. Building Pad Areas. The entire Building Pad must he within the Eligible Building Area, and shall meet the separation requirements for the Eligible Building Area.

E. Low Floor Elevations

Low Floor Elevations

Ji For wilkout designs, the low floor elevation shell be at least two feet above the 100 year flood contour, but, notwithstanding the 100 year flood contour, but, notwithstanding the 100 year flood contour, not less than one floot above unsuitable soils, as determined by the City's engineer.

I) For other designs, the low floor elevation shall be at least two feet above the 100 year flood contour, but, notwithstanding the 100 year flood contour, not less than one ofto above unsuitable soils, as determined by the City's engineer.

PONDING CALCULATIONS AND STORM SEWER DESIGN BY **PLOWE** SITE PLANNING PHONE: (651) 361-8210 & ENGINEERING FAX: (651) 361-8701 A ENGINEERING FAX: (681) 361-8701
I HEREBY CERTIFY THAT THE STORMWATER
MANAGEMENT AND DRAINAGE REPORT FOR THIS
PLAN WAS PREPARED BY ME OF UNDER MY DIRECT
SUPERVISION AND THAT I AM A DULY LICENSED
PROFESSIONAL ENGINEER UNDER THE LAWS OF
THE STATE OF MINNESTIA.

ADAM QINKEL DATE: 07.29.2024 LIC. NO. 43963

Lot	Block	Total Lot Area		Septic Area (sq. ft)				Proposed Law			Groundwarer	Determining	Boring #	Boring	Mottles		Custom
		(sq ft.)	(sq. ft.)	(sq. fl.)	(sq. fl.)	4' Above Unsuitable (sq. ft)	Elevation	Floor Elev	Opening	Elevation	Elevation	Factor	- 20	Elevation	Elevation	Туре	Graded
1	1	48.312	14,389	7,765	10,058	10,058	919.1	912.1	915.3	910 5	907.5	Anticipated	33	912.1	911.0	L.O.*	NO
_												Groundwater	97	914 1	911.6	DROP	
													100	918.1 916.9	913.6 911.7	1 COURSE	
													102	914.1	911.4		
			_	-						-		-	103	919.1	914.3		
		64.007	00.000	7.000	10,343	10,343	918.9	912.6	915.8	910.5	907.5	Anticipated	95	917.8	913 1	L.O.*	NO
2	1	54,927	20,939	7,936	10,343	10,343	810.8	912.0	310.0	910.5	807.3	Groundwater	96	915.0	911.3	DROP	110
										-		Croundinates	104	918.9	913.6	2 COURSE	-
	-								1		-		105	919.7	914.7	LOGGINGE	
	-		-			-		1					106	914.5	911.5		
3	1	50,676	15,506	8.724	10,064	10,064	917.8	911.5	914.7	910.5	907.5	Anticipated	24	914.5	912.3	L.O.*	NO
	<u> </u>	30,070	10,000	0.724	10,001	10,00						Groundwater	92	915.2	910.5	DROP	
	-						1						93	914.1	911.9	2 COURSE	
													94	914.4	911.7		
													98	916.7	912.7		
							1						99	918.3	913.3		
4	1	51,114	13,549	8,045	10,017	10.017	918.0	911.7	914.9	911.7	907.5	PER	87	914.6	909.9	SIDE L.O.*	NÖ
												FES 308	88	915.7	911.9	DROP	
												HWL	89	915.6	911 1	2 COURSE	
			1										90	917.3	912 8		
										-			91	915 8	911.1	101	1/0
5	1	54.026	14,655	7,681	10,171	10,171	918.0	911.7	914.9	911.7	907.5	PER FES 308	ST 5	911.6 911.7	904.1 (W) 910.6	DROP	NO
							-	ļ				HWL	73			2 COURSE	
	-							 				DAAL	74	911.7	910.0	E SOUNSE	
	-	-				-							75	912.9	910.9		
				-		-	1	-	+	1			76	912.1	910.6		
6	1	51,916	15,109	7,970	10,042	10.042	918.0	911.0	914 2	910.5	907.5	Anticipated	68	914.6	910.9	LO.*	NO
	+ -	01.010	10,100	1,010	10,012	10.012	2.0.0	1	1 -172	- 10.0	1	Groundwater		915.1	912 1	DROP	
	-							_	1				70	914.4	910.9	1 COURSE	
-	-		1		-		1	1	1				71	912.7	911.2		
							1			1	1		72	913.1	909.8		
7	1	50,589	14,660	7,856	10.227	10,227	918.0	911.0	914.2	910.5	907.5	Anticipated	57	911.5	910.1	L.O.*	NO
												Groundwater	58	913.4	909.9	DROP	
								1					59	913.5	910.5	1 COURSE	
	l								1				60	913.3	909.9		
		l											61	912.6	909.6		
- 8	1	89,119	14,554	8,097	10,044	7,087	917.8	911.5	911.5	910.5	907.5	Anticipated	4	910.3	909.2	W.O.*	NO
					Į.							Groundwater		910.4	909 4	DROP	
							1			1			54	909.7	908.4	2 COURSE	
								1					55	910.6	909.6		
									-	-			56	911.2	910.1		
	-								-	1			62	912.2	909.9		
	-	470.000	17.007	44.057	40.000	7.000	019.6	011 6	044.5	910.5	907.5	Anticipated	ST6	910.8	905.1 (W)	W.O.*	NO
9	1	176,322	47,687	11,957	10,000	7,269	918.5	911.5	911.5	910.5	907.5	Groundwater		908.2	907.5	DROP	NO
ļ	-		-				-		+	-		Giodildwater	3	908.5	907.7	1 COURSE	
	-		-			+	1			+			28	909.9	908.8		1
			-		1		†			1	-	1	29	909.7	908.6		
				 								† · · · ·	43	910.3	909.1		
	1				1		1			1			46	909.9	908.6		
10	1	46,445	18,421	7,658	10,259	10,259	917.5	910.5	913.7	910.5	907.5	Anticipated	27	909 9	909.1	L.O.*	NO
											1	Groundwater	42	910.5	909.4	DROP	
													44	910.8	909.7	1 COURSE	
]				45	910.3	909.1		
													47	909.6	908.2		
								1					48	909.1	908.1		
1	2	68,153	20,553	8,663	10,608	8,963	918.5	911.5	911.5	910.8	907.5	PER	107	919.0	NONE	W.O.*	NO
										1		POND 4	108	919.1	914.4	DROP	-
									1	-		HWL	109	917.1	911.9	1 COURSE	
	-	1	-		1		-		-	+		1	110	915.0	913.0		\vdash
_	-		10.555	7700	10.000	0.050	010.0	044.0	044.0	040.0		DED	111	916.4	912.2 911.9	W O 1	NO
2	2	47,869	12,589	7,728	10.396	6,656	918.0	911.0	911.0	910.8	907.5	PER POND 4	112	917.1	911.9	DROP	NO
	-		1				+	+		-		HWL	114	913.8	910.5	1 COURSE	+
-	-				-			t	1	_	†	11176	115	916.0	912.7	. 555,100	
-	1	1	1	+	 	 		+	+	1		1	210	916.1	912.1		
3	2	75,703	12,079	7,859	10.140	6,385	917.8	910.8	910.8	910.8	907.5	PER	7	911 2	910.2	W.O *	NO
	1	10,700	12,0.0	.,,,,,,	1		1	1	1		1	POND 4	32	911.3	910.2	DROP	
	1						1			1		HWL	116	913.4	911.4	1 COURSE	
		1	1										117	912.0	910.7		
													118	910 7	908 4		
													119	912.0	910.2		
													120	910.0	908.8		1
4	2	199,258	20,477	7.907	10,459	6.911	916.8	910.5	910.5	910.5	907.5	Anticipated	21	909.9	908.7	W.O.*	NO
												Groundwater		910.0	908.3	DROP	
	1									-			141	911.0	908.7	2 COURSE	
	1		L				-	1	1				142	912.8	909.6		\vdash
	H		40		44 ***	0.100	0.00	022.5	010.0	040.0	007.5	655	143	917.2	912.2	W.O.*	NO
5	2	94,204	18,988	8,215	11,206	9,120	917.8	910.8	910.8	910.8	907.5	PER POND 4	5T-4	913.2	904.5 (W) 908.9	DROP	NO
		-	-		ļ			1	1	+		POND 4	121	910.0	908.9	1 COURSE	+
	1	-	-	1	-		-		+	+		HIVYL	123	911.0	908.2	COURSE	
	+	-	 				1	1	1	1		+	125	916.1	912.1	-	\vdash
-	 						-	1	1	1		+	126	916.1	912.3	1	\vdash
6	2	155,675	12,836	7,618	10,576	8,135	918.2	910,5	910,5	910.5	907.5	Anticipated	124	913.2	909.0	W.O.	NO
-		100,070	18,000	1,010	10,010	0,100	510.2	510,0	210,0	1	507.0	Groundwater		915.8	912.5	1	
	1	1			1				i	1			128	916.2	912.2		
	1		t				1	1	1		1	1	139	910.3	908.8		
	1		i	1			T .		1	1			140	910.3	908.3		

Lot Block Total Lot Area | Yard Area | Septic Area (sq. ft) | Building Ped Area | Proposed Building Ped | Garage Floor | Proposed Low | Proposed Low | Lowest Floor | Area | Proposed Low | Proposed Low

NOTES: * INDICATES DROPPED GARAGE ELEVATIONS BASED UPON 12 COURSE BASEMENT

ng Boring # Boring Mottles Building Custom

(W) INDICATES STATIC GROUNDWATER ELEVATION LOW OPENINGS LISTED ARE REFLECTING THE REAR YARD LOW OPENING

E.G. RUD & SONS, INC. Professional Land Surveyors www.egrud.com 6776 Lake Drive NE, Suite 110 Lino Lakes, MN 55014 Tel. (651) 361-8200 Fax (651) 361-8701

I hereby certify that this survey, plan or report was prepared by me or under my direct supervision and that I am a duly Registered Land Surveyor under the laws of the State of Minnesota.

Date: 07/29/2024 License No. 41578

DRAV	VN BY: MMD	JOB NO: 230743 DATE: 03/20/24					
CHEC	K BY: JER	FIELD CREW:DT/CT					
1	04/17/24	CITY COMMENTS	MMC				
2	05/22/24	CITY COMMENTS					
3	06/25/24	TRAIL EASEMENT / XYLITE U	OTS MMD				
4	07/29/24	GEO. REPORT / FLOORS	MME				
NO.	DATE	DESCRIPTION	BY				

LIVABILITY CHART

~of~ SWEDISH CHAPEL ESTATES ~for~ MN DEVELOPMENTS, LLC. 17404 WARD LAKE DRIVE NW ANDOVER, MN 55304 (612) 799-1471

A, ISTS Area Each lot must contain at least 7,500 square feet of contiguous area winch is reserved for both the ISTS originally constructed and a future ISTS. The ISTS Area need not be consuprated to the Children and the Childr

B. Eligible Building Area. Each lot shall contain at least 10,000 square feet of contiguous land which less it an elevation at feast four feet above Unsurable Soils. The Eligible Building Area may not be rregular in shape, and should be generally rectangular or ovoid, with no pashandles, narrow necks or peninsulas. Eligible Building Area may not encorock nite any areas received by essement or otherwise for roadway, cranage or wtilty purposes. Fill may be used to create Eligible Building Area.

C. Yard Area Each lot shall contain at least 12,000 contiguous square feet which:

C. Yard Area. Each to shall contain at least 12,000 contiguous square feet which:

1) Lies above the 100 year flood contour, and

1) Lies above the 100 year flood contour, and

1) Lies at least one foot above soils unsuitable for the intended usage of
the Yard area, and

1) the contiguous the Eligible Building Area for a distance of at least

1) the contiguous the liest permitted or the Eligible Building Area.

Yard Areas may encreach into the decitable essement area which lies at a distance of
ten feet from the permitted roll the lot, and may encreach into any encreach into any
answers of the eligible and the permitted of the lot, and may encreach into any
other area reserved by dedication or otherwise for road or dranage purposes, any
one tencreach into any areas within the 100 year flood contour or into designated
wellands. Yard Areas may be irregular in shape except within thinty feet of the
locations where the Yard Area is contiguous to the Eligibbe Building Area, at which
yard Area.

Or avoid shape of the Eligibbe Building Area. Fill may be used to create
Yard Area.

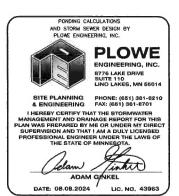
D. Building Pad Areas The entire Building Pad must lie within the Eligible Building Area, and shall meet the separation requirements for the Eligible Building Area.

E. Low Floor Elevations

Low Hoor trevisions.

I for walkout designs, the low floor elevation shalt be at least two feet above the 100 year flood contour, but, notwithstanding the 100 year flood contour, not less than one foot above unsuitable soils, as detarmined by the City's engineer.

I) for other designs, the low floor elevation shall be at least two feet above the 100 year flood contour, but, notwithstanding the 100 year flood contour, not less than one foot above unsuitable soils, as determined by the City's engineer.

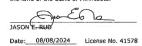


Lot	Block	Total Lot Area	Yard Area	Septic Area (sq. ft)	Building Pad Area	Proposed Building Pad	Garage Floor	T Proposed Low	Proposed Low	Lowest Floor	Groundwarer	Determining	Boring #	Boring	Molties	Building	Custom
		(sq. ft.)	(sq. ft.)	(sq fl.)	(sq ft.)	4' Above Unsuitable (sq. fl.)	Elevation	Floor Elev.	Opening	Elevation	Elevation	Factor		Elevation	Elevation		Graded
7	2	60,039	16.780	7,958	10,975	7,293	917.B	910.8	910.8	910.8	907.5	PER	23	911.8	908.1	WO.	NO
		00,000	10.1.00									POND 3	129	917.0	912.3	DROP	
-	\vdash											HWL	130	917.2	912.7	1 COURSE	
					1								136	913 5	910.0		
	<u> </u>												137	916.1	912.9		
	 		1				i						138	913.9	908.9		
8	2	46,163	13.328	7,770	10,145	8,162	917.8	910.8	910.8	910.8	907.5	PER	131	915.9	912.1	W.O.*	NO
-	-	40,100	10.020	7,710	10,140	0,102	0.1.0	0.0.0	0.0.0			POND 3	132	915.2	911.5	DROP	
		-										HWL	133	915.0	912.0	1 COURSE	4
					-							11112	134	913.7	909.4	1 COUNCE	-
	-				ļ								135	912.4	911.1		-
	-		10.000	0.101	40.004	7.007	0/7.0	0100	910.8	910.8	907.5	PER		911.8	910.5	WO*	NO
9	2	67,505	18,706	8,191	10,074	7,027	917 8	910.8	910.6	810.6	907.5		5			DROP	NO
	ļ								-			POND 3 HWL	82	912.2	910.4	1 COURSE	,——
	-		-							-		HVYL	84	912.0 913.1	910.8	I COURSE	+
					ļ								85				-
					4									912,2	910.7		-
													86	911.7	910.2		
10	2	67.072	17,431	8,224	10,386	7,437	917.5	910.5	910.5	910.5	907.5	Anticipated	77	916.1	913.3	W.O.*	NO
						1						Groundwater	78	915.3	911.8	DROP	
													79	911.3	908.5	1 COURSE	
	Ī												80	913.0	910.0		
							L						81	912.7	910.0		$\perp \Box$
11	2	118,310	13,457	7,972	10,001	6,179	917.5	910.5	910 5	910.5	907 5	Anticipated	31	910.5	907.8	W.O.*	NO
											1	Groundwater	64	911.3	908.6	DROP	
	t		1		1	1							65	909.5	907.8	1 COURSE	
			1		1								66	909.1	907.9		
		· · · · · · ·				1	i			1			67	914.6	911.9	1	\Box
12	2	492,959	19,972	7,770	12,438	6.194	917 0	909.3	909.3	909.3	908.0	PER	1	908.0	907.3	WO.	NO
12	-	-104,000	10,012	.,	,700	5,107	-11 0			1	(MOTTLES	POND 6	25	909.3	908.0	+	+
1	-		+			+		1	+	 	BORING 26)	HWL	26 °	909.4	908.0	1	+
—	-	-	-				+	1	-	1	DUTANG 20)	LIVYE	49	909.4	907.8		\vdash
——	-	-	-		1		 	+	_				50	909.3	907.8	-	+
	-		-		-	+	l		-	-	-	-	50	908.9	907.7	-	\vdash
			-													-	\vdash
								<u> </u>					52	909.0	908.0		\vdash
													53	909.8	908.5	-	
13	2	716,388	18,696	7,923	10,237	5,095	916.8	910.5	910.5	910.5	907.5	Anticipated	20	909.4	908.2	W.O.*	NO
	1											Groundwater	144	916.9	912.1	DROP	
													145	914.4	908.6	2 COURSE	4
	1								1				146	910.3	908.4		
		1								1			147	910.8	908.6	Î	
OUTLOT B	1	63,314		NA	NA.	NA NA	NA.	NA	NA	NA.	NA	NA.	i			1	\Box
1	3	57,014	12,073	7,874	10.057	10.075	920.3	913.3	913.3	913.3	907.5	PER	8	911.4	910.4	W.O.*	NO
<u> </u>	+ -	51,014	12,070	1,017	10.001	10,010		0.1070	0.0.0			AREA 107	256	911.5	910.4	DROP	1
	1	-	1		 		-	+	+		-	HWL	257	911.7	910.7	1 COURSE	-
			-				-				-	11114	258	913.5	910.8		1
1	-	-	+			-					-	-	259	912.1	910.9	1	+
-	-		12.000	7.000	40.400	49.400	920 5	2.010	913.5	913.3	907.5	PER	251	914.2	911.5	W.O.*	NO
2	3	53,106	15,893	7.836	13,123	13,123	920 5	913.5	813.8	813.3	907.5	AREA 107	252	916.4	912.7	DROP	NO
				1	1			1	1			HWL	252	916.7	913.4	1 COURSE	+
	-							1				HVVL	253			1 COURSE	4
														913.9	911.9	1	
													255	912.6	911.1		
3	3	51,626	15,201	7,888	10,161	10,161	920.3	913.3	913.3	913.3	907.5	PER	34	911.8	910.6	W.O.*	NO
						_						AREA 107	248	916.3	912.1	DROP	
												HWL	247	915.5	911.8	1 COURSE	4
													248	916.0	910.5		
													249	915.3	909.5		\perp
								.1					250	913.9	909.9		$\perp = 1$
4	3	50,725	21,282	7,806	10,713	10,713	921.5	914.5	914.5	911.5	908.5	Anticipated	13	913.1	912.1	W.O.*	NO
		1			1							Groundwater	242	913.4	912.2	DROP	
-		Ī							1				243	913.6	912.2	1 COURSE	4
													244	914.6	912 1	1	
													245	916.8	911.8		
5	3	44,998	14,913	8,202	10,155	10,115	922.0	915.0	915.0	911.5	908.5	Anticipated	ST-1	914.3	904.9 (W)	W.O.*	NO
	T -											Groundwater	237	914.6	911.3	DROP	
		1	1		1		1	1		1	1	ľ	238	913.9	912.7	1 COURSE	
		1			1		1	1		†	1		239	916.2	911.9		
	-	1	1		-			1			T .		240	916.9	912.6	1	1
	\vdash	1	-					1	-				241	915.0	911.7		\Box
6	3	45,357	15,719	7,985	11,390	11,390	918.5	911.5	914.7	911,5	908.5	Anticipated	232	912.1	911.2	LO.	NÓ
-	+ -	70,007	10,110	1,000	11,000	11,000	0.0.0	37.1.0	V.4.1	97.10	000.0	Groundwater	233	912.3	911.1	DROP	+
	-		1		+		-				t	Chambreater	234	914.4	911.7	1 COURSE	+
	+		+		 		1	+	1			1	235	918.9	NONE	1	1
	+		+	-	+		+	1	+		 		236	914.8	911.5	+	+
-	+	45 504	45.50	0.450	10.000	0.470	917.8	911.5	911.5	911.5	908.5	Anticipated	12	911.0	910.0	W.O.*	100
7	3	45,583	15,521	8,156	10,286	6,172	917.8	911.5	911.5	911.5	808.5		228			DROP	NO
	1-	1		1	J		1	-		-	-	Groundwater		911.8	910.1		+
	1		<u> </u>				1	1	+	ļ	-		229	911.4	910.4	2 COURSE	+
													230	911.9	910.7	-	\perp
													231	912.9	911.4		
8	3	273,622	14,729	7.844	10,006	5.506	918 5	911.5	911.5	911.5	908.5	Anticipated	11	911.2	910.2	W.O.	NO
			T									Groundwater	224	915.4	912.2	DROP	
													225	914.2	910.5	1 COURSE	
1	1	1	1	1			1		Ĭ				226	911.3	910.2	1	1
	1	1	1				1	1	1	i -			227	910.6	909.8		
9	3	58,704	15,308	7,777	10.005	8.795	918.5	911.5	911.5	911.5	908.5	Anticipated	38	911.2	910.1	W.O.	NO
	+ -	55,104	.5,500	4011	.5,000	,,,,,	1	1	1	1	- 30.0	Groundwater	220	911.6	910.6	DROP	1
	+	1	+		†	1	1	1		t	1		221	911.6	910.5	1 COURSE	
	+	1	1	1		-	1			t			222	915.9	911.7		+
	+		+	1	1	+	1	_	+	+	1	1	223	915.1	911.7	+	+
	1	1	1			1				1		1	223	010:1	911.4		أحسيسا

Highest Low Floor

NOTES: * INDICATES DROPPED GARAGE ELEVATIONS BASED UPON 12 COURSE BASEMENT (W) INDICATES STATIC GROUNDWATER ELEVATION LOW OPENINGS LISTED ARE REFLECTING THE REAR YARD LOW OPENING

I hereby certify that this survey, plan or report was prepared by me or under my direct supervision and that I am a duly Registered Land Surveyor under the laws of the State of Minnesota.



	E.G. RUD & SONS, INC.
EST, 1977	Professional Land Surveyors 6776 Lake Drive NE. Suite 110
	Lino Lakes, MN 55014 Tel. (651) 361-8200 Fax (651) 361-8701

DRAV	WN BY: MMD	JOB NO: 230743 DATE: 03/	20/24			
CHEC	K BY: JER	FIELD CREW:DT/CT				
1	04/17/24	CITY COMMENTS	MMD			
2	05/22/24	CITY COMMENTS	MMD			
3	06/25/24	TRAIL EASEMENT / XYLITE LOTS	MMC			
4	07/29/24	GEO. REPORT / FLOORS				
5	08/08/24	11-2 ANTICIPATED GROUNDWATER	MMD			
NO.	DATE	DESCRIPTION	BY			

LIVABILITY CHART

~of~ SWEDISH CHAPEL ESTATES ~for~ MN DEVELOPMENTS, LLC. 17404 WARD LAKE DRIVE NW ANDOVER, MN 55304 (612) 799-1471

Livability Standards
Air readential lots shall contain at least 29,500 square feet of land which lies above the
100 year flood contour. Of this 29,500 square feet, the following additional requirements
must be present.

A 15TS Area. Each lot must contain at least 7:500 square feet of contiguous area which is reserved for both the 15TS originally constructed and a future 15TS. The 15TS Area need not be contiguous to the Figilite building Area or the Yard Area, but the entire 15TS Area neust exist at an elevation at least one foot above Insulated Soils, and must contain Undusturbed Soil or soils which meet the requirements of Rule 7060 of the Minnesota Pollution Control Agency for 15TS construction standards. The 15TS Area may be irregular in shape, provided they do not encroach into areas reserved by easterner or otherwise for roadway, drainage or utility purposes, and provided that of 10 the area can be reasonably used for 15TS construction without the need for variances.

B. Eligible Building Area Each (to shall contain a least it) 200 square feet of contiguous land which less at an elevation at least thur fast above Unsuitable Soils. The Eligible Building Area may not be regular in shape, and should be generally rectangular or ovoid, with no panhandles, narrow necks or pennisulas. Eligible Building Areas may not her chroach into any areas reserved by easement of otherwise for roadway, drainage or utility purposes. Fill may be used to create Eligible Building Area.

C. Yard Area Each lot shall contain at least 12,000 contiguous square feet which:

r) Lies above the 100 year flood contour, and ii) Lies at least one foot above soils unsuitable for the Intended usage of the Yard area, and

ry, use a mass, one root above sous unsuitable for the Intended usage of the Yard area, and the Eligible Building Area for a distance of at least fifty percent of the Intended perimeter of the Eligible Building Area. Yard Areas may encreach into the decidated assement area which less at a distance of ten feet from the perimeter of the Intel, and may encreach into an easi reserved by easement or otherwise for other public utility purposes, but may not encreach into any other area reserved by decidant or or therwise for road or dranage purposes, any may not encreach find any seas within the 100 year flood contour or into designated locations where the Yard Area for configuration the Eligible Building Area, at which locations the Yard Areas shell be a logical extension or expansion of the generally rectangular or ovoid shape of the Eligible Building Area. Fill may be used to create Yard Areas.

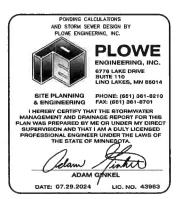
D. Building Pad Areas The entire Building Pad must lie within the Eligible Building Area, and shall meet the separation requirements for the Eligible Building Area.

E. Low Floor Elevations

Low Floor Elevations

I) For walkout designs, the low floor elevation shalf be at least two feet's above the 100 year flood contour, but, notwithstanding the 100 year flood contour, not less than one foot above unsuitable soils, as determined by the City's engineer.

I) For other designs, the low floor elevation shall be at least two feet above the 100 year flood contour, but, notwithstanding the 100 year flood contour, but, notwithstanding the 100 year flood contour, not less than one foot above unsuitable soils, as determined by the City's engineer.



											Highest Anticipated	Low Floor					
				0 0 1 1 0	B War - B K	Daniel Dallatine Deal	Carrage Class	Consequent to an	Proposed Low	Lawset Floor	Groundwarer		Boring #	Boring	Moltles	Building	Custom
Lot	Block			Septic Area (sq. ft)	(sq. ft.)	Proposed Building Pad 4' Above Unsuitable (sq. fl.)	Elevation	Floor Elev.	Opening	Elevation	Elevation	Factor	Doinig #	Elevation	Elevation	Type	Gradeo
10	3	(sq. ft.) 69,139	(sq fl.) 20,839	(sq. ft.) 8,455	10,900	8,664	919.2	911.5	911.5	911.5	908.5	Anticipated	215	913.2	911.5	W.O.	NO
	-	05, 138	20,050	0,430	10,000	0.007	0.15.2		-			Groundwater	216	914.7	911.2		t –
	1												217	914.9	911.4		
									1				218	915.5	911.6		L
													219	915.2	911.5		
11	3	96.588	15,514	7,889	10,674	6,912	918.5	911.5	911.6	911.5	908.5	Anticipated	ST-3	910.6	903.6(W)	W.O.*	NO
												Groundwater	9	910.8	910.1	DROP 1 COURSE	1
										-			35 211	911.4 911.8	910.6	LOURSE	-
											-		212	912.3	911.1		1
	-												213	916.9	912.6		1
													214	912.4	911.2		
12	á	53,438	14,194	7.977	10,185	8,825	917 8	911.5	911.5	911.5	908.5	Anticipated	10	911 0	910.3	W.O.*	NO
12		53,450	14,104	7,077	10.100	0,000						Groundwater	14	911.0	909.8	DROP	
		-											36	911.9	908.9	2 COURSE	
	† T												204	913.6	910,6		
													205	913.1	910.1		-
									ļ			_	206	911.1	909.9		-
								211.5	014.5	044.5	000.5	A -state-stand	207	911.7 911.2	910.0	W.O	NO
13	3	56,351	12,790	7,823	10,483	5,815	918.5	911.5	911.5	911.5	908.5	Anticipated	37 202	912.9	911.4	DROP	MO
												Groundwater	203	914.3	911.1	1 COURSE	-
	-										-		208	911.9	910.2		_
		-	-		1						 		209	911.6	910.5	1	1
14	3	65,131	18,261	7.796	11,011	7,912	917.8	911.5	911.5	911.5	908.5	Anticipated	19	911.6	910.6	W.O *	NO
14	-	00,131	10,201	1.100	11,011	.,	777.0	271.0			1	Groundwater	198	911.3	909.9	DROP	
													199	910.9	909.7	2 COURSE	
	t								1				200	912.9	910.9		
													201	912.5	910 8		1
15	3	69.797	18.620	8,079	10.511	9.123	918.5	911.5	911.5	911.5	908.5	Anticipated	18	910.7	909.6	W.O.	NO
									1		-	Groundwater	193	911.4	910.3	DROP	-
													194	913.6	910.6	1 COURSE	ļ
											-		195 196	916.9	912.7	-	-
									-				197	911.2	910.3	-	+
	-		04 400	0.000	10.040	10.040	919.5	912.5	915.7	911.5	908.5	Anticipated	158	914.7	911.7	LO.	NO
16	3	44,880	21,402	8,288	10,049	10,049	919.5	812.0	915.7	811.0	300.5	Groundwater	159	915.0	912.8	DROP	1.10
	-	-									 	Organianator	160	917.4	912.8	1 COURSE	E
	1			-									161	915.3	913.3		
	1	-			1		1			i -	Ť		162	915.4	912.7		
17	3	47,906	14,400	7,899	10,901	10,901	918.8	912.5	915.7	910.5	907.5	Anticipated	155	913.2	909.7	L.O °	NO
									1			Groundwater	156	912.9	909.9	DROP	
	1						1						157	915.8	912.3	2 COURSE	E
													163	915,9	912.9		
											1	1	164	915.1	912.4	L.O.*	110
18	3	47,208	15,445	8,018	10,090	10,090	918.0	911.0	914.2	910.5	907.5	Anticipated	40	912.3 911.9	911.1	DROP	NO
	-	ļ			ļ			ļ		-	 	Groundwater	152 153	912.4	910.6	1 COURSE	F
	-								+	_			154	912.8	909.8	1 000000	
	+			-			+		+	1		-	165	915.4	912.1		_
	+		-				1	1	1				166	914.4	910.9		
19	3	43,750	19,301	7,778	10.038	10,038	922.5	915.5	915.5	911.5	908 5	Anticipated	ST-2	917.3	905.3(W)	W.O.*	NO
	1	101.100	10,000						1			Groundwater	167	915.4	912.7	DROP	J
													168	916.0	912.3	1 COURSE	E
													169	916.8	913 1		
										ļ			170	912.6	911.6		-
											000.0	4-12-1-1-1	171	912.3	911.0	INIO	NO.
20	3	65.387	20.806	7,980	10,909	8,387	918.5	911.5	911.5	911,5	908.5	Anticipated	188	914.7	911.4	DROP	NO
	1	1		-			+	-	+	-		Groundwater	189	916,0 915.8	913.6	1 COURSE	E
	+	+	-					1	_	+		1	191	912.2	911.2	. 55000	-
	+	-	_		1					-	1		192	911.0	909.8		1
21	3	141.008	22,817	7,786	11.694	5,816	918.5	911.5	911.5	911.5	908.5	Anticipated	17	911.5	910.8	W O.*	NO
e 1	1		,0	.,,,,,,	1		1	1		1	1	Groundwater	39	911.6	910.9	DROP	
													178	914.8	911.1	1 COURSE	E
		1											179	914.5	911.0		1
											-	1	180	912.0	910.9	+	+
							1					+	181	911.4	910.4		+
	-	1			-				-	-	-	+	182	911.9	910.8	1	+
00	1	47.000	OF ARC	7.007	10.000	7.087	918.7	911.7	911.7	911.5	908.5	Anticipated	175	914.2	911.0	W.O.*	NO
22	3	47.937	25,289	7,997	10.386	1.087	918.7	911.7	311.7	\$11.5	au6.5	Groundwater	176	914.2	910.7	DROP	100
	1	1	\vdash			-	+		1	1	1	5.55/10/10/10/	177	912.6	911.4	1 COURS	E
	+	+	†		1		1	1		1			184	912.0	910.7		
	1	-	 						1		1		185	913.0		T	
23	3	45.626	20,364	7,718	10.334	10,334	920.8	913.8	913.8	911.5	908.5	Anticipated	16	912.2	911.4	W.O.1	NO
	1	1										Groundwater	41	912.7	910.2	DROP	
	į –	1	1										172	912.1	910.9	1 COURS	E
		1					[173	913.0	911.3		
													174	915.0		ļ	1
											1		186	912.5		-	-
											1	1	187	912.2		111.0	1
24	3	58,259	24.237	8,350	10,265	10,265	920.8	914.5	914.5	910.5	907.5	Anticipated	15	913.0		W.O.*	NO
	1							-	1		1	Groundwater	148	915.7	911.2	DROP 2 COURS	-
	1	1	1				-	-		1	-		149	915 4		Z COURS	=
	1						-	1	1		+		150 151	917.3 914.8	912.7 911.8	1	-
	-															1	1
OUTLOTIC		3,696		NA NA	NA	NA NA	NA	NA NA	NA.	NA NA	NA NA	NA	-		1	1	

NOTES: * INDICATES DROPPED GARAGE ELEVATIONS BASED UPON 12 COURSE BASEMENT

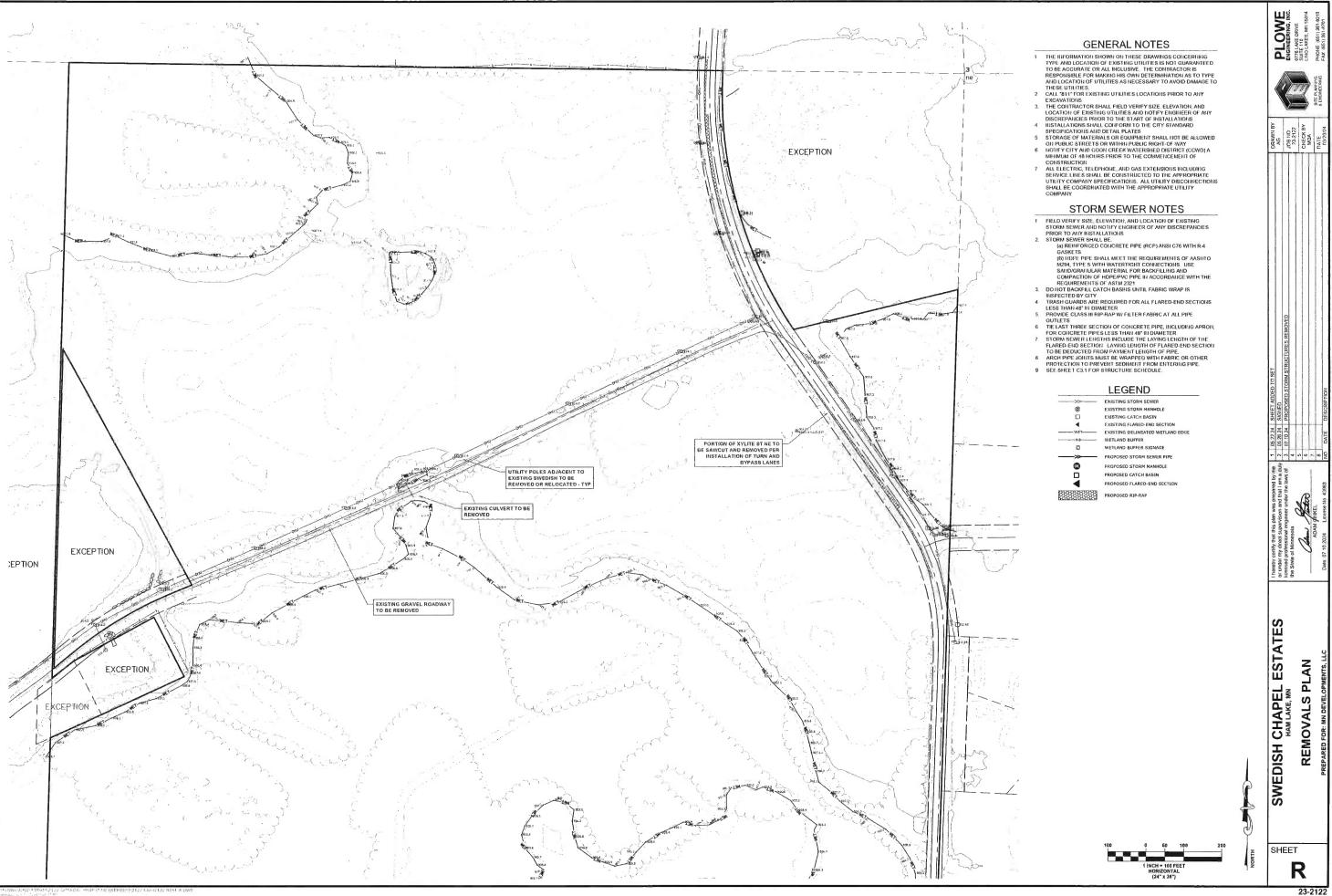
(W) INDICATES STATIC GROUNDWATER ELEVATION LOW OPENINGS LISTED ARE REFLECTING THE REAR YARD LOW OPENING

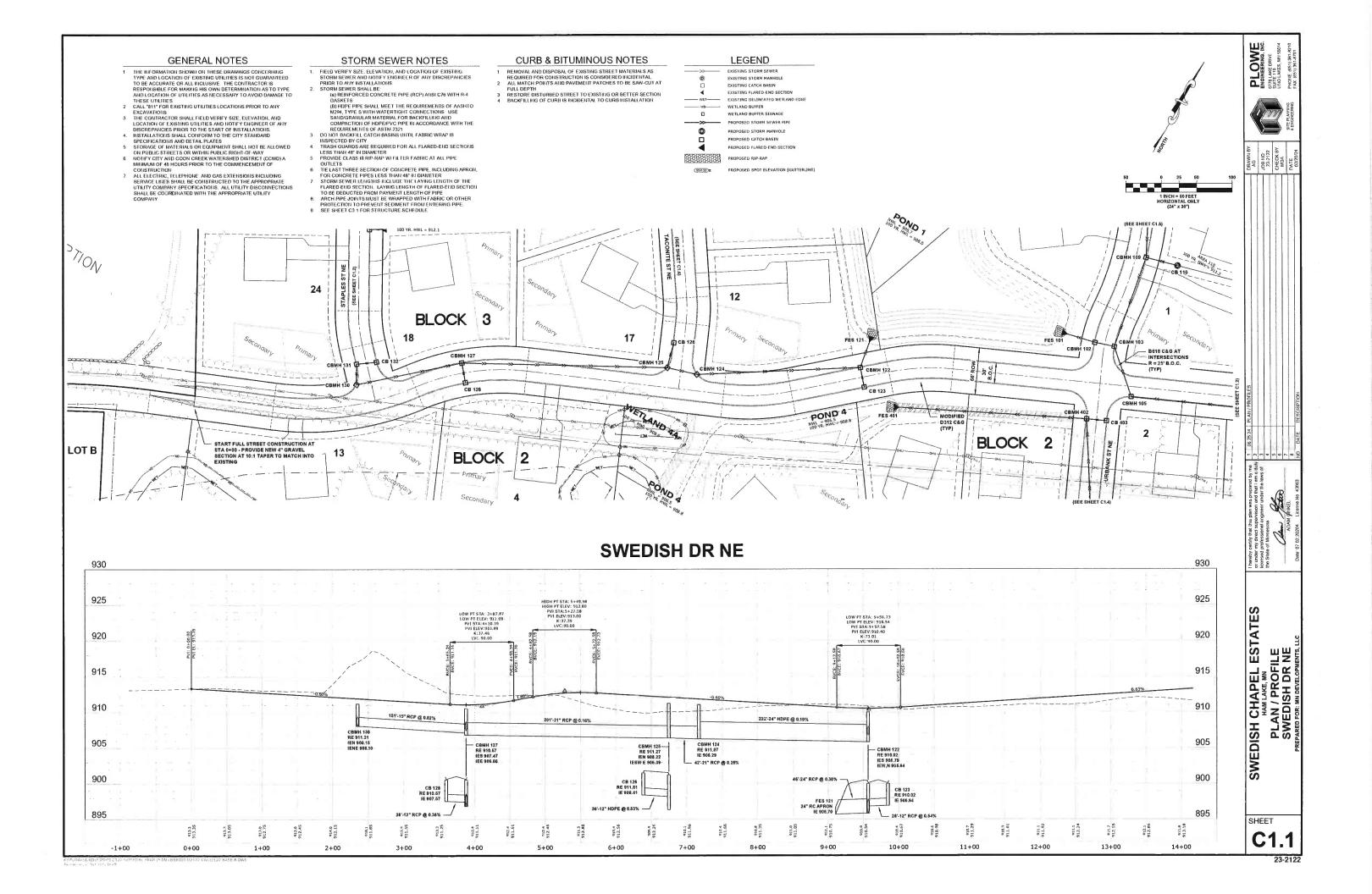
I hereby certify that this survey, plan or report was prepared by me or under my direct supervision and that I am a duly Registered Land Surveyor under the laws of the State of Minnesota.

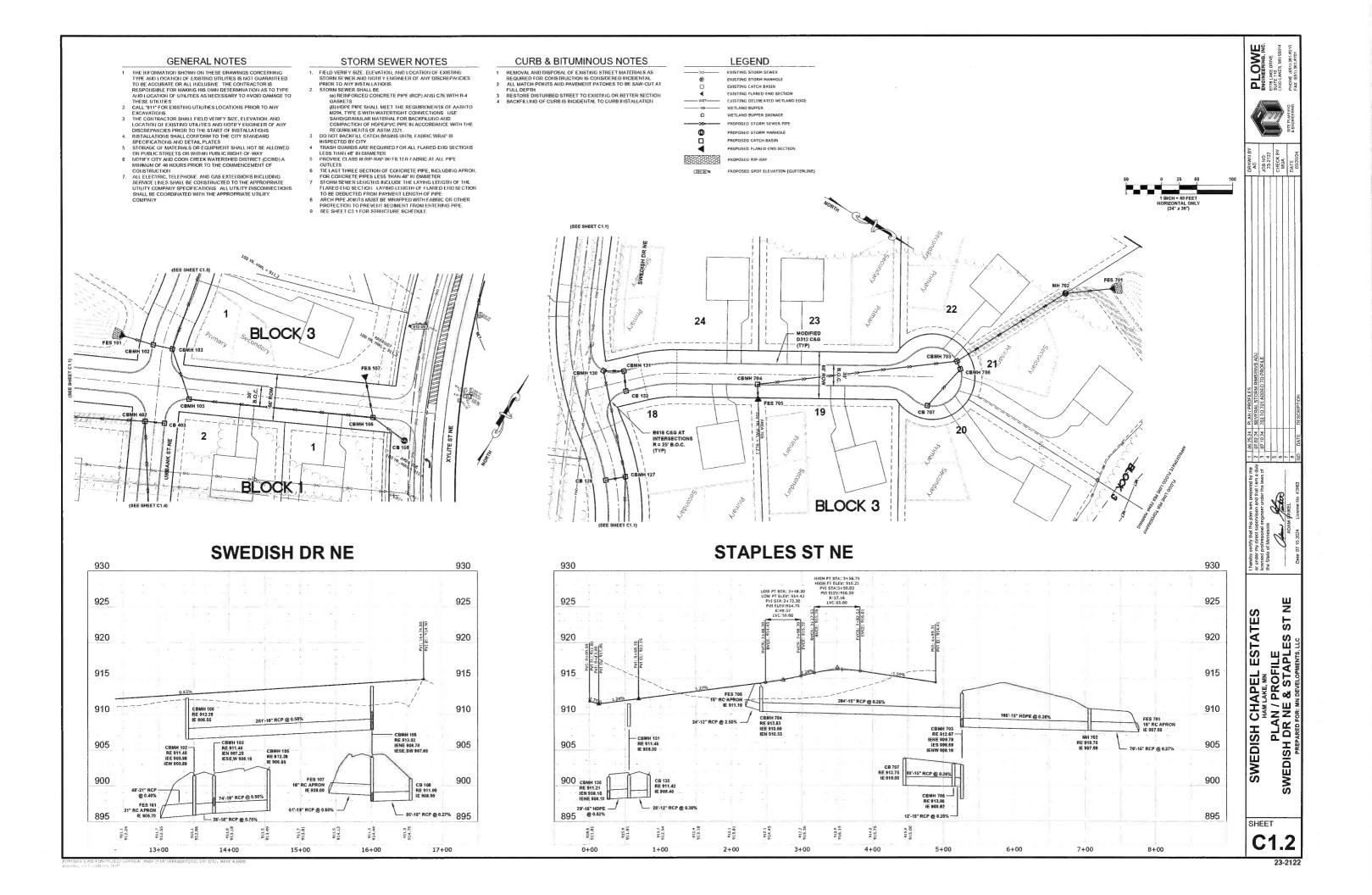


E.G.	RUD	& S	SONS	, INC.
Profes 6776 Lino I	ssiona Lake D .akes,	l Laı rive MN	nd Sui NE, S 55014	rveyors uite 110 I
Tel. (651)	361-8200	Fax (6	51) 361-87	701

DRAV	YN BY: MM	0 JOB NO: 230743 DATE: 03/	20/24
CHEC	K BY: JER	FIELD CREW: DT/CT	
1	04/17/24	CITY COMMENTS	MME
2	05/22/24	CITY COMMENTS	MMC
3	06/25/24	TRAIL EASEMENT / XYLITE LOTS	MME
4	07/29/24	GEO. REPORT / FLOORS	MME
NO.	DATE	DESCRIPTION	BY







GENERAL NOTES

- 1 THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING THE INFORMATION SHOWN ON THESE UNIVERSITIES GOTECHNING.
 TYPE AIND LOCATION OF EXISTING UTILITIES IS NOT QUARANTEED.
 TO BE ACCURATE OR ALL HICLUSIVE. THE CONTRACTOR IS
 RESPONISHED FOR MANILIO HIS OWN DETERMINATION AS TO TYPE
 AND LOCATION OF UTILITIES AS NECESSARY TO AVOID DAMAGE TO
 WEETER WAS ASSETTED.

- MINIMUM OF 40 HOURS PRIDE TO THE COMMERCEMENT OF CONSTRUCTION OF THE CONSTRUCTION OF THE COMMERCEMENT OF THE CONSTRUCTED TO THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS ALL UTILITY OSISCONNECTIONS SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY.

STORM SEWER NOTES

- 1. FIELD VERIFY SIZE, ELEVATION, AND LOCATION OF EXISTING
- FIELD VERIEY SIZE, ELEVATION, AND LOCATION OF EXISTING STORM SEWER AND HOTHY ENGINEER OF ANY DISCREPANCIES PRIOR TO ANY INSTALLATIONS.

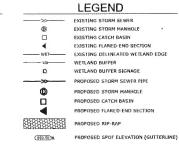
 STORM SEWER STALL BE:

 (a) REINFORCED CONCRETE PIPE (RCP) ANSI C76 WITH R-4 GASKETS (b) HIDPE PIPE SHALL MEET THE REQUIREMENTS OF AASHTO M294, TYPE SWITH WATERTIGHT CONNECTIONS USE SANDIGRANULAR MATERIAL FOR BACKFILLING AND COMPACTION OF HOPE-PVC PIPE IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM 237 DO NOT BACKFILL CATCH BASINS UNTIL FABRIC WRAP IS INSPECTED BY CITY THE RESUMERMENTS OF ASTM 237 THE ARSH GUARDS ARE REQUIRED FOR ALL FLARED-EIID SECTIONS LESS THAN 48° IN DIAMETER

- LESS THAN 48" IN DIAMETER
 PROVIDE CLASS IN RIP-RAP W/FILTER FABRIC AT ALL PIPE
- 5 PROVIDE CLASS III RIP-RAP W/FILTER FABRIC AT ALL PIPE
 6 THE LAST THREE SECTION OF CONCRETE PIPE, INCLUDING APRON,
 FOR CONCRETE PIPES LESS THAN AS IN DIAMETER
 7 STORM SEWER LENGTHS INCLUDE THE LAYING LENGTH OF THE
 FLARED-END SECTION. LAYING LENGTH OF FARED-END SECTION
 TO BE DEDUCTED FROM PAYMENT LENGTH OF PIPE
 6 ARCH PIPE JOINTS MUST BE WRAPPED WITH FABRIC OR OTHER
 PROTECTION TO PREVENT SEDIMENT FROM ENTERING PIPE.
 9 SEE SHEET C3 1 FOR STRUCTURE SCHEDULE

CURB & BITUMINOUS NOTES

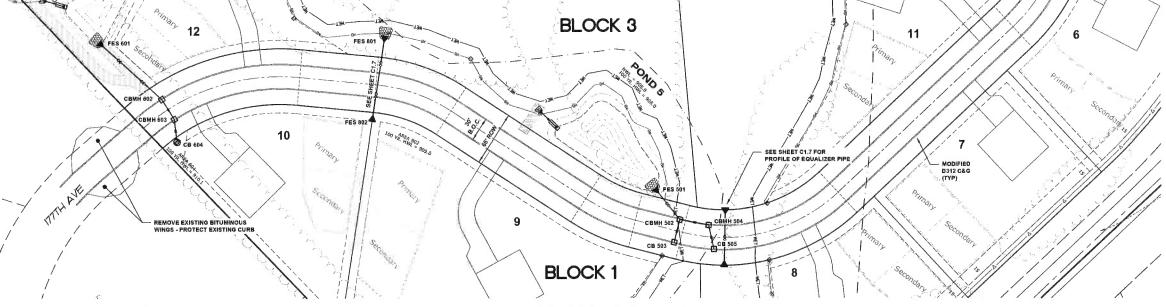
- REMOVAL AND DISPOSAL OF EXISTING STREET MATERIALS AS REQUIRED FOR CONSTRUCTION IS CONSIDERED INCIDENTAL
 ALL MATCH POHITS AND PAYEMENT PATCHES TO BE SAW-CUT AT FULL DEPTH
 RESTORE DISTURBED STREET TO EXISTING OR BETTER SECTION
 BACKFILLING OF CURB IS INCIDENTAL TO CURB HISTALLATION.

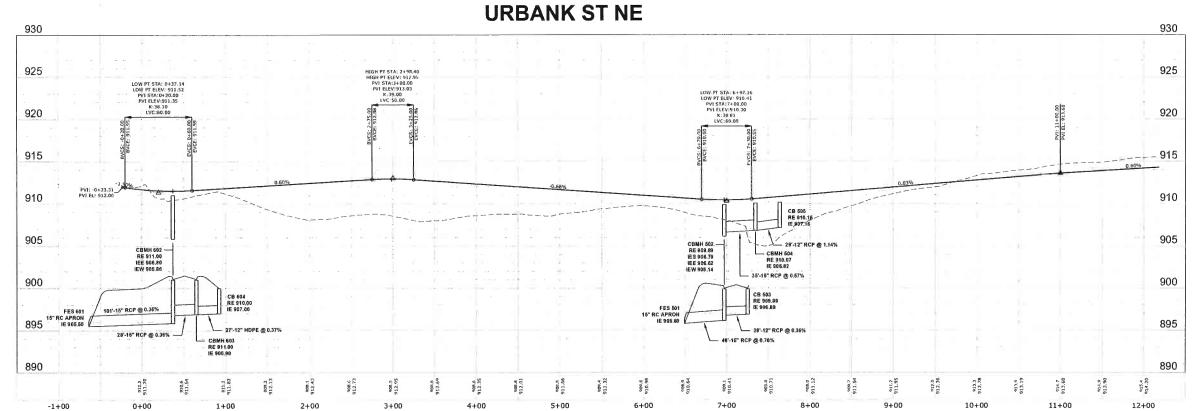






PLOWE
engineering, inc.
guite 110
Suite 110
Ling Lake S, MH 55014
Ling Lake S, MH 55014
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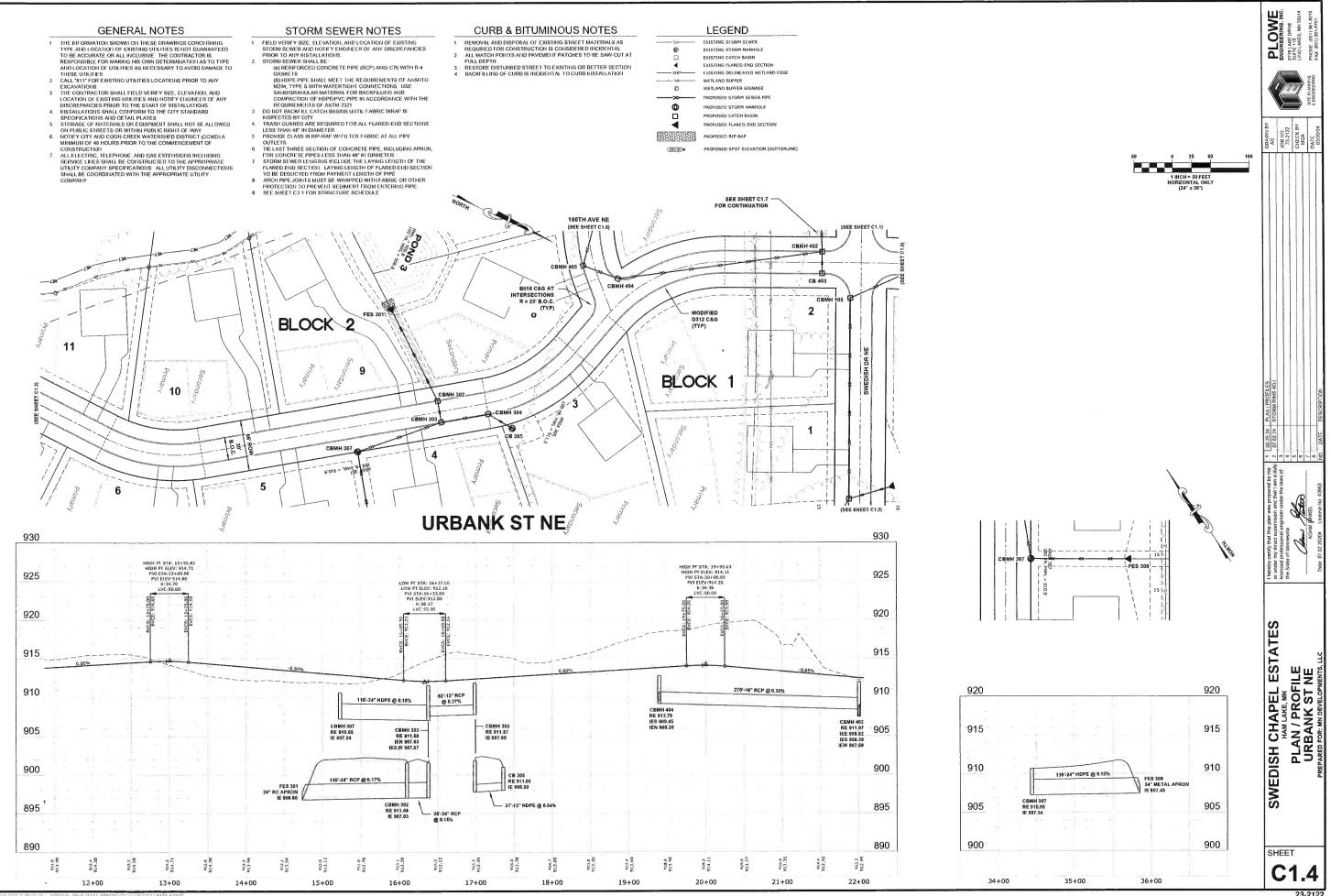


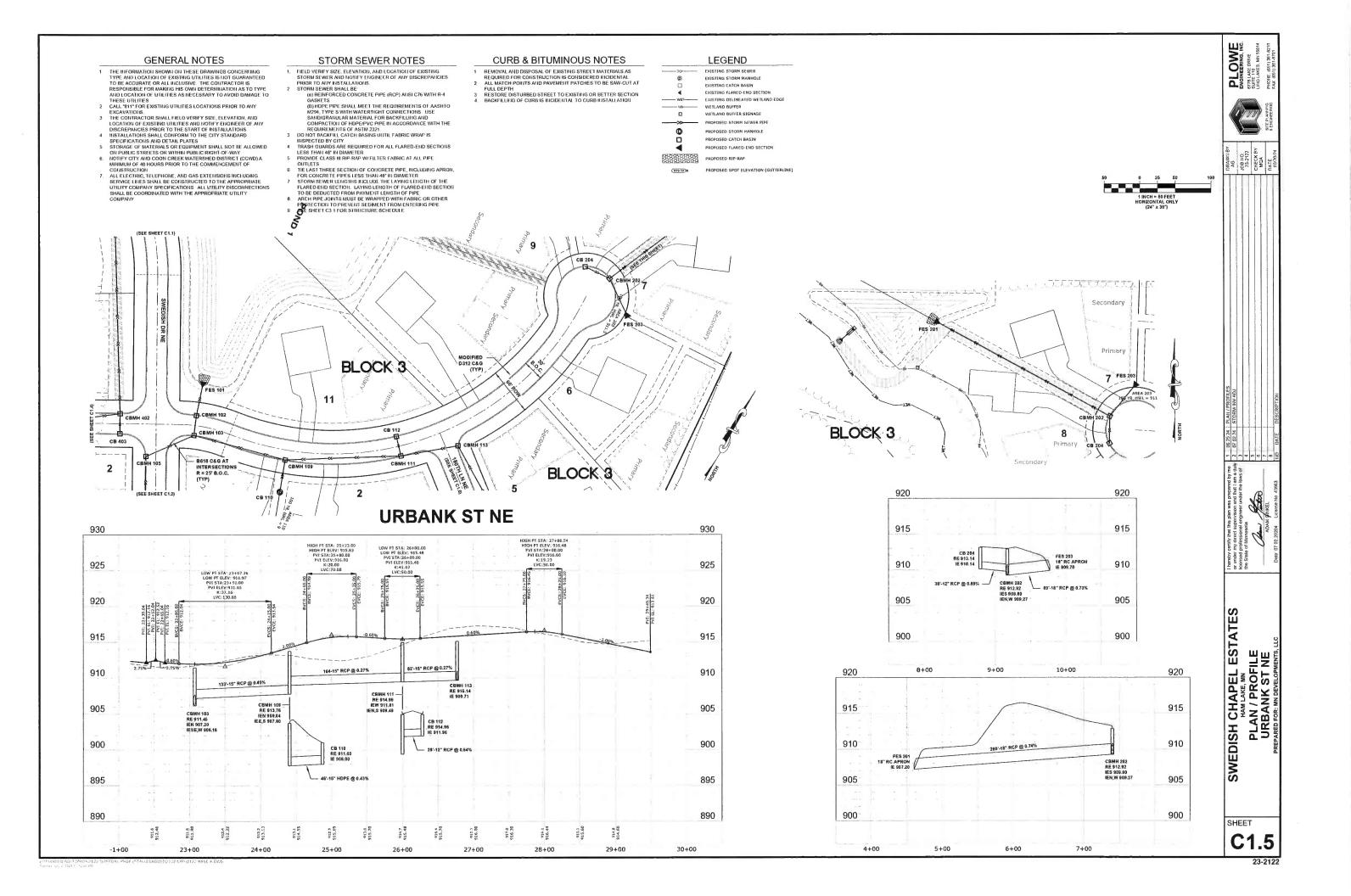


SHEET

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SWEDISH CHAPEL ESTATES
HAWLAKE, MN
PLAN / PROFILE
URBANK ST NE
PREPARED FOR: MN DEVELOPMENTS, LLC





GENERAL NOTES

- GENERAL NOTES

 1 THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING
 1 YPE AND LOCATION OF EXISTING UTILITIES IS NOT GUARANTEED
 10 BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS
 RESPOLISIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE
 AND LOCATION OF UNILTIES AS NECESSARY TO AVOID DAMAGE TO
 THESE UTILITIES
 2 CALL "811" FOR EXISTING UTILITIES LOCATIONS PRIOR TO ANY
 EXCAVATIONS.
 3 THE CONTRACTOR SHALL FIELD VERIFY SIZE, ELEVATION, AND
 LOCATION OF EXISTING UTILITIES AND HOTHEY EVIGINEER OF ANY
 DISCREPANCIES PRIOR TO THE START OF HISTALLATIONS.
 4. HISTALLATIONS SHALL CONFORM TO THE CITY STANDARD
 SPECIFICATIONS AND DETAIL DATES
 5 STORAGE OF MAREINALS OR EQUIPMENT SHALL NOT BE ALLOWED
 ON FUBLIC STREETS OR WITHIN PUBLIC RICHT-OF-WAY
 INSTALLATIONS SHALL OFFICENT THE SHEED INSTRUCTION,
 MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF
 CONSTRUCTION.

- MINIMUM OF 48 HOURS PHORE TO THE COMMERCEMENT OF CONSTRUCTION.

 7. ALL ELECTRIC, TELEPHONE AND GAS EXTERISIONS INCLUDING SERVICE LINES SHALL BE CONSTRUCTED TO THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS. ALL UTILITY DISCONNECTIONS SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY.

STORM SEWER NOTES

- STORMS SEVER NOTES

 FIELD VERIFY SIZE ELEVATION, AND LOCATION OF EXISTING STORM SEWER AND LIGHTY FINGHEER OF ANY DISCREPANCIES PRIOR TO ANY INSTALLATIONS.

 STORM SEWER SHALL BE:

 (a) REHIFORCED CONCRETE PIPE (RCP) ANSI C76 WITH R-4 GASKETS

 (b) HDDP PIPE SHALL MEET THE REQUIREMENTS OF AASHTO M29M, TYPE S WITH WATERTIGHT CONNECTIONS USE SANDIGRABULAR MATERIAL FOR BACKFILLING AND COMPACTION OF THE PIPE IN ACCORDANCE WITH THE REQUIREMENTS OF ASIN 227.

 DO NOT BACKFILL CATCH BASINS UNTIL FABRIC WRAP IS HISPECTED BY CITY
- HISPECTED BY CITY
 TRASH GUARDS ARE REQUIRED FOR ALL FLARED-END SECTIONS
- LESS THAN 48" IN DIAMETER PROVIDE CLASS III RIP-RAP W/FILTER FABRIC AT ALL PIPE
- 5 PROVIDE CLASS IN RIP-RAP WIFILTER FABRIC AT ALL PIPE
 OUTLIETS
 6 TIE LAST THRE SECTION OF CONCRETE PIPE, INCLUDING APRON,
 FOR CONCRETE PIPES LESS THAN A8" HI DIAMETER
 7 STORM SEWER LENGTHS INCLUDE THE LAYING LENGTH OF THE
 FLARED-RID SECTION. LAYING LENGTH OF FLARED-RID SECTION
 TO BE DEDUCTED FROM PAYMENT LENGTH OF PIPE
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CURB & BITUMINOUS NOTES

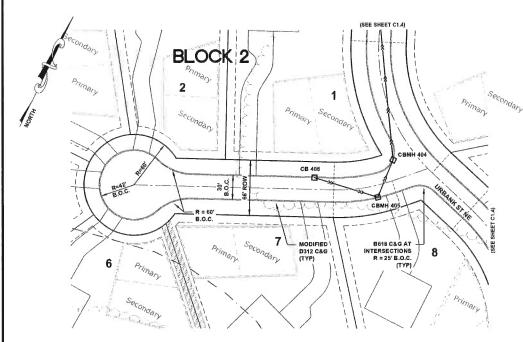
- REMOVAL AND DISPOSAL OF EXISTING STREET MATERIALS AS REQUIRED FOR CONSTRUCTION IS CONSIDERED HIGDENTAL ALL MATCH POINTS AND PAVEMENT PATCHES TO BE SAW-CUT AT FULL DEPTH.
 RESTORE DISTURBED STREET TO EXISTING OR BETTER SECTION BACKFILLING OF CURB IS INCIDENTAL TO CURB HISTALLATION

LEGEND EXISTING STORM SEWER EXISTING STORM MANHOLE EXISTING CATCH BASIN EXISTING FLARED-END SECTION EXISTING DELINEATED WETLAND EDGE WETLAND BUFFER WETLAND BUFFER SIGNAGE PROPOSED STORM SEWER PIPE PROPOSED STORM MANHOLE PROPOSED FLARED-END SECTION PROPOSED RIP-RAP

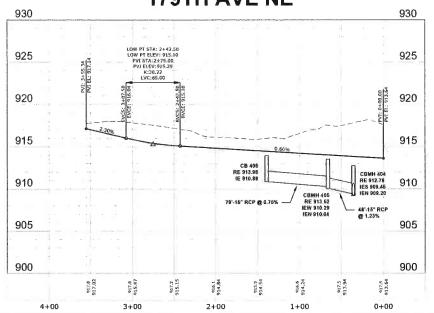
PROPOSED SPOT ELEVATION (GUTTERLINE)

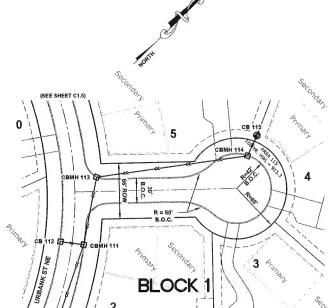


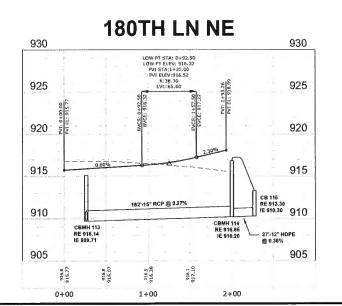


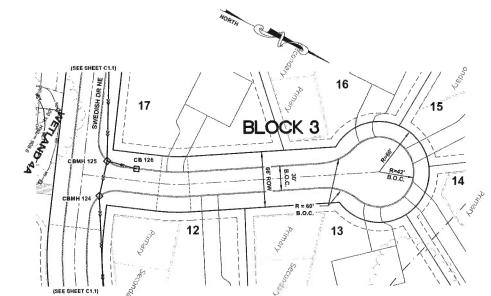


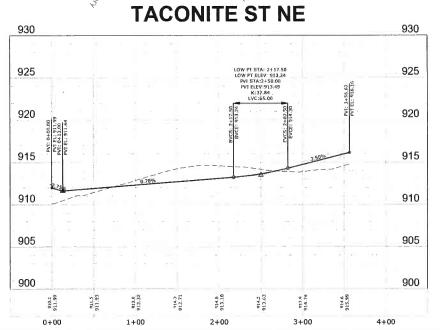












PLOWE ENGINEERING, INC. STALAKE DRIVE. ILING LAKES, MIL 55014 PHONE (651) 381-8210 FAX (651) 381-8210



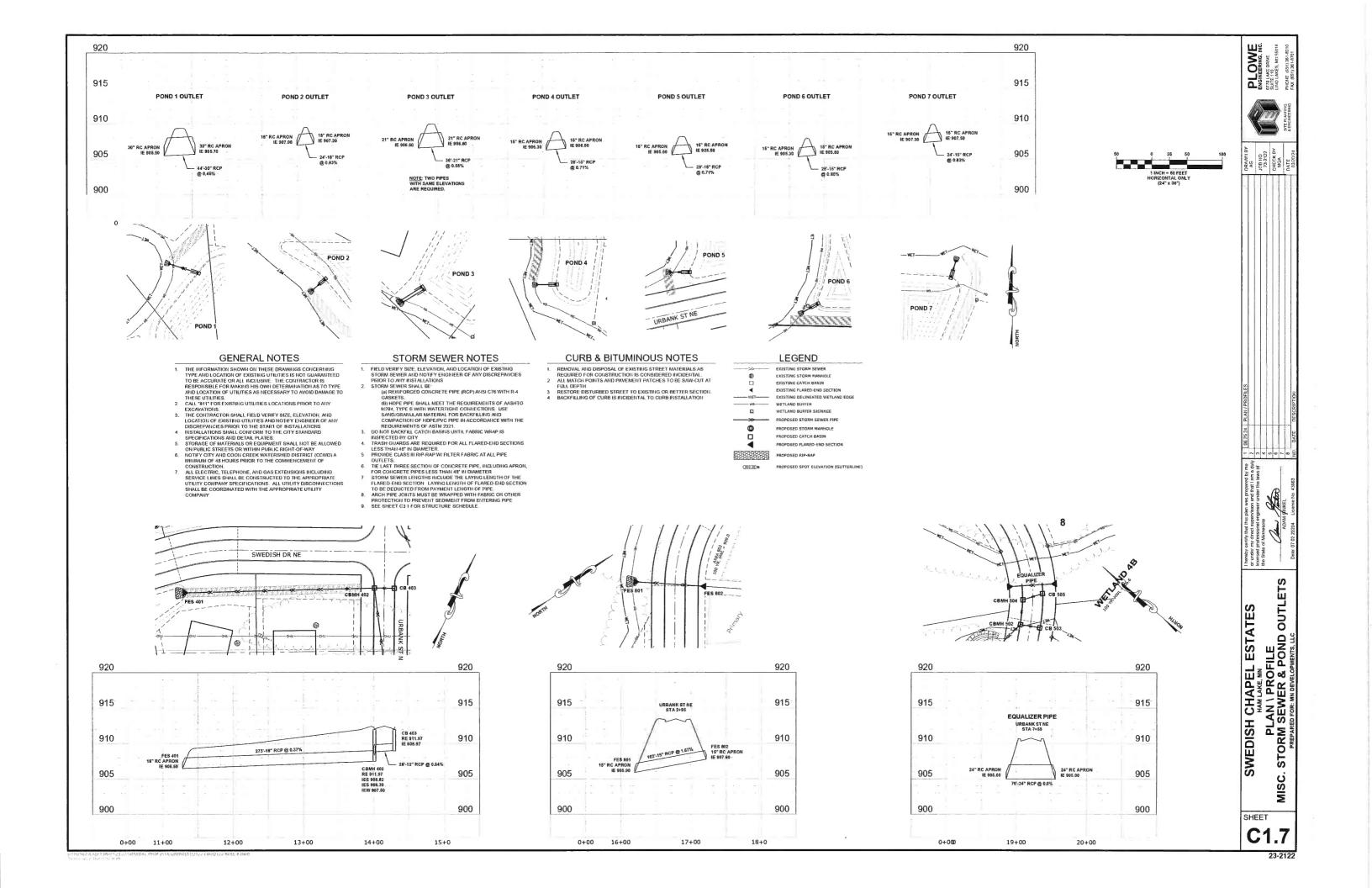


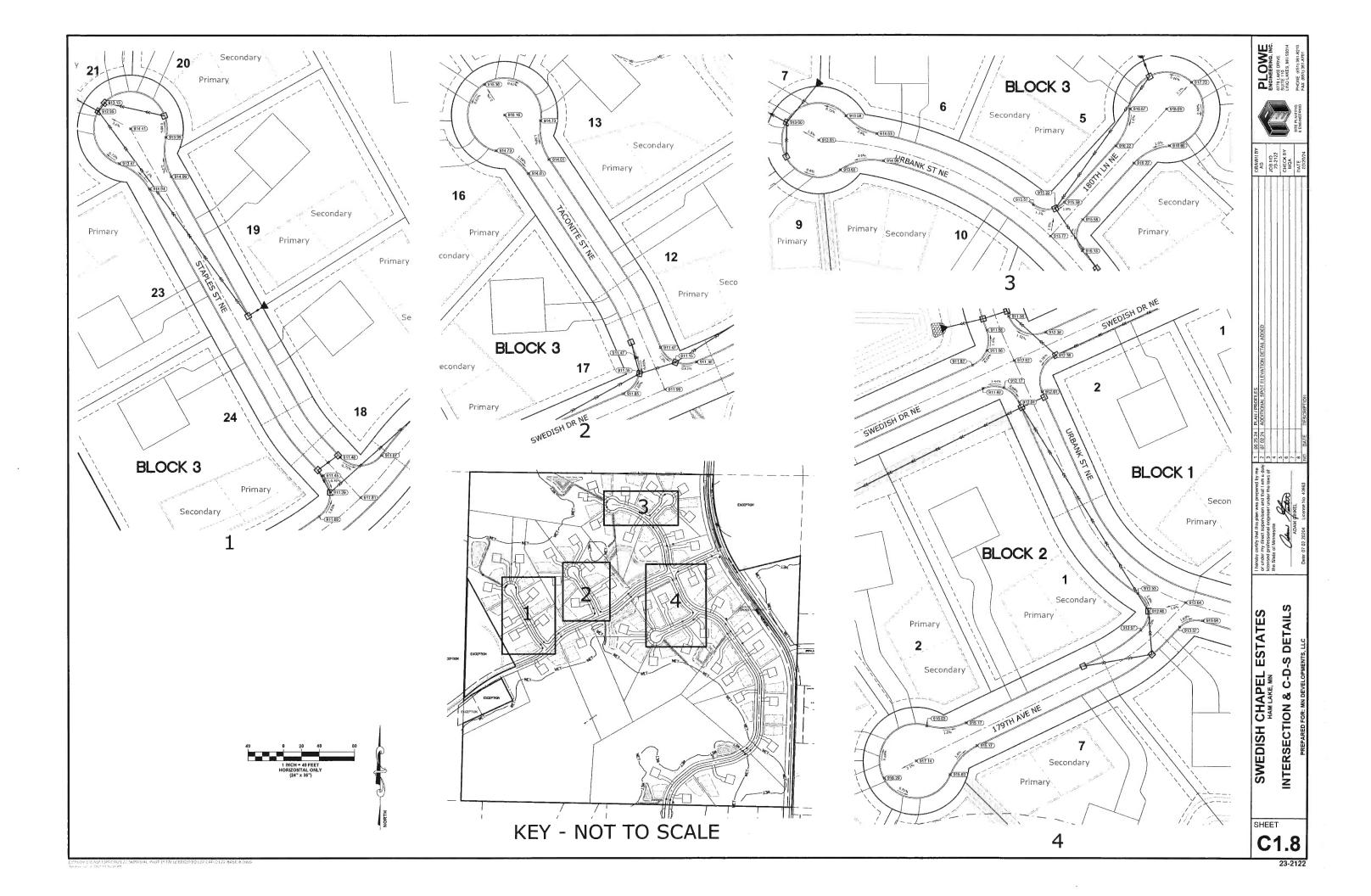
SWEDISH CHAPEL ESTATES

HAMLAKE, MN
PLAN / PROFILE
79TH AVE, 180TH AVE, TACONITE 179TH /

SHEET

C1.6 23-2122





PROJECT LOCATION 2505 SWEDISH DR INE HAMLAKE MI155094 AHOKA COURTY LATITUDE. 45.29521 LORIGITUDE 93.20970 DEVELOPER MI DEVELOPERHIS, LLC 1740H WARD LAKE DR ITM AMDOVER, MI 55304 CONTACT HAME. JEFF STALLBERGER CONTACT PROJECT GOTTACT HAME. SIBLY 66/2/78147 CONTACT HAME. SIBLY 66/2/78147 GEHERAL CONTRACTOR TBO MARRATIVE - PERMANENT STORMWATER TREATMENT SYST PERMANENT STORMWATER MANAGEMENT PEATURES W PONDS SEE "STORMWATER DRAINAGE REPORT FOR FL
DEVELOPER MIDDEVELOPER MIDDEVELOPERIS, LLC 17400 WARD LAKE OR HW AMDOVER MIN 55304 CONTACT PHONE: (612) 779-1471 COHTACT E-MAIL: slaty68@msn.com GEHERAL CONTRACTOR TBD MARRATIVE - PERMANENT STORMMATER TREATMENT SYST PERMANENT STORMMATER DRAINAGE REPORT FOR RE
MI DEVELOPMENTS, LLC 1/1401 WARD LAKE DR ITW ANDOVER, MN 55304 CONTACT HAME CONTACT PHONE: (6/2) 778-1471 CONTACT E-MAIL: sially@@man com GEHERAL CONTRACTOR TBD MARRATIVE - PERMANENT STORMMATER TREATMENT SYST PERMANENT STORMMATER DRAINAGE REPORT FOR RU
GEHERAL CONTRACTOR TBD MARRATIVE - PERMANENT STORMMATER TREATMENT SYST PERMANENT STORMMATER TREATMENT FEATURES W PORIOS SEE "STORMMATER DRAWAGE REPORT" FOR PL
HARRATIVE - PERMANENT STORMMATER TREATMENT SYST PERMANENT STORMMATER MANAGEMENT FEATURES W PONDS SEE STORMMATER DRANGES REPORT FOR RU
PERMANELIT STORMWATER MANAGEMENT FEATURES W PONDS SEE "STORMWATER DRAINAGE REPORT" FOR FL
BEFORE
ANALYZED AREA 11
TOTAL ESTIMATED IMPERVIOUS 0 89 ACRES TOTAL ESTIMATED PERVIOUS 110 53 ACRE
T <u>otal disturbed area</u> -34 0 agres
SITE MAP W. EXISTING AND FINAL GRADES AND DESIGN CAN SEE "STORMWATER DRAINAGE REPORT" FOR EXISTING DENOTING DRAINAGE AREA BOUNDARIES, DIRECTIONS O WHERE STORMWATER LEAVES THE SITE
SEE "STORMWATER DRAWLAGE REPORT" FOR EXISTILIG. DELIOTING DRAWLAGE AREA BOUNDARRES, DIRECTIONS O WHERE STORMWATER LEAVES THE SITE RECEIVING WATERS WITHIN ONE MILE.
SEE "STORNIWATER DRAWLAGE REPORT" FOR EXISTILIG, DEHOTHING PORMAIGE AREA BOUNDARIES, DIRECTIONS O WHERE STORNIWATER LEAVES THE SITE RECEIVING WATERS WITHIN ONE MILE NAME OF WATER BODY TYPE OF WATER BODY
SEE "STORMWATER DRAWLAGE REPORT" FOR EXISTILIG, DEHOTING PROMINAGE AREA BOUNDARIES, DIRECTIONS O WHERE STORMWATER LEAVES THE SITE RECEIVING WATERS WITHIN ONE MILE HAME OF WATER BODY UNIAMED WETLANDS WETLAND WETLAND
SEE "STORNIWATER DRAWLAGE REPORT" FOR EXISTILIG, DEHOTHING PORMAIGE AREA BOUNDARIES, DIRECTIONS O WHERE STORNIWATER LEAVES THE SITE RECEIVING WATERS WITHIN ONE MILE NAME OF WATER BODY TYPE OF WATER BODY

BUFFER TO SU	RFACE WATER IF THE SITE DRAINS TO A SURFACE	E WATER, IS A	SO-FT NATUR	IAL BUFFER ADI	ACENT TO
YES NO NA	THE SURFACE WATER PRESERVE			DO 4 D DETO 150	
	NOTE: NATURAL BUFFERS ARE NO JUDICIAL DITCHES, COUNTY DITC STORM DRAIN INLETS, AND SEDI	HES, STORMW	ATER CONVE		
	A) WHERE A SO-FT BUFFER CONTROL MEASURES A			DUNDANT SEDI	MENT
TEMPORARY S	EDIMENTATION BASINS				
YES NO IVA	IF TEN (10) OR MORE ACRES O LOCATION, IS A TEMPORARY S THE RUNOFF BEFORE IT LEAVE SURFACE WATERS?	EDIMENT BAS	SIN PROVIDE	D FOR TREATA	MENT OF
	A) BECAUSE THIS SITE IS W. REQUIREMENT BECOM!	ES FIVE (5) MIL	ES. THE CON		

MENT FEATURES WILL INCLUDE SEVERAL NURP

111 42 ACRES 0 89 ACRES 10 05 ACRES 110 53 ACRES 101.37 ACRES

DRT' FOR EXISTING AND PROPOSED ARE

TYPE OF SPECIAL IMPAIRED WATER WATER WETLAND NO DITCH NO

INFILTRATION FEASIBILITY	

ARE THERE ANY INFILTRATION RESTRICTIONS FOR THE SITE (SEE 16.14 YES NO MA THROUGH 16.21?

A) THE SITE HAS SANDY SOILS WITH A RELATIVELY HIGH WATER TABLE AND IS

ADDITIONAL STORMWATER MITIGATION MEASURES

ARE THERE ANY STORMWATER MITIGATION MEASURES PER YES 110 • ENVIRONMENTAL REVIEW DOCUMENT?

ENDANGERED SPECIES REVIEW?

ARCHAEOLOGICAL REVIEW?

OTHER LOCAL STATE OR FEDERAL REVIEWS

OTHER LOCAL, STATE OR FEDERAL REVIEW?
 IYES TO AIM OF THE ADDIE, DESCRIBE THE MITIGATION MEASURES FOR PURPOSES OF THIS PERMIT, MITIGATED IMEASURES MEADS ACTIONS HECESSARY TO AVOID, MINIMIZE, OR MITIGATE FOR IMPACTS RELATED TO EROSION PREVETITION, SEMMENT CONTROL, THE PERMANENT STORMWATER TREATMENT SYSTEM, POLLUTION PREVENTION IMPAGEMENT MEASURES AND DISCHARGES, ASSOCIATED WITH THE PROJECTS CONSTRUCTION ACTIVITY

DOCUMENTATION OF TRAINED INDIVIDUALS

A INDIVIDUAL WHO PREPARED THE SWPPE ADAM GINKEL PLOWE EHGINEERING, INC

INDIVIDUAL (S) OVERSEEING IMPLEMENTATION OF REVISING AUDIOR AMENDING THE INDIVIDUALIS) OVERSEENIG IMPLEMENTATION OF, REVISING AUTHOR AMERIUMS I SWPPP AND INDIVIDUALS PERFORMING INSPECTIONS FOR THE PROJECT ONE OF THESE INDIVIDUALS MUST BE AVAILABLE FOR AN OUISITE INSPECTION WITHIN 72 HOURS UPON REQUEST BY THE MPCA [MINH: R. 7090]

CONTACT NAME	
CONTACT PHONE	
CONTACT E-MAIL	

C INDIVIDUAL(S) PERFORMING OR SUPERVISING THE INSTALLATION, MAINTENANCE AND REPAIR OF BMPS. [MINN R. 7080]

COLITACT NAME	
CONTACT PHONE	
CONTACT E-MAIL	

LONG TERM OPERATION AND MAINTENANCE OF PERMANENT STORMWATER FACILITIES THE PROPOSED STORMWATER MANAGEMENT FEATURE FOR THIS SITE IS AN INFILTRATION BASIN AND WILL BE PRIVATELY OWNED AND MAINTAINED

REVEGETATION SPECIFICATIONS

ITEM	MNDOT SPECIFICATION/HOTES
SOD	3878
SEED "	3876
FOR TURF ESTABLISHMENT COMMERCIAL TURF RESIDENTIAL TURF	MNDOT MIX 25-131 (220 LBS/ACRE) MNDOT MIX 25-131 (120 LBS/ACRE)
TEMPORARY FALL COVER SPRING/SUMMER SOIL-BUILDING COVER 1-2 YEARS COVER 2-5 YEARS COVER	MHDOT MIX 21-112 (100 LBS/ACRE) MHDOT MIX 21-111 (100 LBS/ACRE) MHDOT MIX 21-113 (100 LBS/ACRE) MHDOT MIX 22-111 (30.5 LBS/ACRE) MHDOT MIX 22-112 (40 LBS/ACRE)
MULCH	3882 (TYPE 1 - DISC ANCHORED)
HYDROMULCH	3884
ERTILIZER	3881
WOOD FIBER BLAVIKET	3885 (CATEGORY 2)

MOW A MINIMUM OF RESIDENTIAL TURF - ONCE PER 2 WEEKS COMMERCIAL TURF - ONCE PER 4 WEEKS

** SEEDED AREAS SHALL BE EITHER MULCHED OR COVERED BY FIBROUS BLANKETS TO PROTECT SEEDS AND LIMIT EROSION

QUANTITIES - ESTIMATED QUANTITIES FOR EROSION AND SEDIMENT CONTROL MEASURES

TYPE	QTY	UNIT
SILT FENCE		LINEAR FEET
BIO-ROLLS		EACH
RIP-RAP W. GEO-FABRIC		CUBIC YARDS
CATCH BASIN INLET PROTECTION		EACH
STABILIZED RIPRAP OVERFLOW		EACH
EROSION CONTROL BLANKET		SQUARE YARDS
SEED & MULCH (GEHERAL)		ACRE
ROCK CONSTRUCTION ENTRANCE	T T	EACH

NARRATIVE - TIMING FOR INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES

- IMPRIATIVE TIMING FOR INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES

 1 A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND SWPPP
 MAST BE AVAILABLE ON THE PROJECT SITE AT ALL TIMES

 2 CONTRACTOR SHALL INSTALL SILT FERNE AS SHOWN ON IPLAID

 2.1 ADDITIONAL SILT FERNE ANY SE INCESSARY BY LOCAL CONDITIONS REQUIRE.

 2.2 THE CONTRACTOR SHALL MAINTAIN SILT FERNE AS SHOWN ON IPLAID

 2.3 SILT FERNES SHALL SHALL MAINTAIN SILT FERNE AND SELECTION OF THE REMOVAL OF

 3 CONTRACTOR SHALL INSTALL A ROCK CONSTRUCTION ENTRANCE AT ALL LOCATIONS

 4 CONTRACTOR SHALL INSTALL A ROCK CONSTRUCTION ENTRANCE AT ALL LOCATIONS

 4 CONTRACTOR OF THE PERFORM SILTE GRADING OF HAT AREA-BY-AREA BASIS TO

 MINIMEZ WISTABILIZED AREAS

 5.1. CONTRACTOR SHALL PERFORM SILTE GRADING OF HAT AREA-BY-AREA BASIS TO

 MINIMEZ WISTABILIZED AREAS

 5.2. CONTRACTOR SHALL PREFORM SILTE GRADING OF HAT AND COMPILETE THE

 STABILIZATION WITHIN ZHALD SHALL SHALL

- PHASE II PERMIT REQUIREMENTS
 CONTRACTOR TO PROVIDE ADDITIONAL SILT FENCE, BIOROLLS, EROSION CONTROL
 BUNNET, OR OTHER APPROVED EQUAL FOR ANY SLOPES THAT APPEAR TO BE
- RACTOR TO STABILIZE SOIL STOCKPILES, STABILIZATION SHALL BE INITIATED. HATELY
- RACTOR SHALL FINAL GRADE SWALE AREAS UPON STABILIZATION OF UPSTREAM.
- AREAS

 11 CONTRACTOR SHALL BE RESPONSIBLE TO SWEEP/SCRAPE ADJACENT STREETS WHEN
 MATERIALS OR DEBRIS HAVE WASHED/FLOWED OUTO ADJACENT STREETS OR AS
- 12. COORDINATE SMALL UTILITIES INSTALLATIONS (GAS, PHONE, ELECTRIC, CABLE, FIBEROPTIC, ETC.) AFTER PAVEMENT INSTALLATION.

DESIGNATED AREA-WIDE PLANNING AGENCIES (MINN R 7090)

DESIGNATED AREA MIDE PLANNING ACENCIES (MINI A 7.090)

ZOLSTRUCTION ACTIVATY "MEANLS ACTIVITIES INCLUDING CLEARNING, GRADING, AND EXCAVATING, THAT RESULT IN LAND DISTURBANCE OF EQUAL TO OR GREATER THAN ONE ACCESS THAT OF ACCES THAT OF ACCESS THAT OF ACCESS THAT OF ACCESS THAT OF ACCESS THAT ACTIVITED TO THE CHORD AND INSTRUMENCE FOR THE PURPOSE OF THE PROPOSE OF PROTHER MAINTENANCE PERFORMED TO AMMITTAN THE ROBBING.
LINE AND GRADE, HYDRAULIC CAPACITY, AND ORIGINAL PURPOSE OF THE FACULITY
ROUTIES MAINTENANCE DOES NOT HICLIDE ACTIVITIES SUCH AS REPAIRS, BERLACKHAT
AND OTHER TYPES OF HOTH ROUTINE MAINTENANCE PROFESSION. DOES NOT DISTURB THE UNDERLYING SOILS (E.G., MILL AND OVERLAY PROJECTS) IS NOT CONSTRUCTION ACTIVITY [MINNER 7090]

CONSTRUCTION ACTIVITY PARTIES TO TOUR TOWNSTERRING MEANS THE REMOVAL OF SURFACE OR GROUND WATER TO DRY ANDROR SOLIDEY A CONSTRUCTION SITE TO PHABLE CONSTRUCTION ACTIVITY DEWATERING MAN RECURRE A MILINIESOTA DEPARTIMENT OF NATURAL RESOURCES WATER APPROPRIATION PERMIT AND, IF DEWATERING WATER IS CONTRAINATED, INSCHARGE, OF SUCH WATER MAY REQUIRE AN INDIVIDUAL MPCA NPDES/SDS PERMIT IMILIEU R. 7090

"EROSION PREVENTION" MEANS MEASURES EMPLOYED TO PREVENT EROSION SUCH AS SOIL STABILIZATION PRACTICES, PERMANENT COVER OR CONSTRUCTION PHASING, [MINN]

IR 70890 TO SEER ALL CONTRACTOR MEANS THE PARTY WHO SIGNS THE CONSTRUCTION CONTRACT WITH THE OWNER TO CONSTRUCT THE FITHIRE PROJECT DESCRIBED IN THE FIRAL PLANS AND SPECENCIATIONS WHERE THE CONSTRUCTION FROM ET INVOLVES MORE THAN ONE CONTRACTOR. THE GENERAL CONTRACTOR IS THE PARTY RESPONSIBLE FOR MANAGING THE ENTIRE PROJECT ON THE WAY OF THE CONTRACTOR STATE PARTY RESPONSIBLE FOR MANAGING THE ENTIRE PROJECT ON THE WAY OF THE CONTRACTOR STATE PARTY RESPONSIBLE FOR MANAGING AND STATE OF THE PARTY AND STATE OF THE STATE OF

TO ROUGHWAY MEAST THE SOLE FEATH HE (MINTH K 1994)

TO ROUGHWAY MEAST HE WANTER COLITAINED BELOW THE SUPPLIED OF THE EARTHIN THE SATURATED ZOHE INCLUDING, WITHOUT LIMITATION, ALL WASTERS WHETHER UNDER COMPINED, ON PERCHED COLORITORS, WI HEAR SWEAR ACE VINCOLIDATED SEDIMENT OR REGOL (TH, OR IN ROCK FORMATIONS DEEPER UNDERGROUND [MINN-R].

THOMEOWHER FACT SHEET MEALS AN MPCA FACT SHEET AVAILABLE ON THE MPCA CONSTRUCTION STORMWATER WEBSITE FOR PERMITTEES TO GIVE TO HOMEOWHERS AT THE TIME OF SALE (MINH. R 7090)

TORGI

TINITATED BIMBEDIATELY MEAUS TAKING AN ACTION TO COMMENCE SOIL STABILIZATION
AS SOON AS PRACTICABLE BUT IN LITER THAN THE RID OF THE WORK DAY, FOLLOWING
HEE DAY WHIELTHEL LAND INSTRUBING ACTIVITIES TEMPORARY OR PERMALENT
CEASE, IF THE PERMITTEES KNOW THAT CONSTRUCTION WORK ON THAT PORTION OF THE
SITE WILL BE TEMPORARY LY CEASE OFT A GOR MORE ADDITIONAL CALENDAR DAYS ORT

- A PREPPING THE SOIL FOR VEGETATIVE OR HOH-VEGETATIVE STABILIZATION, OR
- B. APPLYING MULCH OR OTHER NON-VEGETATIVE PRODUCT TO THE EXPOSED SOIL AREA; OR
- C. SEEDING OR PLANTING THE EXPOSED AREA. OR
- L. SECURIO UN FLANTING THE EXPOSED AREA OR

 D. STARTING AIM OF THE ACTIVITIES IN A C OI A PORTION OF THE AREA TO BE

 STABILIZED, BUT NOT ON THE EITIRE AREA; OR

 E. FIHALIZING ARRANGEMENTS TO HAVE STABILIZATION PRODUCT FULLY INSTALLED IN
 COMPLIANCE WITH THE APPLICABLE DEADLINE FOR COMPLETING STABILIZATION
 [MIMIL R. 7000]

[MINN R 7000]

**MPERIVOUS SURFACE* MEANS A CONSTRUCTED HARD SURFACE THAT EITHER PREVEITS
OR RETARDS THE ENTRY OF WATER HITO THE SOIL APID CAUSES WATER TO RUIL OFF THE
SURFACE HIS GREATER OLARITIES AND AT A HURSHASED RATE OF FLOW THAN PRIOR TO
DEVELOPMENT. EXAMPLES HICLIUDE ROOF TOPS. SIDEWALKS, DRIVEWAYS, PARKING LOTS,
AND CONCRETE, ASPHALT, OR GRAVEL RANDE HEXIGIES OVER SURFACE WATERS ARE
CONSIDERED IMPERVIOUS SURFACES BINNET R 7000!

"NATIONAL POLUMENT DISCHARGE ELIMINATION SYSTEM (IPDES)" MEANS THE PROGRAM FOR ISSURIG, MODIFYING, REVOKING, REISSUNIG, TERMINATING, MOINTORING, AND EMPROPRING PERMITS BURDET RECLEAN WATER ACT, AS AMENDED (33 U.S.C. 1251 ET SED SECTION 1342 AND 40 CFR PARTS 122, 123, 124 AND 450) [MIRH. R. 7090]

HATURAL BUFFER MEAHS ANAREA OF UNDISTURBED COVER SURROUNDING SURFACE WATERS WITHIN WHICH CONSTRUCTION ACTIVITIES ARE RESTRICTED NATURAL BUFFER HICLUDES THE VEGETATION, EXPOSED ROCK, OR BARREH (RODUID) THAT EXISTS PRIOR TO COMMENCEMENT OF EARTH-DISTURBING ACTIVITIES, MINH R 7090]

THOTICE OF TERMINATION (NOT)" MEANS THE FORM (ELECTRONIC OR PAPER) REQUIRED FOR TERMINATING COVERAGE UNDER THE CONSTRUCTION GENERAL PERMIT (MINN R

"OPERATOR" MEA IS THE PERSON (USUALLY THE GENERAL CONTRACTOR), FRM, GOVERNMENTAL AGENCY OR OTHER ENTITY DESIGNATED BY THE OWNER WHO HAS DAY TO DAY OPERATIONAL CONTROL AND/OR THE ABILITY TO MODIFY PROJECT PLAYS AND SPECIFICATIONS RELATED TO THE SWPPP THE PERMIT APPLICATION MUST LIST THE OPERATOR AS PERMITTES. SUBCONTRACTORS HIRED BY AND UNDER SUPERVISION OF THE GENERAL CONTRACTOR ARE NOT OPERATORS [MINN R 7090]

"OWIER MEANS THE PERSON, FRIM, GOVERNMENTAL AGENCY, OR OTHER ENTITY POSSESSING THE TITLE OF THE LAND ON WHICH THE CONSTRUCTION ACTIVITIES WILL OCCUR OR IF THE CONSTRUCTION ACTIVITY IS FOR A LEASE EASHEATT, OR MITERAL RIGHTS LICELISE HOLDER, THE PARTY OR HIDWIDUAL IDENTIFIED AS THE LEASE. EASEMENT OR MINERAL RIGHTS LICENSE HOLDER, OR THE CONTRACTING AGENCY RESPONSIBLE FOR THE CONSTRUCTION ACTIVITY, [MINIA: R. 7000]

PERMADELLI COVER MEANS SUBFACE TYPES THAT WILL PREVENT SOIL FAILURE UNDER "PERMAIEHT COVER MEANS SUBFACE TYPES THAT MILL PREVENT SOIL FAILURE UNDER FROSIEVE CONDITIONS EXAMINES INCLUDE GRAVILE, CONTORESTE, PEREIHIAU COVER, OR OTHER LANDSCAPED MATERIAL THAT WILL PERMAIEHTLY ARREST SOIL EROSSION FERMITTES MUST ESTABLESH A UNBFORM PEREINAL VICETATIVE COVER (BE. EVEILLY DISTRIBUTED, WITHOUT LANGE BARE AREAS) WITH A DEISHTY OF 70 PERCENT OF THE ATMINE BACKGORUID VICETATIVE COVER ON ALL AREAS HOT COVERED BY PERMAIEHT STRUCTURES, OR EQUIVALENT PERMAINENT STRUCTURES, OR EQUIVALENT PERMAINENT STRUCTURES, OR EQUIVALENT PERMAINENT STRUCTURES, OR EDUIVALENT STRUCTURES, OR EDUIVALENT PERMAINENT AND STRUCTURES. PERMAINENT AND STRUCTURES PERMAINENT AND STRUCTURES PERMAINENT AND STRUCTURES. PERMAINENT STRUCTURES, OR EDUIVALENT PERMAINENT STRUCTURES, OR EDUIVALENT PERMAINENT STRUCTURES, OR EDUIVALENT PERMAINENT STRUCTURES. PERMAINENT AND STRUCTURES. PERMAINENT STRUCTURES, OR EDUIVALENT PERMAINENT STRUCTURES. PERMAINENT STRUCTURES, OR EDUIVALENT PERMAINENT STRUCTURES. PERMAINENT STRUCTURES, OR EDUITATION PERMAINENT STRUCTURES. PERMAINENT STRUCTURES, OR EDUITATION PERMAINENT STRUCTURES. PERMAINENT STRUCTURES, OR EDUITATION PERMAINENT STRUCTURES. PERMAINENT STRUCTURE

PROJECTION (MINISTRUCTION ACTIVITY PLANNED AIDDOR CONDUCTED UNDER A PARTICULAR PERMIT THE PROJECT OCCURS ON THE SITE OR SITES DESCRIBED IN THE PERMIT APPLICATION, THE SWAPP AND WITHE ASSOCIATED PLANS, SPECIFICATIONS AND CONTRACT DOCUMENTS (MINISTRUCTION).

"SEDIMENT CONTROL" MEANS METHODS EMPLOYED TO PREVENT SUSPENDED SEDIMENT HISTORMWATER FROM LEAVING THE SITE (E.G. SILT FENCES, COMPOST LOGS AND STORM DRAIN HILET PROTECTION), IMMEN. 7, 8090.

WATERS OF THE STATE "AS DEFINED IN MINN, STAT, SECT 115.01, SUSP 22) MEANS ALL STREAMS, LANES, PÜNES, MASSHES, MATERCOURSES, MATERWAYS, WELLS, SPRINGS, RESERVOIRS, AUDIFERS, HIRORATION SYSTEMS, DRIALIAGE SYSTEMS AND ALL OTHER BOOLES OR MCLAMILATIONS OF WATER, SURFACE OR UNDERGROUND, NATURAL OR RATRICIAL, PUBLIC OR PRIVATE, WHICH ARE COLITABLED WITHIN, FLOW THROUGH, OR BORDER UPON THE STATE OR ANY PORTION THEREOF, [MINN STAT, 115.01, SUBP 22]

- A PREDOMINANCE OF HYDRIC SOILS; AND

EERING, II

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AG AG 23-21: CHECK MQA

"PERMITTEES" MEANS THE PERSONS, FIRM, GOVERNMENTAL AGENCY, OR OTHER ENTITY
IDENTIFIED AS THE DWINER AND OPERATOR ON THE APPLICATION SUBMITTED TO THE MPCA AND ARE RESPONSIBLE FOR COMPLIANCE WITH THE TERMS AND CONDITIONS OF THIS PERMIT (MINN, IT 7090)

PUBLIC WATERS MEANS ALL WATER BASINS AND WATERCOURSES DESCRIBED IN MINN STAT. SECT. 103G-005 SUBP. 15. [MRIN. R. 7090]

JAMAN MILET PROTECTION, IMMIN. R. 7009;
"STABILIZE": "STABILIZE": "STABILIZE": STABILIZE": STABILIZE": STABILIZE": STABILIZED STABILIZATION MEANS THE EXPOSED GROUND SURFACE HAS BEET COVERED BY APPROPRIATE MATERIAL SAUCH AS MULCH STAKED SOD, RIPRAP, EROSIGHOL COMPTON, LEALMER, HATS OR OTHER MATERIAL THAT PREVENTIES ELOSIGH FROM COCURRING GRASS SEEDHIG, ACRICAL TURAL CROP SEEDHIG OR OTHER SEEDHIG ALONE IS NOT STABILIZATIONI MULCHAMPERRAN SMUST ACHIEVE APPROXIMATELY 90 PERCELIT GROUND COVERAGE (TYPICALLY 2 TORACRE) [MINH R. 7009]

"STORMWATER" MEAHS PRECIPITATION RUHOFF, STORMWATER RUHOFF, SNOWMELT RUNOFF, AND ANY OTHER SURFACE RUNOFF AND DRAINAGE. [MILIN R. 7090] "STEEP SLOPES" MEANS SLOPES THAT ARE 1.3 (V:H) (33.3 PERCENT) OR STEEPER III GRADE [MINN, R. 7090]

STORM WATER POLLUTION PREVENTION PLAY (SWPPP)* MEANS A PLAY FOR STORMWATER DISCHARGE THAT INCLUDES ALL REQUIRED CONTENT UNDER IN SECTION 5 THAT DESCRIBES THE ROSSION PREVENTION, SEDIMENT CONTENT AND WASTE CONTROL BMPS AND PERMANENT STORMWATER TREATMENT SYSTEMS, [MINN R. 7090]

BMP'S AVIOTEMANIERI SIDKMINATERI INCAINERI ISTSI LEIS, BIJIRIN R. A. (2004)
"SURFACE WATER OR WATERS" MEALIS ALL STEEMAS, LAKES, PORIDS, MARSHES,
WETLANDS, RESERVOIRS, SPRINGS, RIVERS, DRAINAGE SYSTEMS, WATERVIAVS,
WATERCOURSES AND RIRIGATION SYSTEMS WHETHER NATURAL OR ARTHROUGH, PUBLIC
OR PRIVATE, EXCEPT THAT SURFACE WATERS DO INDITICIOLISE STROMAYER
THE ATMENT SYSTEMS COAS FROME THE TO HE WETLANDS AND MITCAILED HY
ACCORDANCE WITH HEET DAY 2 AS SURFACE WATERS [MINIT R 700]

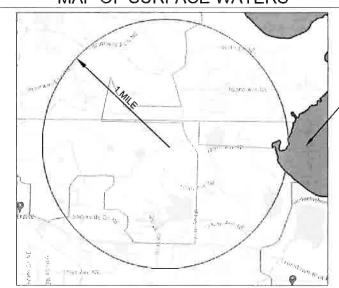
"WATER QUALITY VOLUME" MEANS ONE (1) INCH OF RUINOFF FROM THE NET INCREASE IN IMPERVIOUS SURFACES CREATED BY THE PROJECT (CALCULATED AS AN INSTANTANEOUS VOLUME), IMPIN R. 7090]

VOLUME, (MPM R. 7/80)

"WE LLAIDS, CAS DEFINED IN MINN. R. 7/55/01/88, SUBP. 1A B.) MEANS THOSE AREAS THAT ARE HUMBATED OR SATURATED BY SUBPACE WATER OR GROUMWATER AT A PERCULENCY AND DURATION SUPPICIENT TO SUPPORT, AND INDEPROSAL PROFICE THE TO SUPPORT, AND INDEPROSAL PROFILE OF VEGETATION TYPICALLY ADAPTED FOR LIFE IN SATURATED SOIL COIDING HOS WELL AND SERIES ALLY MAIL TO SATURATIONS WELL AND SERIES ALLY MICH. SERVICE WAS AND SERVER AND SERVER OF THE STATE WETLANDS MUST HAVE THE FOLLOWING ATTRIBUTES.

- 2. III.BIIDATED OR SATURATED BY SURFACE WATER OR GROUNDWATER AT A FREQUEICY AND DURATION SUFFICIENT TO SUPPORT A PREVALENCE OF HYDROPHYTIC VEGETATION TYPICALLY ADAPTED FOR LIFE IN A SATURATED SOIL CONDITION, AND
- 3 UNDER NORMAL CIRCUMSTANCES SUPPORT A PREVALENCE OF SUCH VEGETATION (MINN. R. 7050 0186, SUBP. 1A.B)

MAP OF SURFACE WATERS



APPROVED TMDL PLAUFOR MERCURY IN FISH TISSUE

WEDISH S

or under licensed the State

ESTATI

CHAPEL HAM LAKE, MN

SWPPP

SHEET

4.2 PERMITTEES MUST SUBMIT A NOT WITHIN 30 DAYS AFTER ALL TERMINATION CONDITIONS LISTED IN SECTION 13 ARE COMPLETE. [MINN. R. 7090]

A.3 PERMITTES MUST SUBMIT A NOT WITHIN 30 DAYS AFTER SELLING OR OTHERWISE LEGALLY TRANSFERRING THE ENTIRE SITE, INCLUDING PERMIT RESPONSIBILITY FOR ROADS (E.G., STREET SWEEPING) AND STORMWATER INFRASTRUCTURE TINAL CLEAN OUT, OR TRANSFERRING PORTIONS OF A SITE TO ANOTHER PARTY. THE PERMITTEES' COVERAGE UNDER THIS PERMIT TERMINATES AT MIDNIGHT ON THE SUBMISSION DATE OF THE NOT. [MINN. R. 7090]

4.4 PERMITTEES MAY TERMINATE PERMIT COVERAGE PRIOR TO COMPLETION OF ALL CONSTRUCTION ACTIVITY IF THEY MEET

- A CONSTRUCTION ACTIVITY HAS CEASED FOR AT LEAST ON DAYS: AND
- AT LEAST 90 PERCENT (BY AREA) OF ALL ORIGINALLY PROPOSED CONSTRUCTION ACTIVITY HAS BEEN COMPLETED AND PERMANENT COVER HAS BEEN ESTABLISHED ON THOSE AREAS, AND
- C. ON AREAS WHERE CONSTRUCTION ACTIVITY IS NOT COMPLETE, PERMANENT COVER HAS BEEN ESTABLISHED; AND D. THE SITE COMPLIES WITH ITEM 13.3 THROUGH 13.7.

AFTER PERMIT COVERAGE IS TERMINATED UNDER THIS TITEM, ANY SUBSEQUENT DEVELOPMENT ON THE REMAINING PORTIONS OF THE SITE WILL REQUIRE FERMIT COVERAGE IF THE SUBSEQUENT DEVELOPMENT ITSELF OR AS PART OF THE REMAINING COMMON PLAY OF DEVELOPMENT OR SALE WILL RESULT IN LAND DISTURBING ACTIVITIES OF ONE (1) OR MORE ACRES IN SIZE. [MINN R, 7890]

4.5 PERMITTEES MAY TERMINATE COVERAGE UPON MPCA APPROVAL AFTER SUBMITTING INFORMATION DOCUMENTING THE OWNER CANCELED THE PROJECT, IMIN. 8, 70901

6.1 SWPPP AMENDMENTS, [MINN, R. 7090]

6.2 One Of THE INDIVIDUALS DESCRIBED IN 11EM 21.2.A OR ITEM 21.2.B OR ANOTHER QUALIFIED INDIVIDUAL MUST COMPLETE ALL SWPPP CHANGES, CHANGES HER USE OF A LESS STRIKESTH BMP MOST INCLUDE A USERVINE OF A LESS STRIKESTH BMP MOST INCLUDE A USERVINE OF A LESS STRIKESTH BMP MOST INCLUDE A USERVINE OF A LESS STRIKESTH BMP MOST INCLUDE A USERVINE AND A LESS STRIKESTH BMP MOST INCLUDED A USERVINE AND A LESS STRIKESTH BMP MOST INCLUDED A USERVINE AND A LESS STRIKESTH BMP MOST INCLUDED A USERVINE AND A LESS STRIKESTH AND A LESS STRIKESTH BMP MOST INCLUDED A USERVINE AND A LESS STRIKESTH AND A LESS STRIKESTH. 6.3 PERMITTEES MUST AMEND THE SWPPPTO INCLIDE ADDITIONAL OR MODIFIED BMPS AS INCESSARY TO CORRECT PROBLEMS IDENTIFIED OR ADDRESS SITUATIONS WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, MAINTENANCE, WEATHER OR SEASONAL CONDITIONS HAVING A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS OR GROUNDWATER, (MINN. N. 7090)

TO SURFALE WATERS OR GROUNDWATER, [MINN. 16, 7090]
6.4 PERMITTEE MUST AMEND THE SWPPP TO INCLUDE ADDITIONAL OR MODIFIED BMPS AS NECESSARY TO CORRECT
PROBLEMS IDENTIFIED OR ADDRESS SITUATIONS WHENEVER INSPECTIONS OR INVESTIGATIONS BY THE SITE OWNER OR
OPERATOR, USEPA OR MPCA OFFICIALS INDICATE THE SWPPP IS NOT EFFECTIVE IN ELIMINATING OR SIGNIFICANTLY
HIRIMIZING THE DISCHARGE OF POLUTIANTS TO SURFACE WATERS OR GROUNDWATER OR THE DISCHARGES ARE CAUSING

7.1 BMP SELECTION AND INSTALLATION. [MINN. R. 7090]

7.2 PERMITTEES MUST SELECT, INSTALL, AND MAINTAIN THE BMPS IDENTIFIED IN THE SWPPP AND IN THIS PERMIT IN AN APPROPRIATE AND FUNCTIONAL MANNER AND IN ACCORDANCE WITH RELEVANT MANUFACTURER SPECIFICATIONS AND ACCEPTED ENGINEERING PRACTICES. [MIM. R. 7990]

8.1 EROSION PREVENTION PRACTICES, [MINN, R. 7090]

TEES MUST DELINEATE THE LOCATION OF AREAS NOT TO BE DISTURBED. IMINN. R.

A 3 PERMITTEES MUST MINIMIZE THE NEED FOR DISTURBANCE OF PORTIONS OF THE PROJECT WITH STEEP SLOPES, WHEN STEEP SLOPES MUST BE DISTURBED, PERMITTEES MUST USE TECHNIQUES SUCH AS PHASING AND STABILIZATION PRACTICES DESIGNED FOR STEEP SLOPES (E.G. SUSTE DUSTED AND EATHER AND JETTICH STEEP SLOPES). NO. 7090]

PARALITIES DESIGNED FOR STEEP SLOPES (E.G., SLOPE DRAINING AND TERRALING), [PINN. R. 7090]

8.4 PERMITTER MUST STABLIZE ALL EXPOSED SOIL AREAS, INCLUDING STOCKPILES, STABLIZATION MUST BE INITIALE IMMEDIATELY TO LIMIT SOIL EROSION WHEN CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORABLY CEASED ON COMPUTED NO LATTE THAN 2.4 MOURS AFTER THE CONSTRUCTION ACTIVITY HAS EASED. STABLIZATION, SINGUIST IN COMPUTED NO LATTE THAN 2.4 MOURS AFTER THE CONSTRUCTION ACTIVITY HAS EASED. STABLIZATION SINGUIST OF THE CONSTRUCTION ACTIVITY HAS EASED. STABLIZATION SINGUIST OF THE CONSTRUCTION ACTIVITY AND STABLIZATION SINGUIST OF THE CONSTRUCTION ACTIVITY AND STABLIZATION SINGUIST OF THE CONSTRUCTION OF THE CONSTRUCTION STABLIZATION SINGUIST OF THE CONSTRUCTION OF THE CONSTRUC

8.5 FOR PUBLIC WAITERS THAT THE MINNESOTIA DNR HAS PROMULGATED "WORK IN WATER RESTRICTIONS" DURING SPECIFIED FISH SPAWNING TIME FRAMES, PERMITTEES MUST COMPLETE STABILIZATION OF ALL EXPOSED SOIL AREAS WITHIN 202 FEET OF THE WATERS & BODE, AND THAT DRAIN TO THESE WATERS, WITHIN 24 HOURS DURING THE RESTRICTION PERIOD. [MINN: R. 7090]

8.6 PERMITTEËS MUST STABILIZE THE NORMAL WETTED PERIMETER OF THE LAST 200 LINEAR FEET OF TEMPORARY OR PERNAMENT DIAJNAGE DITCHES OR SWALES THAT DRAIN WATER FROM THE SITE WITHIN 24 HOURS AFTER CONNECTING A SURFACE WATER OR PROPERTY EGGE FERMITTEES MUST COMPLETE STABLIZATION OR REAMAINED PORTIONS OF TEMPORARY OR PERNAMENT DITCHES OR SWALES WITHIN 14 CALENDAR DAYS AFTER CONNECTING TO A SYRFACE WATER OR PROPERTY EDGE AND CONSTRUCTION IN THAT PORTION OF THE DITCH TEMPORABLY OR PERMANENTLY CEASES. IMININ

8 7 TEMPORARY OR PERMANENT DITCHES OR SWALES BEING USED AS A SEDIMENT CONTAINMENT SYSTEM DURIN CONSTRUCTION (WITH PROPERLY DESIGNED ROCK-DITCH CHECKS, BIO ROLLS, SILT DIKES, ETC.) DO NOT NEED TO BE STALLZED, PERMITTEES MUST STABILIZE THESE AREAS WITHIN 24 HOURS AFTER THEIR USE AS A SEDIMENT CONTAINMENT SYSTEM CEASES. (MINN. R. 7990)

CUNTAINMENT STRIFT CLASSE, SIMIN, K., 7049]
S.B. PERMITTEES MUST NOT USE SEMULCH, HYDEGEMIACH, TACKIFIER, POLYACRYLAMIDE OR SIMILAR EROSION PREVENTION
PRACTICES WITHIN ANY PORTION OF THE NORMAL WETTED PERIMETER OF A TEMPORARY OR PERMANENT DRAINAGE DITCOR SWALE SENTION MYTH FOR TOOM THOUSE SUCHE OF GREATER THAN 2 PERCENT, [MIMN. R. 7090].

8.9 PERMITTEES MUST PROVIDE TEMPORARY OR PERMANENT ENERGY DISSIPATION AT ALL PIPE OUTLETS WITHIN 24 HOURS AFTER CONNECTION TO A SURFACE WATER OR PERMANENT STORMWATER TREATMENT SYSTEM. [MINN. R. 7090] 8.10 PERMITTEES MUST NOT DISTURB MORE LAND (I.E., PHASING) THAN CAN BE EFFECTIVELY INSPECTED AND MAINTAINED IN ACCORDANCE WITH SECTION 11. [MINN. R. 7090]

9.1 SEDIMENT CONTROL PRACTICES. [MINN. R. 7090]

9.2 PERMITTEES MUST ESTRALISH SEDIMENT CONTROL BMPS ON ALL DOWNGRADIENT PERIMETERS OF THE SITE AND DOWNGRADIENT AREAS OF THE SITE THAT DRAIN TO ANY SURFACE WATER, INCLUDING CURB AND GUTTER SYSTEMS, PERMITTEES MUST LOCATE SEDIMENT CONTROL PRACTICES UPGRADIENT OF MED BUFFER ZORDS. PERMITTEES MUST INSTALL SEDIMENT CONTROL PRACTICES BEFORE ANY DIGRADIENT LAND-DISTURBING ACTIVITIES BEGIN AND MUST KEEP THE SEDIMENT CONTROL PRACTICES IN PLACE UNTIL THEY ESTABLISH PERMANNET COVER, (MINN. R. 7989)

9.3 IF DOWNGRADIENT SEDIMENT CONTROLS ARE OVERLOADED, BASED ON FREQUENT FAILURE OR EXCESSIVE MAINTENANCE REQUIENTENENT, PERMITTERS MUST INSTALL ADDITIONAL UPGRADIENT SEDIMENT CONTROL PAR REDUIGANT BMPS TO ELIMINATE THE OVERLOADING AND AMEND THE SWPPP TO IDENTIFY THESE ADDITIONAL RAS REQUIRED IN TIEM 5.3, IMMIN. R. 7090]

As ACQUINCUM IN URB-ALIMINE. A LIGHT MEANING EDITCHES AND SEDIMENT BASINS DESIGNED AS PART OF A SEDIMENT CONTAINMENT SYSTEM (G.G., DITCHES WITH ROCK-CHOMS) REQUIRE SEDIMENT CONTROL PRACTICES ONLY AS APPRICINATE FOR SITE (G.G.) DITCHES (MINN. 2, 7090)

APPROPRIATE CLUSTITIONS, INTERNAL AND APPROPRIATE CONTROL BMP TO SATISFY ITEM 9.2 EXCEPT WHEN WORKING ON A SHORELINE OR BELOW THE WATER IS NOT A SEDIMENT CONTROL BMP TO SATISFY ITEM 9.2 EXCEPT WHEN WORKING ON A SHORELINE OR BELOW THE WATERLINE. IMMEDIATELY AFTER THE SHORT TERM CONSTRUCTION ACTIVITY (E.g., INSTALLATION OF RIP RAP ALONG THE SHORELINE) IN THAT AREA IS COMPLETE, PERMITTEES AN UPLAND PERIMETER CONTROL PRACTICE IF EXPOSED SOILS STILL DRAIN TO A SURFACE WATER. [MINN. R. 7090]

9.6 PERMITTEES MUST RE-INSTALL ALL SEDIMENT CONTROL PRACTICES ADJUSTED OR REMOVED TO ACCOMMODATE SHORT-TERM ACTIVITIES SUCH AS CLEARING OR GRUBBING, OR PASSAGE OF VEHICLES, IMMEDIATELY AFTER THE SHORT-TERM ACTIVITY IS COMPLETED. PERMITTEES MUST RE-INSTALL SEDIMENT CONTROL PRACTICES BEFORE THE NEXT PRECIPITATION EVENT EVEN IF THE SHORT-TERM ACTIVITY IS NOT COMPLETE. [MINN. R. 7090] 9.7 PERMITTEES MUST PROTECT ALL STORM DRAIN INLETS USING APPROPRIATE BMPS DURING CONSTRUCTION UNTIL THEY ESTABLISH PERMANENT COVER ON ALL AREAS WITH POTENTIAL FOR DISCHARGING TO THE INLET. [MINN. R. 7090]

9.8 PERMITTEES MAY REMOVE INLET PROTECTION FOR A PARTICULAR INLET IF A SPECIFIC SAFETY CONCERN (E.G. STREET FLOODING/PREZING) IS DENTIFIED BY THE PERMITTEES OR THE JURISDICTIONAL AUTHORITY (E.G., CITY/COUNTY/TOWNSHIP/MINNESOTA DEPARTMENT OF TRANSPORTATION ENGINEER). PERMITTEES MUST DOCUMENT THE NEED FOR REMOVAL IN THE SWYPP. [MINN. R. 7090]

9.9 PERMITTEES MUST PROVIDE SILT FENCE OR OTHER EFFECTIVE SEDIMENT CONTROLS AT THE BASE OF STOCKPILES ON THE DOWNGRADIENT PERIMETER. (MINN. N. 7090)

9. 10 PERMITTEES MUST LOCATE STOCKPILES OUTSIDE OF NATURAL BUFFERS OR SURFACE WATERS, INCLUDING STORMWATER CONVEYANCES SUCH AS CURB AND GUTTER SYSTEMS UNLESS THERE IS A BYPASS IN PLACE FOR THE

9.11 PERMITTEES MUST INSTALL A VEHICLE TRACKING BMP TO MINIMIZE THE TRACK OUT OF SEDIMENT FROM THE CONSTRUCTION SITE OR ONTO PAVED ROADS WITHIN THE SITE. [MINN. R. 7090]

9.12 PERMITTEES MUST USE STREET SWEEPING IF VEHICLE TRACKING BMPS ARE NOT ADEQUATE TO PREVENT SEDIMENT TRACKING ONTO THE STREET. [MINN, R, 7090] 9.13 PERMITTEES MUST INSTALL TEMPORARY SEDIMENT BASINS AS REQUIRED IN SECTION 14. [MINN. R. 7090]

9.14 IN ANY AREAS OF THE SITE WHERE FINAL VEGETATIVE STABILIZATION WILL OCCUR, PERMITTEES MUST RESTRICT VEHICLE AND EQUIPMENT USE TO MINIMIZE SOIL COMPACTION. [MINN. R. 7090]

9.15 PERMITTEES MUST PRESERVE TOPSOIL ON THE SITE, UNLESS INFEASIBLE. [MINN. R. 7090] 9.16 PERMITTEES MUST DIRECT DISCHARGES FROM BMPS TO VEGETATED AREAS UNLESS INFEASIBLE. [MINN. R. 7090]

9.19 FERMITTES MUST DIRECT DISCHARGES FROM DIMPS TO VEGETATED AREAS UNLESS INFEASIBLE, (MINN. R. 7990)
3.79 FERMITTES MUST DRESERVE A 50 POOT ANTURAL BUFFER, R.). FE ABUFFER IS INFEASIBLE, (MINN. R. 7990)
REDUKDANT (DOUBLE) PERIMETER SEDIMENT CONTROLS WHEN A SURFACE WATER, IS LOCATED WITHIN 50 FEET OF THE
PROJECTS EARTH DISTURBANCES AND STORMWATER FLOWS TO THE SURFACE WATER, PERIMITES MUST INSTEAD
FERRIFTER SEDIMENT CONTROLS AT LEAST 5 FEET PART UNLESS LIMITED BY LACK OF AVAILABLE SPACE, NATURAL
BUFFERS ARE NOT REQUIRED ADJACENT TO RADAD DITCHES, JUDICIAL DITCHES, COUNTY DITCHES, STORMWATER,
CONVEYANCE CHANNELS, STORM DRAIN INLETS, AND SECIMENT BASINS. IF PRESERVING THE BUFFER IS IN TEASIBLE,
PERMITTEES MUST USE TO THE REASONS IN THE SEMPLE, SHEET PILING IS A REQUIREDAT PERMIETER CONTROL IF
INSTALLED IN A MANNER THAT RETAINS ALL STORMWATER, (MINN. R. 7990)
9.18 FERMITTEES MUST USE POLYMERS, FLOCULANTS, OR OTHER SEDIMENTATION TREATMENT CHEMICALS IN
ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICES, DOSING SPECIFICATIONS AND SEDIMENT REMOVAL DESIGN
AND SEDIMENT CONTROL SPROVED BY THE MAINDEACTURE OR SUPPLIES. THE PREMITTER SHUST USE CONVENTIONAL EROSION
AND SEDIMENT CONTROL SPROVED OF CHEMICAL ADDITION AND MUST DIRECT TREATED STORMWATER TO A SEDIMENT
CONTROL SYSTEM FOR FILITATION OR SETLEMENT OF THE FLOC PRIOR TO DISCLARAGE, (MINN. R. 7981)

10.1 DEWATERING AND BASIN DRAINING, [MINN, R. 7090]

10.1 DEWATERING AND DASH) DRAINING. J.MINN. R. 7090]

10.2 PERMITTES MUST DISCHARGE TURBID OR SEDIMENT-LADEN WATERS RELATED TO DEWATERING OR BASIN DRAINING (E.G., PUMPED DISCHARGES, TRENCH/DITCH CUTS FOR DRAINING (T.G.) TEMPORARY OR PERMANENT SEDIMENT BASIN ON THE PROJECT SITE UNLESS INFERSIBLE. PERMITTEES MAY DEWATER TO SUBFACE WATERS IF THEY VISUALLY CHECK TO RESURE ADEQUATE TREATMENT HAS BEEN OBTAINED AND NUISANCE COINDITIONS (SEE MINN. R. 7050.0210, SUBP. 2) WILL NOT RESULT FROM THE DISCHARGE. IF PERMITTEES CANNOT DISCHARGE THE WATER TO A SEDIMENTATION BASIN PRIOR TO ENTERING A SURFACE WATER, FERMITTEES CANNOT DISCHARGE THE WATER TO A SEDIMENTATION BASIN PRIOR TO ENTERING A SURFACE WATER. IF THAT THE PROPERTIES CANNOT DISPARCEMENT OF THE OWNER OF THAT THAT THE DISCHARGE THE WATER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OWNER.

0.3 IF PERMITTEES MUST DISCHARGE WATER CONTAINING OIL OR GREASE, THEY MUST USE AN OIL-WATER SEPARATOR OR SUITABLE FILTRATION DEVICE (E.G., CARTRIDGE FILTERS, ABSORBENTS PADS) PRIOR TO DISCHARGE. [MINN. R. 7090] 10.4 FERNITTEES MUST DISCHARGE ALL WATER FROM DEWATERING OR BASIN-DRAINING ACTIVITIES IN A MANNER THAT DOES NOT CAUSE EROSION OR SCOUR IN THE IMMEDIATE VICINITY OF DISCHARGE POINTS OR INUNDATION OF WETLANDS IN THE IMMEDIATE VICINITY OF DISCHARGE POINTS OTHER WETLAND, IN THE IMMEDIATE VICINITY OF DISCHARGE POINTS THAT CAUSES SIGNIFICANT ADVERSE IMPACT TO THE WETLAND, IMIN R. 70901

10.5 IF PERMITTEES USE FILTERS WITH BACKWASH WATER, THEY MUST HAUL THE BACKWASH WATER AWAY FOR OI RETURN THE CACKWASH WATER TO THE BEGINNING OF THE TREATMENT PROCESS, OR INCORPORATE THE BACKWA: WATER INTO THE STEE IN A MANRET THAT DOES NOT CAUSE REGISION, IMINN. R. 7090]

11.1 INSPECTIONS AND MAINTENANCE. [MINN. R. 7090]

11.1 INSPECTIONS AND DAINTENANCE, HIMNN. R. 7090)
11.2 PRIMITTEES MUST ENSURE A TRAINED PERSON, AS IDENTIFIED IN 11EM 21.2.8, WILL INSPECT THE ENTIRE CONSTRUCTION SITE AT LEAST ONCE EVERY SEVEN (?) DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER ARAINFALL EVERT (SEATER THAN 12/ SHOFT) IN 24 HOURS AFTER ARAINFALL EVERT (SEATER THAN 12/ SHOFT). HIMN 2. A 7090.

1.3 PERMITTEES MUST INSPECT AND MAINTAIN ALL PERMANENT STORMWATER TREATMENT BMPS. [MINN. R. 7090] 11.4 PERMITTEES MUST INSPECT ALL ERGISION PREVENTION AND SEDIMENT CONTROL BMPS AND POLITION PREVENTION MANAGEMENT MEASURES TO ENSURE INTEGRITY AND EFFECTIVENESS. PERMITTEES MUST REPAIR, REPLACE ON SUPPREMENT ALL HONFONCTIONAL DMPS WITH FUNCTIONAL BMPS BY THE END OF THE REXT BUSINESS DAY AFFER DISCOVERY ONLESS AND THE REXT BUSINESS DAY AFFER DISCOVERY ONLESS AND THE REXT BUSINESS DAY AFFER DISCOVERY ONLESS AND THE AFFER IS SPECIFICED IN THEM 11.5 OR 11.6, PERMITTEES MAY TAKE ADDITIONAL TIME I FIELD CONDITIONS PREVENT ACCESS TO THE AREA, JIMIN. R. 7990]

IT FIELD CONDITIONS PREVENT ACCESS TO THE AREA. [MINN. R. 7090]

11.5 DURING EACH INSPECTION, PERMITTEES MUST INSPECT SURFACE WATERS, INCLUDING DRAINAGE DITCHES AND CONVEYANCE SYSTEMS BUT NOT CURB AND GUTTER SYSTEMS, FOR EVIDENCE OF EROSION AND SEDIMENT DEPOSITION. PERMITTEES MUST REMOVE ALL DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS, INCLUDING DRAINAGE WAYS, CACICI MASINS, AND OTHER BRAINAGE SYSTEMS AND RESIDENT BOTH AND RESIDENT DEPOSITED IN SURFACE WATERS, INCLUDING DRAINAGE WAYS, CACICI MASINS, AND OTHER BRAINAGE SYSTEMS AND RESIDENT AND RESIDENT REMOVAL RESULTS IN EXCOVERY WERE SEDIMENT REMOVAL RANGE SUSTEIN FOR SECURIOR OF SECURIOR OF

1.6 PERMITTEES MUST INSPECT CONSTRUCTION SITE VEHICLE EXIT LOCATIONS, STREETS AND CURB AND GUTTER SYSTEMS WITHIN AND ADJACENT TO THE PROJECT FOR SEDIMENTATION FROM ERGISION OR TRACKED SEDIMENT FROM VEHICLES PREMITTEES MUST REMOVE SEDIMENT FROM ALL PAMED SURFACES WITHIN ORE (1) CALENDAR DAY OF DISCOVERY OR, IF APPLICABLE, WITHIN A SHORTER TIME TO AVOID A SAFETY HAZARD TO USERS OF PUBLIC STREETS HUNN. R. 7:000.

1.1 PERMITTEES MUST REPAIR, REPLACE OR SUPPLEMENT ALL PERIMETER CONTROL DEVICES WHEN THEY BECOME NORFUNCTIONAL OR THE SEDIMENT REACHES 1/2 OF THE HEIGHT OF THE DEVICE, [MINN. R. 7090] 11.8 PERMITTEES MUST DRAIN TEMPORARY AND PERMANENT SEDIMENTATION BASINS AND REMOVE THE SEDIMENT WHEN THE DEPTH OF SEDIMENT COLLECTED IN THE BASIN REACHES 1/2 THE STORAGE VOLUME. [MINN. R. 7090] 11.9 PERMITTEES MUST ENSURE THAT AT LEAST ONE INDIVIDUAL PRESENT ON THE SITE (OR AVAILABLE TO THE PROJECT SITE IN THREE (3) CALENDAR DAYS) IS TRAINED IN THE JOB DUTIES DESCRIBED IN ITEM 21.2.8. [MINN, R. 7090] 11.10 PERMITTEES MAY ADJUST THE INSPECTION SCHEDULE DESCRIBED IN ITEM 11.2 AS FOLLOW

A. INSPECTIONS OF AREAS WITH PERMANENT COVER CAN BE REDUCED TO ONCE PER MONTH, EVEN IF CONSTRUCTION ACTIVITY CONTINUES ON OTHER PORTIONS OF THE SITE; OR

B. WHERE SITES HAVE PERMANENT COVER ON ALL EXPOSED SOIL AND NO CONSTRUCTION ACTIVITY IS OCCURRING ANYWHERE ON THE SITE, INSPECTIONS CAN BE REDUCED TO ONCE PER MONTH AND, AFTER 12 MONTHS, MAY BE SUSPENDED COMPLETELY UNIT. CONSTRUCTION ACTIVITY RESUMES. THE MPCA MAY REQUIRE INSPECTIONS TO RESUME IF CONDITIONS WARRANT; OR

RESUME IF CORDITIONS WARRANT; OR.

C. WHERE CORSTRUCTION ACTIVITY HAS BEEN SUSPENDED DUE TO FROZEN GROUND CONDITIONS, INSPECTIONS MAY BE SUSPENDED. INSPECTIONS MUST RESUME WITHIN 24 HOURS OF RUNOFF OCCURRING, OR UPON RESUMING CONSTRUCTION, WHICHEVER COMESTIBLET, MINN. N. 7090.

11.11 PERMITTEES MUST RECORD ALL INSPECTIONS AND MAINTENANCE ACTIVITIES WITHIN 24 HOURS OF BEING CONDUCTED AND THESE RECORDS MUST BE RETAINED WITH THE SWPPP. THESE RECORDS MUST INCLUDE:

- B. NAME OF PERSONS CONDUCTING INSPECTIONS; AND
- . ACCURATE FINDINGS OF INSPECTIONS, INCLUDING THE SPECIFIC LOCATION WHERE CORRECTIVE ACTIONS ARE
- D. CORRECTIVE ACTIONS TAKEN (INCLUDING DATES, TIMES, AND PARTY COMPLETING MAINTENANCE ACTIVITIES); AND BATE OF ALL RAINTAL CYENTS GREATER THAN 1/2 INCHES IN 24 HOURS, AND THE AMOUNT OF RAINFALL FOR EACH EVENT, PERMITTES MUST OBTAIN PAINFALL AMOUNTS BY STRIFAGE ARROPMENT, MAINTAINED RAIN GAUGE INSTILLE ONSITE, A WEATHER STATION THAT IS WITHIN ONE (1) MILE OF YOUR LOCATION, OR A WEATHER REPORTING SYSTE THAT PROVIDES SITE SPECIFIC RAINFALL DATA FRON BADDA BUMMARIES, AND
- If PREMITTEES OBSERVE A DISCHARGE DURING THE INSPECTION, THEY MUST RECORD AND SHOULD PHOTOGRAPH AN DESCRIBE THE LOCATION OF THE DISCHARGE (LE., COLOR, DOOR, SETTLED OR SUSPENDED SOLIDS, OIL SHEEN, AND OTHER ORBIOUS INDICATORS OF POLILUTANTS; AND
- G. ANY AMENDMENTS TO THE SWPPP PROPOSED AS A RESULT OF THE INSPECTION MUST BE DOCUMENTED AS REQUIRED IN SECTION 6 WITHIN SEVEN (7) CALENDAR DAYS. [MINN. R. 7090]

12.1 POLLUTION PREVENTION MANAGEMENT MEASURES. [MINN. R. 7090]

12.2 PERMITTES MUST PIACE BUILDING PRODUCTS AND LANGEAGE MATERIALS UNDER COVER (E.G., PLASTIC SHEETING OR TEMPORARY ROOFS) OR PROTECT THEM BY SIMILARLY FFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WITH STORMWATER. PERMITTES ARE NOT REQUIRED TO COVER OR PROTECT PRODUCTS WHICH ARE ETHER NOT A SOURCE OF CONTAMINATION TO STORMWATER OR ARE DESIGNED TO BE EXPOSED TO STORMWATER. [MINN. R. 7090]

12.3 PERMITTEES MUST PLACE PESTICIDES, FERTILIZERS AND TREATMENT CHEMICALS UNDER COVER (E.G., PLASTIC SHEETING OR TEMPORARY ROOFS) OR PROTECT THEM BY SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WITH STORMARTE MINNS. R 75001 12.4 PERMITTEES MUST STORE HAZARDOUS MATERIALS AND TOXIC WASTE, (INCLUDING OIL, DIESEL FUEL, GASO IMDRAULIC FLUIDS, PAINT SOLVENTS, PETROLEUM-BASED PRODUCTS, WOOD PRESERVATIVES, ADDITIVES, CURIN

COMPOUNDS, AND ACIDS IN SEALED CONTAINERS TO PREVENT SPILLS, LEAKS OR OTHER DISCHARGE. STORAGE AND DISCOSAL OF HAZARDOUS WASTE MATERIALS MUST BE IN COMPLIANCE WITH MINN. R. CH. 7045 INCLUDING SECONDAI CONTAINMENT AS APPLICABLE. (MINN. R. 7090)

12.S PERMITTEES MUST PROPERLY STORE, COLLECT AND DISPOSE SOLID WASTE IN COMPLIANCE WITH MINN. R. CH. 7035.
[MINN. R. 7035] 12.6 PERMITTEES MUST POSITION PORTABLE TOILETS SO THEY ARE SECURE AND WILL NOT 11P OR BE KNOCKED OVER PERMITTEES MUST PROPERLY DISPOSE SANITARY WASTE IN ACCORDANCE WITH MINN. R. CH. 7041. [MINN, R. 7041]

TAY PERMITTEES MUST TAKE REASONABLE STEPS TO PREVENT THE DISCHARGE OF SPILLED OR LEAKED CHEMICALS, INCLUDING FUEL, FROM ANY AREA WHERE CHEMICALS OR FUEL WILL BE LOADED OR UNLOADED INCLUDING THE USE OF DRIP PAINS OR ABSORBENTS UNLESS INFEASIBLE. PERMITTEES MUST ENSURE ADEQUATE SUPPLIES ARE AVAILABLE AT ALL TIMES TO CLEAN UP DISCHARGED MATERIALS AND THAT AN APPROPRIATE DISPOSAL METHOD IS AVAILABLE FOR THES TO LLEAN O DISCURRED MATERIALS PRINTERS MUST REPORT AND CLEAN UP SPILLS IMMEDIATELY AS REQUIRED BY MINN. STAT. 115.061, USING DRY CLEAN UP MEASURES WHERE POSSIBLE. [MINN. STAT. 115.061]

12.8 PERMITTEES MUST LIMIT VEHICLE EXTERIOR WASHING AND EQUIPMENT TO A DEFINED AREA OF THE SITE. PERMITTEES MUST CONTAIN BUNDEF FROM THE WASHING AREA IN A SEDIMENT BASIN OR OTHER SIMILABLY EFFECTIVE CONTROLS AND MUST DISPOSE WASTE FROM THE WASHING ACTIVITY PROPERLY. PERMITTEES MUST PROPERLY USE AND STORE SOAPS, DETERGENTS, OR SOLVENTS. [MINN. R. 7090]

DETERGENTS, OR SOLVENTS. [MINN. R. 7090]

12.9 PERMITTEES MUST PROVIDE EFFECTIVE CONTAINMENT FOR ALL LIQUID AND SOLID WASTES GENERATED BY WASHOUT OPERATIONS (E.G., CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS) RELATED TO THE CONSTRUCTION ACTIVITY, PERMITTEES MUST PREVENT LIQUID AND SOLID WASHOUT WASTES FROM CONTACTION THE GROUND AND MUST DESIGN THE CONTAINMENT SO IT DOES NOT RESULT IN RUNOF FROM THE WASHOUT OPERATIONS OR AREAS. PERMITTEES MUST PROPERLY DISPOSE LIQUID AND SOLID WASTES IN COMPLIANCE WITH MPCA MULES. PERMITTEES MUST INSTAIL A SIGN DIOLOGING THE LOTTON OF THE WASHOUT FACILITY. (MINN. R.

13.1 PERMIT TERMINATION CONDITIONS, [MINN, R. 7090]

13.2 PERMITTEES MUST COMPLETE ALL CONSTRUCTION ACTIVITY AND MUST INSTALL PERMANENT COVER OVER ALL AREA PRIOR TO SUBMITTING THE NOT. VEGETATIVE COVER MUST CONSIST OF A UNIFORM PERENNIAL VEGETATION WITH A DENSITY OF 70 PERCENT OF 11 OF 11S EXPECTED FINAL GROWTH. VEGETATION IS NOT REQUIRED WHERE THE FUNCTION OF A SPECIFIC AREA DICTATES NO VEGETATION, SUCH AS IMPREVIOUS SURFACES OR THE BASE OF A SAND FILTER. HINN. R

13.3 PERMITTEES MUST CLEAN THE PERMANENT STORMWATER TREATMENT SYSTEM OF ANY ACCUMULATED SEDIMENT AND MUST ENSURE THE SYSTEM MEETS ALL APPLICABLE REQUIREMENTS IN SECTION 15 THROUGH 19 AND IS OPERATING AS

13.4 PERMITTEES MUST REMOVE ALL SEDIMENT FROM CONVEYANCE SYSTEMS PRIOR TO SUBMITTING THE NOT, IMINN. R.

13.5 PERMITTEES MUST REMOVE ALL TEMPORARY SYNTHETIC EROSION PREVENTION AND SEDIMENT CONTROL BMPS PRIOR TO SUBMITTING THE NOT. PERMITTEES MAY LEAVE BMPS DESIGNED TO DECOMPOSE ON-SITE IN PLACE. [MINN. R. 7090] 13.6 FOR RESIDENTIAL CONSTRUCTION ONLY, PERMIT COVERAGE TERMINATES ON INDIVIDUAL LOTS IT THE STRUCTURES ARE FINISHED AND ICEMPORARY EGOSION REVENTION AND DOWNGRADHENT PERMIETER CONTROL IS COMPLETE, THE RESIDENCE SELLS TO THE HOMEOWNER, AND THE PERMITTEE DISTRIBUTES THE MPCA'S "HOMEOWNER FACT SHEET" TO THE HOMEOWNER, HIMM. R. 79001.

13.7 FOR CONSTRUCTION PROJECTS ON AGRICULTURAL LAND (E.G., PIPELINES ACROSS CROPLAND), PERMITTEES MUST RETURN THE DISTURBED LAND TO ITS PRECONSTRUCTION AGRICULTURAL USE PRIOR TO SUBMITTING THE NOT. [MINN.

14.1 TEMPORARY SEDIMENT BASINS, IMINN, R. 70901

14.1 LEPHORORUS SELDIBERT, 09-5148. FURING, R. (2021)
14.2 WHERE THE (1) OR MORE ACRES OF DISTURBED SOIL DRAIN TO A COMMON LOCATION, PERMITTEES MUST PROVIDE A TEMPORARY SEDIMENT BASIN TO PROVIDE TREATMENT OF THE RUNOFF BEFORE TILEAVES THE CONSTRUCTION SITE OR PENERS SUPPRACE WATERS, PERMITTEES MAY CONVERT A TEMPORARY SEDIMENT BASIN TO A PERMANENT BASIN MATER. CONSTRUCTION IS COMPUTED. THE TEMPORARY BASIN IS NO LONGER REQUIRED WHEN PERMANENT COVER HAS REDUCED THE ACREAGE OF DISTURBED SOIL TO LESS THAN THE (1) ACREAGE SORAINING TO A COMMON LOCATION, HIMM, R. (2001) 14.3 THE TEMPORARY BASIN MUST PROVIDE LIVE STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A TWO (2)-YFAR 24-HOUR STORM FROM EACH ACRE DRAINED TO THE BASIN OR 1,800 CUBIC FEET OF LIVE STORAGE PER ACRE DRAINED, WHICHEYER IS GREATER. IMMN. R. 73901

14.4 WHERE PERMITTEES HAVE NOT CALCULATED THE TWO (2)-YEAR, 24-HOUR STORM RUNOFF AMOUNT, THE TEMPORAR' BASIN MUST PROVIDE 3,600 CUBIC FEET OF LIVE STORAGE PER ACRE OF THE BASINS' DRAINAGE AREA. [MINN. R. 7090] 14.5 PERMITTEES MUST DESIGN BASIN OUTLETS TO PREVENT SHORT-CIRCUITING AND THE DISCHARGE OF FLOATING DEBRIS. [MINN. R. 7090]

DISCHARGE OF POLUTAINS, PERMITTES MAY TEPPORARY SUSPENDED TO WITHORAW WATER FROM THE SURFACE TO MINIMIZE THE DISCHARGE OF POLUTAINS, PERMITTES MAY TEPPORARY SUSPEND THE USE OF A SURFACE WITHDRAWAL MECHANISM DURING FROZEN CONDITIONS. THE BASIN MUST INCLUDE A STABILIZED EMERGENCY OVERFLOW TO PREVENT FAILURE OF POND INTEGRITY, (MINN. R. 70%). PERMITTEES MUST DESIGN THE OUTLET STRUCTURE TO WITHDRAW WATER FROM THE SURFACE TO MINIMIZE THE MARGE OF POLLUTANTS, PERMITTEES MAY TEMPORARILY SUSPEND THE USE OF A SURFACE WITHDRAWAL MECHAN

14.7 PERMITTEES MUST PROVIDE ENERGY DISSIPATION FOR THE BASIN OUTLET WITHIN 24 HOURS AFTER CONNECTION TO A SURFACE WATER INJUNE & 70001 14.8 PERMITTEES MUST LOCATE TEMPORARY BASINS OUTSIDE OF SURFACE WATERS AND ANY BUFFER ZONE REQUIRED IN TEM 23.1. [MINN 8: 2009]

ITEM 23.3.1. [MINN. R. 7990]

14.9 PERMITTES MUST CONSTRUCT THE TEMPORARY BASINS PRIOR TO DISTURBING 10 OR MORE ACRES OF SOIL DRAINING TO A COMMON LOCATION. [MINN. R. 7990]

14.10 WHERE A TEMPORARY SEDIMENT BASIN MEETING THE REQUIREMENTS OF ITEM 14.3 THROUGH 14.9 IS INFEASIBLE, PERMITTEES MUST INSTALL EFFECTIVE SEDIMENT CONTROLS SUCH AS SMALLER SEDIMENT BASINS AND/OR SEDIMENT TRAPS, SLIT ERRCES, VEGETATIVE BUFFER STRIKE OR MAY APPROPRIATE COMBINATION OF HEASURES AS DISTATED BY MODIFIED AND APPROPRIATE COMBINATION OF HEASURES AS DISTATED BY MINISTORY OF THE MODIFIED SHETY AND ANY COMPANIES OF THE MISTALLING A SEDIMENT BASIN IS INFEASIBLE, PERMITTEES MUST CONSIDER PURDLE SAFETY AND ANY COMSIDER FACTORS SUCH AS SITE SOILS, SLOPE, AND AVAILABLE AREA ON-SITE. PERMITTEES MUST CONSIDER PURDLE SAFETY AND ANY COMSIDER FACTORS SUCH AS SITE SOILS, SLOPE, AND AVAILABLE AREA ON-SITE. PERMITTEES MUST CONSIDER PURDLE SAFETY AND ANY COMPANIES OF THE MISTALLING A SEPPO, MINN. R. 7990]

15.1 PERMANENT STORMWATER TREATMENT SYSTEM, (MINN, R. 7090)

15.2 PERMITTEES MUST DESIGN THE PROJECT SO ALL STORMWATER DISCHARGED FROM THE PROJECT DURING AND ATI-CONSTRUCTION ACTIVITIES DOSE NOT CAUSE A VIOLATION OF STATE WATER QUALITY STANDARDS, INCLUDIEN ONLISH CONDITIONS, EROSION IN RECEIVING CHANNELS OR ON DOWNSLOPE PROPERTIES, OR A SIGNIFICANT ADVERSE IMPACT WETLANDS CAUSED BY MUNDRATION OR DECREASE OF FLOW. HIMIN. R. 7099]

13.3 PERMITTEES MUST DESIGN AND CONSTRUCT A PERMANENT STORMWATER TREATMENT SYSTEM TO TREAT THE WATER QUALITY VOLUME IF THE PROJECT'S ULTIMATE DEVELOPMENT REPLACES VEGETATION AND/OR OTHER PREVIOUS SURFACE CREATION AND/OR OTHER PREVIOUS SURFACE CREATION AND THORRESS OF ONE (1) OR MORE ACRES OF COUNCILITY DEVERYOUS SURFACE, (HINN R. 700). 15.4 PERMITTEES MUST CALCULATE THE WATER QUALITY VOLUME AS ONE (1) INCH TIMES THE NET INCREASE OF IMPERVIOUS SURFACES CREATED BY THE PROJECT. [MINN. R. 7090]

INTERVIOUS SOURCES CHORTS OF THE TROUGH. REDUCTION PRACTICES ON-SITE (E.G., INFILTRATION OR OTHER) WHEN DESIGNING THE PERMANENT STORMWATER TREATMENT SYSTEM. IF THIS PERMIT PROHIBITS INFILTRATION AS DESCRIBED IN 1TEM 16.14 THROUGH THEM 16.21, PERMITTEES MAY CONSIDER A WET SEDIMENTATION BASIN, FILTRATION RASIN OR REGIONAL POND. THIS PERMIT DOCS NOT CONSIDER WET SEDIMENTATION BASINS AND FILTRATION SYSTEMS TO BE VOLUME REDUCTION PRACTICES, IMINN, R. 70901

15.6 FOR PROJECTS WHERE THE FULL VOLUME REDUCTION REQUIREMENT CANNOT BE MET ON-SITE, (E.G., THE SITE HAS INFILTRATION PROHIBITIONS), PERMITTEES MUST DOCUMENT THE REASONS IN THE SWPPP. [MINN. R. 7090] 15.7 PERMITTEES MUST DISCHARGE THE WATER QUALITY VOLUME TO A PERMANENT STORMWATER TREATMENT SYSTEM PRIOR TO DISCHARGE TO A SURFACE WATER FOR PRIOR STORMOSES OF THIS TIEM, SURFACE WATERS DO NOT INCLUDE MAN-H. DEALINGE SYSTEMS THAT CONVEY STORMWATER TO A PERMANENT STORMWATER TREATMENT SYSTEM, MINN. R. 7090 15.8 WHERE THE PROXIMITY TO BEDROCK PRECLUDES THE INSTALLATION OF ANY OF THE PERMANENT STORMWATER TREATMENT PRACTICES REQUIRED BY SECTIONS 15 THROUGH 19, PERMITTEES MUST INSTALL OTHER TREATMENT (RASSED SWALES, SMALLER) PONDS, OR GRIT CHAMBERS, PRIOR TO THE DISCHARGE OF STORMWATER TO SURFACE

WATERS, [MINN, R. 7090]

15. FOR LINEAR PROLECTS WHERE PERMITTEES CANNOT TREAT THE ENTIRE WATER QUALITY VOLUME WITHIN THE EXISTING RIGHT-OF-WAY, PERMITTEES MUST MAKE A REASONABLE ATTEMPT TO OBTAIN ADDITIONAL RIGHT-OF-WAY, EASEMENT OR OTHER PERMISSION FOR STORMWATER TREATMENT DURING THE PROCECT PLANNING PROCESS. DOCUMENTATION OF THESE ATTEMPTS MUST BE IN THE SWOPP, PERMITTEES MUST STILL CONSIDER VOLUME REDUCTION PRACTICES THEST AS DESCRIBED IN TIEM 15.5. IF PERMITTEES CANNOT OBTAIN ADDITIONAL RIGHT-OF-WAY, EASEMENT-OTHER PERMISSION, THEY MUST MAXIMIZE THE TREATMENT OF THE WATER QUALITY VOLUME PRIOR TO DISCHARGE TO SUBFACE WATERS, [MINN, R. 7090]

16.1 INFILTRATION SYSTEMS. (MINN. R. 7090)

10.1 INFLUNATION TSTSTEMS, IMINN. K., 709U)

10.1 INFLUNATION OPTIONS INCLUDE, BUT ARE NOT LIMITED TO: INFLUNATION BASINS, INFLUNATION TRENCHES, RAINWATER GARDENS, BIORETENTION AREAS WITHOUT UNDERDAMINS, SWALES WITH IMPERMEABLE CHECK DAMS, AND ANTURAL DEPRESSIONS. IP REPRINTEES UTILIZE AN INFLUNATION SYSTEM TO MEET THE REQUIREMENTS OF THIS PERMITTENT WILLY AND ANTURAL DEPRESSIONS. IN THIS PERMIT THEY MUST INCORPORATE THE DESIGN PARAMETERS IN TIEM 16.3 THROUGH THEM 16.21. PERMITTEES MUST FOLLOW THE INFLUNATION PROBIBITION IN TIEM 16.14 ANYTIME AN INFLUTANTION SYSTEM IS DESIGNED, INCLUDING THOSE NOT REQUIRED BY THIS PERMIT. [MINN. R. 7090] 16.3 PERMITTEES MUST DESIGN INFILTRATION SYSTEMS SUCH THAT PRE-EXISTING HYDROLOGIC CONDITIONS OF WETLANDS IN THE VICINITY ARE NOT IMPACTED (E.G., INUNDATION OR BREACHING A PERCHED WATER TABLE SUP A WETLAND, IMPIN. R. 70901

16.4 PERMITTEES MUST NOT EXCAVATE INFILTRATION SYSTEMS TO FINAL GRADE, OR WITHIN THREE (3) FEET OF FINAL GRADE, UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN CONSTRUCTED AND FULLY STABILIZED UNLESS THEY E, JUNIA THE CONTINUO THE OWNER HAS BEEN CONTROLS (E.G., DIVERSION BERMS) TO KEEP SEDIMENT AND DE RIGOROUS EROSION PREVENTION AND SEDIMENT CONTROLS (E.G., DIVERSION BERMS) TO KEEP SEDIMENT AND FF COMPLETELY AWAY FROM THE INFILTRATION AREA. [MINN. R. 7090]

16.5 WHEN EXCAVATING AN INFILTRATION SYSTEM TO WITHIN THREE (3) FEET OF FINAL GRADE, PERMITTEES MUST STAKE OFF AND MARK THE AREA SO HEAVY CONSTRUCTION VEHICLES OR EQUIPMENT DO NOT COMPACT THE SOIL IN THE INFILTRATION AREA. [MINN. R. 7909]

INTIL INDITION AREA. IMIRIN. R. 2000]
16.6 PERMITTEES MUST USE A PREFIREATMENT DEVICE SUCH AS A VEGETATED FILTER STRIP, FOREBAY, OR WATER QUALITY INLET (E.G., GRIT CHAMBER) TO REMOVE SOLIDS, FLOTING MATERIANS, AND OIL AND GREASE FROM THE RUNOF, TO MAXIMUM EXTERN PRACTICABLE, EFFORE THE STRY REMOVED TO THE INTILITATION SYSTEM. HIMIN R. MAXIMUM EXTERN PRACTICABLE, EFFORE THE STRY ROUTES TO STRY THE MORE THE PROPERTY OF THE PROPE

/990]
16.7 PERMITTEES MUST DESIGN INFILTRATION SYSTEMS TO PROVIDE A WATER QUALITY VOLUME (CALCULATED AS AN INSTANTANEOUS VOLUME) OF ONE (1) INCH OF RIVERY OR THE WATER THE ATT AN ANOTHER YESTEM OTHER SITE, FROM THE NET INCREASE OF IMPREVIOUS SURFACES CAREATED BY THE WOLDECT. [MI N. 7991)
16. A PERMITTEES MUST DESIGN THE INFILTRATION SYSTEM TO DISCHARGE ALL STORMWATER (INCLUDING STORMWATER IN EXCESS OF THE WATER QUALITY VOLUME) ROUTED TO THE SYSTEM THROUGH THE UPPERMOST SOIL SUBFACE OR ENGINEERED MEDIA SURFACE WITHIN 48 HOURS. PERMITTEES MUST ROUTE ADDITIONAL FLOWS THAT CANNOT INFILTRATE WITHIN 48 HOURS TO BYPASS THE SYSTEM THROUGH A STABILIZED DISCHARGE POINT, IMINN. R. 7090]

16.9 PERMITTEES MUST PROVIDE A MEANS TO VISUALLY VERIFY THE INFILTRATION SYSTEM IS DISCHARGING THROUGH THE SOIL SURFACE OR FILTER MEDIA SURFACE WITHIN 48 HOURS OR LESS. [MINN. R. 7090]

16.10 PERMITTEES MUST PROVIDE AT LEAST ONE SOIL BORING, TEST PIT OR INFILTROMETER TEST IN THE LOCATION OF THE INFILTRATION PRACTICE FOR DETERMINING INFILTRATION RATES. [MINN. R. 7090] ITEL INCLUSION PURPOSES, PERMITTEES MUST DIVIDE FIELD MEASURED INFILITATION RATES BY 2 AS A SAFETY FACTOR OF PERMITTEES CAN USE SOIL-BORING RESULTS WITH THE INFILITATION RATE CHART IN THE MINNESOTA STORMWATER MANUAL TO DETERMINE DESIGN INFILITATION RATE. WHEN SOIL BORINGS INDICATE TYPE A SOIL, FREMITTEES SHOULD PERFORM FIELD MEASUREMENTS TO VERIFY THE RATE IS NOT ABOVE 8.3 INCHES PER HOUR. THIS PERMIT PROHIBITS INFILITATION RATE IS ABOVE 9.3 INCHES PER HOUR. THIS PERMIT PROHIBITS INFILITATION RATE IS ABOVE 9.3 INCHES PER HOUR. BINN. R. 7990]

16.12 PERMITTEES MUST EMPLOY APPROPRIATE ON-SITE TESTING ENSURE A MINIMUM OF THREE (3) FEET OF SEPARATION FROM THE SEASONALLY SATURATED SOILS (OR FROM BEDROCK) AND THE BOTTOM OF THE PROPOSED INFILTRATION SYSTEM (MINIM P. 2000) 16.13 PERMITTEES MUST DESIGN A MAINTENANCE ACCESS, TYPICALLY EIGHT (8) FEET WIDE, FOR THE INFILTRATION SYSTEM. [MINN. R. 7090]

5751EM, INTERN. A. STATE PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS THAT RECEIVE RUNOFF FROM VEHICLE FUELING AND MAINTEANCE AREAS INCLUDING CONSTRUCTION OF INFILTRATION SYSTEMS NOT REQUIRED BY THIS PERMIT. (MINN. N. 7090)

THIS PERMIT. [MINK. R. 7090]

16.15 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFLITATION SYSTEMS WHERE INFILTRATING STORMWATER MAY MOBILIZE HIGH LEVELS OF CONTAMINANTS IN SOIL OR GROUNDWATER, PERMITTEES MUST ETHER COMPLETE THE MPCA'S CONTAMINATION SCREENING CHECKLIST OR CONDUCT THEIR OWN ASSESSMENT TO DETERMINE SUITABILITY FOR INFILTRATION, PERMITTEES MUST RETAIN THE CHECKLIST OR ASSESSMENT WITH THE SWOPP. FOR MOS INFORMATION AND TO ACCESS THE MPCA'S "CONTAMINATION SCREENING CHECKLIST" SEE THE MINNESOTA STORMWATE MANUAL. [MINN, R. 7090]

MANUAL. [MINN, R. / J029]
16.16 THIS FERRIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS IN AREAS WHERE SOIL
INFILTRATION RAYES ARE FIELD MEASURED AT MORE THAN 8.3 INCHES PER HOUR UNLESS THEY AMEND SOILS TO SLOW
THE INFILTRATION RATE BLOW 8.3 INCHES PER HOUR. [MINN, R. 7090]

10.17 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTION INFILTRATION SYSTEMS IN AREAS WITH LESS THAN THREE (3) FEET OF SERMATION DISTANCE FROM THE BOTTOM OF THE INFILTRATION SYSTEM TO THE ELEVATION OF THE SEASONALTS ASTURATED SOLIS OR THE TOP OF BEDROCK, HINNER, 70.001 16.18 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS IN AREAS OF PREDOMINATELY HYDROLOGIC SOIL GROUP TYPE D SOILS (CLAY). (MINN. R. 7090)

16.19 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS WITHIN A DRINKING WATER SUPPLY MANAGEMENT AREA (DWSMA) AS DEFINED IN MINN. R. 4720.5100, SUBP. 13, IF THE SYSTEM WILL BE LOCATED: A. IN AN EMERGENCY RESPONSE AREA (ERA) WITHIN A DWSMA CLASSIFIED AS HAVING HIGH OR VERY HIGH VULNERABILITY AS DEFINED BY THE MINNESOTA DEPARTMENT OF HEALTH; OR

B. IN AN ERA WITHIN A DWSMA CLASSIFIED AS MODERATE VULNERABILITY UNLESS A REGULATED MS4 PERMITTEE PERFORMED OR APPROVED A HIGHER LEVEL OF ENGINEERING REVIEW SUFFICIENT TO PROVIDE A FUNCTIONING TREATMENT SYSTEM AND TO PREVENT ADVERSE IMPACTS TO GROUNDWATER; OR

C. OUTSIDE OF AN ERA WITHIN A DWSMA CLASSIFIED AS HAVING HIGH ON VERY HIGH VULNERABILITY, UNLESS A REGULATED MS4 PERMITTEE PERFORMED OR APPROVED A HIGHER LEVEL OF ENGINEERING REVIEW SUFFICIENT TC PROVIDE A FUNCTIONING TREATMENT SYSTEM AND TO PREVENT ADVERSE IMPACTS TO GROUNDWAFTER. SEE "HIGHER LEVEL OF ENGINEERING REVIEW" IN THE MINNESOTA STORMWATER MANUAL FOR MORE INFORMATION. [MINN

16.20 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS IN AREAS WITHIN 1,000 FEET UPGRADIENT OR 100 FEET DOWNGRADIENT OF ACTIVE KARST FEATURES. [MINN. R. 7090]

16.21 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS IN AREAS THAT RECEIVE RUNOFF FROM THE FOLLOWING INDUSTRIAL FACILITIES NOT AUTHORIZED TO INFILTRATE STORMWATER UNDER THE MPDES STORMWATER PRINT FOR INDUSTRIAL ACTIVITIES: AUTOMOBILE SALVAGE YARDS; SCRAP RECYCLING AND WASTE RECYCLING FACILITIES; MAZARDOUS WASTE TREATMENT, STORAGE, OR DISPOSAL FACILITIES; OR AIR TRANSPORTATION FACILITIES THAT CONDUCT DELIVING AUTOMOBILES (MINN. R. 7090)

17.1 FILTRATION SYSTEMS, [MINN, R. 7090]

12.1 ILLINATION OFFICES INCLUDE, BUT ARE NOT LIMITED TO: SAND FILTERS WITH UNDERDRAINS, BIOFILTRATION AREAS, SWALES USING UNDERDRAINS WITH IMPERMEABLE CHECK DAMS AND UNDERGROUND SAND FILTERS. IF PERMITTEES UTILIZE A FILTRATION SYSTEM TO NEET THE PERMANENT STORMWATER I REATMENT REQUIREMENTS OF THIS PERMIT, THEY MUST COMPLY WITH ITEMS 17.3 THROUGH 17.11. [MINN. R. 7090]

17.3. PERMITTEES MUST NOT INSTALL FILTER MEDIA UNTIL THEY CONSTRUCT AND FULLY STABILIZE THE CONTRIBUTING DRAIMAGE AREA UNLESS THEY PROVIDE RIGGROUS EROSION PREVENTION AND SEDIMENT CONTROLS (E.G., DIVERSION BERMS) TO KEEP SEDIMENT AND RADEA (HINN. R. 7090) 12.4 PERMITTEES MUST DESIGN FILTRATION SECRETARY OF A PERMITTEES MUST DESIGN FILTRATION SYSTEMS TO REMOVE AT LEAST 80 PERCENT OF TSS. [MINN. R. 7090]

17.5 PERMITTEES MUST USE A PRETREATMENT DEVICE SUCH AS A VEGETATED FILTER STRIP, SMALL SEDIMENTATION BASIN, WATER QUALITY INLET, FOREBAY OR HYDRODYNAMIC SEPARATOR TO REMOVE SETTLEABLE SOLIDS, FLOATING MATERIALS, AND LIS AND GREASE FROM THE RUNOFF, TO THE MAXIMUM EXTENT PRACTICABLE, BEFORE RUNOFF ENTERS THE FILTRATION SYSTEM. [MINN. R. 7090]

THE PROJECT LITTLE FOR THE PROJECT LITTLE FROM THE RESEARCH A WATER QUALITY VOLUME (CALCULATED AS AN INSTANTANEOUS VOLUME) OF ONE (1) INCH OF RUNOFF, OR ONE (1) INCH MINUS THE VOLUME OF STORMWATER TREATED BY ANOTHER SYSTEM ON THE SITE, FROM THE NET INCREASE OF IMPERVIOUS SURFACES CREATED BY THE PROJECT. [MINN 0.7001]

R. 7990]
17.7 PERMITTEES MUST DESIGN THE FILTRATION SYSTEM TO DISCHARGE ALL STORMWATER (INCLUDING STORMWATER IN EXCESS OF THE WATER QUALITY VOLUME) ROUTED TO THE SYSTEM THROUGH THE UPPERMOST SOIL SUBFACE OR EXCINCERED REDIA SUFFACE WITHIN 48 HOURS. ADDITIONAL FLOWS THAT THE SYSTEM CANNOT FILTER WITHIN 48 HOURS MUST BYPASS THE SYSTEM OR DISCHARGE THROUGH AN EMERGENCY OVERFLOW. [MINN. R. 7090]

17.6 PERMITTEES MUST DESIGN THE FILTRATION SYSTEM TO PROVIDE A MEANS TO VISUALLY VERIFY THE SYSTEM IS DISCHARGING THROUGH THE SOIL SURFACE OR FILTER MEDIA WITHIN 48 HOURS. [MINN. R. 7090]

17.9 PERMITTEES MUST EMPLOY APPROPRIATE ON-SITE TESTING TO ENSURE A MINIMUM OF THREE (3) FEET OF SEPARATION BETWEEN THE SEASONALLY SATURATED SOILS (OR FROM BEDROCK) AND THE BOTTOM OF THE PROPOSED FILTRATION SYSTEM, [MIN. R. 7090] 17.10 PERMITTEES MUST ENSURE THAT FILTRATION SYSTEMS WITH LESS THAN THREE (3) FEET OF SEPARATION BETWEEN SEASONALLY SATURATED SOILS OR FROM BEDROCK ARE CONSTRUCTED WITH AN IMPERMEABLE LINER. [MINN. R. 7090] 17.11 THE PERMITTEES MUST DESIGN A MAINTENANCE ACCESS, TYPICALLY EIGHT (8) FEET WIDE, FOR THE FILTRATION SYSTEM, IMINN. R. 70901

18.1 WET SEDIMENTATION BASIN, [MINN, R, 7090]

8.2 PERMITTEES USING A WET SEDIMENTATION BASIN TO MEET THE PERMANENT STORMWATER TREATMENT EQUIREMENTS OF THIS PERMIT MUST INCORPORATE THE DESIGN PARAMETERS IN ITEM 18.3 THROUGH 18.10. [MINN. R.

18.3 PERMITTEES MUST DESIGN THE BASIN TO HAVE A PERMANENT VOLUME OF 1,800 CUBIC FEET OF STORAGE BELOW THE OUTLET PIPE FOR EACH ACRE THAT DRAINS TO THE BASIN. THE BASIN'S PERMANENT VOLUME MUST REACH A MINIMUM DEPTH OF AT LEAST HIRRE (3) FEET AND MUST HAVE NO DEPTH OF AT LEAST HIRRE (3) FEET AND MUST HAVE NO DEPTH OF AT LAST HIRRE (3) FEET AND MUST HAVE NO DEPTH OF AT LAST HIRRE (3) FEET AND MUST HAVE NO DEPTH OF AT LAST HIRRE SCOUR OR RESUSPENSION OF SOLIDS. [MINN. R. 7690]

18.4 PERMITTEES MUST DESIGN THE BASIN TO PROVIDE LIVE STORAGE FOR A WATER QUALITY VOLUME (CALCULATED AS AN INSTANTANEOUS VOLUME) OF ONE (1) INCH OF DUNOFF, OR ONE (1) INCH MINDS THE VOLUME OF STORMWATER TREATED BY ANOTHER SYSTEM ON THE SITE, FROM THE AFT INCREASE IN MIRRENYOUS SURFACES CREATED BY THE PROJECT, IMIN.

18.5 PERMITTEES MUST DESIGN BASIN OUTLETS SO THE WATER QUALITY VOLUME DISCHARGES AT NO MORE THAN 5.66 CUBIC FEET PER SECOND (CFS) PER ACRE OF SURFACE AREA OF THE BASIN. [MINN, R. 7090] 18.6 PERMITTEES MUST DESIGN BASIN OUTLETS TO PREVENT SHORT-CIRCUITING AND THE DISCHARGE OF FLOATING DEBRIS. BASIN OUTLETS MUST HAVE ENERGY DISSIPATION. [MINN. R. 7090]

18.7 PERMITTEES MUST DESIGN THE BASIN TO INCLUDE A STABILIZED EMERGENCY OVERFLOW TO ACCOMMODATE STORM EVENTS IN EXCESS OF THE BASIN'S HYDRAULIC DESIGN. (MINN. R. 7090)

18.8 PERMITTEES MUST DESIGN A MAINTENANCE ACCESS, TYPICALLY EIGHT (8) FEET WIDE, FOR THE BASIN. [MINN. R.

1999 PERMITTEES MUST LOCATE BASINS OUTSIDE OF SURFACE WATERS AND ANY BUFFER ZONE REQUIRED IN ITEM 23.11. PERMITTEES MUST DESIGN BASINS TO AVOID DRAINING WATER FROM WETLANDS UNLESS THE IMPACT TO THE WETLAND COMPLIES WITH THE REQUIREMENTS OF SECTION 2.2 [MINN. R. 7090] 18.10 PERMITTEES MUST DESIGN BASINS USING AN IMPERMEABLE LINER IF LOCATED WITHIN ACTIVE KARST TERRAIN.

19.1 REGIONAL WET SEDIMENTATION BASINS. [MINN. R. 7090]

20.1 SWPPP AVAILABILITY, [MINN, R. 7090]

20.2 PERMITTEES MUST KEEP THE SWPPP, INCLUDING ALL CHANGES TO IT, AND INSPECTIONS AND MAINTENANCE RECORDS AT THE SITE OURING NORMAL WORKING HOURS BY PERMITTEES WHO HAVE OPERATIONAL CONTROL OF THAT PORTION OF THE SITE, ININ. R. 7.090)

21.1 TRAINING REQUIREMENTS. [MINN. R. 7090]

2).2 PERMITTEES MUST ENSURE ALL OF THE FOLLOWING INDIVIDUALS RECEIVE TRAINING AND THE CONTENT AND EXTENT OF THE TRAINING IS COMMENSURATE WITH THE INDIVIDUAL'S JOB DUTIES AND RESPONSIBILITIES WITH REGARD TO ACTIVITIES COVERED UNDER THIS PERMIT:

. INDIVIDUALS PREPARING THE SWPPP FOR THE PROJECT.

B. INDIVIDUALS OVERSEEING IMPLEMENTATION OF, REVISING AND/OR AMENDING THE SWPPP AND INDIVIDUALS PERFORMING INSPECTIONS FOR THE PROJECT. ONE OF THESE INDIVIDUALS MUST BE AVAILABLE FOR AN ONSITE INSPECTION WITHIN 27 HOURS UPON REQUEST BY THE MECA.

INDIVIDUALS PERFORMING OR SUPERVISING THE INSTALLATION, MAINTENANCE AND REPAIR OF BMPS. [MINN, R. 7090] C. INDIVIDUALS PERI DIRRING OR SUPERVISING THE INSTALLATION, PHATHERANCE AND REPAIR OF BHES, PHINE, R. JUSUS, 13. PERMITTES MUST ENSURE INDIVIDUALS IDENTIFIED IN SECTION 2.1 RECEIVE TRAINING FROM LOCAL, STATE, FEDERAL AGENCIES, PROFESSIONAL ORGANIZATIONS, OR OTHER ENTITIES WITH EXPERTISE IN EROSION PREVENTION, SEDIMENT CONTROL, PERMANENT STORMWATER TREATMENT AND THE MINNESOTA MPDES/SDS CONSTRUCTION STORMWATER PERMIT. PERMITTEES MUST ENSURE THESE INDIVIDUALS ATTEND A REFRESHER-TRAINING COURSE EVERY THREE (3) YEARS, (MINN.

24.1 GENERAL PROVISIONS, [MINN, R. 7090]

24.2 IF THE MEDICAL DETERMINES THAT AM INDIVIDUAL PERMIT WOULD MORE APPROPRIATELY REGULATE THE CONSTRUCTION ACTIVITY, THE MECA MAY REQUIRE AN INDIVIDUAL PERMIT TO CONTINUE THE CONSTRUCTION ACTIVITY, COVERAGE UNDER THIS GENERAL PERMIT WILL REMAIN IN EFFECT UNTIL THE MECA ISSUES AN INDIVIDUAL PERMIT, (HINN. R. 7001.07.10, 70

SUBP. 0]

4.3. IF THE PERMITTEE CANNOT MEET THE TERMS AND CONDITIONS OF THIS GENERAL PERMIT, AN OWNER MAY REQUEST AN INDIVIDUAL PERMIT, IN ACCORDANCE WITH MINN. R. 7001.0210 SUBP. 6. [MINN. R. 7001.0210, SUBP. 6]

24.4. ANY INTERESTED PERSON MAY PETITION THE MPCA TO REQUIRE AN INDIVIDUAL NPDES/SDS PERMIT IN ACCORDANCE WITH 40 CFR 122.28(B)(3). [40 CFR 122.28(B)(3)]

THIN TO UTE LEAL SUBJICES HIS WAS PROVIDED BY THE DURATION REPORTS, MAINTENANCE RECORDS, TRAINING RECORDS AND OTHER INFORMATION REQUIRED BY THIS PERMIT, AVAILABLE TO FEDERAL, STATE, AND LOCAL OFFICIALS WITHIN THE (3) DAYS UPON REQUISE TO BE DURATION OF THE PERMIT AND FOR THREE (3) YEARS FOLLOWING THIS PROVIDED BY THE PERMIT AND FOR THREE (3) YEARS FOLLOWING THIS PROVIDED BY THE PERMIT AND FOR THREE (3) YEARS FOLLOWING THIS PROVIDED BY THE PERMIT AND FOR THREE (3) YEARS FOLLOWING THIS PROVIDED BY THE PERMIT AND FOR THREE (3) YEARS FOLLOWING THIS PROVIDED BY THE PERMIT AND FOR THREE (3) YEARS FOLLOWING THIS PROVIDED BY THE PERMIT AND FOR THREE THE PERMIT AND THE PERMIT AND FOR THREE THE PERMIT AND THE PE

24.6 PERMITTEES MAY NOT ASSIGN OR TRANSFER THIS PERMIT EXCEPT WHEN THE TRANSFER OCCURS IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF ITEM 3.7 AND 3.8. [MINN. R. 7090]

WHE INE APPLICABLE REQUIREMENTS OF THE 3.7 ARD 3.8. [MIRN. R. 7.090]
24.7 NOTHING IN THIS PERMIT MUST BE CONSTRUED TO RELIEVE THE PERMITTEES FROM CIVIL OR CRIMINAL PENALTIES FOR NONCOMPULANCE WITH THE TERMS AND CONDITIONS PROVIDED HEREIN. NOTHING IN THIS PERMIT MUST BE CONSTRUED TO PRECLULE THE INITIATION OF ANY LEGAL ACTION OR RELEVE THE PERMITTEES FROM ANY RESPONSIBILITIES, UABILITIES, OR PENALTIES TO WHICH THE PERMITTEES IS/ARE OR MAY BE SUBSECT TO UNDER SECTION 311 OF THE CLEAN WATER ACT AND MINN. STAT. SECT. 115 AND 116, AS AMENDED. PERMITTES ARE NOT LIABLE FOR PERMIT REQUIREMENTS FOR ACTIVITIES OCCURRING ON THOSE FOR TIONS OF A SITE WHERE THE PERMIT HAS BEEN TRANSFERRED TO ANOTHER PRATTY AS REQUIRED IN 15EM 3.7 OR THE PERMITTEES HAVE SUBMITTED THE NOT AS REQUIRED IN SECTION 4. [MINN. R. 7090]

IN SECULION 4. (MINN: N. 7/34)
24.8 THE PROVISIONS OF THIS PERMIT ARE SEVERABLE. IF ANY PROVISION OF THIS PERMIT OR THE APPLICATION OF ANY PROVISION OF THIS PERMIT TO ANY CIRCUMSTRACES IS HELD INVALID, THE APPLICATION OF SUCH PROVISION TO OTHER CIRCUMSTRACES, AND THE REAMHAIDER OF THIS PERMIT HUST NOT BE AFFECTED THEREBY, (MINN: R. 7/39)

24.10 THE PREMITTEES MIST ALLOW ACCESS AS PROVIDED IN A OFER 122-41(1) AND MINN. STAT. SECT. 115.04. THE PREMITTEES MIST ALLOW ACCESS AS PROVIDED IN A OFER 122-41(1) AND MINN. STAT. SECT. 115.04. THE PREMITTEES MUST ALLOW REPRESENTATIVES OF THE MICA OR ANY MEMBER, EMPLOYEE OR ACERT THEREOF, WHEN AUTHORIZED BY IT, JUPON PRESENTATION OR EDECENTIALS, TO CENTER UPON ANY PROPERTY, PUBLIC OR PRIVATE, FOR THE PURPOSE OF OBTAINING INFORMATION OR EXAMINATION OF RECORDS OR CONDUCTING SURVEYS OR INVESTIGATIONS. [40 CTR 122-41(1)]

24.11 FOR THE PURPOSES OF MINN. R. 7090 AND OTHER DOCUMENTS THAT REFERENCE SPECIFIC SECTIONS OF THI PERMIT, "STORMWATER DISCHARGE DESIGN REQUIREMENTS" CORRESPONDS TO SECTIONS 5, 6 AND 14 THROUGH "CONSTRUCTION ACTIVITY REQUIREMENTS" CORRESPONDS TO SECTIONS 7 THROUGH 13; AND "APPENDIX A" CORRESPONDS TO SECTIONS 22 AND 23. [MINN. R. 7090]

NEERING, II AKE DRIVE 110 AKES, MR1 550



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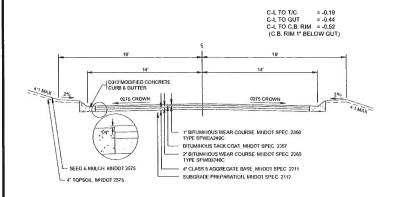
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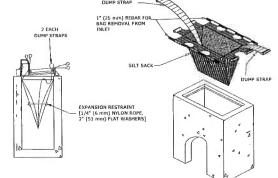
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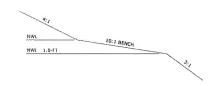
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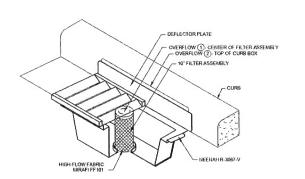


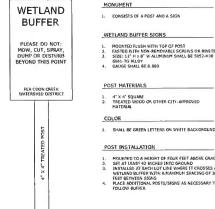
TYPICAL STREET SECTION (7-TON)

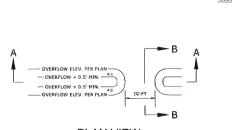
ROCK CONSTRUCTION EXIT

SILT SACK

TYPICAL POND SECTION









PLAN VIEW

SIZE

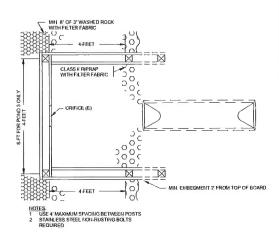
CASTING

WIMCO INLET PROTECTION

WETLAND BUFFER SIGNAGE

POND NUMBER
1 2 3 4 5 6 7 A 905.7 907.2 906.8 906.5 905.8 905.5 907.5 RIP-RAP OVERFLOWS

CASTING



TOP OF BOARDS	D	908.0	909.0	908.8	908.8	908.0	907.3	909.3	
ORIFICE TYPE	E	RECT	RECT	RECT	CIRCLE	CIRCLE	CIRCLE	RECT	
ORIFICE DIAMETER	E	n/a	n/a	n/a	8.2	7.3	8.3	n/a	
ORIFICE WIDTH IN	E	27.0	12.0	28.3	n/a	n/a	n/a	8.0	
ORIFICE HEIGHT IN	E	27.6	21.6	24.0	n/a	n/a	n/a	21.6	
BOTTOM OF BOARD 1	C	905.2	906.7	906.3	906.0	905.3	905.0	907.0	
BOTTOM OF OPENING	В	904.7	906.2	905.8	905.5	904.8	904.5	906.5	
DOWNSTREAM INVERT	F	905.50	907.00	906.60	906.30	905.60	905.30	907.30	
BOARD 1 — BOARD 2 — 2' X 6' PRESSURE TREATED BOARDS (TYP)									
(D) TOP OF BOARDS ORFICE (E) OUTLET PIPE (SEE UTILITY PLANS FOR LENGTH, SLOPE AND INVERTS)									

BOARD 2 2" X 6" PRESSURE TREATED BOARD STREES URE TREATED BOARD STREES (D) TOP OF BOARD STREES URE TREATED BOARD STREES (D) TOP OF BOARD STREES URE TREATED STREES (A) EL-4/ML - 2.0 FT	~ (F)
MI IMMUN 6" X 6" PRESSURE TREATED POSTS (4" MIN. BURY)	

BOARD 1 BOARD 2 2' X & PRESSURE TREATED BOARDS (TYP) ORFICE (E) CUTLET PIPE (SEE UTILITY PLANS FOR LENGTH, SLOPE AND INVERTS) BOARD 1 BOARD 2 (C) CUTLET PIPE (SEE UTILITY PLANS FOR LENGTH, SLOPE AND INVERTS)	L _(F)
MINIMUM Y X F PRESSURE TREATED POSTS (4' MIN. BUR')	
SIDE VIEW	

POND OUTLET BAFFLE WEIR

PLAN VIEW

102	48" DIA.	NEENAH R-3246-C	202	48" DIA.	NEENAH R-3246-C	502	48" DIA.	NEENAH R-3246-C
103	48" DIA.	NEENAH R-3246-C	204	2 x 3	NEENAH R-3246-C	503	2 x 3	NEENAH R-3246-C
105	48" DIA.	NEENAH R-3246-C		_		504	48" DIA.	NEENAH R-3246-C
106	48" DIA.	NEENAH R-3246-C	302	48" DIA.	NEENAH R-3246-C	505	2 x 3	NEENAH R-3246-C
108	MNDOT TYPE G	NEENAH R-2577	303	48" DIA.	NEENAH R-3246-C			
109	48" DIA.	NEENAH R-3246-C	304	48" DIA.	NEENAH R-3246-C	602	48" DIA.	NEENAH R-3246-C
110	48" DIA.	NEENAH R-3246-C	305	MNDOT TYPE G	NEENAH R-2577	603	48" DIA.	NEENAH R-3246-C
111	48" DIA.	NEENAH R-3246-C	307	48" DIA.	NEENAH R-2577	604	MNDOT TYPE G	NEENAH R-2577
112	2 x 3	NEENAH R-3246-C						
113	48" DIA.	NEENAH R-3246-C	402	48" DIA.	NEENAH R-3246-C	702	48" DIA.	NEENAH R-3246-C
114	48" DIA.	NEENAH R-3246-C	403	2 x 3	NEENAH R-3246-C	703	48" DIA.	NEENAH R-3246-C
115	48" DIA.	NEENAH R-3246-C	404	48" DIA.	NEENAH R-3246-C	704	48" DIA.	NEENAH R-3246-C
122	48" DIA.	NEENAH R-3246-C	405	48" DIA.	NEENAH R-3246-C	706	48" DIA.	NEENAH R-3246-C
123	2 x 3	NEENAH R-3246-C	406	2 x 3	NEENAH R-3246-C	707	2 x 3	NEENAH R-3246-C
124	48" DIA.	NEENAH R-3246-C						
125	48" DIA.	NEENAH R-3246-C						
126	2 x 3	NEENAH R-3246-C						
127	48" DIA.	NEENAH R-3246-C						
128	2 x 3	NEENAH R-3246-C						
130	48" DIA.	NEENAH R-3246-C						
131	48" DIA.	NEENAH R-3246-C						
132	2 x 3	NEENAH R-3246-C						

DETAILS

C3.1

SHEET

SWEDISH CHAPEL ESTATES

PLOWE ENGINEERING, INC. BYTE LAKE DRIVE SUITE 110 LIKO LAKES, MIL 55014 PROVIE (581), 561-5210

23-2122

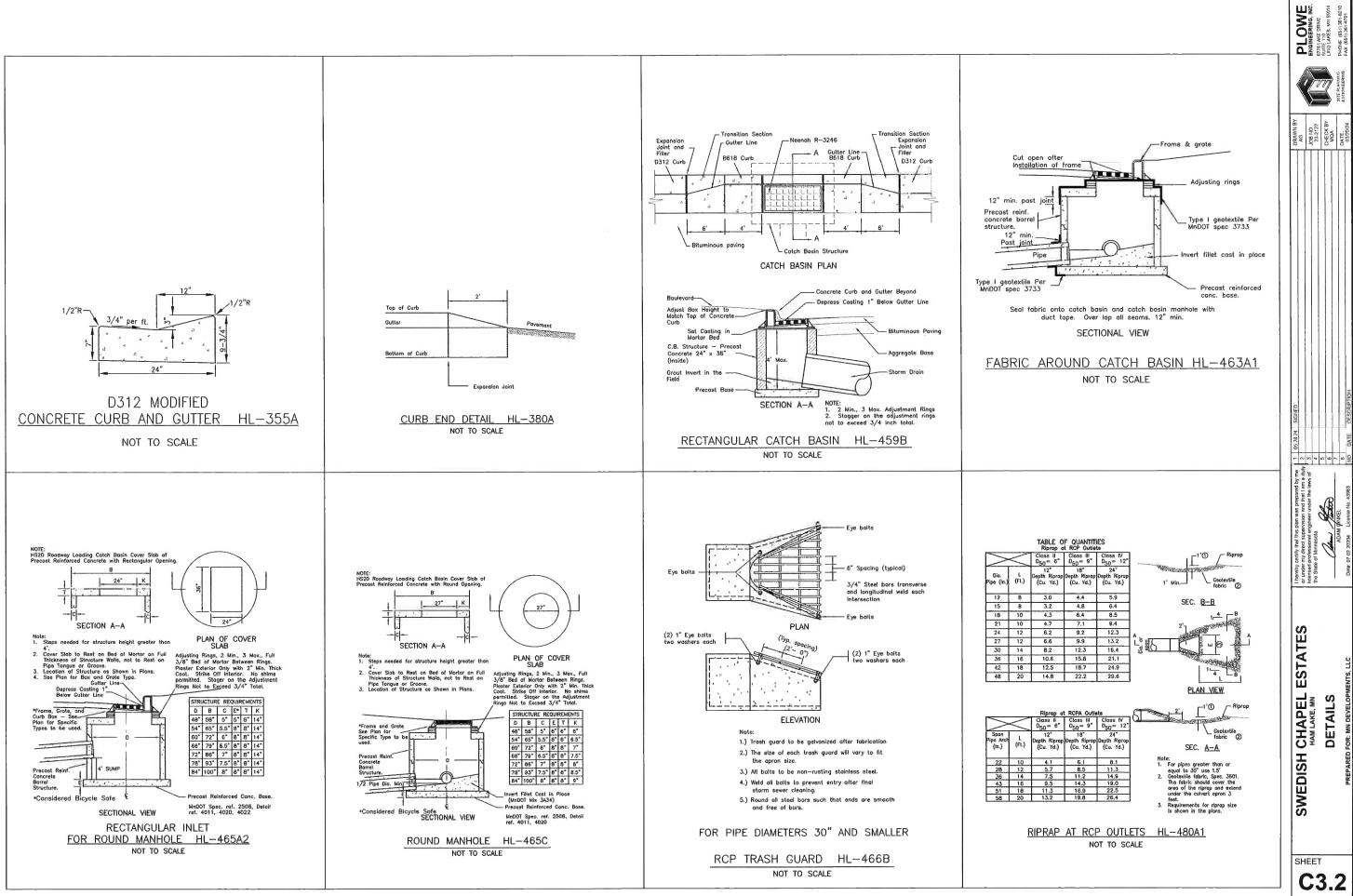
SIZE

OVERFLOW + 0.5' MIN. SECTION A - A

CASTING

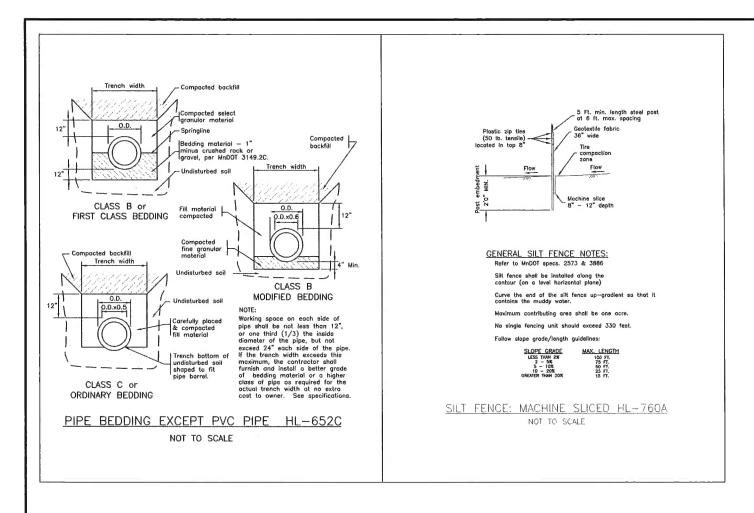
SECTION B - B

SIZE



22-21

23-212



PLOWE ENGINEERING, INC. 8778 LAKE DRIVE STATE 100 LING LAKES, MI 55974 L



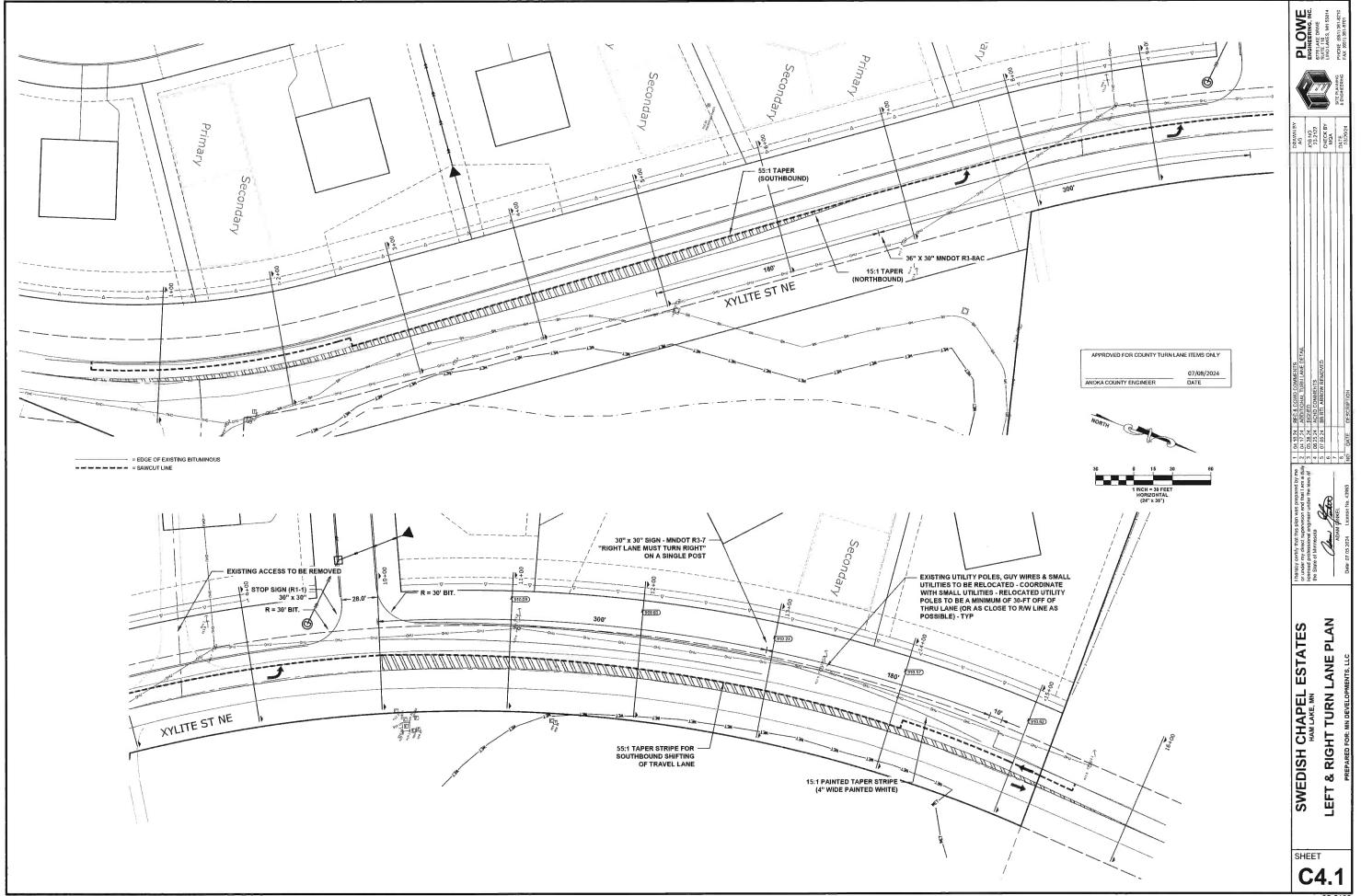
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AG	Oly acc	23,2127		CHECK BY- MOA			
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I however configure the plan was propared by me or under my drest supervision met their it am e duly honeved professorate angement under the laws off the State of Memoscala

SWEDISH CHAPEL ESTATES
HAMLAKE, MN
DETAILS

SHEET

C3.3



GENERAL NOTES

1. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF EXISTING UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION OF UTILITIES AS NECESSARY TO AVOID DAMAGE TO THESE UTILITIES.

CALL **811* FOR EXISTING UTILITIES LOCATIONS PRIOR TO ANY EXCAVATIONS.

THE CONTRACTOR SHALL FIELD VERIFY SIZE, ELEVATION, AND LOCATION OF EXISTING UTILITIES AND NOTIFY ENSINEER OF ANY DISCREPANCIES PRIOR TO THE STATT OF INSTALLATIONS.

1. INSTALLATIONS SHALL CONFORM TO THE CITY STANDARD SPECIFICATIONS AND DETAIL PLATES.

5. STORAGE OF MATERIALS OR EQUIPMENT SHALL NOT BE ALLOWED ON PUBLIC STREETS OR WITHIN PUBLIC RICHT-OF-WAY.

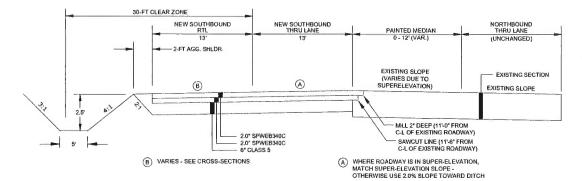
6. NOTIFY CITY AND COON CREEK WATERSHED DISTRICT (COWD) A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

7. ALL ELECTRIC, TELEPHONE, AND GAS EXTENSIONS INCLUDING SERVICE UNIES SHALL BE CONSTRUCTED TO THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS. ALL UTILITY DISSONNECTIONS SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS. ALL UTILITY DISSONNECTIONS SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS. ALL UTILITY DISSONNECTIONS SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS. ALL UTILITY DISSONNECTIONS SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY.

GENERAL NOTES

APPROVED FOR COUNTY TURN LANE ITEMS ONLY DATE ANOKA COUNTY ENGINEER

XYLITE ST NE SOUTHBOUND RIGHT TURN LANE



- NOTES

 1. ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH MINDOT SPECIFICATIONS (LATEST EDITION)

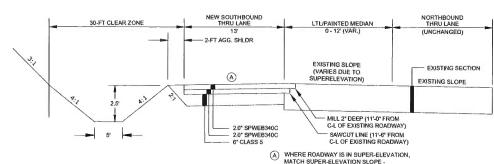
 2. ALL DISTURBED SOIL WITHIN COUNTY RIGHT-OF-WAY MUST BE SEEDED MINDOT 25-141) & MULCHED (TYPE 1, DISC ANCHORED)

 3. USE ALL STRAW FIBER BLANGET FOR DITCH SLOPES OF 3:1 OR GREATER

 4. PAVEMENT MARKINGS SHALL BE EPOXY

 5. CONTRACTOR TO CONTACT ANOKA COUNTY PERMITS SECTION AT (763) 324-3176 TO OBTAIN THE RIGHT-OF-WAY PERMIT.

XYLITE ST NE NORTHBOUND LEFT TURN LANE



SHEET

PLOWE ENGINEERING, INC. 6718 LAKE DRIVE LIITO LAKES, MI 55014 PHONE (651) 361-8701 FAX (651) 361-8701

| 04.10.24 BFZ-# COMMEUS | 2 04.17.24 ADDITIONAL TURRI LANE DETA | 05.82.41 SIGNED | 06.06.24 SIGNED | 0.00.04 BRIGHT TU-| 0.00.24 BRIGHT TU-| 0.00.24 BRIGHT TU-

I hereby or or under or incensed p

(A) WHERE ROADWAY IS IN SUPER-ELEVATION, MATCH SUPER-ELEVATION SLOPE - OTHERWISE USE 2.0%

NOTES

1. ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH MNDOT SPECIFICATIONS (LATEST EDITION)

2. ALL DISTURBED SOIL WITHIN COUNTY RIGHT-OF-WAY MUST BE SEEDED (MNDOT 25-141) & MULCHED (TYPE 1, DISC ANCHORED)

3. USE ALL STRAW FIBER BLANKET FOR DITCH SLOPES OF 3:1 OR GREATER

4. PAYEMENT MARKINGS SHALL BE EPOXY

5. CONTRACTOR TO CONTACT ANOKA COUNTY PERMITS SECTION AT (763) 324-3176 TO OBTAIN THE RIGHT-OF-WAY PERMIT.

& RIGHT TURN LANE PLAN

LEFT

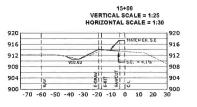
SWEDISH CHAPEL ESTATES HAM LAKE, MN

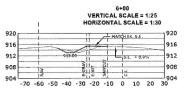
ANOKA COUNTY ENGINEER DATE

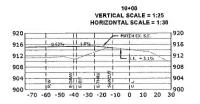
APPROVED FOR COUNTY TURN LANE ITEMS ONLY

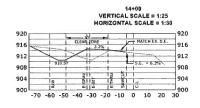
920 916 916 912 908 904 18 904 170 -60 -50 -40 -30 -20 -10 0 10 20 30

920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 |

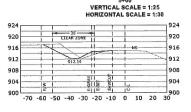


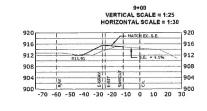


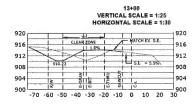




ALL GREEN AREA SLOPES ARE 4:1 UNLESS OTHERWISE NOTED S.E. = SUPER-ELEVATION NS = NOT SUPER-ELEVATED







SWEDISH CHAPEL ESTATES

HAMLAKE, MN

LEFT & RIGHT TURN LANE PLAN

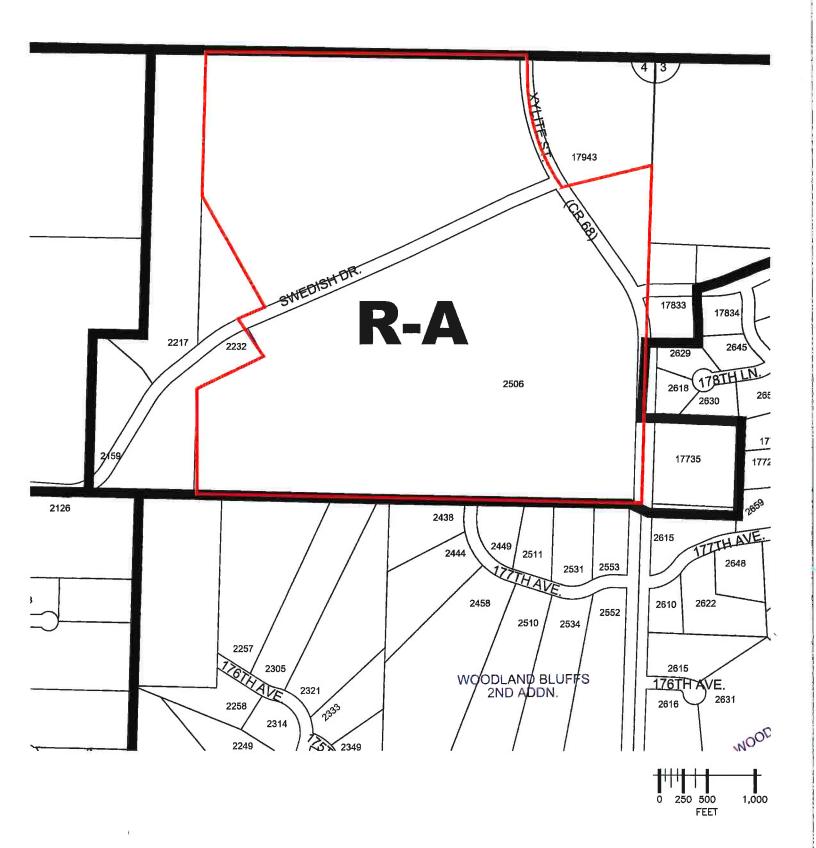
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PLOWE
ENGINEERING, INC.
6776 LAKE DRIVE
SLUTE 110
LING LAKES, MI 55014
PHONE: (851) 381-8701
FAX (851) 381-8701

SITE PLANNING & EXCHIEBTING

SHEET

C4.3





Anoka County TRANSPORTATION DIVISION

Highway

Joseph J. MacPherson, PE County Engineer July 8, 2024

Adam Ginkel Plowe Engineering, Inc. 6776 Lake Dr, Suite 110 Lino Lakes, MN 55014

RE: Swedish Chapel Estates
Anoka County Approval

Dear Mr. Ginkel,

Anoka County has reviewed the Swedish Chapel Estates plan and has no further comments. Your contractor can contact our permits section at 763-324-3176 or HighwayPermits@anokacountymn.gov to obtain the right of way permit.

Sincerely,

Brandon T. Ulvenes Design Engineer

BIT. Ulm

cc: File (Ham Lake) Joe MacPherson, ACHD Jerry Auge, ACHD Sue Burgmeier, ACHD

I:\Eng\Plan Reviews\Ham Lake\2023\Swedish Chapel Estates (Stalberger)\ACHD Approval (07-08-24).docx

PERMIT AMENDMENT

COON CREEK WATERSHED DISTRICT 13632 Van Buren St NE Ham Lake, MN 55304

Project:

Swedish Chapel Estates

Issued To:

MN Developments, LLC Attn; Jeff Stalberger

Attn; Jeff Stalberger 17404 Ward Lake Dr NW Andover, MN 55304

Location:

2506 Swedish Dr NE, Ham Lake MN

Permit Application #: P24-014

Purpose:

Construction of a single family home residential development and associated

stormwater treatment features.

This letter is in response to the 7/29/2024 submittal from Plowe Engineering Inc., providing updated construction plans for the work of the below referenced project.

BACKGROUND:

CCWD authorized, as part of CCWD permit #2378 issued 7/11/2024, the construction of a single family home residential development and associated stormwater treatment features.

On July 11, 2024, updated construction plans and geotechnical report were submitted for review and approval.

FINDINGS

1. The updated construction plans and geotechnical report received 7/29/24 and dated 7/29/24 and 7/25/24 have been reviewed and meet the CCWD standards.

CONCLUSIONS

Coon Creek Watershed Permit #2378 is hereby amended and expires 7/11/2025 with the following conditions and stipulations:

1. Adherence to all general permit conditions of permit #2378.

If you have questions, please call me at 763-755-0975,

Sincerely,

District Administrator

Cc:

Tim k

File P24-014

Eileen Weigel, Stantec

Tom Collins, City of Ham Lake

David Krugler

From:

Emanuel, Mary E < mary_emanuel@fws.gov>

Sent:

Wednesday, June 12, 2024 7:53 AM

To:

David Krugler

Subject:

Re: [EXTERNAL] RE: Eagle's Nest - 2506 Swedish Drive- Ham Lake MN

Hi David,

Try not to think about it in super ridged terms, as long as you're more than 100' away for this project, I think take is very unlikely to occur. If the nest becomes active during the next breeding season, we can revisit things and see if a permit would be recommended. Sometimes it is possible to do the work closest to the nest sooner while it is inactive so that, if it is occupied in the next breeding season, work is at 200' away and moving out rather than at 200' and moving closer.

The disturbance I described as resulting in "parents abandoning a nest" is just one example. Regulations further define "disturb" as "to agitate or bother a bald or golden eagle to a degree that causes, or is likely to cause, based on the best scientific information available, 1) injury to an eagle, 2) a decrease in its productivity, by substantially interfering with normal breeding, feeding, or sheltering behavior, or 3) nest abandonment, by substantially interfering with normal breeding, feeding, or sheltering behavior".

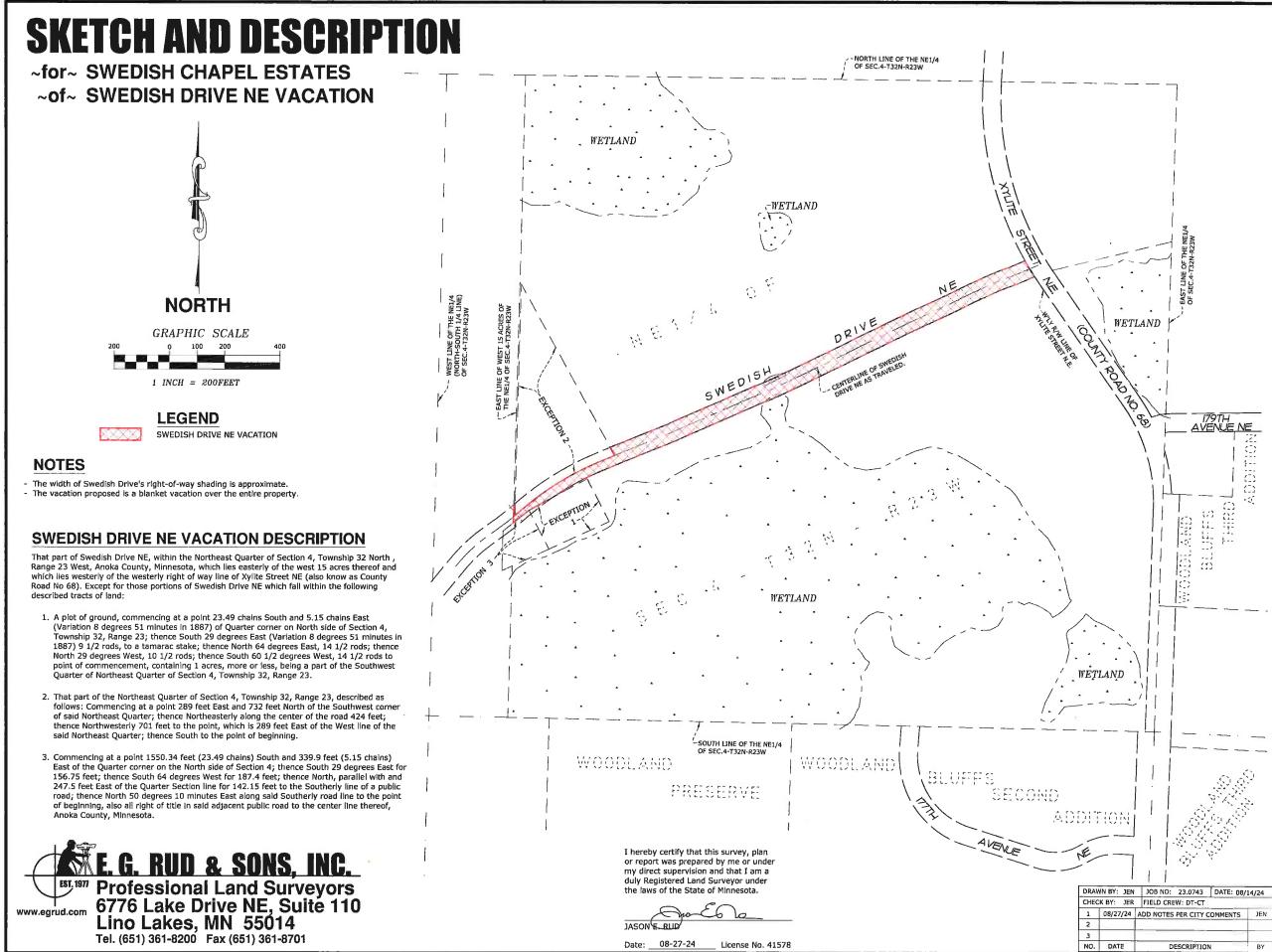
The penalty for violating the Bald and Golden Eagle Protection Act can result in a fine of \$100,000 (\$200,000 for organizations), imprisonment for one year, or both, for a first offense. Penalties increase substantially for additional offenses, and a second violation of this Act is a felony. So it can be quite significant.

Currently, the nest you described to me sounds like it was not used this year. The 100' minimum buffer is recommended to protect the nest tree just as much as the eagles. No, the disturbance permits are not mandatory, we recommend them when it is possible that a project could result in take. Very close distances like the ones involved here, mean we would always recommend a permit (i.e. closer than 100'). Nests are generally assumed to be inactive for the year if not occupied by April 15th but if an eagle pair shows up on April 17th and decides to try and raise chicks, that nest will be active for the year, even if it doesn't end up being successful.

10 days after the last eagle chick leaves the nest, the brood is considered to have fledged. The status of the nest doesn't really change once the chicks fledge, we would say it is active in the current breeding season. Active vs inactive can get a little nitpicky depending on what the question is. A nest might be currently inactive for this breeding season but if it has been used in the last few years it could also be thought of as being generally active. It's a little splitting hairs at that point. Our General Permits are coming on line very soon. They should be available to apply for starting July 8th (possibly sooner), and will have an effective date of 9/1 and be valid for one year through 8/31. Let me know if you have any further questions.

Thank you,

Mary Emanuel
Wildlife Biologist, Permitting
USFWS, Region 3, Migratory Birds Permit Office
5600 American Blvd. W, Suite 990
Bloomington, MN 55437
(612) 713-5441
Mary Emanuel@fws.gov



SKETCH AND DESCRIPTION ~of~ TRAIL EASEMENT **NORTH** 6 GRAPHIC SCALE 5 BOTHLANE 1 INCH = 100FEET UPBANK 3 **LEGEND** DENOTES TRAIL EASEMENT (TOTAL TRAIL EASEMENT AREA = 36,256 S.F.) O T R TH 2 10 3 W Z NE COOUNTY POT DRIVE SWEDISH OUTLOT Â 0 P 0 2 STREET 3 2 2 URBANK 179TH AVENUE NE 41 3 OTREET 8 179TH AVENUE NE 5 5 25.00 6 2 10 6 Ø 25.00---15.00---O, Z 0 ব 0 2 Ω CCOUNT 8

NOTES

- The plat of SWEDISH CHAPEL ESTATES is not of record at this time.



TRAIL EASEMENT DESCRIPTION

J2BANK

10

A perpetual easement for trail purposes over and across the southwesterly 15.00 feet of the northeasterly 25.00 feet of Lots 1, 3, 4, 5 and 6, Block 1; the westerly 15.00 feet of the easterly 25.00 feet of Lots 7 through 9, Block 1; and the westerly 15.00 feet of the easterly 25.00 feet of Lots 1, 3 and 4, Block 3, all in SWEDISH CHAPEL ESTATES, Anoka County, Minnesota.

STREET

1.

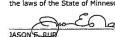
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YLITE S

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15.00---25.00---

> I hereby certify that this survey, plan or report was prepared by me or under my direct supervision and that I am a duly Registered Land Surveyor under the laws of the State of Minnesota.



Date: 8-27-2024 License No. 41578

DRAWN BY: JEN		JOB NO: 230743PP DATE:	08/05/24
CHE	K BY: JER	FIELD CREW:DT-CT	
1	08/27/24	REV. DESC. AND TYPO	JEN
2			
3			
NO.	DATE	DESCRIPTION	BY

5:\RUD\CAD\23PROJ\250743PP\230743PP-YRAIL-EASE I