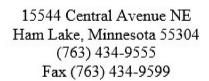
CITY OF HAM LAKE



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 of 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:

Joseph Radach of Contour Development LLC, requesting Sketch Plan approval for Elwell 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 questioned 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 not 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. 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 Basser
Date of Application	Date of 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
Final Plat Approval	Conditional Use Permit (New)*
Rezoning*	Conditional Use Permit (Renewal)
Multiple Dog License*	Other
	use alterations and future road connections. This oring. Such fees shall be deducted from deposit.
Development/Business Name:/\(\int\)	Developments LLC-Swedish Chape
Address/Location of property: ১ we ১ ্রে	, Drive and Xylite
Legal Description of property:	(a
PIN # - 04-32-23-14-0001 Curi	rent Zoning <u>RA</u> Proposed Zoning <u>R</u>
Notes: 47 Single family lots	and three collets
Applicant's Name: Jeff Stalb	
Business Name: MN Developme	ents LLC
Address 17404 Ward L	
	State MN Zip Code 55304
Phone 6127991471 Cell Phone	6127991471 Fax
Email address Stally 68 2 msn.	
	required by Minnesota Statutes Chapter 15.99 does
not begin to run until <u>all</u> of the required items h	nave been received by the City of Ham Lake,
SIGNATURE 3	DATE 8/16/24
*******************	*********************
- FOR STAF	FF 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:

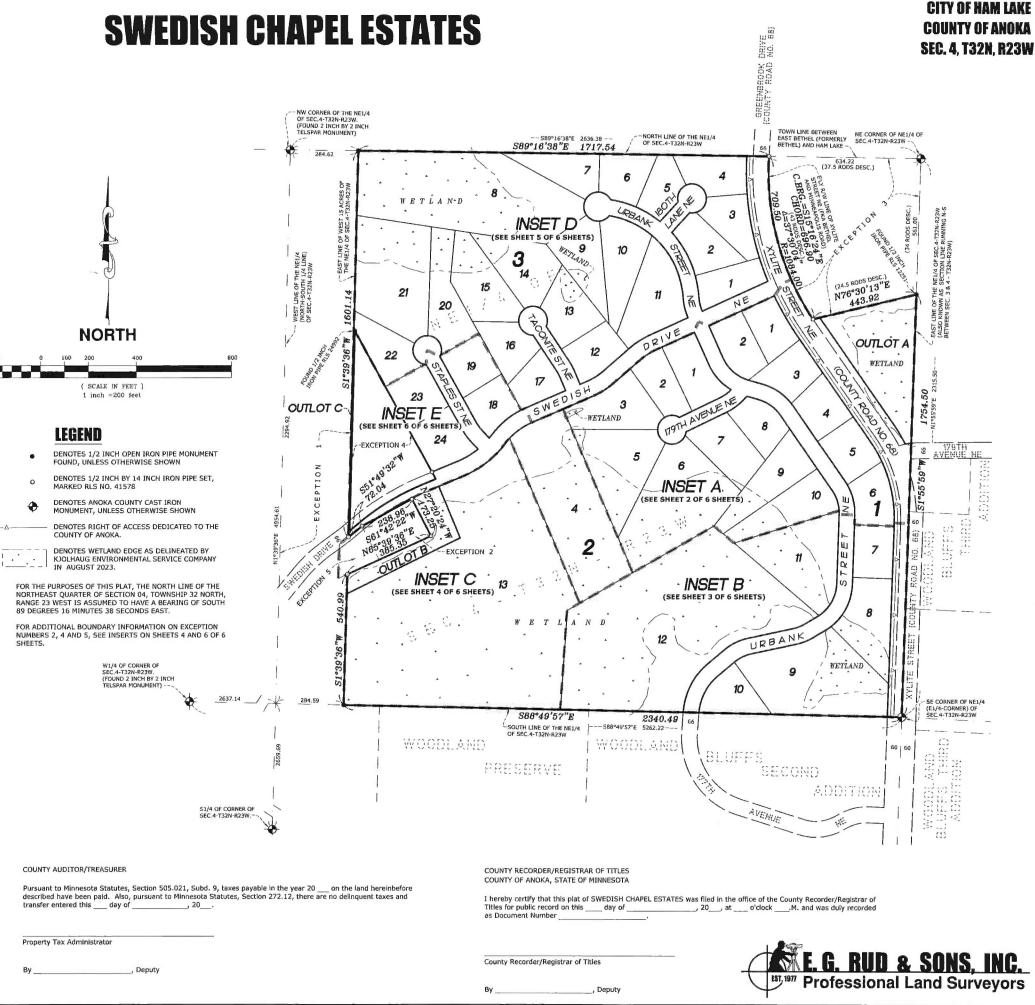
The Northeast Quarter of Section 4, Township 32, Range 23, excepting the following described tracts of land:

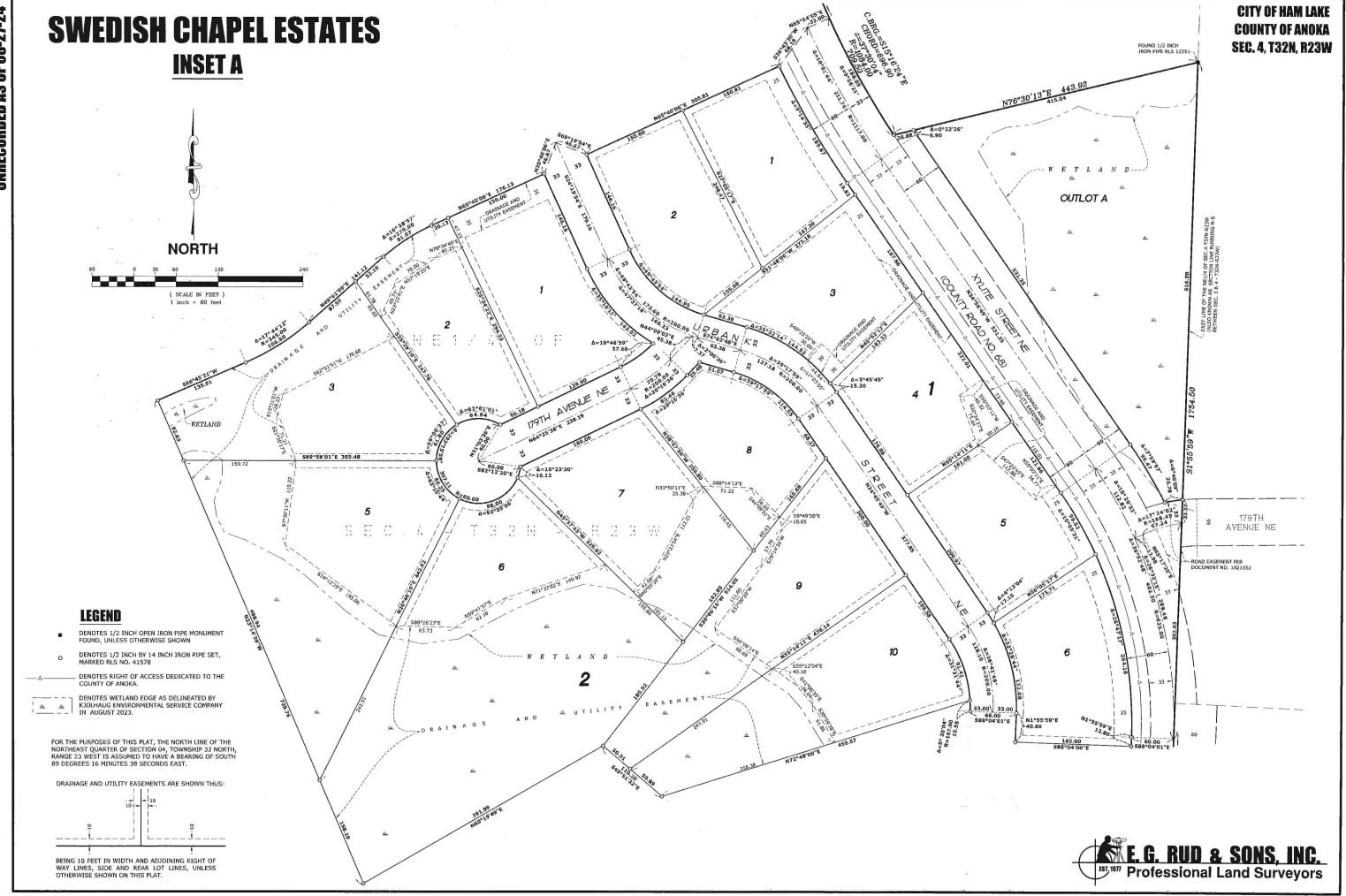
- The West 15 acres of the said Northeast Quarter of Section 4, Township 32, Range 23, heretofore sold and deeded to the Swedish Lutheran Society.
- 2. A plot of ground, commencing at a point 23.49 chains South and 5.15 chains East (Variation 8 degrees 51 minutes in 1887) of Quarter corner on North side 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 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 Northeast 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 ast 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.

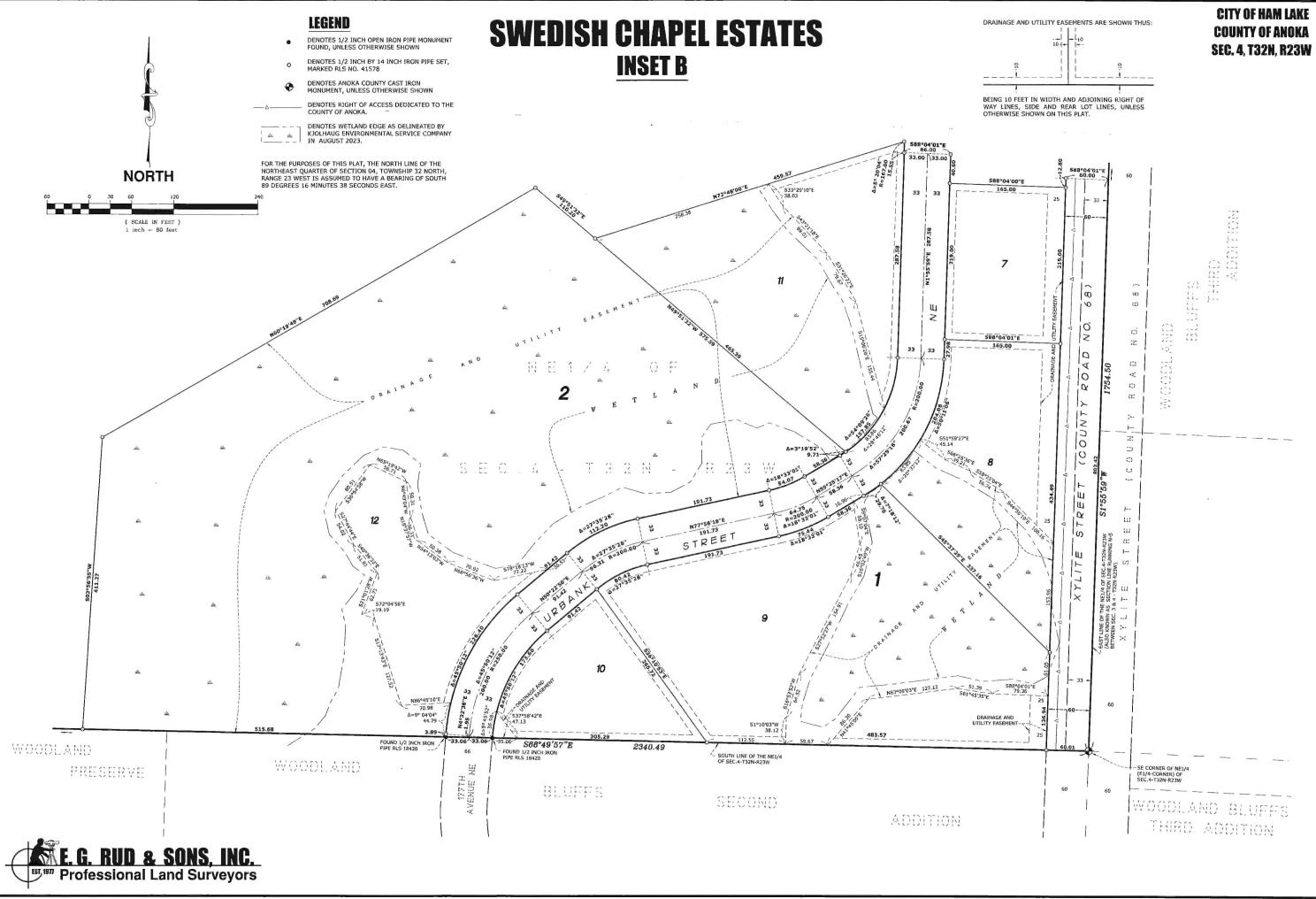
Has caused the same to be surveyed and platted as SWEDISH CHAPEL ESTATES and does hereby dedicate to the public for public use the public ways and the drainage and utility easements as shown on this plat. Also dedicating to the County of Anoka the right of access onto County Road No. 68 as shown on this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

Jeffrey A. Stalberger, Co-Administrator	
Jenrey A. Stalberger, Co-Administrator	
STATE OF	
COUNTY OF	
This instrument was acknowledged before me th Co-Administrator of MN Developments LLC, a Mi	ils day of, 20 by Jeffrey A. Stalberge nnesota limited liability company.
	(Signature)
Notary Public, County, Minneson	(Print Name)
My Commission ExpiresCounty, Millineson	
	at all water boundaries and wet lands, as defined in Minnesota Stai ertificate are shown and labeled on this plat; and all public ways ar
Dated this day of, 20	,
Jason E. Rud. Licensed Land Surveyor	
Jason E. Rud, Licensed Land Surveyor Minnesota License No. 41578	
Minnesota License No. 41578	
Minnesota License No. 41578 STATE OF MINNESOTA	
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Minnesota License No. 41578 STATE OF MINNESOTA COUNTY OF This instrument was acknowledged before me th Notary Public, County, Minneson My Commission Expires CITY COUNCIL, CITY OF HAM LAKE, MINNESOTA This plat of SWEDISH CHAPEL ESTATES was app Minnesota at a regular meeting thereof held this with the provisions of Minnesota Statutes, Section City Council, City of Ham Lake, Minnesota	(Signature) (Print Name) ta proved and accepted by the City Council of the City of Ham Lake, iday of, 20, and said plat is in complian 505.03, Subd. 2.
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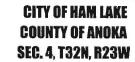
Anoka County Surveyor

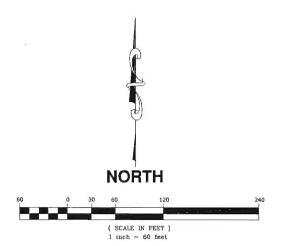






SWEDISH CHAPEL ESTATES INSET C





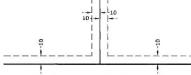
LEGEND

- 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

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

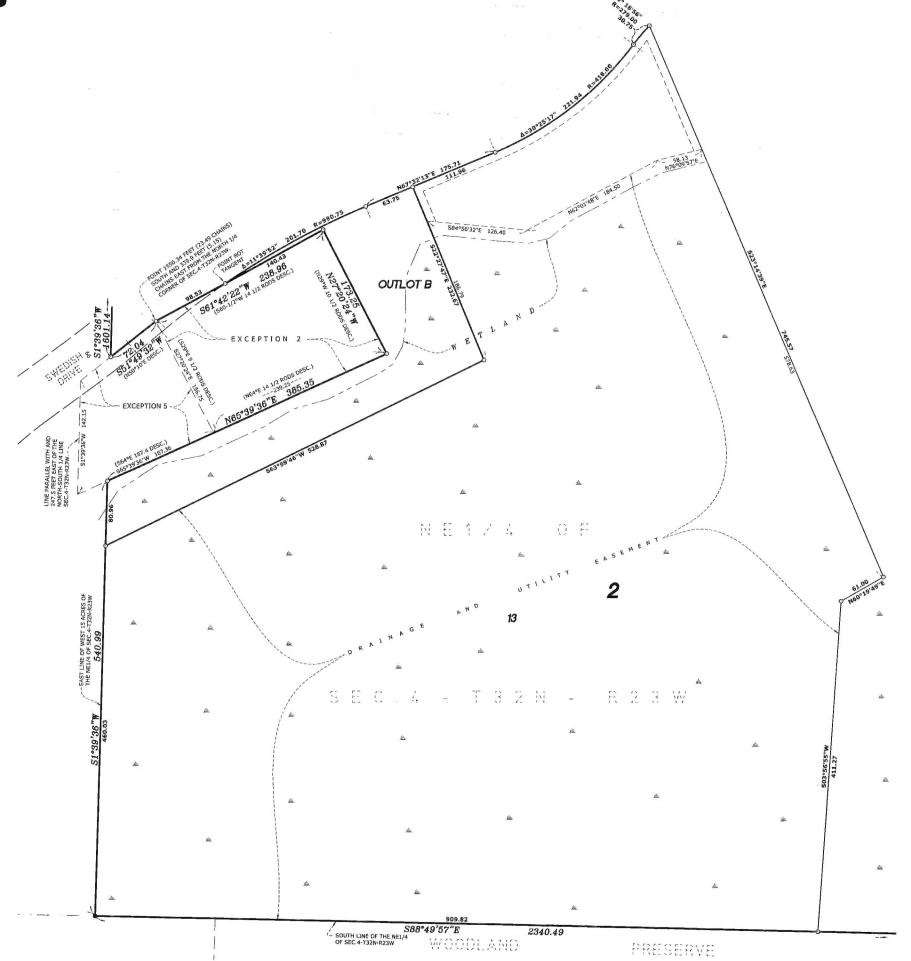
FOR THE PURPOSES OF THIS PLAT, THE NORTH LINE OF THE NORTHEAST QUARTER OF SECTION 04, TOWNSHIP 32 NORTH, RANGE 23 WEST IS ASSUMED TO HAVE A BEARING OF SOUTH 89 DEGREES 16 MINUTES 38 SECONDS EAST.

DRAINAGE AND UTILITY EASEMENTS ARE SHOWN THUS:

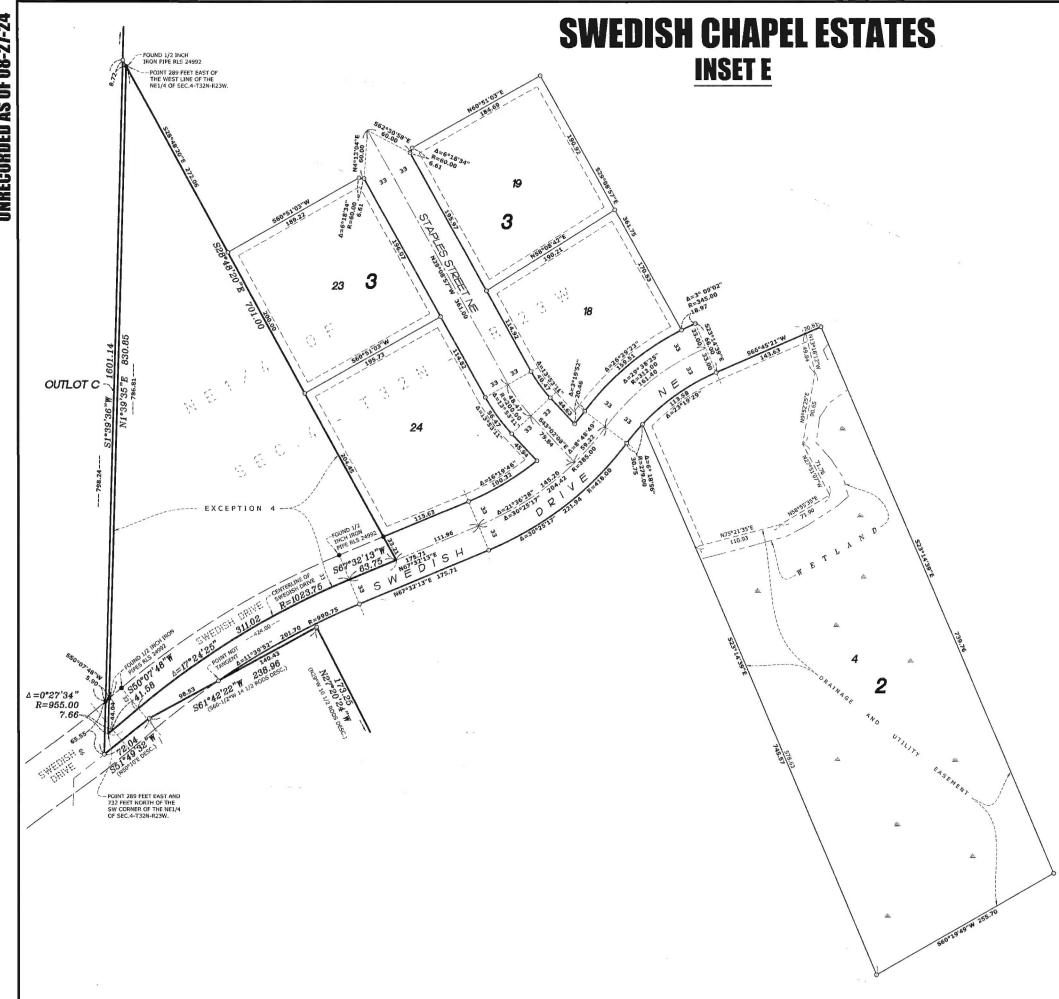


BEING 10 FEET IN WIDTH AND ADJOINING RIGHT OF WAY LINES, SIDE AND REAR LOT LINES, UNLESS OTHERWISE SHOWN ON THIS PLAT.

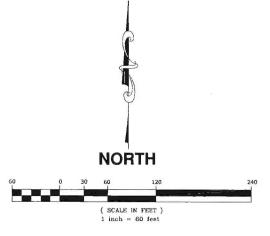




OUTET FOR A QUEETO



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



LEGEND

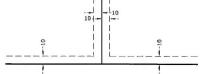
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<u> 46 46</u>

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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



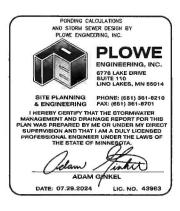
ANOKA COUNTY, MINNESOTA (NO SCALE)

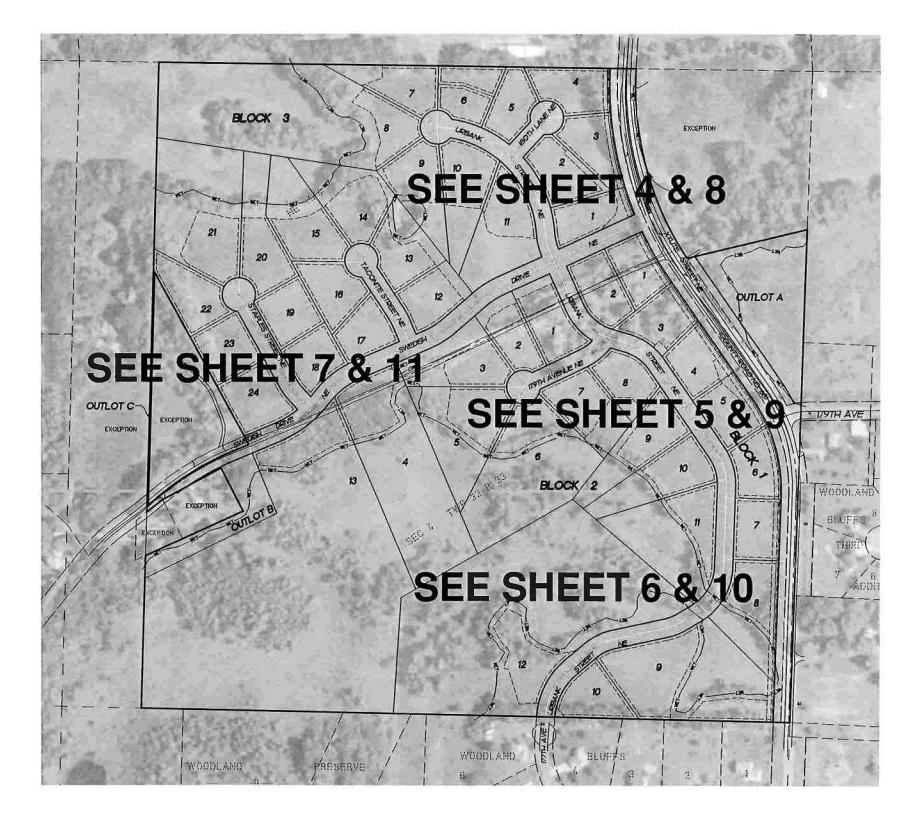
SHEET INDEX

C4.1 - C4.3

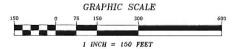
T1 TITLE SHEET PRELIMINARY PLAT 2-3 **GRADING PLAN** 4-7 8-11 LIVABILITY PLAN LIVABILITY CHART 12-14 **REMOVALS PLAN** C1.1 - C1.8 STREET AND UTILITY PLANS C2.1 - C2.2 STORMWATER POLLUTION PREVENTION PLAN C3.1 - C3.3 **DETAILS**

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.

,	Dro-El	De
JASON	E. RUD	
Date	07/29/2024	License No. 41579

DRA	WN BY: MMD	JOB NO: 230743 DATE: 03/	20/24
CHE	CK BY: JER	FIELD CREW: DT/CT	
1	04/08/24	VICINITY MAP	MMD
2	04/17/24	CITY COMMENTS	MMD
3	05/22/24	CITY COMMENTS	MME
4	06/25/24	TRAIL EASEMENT / XYLLTE LOTS	MMD
5	07/29/24	GEO. REPORT / FLOORS	MMD
NO.	DATE	DESCRIPTION	BY

NORTH

PRELIMINARY PLAT ~of~ SWEDISH CHAPEL ESTATES ~for~ MN DEVELOPMENTS, LLC. 17404 WARD LAKE DRIVE NW ANDOVER, MN 55304 (612) 799-1471 NORTH EAST BETHEL CITY LIMITS PREBO 33-13-23-44 CROS NORTH LINE OF NORTHEAST QUARTER OF SECTION 4 TOWNSHIP 32, RANGE 23 NORTH CORNER 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. (6.28 ACRES) NOTES 56,704 S.F. (1.30 ACRES) 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 OWNER: JOAN A DOSEDEL 57,014 S.F. (1:31 ACRES) Legal description per title commitment prepared by Chicago Title Insurance dated 9/7/2023 Commitment No. 230943680. 20 65,387 S.F. BLOCK 48,312 S.F. **DEVELOPMENT DATA** 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 NOW) 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 W BY TOFICE DENOTES ANOKA COUNTY CAST IRON MONUMENT DENOTES IRON MONUMENT FOUND DENOTES EXISTING CONTOURS (2' INTERVAL) **PROPERTY DESCRIPTION** DENOTES ORAINAGE AND LITELITY EASEMENT DENOTES BUILDING SETBACK LINE DENOTES RESTRICTED ACCESS DENOTES WETLAND LINE DELINEATED BY KJOLHAUG ENVIRONMENTAL SERVICES INC. DENOTES WETLAND BUFFER LINE The Northeast Quarter of Section 4, Township 32, Range 23, excepting the following described tracts of land: 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, DENOTES WETLAND FILL 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 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 Raine 23 at a point on said Section line a 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 DENOTES ADJACENT PARCEL OWNER INFORMATION 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. Northeast Quarter of Northeast Quarter of Section 4, Township 32, Range 23, containing about 7 acres. GRAPHIC SCALE E.G. RUD & SONS, INC.

Ano-El la

Date: 07/29/2024 License No. 41578

1 INCH = 100FEET

Professional Land Surveyors

Lino Lakes, MN 55014 Tel. (651) 361-8200 Fax (651) 361-8701

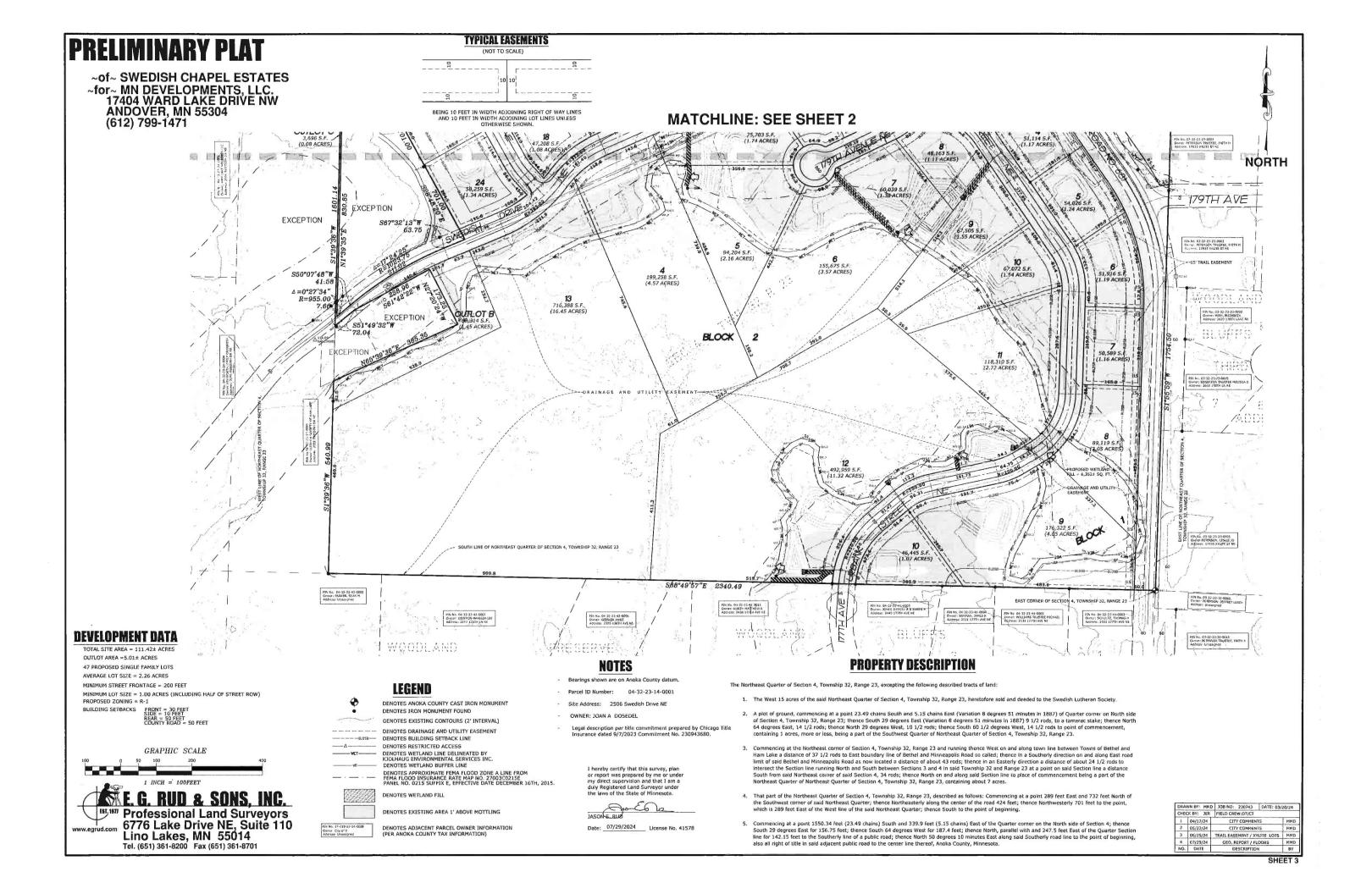
6776 Lake Drive NE, Suité 110

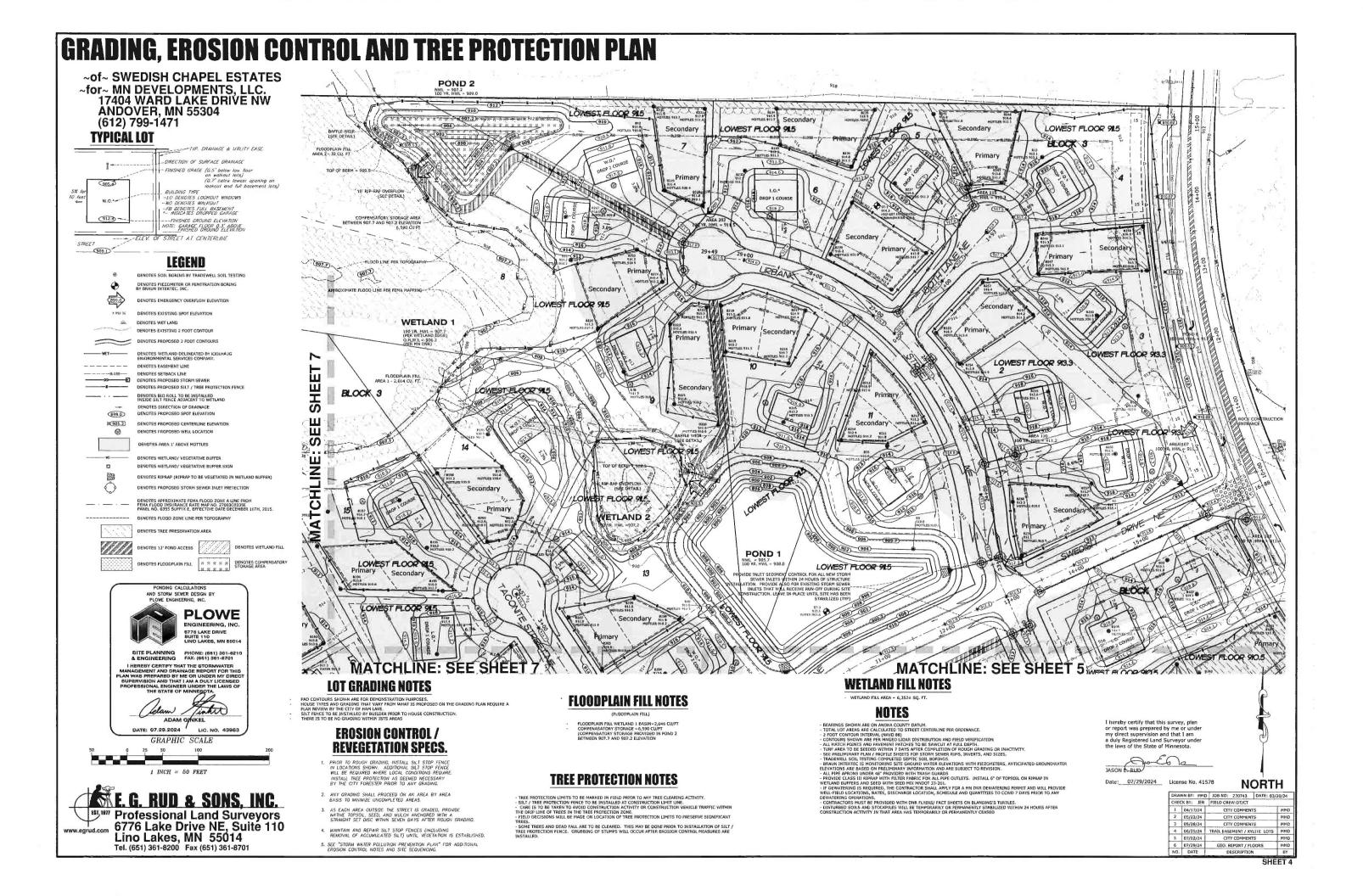
4. That part of the Northeast Quarter of Section 4, Township 32, Range 23, described as follows: Commencing at a point 289 feet East and 732 feet North of the Southwest corner of said Northeast Quarter; thence Northeasterly along the center of the road 424 feet; thence Northwesterly 701 feet to the point, which is 289 feet East of the West line of the said Northeast Quarter; thence South to the point of beginning.

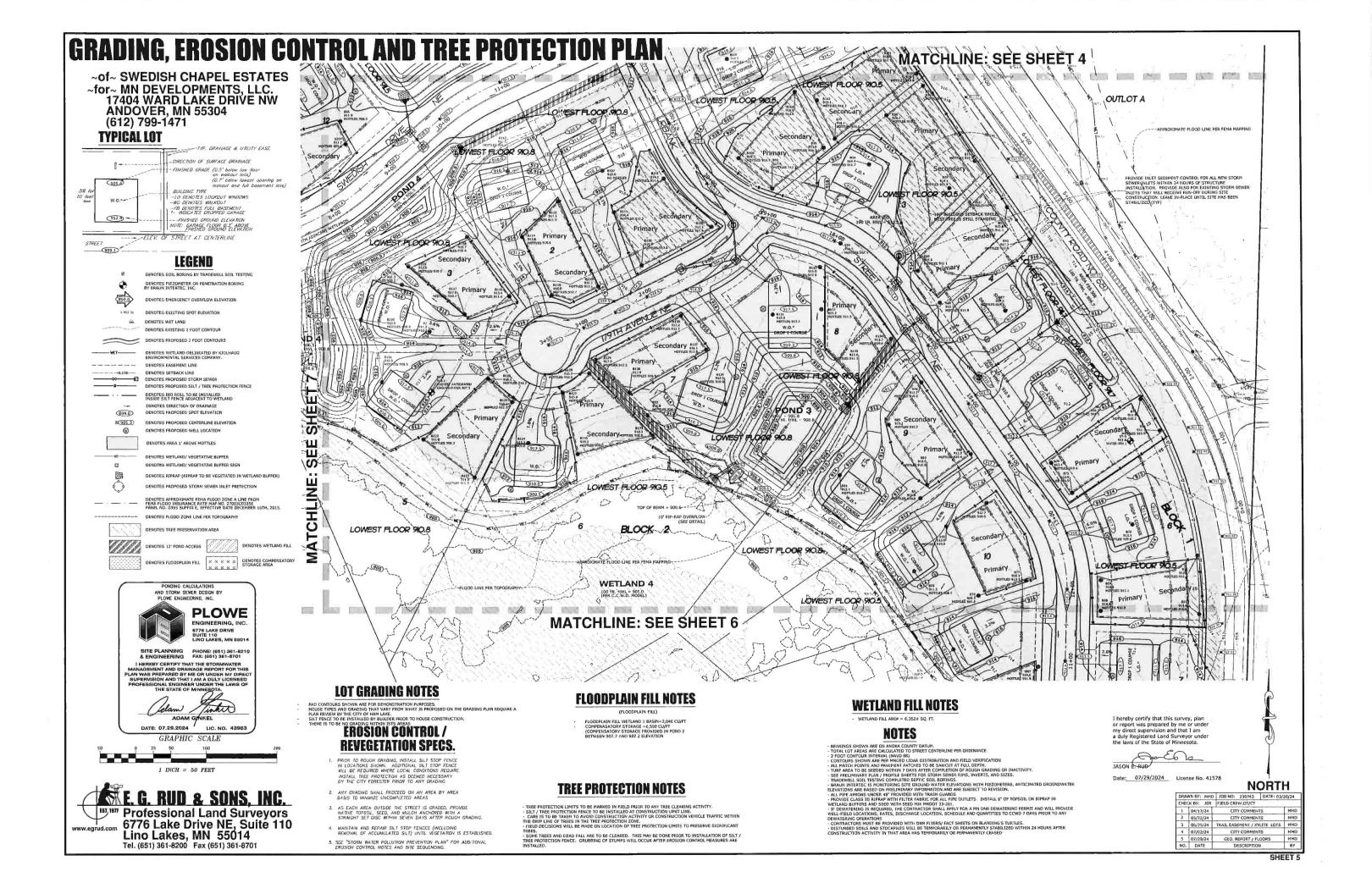
Commencing at a point 1550.34 feet (23.49 chains) South and 339.9 feet (5.15 chains) East of the Quarter corner on the North side of Section 4; thence South 29 degrees East for 156.75 feet; thence South 64 degrees West for 187.4 feet; thence North, parallel with and 247.5 feet East of the Quarter Section 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.

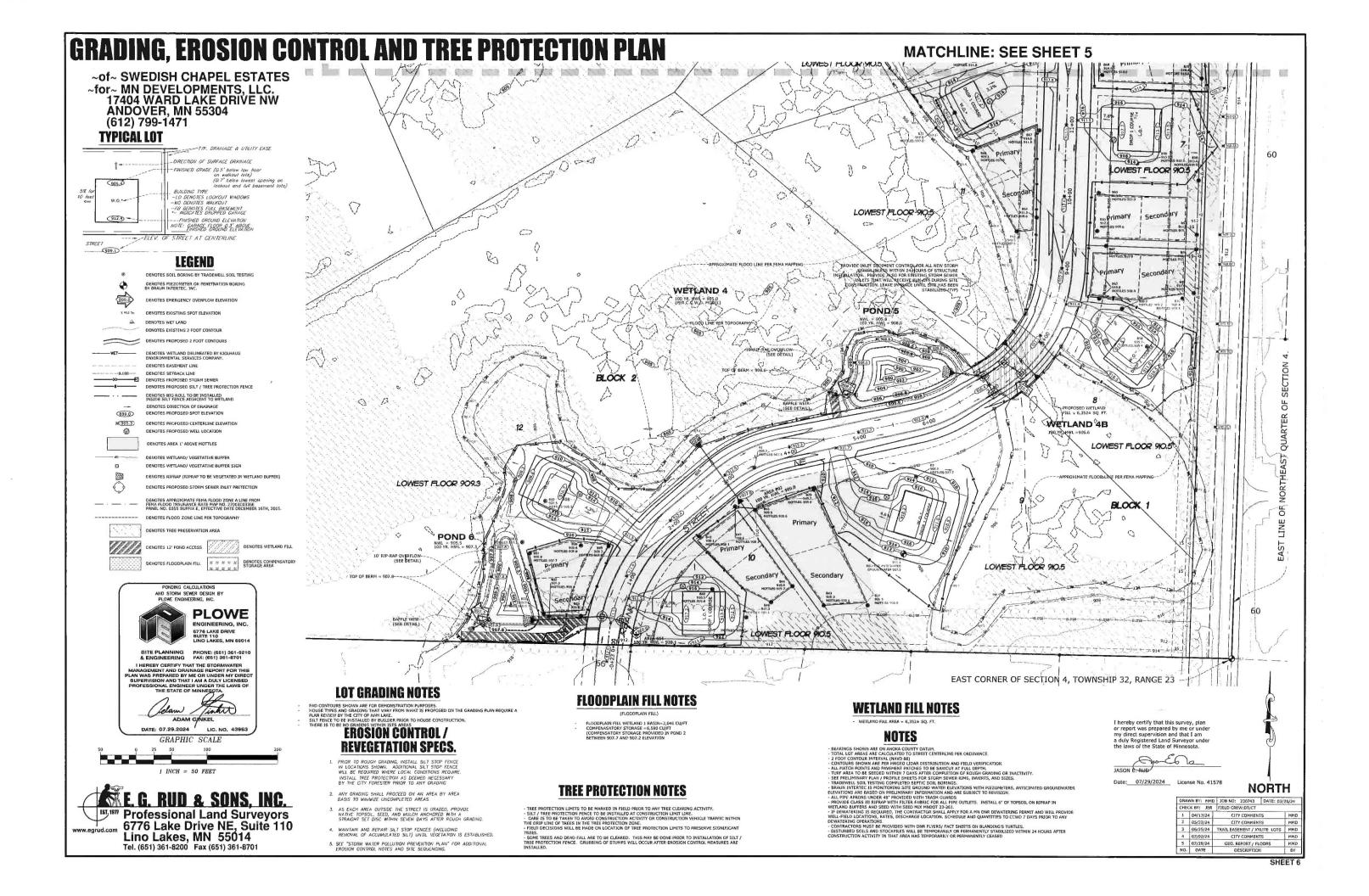
CITY COMMENTS MMD
CITY COMMENTS MMD
TRAIL EASEMENT / XYLITE LOTS MMD
GEO. REPORT / FLOORS MMD
DESCRIPTION BY

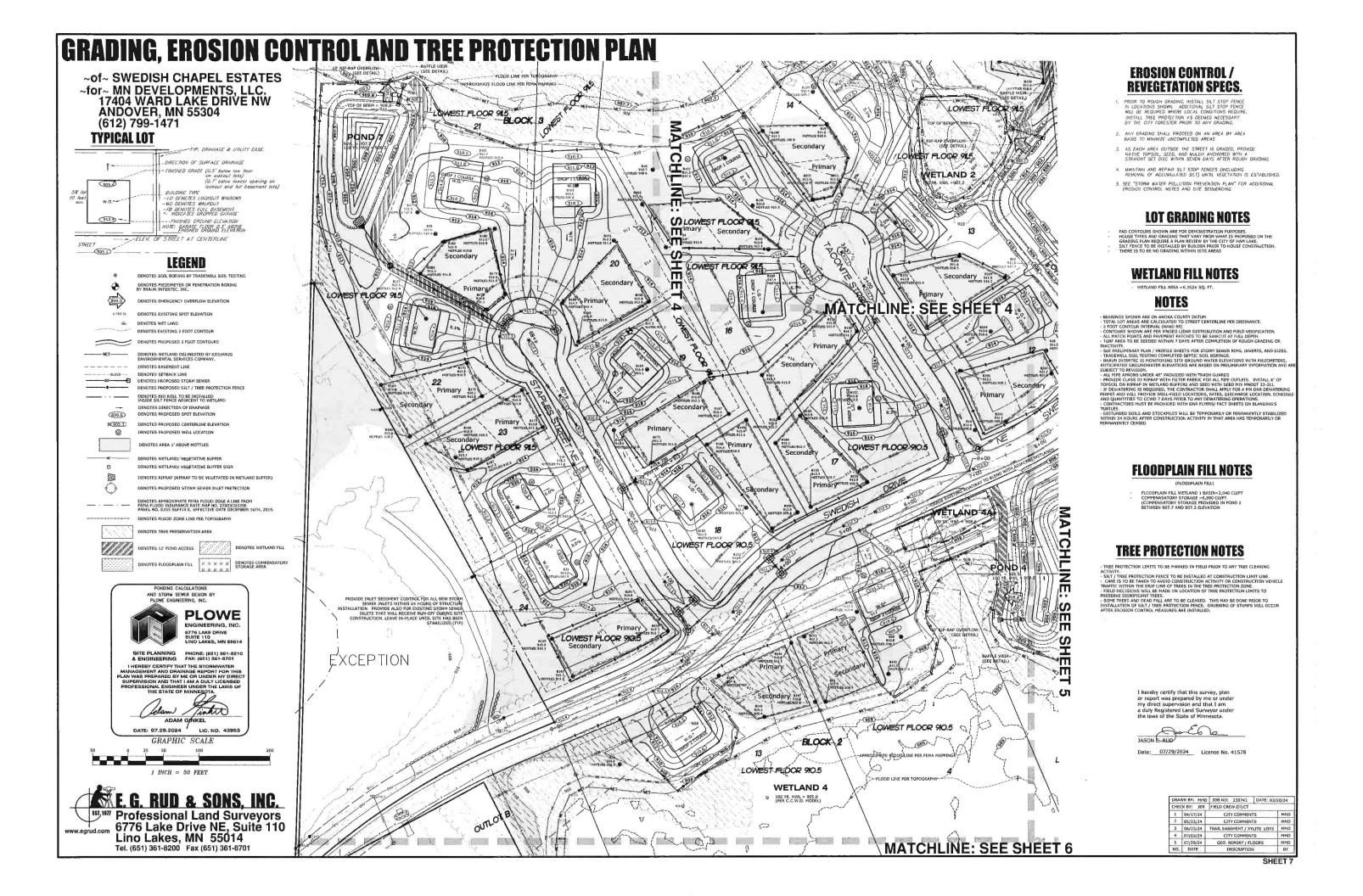
04/17/24











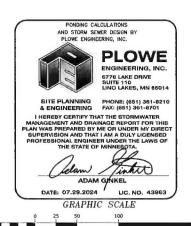
LIVABILITY PLAN

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

LEGEND

DENOTES SOIL BORING BY TRADEWELL SOIL TESTING DENOTES PIEZOMETER OR PENETRATION BORING BY BRAUN INTERFEC, INC. DENOTES EXISTING SPOT ELEVATION DENOTES WET LAND DENOTES EXISTING 2 FOOT CONTOUR DENOTES PROPOSED 2 FOOT CONTOURS DENOTES EASEMENT LINE DENOTES SETBACK LINE DENOTES PROPOSED STORM SEWER DENOTES PROPOSED SILT / TREE PROTECTION FENCE DENOTES DIRECTION OF DRAINAGE DENOTES PROPOSED WELL LOCATION DENOTES WETLAND/ VEGETATIVE BUFFER SIGN DENOTES PROPOSED YARD AREA DENOTES PROPOSED SEPTIC AREA

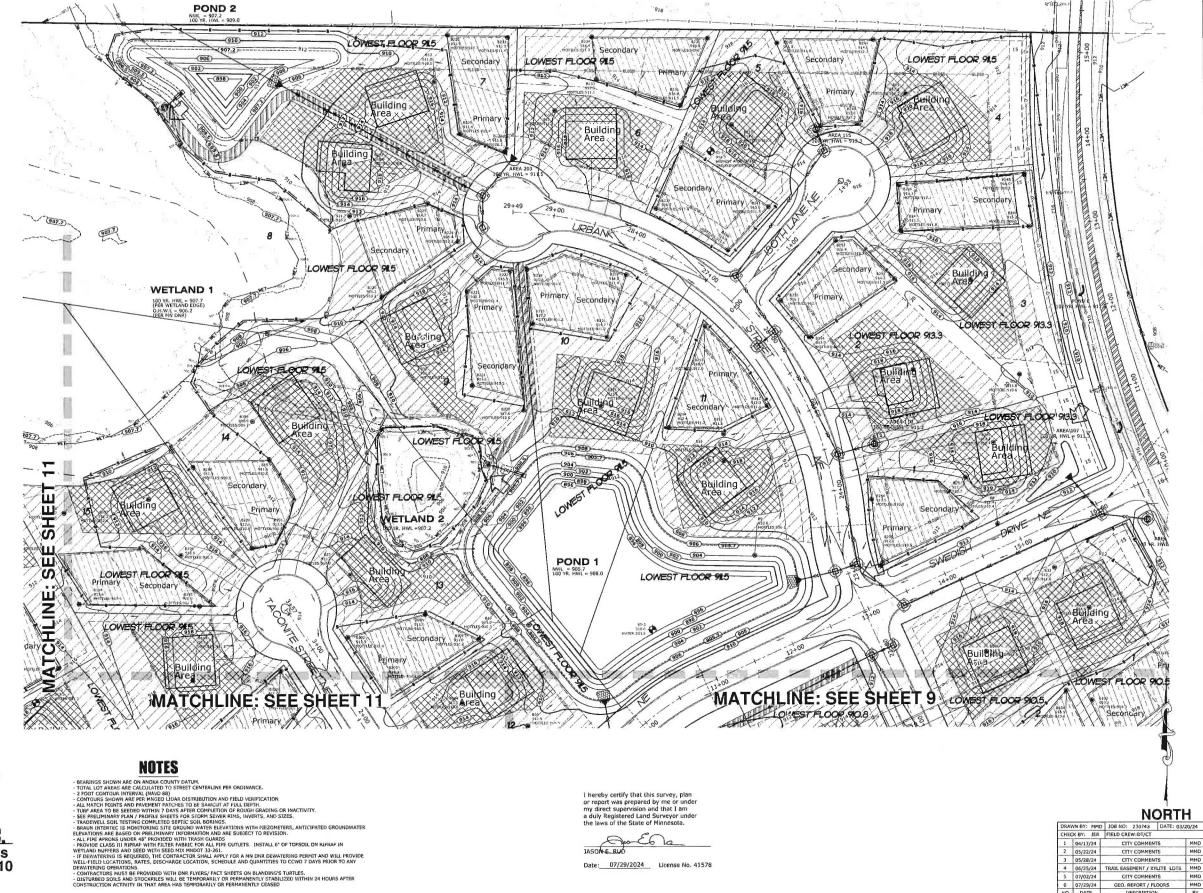
DENOTES 12' POND ACCESS



E.G. RUD & SONS, INC.

1 INCH = 50 FEET

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



Date: 07/29/2024 License No. 41578

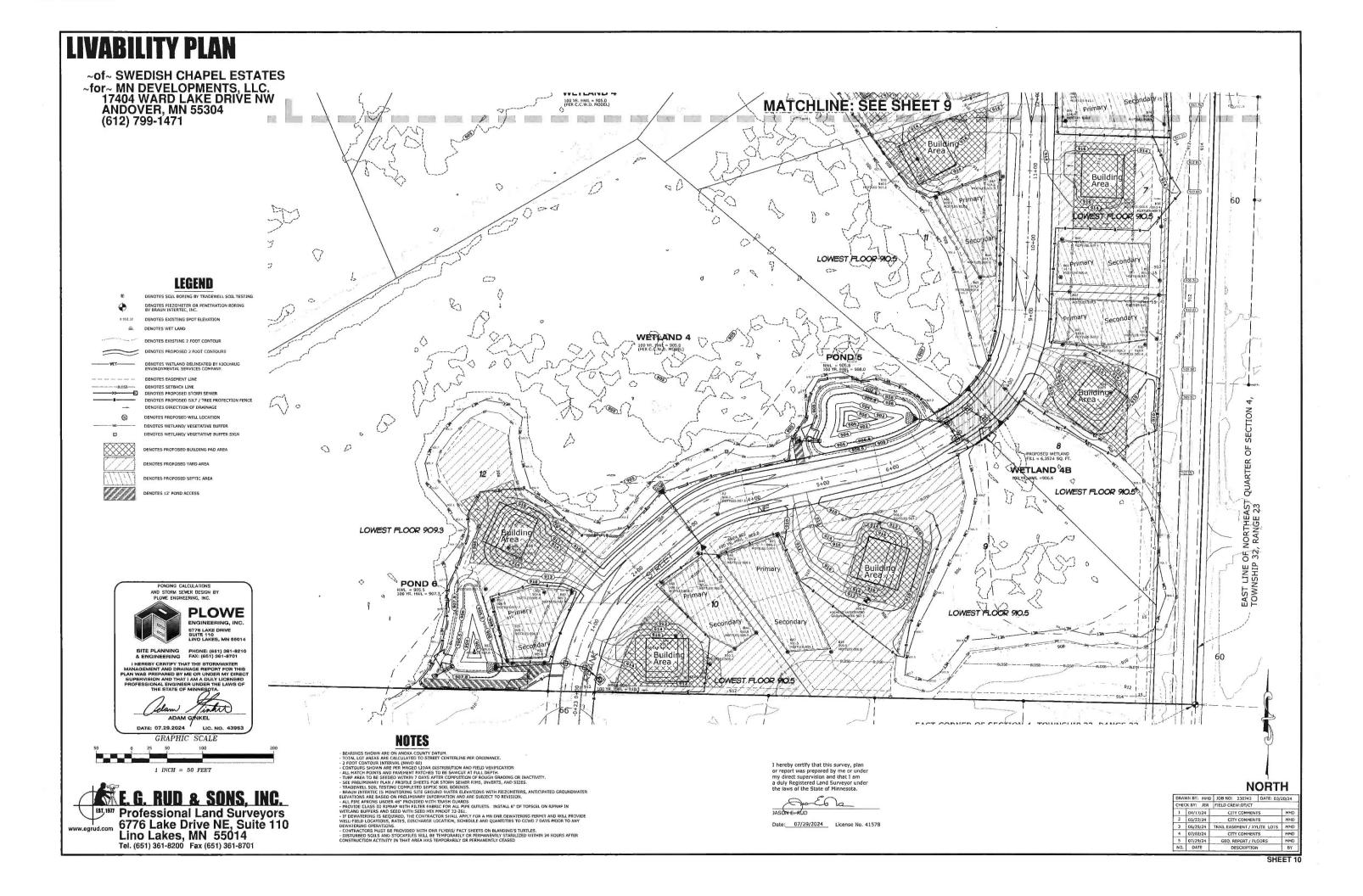
CITY COMMENTS

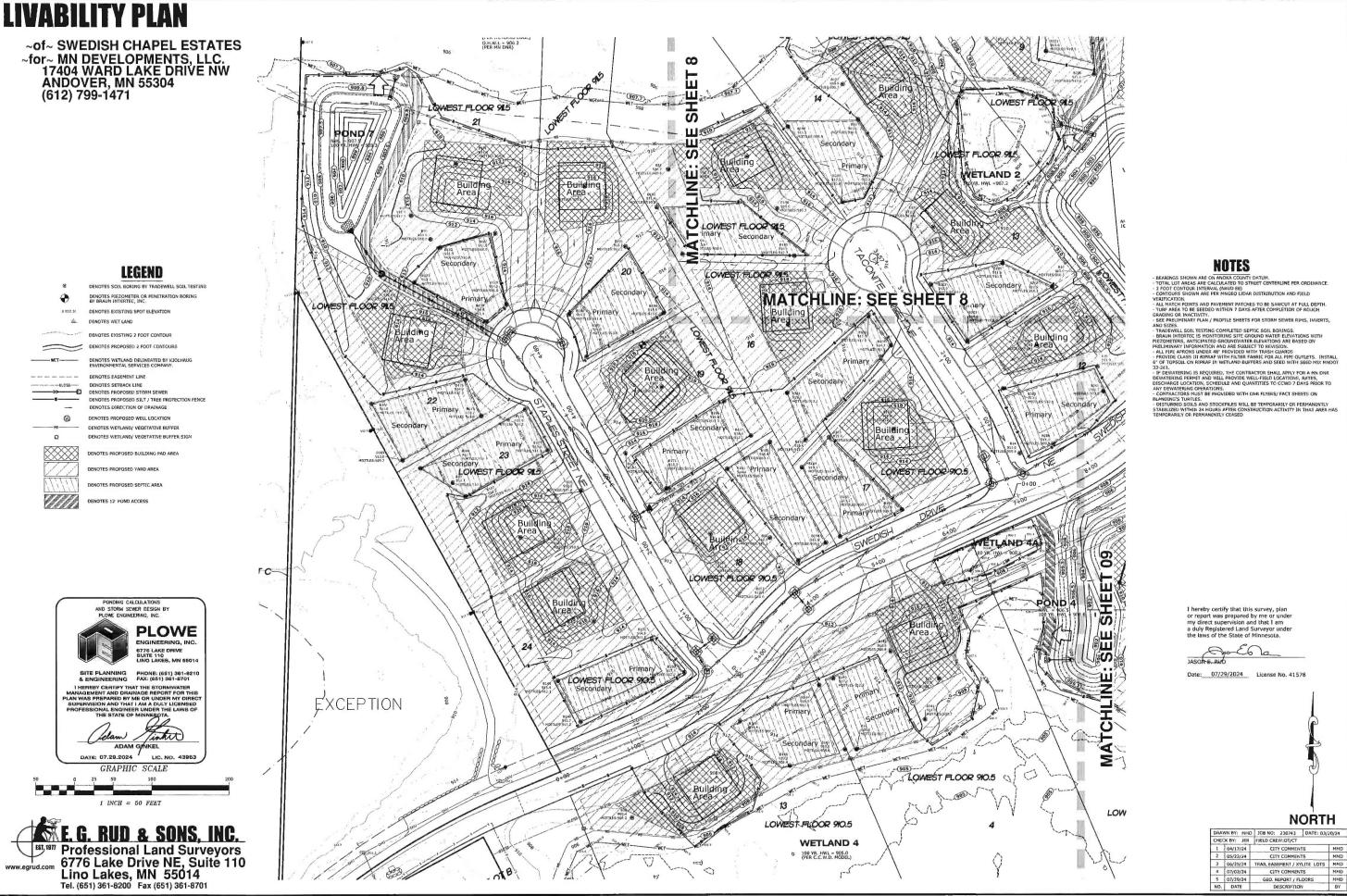
918

~of~ SWEDISH CHAPEL ESTATES ~for~ MN DEVELOPMENTS, LLC. 17404 WARD LAKE DRIVE NW ANDOVER, MN 55304 MATCHLINE: SEE SHEET (612) 799-1471 LOWEST FLOOR 910.5 LOWEST PLOOP 9105, OUTLOT A OMEST FLOOP 908 WEST FLOOR ROS LEGEND DENOTES PROPOSED 2 FOOT CONTOURS DENOTES EASEMENT LINE DENOTES SETBACK LINE DENOTES PROPOSED STORM SEWER DENOTES PROPOSED SILT / TREE PROTECTION FENCE DENOTES DIRECTION OF DRAINAGE DENOTES PROPOSED WELL LOCATION LOWEST FLOOR 900 DENOTES WETLAND/ VEGETATIVE BUFFER DENOTES WETLAND/ VEGETATIVE BUFFER SIGN POND 3 SEE Building MATCHLINE: LOWEST FLOOD 90.5 LOWEST FLOOR 910.8 BLOCK 2 LOWEST FLOOR 910.8 **PLOWE** LOWEST FLOOR 90.5 WETLAND 4 100 YR. HWL = 905.0 (PER C.C.W.D. MODEL) LOWEST FLOOR 90.5 SITE PLANNING PHONE: (651) 361-8210 & ENGINEERING FAX: (651) 361-8701 MATCHLINE: SEE SHEET 10 DATE: 07.29.2024 LIC. NO. 43963 **NOTES** GRAPHIC SCALE - BEARINGS SHOWN ARE DIX ANDKA COUNTY DATUM. - TOTAL LOT AREAS ARE CALCULATED TO STREET CENTERLINE PER ORDINANCE. - FOOT CONTOUR INTERVAL (ANDVO 88) - CONTOURS SHOWN ARE PER MAGEO LIDAR DISTRIBUTION AND FIELD VERIFICATION - ALL MATCH POINTS AND PAVEMENT PATCHES TO BE SAWCUT AT PULL DEFTH. - TUBF AREA TO BE SEEDED WITHIN 7 DAYS AFTER CONNECTION OF ROUGH GRADING OR INACTIVITY. - SEE PRELIMINARY PLAN / PROFILE SHEETS FOR STORM SEWER RINS, INVERTS, AND SIZES. - TRADEWELL SOIL TESTING COMPLETED SEPTIC SOIL BORINGS. - BRAUN INVERTEC IS MONTORING STEE GROUND WATER ELEVATIONS WITH PLEZOMETERS, ANTICIPATED GROUNDWATER - ALL PIPE APRONS UNIOSE 48° PROVIDED WITH TRACH GUARNE SUBJECT TO REVISION. - ALL PIPE APRONS UNIOSE 48° PROVIDED WITH TRACH GUARNE SUBJECT TO REVISION. - ALL PIPE APRONS UNIOSE 48° PROVIDED WITH TRACH GUARNE SUBJECT TO REVISION. - TO PROVIDE CLASS IJI RIPARA WITH FLIEFE FABRIC FOR ALL PIPE OUTLETS. INSTALL 6° OF TOPSOIL ON RIPRAP IN WETLAND BUFFERS AND SEED WITH SEED MIX MIGOT 33-261. - TO EVENTERING IS REQUIRED, THE CONTRACTOR SHALL ARPLY FOR A MIX DAYS DEWATERING PERMIT AND WILL PROVIDE WELL-FIELD LOCATIONS, RATES, DISCHARGE LOCATION, SCHEDULE AND QUANTITIES TO CCWD 7 DAYS PRIOR TO ANY DEWATERING PERMIT AND WILL PROVIDE WELL-FIELD LOCATIONS, RATES, DISCHARGE LOCATION, SCHEDULE AND QUANTITIES TO CCWD 7 DAYS PRIOR TO ANY 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. 183,197 Professional Land Surveyors 6776 Lake Drive NE, Suite 110 JASON E RUD

Lino Lakes, MN 55014 Tel. (651) 361-8200 Fax (651) 361-8701 Date: 07/29/2024 License No. 41578

3 06/25/24 TRAIL EASEMENT / XYLITE LOTS MMD
4 07/02/24 CITY COMMENTS MMD
5 07/29/24 GEO. REPORT / FLOORS 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

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 jot 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 1STS Area hered not be contiguous to the English building Area on the Yard Area, but the entire 1STS Area must exist at an elevation at least one foot above funsitiable Soils, and must contain Undisturbed Soils or soils which meet the requirements of Rule 7080 of the Minnesola Pollution Control Agency for ISTS construction standards. The ISTS Area may be regular in shape, provided they do not encroach into areas reserved by easement or otherwise for rondway, dramage or utility purposes, and provided that all of the area can be reasonably used for ISTS construction without the need for variances.

B. Eligible Building Area. Each for shall contain at least 10,000 square feet of continuous land which less at an elevation at least four feet above Unsuitable Soils. The Eligible Building Area may not be irregular in shape, and should be generally rectangular or ovoid, with no panhandles, narrow necks or peninsulas. Eligible Building Area may not encouch lint cam years exerced by esament or otherwise for notivery, drainage or utility purposes. Pril may be used to create Eligible Building Area.

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

c, rard Area Each to shall contain at least 12,000 contiguous square feet which:

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) Second of the English Budding Area for a distance of at least

1) Second of the English Budding Area for a distance of at least

1) Second of the fine permitter of the Eligible Budding Area.

Yard Areas may encroach into the dedicated easement area which less at a distance of
ten feet from the permitter of the Budding Area.

Yard Areas may encroach into the dedicated easement area which less at a distance of
ten feet from the permitter of the Bud, and may percoach into area reserved by
easement or otherwise for other public whity purposes, but may not encroach into any
onternorech into any areas within the 100 year flood contour or into designated
wetlands. Yard Areas may be Irregular in shape except which thirty feet of the
budding the Area of the Budding Area.

Fill may be used to create
Yard Area.

Designing Bad Area.

The Budding Bad Area.

The Contracts of the Budding Area.

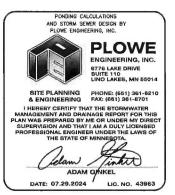
Fill may be used to create
Yard Area.

E. Low Floor Elevations

Low Hold tlevisions

1) For walkout despins, 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.

1) For other despins, 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.



											Highest	Jan El-	1					
Lot	Glack	Total Lot Area	Versi Area I	Septic Area (sq. ft)	Bullding Pad Area	Proposed Building Pad	Garage Floor	Processed Low	Proposed Low	Lowest Floor	Anticipated Groundwarer	Low Floor Determining	Boring #	Boring	Mottles	Building	Custom	
LOI	BIGGK	(sq fl.)	(sq. ft.)	(sq. fl.)	(sq. fl.)	4' Above Unsuitable (sq. ft.)	Elevation	Floor Elev	Opening	Elevation	Elevation	Factor	Donnig w	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	
	-	40.012	14,000	7,1.00	10,000	10.000						Groundwater	97	914 1	911.6	DROP		
													100	918.1	913.6	1 COURSE		
													101	916 9	911.7			
													102	914.1	911.4			
													103	919.1	914.3		1.00	
2	1	54,927	20,939	7,936	10,343	10,343	918.9	912.6	915.8	910.5	907.5	Anticipated	95	917.8	913 1	L.O.*	NO	
												Groundwater	96	915.0	911.3	DROP		
										-			104	918.9		2 COURSE	-	
	-		-										105	919.7 914.5	914.7 911.5		-	
	1 7	60.076	45.500	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	
3	1	50,676	15,506	0.724	10,004	10,064	811.0	911.5	314.7	810.5	807.5	Groundwater	92	915.2	910.5	DROP	1,0	
	-						1		-	+		O TO O TO TO TO	93	914.1		2 COURSE	-	
			1			-			1		-		94	914.4	911.7			
			1				1						98	916.7	9127			
							†						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	68	915.7	911.9	DROP		
												HWL	89	915.6	911 1	2 COURSE		
													90	917.3	912 8			
													91	915 8	911.1			
5	1	54,026	14,655	7,681	10,171	10,171	918.0	911.7	914.9	911.7	907.5	PÉR	ST 5	911.6	904.1 (W)		NO	
							-	1			-	FES 308	6	911.7	910 6	DROP		
										-	-	HWL	73	911.7	910.0	2 COURSE		
	-					1	-		1	-			74	911.9	910 2		1	
			-				1	-					75 76	912.9 912.1	910.9			
· ·	1	64.040	15 100	7.070	40.043	10.042	918.0	911.0	914 2	910.5	907.5	Anticipated	68	912.1	910.9	L O.*	NO	
6	1	51,916	15,109	7,970	10,042	10.042	818.0	911.0	314 2	010.0	307.0	Groundwater	69	915.1	910.9	DROP	140	
	+							-	-	-	-	O. Continued	70	914.4	910.9	1 COURSE	-	
							1				-		71	912.7	911.2	1 0001101		
	+							•			-		72	913.1	909.8		1	
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	
<u> </u>	· ·	50,000	14,000	7,000	10.221	10,22	0.000	515	1			Groundwater	58	913.4	909.9	DROP		
	-		1				-	1					59	913.5	910.5	1 COURSE	1	
				1				1	1				1	60	913.3	909.9		
	1										1		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	
												Groundwater		910.4	909 4	DROP		
													54	909.7	908.4	2 COURSE		
													55	910.6	909.6		1	
								1	1		L .		56	911.2	910.1			
										-			62	912.2	909.9		ļ	
												1 1 1 1 1	63	910.8	908.9	161.00 4	110	
9	1	176,322	47,687	11,957	10,000	7,269	918.5	911.5	911.5	910.5	907.5	Anticipated	ST6	908.4	905.1 (W)		NO	
	-							-		-		Groundwater	3	908.2	907.5	1 COURSE		
	-						-		 	+			28	909.9	908.6	1 COOKSE	-	
	+		-		-		+	-	 	1	+		29	909.7	908.6			
	-		1				-	-	1	-			43	910.3	909.1			
		-	_		+		+	1	1	+	+	 	46	909.9	908.6	†	1	
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	
,,,	<u> </u>	10,710	10,121	7,000	10,200	10,000	1					Groundwater		910.5	909.4	DROP		
			1										44	910.8	909.7	1 COURSE		
									4				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	
												POND 4	108	919.1	914.4	DROP		
												HWL	109	917.1	911.9	1 COURSE		
	-						1			+	1	-	110	915.0	913.0		-	
	-	49.555	10.222	7.55	40.222	0.000	055.3	0000	051.5	040.0	007.5	0-5	111	916.4	912.2	1000	NO	
2	2	47,869	12,589	7,728	10.396	6,656	918.0	911.0	911.0	910.8	907.5	PER	112	917.1	911.9 911.0	DROP	NO	
	1-		+				4	-				POND 4 HWL	113	912.0 913.8	910.5	1 COURSE	-	
	-	-			-		+			+	+	17441	115	916.0	912.7	, 550/100	1	
	1		_		 		1	+	†	t	+	-	210	916.1	912.1		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	
<u> </u>	-	,,,,,,	12,010	.,000	10.190	-,000	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				1		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		909.9		W.O.*	NO	
												Groundwater		910.0	908.3	DROP	-	
	-										4		141	911.0		2 COURSE	-	
	1							1	1				142	912.8	909.6	-	-	
			40	0.000	44.000	0.400	0170	0000	040.0	040.0	007.5	055	143	917.2	912.2	10/07	NO	
5	2	94,204	18,988	8,215	11,206	9,120	917.8	910.8	910.8	910.8	907.5	PER	ST-4	913.2	904.5 (W)		INU	
		-	-					+	1	+	+	POND 4 HWL	121	910 0	908.9	1 COURSE	1	
	+	-	_				1		+	+		LIAAT	123	911.2	908.2	, country	1	
	+	-	+				1		+	+	+	+	125	916.1	912.1	 	1	
	+				-		 	1	1	1	+	+	126	916.1	912.3	1	1	
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	
	-	100,010	18,000	,,010	10,010	5,150	510.2	210,0	2.0,0	1 -10.0	1	Groundwater		915.8	912.5	1	1	
	1	1			1				1	1			128	916.2	912.2			
	1						1					1	139	910.3	908.8			
	1								1	1	1		140	910.3	908.3			

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.

Date: 07/29/2024 License No. 41578

	E.G. RUD & SONS, INC.
EST, 1977	Professional Land Surveyors

DRAV	WN BY: MMD	JOB NO: 230743 DATE: 03	/20/24		
CHEC	CK 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 LOTS	MME		
4	07/29/24	GEO. REPORT / FLOORS	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
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, ISTS Area Each lot must contain at least 7,500 square feet of contiguous area which is reserved for both the ISTS originally constructed and a future ISTS. The ISTS Area need not be contiguous to the flighted building Area on the Yard Area, but the entire ISTS Area must exist at an elevation at least one fool above insuitable Soils, and must contain Undisturbed Soils or soils which meet the requirements of Rule 7080 of the Minnesola Pollution Control Agency for ISTS construction Standards. The ISTS Area may be irregular in shape, provided they do not encroach into areas reserved by essement or otherwise for roadway, orisinage or utility purposes, and provided that if of the area can be reasonably used for ISTS construction without the need for variances.

See the process of th

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

i) 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

II) Lus at least one foot above soils unsuitable for the intended usage of
III) is conclusive to the lightle Building Area for a distance of at least
fifty percent of the lineal perimeter of the Eligible Building Area.
Yard Areas may encreach into the dedicated essement area which lies at a distance of
ten feet from the perimeter of the lot, and may encreach into areas reserved by
easement or otherwise for other public fully purposes, but may no encreach into any
other area reserved by dedication or utherwise for road or dramage purposes, any may
wetlands. Yard Areas may be regular in states except within thirty feet of the
locations where the Yard Area size is contiguous to the Eligible Building Area, at which
locations the Yard Areas shall 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 Area.

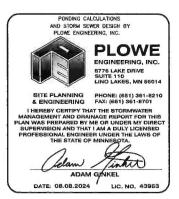
D. Building Pad Areas The entire Building Pad must lie within the Eligible Building Area, and shall meet the separation requirements for the Eligible Building Area.

E. Low Floor Elevations

Low Hoor Elevations)

) For walkout 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.

1) For other designs, the low floor clevation 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.

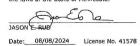


	Block	Total Lot Area	Vard Area	Septic Area (sq. ft)	Building Pad Area	Proposed Building Pad	Garage Floor	Proposed Low	Proposed Low	Lowest Floor	Groundwarer	Determining	Boring #	Boring	Mottles	Building	Custom
Lot	DIOCK	(sq. ft.)	(sq. ft.)	(sq fl.)	(sq ft.)	4' Above Unsuitable (sq. fl.)	Elevation	Floor Elev.	Opening	Elevation	Elevation	Factor		Elevation	Elevation	Туре	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
		00,030	10.700	7,050	10,010	7,100						POND 3	129	917.0	912.3	DROP	
					1							HWL.	130	917.2	912.7	1 COURSE	-
			-					-					136	913.5	910.0		
													137	916.1	912.9		
						*							138	913.9	908.9		i
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
	-	10,100	10.020	7,77.0		0.100	0.110	0.000				POND 3	132	915.2	911.5	DROP	1
		1			-							HWL	133	915.0	912.0	1 COURSE	
	-				+				-				134	913.7	909.4		1
	-	-									-		135	912.4	911.1		+
9	2	67.505	18,706	8,191	10,074	7,027	917 8	910.8	910.8	910.8	907.5	PER	5	911.8	910.5	W.O.	NO
		07,300	10,700	0,181	10,074	7,021	3110	3.0.0	0.00	0.0.0	001.0	POND 3	82	912.2	910.4	DROP	-10
									-			HWL	83	912.0	910.8	1 COURSE	+
	-	-										11112	84	913.1	910.4	7 000,102	\vdash
	-	-		****	-						_		85	912.2	910.7		-
	-				+				-		-		86	911.7	910.2		+
			17 101	2.22	40.000	7,437	917.5	910.5	910.5	910.5	907.5	Anticipated	77	916.1	913.3	W.O.*	NO
10	2	67.072	17,431	8,224	10,386	7,437	917.5	910.5	910.5	910.5	907.5	Groundwater	78	915.3	911.8	DROP	NO
			***		_							Gloundwater	79	911.3	908.5	1 COURSE	+
	-				-								80	913.0	910.0	COURSE	-
																	-
													81	912.7	910.0		
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	
													65	909.5	907.8	1 COURSE	
													66	909.1	907.9		
													67	914.6	911.9		
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 .
											(MOTTLES	POND 6	25	909,3	908.0	1	
	-		1			+					BORING 26)	HWL	26 °	909.4	908.0		\vdash
											Darento Lo,		49	909.3	907.8		
	-		_		 							-	50	907.5	906.5	-	+
	+	 	-		+								51	908.9	907.7		1
	-								-				52	909.0	908.0	-	
	_												53	909.8	908.5	-	\vdash
	-								410.0		000.0					141.0	110
13	2	716,388	18,696	7,923	10,237	5,095	916.8	910.5	910.5	910.5	907.5	Anlicipated	20	909.4	908.2	W.O.*	NO
												Groundwater	144	916.9	912.1	DROP	
													145	914.4	908.6	2 COURSE	-
													146	910.3	908.4		
													147	910.8	908.6		
OUTLOT B		63,314		NA	NA NA	NA NA	NA	NA	NA.	NA	NA	NA				L	
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
												AREA 107	256	911.5	910.4	DROP	
	1	i -			1							HWL	257	911.7	910.7	1 COURSE	
	-	-											258	913.5	910.8		
-	1	-	1										259	912.1	910.9	1	
2	3	53,106	15,893	7.836	13,123	13,123	920 5	913.5	913.5	913.3	907.5	PER	· 251	914.2	911.5	W.O.*	NO
-	3	03,100	10,000	1,000	10,120	10,123	9200	510.0	0.0.0	D 10.0	301.0	AREA 107	252	916.4	912 7	DROP	110
	_	-			1	ļ		1	-			HWL	253	916.7	913.4	1 COURSE	-
	-				+	-		1				11112	254	913.9	911.9	1 0001102	1
		1	-						-				255	912.6	911.1	-	1
3			40.004	2 000	10.000	10.00	000.0	0400	010.0	040.0	007.5	PER	34	911.8	910.6	W.O.*	1 1/0
. 3	3	51,626	15,201	7,888	10,161	10,161	920.3	913.3	913.3	913.3	907.5	AREA 107				DROP	NO
													246	916.3	912.1	UROP	
	-											HWL	247	915.5	911.8	1 COURSE	-
													248	916.0	910.5		
													249	915.3	909.5		
4	3	50,725	21,282	7,806	10,713								250	913.9	909.9		-
				1,000	10,110	10,713	921.5	914.5	914.5	911.5	908.5	Anticipated	13	913.9 913.1	912.1	W.O.*	NO
	_			1,000	10,115	10,713	921.5	914.5	914.5	911.5	908.5	Anticipated Groundwater	13 242	913.9 913.1 913.4	912.1 912.2	DROP	
				1,000	10,715	10,713	921.5	914.5	914.5	911.5	908.5		13 242 243	913.9 913.1 913.4 913.6	912.1 912.2 912.2		
				1,000	10,115	10,713	921.5	914.5	914.5	911.5	908.5		13 242 243 244	913.9 913.1 913.4 913.6 914.6	912.1 912.2 912.2 912.1	DROP	
												Groundwater	13 242 243 244 245	913.9 913.1 913.4 913.6 914.6 916.8	912.1 912.2 912.2 912.1 911.8	DROP 1 COURSE	
5	3	44,998	14,913	8,202	10,155	10,713	921.5	914.5	914.5	911.5	908.5	Groundwater Anticipated	13 242 243 244 245 ST-1	913.9 913.1 913.4 913.6 914.6 916.8 914.3	912.1 912.2 912.2 912.1 911.8 904.9 (W)	DROP 1 COURSE W.O.*	
5	3	44,998										Groundwater	13 242 243 244 245 ST-1 237	913.9 913.1 913.4 913.6 914.6 916.8 914.3	912.1 912.2 912.2 912.1 911.8 904.9 (W) 911.3	DROP 1 COURSE W.O.*	NO
5	3	44,998										Groundwater Anticipated	13 242 243 244 245 ST-1 237 238	913.9 913.1 913.4 913.6 914.6 916.8 914.3 914.6 913.9	912.1 912.2 912.2 912.1 911.8 904.9 (W) 911.3 912.7	DROP 1 COURSE W.O.*	NO
5	3	44,998										Groundwater Anticipated	13 242 243 244 245 ST-1 237 238 239	913.9 913.1 913.4 913.6 914.6 916.8 914.3	912.1 912.2 912.2 912.1 911.8 904.9 (W) 911.3 912.7	DROP 1 COURSE W.O.*	NO
5	3	44,998										Groundwater Anticipated	13 242 243 244 245 ST-1 237 238 239	913.9 913.1 913.4 913.6 914.6 916.8 914.3 914.6 913.9	912.1 912.2 912.2 912.1 911.8 904.9 (W) 911.3 912.7	DROP 1 COURSE W.O.*	NO
5	3	44,998										Groundwater Anticipated	13 242 243 244 245 ST-1 237 238 239 240	913.9 913.1 913.4 913.6 914.6 916.8 914.3 914.6 915.9 916.2 916.9	912.1 912.2 912.2 912.1 911.8 904.9 (W) 911.3 912.7 911.9	DROP 1 COURSE W.O.*	NO
			14,913	6,202	10,155	10,115	922.0	915.0	915.0	911.5	908.5	Anticipated Groundwater	13 242 243 244 245 ST-1 237 238 239 240 241	913.9 913.1 913.4 913.6 914.6 916.8 914.3 914.6 915.9 915.0	912.1 912.2 912.2 912.1 911.8 904.9 (W) 911.3 912.7 911.9 912.6 911.7	DROP 1 COURSE W.O.* DROP 1 COURSE	NO
5	3	44,998 45,357										Anticipated Groundwater Anticipated Anticipated	13 242 243 244 245 ST-1 237 238 239 240 241	913.9 913.1 913.4 913.6 914.6 916.8 914.3 914.6 913.9 916.2 918.9 915.0 912.1	912.1 912.2 912.2 912.1 911.8 904.9 (W) 911.3 912.7 911.9 912.6 911.7	DROP 1 COURSE W.O.* DROP 1 COURSE	NO
			14,913	6,202	10,155	10,115	922.0	915.0	915.0	911.5	908.5	Anticipated Groundwater	13 242 243 244 245 ST-1 237 238 240 241 232 233	913.9 913.1 913.4 913.6 914.6 916.8 914.3 914.6 913.9 916.2 916.9 915.0 912.1	912.1 912.2 912.2 912.1 911.8 904.9 (W) 911.3 912.7 911.9 912.6 911.7	DROP 1 COURSE W.O.* DROP 1 COURSE L.O.*	NO
			14,913	6,202	10,155	10,115	922.0	915.0	915.0	911.5	908.5	Anticipated Groundwater Anticipated Anticipated	13 242 243 244 245 ST-1 237 238 239 240 241 232 233 234	913.9 913.1 913.4 913.6 914.6 916.8 914.3 914.6 915.0 915.0 915.0 912.1 912.3 914.4	912.1 912.2 912.2 912.2 912.1 911.8 904.9 (W) 911.3 912.7 911.9 912.6 911.7	DROP 1 COURSE W.O.* DROP 1 COURSE	NO
			14,913	6,202	10,155	10,115	922.0	915.0	915.0	911.5	908.5	Anticipated Groundwater Anticipated Anticipated	13 242 243 244 245 ST-1 237 238 239 240 241 232 233 234 235	913.9 913.1 913.4 913.6 914.6 916.8 914.3 914.6 913.9 916.2 915.0 912.1 912.3 918.9 915.0	912.1 912.2 912.2 912.2 912.1 911.8 904.9 (W) 911.3 912.7 911.9 912.6 911.7 911.2 911.1 911.7	DROP 1 COURSE W.O.* DROP 1 COURSE L.O.*	NO
6	3	45,357	14,913	6,202 7,985	10.155	10,115	922.0	915.0	915.0	911.5	908.5	Anticipated Anticipated Anticipated Groundwater Anticipated Groundwater	13 242 243 244 245 ST-1 237 238 240 241 232 233 234 235 236	913.9 913.1 913.6 914.6 916.8 914.3 914.6 913.9 916.2 916.9 915.0 912.1 912.3 914.4 918.9 914.8	912.1 912.2 912.2 912.1 911.8 904.9 (W) 911.3 912.7 911.9 912.6 911.7 911.2 911.1 911.1	DROP 1 COURSE W.O.* DROP 1 COURSE L.O.* DROP 1 COURSE	NO
			14,913	6,202	10,155	10,115	922.0	915.0	915.0	911.5	908.5	Groundwater Anticipated Groundwater Anticipated Groundwater Anticipated Anticipated	13 242 243 244 245 ST-1 237 238 239 240 241 232 233 234 235 236 12	913.9 913.1 913.4 913.6 914.6 916.9 914.3 914.6 913.9 916.9 915.0 912.3 914.4 918.9 914.8	912.1 912.2 912.2 912.1 911.8 904.9 (W) 911.3 912.7 911.9 912.6 911.1 911.7 NONE 910.0	W.O.* DROP 1 COURSE W.O.* DROP 1 COURSE L.O.* DROP 1 COURSE	NO
6	3	45,357	14,913	6,202 7,985	10.155	10,115	922.0	915.0	915.0	911.5	908.5	Anticipated Anticipated Anticipated Groundwater Anticipated Groundwater	13 242 243 244 245 ST-1 237 238 240 241 232 233 234 235 238 12 228	913.9 913.1 913.4 913.6 914.6 916.8 914.3 914.6 916.9 916.2 916.9 912.1 912.3 914.4 914.8 914.8	912.1 912.2 912.2 912.2 912.1 911.8 904.9 (W) 911.3 912.7 911.6 911.6 911.7 911.7 NONE 911.5	DROP 1 COURSE W.O.* DROP 1 COURSE L.O.* DROP 1 COURSE W.O.* DROP 1 COURSE	NO NO
6	3	45,357	14,913	6,202 7,985	10.155	10,115	922.0	915.0	915.0	911.5	908.5	Groundwater Anticipated Groundwater Anticipated Groundwater Anticipated Anticipated	13 242 243 244 245 ST-1 237 238 239 240 241 232 233 234 235 236 12 228	913.9 913.1 913.4 913.6 914.6 914.3 914.6 914.3 914.6 915.9 915.2 916.9 915.1 912.3 914.4 913.9 914.8 914.8	912.1 912.2 912.2 912.2 912.1 911.8 904.9 (W) 911.3 912.7 911.9 912.6 911.1 911.1 911.5 910.0 910.0	W.O.* DROP 1 COURSE W.O.* DROP 1 COURSE L.O.* DROP 1 COURSE	NO NO
6	3	45,357	14,913	6,202 7,985	10.155	10,115	922.0	915.0	915.0	911.5	908.5	Groundwater Anticipated Groundwater Anticipated Groundwater Anticipated Anticipated	13 242 243 244 245 ST-1 237 238 240 240 232 233 234 241 232 233 234 245 241 232 233 241 232 233 240 240 232 233 240 240 241 241 241 241 241 241 241 241 241 241	913,9 913,1 913,4 913,6 914,6 916,8 916,3 916,3 916,2 916,9 915,0 912,1 915,9 915,0 917,1 918,9 918,9 918,9 918,9 918,9 918,9 918,9	912.1 912.2 912.2 912.1 913.8 904.9 (W) 911.3 912.7 911.9 912.6 911.7 NONE 910.0 910.1 910.1	DROP 1 COURSE W.O.* DROP 1 COURSE L.O.* DROP 1 COURSE W.O.* DROP 1 COURSE	NO NO
6	3	45,357 45,583	14,913	7,985 8,156	10.155	10,116 11,390 6,172	922.0 918.5 917.8	915.0 911.5 911.5	915.0 914.7 914.5	911.5 911.5 911.5	908.5 908.5	Groundwater Anticipated Groundwater Anticipated Groundwater Anticipated Groundwater Anticipated Groundwater	13 242 243 244 245 ST-1 237 238 239 240 241 232 233 234 235 238 12 228 229 230 231	913,9 913,1 913,4 913,6 914,6 916,8 916,9 916,9 915,0 915,0 912,3 914,4 911,0 914,8 911,0 911,0 911,4 911,4	912.1 912.2 912.2 912.1 911.3 911.3 912.7 911.9 912.6 911.7 911.7 NONE 911.5 910.0 910.1 910.4	DROP 1 COURSE W.O.* DROP 1 COURSE L.O.* DROP 1 COURSE W.O.* DROP 2 COURSE	NO NO NO
6	3	45,357	14,913	6,202 7,985	10.155	10,115	922.0	915.0	915.0	911.5	908.5	Groundwater Anticipated Groundwater Anticipated Groundwater Anticipated Groundwater Anticipated Groundwater	13 242 243 244 245 ST-1 237 238 240 241 241 233 234 235 236 12 228 230 230	913,9 913,1 913,4 913,6 914,9 916,9 916,9 915,0 912,1 916,9 915,0 914,4 918,9	912.1 912.2 912.2 912.1 91.3 912.7 911.3 912.7 911.9 912.6 911.7 911.7 910.0 910.0 910.1 910.4 910.7 910.4	DROP 1 COURSE W.O.* DROP 1 COURSE L.O.* DROP 1 COURSE W.O.* DROP 2 COURSE	NO NO
6	3	45,357 45,583	14,913	7,985 8,156	10.155	10,116 11,390 6,172	922.0 918.5 917.8	915.0 911.5 911.5	915.0 914.7 914.5	911.5 911.5 911.5	908.5 908.5	Groundwater Anticipated Groundwater Anticipated Groundwater Anticipated Groundwater Anticipated Groundwater	13 242 243 244 245 8T-1 237 238 239 240 241 233 234 235 238 12 228 228 230 231 11	913,9 913,1 913,4 913,6 914,6 916,8 916,9 916,9 915,0 915,0 912,3 914,4 911,0 914,8 911,0 911,0 911,4 911,4	912.1 912.2 912.2 912.1 912.8 904.9 (W) 911.3 911.9 912.6 911.7 911.7 NONE 911.5 910.4 910.1 910.4 910.1 910.4	DROP 1 COURSE W.O.* DROP 1 COURSE L.O.* DROP 1 COURSE W.O.* DROP 2 COURSE W.O. DROP	NO NO NO
6	3	45,357 45,583	14,913	6,202 7,985 8,156	10.155	10,116 11,390 6,172	922.0 918.5 917.8	915.0 911.5 911.5	915.0 914.7 914.5	911.5 911.5 911.5	908.5 908.5	Groundwater Anticipated Groundwater Anticipated Groundwater Anticipated Groundwater Anticipated Groundwater	13 242 243 244 245 ST-1 237 238 240 241 241 233 234 235 236 12 228 230 230	913,9 913,1 913,4 913,6 914,9 916,9 916,9 915,0 912,1 916,9 915,0 914,4 918,9	912.1 912.2 912.2 912.1 91.3 912.7 911.3 912.7 911.9 912.6 911.7 911.7 910.0 910.0 910.1 910.4 910.7 910.4	DROP 1 COURSE W.O.* DROP 1 COURSE L.O.* DROP 1 COURSE W.O.* DROP 2 COURSE	NO NO NO
6	3	45,357 45,583	14,913	6,202 7,985 8,156	10.155	10,116 11,390 6,172	922.0 918.5 917.8	915.0 911.5 911.5	915.0 914.7 914.5	911.5 911.5 911.5	908.5 908.5	Groundwater Anticipated Groundwater Anticipated Groundwater Anticipated Groundwater Anticipated Groundwater	13 242 243 244 245 8T-1 237 238 239 240 241 233 234 235 238 12 228 228 230 231 11	913,9 913,1 913,6 913,6 914,6 916,8 916,8 916,9 916,9 916,2 916,2 916,2 916,2 916,2 916,2 916,2 916,2 916,2 916,3 916,3 916,3 917,4 917,8 917,4 917,8 917,4 917,9 917,4 917,9	912.1 912.2 912.2 912.1 912.8 904.9 (W) 911.3 911.9 912.6 911.7 911.7 NONE 911.5 910.4 910.1 910.4 910.1 910.4	DROP 1 COURSE W.O.* DROP 1 COURSE L.O.* DROP 1 COURSE W.O.* DROP 2 COURSE W.O. DROP	NO NO NO
6	3	45,357 45,583	14,913	6,202 7,985 8,156	10.155	10,116 11,390 6,172	922.0 918.5 917.8	915.0 911.5 911.5	915.0 914.7 914.5	911.5 911.5 911.5	908.5 908.5	Groundwater Anticipated Groundwater Anticipated Groundwater Anticipated Groundwater Anticipated Groundwater	13 242 243 244 245 ST-1 237 238 239 240 241 232 233 234 235 236 12 228 229 230 231 11 224 224	913.9 913.1 913.4 913.6 914.6 914.6 914.9 914.9 914.9 915.0 912.1 912.1 914.8 914.8 914.8 914.8 914.8 914.8 914.8 914.8 914.8 914.8 914.8 914.8 914.8 914.8	912.1 912.2 912.2 912.2 912.1 911.8 904.9 (W) 911.3 912.6 911.7 911.7 911.7 911.7 910.0 910.1 910.1 910.7 910.7 910.7 910.7 911.4	DROP 1 COURSE W.O.* DROP 1 COURSE L.O.* DROP 1 COURSE W.O.* DROP 2 COURSE W.O. DROP	NO NO NO
7	3	45,357 45,583 273,622	14,913 15,719 15,521	7,986 8,156	10.155 11.390 11.286 10,286	10,115 11,360 11,360 6,172 5,506	922.0 916.5 917.8	915.0 911.5 911.5	915.0 914.7 911.5	911.5 911.5 911.5	908.5 908.5 908.5	Anticipated Groundwater Anticipated Groundwater Anticipated Groundwater Anticipated Groundwater Anticipated Groundwater Anticipated Groundwater	13 242 243 244 245 5T-1 237 238 240 241 232 233 234 235 236 12 228 229 230 231 11 224 225 226 226 227	913.9 913.4 913.4 913.6 914.6 916.8 914.6 915.9 916.9 916.9 912.1 912.1 912.1 912.1 912.1 913.9 914.4 915.0 917.0	912.1 912.2 912.2 912.2 912.1 911.8 904.9 (W) 911.3 912.7 911.9 912.6 911.7 911.7 NONE 910.0 910.1 910.4 910.7 910.7 910.2 910.5 910.2	DROP 1 COURSE W.O.* DROP 1 COURSE L.O.* DROP 1 COURSE W.O.* DROP 2 COURSE W.O. DROP 1 COURSE	NO NO NO NO
6	3	45,357 45,583	14,913	6,202 7,985 8,156	10.155	10,116 11,390 6,172	922.0 918.5 917.8	915.0 911.5 911.5	915.0 914.7 914.5	911.5 911.5 911.5	908.5 908.5	Anticipated Groundwater Anticipated Groundwater Anticipated Groundwater Anticipated Groundwater Anticipated Groundwater Anticipated Groundwater Anticipated Anticipated Groundwater	13 242 243 244 245 ST-1 237 238 239 241 232 233 234 235 236 12 228 230 231 11 224 226 226 226 227 38	913.9 913.1 913.4 913.6 914.6 914.6 914.8 914.9 914.9 915.0 912.1 912.1 914.8 911.0 914.8 911.0 914.9 915.0 915.0 917.1 917.2 917.2 918.9	912.1 912.2 912.2 912.2 912.1 911.8 904.9 (W) 911.3 912.7 911.9 912.6 911.7 911.1 911.5 910.0 910.1 910.7 910.1 910.7 910.7 910.2 910.2 910.2 910.2	U.O.* DROP 1 COURSE L.O.* DROP 1 COURSE W.O.* DROP 1 COURSE W.O. DROP 1 COURSE W.O. DROP 1 COURSE W.O. DROP 1 COURSE	NO NO NO
7	3	45,357 45,583 273,622	14,913 15,719 15,521	7,986 8,156	10.155 11.390 11.286 10,286	10,115 11,360 11,360 6,172 5,506	922.0 916.5 917.8	915.0 911.5 911.5	915.0 914.7 911.5	911.5 911.5 911.5	908.5 908.5 908.5	Anticipated Groundwater Anticipated Groundwater Anticipated Groundwater Anticipated Groundwater Anticipated Groundwater Anticipated Groundwater	13 242 243 244 245 8T-1 237 238 239 240 241 233 234 235 236 12 226 229 230 231 11 224 225 226 227 38	913.9 913.1 913.4 913.6 914.6 914.6 916.5 914.6 913.9 916.2 915.0	912.1 912.2 912.2 912.2 912.1 911.8 904.9 (W) 911.3 912.7 911.9 912.6 911.7 911.7 911.7 910.0 910.1 910.4 910.4 910.5 910.5 910.5 910.5 910.5 910.5 910.5 910.5	DROP 1 COURSE W.O.* DROP 1 COURSE L.O.* DROP 1 COURSE W.O.* DROP 2 COURSE W.O. DROP 1 COURSE W.O. DROP 1 COURSE W.O. DROP 1 COURSE	NO NO NO NO NO
7	3	45,357 45,583 273,622	14,913 15,719 15,521	7,986 8,156	10.155 11.390 11.286 10,286	10,115 11,360 11,360 6,172 5,506	922.0 916.5 917.8	915.0 911.5 911.5	915.0 914.7 911.5	911.5 911.5 911.5	908.5 908.5 908.5	Anticipated Groundwater Anticipated Groundwater Anticipated Groundwater Anticipated Groundwater Anticipated Groundwater Anticipated Groundwater Anticipated Anticipated Groundwater	13 244 243 244 245 ST-4 237 238 239 240 241 232 233 234 235 236 12 228 229 230 111 224 225 230 231 111 224 226 227 38	913.9 913.1 913.4 913.6 914.6 914.6 916.9 914.9 914.9 915.9 916.2 916.9 912.1 912.1 914.8 914.8 914.8 914.8 914.9 914.8 914.9	912.1 912.2 912.2 912.2 912.1 911.8 904.9 (W) 911.3 912.7 911.6 911.7 911.7 NONE 910.1 910.1 910.1 910.1 910.7 910.2 910.2 910.3 910.7 910.2 910	U.O.* DROP 1 COURSE L.O.* DROP 1 COURSE W.O.* DROP 1 COURSE W.O. DROP 1 COURSE W.O. DROP 1 COURSE W.O. DROP 1 COURSE	NO NO NO NO NO
7	3	45,357 45,583 273,622	14,913 15,719 15,521	7,986 8,156	10.155 11.390 11.286 10,286	10,115 11,360 11,360 6,172 5,506	922.0 916.5 917.8	915.0 911.5 911.5	915.0 914.7 911.5	911.5 911.5 911.5	908.5 908.5 908.5	Anticipated Groundwater Anticipated Groundwater Anticipated Groundwater Anticipated Groundwater Anticipated Groundwater Anticipated Groundwater Anticipated Anticipated Groundwater	13 242 243 244 245 8T-1 237 238 239 240 241 233 234 235 236 12 226 229 230 231 11 224 225 226 227 38	913.9 913.1 913.4 913.6 914.6 914.6 916.5 914.6 913.9 916.2 915.0	912.1 912.2 912.2 912.2 912.1 911.8 904.9 (W) 911.3 912.7 911.6 911.7 911.7 NONE 910.1 910.1 910.1 910.1 910.7 910.2 910.2 910.3 910.7 910.2 910	DROP 1 COURSE W.O.* DROP 1 COURSE L.O.* DROP 1 COURSE W.O.* DROP 2 COURSE W.O. DROP 1 COURSE W.O. DROP 1 COURSE W.O. DROP 1 COURSE	NO NO NO NO NO

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.
Profession	al Land Surveyors
6776 Lake	Drive NE, Suite 110
	, MN 55014
Tel. (651) 361-820	Fax (651) 361-8701

www.egrud.com

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

must be present.

A. ISTS Area. Each lot must contain at least 7,500 square feet of contiguous area which is reserved for both the ISTS originally constructed and a future ISTS. The ISTS Area need not be consiguous to the English building Area or the Yard Area, but the ISTS area need not be consiguous to the English building Area or the Yard Area, but the ISTS area need to the ISTS area need to the ISTS area may be ISS and or so allo width meet the requirements of Rule 7080 of the Minnesota Poliution Control Agency for ISTS construction standards. The ISTS Area may be irregular in shape, provided they do not encroach into areas reserved by eastment 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. Eligible Building Area Each lot shall contain at least \$10,000 square feet of contiguous land which less at an elevation at least four first above Unsuitable Soils. The Eligible Building Area may not be reviguis in Sappe, and Should be generally rectangular or ovoid, with no panhandles, narrow necks or permissible Sulfing Areas may not encreach into any areas reserved by essement of otherwise for roadway, ordinage 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:

c, yard Area Each lot shall contain at least 12,000 contiguous square feet which:

1) Lies above the 100 year flood contour, and

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

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

10 Lies at least one floot above soils unsuitable for the Intended usage of
the Yard area, and

10 Lies area to the linear permitter of the Elipble Building Area.

Yard Areas may encroach into the decicated exsement area which hes at a distance of
ten feet from the permitter of the Intended Permitter and the Intended Permitter and the Intended Permitter area reserved by
easternet or otherwise for other public utility purposes, but may not encroach into any
other area reserved by dedication or or otherwise for road or dishaps purposes, any may
not encroach into any areas within the 100 year flood contour or into designated
wetlands. Tank dreas may be irregular in shape except within thiny feet of the
locations the Yard Areas shall be a logical extension or opprassion of the generally
rectangular or ovoid shape of the Elipbic Building Area. Fill may be used to create
Yard Area.

1. Building Page Area. The writing Building Area.

E. Low Floor Elevations



	Lot	Block	Total Lot Area	Yard Area	Seotic Area (sq. ft)	Building Pad Area	Proposed Building Pad	Garage Floor	Proposed Low	Proposed Low	Lowest Floor	Groundwarer	Determining	Boring #	Boring	Molties	Building	Custom
1	201	Biook									Elevation	Elevation	Factor					
11	10	3				10,900	8,664	919.2	911.5	911.5	911.5	908.5					W.O.	NO
Total Tota										_			Groundwater					
1 1 2 2 2 2 2 2 2 2																		\vdash
11 3 Miles 15.54																		-
	- 44	-	05 500	45.544	7 980	10.674	6.012	018.6	011.5	011.5	911.5	908.6	Anticipated				W.O.*	NO
	11	3	96,588	15,514	7,009	10,674	6,912	910.5	811.0	911.0	811.0	300.0				910.1		1,,0
	-	-		-				_	1				Grownanier				1 COURSE	
1		-				1	-				-					910.6		
1		-													912.3			
Total Tota		—																
Committee March Committee March Committee March Committee March Committee Committe		1			*													
	12	3	53,438	14,194	7.977	10.185	8,825	917 8	911.5	911.5	911.5	908.5						NO
													Groundwater					\perp
13 2 52,511 17,700 17,800 14,600 11,0																	2 COURSE	-
15 17 18 18 18 18 18 18 18									-									\vdash
13 3 65,511 17,702 7,825 10 485 6815 485 511.5 5											1							\vdash
S S S S S S S S S S	-																	\vdash
1	- 10		FA 254	40.700	7 922	10.403	E 945	018.5	911.5	011.5	911.5	908.5	Anticipated				wo.	NO
1	13	3	30,351	12,790	1,023	10,463	3,615	310.0	311.5	9,1.0	011.0	000.5						
14 3 65:191 18:201 77:90 11:591 76:92 97:8 97:5	-					_												
1		-												208	911.9	910.2		
Company Comp						<u> </u>									911.6			
Conclusion Con	14	3	65,131	18,261	7.796	11,011	7.912	917.8	911.5	911.5	911.5	908.5						NO
15 3 66.797 18.200 6.076 10.201 9.133 91.5 91.5 91.5 91.5 91.5 91.5 91.5 91.5													Groundwater					\perp
15 3 65.797 18.250 10.211 5.123 591.6 591.5																	2 COURSE	1
15 3 66,797 19,800 60,076 10,811 9.123 916.5 911.5 911.5 915.5 90.6 910.7 10,800 10,000												-						\vdash
Groundwith 133 114 1943 1056 105								0.7.7		0// 5		000.6	Antin'				NA CO	100
1	15	3	69.797	18.620	8,079	10.511	9.123	918.5	911.5	911.5	911.5	908.5						INU
16 3 44,880 21,482 6268 10,049 140,048 918.6 918.6 912.6 918.7 918.5 918.5 918.5 918.5 918.6 918		-	-	-				-		-	1	-	Groundwater					+
16 3 44,860 97.40 52.86 10,666 10,046 918.5 918.		-	-	-		1			-	-	+	-			916.9		· OVUINGE	1
16 3 44,860 21,02 62,98 10,049 10,049 918.5 612.6 614.7 611.5 588.5 Anticipated 1.0 647 617.7 L. C. N. O.		-		-		-	-	-			-	-					 	\vdash
16 3 44,880 21,402 5288 10,046 10,046 918.5 912.5 918.7 918.5 92.6 918.7 918.5		+	-			-		-	-	+								
Genovaluer 150 610-0 612-8 100-000 100-000 100-000 100-000 100-000 100-000 100-000 100-000 100-000 100-000 100-000 100-000 100-000 100-000 100-000 100-000 100-0000 100-0000 100-0000 100-0000 100-0000 100-0000 100-0000 100-0000 100-0000 100-0000 100-0000 100-0000 100-0000 100-0000 100-00000 100-0000 100-0000 100-00000 100-00000 100-00000 100-0	10		44 900	24 402	9 200	10.040	10.049	910.5	912.5	915.7	911.5	908.5	Anticipated				L.O -	NO
17 3 47.600 14,400 7,860 16,801 16	,,,	-	44,000	21,402	0,200	10,040	10,040	0.0.0	-		1							1
17 3 47.500 14.400 7.899 10.501 16	-	_	-	-								1					1 COURSE	
177 3 47 000 14,450 7,890 10,591 1														161	915.3	913.3		
Convenient 18	-		i e															
Growbester 186 69:29 60:58 PRP 10.090	17	3	47,906	14,400	7,899	10,901	10,901	918.8	912.5	915.7	910.5	907.5			913.2			NO
18 3 47,208 15,445 8,018 10,090 10,090 518.0 911.0 914.2 910.5 807.5 Americapinal 40 912.3 911.1 40.0 10,090 10,090 518.0 911.0 914.2 910.5 807.5 Americapinal 40 912.3 911.1 40.0 10,000 10,000 918.0 911.0 914.2 910.5 9	-									1			Groundwater					
18 3 47,208 15,445 6,018 10,090 10,090 918.0 911.0 514.2 910.5 97.5 Anticipated 40 97.2 31.3 10,000 10,090 10,090 918.0 911.0 514.2 910.5 97.5 Anticipated 10,000 10,																	2 COURSE	-
19 3 47,208 15,445 6,018 10,080 10																		
Groundwell 152 911.8 910.8 COURSE					A							1					1.0.	110
153 154 156	18	3	47,208	15,445	8,018	10,090	10,090	918.0	911.0	914.2	910.5	907.5			912.3			NO
154 912-8 200 20											-		Groundwater					-
19 3 43,750 19,301 7,778 10,038 10,038 922.5 915.5						-		-		-	-	-					1 CODINGE	1
19 3 43,750 19,301 7,778 10,038 10,038 922.5 915.5 915.5 915.5 908.5 Anticipated ST2 915.7 908.0		-						+			1							+
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UILUI 101,301 NA NA NA NA NA NA NA N				-										+	-	_	-	+-
	COLLOTA		151,367		I NA	1 105	100	1 160	1100	1 101	1	1 101	1.01					

Highest Low Floor

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

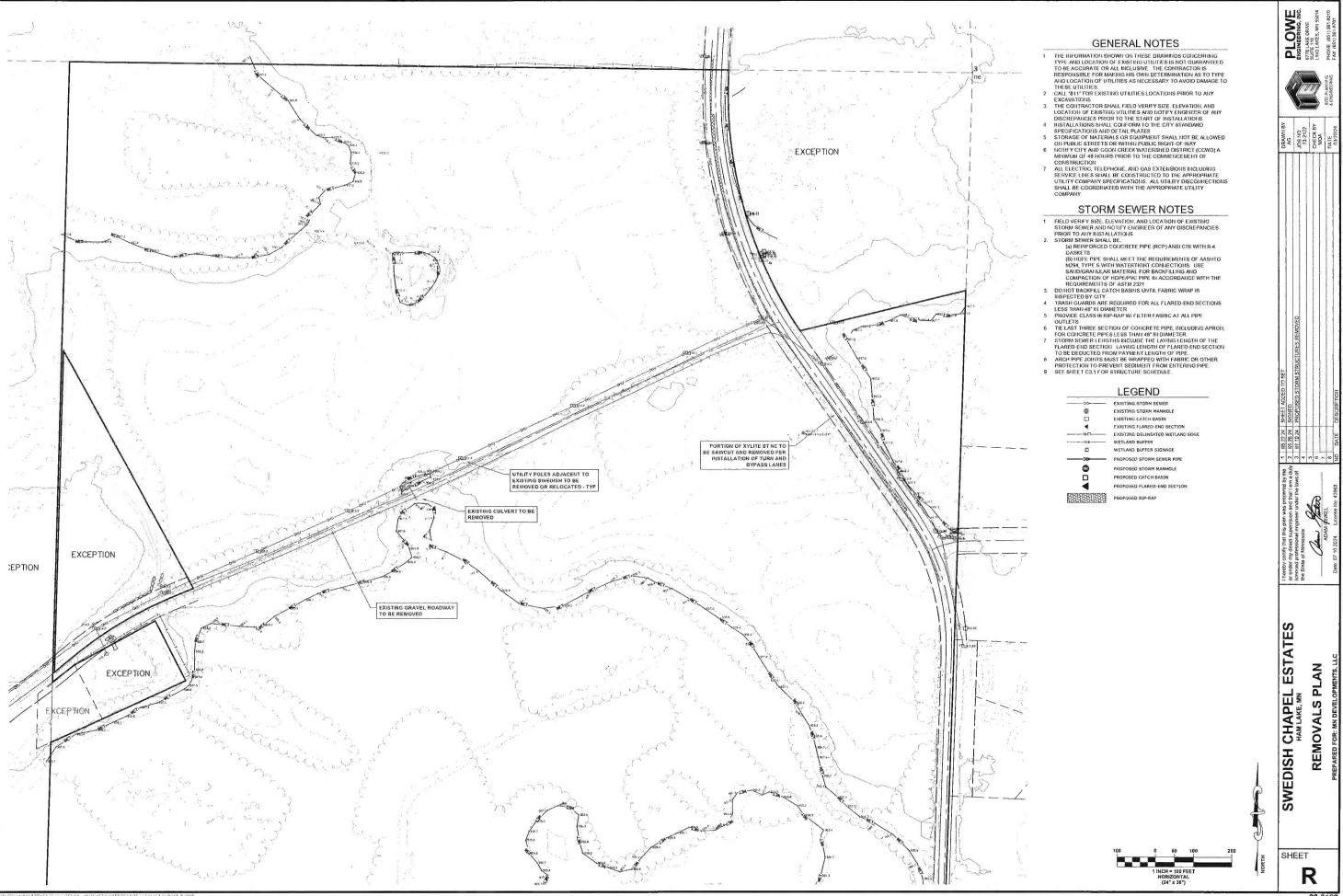
(W) INDICATES STATIC GROUNDWATER ELEVATION LOW OPENINGS LISTED ARE REFLECTING THE REAR YARD LOW OPENING

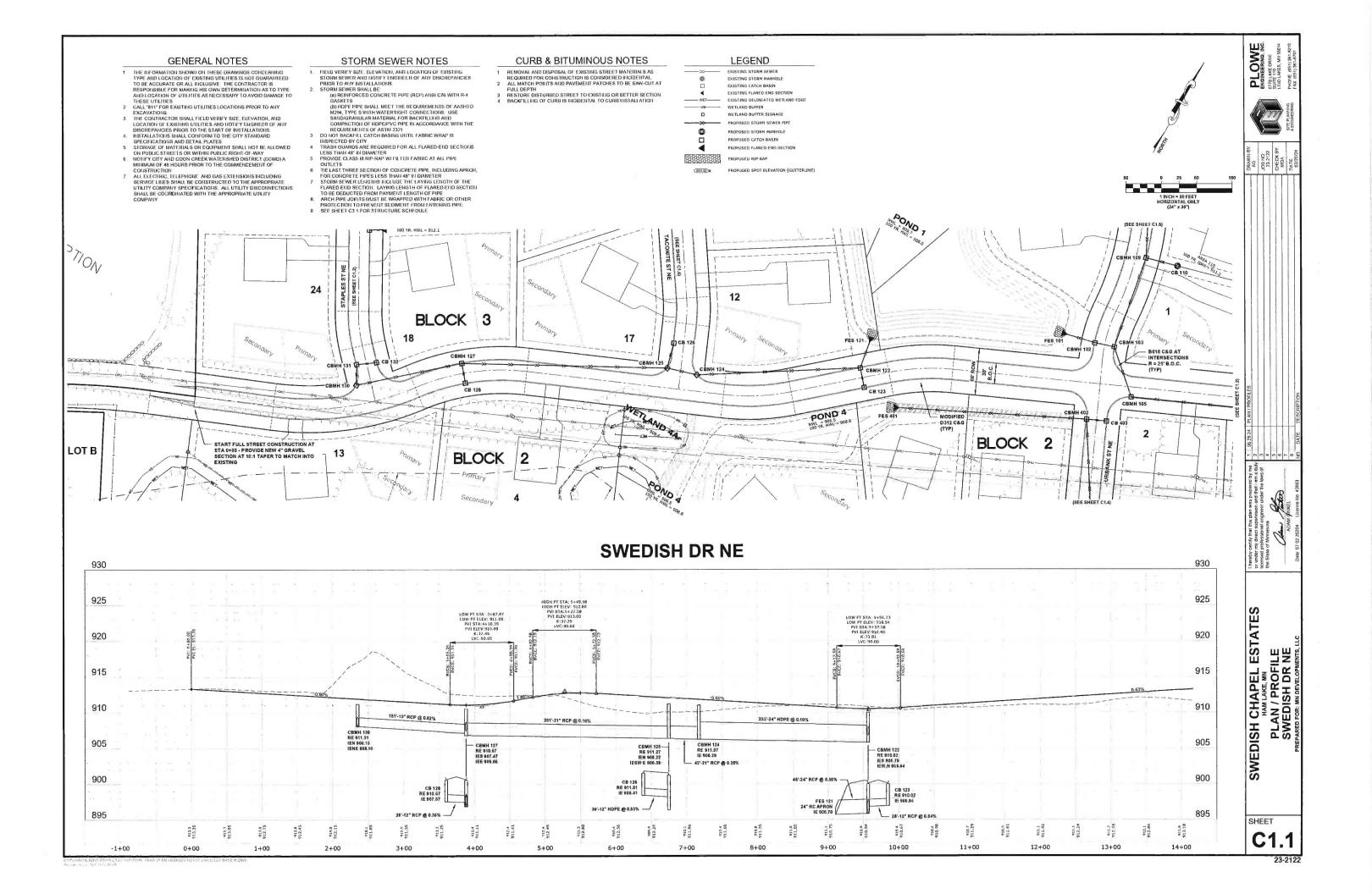
I hereby certify that this survey, plan or report was prepared by me or under my direct supervision and that I am a duly Registered Land Surveyor under the laws of the State of Minnesota.

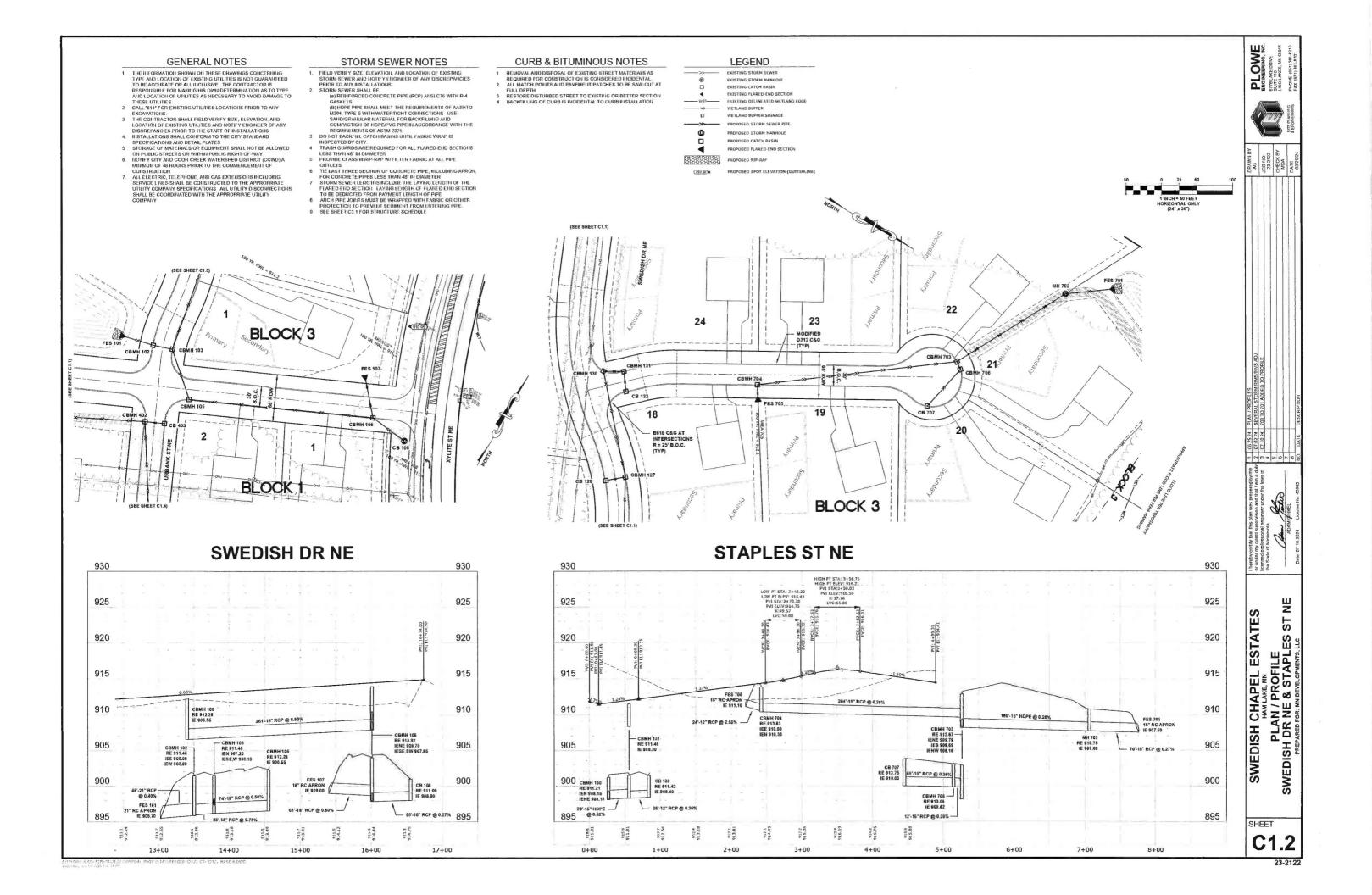
Date: 07/29/2024 License No. 41578

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	

DRAWN BY: MMD		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		MMD
4	07/29/24	GEO. REPORT / FLOORS		MMD
NO.	DATE	DESCRIPTION		BY







GENERAL NOTES

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

- ARID LOCATION OF UTILITIES AS NECESSARY TO AVOID DAMAGE TO THESE UTILITIES

 2 CALL "311" FOR EXISTING UTILITIES LOCATIONS PRIOR TO ANY EXCAVATIONS

 3 THE CONTRACTOR SHALL FIELD VERIFY SIZE, ELEVATION, AND LOCATION OF EXISTING UTILITIES AND ROTHY ELIGINEER OF ANY DISCREPANCIES PRIOR TO THE START OF INSTALLATIONS.

 4. INSTALLATIONS SHALL COLFORM TO THE CITY STANDARD SPECIFICATIONS AND DETAIL PLATES

 5 STORAGE OF MATERIALS OR EQUIPMENT SHALL HOT BE ALLOWED ON PUBLIC STREETS OR WITHIN PUBLIC RIGHT-OF-WAY

 6 HOTHY CITY AND COON CREEK WATERSHED DISTRICT (COWD) A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF COINSTRUCTION

 ALL ELECTRIC, TELEPHONE AND GAS EXTELISIONS INCLUDING SERVICE LINES SHALL BE CONSTRUCTED TO THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS ALL UTILITY DISCONMECTIONS SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY OF COMMENTS OF MICH OF SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY OF COMMENTS OF MICH OF SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY OF THE COMMENTS OF MICH OF SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY OF THE A SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY

STORM SEWER NOTES

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

 STORM SEWER SHALL BE:

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

 (b) HIDPE PIPE SHALL MEET THE REQUIREMENTS OF AASHTO MZM, TYPE S WITH WATERTIOHT CONINCE TIONS USE SANDIGRANULAR MATERIAL FOR BACKFILLING AND COMPACTION OF HOPEPPC PIPE IN ACCORDANCE WITH THE REQUIREMENTS OF ASIM 2321

 DO NOT BACKFILL CATCH BASINS UITH. FABRIC WRAP IS INSPECTED BY CITY

 TRASH GUARDS ARE REQUIRED FOR ALL FLARED-END SECTIONS LESS THAN 48° IN DIAMETER
- LESS THAN 48" IN DIAMETER PROVIDE CLASS III RIP-RAP W/FILTER FABRIC AT ALL PIPE

- OUTLETS

 OUTLETS

 THE LAST THREE SECTION OF CONCRETE PIPE, INCLUDING APRON, FOR CONCRETE PIPES IN SECTION OF THE AVENUE SERVING HE AVENUE SERVING HE HE AVENUE SERVING HE HE AVENUE SERVING HE HE AVENUE SERVING HE HE FLARED SECTION LAYING LENGTH OF FIRE FLARED SEID SECTION TO BE DEDUCTED FROM PAYMENT LENGTH OF PIPE 6 ARCH PIPE JOINTS MUST BE WRAPPED WITH FABRIC OR OTHER PROTECTION TO PREVENT SEDMENT FROM ENTERING PIPE.

 SEE SHEET C3 1 FOR STRUCTURE SCHEDULE

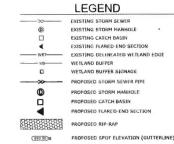
CURB & BITUMINOUS NOTES

- REMOVAL AND DISPOSAL OF EXISTING STREET MATERIALS AS
- REQUIRED FOR CONSTRUCTION IS CONSIDERED INCIDENTAL

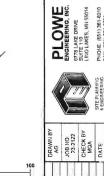
 2. ALL MATCH POINTS AND PAVEMENT PATCHES TO BE SAW-CUT AT
- FULL DEPTH

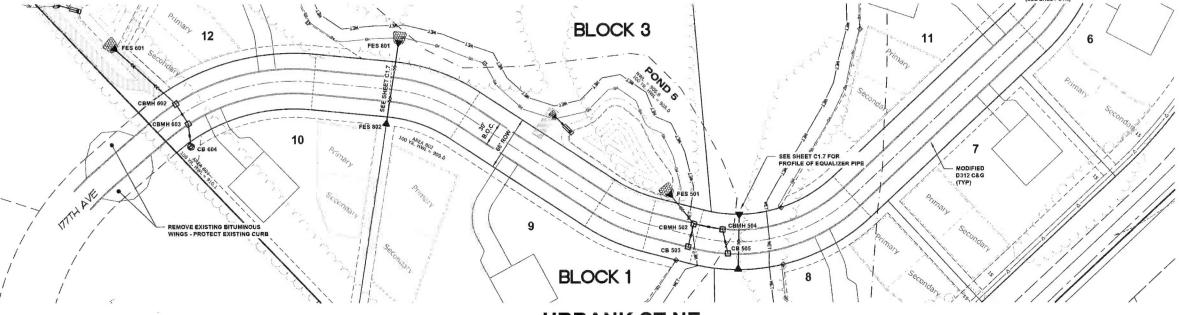
 RESTORE DISTURBED STREET TO EXISTING OR BETTER SECTION

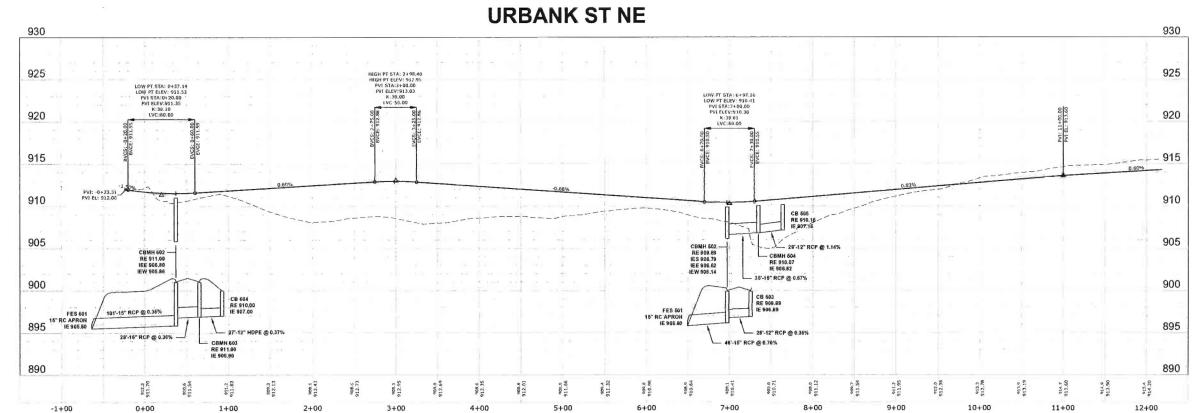
 BACKFILLING OF CURB IS INCIDENTAL TO CURB HISTALLATION











C1.3

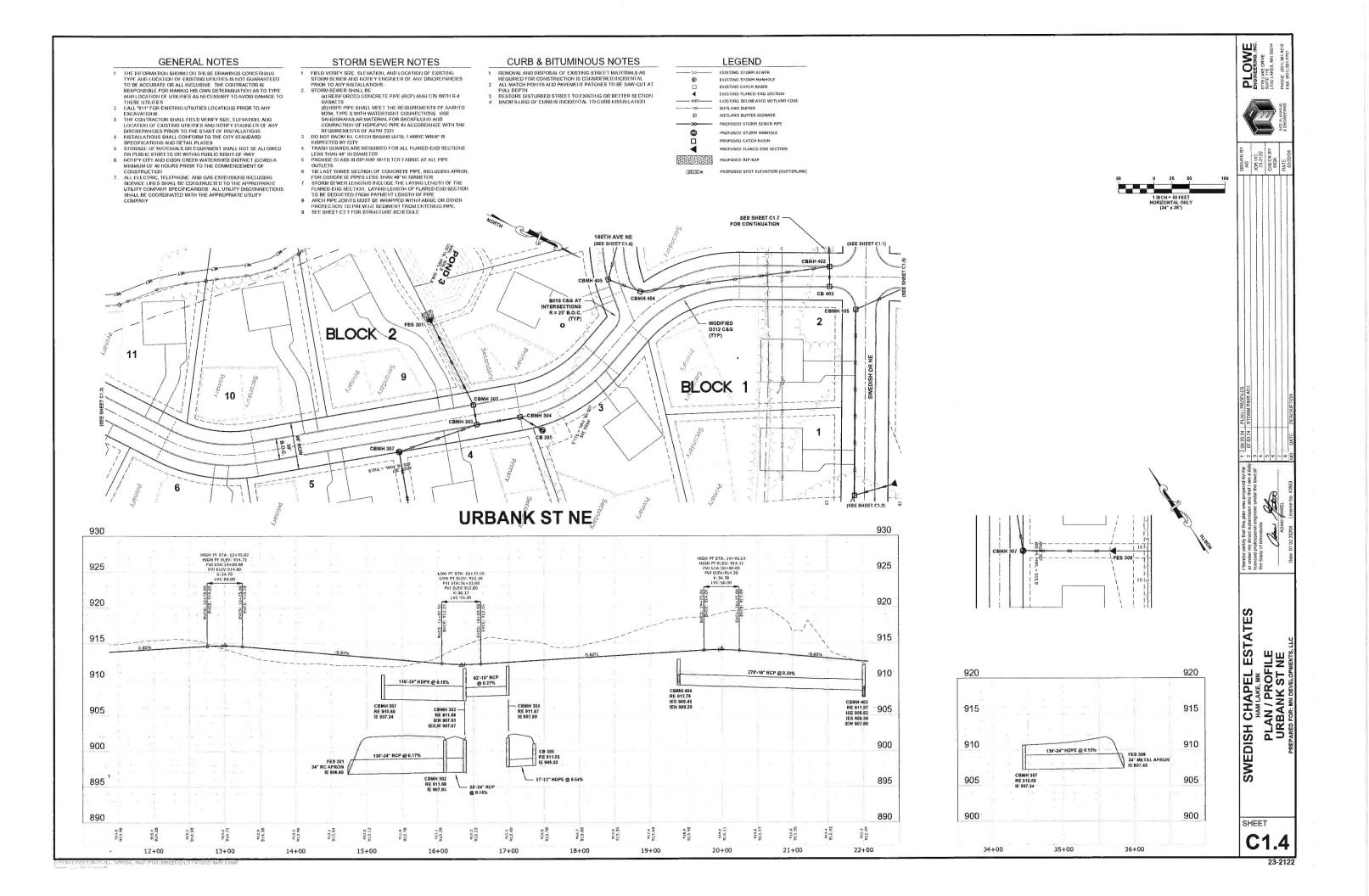
SHEET

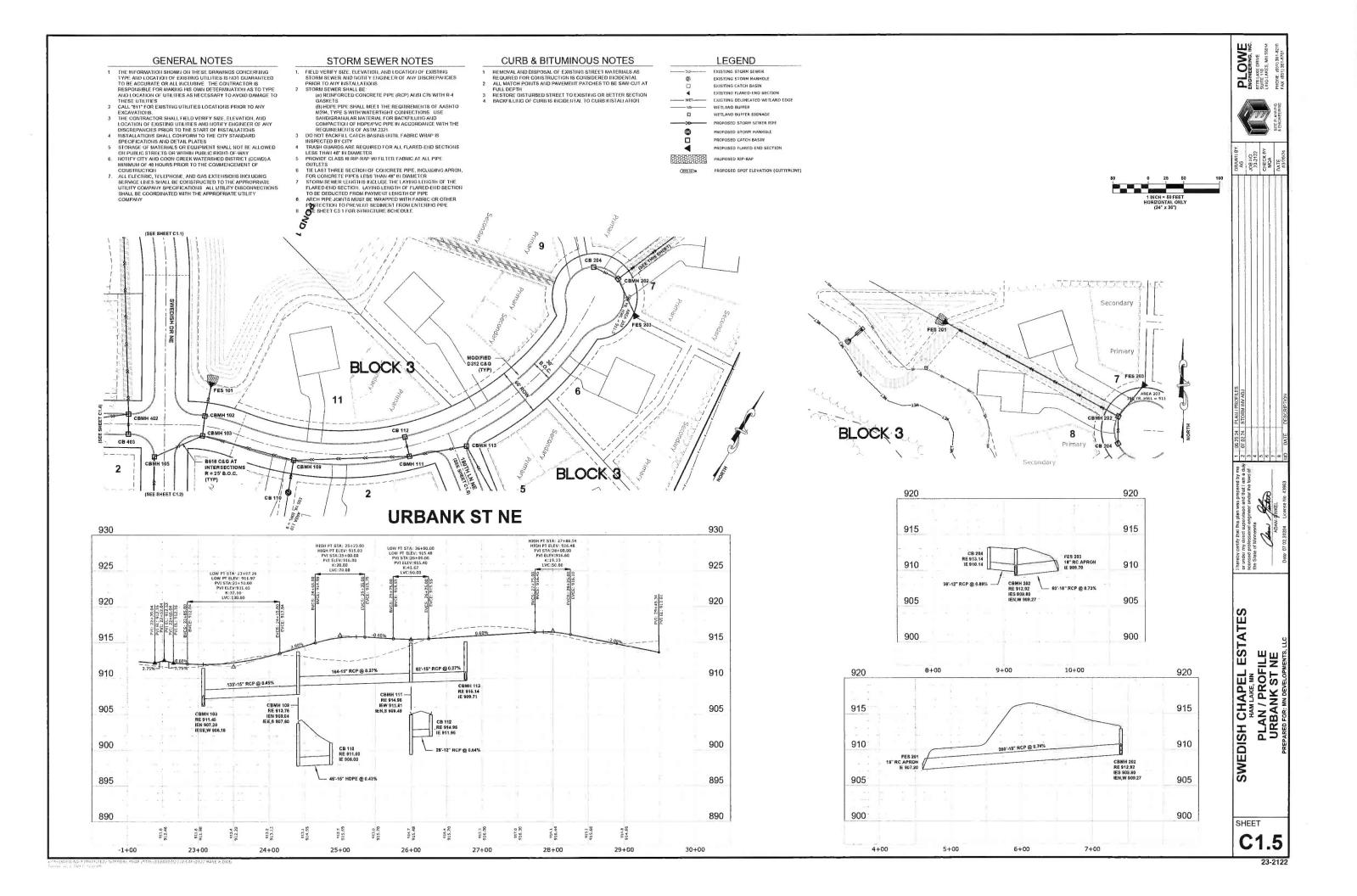
SWEDISH CHAPEL ESTATES

HAWLAKE, MN
PLAN / PROFILE

URBANK ST NE

PREPARED FOR: MN DEVELOPMENTS. LIC





GENERAL NOTES

- THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF EXISTING UTILITIES IS NOT GUARANTEED TO BE ACCUPATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TOOL FTO AND LOCATION OF UTILITIES AS RICESSARY TO AVOID DAMAGE.
- AND LOCATION OF UTILITIES 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 HOTHY ENGINEER OF ANY DISCREPANCIES PRIOR TO THE START OF INSTALLATIONS.

 4. 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 RIGHT-OF-WAY.

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

- MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

 7. ALL ELECTRIC, FELEPHONE AND GAS EXTENSIONS 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

- 1. FIELD VERIFY SIZE, ELEVATION, AND LOCATION OF EXISTING PRIOR TO ALLY INSTALLATIONS.
- PRIOR TO AIM INSTALLATIONS.

 STORM SEWER SHALL BE:

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

 (B) HÖPE PIPE SHALL MEET THE REQUIREMENTS OF AASHTO
 MAPM, TYPE S WITH WATERTIGHT CONINECTIONS USE
 SANDIGRANULAR MATERIAL FOR BACKFILLING AND
 COMPACTION OF HÖPEPVC PIPE IN ACCORDANCE WITH THE
 REQUIREMENTS OF ASTM 257.

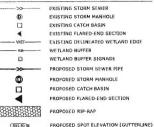
 DO NOT BACKFILL CATCH BASINS UNTIL FABRIC WRAP IS
 HISPECTED BY CITY
 TRASH GUARDS ARE REQUIRED FOR ALL FLARED-FIND SECTIONS
 LESS THAM 46" IN DIAMETER
 PROVIDE CLASS IN RIP-RAP W/FILTER FABRIC AT ALL PIPE
 OUTLETS

- 6 TIE LAST THREE SECTION OF CONCRETE PIPE, INCLUDING APRON.
- THE LAST THREE SECTION OF CONCRETE PIPE, INCLUDING APRON, FOR CONCRETE PIPE, LESS THAN 48' IN DIAMATER
 5 STORM SEWER LENGTHS HICLUDE THE LAYING LENGTH OF THE FLARED-END SECTION. LAYING LENGTH OF FLARED-END SECTION TO BE DEDUCTED FROM PAYMENT LENGTH OF FIPE
 8 ARCH PIPE JOINTS MUST BE WARPPED WITH FABRIC OR OTHER PROTECTION TO PREVENT SEDMENT FROM EMERING PIPE.
 9 SEE SHEET C3 1 FOR STRUGTURE SCHEDULE

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

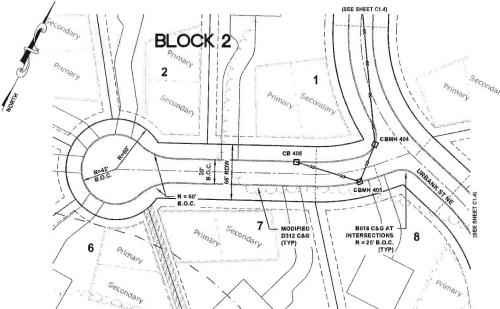
LEGEND EXISTING STORM SEWER EXISTING STORM MANHOLE EXISTING CATCH BASIN EXISTING FLARED-END SECTION EXISTING DELINEATED WETLAND EDGE WETLAND BUFFER WETLAND BUFFER SIGNAGE PROPOSED STORM SEWER PIPE PROPOSED STORM MANHOLE PROPOSED CATCH BASIN PROPOSED FLARED-END SECTION PROPOSED RIP-RAP

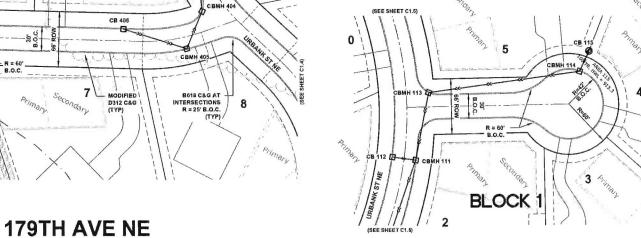


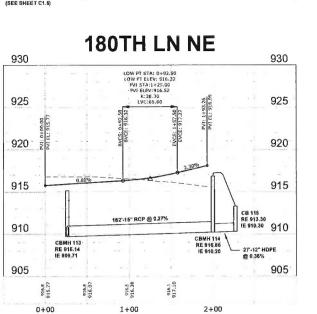


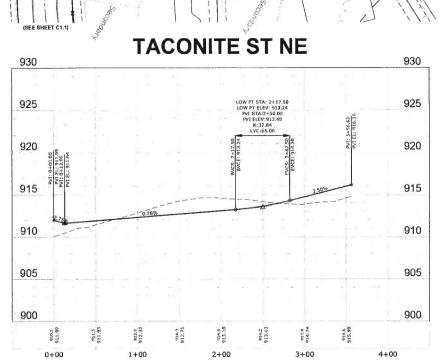
PLOWE ENGINEERING, INC.
GTG LAKE DRIVE
SUITE 11A
ELINO LAKES, MI 55014
PHONE (651) 361-8210
FAX (651) 361-8210

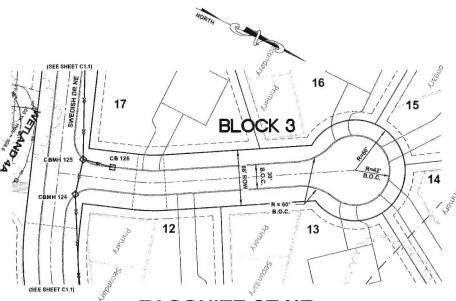










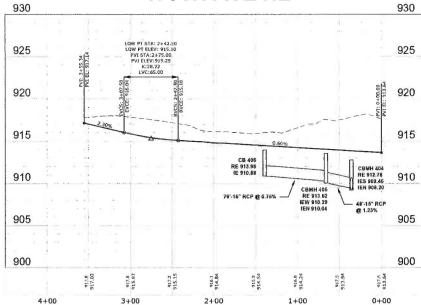


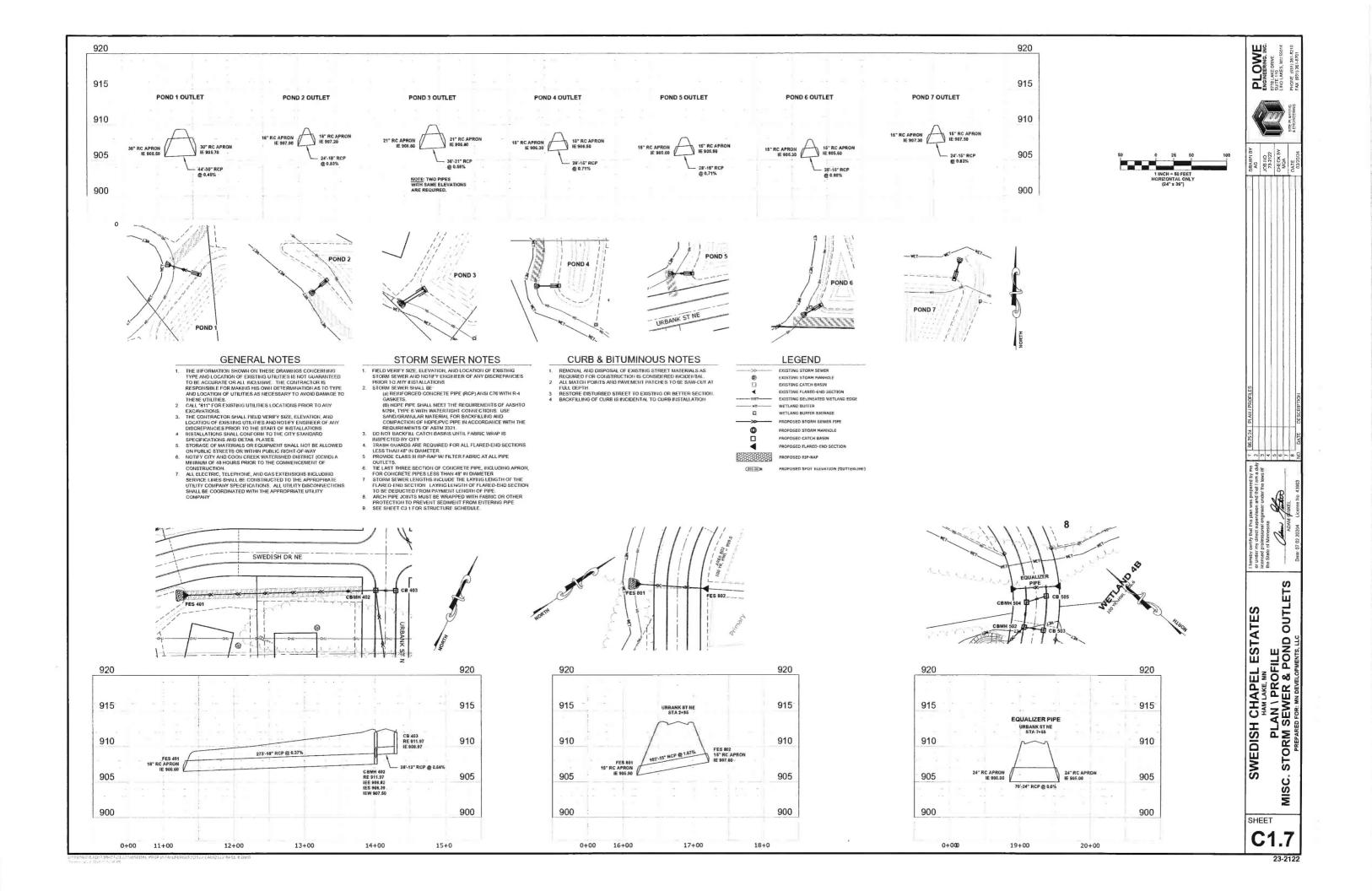


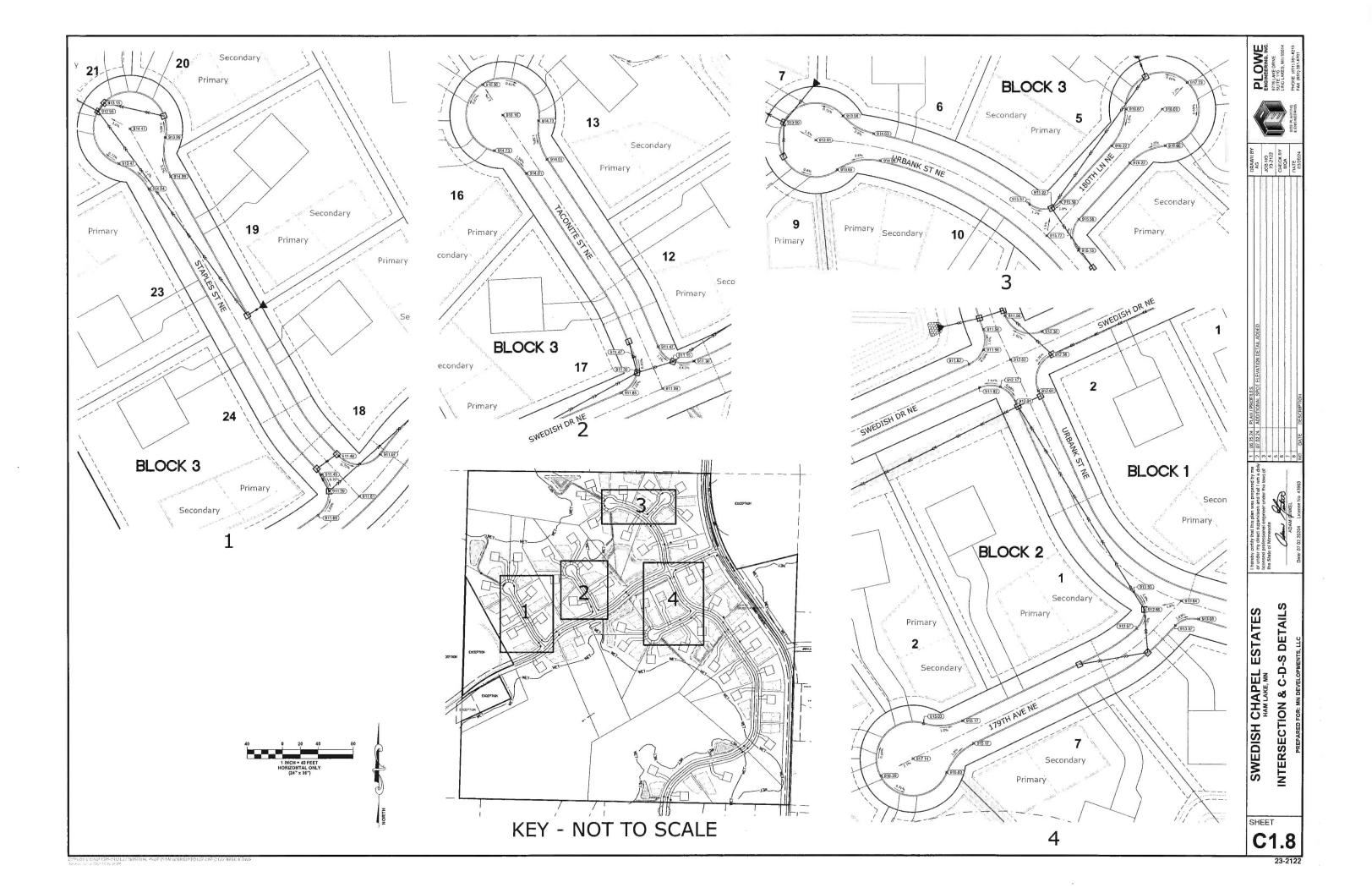
SHEET

C1.6









PROJECT TITLE SWEDISH CHAPEL ESTATES				DOCUMENTATION OF TRAINED INDIVIDUALS A INDIVIDUAL WHO PREPARED THE SWPPP	
				ADAM GINKEL PLOWE EHGINEERING, INC	
PROJECT LOCATION				6776 LAKE DRIVE LINO LAKES MN 55014	
2506 SWEDISH DR NE				(651) 361-8234 adam@plowe.com	
HAM LAKE, MH 55304 ANOKA COUNTY				B INDIVIDUAL(S) OVERSEEING IMPLEMENTATION OF, REVISING	AUDYOR AMENDING THE
LATITUDE. 45.29521 LONGITUDE -93.20970				SWPPP AND HIDDIVIDUALS PERFORMING MISPECTIONS FOR TO THESE HIDDIVIDUALS MUST BE AVAILABLE FOR AN OURSTE INS HOURS UPON REQUEST BY THE MPCA (MINN). R. 7090]	HE PROJECT. ONE OF
				CONTACT NAME	
DEVELOPER				CONTACT PHONE	
MN DEVELOPMENTS, LLC 17404 WARD LAKE DR NW ANDOVER, MN 55304				CONTACT E-MAIL	
CONTACT PHONE: (612) 779 147 CONTACT E-MAIL Stally88@msn	1			C INDIVIDUAL(S) PERFORMING OR SUPERVISING THE INSTALLAREPAIR OF BMPS. (MIRN) R 70P0]	TION, MAINTENANCE AND
GENERAL CONTRACTOR				CONTACT NAME	
TBD				CONTACT PHONE	
				CONTACT E-MAIL	
HARRATIVE - PERMANENT STORMWATE PERMANENT STORMWATER MANAGE PONDS SEE "STORMWATER DRAINA	EMENT FEATURES W	ILL INCLUDE S	SEVERAL NUI USSION	LORG TERM OPERATION AND MAINTENANCE OF PERMANENT STORM THE PROPOSED STORMWATER MAINGEMENT FEATURE FOR THE BASH AND WILL BE PRIVATELY OWNED AND MAINTAINED REVEGETATION SPECIFICATIONS	
SITE IMPERVIOUS AREAS				ITEM MNDOT SPEC	CIFICATION/NOTES
SITE WIT ENVIOUS MEAS	BEFORE	A	FTER		3878
41411777 4074	CONSTRUCTION	ON CONS	TRUCTION	SOD SEED **	3876
ANALYZED AREA TOTAL ESTIMATED IMPERVIOUS	0 89 ACRES	11 42 ACRES	5 ACRES	* FOR TURF ESTABLISHMENT	
TOTAL ESTIMATED PERVIOUS	110.53 ACRE	S 101.3	37 ACRES		5-131 (220 LBS/ACRE) 5-131 (120 LBS/ACRE)
					-112 (100 LBS/ACRE)
					-111 (100 LBS/ACRE) -113 (110 LBS/ACRE)
TOTAL DISTURBED AREA				1-2 YEARS COVER MNDOT MIX 22	-111 (30.5 LBS/ACRE)
-34 0 ACRES					2-112 (40 LBS/ACRE)
				MULCH 3882 (TYPE 1 HYDROMULCH	- DISC ANCHORED) 3884
				FERTILIZER	3881
				WOOD FIBER BLANKET 3885 (C	CATEGORY 2)
SITE MAP W. EXISTING AND FINAL GRAD SEE "STORMWATER DRAINAGE REP- DENOTING DRAINAGE AREA BOUND. WHERE STORMWATER LEAVES THE	ORT" FOR EXISTING A	AND PROPOS	ED AREA MAI D DISCHARGE	* MOW A MILIMUM OF RESIDENTIAL TURF - ONCE PER 2 WEEKS COMMERCIAL TURF - ONCE PER 4 WEEKS ** SEEDED AREAS SHALL BE EITHER MULCHED OR COVERED I	BY FIBROUS BLANKETS
				TO PROTECT SEEDS AND LIMIT EROSION	
RECEIVING WATERS WITHIN ONE MILE				QUANTITIES - ESTIMATED QUANTITIES FOR EROSION AND SEDIMENT	CONTROL MEASURES
NAME OF WATER BODY	TYPE OF WATER BODY	SPECIAL WATER	IMPAIRED WATER		QTY UNIT
UNITAMED WETLANDS	WE'TI AND	NO	HO	SILT FENCE	LINEAR FEET
COUNTY DITCH 58	DITCH	NO	NO	BIO-ROLLS	EACH
COUNTY DITCH 28	DITCH	NO	NO	RIP-RAP W. GEO-FABRIC	CUBIC YARDS
COON LAKE	LAKE	NO	YES	CATCH BASIN INLET PROTECTION	EACH
				STABILIZED RIPRAP OVERFLOW EROSION CONTROL BLANKET	EACH SQUARE YARDS
				SEED & MULCH (GEHERAL)	ACRE
DIFFED TO SUBSTICE WATER					EACH
if the SITE DRAINS TO A		SO-FT NATUR	IAL BUFFER AC	ROOK CONSTRUCTION ENTROPICE	EACH
BUFFER TO SURFACE WATER IF THE SITE DRAINS TO A THE SURFACE WATER PF JUDICIAL DITCHES, COU	RESERVED? IS ARE NOT REQUIRED	ADJACENT TO	ROAD DITCHE	ROCK CONSTRUCTION ENTRANCE NARRATIVE . TIMING FOR HISTALLATION OF EROSION AND SEDIMENT 1 A COPY OF THE APPROVED EROSION AND SEDIMENT CONTRE	T CONTROL

ROCK CONSTRUCTION ENTRANCE	EACH

I SITE AT ALL TIMES NCE AS SHOWN ON PLAN. CONTRACTOR SHALL HISTALL SUT FENCE AS SHOWN ON PLAN.

2.1 ADDITIONAL SUT FERICE MAY BE HECE SSAYUF IF LOCAL CONDITIONS REQUIRE.

2.2 THE CONTRACTOR SHALL MANITAIN SUT FENCE, INCLUDING THE REMOVAL OF ACCUMULATED SEDIMENT, THROUGH CONVECTION OF SUILDING CONSTRUCTION

2.3 SILT FENCE SHALL REMAIN IN PLACE UNTIL SITE HAS BEEN STABILIZED CONTRACTOR SHALL REMAIN IN PLACE WITH. SITE HAS BEEN STABILIZED WHERE CONSTRUCTION TRAFFIC WILL ENTERVEXT SITE CONTRACTOR TO HISTALL THESE PROTECTION FERGING AS APPLICABLE CONTRACTOR SHALL PERFORM SITE GRADING ON AN AREA BY-AREA BASIS TO MINIMAZE WITABILIZED ACCONTRACTOR SHALL PERFORM SITE GRADING ON AN AREA BY-AREA BASIS TO MINIMAZE WITABILIZED AREA SASSISTED.

5 CONTRACTOR SHALL PERFORM SITE GRADING OH AH AREA BY-AREA BASIS TO MINIMEE UNISTABILIZED AREAS
5.1. CONTRACTOR MUST IMMEDIATELY INTINIES TARBILIZATION OF EXPOSED SOIL AREAS, AS DESCRIBED IN ITEM 8 4 OF THE PERMIT, AND COMPLETE THE STABILIZATION WITHIN 24 HOURS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE TEMPORARITY OR PERMANEHILITY CEASES
5.2. CONTRACTOR TO PROVIDE TEMPORARY SEDIMENTATION BASINS AS REQUIRED IN SECTION 14.1 THROUGH 14 10
6. CONTRACTOR TO SHALL PAY SPECIAL ATTENTION TO ADJACED PROPERTY LINES TO ENSURE THE ERROSION ON ONTROL PRACTICES IN PLACE IN THOSE AREAS PREVENIT MIGRATION OF SEDIMENT ONTO ADJACED PROPERTY.

ALL ERROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS OR IMPLEMENTED IN THE FIELD SHALL BE IN ACCORDANCE WITH THE CITY AND INPOSE PHASE I PERMIT PROPERTY PLANS OR IMPLEMENTED IN THE FIELD SHALL BE IN ACCORDANCE WITH THE CITY AND INPOSE PHASE IN PERMIT PROPERTY PLANS OR

PHASE II PERMIT REQUIREMENTS.
CONTRACTOR TO PROVIDE ADDITIONAL SILT FENCE, BIOROLLS, EROSION CONTROL
BLANKET, OR OTHER APPROVED EQUAL FOR ANY SLOPES THAT APPEAR TO BE CONTRACTOR TO STABILIZE SOIL STOCKPILES, STABILIZATION SHALL BE INITIATED

IMMEDIATELY

10 CONTRACTOR SHALL FINAL GRADE SWALE AREAS UPON STABILIZATION OF UPSTREAM

AREAS

1 CONTRACTOR SHALL BE RESPONSIBLE TO SWEEP/SCRAPE ADJACENT STREETS WHEN MATERIALS OR DEBRIS HAVE WASHED/ALOWED ONTO ADJACENT STREETS OR AS DIRECTED BY CITY

12 COORDINATE SMALL UILLITIES INSTALLATIONS (GAS, PHONE, ELECTRIC, CABLE, HIEROPTIC, ETC.) ATTER PAYEMENT INSTALLATION.

CONSTRUCTION MALE THE REMOVAL OF SURFACE OR GROUND WATER TO DRY ALD/OR SOLIDBY A CONSTRUCTION STIET TO ENABLE CONSTRUCTION AS THE TOP ENABLE CONSTRUCTION AND THE TOP ENABLE CONSTRUCTION AND THE TOP ENABLE OF SURFACE OF SUCH WATER IS CONTRACTED INSCHARGE OF SUCH WATER IS CONTRACTED FROM THE TOP OF SURFACE OF SUCH WATER IS CONTRACTED FROM THE TOP OF THE TO

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

IN JURIS OF THE CONTRACTOR' MEARS THE PARTY WHO SIGNS THE CONSTRUCTION CONTRACT WITH THE OWNER TO CONSTRUCT THE FITTINE PROJECT DESCRIBED IN THE FIRM. PLANS AND SPECIFICATIONS WHERE THE CONSTRUCTION PROJECT HINGONES MORE THAN ONE CONTRACTOR. THE GEHERAL CONTRACTOR IS THE PARTY RESPONSIBLE FOR MANAGING HE ENTIRE PROJECT ON BEHAVIOR OF THE OWNER BY SOME CASES. THE OWNER IS THE GEHERAL CONTRACTOR IN THESE CASES. THE OWNER IS INTEGER OF THE PARTY APPLICATION AS THE OPERATOR AND BECOMES THE SOLD FERMINE FROM IT 7009.

TO THE CONTINUE AND THE CONTINUE OF THE SURFACE OF THE EARTHIN THE SATURATED ZONE MOAL DESIGNATIONS THE SATURATED ZONE MOAL DOING, WITHOUT LIMITATION, ALL WASTERS WHETHER UNDER CONFINED, UNDOMFINED, OR PERCHED COLDITIONS, IN HEARS SURFACE UNDOSTRUCTURED SEDMENT OR REGOLITH, OR IN ROCK FORMATIONS DEEPER UNDERGROUND [MINN R.

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

THE ASTRUCT MEANS NOT TECHNOLOGICALLY POSSIBLE OR NOT ECONOMICALLY PRACTICABLE AND ACHIEVABLE IN LIGHT OF THE BEST INDUSTRY PRACTICES [MINH R

THINTATED IMMEDIATELY MEAHS TAKING AN ACTION TO COMMENCE SOIL STABILIZATION AS SOON AS PRACTICABLE BUT NO LATER THAN THE EID OF THE WORK DAY, FOLLOWING HE DAY WHICH THE LAILD DESTURBING ACTIVITIES TEMPORARY OF PERMANETALLY CEASE, IF THE PERMITTES KNOW THAT CONSTRUCTION WORK ON THAT PORTION OF THE CONTRIBUTION OF THE CONTRIBUTION OF THE CONTRIBUTION DAYS WHERE THEM 23 9 PPRIES PERMITTES CAN HATMATE STABILIZATION BY

A PREPPING THE SOIL FOR VEGETATIVE OR NON-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

D. STARTING ANY OF THE ACTIVITIES IN A - C ON A PORTION OF THE AREA TO BE STABILIZED, BUT NOT ON THE ENTIRE AREA: OR

E FINALIZING ARRANGEMENTS TO HAVE STABILIZATION PRODUCT TULLY INSTALLED IN COMPLIANCE WITH THE APPLICABLE DEADLINE FOR COMPLETING STABILIZATION [MINN R 7090]

[MINI R 7000]

**MEREMOUS SURFACE MEARS A CONSTRUCTED HARD SURFACE THAT EITHER PREVEITS
OR RETARDS THE EITHEY OF WATER HITD THE SOIL AND CAUSES WATER TO RUN OF THE
SURFACE HIS GREATER OUNTILES AND AT AN INTERESAST PART OF THO PRIOR TO
DEVELOPMENT. EXAMPLES HICLUDE ROOT TOPS, SIDEWARS, DRIVEWAYS, PARKING LOTS,
AND CONCRETE, ASPHALT, OR GRAVEL ROADS INSCREES OVER SURFACE WATERS ARE
CONSIDERED IMPERVIOUS SURFACES (BIHER IR 1600)

"NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (RIPDES)" MEARS THE PROGRAM FOR ISSUIRS, MODIFYIRS, REVOKING, REISSUING, TERMINATING, MOINTORING, AND EMPORENCE OF THE REVOKING PRESSUING, TERMINATING, MOINTORING, AND EMPORENCE OF THE REVOKING PROGRAMS AND ASSOCIATION OF THE PROGRAMS OF

THATURAL BUFFER MEANS ANAREA OF UNDISTURBED COVER SURROUNDING SURFACE WATERS WITHIN WHICH CONSTRUCTION ACTIVITIES ARE RESTRICTED NATURAL BUFFER BINCLUDES THE VEGETATION. EXPOSED ROCK, OR BARREIL GROUND THAT EXISTS PRIOR TO COMMENCEMENT OF EARTH-DISTURBING ACTIVITIES, IMINN R 7090]

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

""OPERATOR" MEANS THE PERSON (USUALLY THE GENERAL CONTRACTOR), FIRM, OPERATION MEASURE PROVIDED THE PERMIT OF THE OWNER WHICH A GENERAL CHARLEST AND A GENERAL CHARLEST AND A CHARLE

THE GELERAL CONTRACTOR ARE NOT OREATORS JINNIN & 7080)
"OWNER READS THE PERSON, IRM, GOVERNMENTA, AGEICY, OR OTHER ENTITY
POSSESSING THE TITLE OF THE LAND ON WINGOTHE CONSTRUCTION ACTIVITIES WILL
OCCUP OR IF THE CONSTRUCTION ACTIVITY IS FOR A LEASE, EASEMENT, OR MILIEBAL
RIGHTS LICEUSE HOLDER, THE PARTY OR INDIVIDUAL IDENTIFIED AS THE LEASE,
EASEMENT OR MIERAR RIGHTS LICEUSE HOLDER, OR THE CONTRACTIVING GOVERNMENT
AGEICY RESPONSIBLE FOR THE CONSTRUCTION ACTIVITY, IMMILE 7, 7000)

AGEINZY RESPONSIBLE FOR THE CONSTRUCTION ACTIVITY, IMMIN R 7000]

FERNAMIENT COVER MEANS SURFACE TYPES THAT WILL PREVENT SOIL FALURE UNDER EROSEVE CONDITIONS. EXAMPLES INCLUDE GRAVEL, CONCRETE, PERENNIAL COVER, OR OTHER LANDSCAPED MATTERAL THAT WILL PERMAMETHLY ARREST SOIL EROSION FERMAL PERMATERS AND THE STAND AND THE PERMATERS IN THE COVER, OR DISTRIBUTED, WITHOUT LANGE BARE AREAS) WITH A DETISTY OF TO THE CENTRY OF THE PERMANENT STRUCTURES, OR EQUIVALENT PERMATERS SOICH AS WOOD PIBER BLANKET, MALCH, AND ROLLED EROSION CONTROL OF THE MORPH AND THE ADMINISTRATION INCLUDED THE PERMATERS SOICH AS WOOD PIBER BLANKET, MALCH, AND ROLLED EROSION CONTROL OF THE PERMATERS SOICH AS WOOD PIBER BLANKET, MALCH, AND ROLLED EROSION CONTROL OF THE ADMINISTRATION OF THE ADMINISTRATION OF THE PERMATERS OF THE OWNER AND OPERATION OF THE APPLICATION SUBMITTED TO THE MICH AND AND THE PERMATERS OF THE OWNER AND OPERATION OF THE APPLICATION SUBMITTED TO THE MICH AND AND THE PERMATERS OF THE OWNER AND OPERATION OF THE APPLICATION SUBMITTED TO THE MICH AND AND THE PERMATERS OF THE OPERATION OF THE APPLICATION SUBMITTED TO THE MICH AND AND THE PERMATERS OF THE PERMATERS OF THE OWNER AND OPERATION OF THE APPLICATION SUBMITTED TO THE MICH AND AND THE PERMATERS OF THE OWNER AND OPERATION OF THE APPLICATION SUBMITTED TO THE MICH AND AND THE PERMATERS OF THE OWNER AND OPERATION OF THE APPLICATION SUBMITTED TO THE MICH AND AND THE PERMATERS OF THE PERMATERS

"PROJECTIS'S MEANS ALL CONSTRUCTION ACTIVITY PLANNED AUDIOR CONDUCTED UNIDER A PARTICULAR PERMIT THE PROJECT OCCURS ON THE SITE OR SITES DESCRIBED IN THE FERMIT APPLICATION, THE SWIPP AND IN THE ASSOCIATED PLANS, SPECIFICATIONS AND CONTRACT DOCUMENTS. [MINH R 7090]

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

SEDIMENT CONTROL MEANS METHODS EMPLOYED TO PREVENT SUSPENDED SEDIMENT IN \$10 RMWATER FROM LEAVING THE SITE (E.G. SILT FENCES, COMPOST LOGS AND STORM DRAW IN LEFT PROTECTION), MINN. R. 7000.

JAGNATRILET PROJECTIONS (MINN. R. 1989)

"STABILIZE": "STABILIZE": "STABILIZATION MEANS THE EXPOSED GROUND SURFACE HAS BEET COVERED BY APPROPRIATE MATERIALS SUCH AS MULCH STAKED SOD, RIDRAP, EROSION CONTROL BLANKET, MATS OR OTHER MATERIAL THAT PREVENTIE GEOSION FROM COCUMENTO GRASS SEEDING, ACRICUS TURNI. CROP SEEDING OR OTHER SEEDING ALONE IS NOT STABILIZATION MULCH MATERIALS MUST ACRIEVE APPROXIMATELY 90 PERCENT GROUND COVERAGE (TPPOCALTY) TOWACKEY, MINN R. 1989)

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

STORM WATER POLUTION PREVENTION PLAN (SWPPP)" MEANS A PLAN FOR STORMWATER DISCHARGE THAT INCLUDES ALL REQUIRED CONTEAT UNDER IN SECTION 5 THAT DESCRIBES THE EROSION PREVENTION, SEDMENT CONTROL AND WASTE CONTROL BMPS AND PERMANENT STORMWATER TREATMENT SYSTEMS, MININ IT 7090]

SUFFACE WATER OR WATERS' MEAIS ALL STREAMS, LAKES, POIDS, MARSHES, WEILANDS, RESERVOIRS, SPRINGS, RIVERS, DRAINAGE SYSTEMS, WATEROOKS, SPRINGS, RIVERS, DRAINAGE SYSTEMS, WATEROOKS, AND IRRIGATION SYSTEMS WHETHER INATURAL OR ARTIFICIAL, PUBLIC OF PRIVATE, EXCEPT THAT SUFFACE WATERS DO NOT INCLUDE STORMWATER TREATMENT SYSTEMS CONSTRUCTED FROM UPLAND. THIS PERMIT DOES NOT CONSIDER STORMWATER TREATMENT SYSTEMS CONSTRUCTED IN WETLANDS AND MITIGATED IN ACCORDANCE WITH SECTION 22 AS SURFACE WATERS. [MINIT R. 7090]

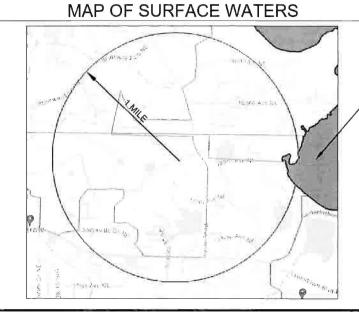
ACLOSARAGE, WINDELLION 2285 SURFACE WAVES, INSTAIL R. NOV.
WATERS OF THE STAILE 'AS DEVINED INMINE, STAT, SECT 115.01, SUSP. 22) MEANS ALL
STREAMS, LAMES, R'MISÉS, MARSHES, MATERCOURSES, MATERWAYS, WELLS, SPRINGS,
RESERVOIRS, AQUISEEN, SIRINGATION SYSTEMS, DRAILAGE SYSTEMS AND ALL OTHER
BODIES OR ACCAMILIATIONS OF WATER, SURFACE OR UNDERGROUND, NATURAL OR
ARTHEICAL, PUBLIC OR PRIVATE, WHICH ARE COLTIANIED WITHIN, FLOW THROUGH, OR
BORDER UPON THE STATE OR ANY PORTION THEREOF, [MINH STAT, 115.01, SUBP. 22] "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]

"WETLANDS" (AS DEFINED IN MINN, R. 7050.0186, SUBP. 1A.B.) MEANS THOSE AREAS THAT "WETLANDS" (AS DEFINED HI MINN R 7008-0986, SURP 1A B) MEANS THOSE, AREAS THAT ARE INJURIANDED OR SATURATED BY SURFACE WHITER OR GROUNDWAYTER AT A HEROCHERCY AND DURATION SUFFICIENT TO SUPPORT, AND UNDER NORMAL CIRCUMSTRANDED SOLIC CONTROL APPENDATION SUFFICIENT, AND UNDER NORMAL ADAPTED FOR LIFE HI SATURATED SOLI CONDITIONS WETLANDS GETERALLY HIXLUDE SWAMPS, MARSHES, BOOK, AND SIMILAR AREAS CONSTRUCTED WETLANDS DESIGNED FOR WASTEWATER TREATMENT ARE NOT WATERS OF THE STATE. WETLANDS MUST HAVE THE FOLLOWING ATTRIBUTES.

1 A PREDOMINANCE OF HYDRIC SOILS; AND

2. IFUNDATED OR SATURATED BY SURFACE WATER OR GROUNDWATER AT A FREQUENCY AND DURATION SUFFICIENT TO SUPPORT A PREVALENCE OF HYDROPHYTIC VEGETATION TYPICALLY ADAPTED FOR LIFE IN A SATURATED SOIL COLIDITION, AND

3 UNDER NORMAL CIRCUMSTANCES SUPPORT A PREVALENCE OF SUCH VEGETATION [MINN, R. 7050 0186, SUBP. 1A.B]



APPROVED TMDL PLAN FOR MERCURY IN FISH TISSUE

DRAWN BY AG JOB NO: 23-2122 CHECK BY MGA

SERING, II

ENGINE 8776 LAK SUTE 11 LING LAF PHONE 2AX (65

ESTATI CHAPEL HAM LAKE, MN SWPPP WEDISH

or under licensed properties

SHEET

C2.1

TEMPORARY SEDIMENTATION BASINS

ADDITIONAL STORMWATER MITIGATION MEASURES

INFILTRATION FEASIBILITY

F TEN (19) OR MORE ACRES OF DISTURBED SOIL DRAIN TO A COMMON YES NO FIRA LLCCATION, IS A TEMPORARY SEDIMENT BASIN PROVIDED FOR TREATMENT OF THE RUNGET BEFORE IT LEAVES THE CONSTRUCTION SITE OR ENTERS

ARE THERE ANY INFILTRATION RESTRICTIONS FOR THE SITE (SEE 16.14 YES IND. IVA. THROUGH 16.21?

ARE THERE ANY STORMWATER MITIGATION MEASURES PER YES NO . ENVIRONMENTAL DEVICEM POSSIBILITY

ENVIRONMENTAL REVIEW DOCUMENT?

ENDANGERED SPECIES REVIEW? ARCHAEOLOGICAL REVIEW? OTHER LOCAL STATE OR FEDERAL REVIEW?

A) BECAUSE THIS SITE IS WITHIN ONE MILE OF AN IMPAIRED WATER, THIS

REQUIREMENT BECOMES FIVE (S) MILES. THE CONTRACTOR SHALL PROVIDE TEMPORARY SEDIMENT BASINS AS NEEDED.

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

OTHER LOCAL STATE OR FEDERAL REVIEW?
 If YES TO ALIVO OF THE ABOVE, DESCRIBE THE MITIGATION MEASURES FOR FURPOSES OF THIS PERMIT, MITIGATION MEASURES MEANS ACTIONS HECESSARY TO AVOID, MIRIMATE OR MITIGASTE FOR BIPACTS RELATED TO EROSION PREVEITION, SEDIMENT CONTROL, THE PERMANETT STORMWATER TREATMENT SYSTEM, POLLUTION IPPEVENTION MADELMENT MEASURES AND DISCHARGES ASSOCIATED WITH THE PROJECTS CONSTRUCTION ACTIVITY.

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

AJ PERMITTEES 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 SUDMISSION DATE OF THE NOT. [MINN. R. 7090]

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

- A. CONSTRUCTION ACTIVITY HAS CEASED FOR AT LEAST 90 DAYS; AND
- B. AT LEAST 90 PERCENT (BY MEA) OF ALL ORIGINALLY PROPOSED CONSTRUCTION ACTIVITY HAS BEEN COMPLETED AND PERMANENT COVER HAS BEEN ESTABLISHED ON THOSE AREAS, AND CO. 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 ITEM, ANY SUBSEQUENT DEVELOPMENT ON THE REMAINING PORTIONS OF THE SITE WILL REQUIRE PERMIT COVERAGE IF THE SUBSEQUENT DEVELOPMENT THE FEMALINING COMMON PLAN OF DEVELOPMENT OR SALE WILL RESULT IN LAND DISTURBING ACTIVITIES OF ONE (1) OR MORE ACRES IN SIZE, IMINN R. 7090.

4.5 PERMITTEES MAY TERMINATE COVERAGE UPON MPCA APPROVAL AFTER SUBMITTING INFORMATION DOCUMENTING THE OWNER CARCELED THE PROJECT. IMINN. B. 70901

6.1 SWPPP AMENDMENTS, [MINN, R. 7090]

6.7 ONC OF THE INDIVIDUALS SECRETED IN TIEM 21.2.A OR TIEM 21.2.B OR ANOTHER QUALIFIED INDIVIDUAL MUST COMPLETE ALL SWPPP CHANGES. CHANGES INVOLVING THE USE OF A LEGS STRIKENT BURN MOST INCLUDE AUGUST AUGU AS PRINTEES MUST AMEND THE SWPPP TO INCLIDE ADDITIONAL OR MODIFIED BINGS AS RECESSARY TO COR PROBLEMS IDENTIFIED OR ADDRESS SITUATIONS WHENEVER THERE IS A DYANGE IN DESIGN, CONSTRUCTION, MAINTENANCE, WEATHER OR SEASONAL CONDITIONS INVING A SIGNIFICANT EFFECT ON THE DISCHARGE OF PC TO SURFACE, WATERS OR GROUNDWATER, (MINN, IR. 7090)

TO SURFACE WATERS OR GROUNOWATER, [MINN. II, 7990]

6.4 PERMITTEES MUST AMEAD THE SWEPP TO INCLUDE ADDITIONAL OR MODIFIED BMPS AS NECESSARY TO CORRECT PROBLEMS IDENTIFIED OR ADDRESS STRUATIONS WHEREVER INSPECTIONS OR INVESTIGATIONS BY THE SITE OWNER OPERATOR, USEP OR MEND OFFICIALS INDICATE THE SWEPP IS NOT EFFECTIVE IN FLUMINATING OR SIGNIFICATE THE SWEPP IS NOT EFFECTIVE IN FLUMINATING OR SIGNIFICATION OF THE SWEPP IS NOT CONSISTENT WITH THE DISCHARGES ARE CLOWED AND ADDRESS OF THE OFFICE OF THE DISCHARGES ARE CLOWED AND ADDRESS OF THE OFFICE OF THE OFFICE OF THE SWEPP IS NOT CONSISTENT WITH THE OBJECTIVES OF A USERA APPROVED THAD. [MINN. R. 7050.0210]

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

7.2 PERMITTEES MUST SELECT, INSTALL, AND MAINTAIN THE BUPS 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. IMINN. R. 70901

8.1 FROSION PREVENTION PRACTICES, [MINN. R. 2090]

8.2 BEFORE WORK BEGINS, PERMITTEES MUST DELINEATE THE LOCATION OF AREAS NOT TO BE DISTURBED. [MINN. R.

8.3 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., SUPET DUSTING AND TERRORIOS), [MINN. X. 7801]

A.4 PERMITTEES MIST STABLIZE ALL EXROSES DOLI RAMES, INCLUDING STOCKPILES. STABLIZATION MUST BE INITIATED IMMEDIATELY TO LIMIT SOIL EROSION WHEN CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 7 CALENDAD ADDRESS, STABLIZATION MUST BE COMPLETED NO LATER THAN 24 HOURS AFTER THE CONSTRUCTION ACTIVITY HAS CEASED. STABLIZATION IS NOT REQUIRED ON CONSTRUCTED DASE COMPONENTS OF ROADS, MARKING LOTS AND STIMLAUS METACES. STABLIZATION IS NOT REQUIRED ON TEMPORARY STOCKPILES WITHOUT SIGNIFICANT SILT, CLAY OR ORGANIC COMPONENTS (E.G., CLEAN AGGREGATE STOCKPILES, DATED STOCKPILES, BUT PERMITTEES MUST PROVIDE SEDIMENT CONTROLS AT THE BASE OF THE STOCKPILE, MINN. R. 7090]

8.5 FOR PUBLIC WATERS THAT THE MINNESSTA DIRECTION OF HAS PROMULGATED "WORK IN WATER RESTRICTIONS" DURING SPECIFIED FISH SPAWNING THAE FRANES, PERMITTEES MUST COMPLETE STABILIZATION OF ALL EXPOSED SOIL AREAW WITHIN 200 FEET OF THE WATER'S EDGE, AND THAT DRAIN TO THESE WATERS, WITHIN 24 HOURS DURING THE RESTRICTION PERIOD. [MINN. R. 7090]

RESIMECTION PERIOD. [MINN. R. 7090]

8.6 PERMITTEES MUST STABILIZE THE NORMAL WETTED PERIMETER OF THE LAST 200 LINEAR FET OF TEMPORARY OR PERMANENT DIARNAGE DITCHES OR SWALES THAT DRAIN WATER FROM THE SITE WITHIN 24 HOURS ATTER CONNECTING TO A SURFACE WATER OR PROPERTY EDGE. PERMITTEES MUST COMPLETE STABILIZATION OF REMAINING PORTIONS OF TEMPORARY OR PERMANENT DITCHES OR SWALES WITHIN 14 CALEDDAR DAYS ATTER CONNECTION TO A SURFACE WATER OR PROPERTY EDGE AND CONSTRUCTION IN THAT PORTION OF THE DITCH TEMPORARILY OR PERMANENTLY CEASES. [MINN R, 7990]

8.7 TEMPORARY OR PERMANENT DITCHES OR SWALES BEING USED AS A SEDIMENT CONTAINMENT SYSTEM DUR CONSTRUCTION (WITH PROPERTY DESIGNED ROCK-DITCH THEKES, BIO ROLLS, BILT DIKES, ETC.) DO NOT NEED TO BE STALLED FOR THE PROPERTY DESIGNED ROCK-DITCH THEKES, BIO ROLLS, BILT DIKES, ETC.) DO NOT NEED TO BE STALLED FOR THE STEED ROLLS FOR THE STALLED ROLLS. BILD ROLLS, BILT DIKES, ETC.) DO NOT NEED TO BE CONTAINMENT SYSTEM CASES, MINN. R., 2009.

CONTINUENCE STRICT CENSES, FUNCE, R. 7.094]
8.8 PERMITTERS MUST NOT USE MULCH, HYDERMALCH, TACKIFIER, POLYACRYLAMIDE OR SIMILAR EROSION PREVENTION PRACTICES WITHIN ANY PORTION OF THE MORRAL, WETTED PERIMETER OF A TEMPORARY OR PERMANENT DRAINAGE DITCO ROTALES WITHIN ANY PORTION OF THE MORRAL WETTER OF GREATER THAN 2 PERCENT, IMMN. R. 7.090.

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]

2.2 PERMITTEES MUST ESTABLIS 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 GUITTE SYSTEMS. PERMITTEES MUST LOCATE SEDIMENT CONTROL PRACTICES UPGRADIENT OF MUST BUFFER ZONES PERMITTEES MISSING LIBERT OF THE SEDIMENT CONTROL PRACTICES DEFORE ANY DEGRADIENT LAND DISTURBING ACTIVITIES BEGIN AND MUST KEEP THE SEDIMENT CONTROL PRACTICES IN PLACE UNTIL THEY SEDIMENT COVER, UNINN. R. 7989]

9.3 IF DOWNGRADIENT SEDIMENT CONTROLS ARE OVERLOADED, BASED ON FREQUENT FAILURE OR EXCESSIVE MAINTENANCE REQUIREMENTS, PERMITTEES MUST INSTALL ADDITIONAL DIGRADIENT SEDIMENT CONTROL PAR REDUIDANT BMPS TO ELIMINATE THE OVERLOADING AND AHEN THE SWPPP TO IDENTIFY THESE ADDITIONAL OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER REDUNDANT BMPS TO ELIMINATE THE OVERL AS REQUIRED IN ITEM 6.3. [MINN. R. 7090]

As REQUIRED IN 11 OF PRINTED TO SELECTION. AND SEDIMENT BASINS DESIGNED AS PART OF A SEDIMENT CONTAINMENT SYSTEM (E.G., DITCHES WITH ROCK-CHECK DAMS) REQUIRE SEDIMENT CONTROL PRACTICES ONLY AS APPROPRIATE FOR SITE CONDITIONS. (MINN. R. 7.909)

APPROPRIATE FOR SITE CONDITIONS. [MINN. R. 7090]

9.5 A FLOATING SLIT CURSTAIN PLACED IN 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 NUST INS
AN UPLAND PERIMETER CONTROL PRACTICE IT EXPOSED SOILS STILL DRAIN TO A SURFACE WATER, [MINN. R. 7090]

9.6 PERMITTEES MUST RE-INSTAL 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, PRACTICES MISTERS MUST RE-INSTALL SEDIMENT CONTROL PRACTICES BEFORE THE PRECIPITATION EVENT EVEN JE 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]

29.8 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/HINNESOTA DEPARTMENT OF TRANSPORTATION ENGINEER). PERMITTEES MUST DOCUMENT THE NEED FOR REMOVAL IN THE SWPPP. [MINN. R. 7090]

9.9 PERMITTEES MUST PROVIDE SILT FENCE OR OTHER EFFECTIVE SEDIMENT CONTROLS AT THE BASE OF STOCKPILES ON THE DOWNGRADIENT PERMETER. (MINN. P. 7non1

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. IMINN. 8, 70901

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 FERMITTEES MUST DIRECT DISCHARGES FROM BIPS TO VICELIFIED AREAS UNLESS INFEASIBLE, IMINN IN. 7090]
9.19 FERMITTEES MUST PRESERVE A 50 FOOT ANTURAL BUFFER OR, IF A BUFFER IS INFEASIBLE ON THE SITE, PROVIDE
REDUNDAMY (DOUBLE) PERIMETER SESIMENT CONTROLS WHEN A SURFACE WATER IS LOCATED WITHIN 50 FEET OF THE
PROJECTS EARTH DISTURBANCES AND STORMWATER FLOWS TO THE SURFACE WATER. PERIMITEES MUST INSTELL
PERIMETER SEDIMENT CONTROLS AT LEAST 5 FEET PART UNLESS LIMITED BY LACK OF AVAILABLE SPACE, NATURAL
BUFFERS ARE NOT REQUIRED ADJACENT TS AND DITCHES, JUDICIAL DITCHES, COUNTY DITCHES, STORMWATER
CONVEYANCE CHANNELS, STORM DRAIN INLETS, AND SECIMENT BASINS. IF PRESERVING THE BUFFER IS INFEASIBLE,
PRAINTIESS MUST DOCUMENT THE REASONS IN THE SWAPPS, SHEET PILLING IS A REDUNDANT PERIMETER CONTROL IF
INSTALLED IN A MANNER THAT RETAINS ALL STORMWATER, (MINN. R. 7090)

9.18 PERMITTEES MUST USE POYMERS, FLOCKULANTS, OR OTHER SEDIMENTATION TREATMENT CHEMICALS IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICES, DOSING SPECIFICATIONS AND SEDIMENT REMOVAL DI SPECIFICATIONS PROVIDED BY THE MANUFACTURER OR SUPPLIES. THE PERMITTEES MUST USE CONVENTIONAL AND SEDIMENT CONTROLS PRIOR TO CHEMICAL ADDITION AND MUST DIRECT TREATED STORMWATER TO A SED CONTROL SYSTEM FOR FILTERATION OR SETTLEMENT OF THE FLOCK PRIOR TO CHEMICAL ADDITION AND MUST DIRECT TREATED STORMWATER TO A SED CONTROL SYSTEM FOR FILTERATION OR SETTLEMENT OF THE FLOCK PRIOR TO INSCRIBE (STEEL) RESPONDED.

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

L DEWAITERING AND DASHI DRAINING, [MINN.R. 7000]

PERMITTEES MUST DISCHARGE UTURBIO AS EDUINENT-LADEN WATERS RELATED TO DEWATERING OR BASIN DRAINING
5., PUMPED DISCHARGES, TRENCH/DITCH CUTS FOR DRAININGE) TO A TEMPORARY OR PERMANENT SEDIMENT BASIN OR
FROJECT STIE UNLESS INFERSIBLE, PERMITTEES MAY DEWATER TO SURFACE WATERS IT THEY VISUALLY CHECK TO
FURLE ADEQUATE TREATMENT HAS BEEN OBTAINED AND NUISANCE CONDITIONS (SEE MINN. R. 7050.0210, SURP. 2) WILL
RESULT FROM THE DISCHARGE. IF PERMITTEES CANNOT DISCHARGE THE WATER TO A SEDIMENTATION BASIN PRIOR
ENTERING A SURFACE WATER, PERMITTEES MUST TREAT IT WITH APPROPRIATE BMPS SUCH THAT THE DISCHARGE DOES
TA DEVENEYS HETCH THIS SURFACE WATER, OF MOWNSTREAM PROPERTIES. [MINN. R. 7050.0210]

10.3 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] 301.4 PERMITTEES MUST DISCHARGE ALL WATER FROM DEWATERING OR BASIN-DIABNING ACTIVITIES IN A MANNER THAT DOES NOT CAUSE REGISTORY OF CONTROL TO THE MEMORY OF CONTROL WAS AN ARMY OF THE CONTROL OF CONTROL WAS AN ARMY OF THE CONTROL OF CONTROL WAS AN ARMY OF THE CONTROL OF CONT

IN. 2020). 10,5 IF PERMITTEES USE FILTERS WITH BACKWASH WATER, THEY MUST HAUL THE BACKWASH WATER AWAY FOR O RETURN THE WACKWASH WATER TO THE BEGINNING OF THE TREATHERT PROCESS, OR INCOPPORATE THE BACKWA WATER INTO THE STEE IN A MANNER THAT DOES NOT CAUSE REOSION. HIMN, R. 7090)

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

11.2 PERMITTEES MUST ENSURE A TRAINED PERSON, AS IDENTIFIED IN 1TEM 21.2.6, WILL INSPECT THE ENTIRE CONSTRUCTION SITE AT LEAST ONCE EVERY SEVEN (?) DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT (BERTÆTE THAN 1)? AICH IN 24 HOURS AFTER A RAINFALL EVENT (BERTÆTE THAN 1)? AICH IN 124 HOURS 11.3 PERMITTEES MUST INSPECT AND MAINTAIN ALL PERMANENT STORMWATER TREATMENT BMPS. [MINN. R. 7090]

IF FIELD CONDITIONS PREVENT ACCESS TO THE AREA, JININ, R. 7090)

13. DURING EACH INSPECTION, PRINTITEES MUST INSPECT SUBFACE WATERS, INCLUDING DRAINAGE DITCHES AND CONNEYSINCE SYSTEMS BUT NOT CURB AND GUTTER SYSTEMS, FOR EVIDENCE OF ROOSION AND SEDIMENT DEPOSITION. PREVENTIES BUT NOT CURB AND GUTTER SYSTEMS, FOR EVIDENCE OF ROOSION AND SEDIMENT DEPOSITION. PREVENTES WATER, INCLUDING DRAINAGE WAYS, CATCH RASINS, AND OTHER DRAINAGE SYSTEMS AND RESTABILIZE THE AREAS WHERE SEDIMENT REMOVAL RESULTS IN SEPOSED SOIL, PREMITTEES AND COMPAND AND STABILIZATION WITHIN SEVEN (7) CALENDAD AND SOIL DISCOVERY UNLESS PRECLUDED BY LEGAL, REGULATORY, OR PHYSICAL ACCESS CONSTRAINTS, PERMITTEES MUST USE ALL CYLONAGE AND STABILIZATION WITHIN SEVEN (7) CALENDAD AND SEPOSITION OF A STABILIZATION WITHIN SEVEN (7) CALENDAD AND SEPOSITION OF A STABILIZATION WITHIN SEVEN (7) CALENDAD AND SEPOSITION OF A STABILIZATION WITHIN SEVEN (7) CALENDAD AND SEPOSITION OF A STABILIZATION WITHIN SEVEN (7) CALENDAD AND SEPOSITION OF A STABILIZATION WITHIN SEVEN (7) CALENDAD AND SEPOSITION OF A STABILIZATION WITHIN SEVEN (7) CALENDAD AND SEPOSITION OF A STABILIZATION WITHIN SEVEN (7) CALENDAD AND SEPOSITION OF A STABILIZATION WITHIN SEVEN (7) CALENDAD AND SEPOSITION OF A STABILIZATION WITHIN SEVEN (7) CALENDAD AND SEPOSITION OF A STABILIZATION WITHIN SEVEN (7) CALENDAD AND SEPOSITION OF A STABILIZATION WITHIN SEVEN (7) CALENDAD AND SEPOSITION OF A STABILIZATION WITHIN SEVEN (7) CALENDAD AND SEPACE WATERS. HINDERS AND SEPACE WATERS AND SEPACE WATERS. HINDERS AND SEPACE WATERS AND SEPACE WATERS. HINDERS AND SEPACE WATERS AND SEPACE WATERS.

1.4 G PERMITTEES MUST INSPECT CONSTRUCTION SITE VEHICLE EXIT LOCATIONS, STREETS AND CURB AND GUTTER SYSTEMS WITHIN AND ADJACENT TO THE PROJECT FOR SEDIMENTATION FROM EROSION OR TRACKED SEDIMENT FROM VEHICLES. PERMITTEES MUST REMOVE SEDIMENT FROM ALL PACED SURFACES WITHIN 60KE (1) CALENDAR DAY OF DISCOVERY OR, IF APPLICABLE, WITHIN A SHORTER TIME TO AVOID A SAFETY HAZARD TO USERS OF PUBLIC STREETS. HINNE. 7, 2009.

11.7 PERMITTEES MUST REPAIR, REPLACE OR SUPPLEMENT ALL PERIMETER CONTROL DEVICES WHEN THEY BECOME NONFUNCTIONAL 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.B. [MINN. R. 7090] 11.10 PERMITTEES MAY ADJUST THE INSPECTION SCHEDULE DESCRIBED IN ITEM 11.2 AS FOLLOWS

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 UNITL CONSTRUCTION ACTIVITY RESUMES. THE MPCA MAY REQUIRE INSPECTIONS TO RESUME IF CONDITIONS WARRANT; OR

RESUME: If LORDITIONS WARRANT; ON.

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, WHICHEVE CONTEST INSPECTION, WITH CAPE CONTEST INSPECTION, WITH CAPE CONTEST INSPECTION, WITH CAPE CONTEST INSPECTION. (MINN. R. 7059)

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.

- A. DATE AND TIME OF INSPECTIONS; AND
- B. NAME OF PERSONS CONDUCTING INSPECTIONS; AND

. ACCURATE FINDINGS OF INSPECTIONS, INCLUDING THE SPECIFIC LOCATION WHERE CORRECTIVE ACTIONS ARE NEEDED; AND

D. CORRECTIVE ACTIONS TAKEN (INCLUDING DATES, TIMES, AND PARTY COMPLETING MAINTENANCE ACTIVITIES); AND D. CORRECTIVE ACTIONS TAKEN (INCLUDING DATES, TIMES, AND PARTY COMPLETING MARITERANCE ACTIVITIES); AND
E. DATE OF JAL RAINFALL EVENTS GREATER THAN JZ INCHES IN ZA HOURS, AND THE AMOUNT OF RAINFALL POR
EVENT. PERMITTEES MUST OBTAIN ARINFALL AMOUNTS BY EITHER A PROPERLY MAINTAINED RAIN GAUGE INSTIALLED
ONSTIE, A WEATHER STATION THAT IS WITHIN ONE (1) MILL OF YOUR LOCATION, OR A WEATHER STEPORTHES SYSTEM
FOR THE PROVIDES SITE SPECIFIC RAINFALL DATA FROM RADAR SUMMANES; AND
F. IF PERMITTEES OBSERVE A DISCHARGE OUTRING THE INSPECTION, THEY MUST RECORD AND SHOULD PHOTOGRAPH AND
DESCRIBE THE LOCATION OF THE DISCHARGE (J.E., COLOR, ODOR, SETTLED OR SUSPENDED SOLIDS, OIL SHEEN, AND
OTHER ORDIVED INDICATORS OF POLILUTAINES), 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. FERMITTEES MUST PLACE BUILDING PRODUCTS AND LANSCAPE MATERIALS UNDER COVER (E.G., PLASTIC SHEETING OR TEMPORARY ROOFS) OR PROTECT THEM BY SIMILARLY FFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WITH STORMWATER. PERMITTEES 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 CONWINTS STORMAYTER, [MINN. R. 7090] 12.4 PERMITTEES MUST STORE HAZARDOUS MATERIALS AND TOXIC WASTE, (INCLUDING OIL, DIESEL FUEL, GASO)
HYDRALII (C FLUIDS, DAINT SQLYENTS, PETROLFIIM-RASED PRODUCTS, WOOD PRESERVATIVES, ADDITIVES, CURIN

COMPOUNDS, AND ACIDS) IN SEALED CONTAINERS TO PREVENT SPILLS, ICARS OR OTHER DISCHARGE. STORAGE AND DISPOSAL OF HAZARDOUS WASTE MATERIALS MUST BE IN COMPLIANCE WITH MINN. R. CH. 7045 INCLUDING SECONDAL CONTAINMENT AS APPLICABLE. IMINN. R. 70901 12.5 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] PERMITTES MUST PROPERTY DISPOSE SANITARY WASTE IN ACCURDANCE WITH MINN, K. CH. 7041, [MINN, N. 7041]

12.7 PERMITTES MUST TAKE REASONABLE STREPS 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
ORIP PANS OR ABSORMENTS UNESS INFEASIBLE. PERMITTERS MUST ENSURE ADEQUATE SUPPLIES ARE AVAILABLE AT ALL
TIMES TO CLEAN UP DISCHARGED MATERIALS AND THAT AM APPROPRIATE DISPOSAL METHOD IS AVAILABLE FOR
RECOVERED SPILLED MATERIALS, PERMITTES MUST REPORT AND CLEAN UP SPILLS INMEDIATELY AS REQUIRED BY MINN,
STAT. 115.061]

12.8 PERMITTEES MUST LIMIT VEHICLE EXTERIOR WASHING AND EQUIPMENT TO A DEFINED AREA OF THE SITE, PERMITTEES MUST CONTAIN RUNGF FROM THE WASHING AREA IN A SEDIMENT BASIN OR OTHER SIMILARLY EFFECTIVE CONTROLS AND MUST DISPOSE WASTE FROM THE WASHING ACTUITY PROPERTY. PERMITTEES MUST PROPERTY 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 ACTUTY. PERMITTEES MUST PREVENT LIQUID AND SOLID WASHOUT OFFICIAL TO BOS OR WASHOUT WASHOUT PROVIDED TO BOS OR WASHOUT WASHOUT WASHOUT WASHOUT OFFICIAL OFFI ON OR WASHOUT WAS

13.1 PERMITTEES MUST COMPETE ALL CONSTITUTION, ACTIVITY AND MUST INSTALL PERMANENT COVER OVER ALL AREAS PRIDER TO SUBBITITHIS THE NOT. VECETATIVE COVER MUST CONSIST OF A UNFORM PERENNIAL VEGETATION WITH A DEBSITY OF 70 PERCENT OF ITS EXPECTED FINAL GROWTH. VEGETATION IS NOT REQUIRED WHERE THE FUNCTION OF A SPECIFIC AREA DICTATES NO VEGETATION, SUCH AS IMPERVIOUS SURFACES OR THE BASE OF A SAND FILTER. [MINN. 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. [MINN. 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 DIXT, PERMIT COVERAGE TERMINATES ON INDIVIDUAL LOTS IT THE STRUCTURES ARE FINISHED AND TEMPORARY REGISTON REPERTITION AND ODNOWRROADENT FERMITETE CONTROL IS COMMETTE, THE RESIDENCE SELLS TO THE HOMEOWNER, AND THE PERMITTEE DISTRIBUTES THE MPCA'S "HOMEOWNER FACT SHEET" TO THE HOMEOWNER, JUNIOR STRUCTURES ARE AND THE PERMITTEE DISTRIBUTES THE MPCA'S "HOMEOWNER FACT SHEET" TO THE HOMEOWNER, JUNIOR STRUCTURES THE MPCA'S "HOMEOWNER FACT SHEET" TO THE HOMEOWNER, JUNIOR STRUCTURES THE MPCA'S "HOMEOWNER FACT SHEET" TO THE

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

14.1 TEMPORARY SEDIMENT BASINS, [MINN, R. 7090]

14.2. WHERE TEW (10) 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 TIL LEWESTHE CONSTRUCTION SITE OR FOR THE STATE OF 14.3 THE TEMPORARY BASIN MUST PROVIDE LIVE STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A TWO (2)-YEAR, 24-HOUR STORM FROM FACH ACRE DRAINED TO THE BASIN OR 1,800 CUBIC FEET OF LIVE STORAGE PER ACRE DRAINED, WHICHEVER IS OFFERTE MINN. R. 77001

14.4 WHERE PERMITTEES HAVE NOT CALCULATED THE TWO (2)-YEAR, 24-HOUR STORM RUNOFF AMOUNT, THE TEMPORAL 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 DERIGS. INNN. 8, 70001

OLDING: PUMIN R. YOU'RE MUST DESIGN THE OUTLET STRUCTURE TO WITHDRAW WATER FROM THE SURFACE TO MINIMIZE THE DISCHARGE OF POLUTANTS, PERMITTEES MAY TEMPORARILY SUSPERD 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. 7090)

34.7 PERMITTEES MUST PROVIDE ENERGY DISSIPATION FOR THE BASIN OUTLET WITHIN 24 HOURS AFTER CONNECTION TO A SURFACE WATER, [PINN, R. 7090] 14.8 PERMITTEES MUST LOCATE TEMPORARY BASINS OUTSIDE OF SURFACE WATERS AND ANY BUFFER ZONE REQUIRED IN ITEM 23.13. [MINN. R. 7090]

1164 2.5.11. [PILING, R. 7090]
14.9 PERMITTERS MUST CONSTRUCT THE TEMPORARY BASINS PRIOR TO DISTURBING 10 OR MORE ACRES OF SO!I DRAINING TO A COMMON LOCATION. [MINN. R. 7690]

TO A COMMON LOCATION, [MINN. R. 7890]

14.10 WHERE A TEMPORARY SEDIMENT BASIN MEETING THE REQUIREMENTS OF ITEM 14.3 THROUGH 14.9 IS INFEASIBLE, PERMITTEES MUST INSTILL LEFTCH THE SEDIMENT CONTROLS SUCH AS SMALLER SEDIMENT BASINS AND/OR SEDIMENT TRAPS, SILT FENCES, VEGETATIVE BUFFER STRIPS OR ANY APPROPRIATE COMBINATION OF MEASURES AS DICTATED BY MODIFICIAL STREET CONDITIONS. IN OF TERMINION WHETHER INSTALLING A SEDIMENT BASIN IS INFEASIBLE, PERMITTEES MUST CONSIDER FUEL SAFETY AND MAY CONSIDER FACTORS SUCH AS SITE SOLIES, SOFE, AND AVAILABLE ARLA ON-SITE PERMITTEES MUST CONSIDER FACTORS SUCH AS SITE SOLIES, SOFE, AND AVAILABLE ARLA ON-SITE PERMITTEES MUST CONSIDER FACTORS SUCH AS SITE SOLIES, AR. 7890]

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 AFTE CONSTRUCTION ACTIVITIES DOES NOT CAUSE A VIOLATION OF STATE WATER QUALITY STANDARDS, INCLUDING NUISAN CONDITIONS, EROSION IN RECEIVING CHANNELS OR ON DOWNSLOP PROPERTIES, OR A SIGNIFICANT ADVERSE IMPACT WETLANDS CAUSED BY INUNDATION OR DECREASE OF FLOW, [MINN. R. 7090]

13.3 PERMITTEES MUST DESIGN AND CONSTRUCT A PERMANENT STORMWATER TREATMENT SYSTEM TO TREAT THE QUALITY VOLUME IF THE PROJECT'S ULTIMATE DYELOPMENT REPLACES VEGETATION AND/OR OTHER PERMITOUS SERVICE (FININ R. 2009). CREATING A WELL INCREASE OF DOME (1) OR MORE ACRES OF COMPULATIVE MEMORYOUS SUPPRACE (HIMIN R. 2009). 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]

15. SPERMITTEES MUST FIRST CONSIDER VOLUME REDUCTION PRACTICES ON-SITE (E.G., INFILTRATION OR OTHER) WHEN DESIGNING THE PERMIAMENT STORMWAFER TREATMENT SYSTEM. IF THIS PERMIT PROMISETS INFILTRATION AS DESCRIBED IN 11FM 16.14 THROUGH THEM 16.21, PERMITTEES MAY CONSIDER A WET SEDIMENTATION DASIN, FILTRATION BASIN OR REGIONAL POND. THIS PERMIT PROMISES MAY CONSIDER WET SEDIMENTATION BASINS AND FILTRATION SYSTEMS TO BE VOLUME REDUCTION PRACTICES, IMMIN. 8. 709 THE SEDIMENTATION BASINS AND FILTRATION SYSTEMS TO BE VOLUME REDUCTION PRACTICES, IMMIN. 8. 709 THE SEDIMENTATION BASINS AND FILTRATION SYSTEMS TO BE

15.6 FOR PROJECTS WHERE THE FULL VOLUME REDUCTION REQUIREMENT CANNOT BE MET ON-SITE, (E.G., THE SITE HAS INFILITATION PROHIBITIONS), PERMITTEES MUST DOCUMENT THE REASONS IN THE SWPPP. [MINN. R. 7090] INTELIANTION PROFILED TO SUPPLY STORMATTE THE WASTE QUALITY VOLUME TO A PERMANENT STORMWATER TREATHERT SYSTEM PRIOR TO DISCHARGE TO A SURFACE WATER, FOR PURPOSES OF THIS TIEM, SURFACE WATERS DO NOT INCLUDE MAN-PORIANDE 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 SURRASSED SWALES, SMALLER PONDS, OR GRIT CHAMBERS, PRIOR TO THE DISCHARGE OF STORMWATER SURFACE

WATERS, [MINN. R. 7090]

15.9 FOR LIBEAR PROJECTS WHERE PERMITTEES CANNOT TREAT THE ENTIRE WATER QUALITY VOLUME WITHIN THE EXISTING RIGHT-OF-WAY, PERMITTEES HUST MAKE A RASONABLE ATTEMPT TO OBTAIN ADDITIONAL RIGHT-OF-WAY, EASIMEN! OR OTHER PERMISSION FOR STORMAN TI INVORCE PROPERTY FOR THE PERMITTEES WERE AND THE PERMITTEES WITH STALL CANNOT DEPENDED FOR THE PERMITTEES WITH STALL CANNOT DEPENDED FOR THE PERMITTEES WITH STALL CANNOT DEFINED FOR THE PERMITTEES WITH STALL CANNOT DEFINED. THE MATERIAL PROPERTY OF THE PERMITTEES WITH STALL CANNOT DEFINED. THE WATER QUALITY VOLUME PRIOR TO DISK, RASERENT OR OTHER PERMISSION, THEY MUST MAXIMIZE THE TREATMENT OF THE WATER QUALITY VOLUME PRIOR TO DISK, RASERET OR

16.1 INFILTRATION SYSTEMS. [MINN. R. 7090]

16.2 INFILTRATION OPTIONS INCLUDE, BUT ARE NOT LIMITED TO: INFILTRATION BASINS, INFILTRATION TRENCHES RAINWATER GARDENS, BIORETENTION AREAS WITHOUT UNDERDRAINS. SWAI ES WITH IMPERMEARIE CHEEK DAMC RAINWATER GARDENS, BIORETENTION AREAS WITHOUT UNDERGRAIMS, SWALES WITH IMPERMEABLE CHECK DAMS, AND ANJURAL DEPRESSIONS. IP PERMITTEES UTILIZE AN INFILTRATION SYSTEM TO MEET THE REQUIREMENTS OF THIS PERMIT THEY MUST INCORPORATE THE DESIGN PARAMETERS IN TIEM 16.3 THROUGH TIEM 16.21. PERMITTEES MUST FOLLOW THI INFILTRATION PROHIBITION IN TIEM 16.34 ANYTIME AN INFILTRATION SYSTEM IS DESIGNED, INCLUDING THOSE NOT REQUIRED BY THIS PERMIT. [MINN. R. 7090] 16.3 PERMITTEES MUST DESIGN INFILITATION SYSTEMS SUCH THAT PRE-EXISTING HYDROLOGIC CONDITIONS OF WEYLANDS IN THE VICINITY ARE NOT IMPACTED (E.G., INUNDATION OR BREACHING A PERCHED WATER TABLE SUPPORTING A WETLAND, LIMIN. R. 7090]

A WETLAND), (MINN: R. 7.999)

16.4 PERMITERS MUST NOT EXCAVATE INFILITATION 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 PROVIDE RIGOROUS EROSION PREVENTION AND SEDIMENT CONTROLS (E.C., DIVERSION BERMS) TO KEEP SEDIMENT AND RUNOFF COMPETERLY AWAY FROM THE INFILITATION AREA. (MINN: R. 7990)

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 AFE

INTIL KARIUM AKCA. [MINN. K. JUSU] 16.6 PERMITTES MUST USE A PRETREATMENT DEVICE SUCH AS A VEGETATED FILTER STRIP, FOREBAY, OR WATER QUA INLET (E.G., GRIT CHAMBER) TO REMOVE SOLIDS, FLOATING MATERIALS, AND OIL AND GREASE FROM THE RUNOFF, IN MAXIMUM EXTENT PRACTICABLE, BEFORE THE SYSTEM ROUTES STORMWATER TO THE INFILTRATION SYSTEM. (MIN)

/MYUJ
16.7 PERMITTEES MUST DESIGN INFILTRATION SYSTEMS TO PROVIDE 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 MOTHER SYSTEM ON THE SITE, FROM THE NET INCEASE OF IMPERVIOUS SUFFACES CREATED BY THE PROJECT, [MINN] K. 7090)
16.8 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 SURFACE OR ENGINEERED MEDIA SURFACE WITHIN 48 HOURS, PERMITTEES MUST ROUTE ADDITIONAL FLOWS THAT CANNOT INFILTRATE WITHIN 48 HOURS TO SYSTEM THROUGH A STABILIZED DISCHARGE FOINT, [MINN, 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)

16.11 FOR DESIGN PURPOSES, PERMITTEES MUST DIVIDE FIELD MEASURED INFILTRATION RATES BY 2 AS A SAFETY FACTOR OR PERMITTEES OF SOUL BORNES SOUL BORNES WITH THE INFILTRATION RATE CHART IN THE MINNESOTA RESULTS WITH THE INFILTRATION RATE CHART IN THE MINNESOTA SOULS, PERMITTERS SHOULD PERFORM FIELD MEASUREMENTS TO WHITE THE ARTE IS NOT ABOVE 3.3 INCHES PER HOUR. THIS PERMIT ROUTHERS SHOULD PERFORM FIELD MEASUREMENTS TO WHITTIFF RATE IS NOT ABOVE 3.3 INCHES PER HOUR. THIS PERMIT ROUTHBITS (MINITED RATE IS ABOVE 3.3 INCHES PER HOUR. BINN. R. 7999) 16.12 FRANTITES 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, IMINN. R. 7090)

16.13 PERMITTEES MUST DESIGN A MAINTENANCE ACCESS, TYPICALLY EIGHT (8) FEET WIDE, FOR THE INFILTRATION SYSTEM, [MINN, R. 7080]

STALEM, MININ. K. JOHN JET PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS THAT RECEIVE RUNOFF FROM VEHICLE FUELING AND MAINTEARCE AREAS INCLUDING CONSTRUCTION OF INFILTRATION SYSTEMS NOT REQUIRED BY THIS FEMALT, (MINN. R. 7090)

THIS PERMIT. [MINN. R. 7090]

10.15 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION 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 GROUNDWATER, PERMITTEES MUST ETHER COMPLETE THE MPCA'S CONTAMINATION SCREENING CHECKLIST OR ASSESSMENT TO DETERMINE STRAILLY FOR INFILTRATION, PERMITTEES MUST RETAIN THE CHECKLIST OR ASSESSMENT WITH THE SWEPP, FIND PARAMETER AND TO ACCESS THE MPCA'S "CONTAMINATION SCREENING CHECKLIST" SEE THE MINNESOTA STORMWANUAL, PURISH, 8, 7, 2001]

16.16 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS IN AREAS WHERE SOIL INFILTRATION RAYES ARE FIELD MEASURED AT MORE THAN 8.3 INCHES FER HOUR UNLESS THEY AMEND SOILS TO SLOW THE INFILTRATION RAYE BELOW 8.3 INCHES PER HOUR. HIMIN. R. 70901

THE BY ELITATION AND THE DECOMES. INCREEDED FROM CONSTRUCTION BY FLITATION SYSTEMS IN AREAS WITH LESS THAN THREE SYSTEMS IN A PRESENTATION DISTANCE FROM THE BOTTOM OF THE INFILITATION SYSTEM TO THE ELEVATION OF THE SERESOLD WITH SATURATION SYSTEM TO THE ELEVATION OF THE

16.18 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS IN AREAS OF PREDOMINATELY HYDROLOGIC SOIL GROUP TYPE D SOILS (CLAY). [MINN. R. 7090] THIDNOLOGIC SOLIC GROOP FIFE SOLIG (CLAY) (PINNER, 2004)

TO 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 M54 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 dwisha classified as having high or very high vulnerability, unless a regulated may erritted performed or approved a higher level of engineering review sufficient to provide a functioning treatment system and to prevent adverse impacts to groundwater.

SEE "HIGHER LEVEL OF ENGINEERING REVIEW" IN THE MINNESOTA STORMWATER MANUAL FOR MORE INFORMATION. [MINN R. 7090]

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 PERMIT FOR INDUSTRIAL ACTURITIES AUTOMOBILE SALVAGE YARDOS; SCARP RECYCLING AND WASTE RECYCLING FACILITIES; HAZARDOUS WASTE TREATMENT, STORAGE, OR DISPOSAL FACILITIES; OR AIR TRANSPORTATION FACILITIES; HAZARDOUS WASTE TREATMENT, STORAGE, OR DISPOSAL FACILITIES; OR AIR TRANSPORTATION FACILITIES THAT COMOUT DELING ACTIVITIES, [MINN. R. 7090]

17.1 FILTRATION SYSTEMS, IMINN, R. 70901

17.2. FILTRATION OPTIONS 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 UNILIZE A FILERATION SYSTEM TO NEET THE PERMANENT STORMWATER TREATMENT REQUIREMENTS OF THIS PERMIT, THEY MUST COMPLY WITH ITEMS 17.3 THROUGH 17.11. [MINN. R. 7090]

17.4 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 OILS AND GREASE FROM THE RUNOFF, TO THE MAXIMUM EXTENT PRACTICABLE, DEFORE RUNOFF ENTERS THE FILTRATION SYSTEM. (MINN. R. 7090)

FILENDIAD RESIDENCE (FINE R. 7990)

17.6 PRINTITEES MUST DESIGNE FITRATION SYSTEMS TO TREAT A WATER QUALITY VOLUME (CALCULATED AS AN INSTANTANT QUS VOLUME) OF ONE (1) INCH OF RUNTING THE VOLUME OF STORMWATER TREATER OF THE SYSTEM ON THE STITE, FROM THE THORCASE OF IMPERVIOUS SURFACES CREATED BY THE PROJECT. [MIN]

17.7 PERMITTEES MUST DESIGN THE FILTRATION SYSTEM TO DISCHARGE ALL STORMWATER (INCLUDING STORMWATER IN CESS OF THE WATER QUALITY VOLUME) ROUTED TO THE SYSTEM THROUGH THE UPPERMOST SOIL SURFACE OR GINEERED MEDIA SURFACE WITHIN 48 HOURS. ADDITIONAL FLOWS THAT THE SYSTEM CANNOT FILTER WITHIN 48 HOURS IST BYPASS THE SYSTEM OR DISCHARGE THROUGH AN EMERGENCY OVERFLUW. [MINN. R. 7090]

17.8 PERMITTEES MUST DESIGN THE FILTRATION SYSTEM TO PROVIDE A MEANS TO VISUALLY VERITY 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 FUNDS 2

17.10 PERMITTEES MUST ENSURE THAT FILTRATION SYSTEMS WITH LESS THAN THREE (3) FEET OF SEPARATION BETWEEN 17.11 THE PERMITTEES MUST DESIGN A MAINTENANCE ACCESS, TYPICALLY EIGHT (8) FEET WIDE, FOR THE FILTRATION

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

18.2 PERMITTEES USING A WET SEDIMENTATION BASIN TO MEET THE PERMANENT STORMWATER TREATMENT
REQUIREMENTS 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 THREE (3) FEET AND MUST HAVE NO DEPTH GREATER THAN 10 FEET. PERMETTEES MUST CONFIGURE THE BASIN TO MINIMIZE SCOUR OR RESUSPENSION OF SOLIDS, [MINN. R. 7990]

THE PRIMIT OF PRIMITED SOURCE ASSUSPENSION OF SOLIDS. [MINN. R. 7990]

18.4 PERMITTEES MUST DESIGN THE BASIN TO PROVIDE LIVE STORAGE FOR A WATER QUALITY VOLUME (CALCULATED AS AN INSTANTANCOUS 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 IN IMPERVIOUS SURFACES CREATED BY THE PROJECT. [MINN. R. 7090]

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 DISSIDATION. IMINN. 8 70901 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.

18.9 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 22. [MINN. R. 7090] 18.10 PERMITTEES MUST DESIGN BASINS USING AN IMPERMEABLE LINER IF LOCATED WITHIN ACTIVE KARST TERRAIN.
[MINN. R. 7090]

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

19.1 REGIONAL WET SEDIMENTATION BASINS. [MINN. R. 7090]
19.2 WHEN THE ENTIRE WATE QUALITY YOU UNE CANNOT BE RETAINED ONSITE, PERMITTES CAN USE OR CREATE REGIONAL WET SEDIMENTATION BASINS PROVIDED THEY ARE CONSTRUCTED BASINS, NOT A NATURAL WETLAND OR WATER BODY, (WHIT LAND USED AS REGIONAL BASINS MUST ER MITGATED FOR, SEE SECTION 2.2). THE OWNER MUST LENGUE THE REGIONAL BASIN CONTORNS TO ALL REQUIREMENTS FOR A WET SEDIMENTATION BASIN AS DESCRIBED IN TEMS 18.3 PERMITTES MUST BE AND ALL REQUIREMENTS FOR A WET SEDIMENTATION BASIN AS DESCRIBED IN TEMS 18.3 PERMITTES MUST VERY THAT THE REGIONAL BASIN WILL DISCHARGE AT NO MORE THAN SO.G CTS PER ACRE OF SURFACE AREA OF THE BASIN AND MUST PROVIDE A LIVE STORAGE VOLUME OF ONE INCH TIMES ALL THE IMPERVIOUS AREA BASIN WILL DISCHARGE AT NO THE BASIN FROM THE SECOND SIGNIFICANTLY DEGRADE WATERWAYS BETWEEN THE PROPICET AND THE REGIONAL BASIN. THE OWNER MUST OBTAIN BASIN WILL DEGRADE WATERWAYS BETWEEN THE PROPICET AND THE REGIONAL BASIN. THE OWNER MUST OBTAIN MAKE AUTHORIZED TO FROM THE APPLICABLE LIGU OR PRIVATE ENTITY THAT OWNER MUST OBTAIN BASIN, FINN. R. 7.990]

20.2 PERMITTEES MUST KEEP THE SWPPP, INCLUDING ALL CHANGES TO IT, AND INSPECTIONS AND MAINTENANCE RECORDS AT THE SITE DURING NORMAL WORKING HOURS BY PERMITTEES WHO HAVE OPERATIONAL CONTROL OF THAT PORTION OF THE SITE. [MINN: R. 7080]

21.1 TRAINING REQUIREMENTS. [MINN. R. 7090]

21.2 PERMITTEES MUST ENSURE ALL OF THE FOLLOWING INDIVIDUALS RECEIVE TRAINING AND THE CONTENT AND EXTENT OF THE TRAINING IS COMMERSURATE 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 AUOUSS UPON REQUEST BY THE MPCA.

INSPECTION WITHIN 72 HOURS UPON REQUEST BY THE MPCA.

C. INDIVIDUALS PERFORMING OR SUPERVISION THE INSTALLATION, MAINTENANCE AND REPAIR OF BMPS. [MINN. R. 7090]
21.3 PERMITTEES MUST ENSURE INDIVIDUALS IDENTIFIED IN SECTION 21 RECEIVE TRAINING FROM LOCAL, STATE, FEDERAL
AGENCIES, PROFESSIORAL ORGANIZATIONS, OR OTHER ENTITIES WITH EXPERTISE IN REOSON PREVENTION, SEDIMENT
CONTROL, PERMANENT STORMWATER TREATMENT AND THE MINNESOTA NPOES/SDS CONSTRUCTION STORMWATER PERMIT
PRINTITEES MUST ENSURE THESE INDIVIDUALS ATTEND A REFRESHER TRAINING COURSE EVERY THREE (2) YEARS, [MINN.

2-1. Gittigal-trivial-trivializate, Italia, 1991
2-2.1 If the MPGA DETERMINES THAT AN INDIVIDUAL PERMIT WOULD MORE APPROPRIATELY REGULATE THE CONSTRUCTION ACTIVITY, THE MPGA MAY REQUIRE AN INDIVIDUAL PERMIT TO CONTINUE THE CONSTRUCTION ACTIVITY, COVERAGE UNDER MY INDIVIDUAL PERMIT WILL REPORT WILL REPORT WILL REPORT WILL REPORT WILL REPORT WITH THE MY REPORT WILL REPORT WITH THE MY WITH THE MY REPORT WITH THE MY REPORT WITH THE MY WITH THE MY WIT

24.3 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 (N ACCORDANCE WITH 40 CFR 122.28(B)(3). [40 CFR 122.29(B)(3)]

24.5 PERMITTEES MUST MAKE THE SUPPE, INCLUDING ALL INSPECTION REPORTS, MAINTENANCE RECORDS, TRAINING RECORDS AND OTHER INFORMATION REQUIRED BY THIS BERMIT, AVAILABLE TO FEDERAL, STATE, AND LOCAL OFFICIALS WITHIN THREE (3) DAYS UPON REQUEST FOR THE DURATION OF THE PERMIT AND FOR THREE (3) YEARS FOLLOWING THE NOT, [MINN. R. 7990]

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]

WITH THE APPLICABLE REQUIREMENTS OF TIEM 3.7 AND 3.8. [MINN. R. 7.090]
24.7 NOTHING IN THIS PERMIT MUST BE CONSTRUED TO RELEVEN THE PERMITTEES FROM CIVIL OR CRIMINAL PENALTIES
FOR NONCOMPLIANCE WITH THE TERMS AND CONDITIONS PROVIDED HEREIN. NOTHING IN THIS PERMIT MUST BE
CONSTRUED TO PRECLUED THE INITIATION OF ANY LEGAL ACTION OR RELEVE THE PERMITTEES FROM ANY
RESPONSIBILITIES, LIABILITIES, OR PENALTIES TO WHICH THE PERMITTEES IS/ARE OR MAY BE SUBJECT UNDER SECTION
311 OF THE CLEAP WATER ACT AND MINN. STAT. SECT. 115 AND 116, AS AMENDED. PERMITTES ARE NOT LIABLE FOR
PERMIT REQUIREMENTS FOR ACTIVITIES OCCURRING ON THOSE FORTIONS OF A SITE WHERE THE PERMIT HAS BEEN
TRANSFERRED TO ANOTHER PARTY AS REQUIRED IN TIEM 3.7 OR THE PERMITTEES HAVE SUBMITTED THE NOT AS REQUIRED
IN SECTION 4. [MINN. R. 7990]

18 SECTION 4. [BINSINS OF A POSITION 5. (A POSITION SECTION 4. POSITION OF THIS PERMIT OR THE APPLICATION OF ANY PROVISION OF THIS PERMIT TO ANY CIRCUMSTANCES IS HELD INVALID. HE APPLICATION OF SUCH PROVISION TO OTHER CIRCUMSTANCES, AND THE REPAIR MORE OF THIS PERMIT HOUSE THE PERMIT HOUSE AND THE PROVIDE AND THE PERMIT HOUSE AND THE PERMIT HO

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

2.4.11 FOR THE PURPOSES OF MINN. R. 7090 AND OTHER DOCUMENTS THAT REFERENCE SPECIFIC SECTIONS OF THIS PERMIT, "STORNWATER DISCHARGE DESIGN REQUIREMENTS" CORRESPONDS TO SECTIONS 5, 6 AND 14 THROUGH 21; "CONSTRUCTION ACTIVITY REQUIREMENTS" CORRESPONDS TO SECTIONS 7 THROUGH 13; AND "APPENDIX A" CORRESPONDS TO SECTIONS 22 AND 23. [MIN. R. 7090]

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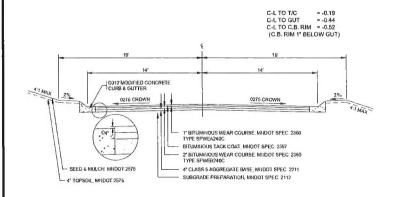
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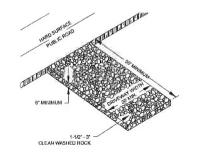
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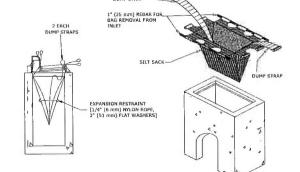
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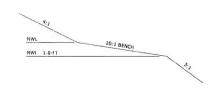
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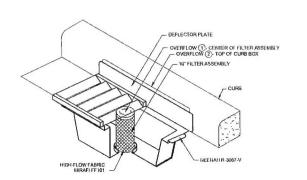


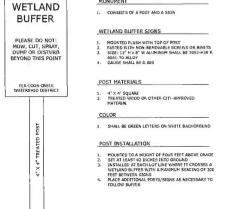
TYPICAL STREET SECTION (7-TON)

ROCK CONSTRUCTION EXIT N.T.S.

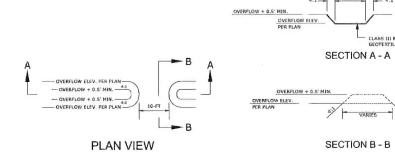
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TYPICAL POND SECTION





MONUMENT



WIMCO INLET PROTECTION

WETLAND BUFFER SIGNAGE

POND NUMBER 1 2 3 4 5 6 7

905.7 907.2 906.8 906.5 905.8 905.5 907.5

908.0 909.0 908.8 908.8 908.0 907.3 909.3

RIP-RAP OVERFLOWS

MITH FILTER FABRIC	
4FEET O/ CLASS II REPRAP O/ WITH FILTER FABRIC O O	
Calabora and the second and the seco	
2000	
AFEET O	IN. EMBEDMENT 2' FROM TOP OF BOARD
NOTES: 1 USE 4 MAXIMUM SPACING BETWEEN POSTS 2 STAINLESS STEEL HON-RUSTING BOLTS REQUIRED	

IOP OF BUARDS		U	908.0	909.0	300.0	300.0	908.0	907.5	203.3
DRIFICE TYPE		E	RECT	RECT	RECT	CIRCLE	CIRCLE	CIRCLE	RECT
DRIFICE 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
DRIFICE 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	905.60	906.30	905.60	905.30	907.30
(D) TOP OF BOAR!	DS			LESSURE BOARDS (T REFICE (E)	000		EE UTILITY P		

NWL

TOP OF BOARDS

BOARD 1 — BOARD 2	
(D) TOP OF BOARDS ORFICE (E) OUTLET PIPE (SEE UTILITY PLANS	
BOARD 1 FOR LENGTH, SLOPE AND INVERTS)	
(C) BOARO 2 (A) (F)	
EL-IM. 2017	
Milliabul 6" x 6" PRESSURE TREATED POSTS (4" MIN. BURY)	
SIDE VIEW	

DARD 1	188	E	27.6	21.6	24.0	n/a	n/a	n/a	21.0
INVERT F 905.50 907.00 906.60 905.30 905.60 905.30 907.30	ARD 1	C	905.2	906.7	906.3	906.0	905.3	905.0	907.0
BOARD 1 DP OF BOARD 5 ORFICE (E) ONLIET PIPE (SEE UTILITY PLANS FOR LENGTH, SLOPE AND INVERTS) BOARD 1 BOARD 2 (G) (G) (G) (F)	PENING	В	904.7	906.2	905.8	905.5	904.8	904.5	906.5
P OF BOARDS BOARD 1 BOARD 2 (C) BOARD 2 (A) FILED WAR - 20 FT	INVERT	F	905.50	907.00	906.60	906.30	905.60	905.30	907.30
MILINUM C Y OF PRESSURE TREATED POSTS (4 MIN. SIDE VIEW	BOARD 1 (C)		BOAR BUTTER BUTT	NESSURE DECARDS (TO RIFICE (E) IL (A) D 2 ENWL - 20 FT	OUT FOR	LENGTH, ŠLO			(F)

#	SIZE	CASTING	#	SIZE	CASTING	#	SIZE	CASTING
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						

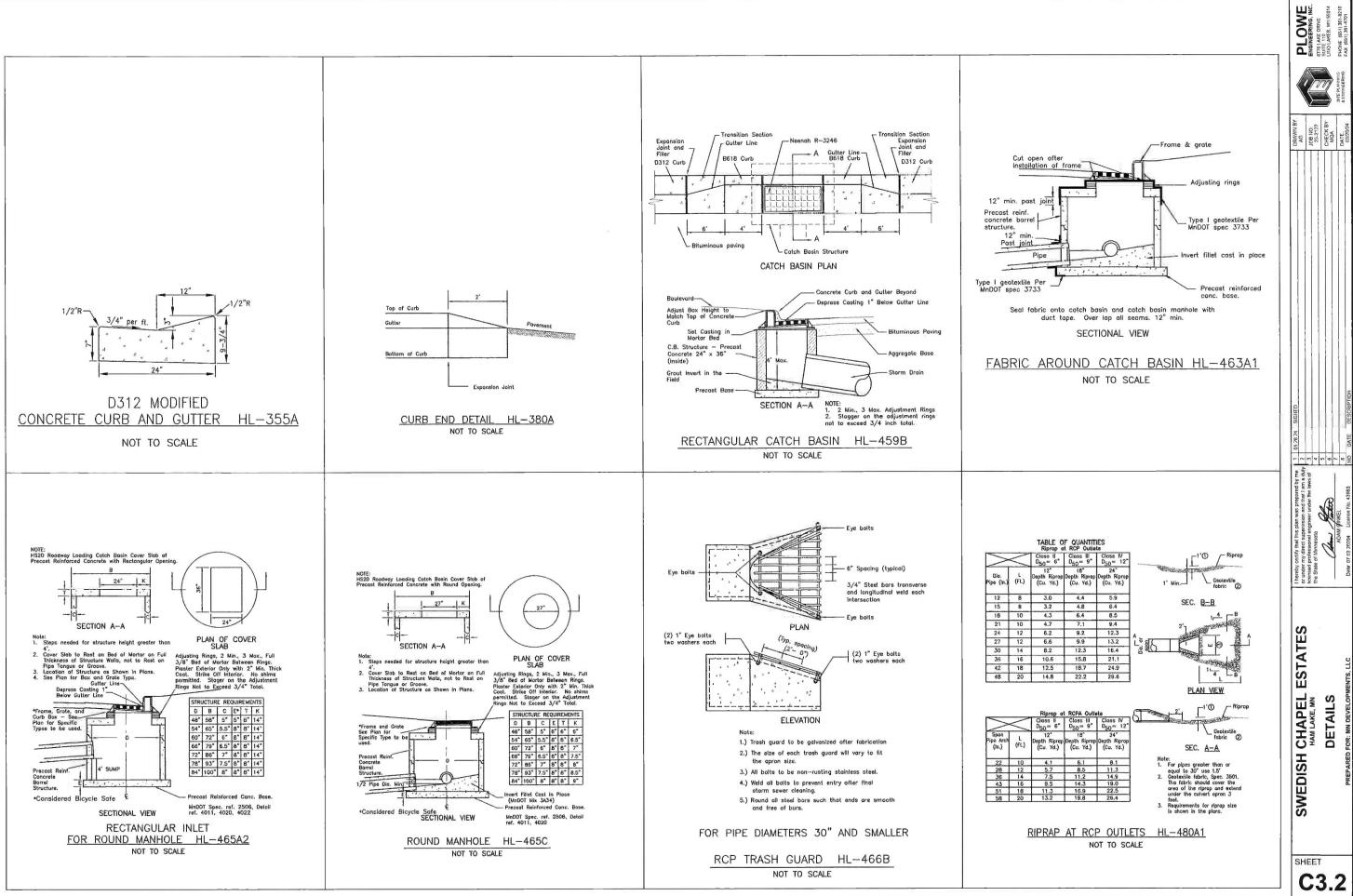
PLOWE ENGINEERING, INC. 8778 LAKE DRIVE SUITE 110 LIRO LAKES, MIL 55014

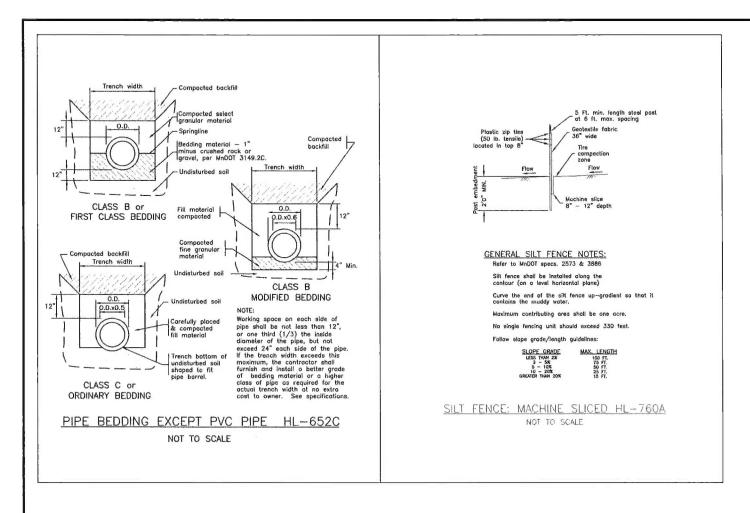
SWEDISH CHAPEL ESTATES
HAW LAKE, MN
DETAILS

SHEET C3.1

23-2122

PLAN VIEW POND OUTLET BAFFLE WEIR





PLOWE
ENGINEERING, INC.
61776 LAKE DRIVE
SUITE 130
LING LAKES, MI SSG14
PHONE (653) 351-3210
FAX (654) 351-3210



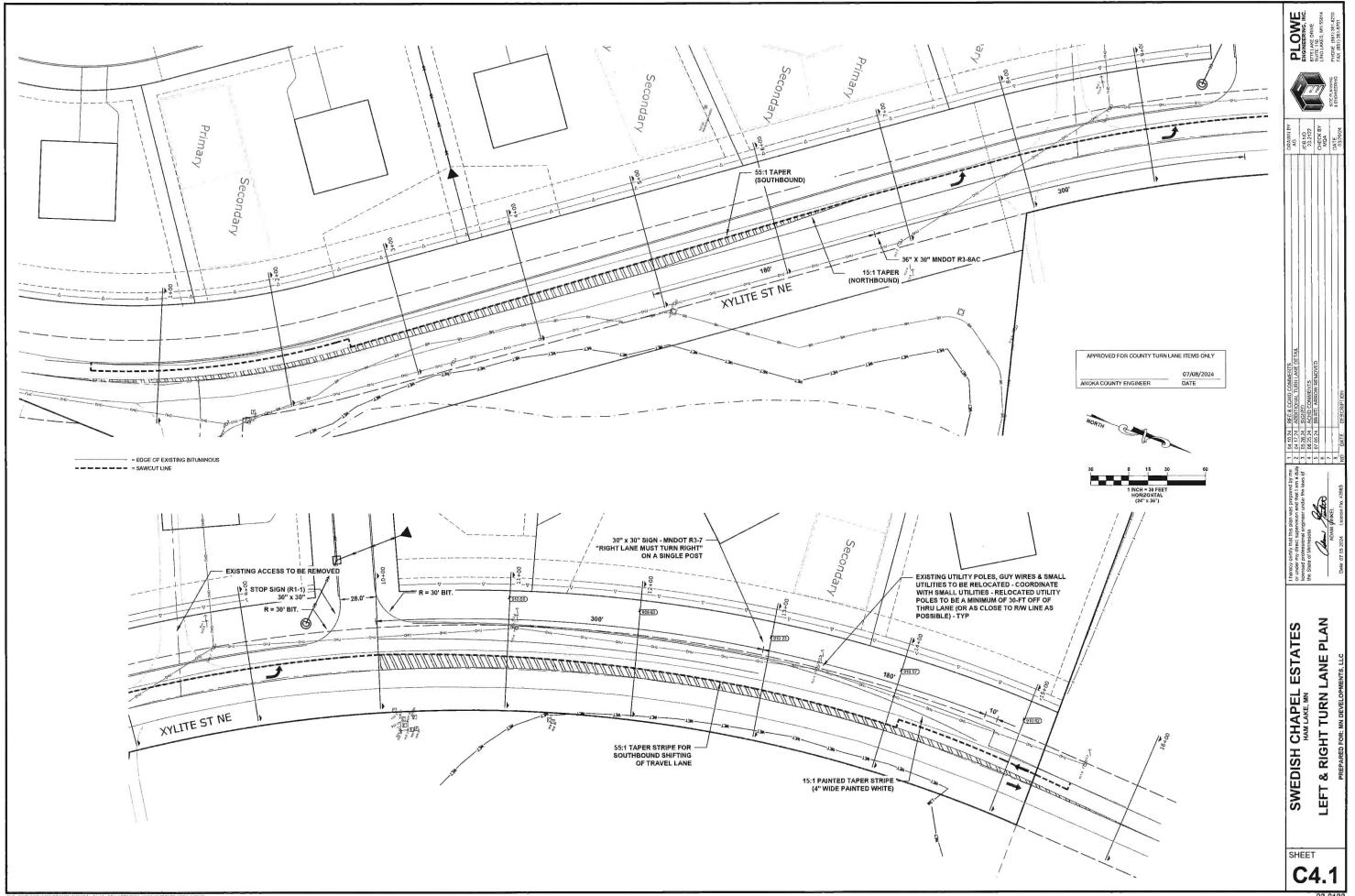
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SWEDISH CHAPEL ESTATES

DETAILS

SHEET

C3.3



GENERAL NOTES

- 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.

 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 NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO THE START 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 RIGHT-OF-WAY.

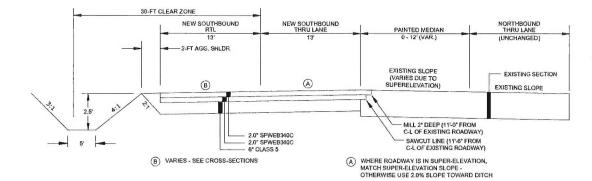
 1. NOTIFY CITY AND COON CREEK WATERSHED DISTRACT (COWD) A INNINATION OF A HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

- MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

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

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)

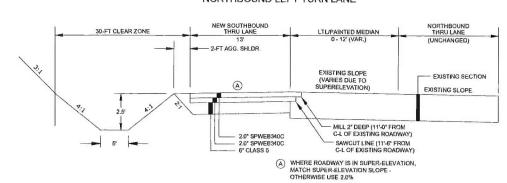
 2. ALL DISTURBED SOIL WITHIN COUNTY RIGHT-OF-WAY MUST BE SEEDED (MINDOT 28-141) & MULCHED (TYPE 1, DISC ANCHORED)

 3. USE ALL STRAW FIBER BLANKET 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



- NOTES

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

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

 4. PAYEMENT MARKINGS SHALL BE EPOXY

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

SHEET

C4.2

LEFT

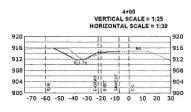
PLOWE
ENGINEERING, INC.
6379 LAKE BRIVE
SLUTE TATE
LITTOLATES, MIT 55014
PHONE (653) 361-3210
FAX (653) 361-3701

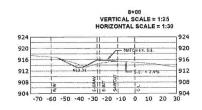
& RIGHT TURN LANE PLAN SWEDISH CHAPEL ESTATES

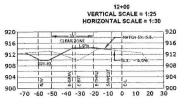
APPROVED FOR COUNTY TURN LANE ITEMS ONLY ANOKA COUNTY ENGINEER

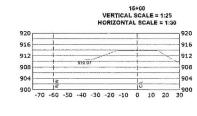
PLOWE
ENGINEERING, INC.
6775 LAKE DRIVE
LING LAKES, MIN 55014
LING LAKES, MIN 55014
PHONE: [651] 381-8701

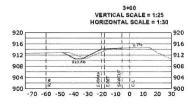
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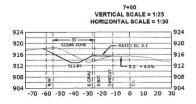


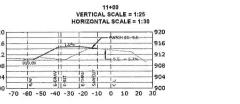


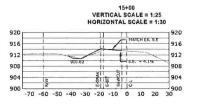


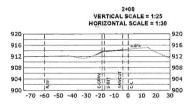


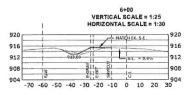


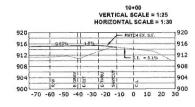


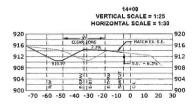




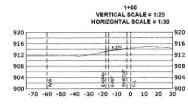


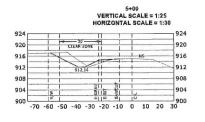


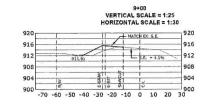


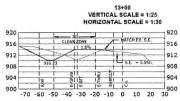


ALL GREEN AREA SLOPES ARE 4:1 UNLESS OTHERWISE NOTED S.E. = SUPER-ELEVATION NS = NOT SUPER-ELEVATED







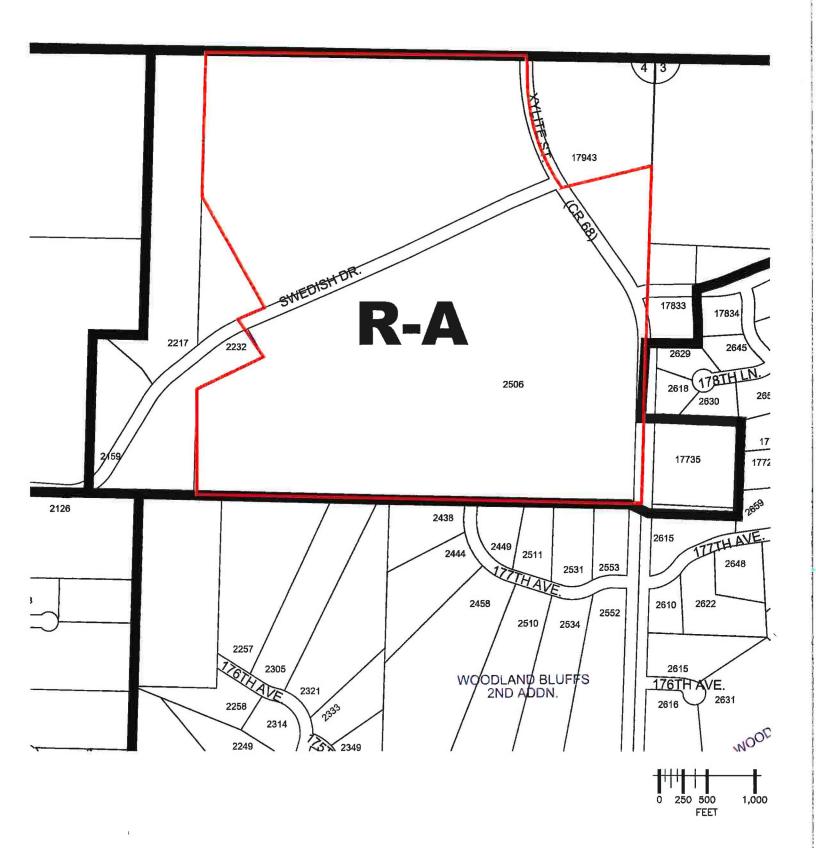


SHEET

C4.3

LEFT & RIGHT TURN LANE PLAN

SWEDISH CHAPEL ESTATES





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

BLT. 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 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.

Tim Kel

District Administrator

Ce:

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".

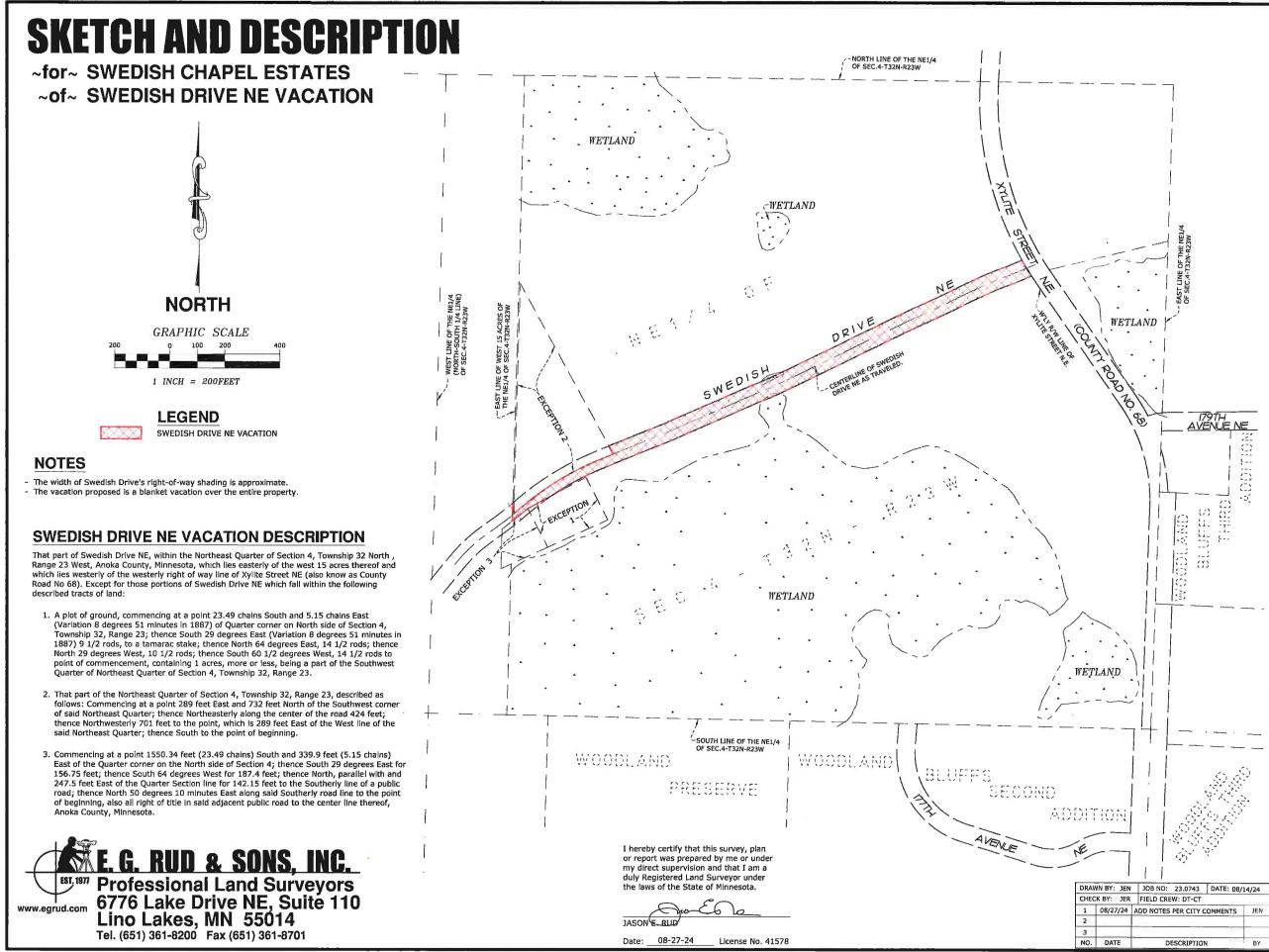
The penalty for violating the Bald and Golden Eagle Protection Act can result in a fine of \$100,000 (\$200,000 for organizations), imprisonment for one year, or both, for a first offense. Penalties increase substantially for additional offenses, and a second violation of this Act is a felony. So it 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 6 **NORTH** GRAPHIC SCALE 5 BOTHLANE 1 LNCH = 100FEET UPBANK 3 **LEGEND** DENOTES TRAIL EASEMENT (TOTAL TRAIL EASEMENT AREA = 36,256 S.F.) OTREET 2 10 3 M Z NE COUNTY RODD NAME OF RELET 6E DRIVE SWEDISH OUTLOT Â 2 2 2 URBANK 179TH AVENUE NE 41 3 OTREET 8 179TH AVENUE NE 5 5 25.00 2 10 6 0 25.00---O, 2 0 4 0 2 Q CCOUNT TRAIL EASEMENT-

NOTES

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



TRAIL EASEMENT DESCRIPTION

J2BANK

10

A perpetual easement for trall 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,

STREET

8

15.00---25.00---

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S Ш 7117

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1.

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

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