## CITY OF HAM LAKE



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

## CITY OF HAM LAKE PLANNING COMMISSION AGENDA MONDAY, FEBRUARY 24, 2025

CALL TO ORDER: 6:00 p.m.

PLEDGE OF ALLEGIANCE

APPROVAL OF MINUTES: February 10, 2025

**PUBLIC HEARING:** 

**6:01 p.m.** Jeff Entsminger, Entsminger Enterprises, LLC, requesting Preliminary and

Final plat approval and rezoning of portions of land from R-1 (Single Family Residential) to R-A (Rural Single Family Residential) for Entsminger Estates located at 2045 Constance Boulevard NE (3 Single Family

Residential lots and 1 outlot) in Section 16.

#### **NEW BUSINESS:**

1. None

#### **COMMISSION BUSINESS:**

1. City Council Update

## CITY OF HAM LAKE PLANNING COMMISSION MINUTES MONDAY, FEBRUARY 10, 2025

The Ham Lake Planning Commission met for its regular meeting on Monday, February 10, 2025, 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, Jeff

Entsminger, David Ross, Dave Ringler and Erin Dixson

**MEMBERS ABSENT:** 

Commissioner Jonathan Fisher

**OTHERS PRESENT:** 

City Engineer Dave Krugler 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:**

Motion by Ross, seconded by Lejonvarn, to approve the minutes of the December 9, 2024, Planning Commission meeting as written. All present in favor, motion carried.

Chair Pogalz asked to address the Citrowske sketch plan prior to the public hearing for Elwell Commercial Park.

#### **NEW BUSINESS:**

Richard Citrowske requesting Sketch Plan approval of a residential development (two lots) in Section 26

Mr. Richard Citrowske was present. Mr. Citrowske stated he wants to divide his parcel into two lots so he can sell a lot. Mr. Citrowske stated that a third lot may be created in the future in phase two of the development. Chair Pogalz asked Engineer Krugler to comment. Engineer Krugler stated the 11.4-acre parcel being divided is part of the Citrowske Addition plat which was approved in 1991. Engineer Krugler stated Mr. Citrowske is proposing to divide Lot 3, Block 1 of Citrowske Addition into three lots eventually; the first phase is to divide the parcel into two lots. Engineer Krugler stated if proposed Lot 1 is divided in the future, the existing pole barn will need to be removed as a pole barn cannot be on a parcel that does not have a dwelling unit; future submittals will be required to show the removal of the pole barn. Engineer Krugler stated the sketch

plan shows the location of septic and building pad borings for each lot; the soil boring logs must be submitted to the city for review. Engineer Krugler stated approval of the existing wetland delineation and plat approval is required from Coon Creek Watershed District. Engineer Krugler stated this sketch plan will follow the minor platting process where review of the preliminary and final plats will be done at the same meeting. Engineer Krugler stated Public Works Superintendent Witkowski recommends a \$2500 parkland dedication fee and a \$200 drainage fund contribution fee be paid for Lot 2. Chair Pogalz asked Engineer Krugler to verify that this sketch plan proposes to create a lot to the east of Mr. Citrowske's current home and the third lot proposed for phase two is to the west of his home. Engineer Krugler confirmed that was correct. Motion by Pogalz, seconded by Entsminger, to recommend approval of the Sketch Plan presented by Richard Citrowske for two residential lots in Section 26 subject to paying a \$2500 parkland dedication and \$200 drainage fund contribution fee for Lot 2, submitting soil boring logs to the city for compliance review, ordering a septic compliance inspection on the existing septic system and submitting results to the city prior to preliminary plat approval, obtaining Coon Creek Watershed District approval, meeting the requirements of the City Engineer and meeting all City, County and State requirements. Chair Pogalz asked Mr. Citrowske if he understood the conditions. Mr. Citrowske stated he understood. All present in favor, motion carried. This application will be placed on the City Council's Tuesday, February 18, 2025, agenda.

Commissioner Entsminger removed himself from the table due to his ownership interest in property adjacent to the proposed Elwell Commercial Park development and the potential for financial benefit as a contractor for the development.

#### **PUBLIC HEARING:**

Art Rosenberg of Lincoln Street Commercial, LLC, requesting Preliminary Plat approval and to rezone portions of land from CD-1 (Commercial Development I) to CD-2 (Commercial Development II) and portions of land from CD-1 (Commercial Development I) to R-A (Rural Single Family Residential) and portions of land from CD-2 (Commercial Development II) to CD-1 (Commercial Development I) for the Elwell Commercial Park Development (four commercial lots and one residential outlot) in Section 29

Mr. Art Rosenberg and Mr. Paul Boerboom from Lincoln Street Commercial, LLC, were present. Mr. Rosenberg spoke on behalf of the project. Mr. Rosenberg stated they are ready to move forward with the development of the plat. Mr. Rosenberg stated one lot is under contract and he hopes that the remaining three lots will be purchased this year. Mr. Rosenberg stated the goal is to have the development completed by the end of May. Chair Pogalz asked Engineer Krugler to comment. Engineer Krugler stated the proposed development is on 37.25 acres. Engineer Krugler stated most of the land to the north and west of the four proposed commercial lots will be an outlot. Engineer Krugler stated a road easement for a future northern connection from 143<sup>rd</sup> Avenue NE to Andover Boulevard NE is shown on the plat. Engineer Krugler stated the two proposed western lots will be zoned Commercial Development I (CD-2), the two proposed eastern lots will be zoned Commercial Development I (CD-1) and the outlot will be zoned Rural Single Family Residential (R-A). Engineer Krugler stated the MSA commercial portion of 143<sup>rd</sup> Avenue NE from Highway 65 NE to Lincoln Street NE does not have the structural capacity for commercial traffic. Engineer Krugler stated originally the developer intended

to upgrade 143<sup>rd</sup> Avenue NE from Highway 65 NE to Johnson Street NE but per the recommendation of the Road Committee, the City Council has requested a feasibility study be provided to determine the viability of the city upgrading 143rd Avenue NE from Highway 65 NE to Lincoln Street NE; the feasibility study will be presented to the City Council at the February 18, 2025, meeting. Engineer Krugler stated the city would like to use MSA funding for the upgrade of 143<sup>rd</sup> Avenue NE. Engineer Krugler stated there is an existing billboard on proposed Lot 2. Engineer Krugler stated the billboard must be relocated or removed: if the billboard is relocated, it will require compliance with Article 11-320 of City Code and a sign permit will be required. Engineer Krugler stated there is a 50-foot Northern Natural Gas (NNG) easement over the southerly portion of the property; the development plans note requirements of working within the pipeline easement and state a NNG representative must be on-site when work is done within 25feet of the pipeline. Commissioner Lejonvarn asked Engineer Krugler what changed to prompt the city to order a feasibility study to upgrade 143rd Avenue NE. Engineer Krugler stated the Road Committee determined it would be prudent to upgrade 143rd Avenue NE from Highway 65 NE to Lincoln Street NE rather than just have 143rd Avenue NE upgraded to Johnson Street NE due to the future connection of 143rd Avenue NE to Andover Boulevard NE via Lincoln Street NE. Chair Pogalz completed the inspection, a copy which is on file. Chair Pogalz stated the property is open land with residential homes adjacent to the development south of 143rd Avenue NE. Chair Pogalz stated a well casing is visible on the parcel. Mr. Rosenberg stated the wells for the houses that used to be on the property have been abandoned and sealed. Chair Pogalz stated there are approaches to Highway 65 NE to the east of the development. Engineer Krugler stated it is the developer's responsibility to remove the approaches located on Highway 65 NE. Chair Pogalz asked Engineer Krugler what the plan is for the northern extension of Lincoln Street NE. Engineer Krugler stated Lincoln Street NE is a designated frontage and MSA route from Bunker Lake Boulevard NE to Andover Boulevard NE and northward via Pierce Street NE until it connects with Central Avenue NE. Chair Pogalz asked Engineer Krugler when Lincoln Street NE extension to the north would be constructed. Engineer Krugler stated any projected timeline would be speculation at this time.

## Chair Pogalz opened the public hearing at 6:20 p.m. and asked for public comment.

Chair Lejonvarn asked if 143<sup>rd</sup> Avenue NE would be upgraded before construction starts on proposed Lot 1. Engineer Krugler stated if the City Council approves the feasibility study at the February 18, 2025, meeting, bids could be solicited in May or June.

<u>Tim Mayville, 14250 Pierce St NE</u>. Mr. Mayville stated he is wondering what the development plans are for the farmland to the west of Elwell Commercial Park. Mr. Mayville stated a lot of dirt has been brought onto that parcel and he is wondering if the dirt will be used for farming or for fill for future development. Mr. Mayville stated he is looking forward to a connection between 143<sup>rd</sup> Avenue NE and Andover Boulevard NE. Mr. Mayville stated if additional development is done in the area, he would like to see fiber optic internet services become available to residents in Ham Lake.

Engineer Krugler stated the extension of Lincoln Street NE is on a project list for the future. Chair Pogalz stated that to comment on the development of the farmland to the west of Elwell Commercial Park would be speculative at this time. Chair Pogalz stated if

the land to the west of the proposed development would be rezoned in the future, a notice would be sent out and a public hearing would be held

<u>Chris Sickmann, 1302 143<sup>rd</sup> Avenue NE</u>. Mr. Sickmann stated extending Lincoln Street NE would be ideal for and additional access point to his residence and the area. Mr. Sickmann asked what the land west of Elwell Commercial Park will be zoned and asked if there would be development to the west of the commercial park. Mr. Sickmann stated he would like that area to remain residential.

Engineer Krugler stated the land to the west of proposed Elwell Commercial Park will be zoned Rural Single Family Residential (R-A). Engineer Krugler stated it will remain R-A until a development is proposed on that land in the future.

Chair Pogalz closed the public hearing at 6:34 p.m.

Motion by Pogalz, seconded by Dixson, to recommend approval of the Preliminary Plat and rezoning of Elwell Commercial Park, a four lot, one outlot commercial subdivision in Section 29 as presented by Art Rosenberg, of Lincoln Street Commercial, LLC, subject to the City Council approving the feasibility study and ordering plans and specifications to upgrade 143<sup>rd</sup> Avenue NE to meet commercial requirements from Highway 65 NE to Lincoln Street NE, providing the city with a quit claim deed for the realignment of the Lincoln Street NE connection from 143rd Avenue NE to Andover Boulevard NE, providing proof of the conveyance of Outlot A to 1163 143<sup>rd</sup> Avenue NE, no issuance of building permits, for any of the commercial lots, will be done until proof of conveyance is received, razing the existing billboard on proposed Lot 2, obtaining a sign permit in conformance with Articles 11-310.2 and 11-320 for any future signs and providing access to any future signs, obtaining approval, including rezoning, for any future lots within any portion of the expanded 1163 143rd Avenue NE, meeting the requirements of the City Engineer, meeting all City, State and County requirements. Commissioners Pogalz, Lejonvarn, Ringer, Ross, and Dixson voted yes, Commissioner Entsminger abstained from the vote. Motion carried. This application will be placed on the City Council's Tuesday, February 18, 2025, agenda.

#### **COMMISSION BUSINESS:**

City Council Update

Chair Pogalz informed the Commissioners that the City Council concurred with the Commission's recommendations to approve the preliminary and final plats for Elevate Hope House. There will not be a Planning Commissioner present at the February 18, 2025, City Council meeting.

#### ADJOURNMENT:

Motion by Dixson, seconded by Lejonvarn, to adjourn the Planning Commission meeting at 6:38 p.m. All present in favor, motion carried.

Jennifer Bohr Building and Zoning Clerk

# CITY OF HAM LAKE PLANNING COMMISSION REQUEST APPLICATION INSPECTION REPORT

MTG DATE: February 24, 2025

INSPECTION ISSUED TO: David Ross
APPLICANT/CONTACT: <u>Jeff Entsminger, Entsminger Enterprises</u>
TELEPHONE NUMBER: 612-669-4004, jeff@allseasonservices.com
BUSINESS/PLAT NAME: Entsminger Estates
ADDRESS/LOCATION OF INSPECTION: 2045 Constance Blvd NE
APPLICATION FOR: Preliminary Plat & Rezoning
RECOMMENDATION:
DATE:
PLANNING COMMISSIONER SIGNATURE:



## **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 $8/7/24$	Date of Receipt
Date of Application	Receipt # Amount \$
Meeting Appearance Dates: Planning Commission 2.24-7	City Council
Please check request(s):  Metes & Bounds Conveyance Sketch Plan Preliminary Plat Approval* Final Plat Approval Rezoning* Multiple Dog License*	Commercial Building Permit Certificate of Occupancy Home Occupation Permit Conditional Use Permit (New)* Conditional Use Permit (Renewal)
*NOTE: Advisory Signage is required for land use	e alterations and future road connections. This ng. Such fees shall be deducted from deposit.
Development/Business Name: ENTSMIN	GER ESTATES
Address/Location of property: 2045 Co.	NSTANCE BOULEVARD NE
Legal Description of property: Pnt. ゆに No	E'14 OF NW14, SEC. 16, T.32, 12, 23
PIN # 16-32-23-21-000/ Curre	ent Zoning $\frac{\cancel{\cancel{P}}\cancel{\cancel{1}}/\cancel{\cancel{P}}\cancel{\cancel{P}}$ Proposed Zoning $\cancel{\cancel{P}}\cancel{\cancel{1}}$
Notes: 3 residential lots and	1 outlot
Applicant's Name: JEFF ENTSN	INGER
Business Name: ENTSMINGER	ENTERPRISES, LLC
Address 14916 CENTIVA	L AVENUE NE
City HAM LAICE	State <i>MN</i>
Phone <u>763-767-6070</u> Cell Phone <u>(</u>	612-669- 4004 Fax
Email address <u>jeffe all s</u>	season services, com
not begin to run until all of the required items ha	
SIGNATURE // ///////	DATE 8/7/24
************************************	**************************************
ACTION BY: Planning CommissionCity Council	PROPERTY TAXES CURRENT (YES ) NO

## CITY OF HAM LAKE



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

## NOTICE OF PUBLIC HEARING CITY OF HAM LAKE COUNTY OF ANOKA STATE OF MINNESOTA

TAKE NOTICE, that pursuant to the requirements of Minnesota Law, a public hearing shall be held before the Ham Lake Planning Commission on Monday, February 24, 2025 at 6:01 p.m. at the City Hall located at 15544 Central Avenue NE for the purpose of considering the application of Jeff Entsminger, Entsminger Enterprises, LLC, requesting preliminary and final plat approval and rezoning of portions of land from R-1 (Single Family Residential) to R-A (Rural Single Family Residential) for Entsminger Estates in Section 16, a parcel of certain land situated in the City of Ham Lake, Anoka County, Minnesota and which is described as follows to wit:

The West Half of the Northeast Quarter of the Northwest Quarter of Section 16, Township 32, Range 23, Anoka County, Minnesota,

EXCEPT the following described tracts:

Commencing at the Southwest corner of said Northeast Quarter of the Northwest Quarter; thence North along the West line thereof 323.65 feet to the actual point of beginning of the land to be described; thence East parallel with the South line of said Northeast Quarter of the Northwest Quarter 150 feet; thence North parallel with said West line 290.63 feet; thence West to a point on said West line 290.63 feet North of the point of beginning; thence South to the point of beginning.

ALSO EXCEPT: Commencing at a point on the South line of said Northeast Quarter of the Northwest Quarter 150 feet East of the southwest corner thereof; thence North parallel with the West line thereof 505.17 feet to the actual point of beginning of land to be described (for the purpose of this description the West line of said Northeast Quarter of the Northwest Quarter bears due North); thence North 75 degrees 37 minutes East 266 feet; thence North 14 degrees 23 minutes West 200 feet; thence South 75 degrees 37 minutes West to intersect a line bearing North from the point of beginning; thence south to the point of beginning.

ALSO EXCEPT: Commencing at a point on the south line of said Northeast Quarter of the Northwest Quarter 150 feet East of the Southwest corner thereof; thence North along a line to be hereafter known as Line A, said Line A being parallel with the West line of said Northeast Quarter of the Northwest Quarter (for the purpose of this description the West line of said Northeast Quarter of the Northwest Quarter bears due North and South) 323.65 feet; thence East parallel with said South line of said Northeast Quarter of the Northwest Quarter to intersect a line parallel with and 66 feet East of said Line A (as measured at right angles to said Line A) said point of intersection to be hereafter known as Point C; thence return along the mentioned parallel line to said Line A; thence North along said Line A, 181.52 feet; thence North 75 degrees 37 minutes East along a line to be hereafter known as Line B, 266 feet; thence South 14 degrees 23 minutes East 66 feet to the actual point of beginning of the land to be described: thence South 75 degrees 37 minutes West to intersect said line 66 feet East of Line A; thence South along said parallel line to said Point C; thence North 75 degrees 37 minutes East to intersect with a line bearing South 14 degrees 23 minutes East from the point of beginning; thence North 14 degrees 23 minutes West to the point of beginning.

At such hearing both written and oral comments will be heard.

DATED: February 14, 2025 Jennifer Bohr Building and Zoning Clerk City of Ham Lake



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

## Memorandum

Date:

February 20, 2024

To:

Planning Commissioners

From:

David A. Krugler, City Engineer

Subject:

**Entsminger Estates** 

#### Introduction:

The Title Sheet, Grading, Drainage, Erosion Control and Livability Plan, Preliminary Plat, Removal Plan, Basin 2 & 3 Details & Lot 3 Driveway Culvert, Basin 1 Detail, Storm Water Pollution Prevention Plan and Details were received on January 31st, the revised Stormwater Drainage Report was received on February 10th and the Final Plat received on February 19th for the proposed 3 lot residential development located on 17.2 acres of parcel 16-32-23-21-0001. The Sketch Plan was approved at the July 1, 2024 City Council meeting. The parcel is partially zoned Single Family Residential (R-1) and partially zoned Rural Single Family Residential (R-A). The three residential lots will be zoned R-1, and the outlot that is being combined with 16337 Mankato Street will be zoned R-A. A 600-scale zoning map, a 400-scale half-section map and a 300-scale aerial photo are attached

#### Discussion:

The proposed subdivision falls under City Code Section 10-101. Consideration of approving both the preliminary and final plat will be before the Planning Commission at the same meeting, following the public hearing. A 66-foot-wide access opening is shown for "Mankato Street". Although Mankato Street and 164th Avenue appear to be public streets on the half-section map. However, these roadways are 66-foot-wide "road easements", they are private ingress/egress easements. Lot 1 shows Constance Boulevard as the required frontage of 216 feet, which includes the 66-foot-wide ingress/egress easement.

Plans identify the existing house, two existing accessory buildings and the existing shed as being razed. Plans show the existing septic system being abandoned per MPCA requirements. Plans show the existing 91-foot-deep well will be sealed. The existing fence does not comply with City Code 11-250 and must be removed. There is a six-foot jog of the Outlot/Lot 2 lot line to accommodate the setback for the building located on 16337 Mankato Street. Lot 2 is larger than 1.5 acres and complies with City Code 10-430.I to allow the lot line jog.

The rear yard setback for Lot 1 is shown adjacent to the northern lot line. However, driveway access is proposed from the "Mankato Street" ingress/egress easement. Per 11-411.2C of City Code, the apparent entrance or front of the home must be parallel to Constance Boulevard.

Per the attached Proposed Municipal Bike Trail System exhibit, Constance Boulevard is identified as a proposed bike path. A 15-foot-wide trail easement, adjacent to the drainage and utility easements, is required for all three lots. Similar trail easements were required from Lake Netta Preserve and Nettas Preserve. Per correspondence with Public Works Superintendent John

Witkowski, parkland dedication is not recommended. Parkland dedication fees will be credited with the value of the trail easements for compliance with Article 10-420B of the City Code. The developer will need to pay a \$200 drainage fund contribution for each lot.

The approved Coon Creek Watershed District (CCWD) Permit is attached. No portion of the three proposed residential lots is located within the FEMA Zone A 100-year flood boundary. County Ditch 58-4 traverses through the northern portion of the outlot.

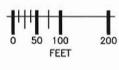
Constance Boulevard (County Road 60) is under Anoka County jurisdiction. The approved Anoka County Highway Department permit is attached. The 30-foot-wide access opening for the Lot 3 driveway and will limit the driveway to be a maximum width of 20-feet, because the driveway has to be 10-feet from the common property line so that the driveway is outside of the side yard drainage and utility easement. The applicable portion of Anoka County Highway Right-of-Way Plat No. 44, referenced on the Preliminary Plat, is attached.

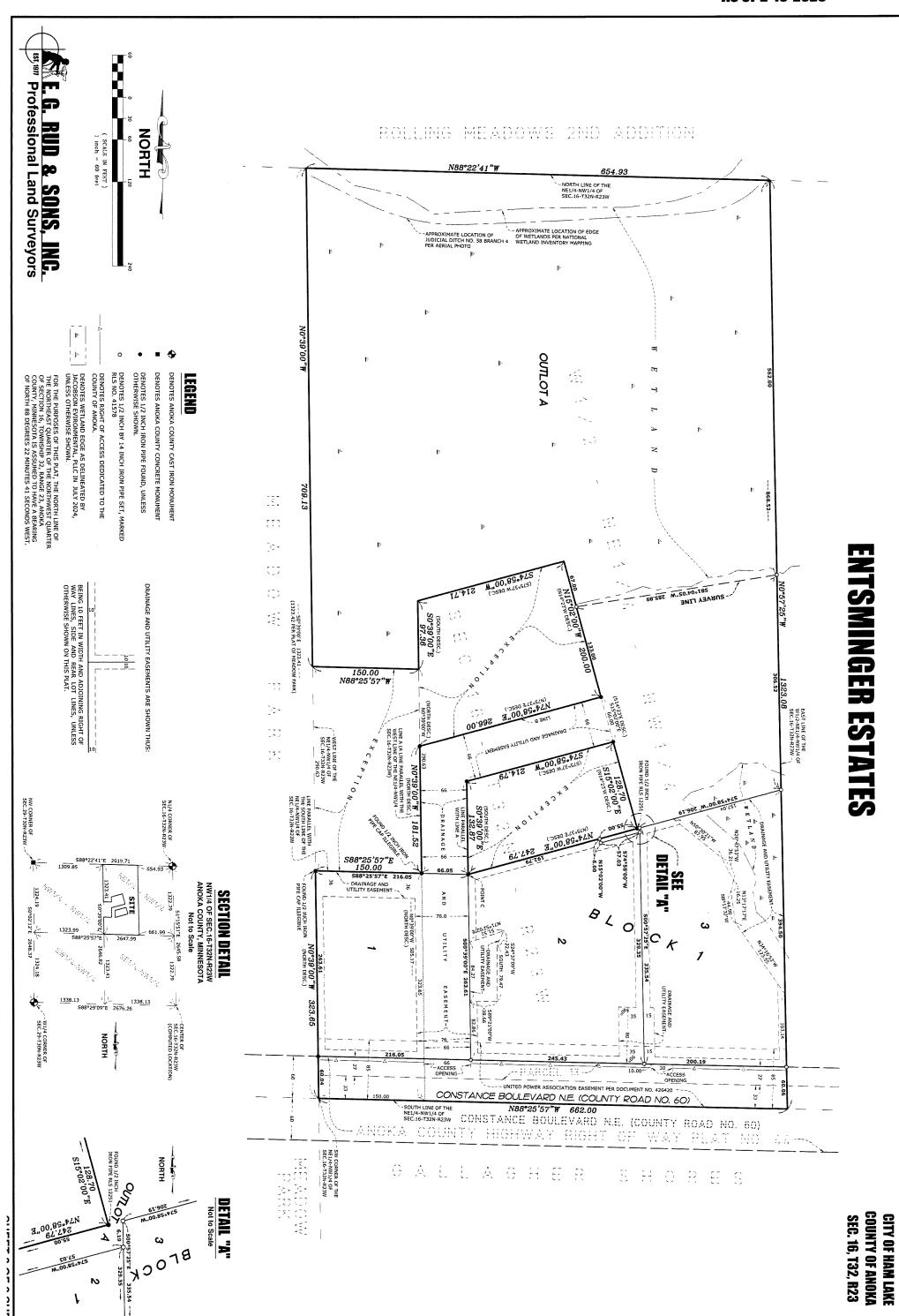
There is an 85-foot side United Power Association Easement that encroaches 25-feet into the southerly portion of the three proposed lots. Written approval needs to be provided for the Lot 3 driveway crossing, the future trail and any grading within the Easement.

#### **Recommendations:**

It is recommended that the preliminary and final plat of Entsminger Estates be recommended for approval.

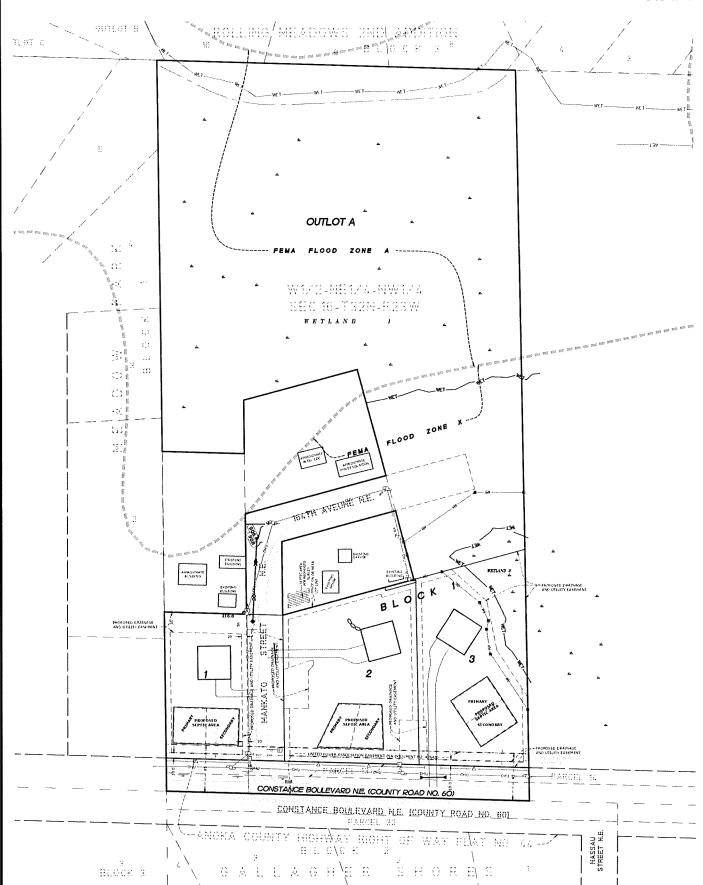




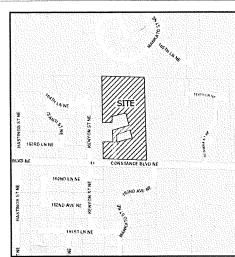


## **ENTSMINGER ESTATES**

**TITLE SHEET** HAM LAKE, MINNESOTA



#### VICINITY MAP ( NOT TO SCALE )



#### DEVELOPER

ENTSMINGER ENTERPRISES
14916 CENTRAL AVE NE
HAM LAKE, MN 55304
JEFF ENTSMINGER
612-669-4004
JEFF@ALLSEASONSERVICES.COM

#### **ENGINEER**

PLOWE ENGINEERING, INC. 6776 LAKE DRIVE LINO LAKES, MN 55014 ADAM GHKEL, P.E. 651-361-8234 ADAM@PLOWE.COM

#### SURVEYOR

E.G. RUD & SONS LAND SURVEYING, INC. 6776 LAKE DRIVE LINO LAKES, MN 55014 JASON RUD 651-361-8225 JRUD@EGRUD.COM

AN MPCA NPDES CONSTRUCTION PERMIT IS REQUIRED PRIOR TO THE START OF CONSTRUCTION

ALL PERMITS, INCLUDING BUT NOT LIMITED TO PERMITS FROM CITY OF HAM LAKE, MNDOT, AND THE MINNESOTA
DEPARTMENT OF LABOR AND INDUSTRY, SHALL BE OBTAINED PRIOR TO ORDERING OF MATERIAL AND STARTING OF CONSTRUCTION. NO INSTALLATION OF UTILITIES SHALL BE PERMITTED UNTIL ALL APPLICABLE PERMITS ARE RECEIVED BY CONTRACTOR. INSTALLATION OF UTILITIES SHALL BE CONSTRUCTED TO MINNESOTA DEPARTMENT OF LABOR AND INDUSTRY STANDARDS AND CITY STANDARDS AS IDENTIFIED IN THE PUBLIC WORKS/ENGINEERING STANDARDS.



#### SHEET INDEX

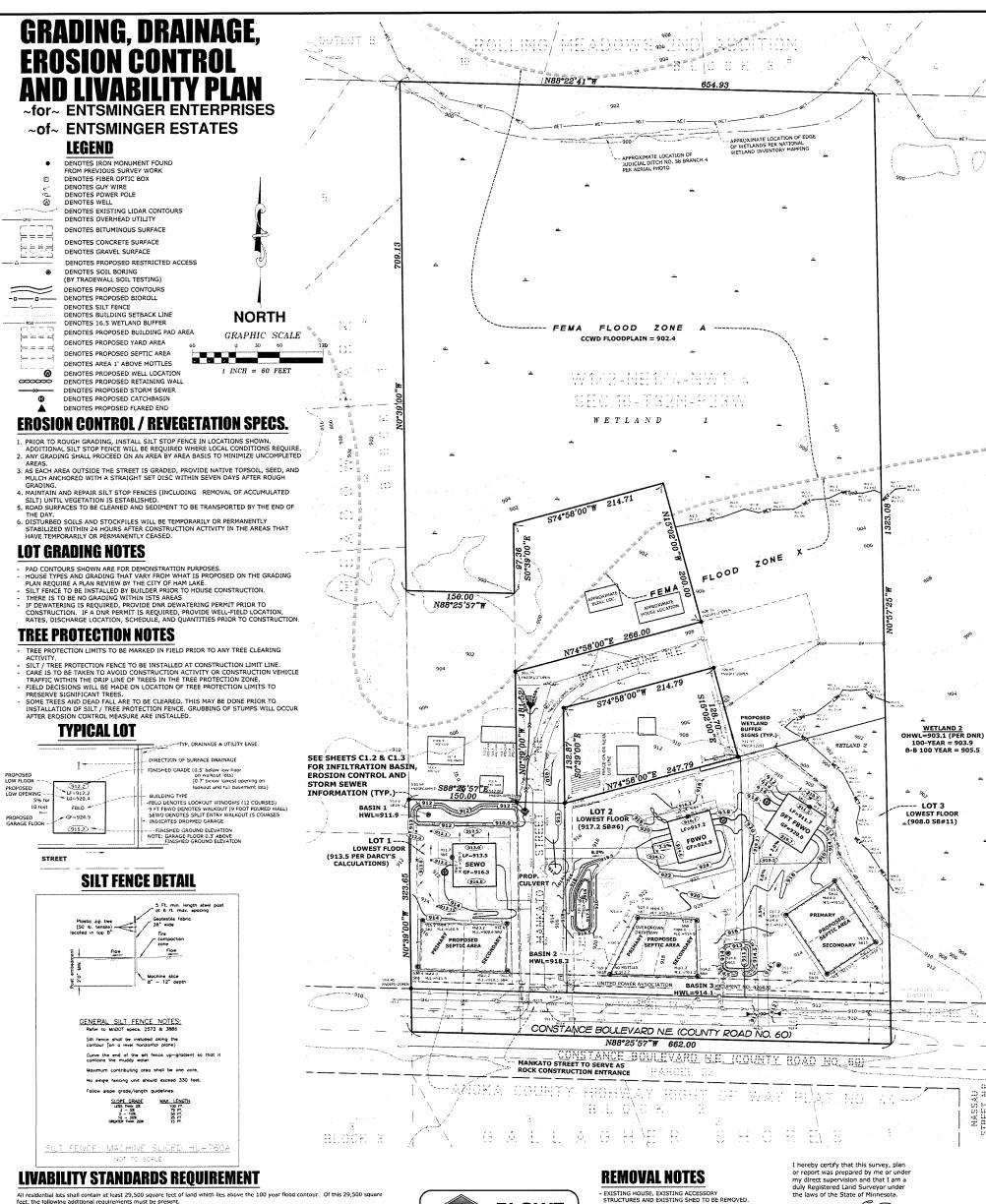
GRADING, DRAINAGE, EROSION CONTROL AND LIVABILITY PLAN

REMOVALS PLAN BASIN DETAILS & LOT 3 DRIVEWAY CULVERT

SHEET

PLOWE ENGINEERING, INC. 6775 LARE DRIVE SUITE 110 LINO LAKES, MIL 55014 PHONE: (851) 381-8210

ENTSMINGER ESTATES



- 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 Eligible building Area or the Yard Area, but the entire ISTS Area must exist at an elevation at least one foot above Unsustable Soils, and must contain Undisturbed Soils or soils which meet the requirements of Rule 7080 of the Minnesota Pollution Control Agency for ISTS construction standards. The ISTS Area may be Irregular in shape, provided they do not encroach into areas reserved by easement or otherwise for roadway, drainage or utility purposes, and provided that all of the area can be reasonably used for ISTS construction without the need for variances.

  B. Eligible Building Area Each lot shall contain at least 1,000 square feet of contiguous land which like at an elevation at least four feet above Unsuitable Soils. The Eligible Builling Area may not be Irregular in shape, and should be generally rectangular or ovoid, with no panhandles, narrow necks or peninsulas. Eligible Building Areas may not encroach into any areas reserved by easement or otherwise for roadway, drainage or utility purposes. Fill may be used to create Eligible Building Area.

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

  Lies at least one foot above soils unsuitable for the Intended usage of the Yard area, and iii) Is contiguous to the Eligible Building Area.

  C. Yard Area as one foot above soils unsuitable for the Intended usage of the Yard area, and iii) Is contiguous to the Eligible Building Area or a distance of at least fifty percent of the Ilineal perimeter of the Eligible Building Area. Yard Areas may encroach into the dedicated assement area which lies at a distance of the refet from the Perimete

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

**PLOWE** ENGINEERING, INC. 6776 LAKE DRIVE SUITE 110 LINO LAKES, MN 55014 SITE PLANNING PHONE: (651) 361-8210 & ENGINEERING FAX: (651) 361-8701 I HEREBY CERTIFY THAT THIS GRADING PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. ADAM GINKEL DATE: 1.30.2025 LIC, NO. 43963

EXISTING HOUSE, EXISTING ACCESSORY STRUCTURES AND EXISTING SHED TO BE REMOVED. EXISTING SEPTIC (NOT FIELD LOCATED) TO BE REMOVED PER MPCA REQUIREMENTS

J SON E. RUD Date: 01/30/25 License No. 41578 DRAWN BY: JEN JOB NO: 230987HS DATE: 10/28/24
CHECK BY: JER FIELD CREW: BH-BJ 1 12/16/24 REV. PER CITY COMMENTS 2 D1/30/25 REV. PER CITY COMMENTS

NO. DATE DESCRIPTION www.egrud.com

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

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LOT	BLOCK	TOTAL LOT AREA (S.F.)	YARD AREA	SEPTIC AREA (S.F.)		PROPOSED BUILDING PAD 4 FT ABOVE UNSUITABLE (S.F.)	GARAGE FLOOR ELEVATION	PROPOSED LOW FLOOR ELEVATION	PROPOSED LOW OPENING ELEV.	LOWEST FLOOR ELEVATION	DETERMINING FACTOR	BORING #	BORING ELEVATION	MOTTLES ELEVATION	BUILDING TYPE	CUSTOM GRADED
1	1	56,909	12,371	7,860	10,000	10,000	916,3	913.5	913.5	913.5	HWL BASIN 1	SB1 SB2 SB3 SB4 SB5	911.7 915.2 912.6 912.5 915.4	908.0 910.5 909.4 910.3 911.4	SEWO	NO
2	1	72,876	43,188	8,000	10,000	7,273	924.9	917.2	917.2	917.2	MOTTLED SOILS PER SB6	586 587 588 589 5810	920.9 920.3 918.0 914.5 919.6	916.2 915.8 914.0 913.3 913.2	FBWO	NO
3	1	73,004	29,174	8,000	10,000	9,252	920.0	911.7	911,7	908,0	MOTTLED SOILS PER SB11	SB11 SB12 SB13 SB14 SB15	912.2 915.0 917.2 912.3	907.0 911.0 912.4 911.0	9FT FBWO	МО

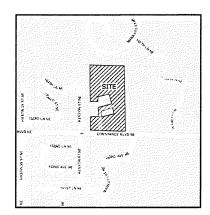
**LIVABILITY CHART** 

## PRELIMINARY PLAT

~for~ ENTSMINGER ENTERPRISES ~of~ ENTSMINGER ESTATES

## **VICINITY MAP**

PART OF SEC. 16, TWP. 32, RNG. 23



ANOKA COUNTY, MINNESOTA (NO SCALE)

## **DEVELOPMENT DATA**

= 3 LOTS = 1 OUTLOT = 0.91 ± ACRES = 1.56 ± ACRES EXCLUDING PUBLIC R/W NUMBER OF OUTLOTS RIGHT-OF-WAY DEDICATION AVERAGE LOT SIZE

## **ZONING INFORMATION**

SOUTH HALF OF THE SITE IS R-1 - SINGLE FAMILY RESIDENTIAL NORTH HALF OF THE SITE IS R-A - RURAL SINGLE FAMILY RESIDENTIAL

R-1 - SINGLE FAMILY RESIDENTIAL LOT REQUIREMENTS

MINIMUM LOT AREA = 1.0 ACRES (INCLUDING HALF OF STREET R/W) = 200 FEET MINIMUM STREET FRONTAGE CUL-DE-SAC = 60 FEET

### **SETBACKS**

[DESCRIPTION FOR 2045 CONSTANCE BLVD NE PER ANOK, COUNTY WARRANTY DEED DOCUMENT NO. 868047.]

= 50 FEET = 30 FEET = 10 FEET = 50 FEET = 25/15 FEET PENDING QUALITY OF WETLAND

### PROPERTY DESCRIPTION

Commencing at the Southwest corner of said Northeast Quarter of the Northwest Quarter; thence North along the West line thereof 323.65 feet to the actual point beginning of the land to be described; thence East parallel with the South line of said Northeast Quarter of the Northwest Quarter 150 feet; thence North parallel with said West line 290.63 feet; thence West to a point on said West line 290.63 feet North of the point of beginning; thence South to the point of beginning.

ALSO EXCEPT: Commencing at a point on the South line of said Northeast Quarter of the Northwest Quarter 150 feet East of the southwest corner thereof; thence North parallel with the West line thereof 505,17 feet to the actual point of beginning of land to be described (for the purpose of this described not the West line of head to be described the Northwest Quarter bears due North); thence North 75 degrees 37 minutes East 266 feet; thence North 14 degrees 23 minutes West 200 feet; thence South 75 degrees 37 minutes West to Intersect a line bearing North from the point of beginning; thence south to the point of beginning.

ALSO EXCEPT: Commencing at a point on the south line of said Northeast Quarte the Northwest Quarter 150 feet East of the Southwest corner thereof; thence No along a line to be hereaster known as Line A, said Line A being parallel with the West line of said Northeast Quarter of the Northwest Quarter (for the purpose of this description the West line of said Northeast Quarter of the Northwest Quarter bears due North and South just 23.45 feet; thence East parallel with said South line hears due North and South) 323.65 feet; thence East parallel with said South line of said Northeast Quarter of the Northwest Quarter to intersect a line parallel with and 66 feet East of said Line A (as measured at right angles to said Line A) said point of intersection to be hereafter known as Point C; thence return along the mentioned parallel line to said Line A; thence North along said Line A, 18.152 feet; thence North 175 degrees 37 minutes East along a line to be hereafter known as Line B, 266 teet; thence South 14 degrees 23 minutes East 66 feet to the actual point of beginning of the land to be described; thence South 195 degrees 37 minutes west to the control of the said parallel line to self point of the control of the said parallel line to self point of the control of the control of the said parallel line to self point of the said parallel line to self point of the said point of the said

## **ROAD EASEMENT NOTES**

## **TYPICAL DRAINAGE AND UTILITY EASEMENT DETAIL**

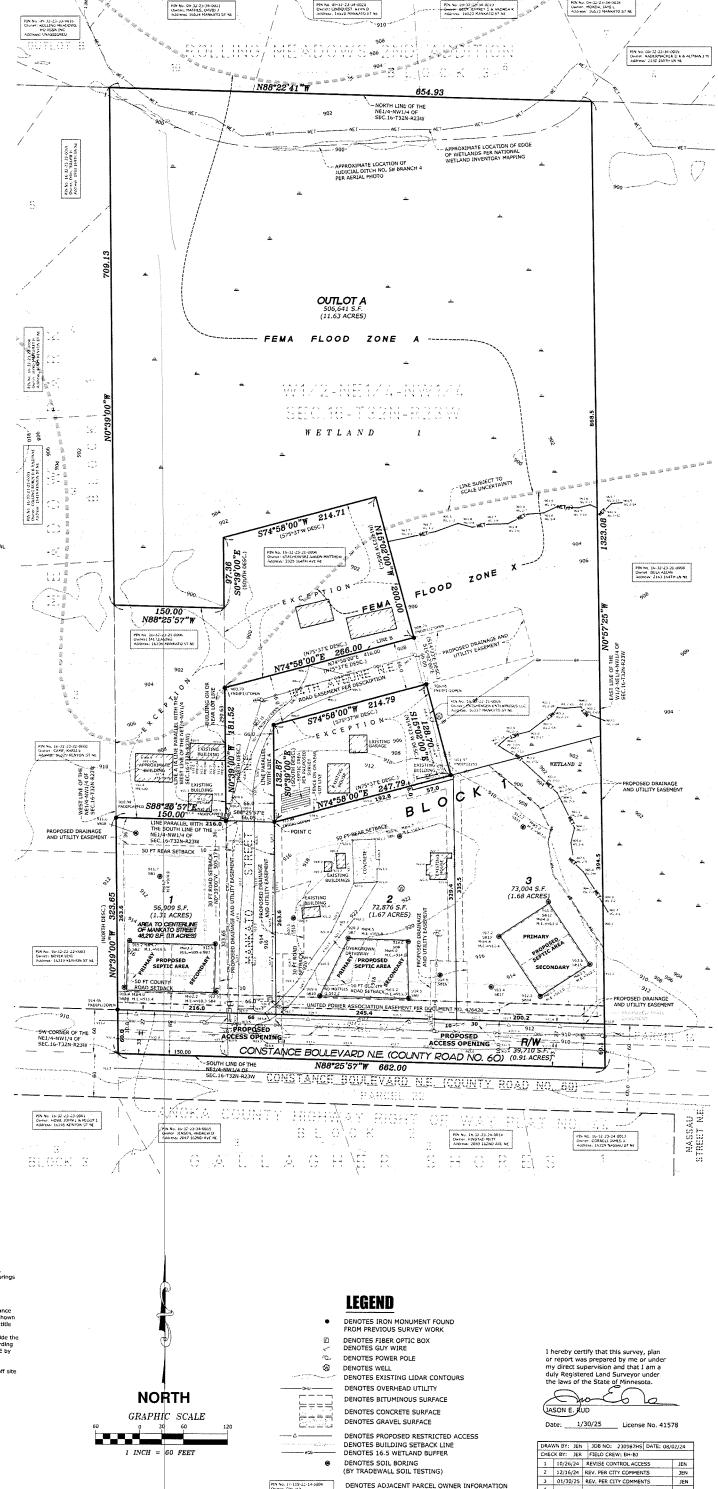
DRAINAGE AND UTILITY EASEMENTS ARE SHOWN THUS:



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

## **NOTES**

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

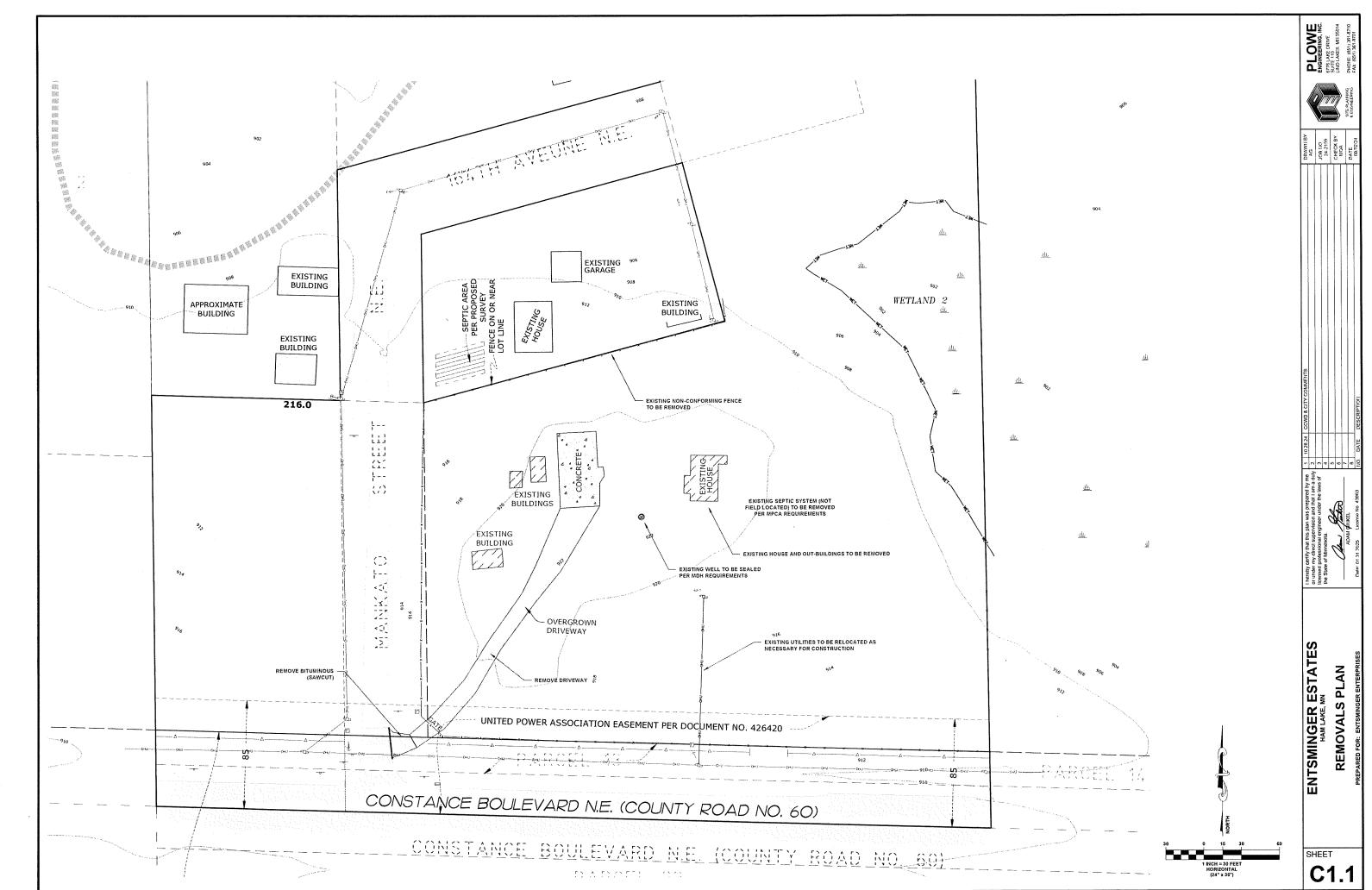


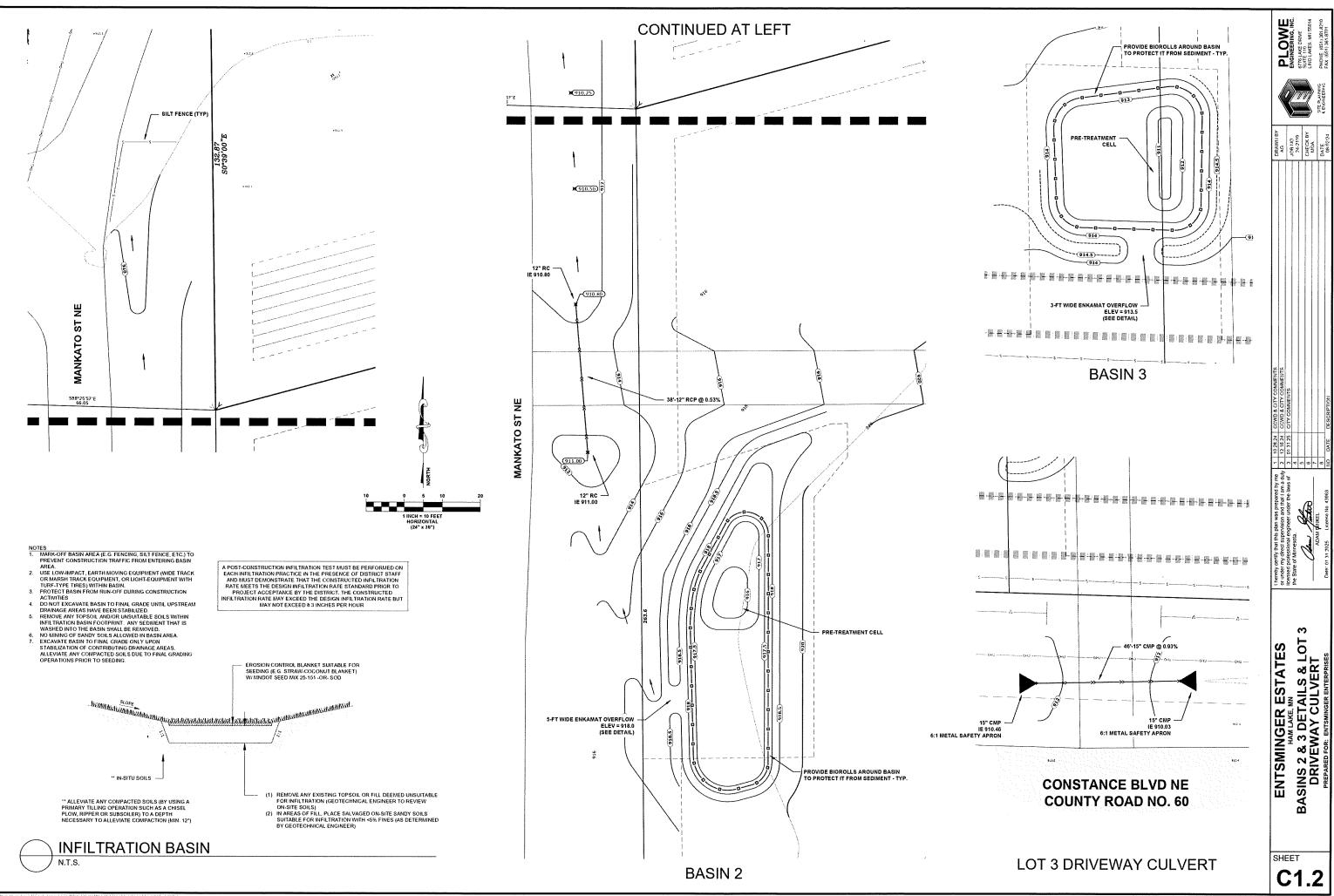
(BY TRADEWALL SOIL TESTING)

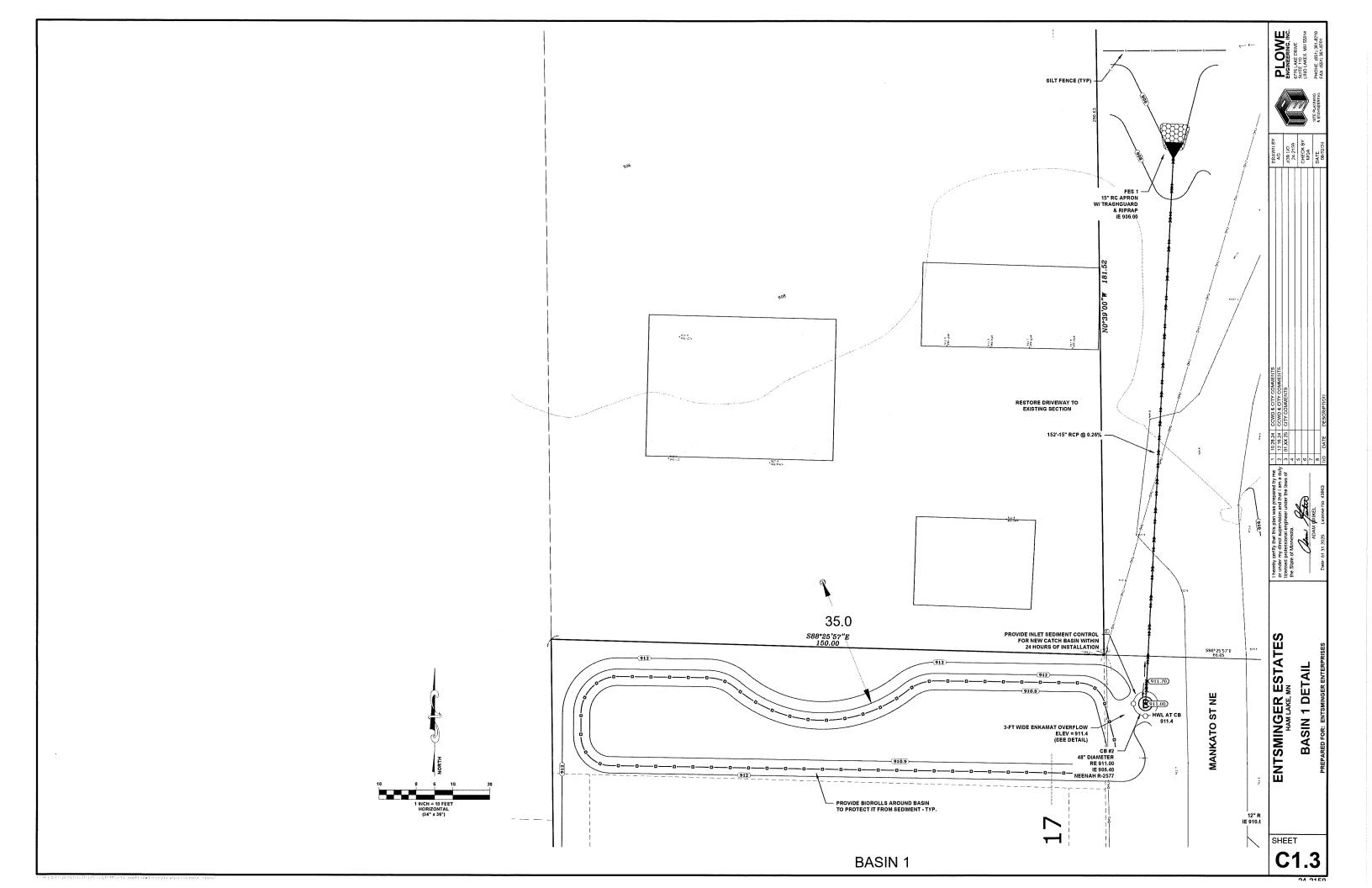
DENOTES ADJACENT PARCEL OWNER INFORMATION (PER ANOKA COUNTY TAX INFORMATION)

DESCRIPTION

NO. DATE







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

4.3 PERMITTEES MUST SUBMIT A NOT WITHIN 30 DAYS AFTER SELLING OR OTHERWISE LEGALLY TRANSFERRING THE ENTIRE SITE, NICLUDING PERMIT RESPONSIBILITY FOR ROADS (E.G., STREET SWEEPING) AND STORMWATER INFRASTRUCTURE FINAL CLEAN OUT, OR TRANSFERRING PORTIONS OF A SITE TO ANOTHER PARTY. THE PERMITTEES' COVERAGE UNDER THIS PERMIT TERMINATES AT MIDNIGHT ON THE SUBMISSION DATE OF THE HOT, [MINN. R. 7990]

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 AREA) OF ALL ORIGINALLY PROPOSED CONSTRUCTION ACTIVITY HAS BEEN COMPLETED AND PERMANENT COVER HAS BEEN ESTABLISHED ON THOSE AREAS: AND
- C. ON AREAS WHERE CONSTRUCTION ACTIVITY IS NOT COMPLETE, PERMANENT COVER HAS BEEN ESTABLISHED; AND D. THE SITE COMPLIES WITH ITEM 13.3 THROUGH 13.7

AFTER PERMIT COVERAGE IS TERMINATED UNDER THIS ITEM, ANY SUBSEQUENT DEVELOPMENT ON THE REMAINING PORTIONS OF THE SITE WILL REQUIRE PERMIT COVERAGE IF THE SUBSEQUENT DEVELOPMENT ITSELF OR AS PART OF THE REMAINING COMMON PLAN OF DEVELOPMENT OF SHE REMAINING COMMON PLAN OF DEVELOPMENT OR SHE WILL RESULT IN LAID DISTURBING ACTIVITIES OF ONE (1) OR MORE ACRES IN

4.5 PERMITTEES MAY TERMINATE COVERAGE UPON MPCA APPROVAL AFTER SUBMITTING INFORMATION DOCUMENTING THE OWNER CANCELED THE PROJECT. IMINN. R. 76901

#### 6.1 SWPPP AMENDMENTS, IMINN, R. 70901

6.2 ONE OF THE INDIVIDUALS DESCRIBED IN ITEM 21.2 A OR ITEM 21.2 B OR ANOTHER QUALIFIED INDIVIDUAL MUST COMPLETE ALL SWPPP CHANGES. CHANGES INDIVIDUAL MUST FACION DESCRIBING THE MUST INCLUDE A JUSTIFICATION DESCRIBING THE OWN THE REPLACEMENT BMP SEFECTIVE OF THE SITE CHARACTERISTICS, IMMIN R. 7099()

63 PERMITTEES MUST AMEND THE SWIPPP TO INCLUDE ADDITIONAL ON MODIFIED BMPB AS NECESSARY TO CORRECT PROBLEMS IDENTIFIED OR ADDRESS SITUATIONS WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION MAINTENANCE, WEATHER OR SEASONAL CONDITIONS HAVING A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTAINT TO SURFACE WATERS OR GROUNDWATER, IMINN. R. 7090)

TO SURFACE WATERS OR GROUNOWATER, IMMIN. R. 7090)

6.4 PERMITTEES MUST AMEND THE SWPPP TO INCLUDE ADDITIONAL OR MODIFIED BMPS AS NECESSARY TO CORRECT PROBLEMS IDENTIFIED OR ADDRESS SITUATIONS WHENEVER INSPECTIONS OR INVESTIGATIONS BY THE SITE OWNER OR OPERATOR, USEPA OR MPCA OFFICIALS INDICATE THE SWPPP IS NOT EFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MONIMAZING THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS OR GROUNDWATER OR THE DISCHARGE ARE CAUSING WATER OR GROUNDWATER OR THE DISCHARGE ARE CAUSING WATER OWNER OF THIS DISCHARGE ARE CAUSING WATER OWNER OF THIS DISCHARGE AND CAUSING WATER OWNER OF THIS DISCHARGE AND CAUSING WATER OR GROUNDWATER OR THE DISCHARGE AND CAUSING WATER OWNER OF THIS DISCHARGE AND CAUSING WATER OWNER OF THIS DISCHARGE OWNER OF THE DISCHARGE AND CAUSING WATER OWNER OF THIS DISCHARGE OWNER OF THE DISCHARGE OWNER OWNER

7.2 PERMITTEES MUST SELECT, INSTALL, AND MAINTAIN THE BMPS IDENTIFIED BY THE SWPPP AND IN THIS PERMIT IN AN APPROPRIATE AND FUNCTIONAL MANNER AND IN ACCORDANCE WITH RELEVANT MANUFACTURER SPECIFICATIONS AND ACCEPTED REQUIRED FOR ACCIDED, MINN, R. 7090]

8.1 EROSION PREVENTION PRACTICES (MINN. R. 7090)
8.2 BEFORE WORK BEGINS, PERMITTEES MUST DELINEATE THE LOCATION OF AREAS NOT TO BE DISTURBED. [MINN. R. 7090] 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., SLOPE DRAWING AND TERRACING), [MININ. R. 7809]

8.4 PERMITTEES MUST STABILIZE ALL EXPOSED SOIL AREAS, INCLUDING STOCKPILES. STABILIZATION MUST BE INITIATED MMEDIATELY TO LIMIT SOIL EROSION WHEN CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CASED ON ANY PORTION OF THE SITE AND WILL HOT RESUME FOR A PERMO EXCEEDING 1 CALENDAR DAYS. STABILIZATION MUST BE COMPLETED NO LATER THAN 14 CALENDAR DAYS AFTER THE CONSTRUCTION ACTIVITY HAS CEASED. STABILIZATION IS NOT REQUIRED ON CONSTRUCTED BASE COMPONENTS OF ROADS, PARKING LOTS AND SIMILAR SURFACES. TABILIZATION IS NOT REQUIRED ON EQUAL OF THE BASE COMPONENTS OF ROBUS, FARMING DUS AND SIMILAR SURFACES, STABILIZATION REQUIRED ON EXPROVED THE RESPONDENT OF THE STABILIZATION OF REAL OF THE STABILIZATION OF THE STABIL

8.5 FOR PUBLIC WATERS THAT THE MINNESOTA DUR HAS PROMULGATED "WORK IN WATER RESTRICTIONS" DURING SPECIFIED FIGH SPAWHING ITME FRAMES, FERMITTES MUST COMPLETE STABILZATION OF ALL EXPOSED SOIL, AREAS WITHIN 200 FEET OF THE WATER'S EDGE, AND THAT DRAIN TO THESE WATERS, WITHIN 24 HOURS DURING THE RESTRICTION PERIOD. [MINN. R. 7090]

[MININ. K. 7090]
S. 6 PERMITTEES MUST STABILIZE THE NORMAL WETTED PERIMETER OF THE LAST 200 LINEAR FEET OF TEMPORARY OR PERMANIENT DRAINAGE DITCHES OR SWALES THAT DRAIN WATER FROM THE SITE WITHIN 24 HOURS AFTER CONNECTING TO SURFACE WATER OR PROPERTY EDGE. PERMITTEES MUST COMPLETE STABILIZATION OF REMAINING PORTIONS OF TEMPORARY OR PERMANENT DITCHES OR SWALES WITHIN 14 CALEIDAR DAYS AFTER CONNECTING TO A SURFACE WATER OR PROPERTY EDGE AND CONSTRUCTION IN THAT FORTION OF THE OTHER THEMPORARILY OR PERMANENTLY CEASES, MININ.

8.7 TEMPORARY OR PERMANENT DITCHES OR SWALES BEING USED AS A SEDIMENT CONTAINMENT SYSTEM DURING CONSTRUCTION (WITH PROPERLY DESIGNED ROCK-DITCH CHECKS, BIO ROLLS, SILT DIKES, ETC.) DO NOT NEED TO BE STABILIZED. PERMITTEES MUST STABILIZE THESE AREAS WITHIN 24 HOURS AFTER THEIR USE AS A SEDIMENT CONTAINM SYSTEM CEASES, MINIM, B. 70001

8.8 PERMITTES MUSTIC ANY PORTION OF THE NORMAL WETTER PERMITTES MUST ANY PORTION PREVENTION PRACTICES WITHIN ANY PORTION OF THE NORMAL WETTER PERMITTES MUST ANY PORTION OF THE NORMAL WETTER PERMITTES ANY PORTION OF THE NORMAL WETTER PERMITTED ANY PORTION OF THE NORMAL WETTER PERMITTED ANY PORTION OF THE NORMAL WETTER THAN 2 PERCENT, [MININ, R, 799]

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. 7.090)

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]

29 PERMITTEES MUST ESTABLISH SEDMENT CONTROL BMPS ON ALL DOWNGRADIENT PERIMETERS OF THE SITE AND DOWNGRADIENT PAREAS OF THE SITE HAT DRAIN 170 ANY SUFFACE WATER, INCLUDING CURB ADIA GUTTER SYSTEM PERMITTEES MUST LOCATE SEDMENT CONTROL PROFILES OF SUFFACE WATER, INCLUDING CURB ADIA GUTTER SYSTEM SUFFACE SEDMENT CONTROL PROFILES MUST HAVE SUFFACE SUFFACE SUFFACE SUFFACE WITH THE SEDMENT CONTROL PRACTICES BEFORE ANY UPGRADIENT LAND-DISTURBING ACTIVITIES BEGIN AND MUST K THE SEDMENT CONTROL PRACTICES IN PLACE UNITL THEY SETABLESH PERMINENT COVER, (MINN. R. 780).

9.3 F DOWNGRADIENT SEDIMENT CONTROLS ARE OVERLOADED, BASED ON FREQUENT FAILURE OR EXCESSI MAINTENANCE REQUIREMENTS, PERMITTEES MUST INSTALL ADDITIONAL UPGRADIENT SEDIMENT CONTROL P MAINTERANCE REQUIREMENTS, PERMITTES MUST INSTALL ADDITIONAL UPGRADIENT SEUIMENT CONTROL PRACTICES OR REQUIRDANT BMPS TO ELIMINATE THE OVERLOADING AND AMEND THE SWPPP TO IDENTIFY THESE ADDITIONAL PRACTICES AS

9.4 TEMPORARY OR PERMANENT DRAINAGE DITCHES AND SEDIMENT BASINS DESIGNED AS PART OF A SEDIMENT CONTRIBUENT SYSTEM (E.G., DITCHES WITH ROCK-CHECK DAMS) REQUIRE SEDIMENT CONTROL PRACTICES ONLY AS APPROPRIATE FOR SITE CONDITIONS, (MININ, R. 7969)

95.6 A FLOATING SILT CURTAIN PLACED IN THE WATER IS NOT A SEDIMENT CONTROL BMP TO SATISFY ITEM 9.2 EXCEPT WHEN WORKING ON A SHORELNE OR BELOW THE WATER LINE. IMMEDIATELY AFTER THE SHORT TERM CONSTRUCTION ACTIVITY (E.G., INSTALLATION OF RIP RAP AL ONO, THE SHORELINE) BY THAT AREA IS COMPLETE, PERMITTEES MUST INSTALL AN UPLAND PERMIETER CONTROL PRACTICE IF EXPOSED SOILS STILL DRAIN TO A SURFACE WATER. (MININ. R. 7890)

9.6 PERMITTEES MUST RE-INSTALL ALL SEDIMENT CONTROL PRACTICES ADJUSTED OR REMOVED TO ACCOMM SHORT-TERM ACTIVITY IS COMPLETED. PERMITTEES MUST RE-INSTALL SEDIMENT CONTROL PRACTICES BEFORE THE NEXT PRECIPITATION EVENT EVEN IF THE SHORT-TERM ACTIVITY IS NOT COMPLETE. [MINN. R. 7090]

9.7 PERMITTEES MUST PROTECT ALL STORM DRAIN INLETS USING APPROPRIATE BMPS DURING CONSTRUCTION UNTIL THEY ESTABLISH PERMANENT COVER ON ALL AREAS WITH POTENTIAL FOR DISCHARGING TO THE INLET. (MINN. R. 7090) 9.8 PERMITTEES MAY REMOVE INLET PROTECTION FOR A PARTICULAR INLET IF A SPECIFIC SAFETY CONCERN (E.G., STREET FLOODING#REEZING) IS IDENTIFIED BY THE PERMITTEES OR THE JURISDICTIONAL AUTHORITY (E.G., CITY/COUNTY/TOWNSHIP/MINNESOTA DEPARTMENT OF TRANSPORTATION ENGINEER) PERMITTEES MUST DOCUMENT THE NEED FOR REMOVAL IN THE SWPPP. (MINN. R. 7090)

9.9 PERMITTEES MUST PROVIDE SILT FENCE OR OTHER EFFECTIVE SEDIMENT CONTROLS AT THE BASE OF STOCKPILES ON

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. (MININ, R, 7090)

9.12 PERMITTEES MUST USE STREET SWEEPING IF VEHICLE TRACKING BMPS ARE NOT ADEQUATE TO PREVENT SEDIMENT

9.13 PERMITTEES MUST INSTALL TEMPORARY SEDMENT BASINS AS REQUIRED IN SECTION 14, IMINN. R. 70901 9.14 IN ANY AREAS OF THE SITE WHERE FINAL VEGETATIVE STABILIZATION WILL OCCUR, PERMITTEES MUST RESTRICT

9.15 PERMITTEES MUST PRESERVE TOPSOIL ON THE SITE, UNLESS INFEASIBLE, IMINN, R. 70901

9.16 PERMITTEES MUST DIRECT DISCHARGES FROM BMPS TO VEGETATED AREAS UNLESS INFEASIBLE. [MINN. R. 7090] 9.19 FERMIT HEES MUST DIRECT DISCHARGES FROM BMPS TO VOGETATED AREAS UNLESS INFEASIBLE, MINN. R. 7090)
9.17 PERMITTEES MUST PRESERVE A 50 FOOT NATURAL BUFFER OR, IF, A BUFFER IS INFEASIBLE ON THE SITE, PROVIDE REDUNDANT (DOUBLE) PERIMETER SEDIMENT CONTROLS WHEN A SURFACE WATER IS LOCATED WITHIN 50 FEET OF THE PROJECT'S EARTH DISTURBANCES AND STORMWATER IS LOWS TO THE SURFACE WATER PERMITTEES MUST INSTALL PERMETER SEDIMENT CONTROLS AT LEAST 6 FEET APAST UNLESS LIMITED BY LACK OF AVAILABLE SPACE. NATURAL BUFFERS ARE NOT REQUIRED ADJACENT TO ROAD DITCHES, UDICALD LITCHES, COUNTY DITCHES, STORM ORWAYTER CONVEYANCE CHANNELS, STORM ORANI INLETS, AND SEDIMENT BASINS. IF PRESERVING THE BUFFER IS INFEASIBLE, PERMITTEES MUST DOCUMENT THE REASONS BITHE SWPPP. SHEET PILINIG IS A REDUITORNT PERIMETER CONTROL IF INSTALLED IN A MANNER THAT RETAINS ALL STORMWATER. [MINN. R. 7090]

INSTALLED IN A MANINEN THAT RETAINS ALL STOKMWATER, (MINN, R. 1999).

9) IS PERMITTEES MUST USE POLYMERS, FLOCULIAINS, OR OTHER SEDIMENTATION TREATMENT CHEMICALS IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICES, DOSING SPECIFICATIONS AND SEDIMENT REMOVAL DE SPECIFICATIONS PROVIDED BY THE MANUFACTURER OR SUPPLIER. THE PREMITTEES MUST USE CONVENTIONAL AND SEDIMENT CONTROLS PRIOR TO CHEMICAL ADDITION AND MUST DIRECT TREATED STORMWATER TO A SEDIM CONTROLS PART AND ADDITIONAL STORMWATER TO A SEDIMENT CONTROLS PRIOR TO CHEMICAL ADDITION AND MUST DIRECT TREATED STORMWATER TO A SEDIMENT CONTROLS PRIOR TO CHEMICAL ADDITION AND MUST DIRECT TREATED STORMWATER TO A SEDIMENT CONTROLS PRIOR TO CHEMICAL ADDITION AND MUST DIRECT TREATED STORMWATER TO A SEDIMENT CONTROLS PRIOR TO DISCHARGE (MINN)R. TOWARD ADDITIONAL PRIOR TOWARD ADDIT

#### 10.1 DEWATERING AND BASIN DRAINING. (MINN. R. 7090)

10.2 PERMITTEES MUST DISCHARGE TURBID OR SEDIMENT-LADEN WATERS RELATED TO DEWATERING OR BASIN DRAINING (E.G., PUMPED DISCHARGES, TRENCKIDITCH CUTS FOR DRAINAGE) TO A TEMPORARY OR PERMANENT SEDIMENT BASIN ON THE PROJECT SITE UNLESS INFEASIBLE. PERMITTEES MAY DEWATER TO SURFACE WATERS IF THEY VIZLLY CHCK TO CHISTIC STRENCKING THE PROJECT SITE OF MENUALE I ITEM I MAS BEET UD I MIND AKU KUISANGE CUNUITIONS (SEE MINIK IR. 1980,0210, SUBP. 2. LI FROM THE DISCHARGE. IF PERMITTEES CANNOT DISCHARGE THE WATER TO A SEDIMENTATION BASINI A SURRACE WATER, PERMITTEES MUST TREAT IT WITH APPROPRIATE BMPS SUCH THAT THE DISCHARGE LY AFFECT THE SURFACE WATER OR DOWNSTREAM PROPERTIES. [MINIK IR. 7650 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) 10.4 PERMITTEES MUST DISCHARGE ALL WATER FROM DEWATERING OR BASIN DRAINING ACTIVITIES IN A MANNER THAT DOES OT CAUSE EROSION OR SCOUR IN THE IMMEDIATE VICINITY OF DISCHARGE POINTS OR INUNDATION OF WETLANDS IN THE IMEDIATE VICINITY OF DISCHARGE POINTS THAT CAUSES SIGNIFICANT ADVERSE IMPACT TO THE WETLAND. [MINN. R. 7090] 10.5 IF PERMITTEES USE FILTERS WITH BACKWASH WATER, THEY MUST HAUL THE BACKWASH WATER AWAY FOR DISPOSAL, RETURN THE BACKWASH WATER TO THE BEGINNING OF THE TREATMENT PROCESS, OR INCORPORATE THE BACKWASH WATER INTO THE SITE IN A MANIRET THAT DOES NOT CAUSE EROSION, (MINN R. 7090)

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

11.2 PERMITTEES MUST ENSURE A TRAINED PERSON, AS IDENTIFIED IN ITEM 21.2 B, WILL INSPECT THE ENTIRE CONSTRUCTION SITE AT LEAST ONCE EVERY SEVEN (7) DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 1/2 INCH IN 24 HOURS. (MINN. R. 7090)

11.3 PERMITTEES MUST INSPECT AND MAINTAIN AU PERMANENT STORMWATER TREATMENT BMPS IMINN. R. 70901 11.4 PERMITTEES MUST INSPECT ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPS AND POLLUTION PREVENTION MANAGEMENT MEASURES TO ENSURE INTEGRITY AND EFFECTIVENESS, PERMITTEES MUST REPAIR, REPLACE OR SUPPLEMENT ALL NONFUNCTIONAL BMPS WITH FUNCTIONAL BMPS BY THE END OF THE NEXT BUSINESS DAY AFFER DISCOVERY UNLESS ANOTHER TIME FRAME IS SPECIFIED IN TIEM 11.5 OR 11.6 PERMITTEES MAY TAKE ADDITIONAL TIME IF FIELD CONDITIONS PREVENT ACCESS TO THE AREA. [MINN. R. 7090

THE UNIVERSITY OF THE WATER ACCESS TO THE AREA, (MINN R. 7090)

1.5 DURNG EACH INSPECTION, PERMITTEES MUST INSPECT SURFACE WATERS, INCLUDING DRAINAGE DITCHES AND CONVEYANCE SYSTEMS BUT HOT CURB AND GUTTER SYSTEMS, FOR EVIDENCE OF EROSION AID SEDMENT DEPOSITION BY SURFACE WATERS, INCLUDING DRAINAGE WAYS, CATCH BASINS, AND OTHER DRAINAGE SYSTEMS AND RESTABILIZE THE AREAS WHERE SEDIMENT REMOVAL RESULTS IN EXPOSED SOIL, PERMITTEES MUST COMPLETE REMOVAL AND STABILIZATION WITHIN SEVEN IT, CALENDAR DAYS OF DISCOVERY UNILESS PRECLUDED BY LEGAL, REGULATORY, OR PHYSICAL ACCESS CONSTRAINTS PERMITTEES MUST USE REASONABLE FERORIS CONSTRAINTS PERMITTEES MUST USE REASONABLE FERORIS CONSTRAINTS PERMITTEES MUST USE REASONABLE REPORTS OF DEPARTMENT OF BEHAVIOR. BLE EFFORTS TO OBTAIN ACCESS IF PRECLUDED, REMOVAL AND STABILIZATION MUST TAKE PLACE WI Frankining access, Permittees are responsible for Contacting All Local, Regional, Stat Authornies and receiving any applicable permits, prior to conducting any work in Surfa

(MINIA: A 1994)

11.6 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 PAVED SURFACES WITHIN ONE (I) CALLENDAR DAY OF DISCOVERY OR, IF APPLICABLE, WITHIN A SHORTER TIME TO AVOID A SAFETY HAZARD TO USERS OF PUBLIC STREETS, (MINIA, R. 7950)

11.7 PERMITTEES MUST REPAIR, REPLACE OR SUPPLEMENT ALL PERIMETER CONTROL DEVICES WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES 1/2 OF THE MEIGHT OF THE DEVICE, MINN, R. 70901 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. IMINIA. R. 70901

11.10 PERMITTEES MAY ADJUST THE INSPECTION SCHEDULE DESCRIBED BY 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 UNTIL CONSTRUCTION ACTIVITY RESUMES. THE MPCA MAY REQUIRE INSPECTIONS TO RESUME IF CONDITIONS WARRANT; OR

E. CONDITION WARRENT, ON

C. WHERE CONSTRUCTION ACTIVITY HAS BEEN SUSPENDED DUE TO FROZEN GROUND CONDITIONS, INSPECTIONS MAY BE SUSPENDED. INSPECTIONS MUST RESUME WITHIN 24 HOURS OF RUNOFF OCCURRING, OR UPON RESUMING CONSTRUCTION, WHICHEVER COMES FIRST, IMMIN. R. 7989]

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
- C. ACCURATE FINDINGS OF INSPECTIONS, INCLUDING THE SPECIFIC LOCATION WHERE CORRECTIVE ACTIONS ARE NEEDED.
- D. CORRECTIVE ACTIONS TAKEN (INCLUDING DATES, TIMES, AND PARTY COMPLETING MAINTENANCE ACTIVITIES); AND E. DATE OF ALL RAINFALL EVENTS GREATER THAN 1/2 INCHES IN 24 HOURS, AND THE AMOUNT OF RAINFALL FOR EACH EVENT. PERMITTEES MUST OBTAIN RAINFALL AMOUNTS BY EITHER A PROPERLY MAINTAINED RAIN GAUGE INSTALLED ONSITE, A WEATHER STATION THAT IS WITHIN ONE (1) MILE OF YOUR LOCATION, OR A WEATHER REPORTING SYSTEM THAT PROVIDES SITE SPECIFIC RAINFALL DATA FROM RADAR SUMMARIES; AND
- F. IF PERMITTEES OBSERVE A DISCHARGE QUINING THE INSPECTION, THEY MUST RECORD AND SHOULD PHOTOGRAPH AND DESCRIBE THE LOCATION OF THE DISCHARGE (I.E., COLOR, ODOR, SETTLED OR SUSPENDED SOLIDS, OIL SHEEN, AND OTHER OSWOUS INDICATORS OF POLLUTIANTS); 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 PERMITTEES MUST PLACE BUILDING PRODUCTS AND LANDSCAPE MATERIALS UNDER COVER (E.G., PLASTIC SHEETING OR TEMPORARY ROOFS) OR PROTECT THEM BY SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WITH STORMWATER PERMITTEES ARE NOT REQUIRED TO COVER OR PROTECT PRODUCTS WHICH ARE EITHER 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 CON WITH STORMWATER (IMIN. R. 7090)

THIN STORMWATER, [MINN, R. 7090]

12.4 PERMITTEES MUST STORE HAZARDOUS MATERIALS AND TOXIC WASTE, (INCLUDING OIL, DIESEL FUEL, GASOLINE, HYDRAULG FUUDS, PAINT SOLVENTS, PETROLEUM-BASED PRODUCTS, WOOD PRESERVATIVES, ADDITVES, CURING COMPOUNDS, AND ACIDS) IN SEALED CONTAINERS TO PREVENT SPILLS, LEAKS OR OTHER DISCHARGE. STORAGE AND DISPOSAL OF HAZARDOUS WASTE MATERIALS MUST BE IN COMPLIANCE WITH MINN. R. CH. 7045 INCLUDING SECONDARY CONTAINMENT AS APPLICABLE. (MINN. R. 7090)

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 TIP OR BE KNOCKED OVER. PERMITTEES MUST PROPERLY DISPOSE SANITARY WASTE IN ACCORDANCE WITH MINN. R. CH. 7041. [MINN. R. 7041]

12.7 PERMITTEES MUST TAKE REASONABLE STEPS TO PREVENT THE DISCHARGE OF SPILLED OR LEAKED CHEMICALS, INCLUDING FUEL, FROM ANY AREA WHERE CHEMICALS OR FUEL WILL BE LOADED OR UNLOADED INCLUDING THE USE OF DRIF PAINS OR ABSORBENTS UNLESS INFEASIBLE. PERMITTEES MUST ENSURE DADOUATE SUPPLIES ARE AVAILABLE AT ALL TIMES TO CLEAN UP DISCHARGED MATERIALS AND THAT AM APPROPRIATE DISPOSAL METHOD IS AVAILABLE FOR RECOVERED SPILLED MATERIALS PERMITTEES MUST REPORT AND CLEAN UP SPILLS IMMEDIATELY AS REQUIRED BY MINH. STAT. 116.061, USING DRY CLEAN UP MEASURES WHERE POSSIBLE, (MINN. STAT. 116.061)

USING DAY CLEAN OF MEASURES WITCHE EXPERIOR WASHING AND EQUIPMENT TO A DEFINED AREA OF THE SITE. PERMITTEES
MUST CONTAIN RUNOFF FROM THE WASHING AREA IN A SEDIMENT BASIN OR THE STEED RECTIVE CONTROL AND
MUST DISPOSE WASTE FROM THE WASHING AREA IN A SEDIMENT BASIN OR THESE MUST PROPERTY USE AND STORE SOAPS.

DELIENCENTIS, OR SOLVENTS. (MINN. R. 7090)

129 PERMITTEES MUST PROVIDE EFFECTIVE CONTAINMENT FOR ALL LIQUID AND SOLID WASTES GENERATED BY WASHOUT OPERATIONS (E.G., CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURRIG GOMPOUNDS AND OTHER CONSTRUCTION MATERIALS) RELATED TO THE CONSTRUCTION ACTIVITY. PERMITTEES MUST PREVENT IDJUID AND SOLID WASHOUT WASTES FROM CONTACTING THE GROUND AND MUST DESIGN THE CONTAINMENT SO IT DOES NOT RESULT IN RUNOFF FROM THE WASHOUT OPERATIONS OR AREAS, PERMITTEES MUST PROPERLY IDSOSE LIQUID AND SOLID WASTES IN COMPLIANCE WITH MPCA RULES, PERMITTEES MUST INSTALL A SIGN INDICATING THE LOCATION OF THE WASHOUT FACILITY. (MINN. R. 7035, MINN. R. 7095)

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

13.2 PERMITTEES MUST COMPLETE ALL CONSTRUCTION ACTIVITY AND MUST INSTALL PERMANENT COVER OVER ALL AREAS PRIOR TO SUBMITTING THE MOT. VEGETATIVE COVER MUST CONSIST OF A UNFORM PERENNIAL VEGETATION WITH A DEHSITY OF 70 PERCENT OF ITS EXPECTED FINAL GROWTH. VEGETATION IS NOT REQUIRED WHERE THE FUNCTION A SPECIFIC AREA DICTATES NO VEGETATION, SUCH AS IMPERIVIOUS SUBFACES OR THE BASE OF A SAND FILTER, [MININ, R. 7696]

13.3 PERMITTEES MUST CLEAN THE PERMANENT STORMVATER 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. 7090

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. 7690] 13.6 FOR RESIDENTIAL CONSTRUCTION ONLY, PERMIT COVERAGE TERMINATES ON INDIVIDUAL LOTS IF THE STRUCTURES ARE FINISHED AND TEMPORARY EROSION PREVENTION AND DOWNGRADIENT PERIMETER CONTROL IS COMPLETE. THE RESIDENCE SELLS TO THE H R, AND THE PERMITTEE DISTRIBUTES THE MPCA'S "HOMEOWNER FACT SHEET" TO T

13.7 FOR CONSTRUCTION PROJECTS ON AGRICULTURAL LAND (E.G., PIPELINES ACROSS CROPLAND), PERMITTEES MUST RETURN THE DISTURBED LAND TO ITS PRECONSTRUCTION AGRICULTURAL USE PRIOR TO SUBMITTING THE HOT. MINN. R

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

14.2 WHERE TEN (19) OR MORE ACRES OF DISTURRED SOIL DRAIN TO A COMMON LOCATION, PERMITTEES MUST PRO TEMPORARY SEDIMENT BASIN TO PROVIDE TREATMENT OF THE RUNOFF BEFORE IT LEAVES THE CONSTRUCTION ST ENTERS SURFACE WATERS, PERMITTEES MAY CONVERT A TEMPORARY SEDIMENT BASIN TO A PERMAINENT BASIN A ONSTRUCTION IS COMPLETE. THE TEMPORARY BASIN IS NO LONGER REQUIRED WHEN PERMANENT C (HE ACREAGE OF DISTURBED SOIL TO LESS THAN TEN (10) ACRES DRAINING TO A COMMON LOCATION 14.3 THE TEMPORARY BASIN MUST PROVIDE LIVE STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A TWO (2)-YEAR

14.4 WHERE PERMITTEES HAVE NOT CALCULATED THE TWO (2)-YEAR, 24-HOUR STORM RUNOFF AMOUNT, THE TEMPORARY BASIN MUST PROVIDE 3.600 CUBIC FEET OF LIVE STORAGE PER ACRE OF THE BASINS' DRAINAGE AREA. IMINN. R. 70901 14.6 PERMITTEES MUST DESIGN BASIN OUTLETS TO PREVENT SHORT-CIRCUITING AND THE DISCHARGE OF FLOATING DEBRIS

INTERPRETABLE SHARE THE OUTLET STRUCTURE TO WITHDRAW WATER FROM THE SURFACE TO MINIMIZE THE DISCHARGE OF POLLUTANTS. PERMITTEES MAY TEMPORARILY SUSPEND THE USE OF A SURFACE WITHDRAWAL MECHANI DURING FROZEN CONDITIONS. THE BASIN MUST INCLUDE A STABILIZED EMERGENCY OVERFLOW TO PREVENT FAILURE OF POND INTEGRITY. [MINN. R. 7090]

14.7 PERMITTEES MUST PROVIDE ENERGY DISSIPATION FOR THE BASIN OUTLET WITHIN 24 HOURS AFTER CONNECTION TO A SURFACE WATER, [MINN. R. 7090]

14.8 PERMITTEES MUST LOCATE TEMPORARY BASINS OUTSIDE OF SURFACE WATERS AND ANY BUFFER ZONE REQUIRED IN ITEM 23.11, MINN. R. 7989] 14 9 PERMITTEES MUST CONSTRUCT THE TEMPORARY BASINS PRIOR TO DISTURBING 10 OR MORE ACRES OF SOIL DRAINING TO A COMMON LOCATION, IMINN. R. 7090)

I O A COMMON LOCATION. [MINN. R. 7090]
4.10 WHERE A TEMPORARY SEDIMENT BASIN MEETING THE REQUIREMENTS OF ITEM 14.3 THROUGH 44.6 IS INFEASIBLE.
PERMITTEES MUST INSTALL EFFECTIVE SEDIMENT CONTROLS SUCH AS SMALLER SEDIMENT BASINS ANDOR SEDIMENT
TRAPS, SILT FENCES, VEGETATIVE BUFFER STRUE 90.6 AN INFORMATE COMBINATION FOR SEDIMENT
TRAPS, SILT FENCES, VEGETATIVE BUFFER STRUE 90.6 AN INFORMATE COMBINATION BASINS ANDOR SEDIMENT
TRAPS, SILT FENCES, VEGETATIVE BUFFER STRUE 90.6 AN INFORMATION BOST BASINS AND SEDIMENT BASINS IS HEADISE. SEDIMENTEES MUST
CONSIDER PUBLIC SAFETY AND MAY CONSIDER FACTORS SUCH AS SITE SOILS, SLOPE, AND AVAILABLE AREA ON-SITE.
PERMITTEES MUST DOCUMENT THIS DETERMINATION OF INFEASIBLITY IN THE SWPPP. [MINN. R. 7090]

#### 15.1 PERMANENT STORMWATER TREATMENT SYSTEM. [MINN. R. 7090]

16.2 PERMITTEES MUST DESIGN THE PROJECT SO ALL STORMWATER DISCHARGED FROM THE PROJECT DURING AND AFTER CONSTRUCTION ACTIVITIES DOES NOT CAUSE A VIOLATION OF STATE WATER QUALITY STANDARDS, INCLUDING NUISANCE CONDITIONS, EROSION IN RECEIVING CHANNELS OR ON DOWNISLOPE PROPERTIES, OR A SIGNIFICANT ADVERSE IMPACT TO WETLANDS CAUSED BY INUIDATION OR DECREASE OF FLOW, [MINN. R 7890]

TELEANDS GOODED IN HUMANION ON SECRET OF TOO IN JUNEAR 1994

15.3 PERMITTEES MUST DESIGN AND CONSTRUCT A PERMANENT STORMWATER TREATMENT SYSTEM TO TREAT THE WATER QUALITY VOLUME IT THE PROJECTS ULTIMATE DEVELOPMENT REPLACES VEGETATION AND/OR OTHER PERVIOUS SURFACE: CREATING A NET INCREASE OF ONE (1) OR MORE ACRES OF COMULATIVE IMPERVIOUS SURFACE. [MINN R. 790] 15.4 PERMITTEES MUST CALCULATE THE WATER QUALITY VOLUME AS ONE (1) INCH TIMES THE NET INCREASE OF IMPERVIOUS

15.5 PERMITTEES MUST FIRST CONSIDER VOLUME REDUCTION PRACTICES ON-SITE (E.G., INFILTRATION OR OTHER) WHEN DESIGNING THE PERMANENT STORMWATER TREATMENT SYSTEM, IF THIS PERMIT PROHIBITS INFILTRATION AS DESCRIBED IN ITEM 15.14 THROUGH TIEM 16.21 PERMITTEES MAY CONSIDER A WET SEDIMENTATION BASIN, FILTRATION BASIN OR REGIONAL POND. THIS PERMIT DOES NOT CONSIDER WET SEDIMENTATION BASIN, FILTRATION BASIN OR REGIONAL POND. THIS PERMIT DOES NOT CONSIDER WET SEDIMENTATION BASIN OR SYSTEMS TO BE VOLUME REDUCTION BASIN OR THE PROMISE OF THE PROMISE OF

16.6 FOR PROJECTS WHERE THE FULL VOLUME REDUCTION REQUIREMENT CANNOT BE MET ON-SITE, (E.G., THE SITE HAS INFILTRATION PROHIBITIONS), PERMITTEES MUST DOCUMENT THE REASONS IN THE SWPPP. [MINN. R. 7090]

INTITION FROM THE SWIPP, [MINI. R. 7990]

16.7 PERMITTEES MUST DISCHARGE THE WATER QUALITY VOLUME TO A PERMANENT STORMWATER TREATMENT SYSTEM PRIOR TO DISCHARGE TO A SURFACE WATER. FOR PURPOSES OF THIS ITEM, SURFACE WATERS DO NOT INCLUDE MAN-MAC DRAINAGE SYSTEMS THAT CONVEY STORMWATER TO A PERMANENT STORMWATER TREATMENT SYSTEM. [MINI. R. 7090]

15.8 WHERE THE PROXIMITY TO BEDROCK PRECLUDES THE INSTALLATION OF ANY OF THE PERMANENT STORMWATER TREATMENT PRACTICES REQUIRED BY SECTIONS 15 THROUGH 19. PERMITTEES MUST INSTALL OTHER TREATMENT SUCH AS GRASSED SWALES, SMALLER PONDS, OR GRIT CHAMBERS, PRIOR TO THE DISCHARGE OF STORMWATER TO SURFACE WATERS, [MINI. R. 7090]

WALERS, IMMIN. N. 1999)

16. SPOR LIBERA PROJECTS WHERE PERMITTEES CANNOT TREAT THE ENTIRE WATER QUALITY VOLUME WITHIN THE EXISTING RIGHT-OF-WAY, PERMITTEES MUST MAKE A REASONABLE ATTEMPT TO OBTAIN ADDITIONAL RIGHT-OF-WAY, EASEMENT OR OTHER PERMISSION FOR STORMWATER TREATMENT DURING THE PROJECT PLANNING PROCESS. DOCUMENTATION OF THESE ATTEMPTS MUST BE IN THE SWYPP. PERMITTEES MUST STILL CONSIDER VOLUME REDUCTION PRACTICES FIRST AS DESCRIBED IN ITEM 15.6. IF PERMITTEES CANNOT OBTAIN ADDITIONAL RIGHT-OF-WAY, EASEMENT OR OTHE THEY MUST MAXIMIZE THE TREATMENT OF THE WATER QUALITY VOLUME PRIOR TO DISCHARGE TO SURFA

#### 16.1 INFILTRATION SYSTEMS, IMINN, R. 70901

16.2. INFILITATION OPTIONS INCLUDE, BUT ARE NOT LIMITED TO: INFILITATION BASINS, INFILITATION TRENCHES, RAINWATER GARDENS, BIORETEMTION AREAS WITHOUT UNDERDRAINS, SWALES WITH IMPERMEABLE CHECK DAMS, AND NATURAL DEPRESSIONS. IF PERMITTEES UTILIZE AN INFILITATION SYSTEM TO MEET THE REQUIREMENTS OF THIS PERMIT, HEY MUST INCORPORATE THE DESIGN PARAMETERS IN ITEM 16.3 THOOLOGY THE ANALYTICS MUST FOLLOW THE INFILITATION PROHIBITION IN ITEM 16.1 ANYTIME AN INFILITATION SYSTEM IS DESIGNED, INCLUDING THOSE NOT REQUIRED BY THIS PERMIT, IMBN. R. 7990)

16.3 PERMITTEES MUST DESIGN INFILTRATION SYSTEMS SUCH THAT PRE-EXISTING HYDROLOGIC CONDITIONS OF WETLANDS IN THE VICINITY ARE NOT IMPACTED (E.G., INUNDATION OR BREACHING A PERCHED WATER TABLE SUPPORTING A WETLAND)

IGHTH. R. 7090]

164 PERMITTEES MUST NOT EXCAVATE INFILTRATION SYSTEMS TO FINAL GRADE, OR WITHIN THREE (3) FEET OF FINAL GRADE, UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN CONSTRUCTED AND FULLY STABILIZED UNLESS THEY PROVIDE RIGOROUS EROSION PREVENTION AND SEDMENT CONTROLS (E.G., DIVERSION BERMS) TO KEEP SEDIMENT AND RUNOFF COMPLETELY AWAY FROM THE INFILTRATION AREA, MININ. R. 7090]

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

ANEA. (MINNI. N. 1981)
16 S PERMITTES MUST USE A PRETREATMENT DEVICE SUCH AS A VEGETATED FILTER STRIP, FOREBAY, OR WATER QUALITY
18LET (E.G., GRIT CHAMBER) TO REMOVE SOLIDS, FLOATING MATERIALS, AND OIL AND GREASE FROM THE RUNDEF, TO THE
MAXIMUM EXTENT PRACTICABLE, BEFORE THE SYSTEM ROUTES STORMWATER TO THE INFILTRATION SYSTEM, MINN. R. 7809) 16.7 PERMITTEES MUST DESIGN INFILITATION SYSTEMS TO PROVIDE A WATER QUALITY OULDME (CALCULATED AS AN INSTANTANEOUS VOLUME) OF ONE (1) INCH OF RUNOFF, OR ONE (1) INCH MINUS THE VOLUME OF STORMWATER TREAT AND ANOTHER SYSTEM OIT HER SET, FROM THE NET INCREASE OF IMPERVIOUS SURFACES CREATED BY THE PROJECT, MINNS IN

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 NOURS TO BYPASS THE SYSTEM THROUGH A STABILIZED DISCHARGE POINT, [MINN. R. 7896]

16 9 PERMITTEES MUST PROVIDE A MEANS TO VISUALLY VERIFY THE INFILTRATION SYSTEM IS DISCHARGING THROUGH THI 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)

INTLIANTATION FOR DESIGN PURPOSES, PERMITTEES MUST DIVIDE FIELD MEASURED INFILTRATION RATES BY 2 AS A SAFETY FACTOR OR PERMITTEES CAN USE SOIL BORNIC RESULTS WITH THE WHILTRATION RATE CHART IN THE MINNESOTA STORMWATER MANUAL TO DETERMINE DESIGN INFILTRATION RATES. WHEN SOIL BORNICS INDICATE TYPE A SOILS, PERMITTEES SHOULD PERFORM FIELD MEASUREMENTS TO VERFY THE RATE IS NOT ABOVE S. J INCHES PER HOUR. THIS PERMIT PROHIBITS INFILTRATION IF THE FIELD MEASURED INFILTRATION RATE IS ABOVE 8.3 INCHES PER HOUR (MINN. R. 7090 16 12 PERMITTEES MUST EMPLOY APPROPRIATE ON SITE TESTING ENSURE A MINIMUM OF THREE (3) FEET OF SEPARATION FROM THE SEASONALLY SATURATED SOILS (OR FROM BEDROCK) AND THE BOTTOM OF THE PROPOSED INFILTRATION

16.13 PERMITTEES MUST DESIGN A MAINTENANCE ACCESS, TYPICALLY EIGHT (8) FEET WIDE, FOR THE INFILTRATION SYSTEM. IMINN. R. 70901

16 14 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS THAT RECEIVE RUNOFF FROM VEHICLE FUELING AND MAINTENANCE AREAS INCLUDING CONSTRUCTION OF INFILTRATION SYSTEMS NOT REQUIRED BY THIS PERMIT. [MINN. R. 7090]

PERMIT, (MINI. R. 7090)

16 16 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS WHERE INFILTRATING STORMWATER MAY MOBILIZE HIGH LEVELS OF CONTAMINANTS IN SOIL OR GROUNDWATER. PERMITTEES MUST EITHER COMPLETE THE MPCA'S CONTAMINATION SCREENING CHECKLIST OR CONDUCT THEIR OWN ASSESSMENT TO DETERMINE TH SUITABILITY FOR INFILTRATION. PERMITTEES MUST RETAIN THE CHECKLIST OR ASSESSMENT WITH THE SWYPP, FOR MORE INFORMATION AND TO ACCESS THE MPCA'S. "CONTAMINATION SCREENING CHECKLIST SEE THE MINISSOTA STORMWATER."

MANUAL [MINN. N. 1999]

16 16 THIS PERMIT PROMISTS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS IN AREAS WHERE SOIL
INFILTRATION RATES ARE FIELD MEASURED AT MORE THAN 8.3 INCHES PER HOUR UNLESS THEY AMEND SOILS TO SLOW THE
INFILTRATION RATE BELOW 8.3 INCHES PER HOUR. [MINN. R. 7090]

INFILTRATION RATE BELOW'S 3 INCHES PER HOUR. (MINN. R. 7090)
16.17 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS IN AREAS WITH LESS THAN THREE
(3) FEET OF SEPARATION DISTANCE FROM THE BOTTOM OF THE WIFILTRATION SYSTEM TO THE ELEVATION OF THE
SEASONALLY SATURATED SOILS OR THE TOP OF BEDROCK. [MINN. R. 7090] 16. 18 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS IN AREAS OF PREDOMINATELY HYDROLOGIC SOIL GROUP TYPE D SOILS (CLAY). (MINN. R. 7090)

15.19 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS WITHIN A DRINKING WATER SUPPLY MANAGEMENT AREA IDWISMA) AS DEFINED IN MINN, R. 4720.5100. SUBP. 13. IF THE SYSTEM WILL BE LOCATED:

A IN AN EMERGENCY RESPONSE AREA (ERA) WITHIN A DWSMA CLASSIFIED AS HAVING HIGH OR VERY HIGH VULNERABILITY AS DEFINED BY THE MINNESOTA DEPARTMENT OF HEALTH; OR B. IN AN ERA WITHIN A DWSMA CLASSIFIED AS MODERATE VULNERABILITY UNLESS A REGULATED MS4 PERMITTEE

PERFORMED OR APPROVED A HIGHER LEVEL OF ENGINEERING REVIEW SUFFICIENT TO PROVIDE A FU TREATMENT SYSTEM AND TO PREVENT ADVERSE IMPACTS TO GROUNDWATER; OR C. OUTSIDE OF AN ERA WITHIN A DWSMA CLASSIFIED AS HAVING HIGH OR VERY HIGH VULNERABILITY, UNLESS A REGULATED MAS PERMITTEE PERFORMED OR THE PROVED A HIGHER LEVEL OF ENGINEERING REVIEW SUFFICIENT TO PROVIDE A FUNCTIONING TREATMENT SYSTEM AND TO PREVENT ADVESS IMPACTS TO GROUNDWATEN.

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)

OF CARDIENT OR TOUTED DOWN CARDIENT OF ACTIVE KARST FEAT LORES, MININE, A 709U TO 18 LED THE PROPERTY 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 ACTIVITIES: AUTOMOBILE SALVAGE YARDS; SCRAP RECYCLING AND WASTE RECYCLING FACILITIES; HAZARDOUS WASTE TREATMENT, STORAGE, OR DISPOSAL FACILITIES; OR ART TRANSPORTATION

17.1 FILTRATION SYSTEMS. [MINN. R. 7090]

17.2 FILTRATION OPTIONS NICLUDE, BUT ARE NOT LIMITED TO: SAND FILTERS WITH UNDERDRAINS, BIOFIL TRATION AREAS, SWALES USING UNDERDRAINS WITH IMPERMEABLE CHECK DAMS AND UNDERGROUND SAND FILTERS. IF PERMITTEES UTILIZE A FILTRATION SYSTEM TO MEET THE PERMANENT STORMWATER TREATMENT REQUIREMENTS OF THIS PERMIT, THEY MUST COMPLY WITH ITEMS 17.3 THROUGH 17.11. [MINN. R. 7090]

COMPLY TWINTIES N. 2.1 THOUGH IT. 1. (18) IN. 1. (18)

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, BEFORE RUNOFF ENTERS THE FILTRATION SYSTEM, [MINN R. 7090]

INSTANTANEOUS VOLUME) OF ONE (1) INCH OF RUNOFF, OR ONE (1) INCH MINUS THE VOLUME OF STORMWATER TR ANOTHER SYSTEM ON THE SITE, FROM THE NET INCREASE OF IMPERVIOUS SURFACES CREATED BY THE PROJECT

17.7 PERMITTEES MUST DESIGN THE FILTRATION SYSTEM TO DISCHARGE ALL STORMWATER (INCLUDING STORMWATER IN EXCESS OF THE WATER QUALITY VOLUME ROUTED TO THE SYSTEM THROUGH THE UPPERMOST SOIL SURFACE OR ENGINEERED MEDIA SURFACE WITHIN 48 HOURS. ADDITIONAL FLOWS THAT THE SYSTEM CANNOT FILTER WITHIN 48 HOURS MUST BYPASS THE SYSTEM OR DISCHARGE THROUGH AN EMERGENCY OVERFLOW, IMINN, R. 7090)

17.8 PERMITTEES MUST DESIGN THE FILTRATION SYSTEM TO PROVIDE A MEANS TO VISUALLY VERIFY THE SYSTEM IS DISCHARGING THROUGH THE SOIL SURFACE OR FILTER MEDIA WITHIN 48 HOURS, (MINN R. 7090) 17.9 PERMITTEES MUST EMPLOY APPROPRIATE ON SITE TESTING TO ENSURE A MINIMUM OF THREE (3) FEET OF SEPARATION BETWEEN THE SEASONALLY SATURATED SOILS (OF FROM BEDROCK) AND THE BOTTOM OF THE PROPOSED FILTRATION

17.10 PERMITTEES MUST ENSURE THAT FILTRATION SYSTEMS WITH LESS THAN THREE (3) FEET OF SEPARATION BETWEEN SEASONALLY SATURATED SOILS OR FROM BEDROCK ARE CONSTRUCTED WITH AN IMPERMEABLE LINER. [MINN. R. 7090] 17.11 THE PERMITTEES MUST DESIGN A MAINTENANCE ACCESS, TYPICALLY EIGHT (8) FEET WIDE, FOR THE FILTRATION SYSTEM, [MINN. R. 7090]

#### 1R 1 WET SEDIMENTATION BASIN, IMINN, R. 70901

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. 7090) 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 DRAWS TO THE BASIN. THE BASIN'S PERMANENT VOLUME MUST REACH A MINIMUM DEPTH OF AT LEAST THREE (3) FEET AND MUST HAVE NO DEPTH OF ATER THAN 10 FEET. PERMITTEES MUST CONFIGURE THE BASIN TO MINIMIZE SCOUR OR RESUSPENSION OF SOLIOS. (MINN. R. 7090)

18.4 PERMITTES MUST DESIGN THE BASIN TO PROVIDE LIVE STORAGE FOR 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 ANIOTHER SYSTEM ON THE SITE, FROM THE NET INCREASE IN MIPPERVOUS SURFACES CREATED BY THE PROJECT, (MINN. R. ANIOTHER SYSTEM ON THE SITE, FROM THE NET INCREASE IN MIPPERVOUS SURFACES CREATED BY THE PROJECT, (MINN. R.

18.6 PERMITTEES MUST DESIGN BASIN OUTLETS TO PREVENT SHORT-CIRCUITING AND THE DISCHARGE OF FLOATING DEBRIS 18 7 PERMITTEES MUST DESIGN THE BASIN TO INCLUDE A STABILIZED EMERGENCY OVERFLOW TO ACCOMMODATE STORM

VENTS IN EXCESS OF THE BASIN'S HYDRAULIC DESIGN, IMINN, R. 70901 18.8 PERMITTEES MUST DESIGN A MAINTENANCE ACCESS. TYPICALLY EIGHT (8) FEET WIDE. FOR THE BASIN, IMINN. R. 70901 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, [MIN. R. 7000]

18.10 PERMITTEES MUST DESIGN BASINS USING AN IMPERMEABLE LINER IF LOCATED WITHIN ACTIVE KARST TERRAIN. IMINN

#### 19 1 REGIONAL WET SEDIMENTATION BASINS IMINN R 7090)

19.2 NEGIONAL WET SEDIMENTATION BASINS. [MINN. R. 7090]

19.2 WHEN THE ENTIRE WATER QUALITY VOLUME CANNOT BE RETAINED ONSITE, PERMITTEES CAN USE OR CREATE REGIONAL WET SEDIMENTATION BASINS PROVIDED THEY ARE CONSTRUCTED BASINS, NOT A NATURAL WETLAND OR WATER BODY, (WETLANDS USED AS REGIONAL BASINS MUST BE MITIGATED FOR, SEE SECTION 22). THE OWNER MUST ENSURE THE REGIONAL BASIN CONFORMS TO ALL REQUIREMENTS FOR A WET SEDIMENTATION BASIN AS DESCRIBED IN ITEMS 18.3 THROUGH 18.10 AND MUST BE LARGE ENOUGH TO ACCOUNT FOR THE ENTIRE AREA THAT DRAINS TO THE REGIONAL BASIN. PERMITTEES MUST VERIEV THAT THAT THE REGIONAL BOSIN WILL DISCHARGE AT NO MORE THAN 6.6 CFS PER ACRE OF SUFFACE AREA OF THE BASIN AND MUST PROVIDE A LIVE STORAGE VOLUME OF ONE INCH TIMES ALL THE IMPERVIOUS AREA DRAINING TO THE BASIN, PERMITTEES CANNOT SIGNIFICANTLY DEGRADE WATERWAYS BETWEEN THE PROJECT AND THE REGIONAL BASIN. THE OWNER MUST OBTAIN WRITTEN AUTHORIZATION FROM THE APPLICABLE LGU OR PRIVATE ENTITY THAT OWNS AND MAINTAINS THE REGIONAL BASIN, MINN. R. 7090]

#### 20.1 SWPPP AVAILABILITY. [MINN. R. 7090]

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

#### 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 COMMENSURATE WITH THE INDIVIDUAL'S JOB DUTIES AND RESPONSIBILITIES WITH REGARD TO ACTIVITIES COVERED UNDER THIS PERMIT: A. INDIVIDUALS PREPARING THE SWPPP FOR THE PROJECT.

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 72 HOURS UPON REQUEST BY THE MPCA . INDIVIDUALS PERFORMING OR SUPERVISING 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, PROFESSIONAL ORGANIZATIONS, OR OTHER ENTITIES WITH EXPERTISE IN EROSION PREVENTION, SEDIMENT CONTROL, PERMANENT STORMWATER TREATMENT AND THE MINNESOTA NPDES/SDS CONSTRUCTION STOWMATER PERMIT. PERMITTEES MUST ENSURE THESE INDIVIDUALS ATTEND A REFRESHER TRAINING COURSE EVERY THREE (3) YEARS. (MINN. R

#### 24.1 GENERAL PROVISIONS. [MINN. R. 7090]

24.2 IF THE MPCA DETERMINES THAT AN INDIVIDUAL PERMIT WOULD MORE APPROPRIATELY REGULATE THE CONSTRUCTION ACTIVITY, THE MPCA MAY REQUIRE AN INDIVIDUAL PERMIT TO CONTINUE THE CONSTRUCTION ACTIVITY. COVERAGE UNDER FINIS GENERAL PERMIT WILL REMAIN IN FEFECT UNTIL THE MPCA ISSUES AN INDIVIDUAL PERMIT (MININ 7, 7001.0210, SUPP.). 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 INPOESISDS PERMIT IN ACCORDANCE WITH 40 CFR 122 28(8)(3), 140 CFR 122 28(8)(3)

24 5 PERMITTEES MUST MAKE THE SWIPP; INCLUDING ALL INSPECTION REPORTS, MAINTENANCE RECORDS, TRAINING RECORDS AND OTHER INFORMATION REQUIRED BY THIS PERMIT, AVAILABLE TO FEDERAL, STATE, AND LOCAL OFFICIALS WITHIN THREE (3) PEARS FOLLOWING THE NOT

[MINN. R. 7090]

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]

24 7 NOTHING IN THIS PERMIT MUST BE CONSTRUED TO RELIEVE THE PERMITTEES FROM CIVIL OR CRIMINAL PENALTIES FOR
NONCOMPLIANCE WITH THE TERMS AND CONDITIONS PROVUED HEREIN. NOTHING IN THIS PERMIT MUST BE CONSTRUED TO
PRECLUDE THE INITIATION OF ANY LEGAL ACTION OR RELIEVE THE PERMITTEES FROM ANY RESPONSIBILITIES, LUBILITIES,
OR PENALTIES TO WHICH THE PERMITTEES ISARE OR MAY BE SUBJECT TO UNIDER SECTION 311 OF THE CLEAN WATER ACT
AND MINN. STAT. SECT. 115 AND 116, AS AMENIDED, PERMITTEES ARE NOT LIABLE FOR PERMIT REQUIREMENTS FOR
ACTIVITIES OCCURRING ON THOSE PORTIONS OF A SITE WHERE THE PERMIT HAS BEEN TRANSFERRED ON ANTHER PARTY
AS REQUIRED IN TIEM 3.7 OR THE PERMITTEES HAVE SUBMITTED THE NOT AS REQUIRED IN SECTION 4. [MINN. R. 7090]

24.8 THE PROVISIONS OF THIS PERMIT ARE SEVERABLE, IF ANY PROVISION OF THIS PERMIT OR THE APPLICATION OF ANY PROVISION OF THIS PERMIT TO ANY CIRCUMSTANCES IS HELD INVALID, THE APPLICATION OF SUCH PROVISI CIRCUMSTANCES, AND THE REMAINDER OF THIS PERMIT MUST NOT BE AFFECTED THEREBY. (MINN. R. 7090)

24.9 THE PERMITTEES MUST COMPLY WITH THE PROVISIONS OF MINN. R. 7001.0150, SUBP. 3 AND MINN. R. 7001.1090, SUBP. 1/A 1(B), 1(C), 1(H), 1(I), 1(J), 1(K), AND 1(L), [MINN. R. 7090] 24.10 THE FERMITTEES MUST ALLOW ACCESS AS PROVIDED IN 40 CFR 122.41(I) AND MINN. STAT. SECT. 116.94. THE PERMITTEES MUST ALLOW ACCESS AS PROVIDED IN 40 CFR 122.41(I) AND MINN. STAT. SECT. 116.94. THE PERMITTEES MUST ALLOW REPRESENTATION 67 CREDENTIALS, TO ENTRE UPON ANY PROPERTY, PUBLIC OR PRIVATE, FOR THE PURPOSE OF OBTAINING INFORMATION OR EXAMINATION OF RECORDS OR CONDUCTING SURVEYS OR INVESTIGATIONS. [40 CFR 122.41(II)]

24.11 FOR THE PURPOSES OF MINN. R. 7090 AND OTHER DOCUMENTS THAT REFERENCE SPECIFIC SECTIONS OF THIS PERMIT, "STORMWATER DISCHARGE DESIGN REQUIREMENTS" CORRESPONDS TO SECTIONS 5, 6 AND 14 THROUGH 21; "CONSTRUCTIC ACTIVITY REQUIREMENTS" CORRESPONDS TO SECTIONS 7 THROUGH 13; AND "APPENDIX A" CORRESPONDS TO SECTIONS 22 AND 23. JUNIN R. 70901



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2045 CONSTANCE BLVD NE HAM LAKE, MN 55304

DEVELOPER

ENTSMINGER ENTERPRISES LLC 14916 CENTRAL AVE NE HAM LAKE, MN 55304

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GENERAL CONTRACTOR

NARRATIVE - PERMANENT STORMWATER TREATMENT SYSTEMS PERMANENT STORMWATER MANAGEMENT FEATURES WILL INCLUDE INFILTRATION BASINS - SEE STORMWATER DRAINAGE REPORT FOR FURTHER DISCUSSION.

#### SITE IMPERVIOUS AREAS

	BEFORE CONSTRUCTION	AFTER CONSTRUCTION		
SITE AREA	16.29 ACRES			
TOTAL ESTIMATED IMPERVIOUS	0.16 ACRES	0.34 ACRES		
TOTAL ESTIMATED PERVIOUS	16.13 ACRES	15.95 ACRES		

TOTAL DISTURBED AREA ~2.2 ACRES

SITE MAP W/ EXISTING AND FINAL GRADES AND DESIGN CALCULATIONS

SEE "STORMWATER DRAINAGE REPORT" FOR EXISTING AND PROPOSED AREA MAPS, DENOTING DRAINAGE AREA BOUNDARIES, DIRECTIONS OF FLOW, AND DISCHARGE POINTS WHERE STORMWATER LEAVES THE SITE.

#### RECEIVING WATERS WITHIN ONE MILE

NAME OF WATER BODY	TYPE OF WATER BODY	SPECIAL WATER	IMPAIRED WATER
PWI 02072200	WETLAND	NO	NO
PWI 02072300	WETLAND	NO	NO
COUNTY DITCH 58	DITCH	NO	NO
HAM LAKE	LAKE	NO	YES

#### BUFFER TO SURFACE WATER

YES NO NIA THE SURFACE WATER PRESERVED?

NOTE: NATURAL BUFFERS ARE NOT REQUIRED ADJACENT TO ROAD DITCHES JUDICIAL DITCHES, COUNTY DITCHES, STORMWATER CONVEYANCE CHANNELS, STORM DRAIN INLETS, AND SEDIMENT BASINS.

A 50-FT NATURAL BUFFER CANNOT BE PROVIDE FOR ALL WETLANDS;
 REDUNDANT SEDIMENT CONTROL MEASURES WILL BE PROVIDED FOR THOSE

#### TEMPORARY SEDIMENTATION BASINS

YES NO NAA THE NIGOR MORE ACRES OF DISTURBED SOIL DRAIN TO A COMMON LOCATION, IS A TEMPORARY SEDIMENT BASIN PROVIDED FOR TREATMS THE RUNOFF BEFORE IT LEAVES THE CONSTRUCTION SITE OR RETREATMS.

AR BECAUSE HIS SITE IS WITHIN ONE [1] MILE OF AN IMPAIRED WATER, THIS REQUIREMENTS IS FIVE (5) ACRES OR MORE. HOWEVER, IT IS NOT ANTICIPATED THAT OVER FIVE (5) ACRES OF AREA WILL BE DISTURBED.

#### INFILTRATION FEASIBILITY

ARE THERE ANY INFILTRATION RESTRICTIONS FOR THE SITE (SEE 16.14

A) THE SITE HAS ZIMMERMAN FINE SANDS IN UPLANDS, WHICH ARE WELL DRAINING HSG A SOILS. INFILTRATION APPEARS TO BE FEASIBLE.

#### ADDITIONAL STORMWATER MITIGATION MEASURES

YES NO . ENVIRONMENTAL PRIVIDENTIAL PRIVIDENTIAL PRIVIDENTIAL PRIVIDENTIAL PRIVILENCE PR

- . ENVIRONMENTAL REVIEW DOCUMENT? ENDANGERED SPECIES REVIEW?
- ARCHAEOLOGICAL REVIEW?
- OTHER LOCAL, STATE OR FEDERAL REVIEW?

FYES TO ANY OF THE ABOVE, DESCRIBE THE MITIGATION MEASURES, FOR PURPOSES OF THIS PERMIT, MITIGATION MEASURES HEADS ACTIONS NECESSARY TO AVOID, MINIMIZE, OR MITIGATE FOR IMPACTS RELATED TO EROSION PREVENTION, SEDIMENT CONTROL, THE PERMANENT STORMWAYE TREATMENT SYSTEM, POLLUTION PREVENTION MANAGEMENT MEASURES AND DISCHARGES ASSOCIATED WITH THE PROJECT'S CONSTRUCTION ACTURY. MINIMISE 2 7000 ACTIVITY, (MINN, R. 7090)

#### DOCUMENTATION OF TRAINED INDIVIDUALS

INDIVIDUAL WHO PREPARED THE SWPPP. LINO LAKES MN 55014

B. INDIVIDUAL(S) OVERSEEING IMPLEMENTATION OF, REVISING AND/OR AMENDING THE SWPPP AND INDIVIDUALS PERFORMING INSPECTIONS FOR THE PROJECT, ONE OF THESE HONOIVIDUALS MUST BE AVAILABLE FOR AN ONSITE INSPECTION WITHIN 72 HOURS UPON REQUEST BY THE MPCA. [MINN. R. 7090]

CONTACT NAME	
CONTACT PHONE	****
CONTACT E-MAIL:	

. INDIVIDUAL(S) PERFORMING OR SUPERVISING THE INSTALLATION, MAINTENANCE AND REPAIR OF BMPS. [MINN. R. 7090]

CONTACT NAME	
CONTACT PHONE	
CONTACT E-MAIL:	

LONG TERM OPERATION AND MAINTENANCE OF PERMANENT STORMWATER FACILITIES THE PROPOSED STORMWATER MANAGEMENT FEATURES FOR THIS SITE WILL BE PRIVATE AND WILL BE MAINTAINED BY LOW OWNERS.

#### REVEGETATION SPECIFICATIONS

ITEM	MNDOT SPECIFICATION/NOTES
SOD	3878
SEED "	3876
• FOR TURF ESTABLISHMENT	
COMMERCIAL TUI	RF MNDOT MIX 25-131 (220 LBS/ACRE)
RESIDENTIAL TU	RF MNDOT MIX 25-131 (120 LBS/ACRE
TEMPORARY FALL COVE	R MNDOT MIX 21-112 (100 LBS/ACRE)
SPRING/SUMM	R MNDOT MIX 21-111 (100 LBS/ACRE)
SOIL-BUILDING COVE	R MNDOT MIX 21-113 (110 LBS/ACRE)
1-2 YEARS COVE	R MNDOT MIX 22-111 (30.5 LBS/ACRE
2-5 YEARS COVE	R MNDOT MIX 22-112 (40 LBS/ACRE)
MULCH	3882 (TYPE 1 - DISC ANCHORED)
HYDROMULCH	3884
FERTILIZER	3881
WOOD FIBER BLANKET	3885 (CATEGORY 2)

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

#### QUANTITIES - ESTIMATED QUANTITIES FOR EROSION AND SEDIMENT CONTROL MEASURES

TYPE	QTY	UNIT			
SILT FENCE	1,863	LINEAR FEET			
BIO-ROLLS	619	EACH			
RIP-RAP W. GEO-FABRIC	0	CUBIC YARDS			
CATCH BASIN INLET PROTECTION	0	EACH			
STABILIZED OVERFLOW (ENKAMAT)	3	EACH			
EROSION CONTROL BLANKET	0	SQUARE YARDS			
SEED & MULCH (GENERAL)	2.1	ACRE			
ROCK CONSTRUCTION ENTRANCE .	0	EACH			

MANKATO STREET TO ACT AS ROCK CONSTRUCTION ENTRANCE

#### NARRATIVE - TIMING FOR INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES

ALL EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS OR IMPLEMENTED IN THE FIELD SHALL BE IN ACCORDANCE WITH THE CITY REQUIRE

INSTALL STABILIZED CONSTRUCTION ENTRANCE.

- 1. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
  2. PROVIDE TEMPORARY PARKINO AND STORAGE AREA.
  3.1. ADDITIONAL SILT FENCE MAY BE NECESSARY IF LOCAL CONDITIONS REQUIRE.
  3.2. THE CONTRACTOR SHALL MAINTAIN SILT FENCE, INCLUDING THE REMOVAL OF ACCUMULATED SEDIMENT, THROUGH COMPLETION OF BUILDING CONSTRUCTION.
  3.3. SILT FENCE SHALL REMAIN IN-PLACE UNTIL SITE HAS BEEN STABILIZED.
  3.4. CONTRACTOR TO PROVIDE ADDITIONAL SILT FENCE, BIOROLLS, EROSION CONTROL BLANKET, OR OTHER APPROVED EQUAL FOR ANY SLOPES THAT APPEAR TO BE FAILING, MOTE: EROSION CONTROL BLANKET MUST HAVE NOW-FIXED JOINTS AND BE FULLY BIODEGRABALE; ANY BLANKET NETTING MUST BE LOSE-MEAVE.
  4. INSTALL TILE PROTECTION FOR ALL EXISTING STORM SEWER STRUCTURES.
  5. INSTALL TILE PROTECTION FOR ALL EXISTING STORM SEWER STRUCTURES.
  6. STALL THE PROTECTION OF PRICING AS APPLICABLE.
  6. CONTRACTOR MUST IMMEDIATELY NUTLATE STABILIZATION OF EXPOSED SOIL AREAS, AS DESCRIBED IN ITEM 8.4 OF THE PERMIT, AND COMPLETE THE STABILIZATION WITHIN SEVEN (?) CALENDAR DAYS AFTER THE CONSTRUCTION ACCUSES.

- ACTIVITY IN THAT PORTION OF THE SITE TEMPORARILY OR PERMANENTLY
  CEASES.
  6.2. CONTRACTOR TO PROVIDE TEMPORARY SEDIMENTATION BASINS AS REQUIRED IN
  SECTION 14.1 THROUGH 14.10.
  7. PAY SPECIAL ATTENTION TO ADJACENT PROPERTY LINES TO ENSURE THE EROSION
  CONTROL PRACTICES IMPLACE IN THOSE AREAS PREVENT MIGRATION OF SEDIMENT
  ONTO ADJACENT PROPERTIES.
  8. STABILIZE SOIL STOCKPILES; STABILIZATION SHALL BE INITIATED IMMEDIATELY.
  9. FINAL GRADE SWALE AREAS UPON STABILIZATION OF UPSTREAM AREAS.
  10. CONTRACTOR SHALL BE RESPONSIBLE TO SWEEP/SCRAPE ADJACENT STREETS
  WHEN MATERIALS OR DEBRIS HAVE WASHED/FLOWED ONTO ADJACENT STREETS OR
  AS DIRECTED BY CITY.

PHASE II:

PROVIDE TEMPORARY SEED FOR DISTURBED AREAS.

INSTALL RIP-RAP AT FLARED-END SECTIONS (AS APPLICABLE).

MINISTALL TEMPORARY INLET PROTECTION FOR ALL STORM SEWER INLET

TOTAL TEMPORARY IN A PAGE C.

MSTALL TEMPORATI NILE! PROTECTION FOR ALL STORM SEWER INCE!
STRUCTURES IN PAVING AREAS.
INSTALL UTILITIES INCLIDING SAMHARY SEWER, WATER MAIN, STORM SEWER.
COMPLETE GRADING AND INSTALL PERMANENT SEEDING ANDIOR SOD.
REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES ONLY AFTER
SITE HAS BEEN STABILIZED.

#### **NPDES DEFINITIONS**

"BEST MANAGEMENT PRACTICES (BMPS)" MEANS THE MOST EFFECTIVE AND PRACTICABLE MEANS OF EROSION PREVENTION AND SEDIMENT CONTROL, AND WATER QUALITY MANAGEMENT PRACTICES THAT ARE THE MOST EFFECTIVE AND PRACTICABLE MEANS OF TO CONTROL, PREVENT, AND MINIMIZE DEGRADATION OF SURFACE WATER, INCLUDING AVOIDANCE OF IMPACTS, CONSTRUCTION-PHASING, MINIMIZING THE LENGTH OF TIME SOIL AREAS ARE EXPOSED, PROHIBITIONS, POLLUTION PREVENTION THROUGH GOOD HOUSEKEEPING, AND OTHER MANAGEMENT PRACTICES PUBLISHED BY STATE OR DESIGNATED AREA-MODE PLANNING AGENCIES. [MINN. R. 7090]

"CONSTRUCTION ACTIVITY" MEANS ACTIVITIES INCLUDING CLEARING, GRADING, AND EXCAVATING, THAT RESULT IN LAND DISTURBANCE OF EQUAL TO OR GREATER THAN ONE ACRE. INCLUDING THE DESTURBANCE OF LESS THAN ONE ACRE. OF TALL LAND AREA THAT IS PART OF A LARGER COMMON PLAN OF DEVELOPMENT OR SALE IF THE LARGER COMMON PLAN WILL ULTIMATELY DISTURBE EQUAL TO OR GREATER THAN ONE ACRE. THIS INCLUDES A DISTURBANCE TO THE LAND THAT RESULTS IN A CHANGE IN THE INCLUDES A DISTURBANCE TO THE LAND THAT RESULTS IN A CHANGE IN THE EXISTING SOIL TOPOGRAPHY, EXISTING SOIL COVER, BOTH VEGETATIVE AND MONVEGETATIVE, OR THE EXISTING SOIL TOPOGRAPHY THAT MAY RESULT IN ACCELERATED STORMWATER RUNOFF THAT MAY LEAD TO SOIL EROSION AND MOVEMENT OF SEDIMENT. CONSTRUCTION ACTIVITY DOES NOT INCLUDE A DISTURBANCE TO THE LAND OF LESS THAN FIVE ACRES FOR THE PURPOSE OF ROUTINE MAINTENANCE PERFORMED TO MAINTAIN THE ORIGINAL LINE AND GRADE, HYDRAULIC CAPACITY, AND ORIGINAL PURPOSE OF THE FACILITY. ROUTINE MAINTENANCE DOES NOT INCLUDE ACTIVITIES SUCH AS REPAIRS, REPLACEMENT AND ORIGINAL DISTURBED AND ACTIVITY. ROUTINE MAINTENANCE DOES NOT INCLOVE ACTIVITIES SOUTH AS GET MAINTENANCE, PAVEMENT REMABILITATION THAT TYPES OF NOTROUTINE THE UNDERLYING SOILS (E.G., MILL AND OVERLAY PROJECTS) IS NOT CONSTRUCTION ACTIVITY, (MINL R. 1999)

OVERTACT PROJECT JIS NOT CONSTRUCTION ACTIVITY, IMMN. F. 1991
"DEWATERING" MEANS THE REMOVAL OF SURFACE OR GROUND WATER TO DRY ANDIOR
SOLIDIFY A CONSTRUCTION SITE TO ENABLE CONSTRUCTION ACTIVITY. DEWATERING MAY
REQUIRE A MINNESOTA DEPARTMENT OF NATURAL RESOURCES WATER APPROPRIATION
PERMIT AND, ID DEWATERING WATER IS CONTAMINATED, DISCHARGE OF SUCH WATER
MAY REQUIRE AN INDIVIDUAL MPCA NPDES/SDS PERMIT, [MINN. R. 7090]

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

"GENERAL CONTRACTOR" MEANS THE PARTY WHO SIGNS THE CONSTRUCTION "GENERAL CONTRACTOR" MEANS THE PARTY VHO SIGNS THE CONSTRUCTION THE FUND OF THE PROJECT DESCRIBED IN THE FINAL PLANS AND SPECIFICATIONS. WHERE THE CONSTRUCTION PROJECT INVOLVES MORE THAN ONE CONTRACTOR, THE GENERAL CONTRACTOR IS THE PARTY RESPONSIBLE FOR MANAGING THE ENTIRE PROJECT ON BEHALF OF THE OWNER. IN SOME CASES, THE OWNER IS THE GENERAL CONTRACTOR. IN THESE CASES, THE GOWNER SIGNS THE PROJECT ON BEHALF OF THE OWNER. IN SOME CASES, THE MANAGING THE GENERAL CONTRACTOR. IN THESE CASES, THE GOWNER SIGNS THE PROJECT ON THE STATE OF THE SOLD PROMITTEE. [MINN. R. 7090]

"GROUNDWATER" MEANS THE WATER CONTAINED BELOW THE SURFACE OF THE EARTH IN THE SATURATED ZONE INCLUDING, WITHOUT LIMITATION, ALL WATERS WHETHER UNDER CONFINED, UNCONFINED, OR PERCHED CONDITIONS, IN NEAR SURFACE UNCONSOLIDATED SEDIMENT OR REGOLITH, OR IN ROCK FORMATIONS DEEPER UNDERGROUND. (MINN. R. 7060)

"HOMEOWNER FACT SHEET" MEANS AN MPCA FACT SHEET AVAILABLE ON THE MPCA CONSTRUCTION STORMWATER WEBSITE FOR PERMITTEES TO GIVE TO HOMEOWNERS AT THE TIME OF SALE. [MINN. R. 7090]

"INFEASIBLE" MEANS NOT TECHNOLOGICALLY POSSIBLE OR NOT ECONOMICALLY PRACTICABLE AND ACHIEVABLE IN LIGHT OF THE BEST INDUSTRY PRACTICES. [MINN. R.

'7990]
"INITIATED IMMEDIATELY" MEANS TAKING AN ACTION TO COMMENCE SOIL STABILIZATION AS SOON AS PRACTICABLE, BUT NO LATER THAN THE END OF THE WORK DAY, FOLLOWING THE DAY WHEN THE LAND-DISTURBING ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE, IF THE PERMITTEES KNOW THAT CONSTRUCTION WORK ON THAT PORTION OF THE SITE WILL BE TEMPORARILY CEASED FOR 14 OR MORE ADDITIONAL CALENDAR DAYS OR 7 CALENDAR DAYS OR THE SITE WILL BE TEMPORARILY CEASED FOR 14 OR MORE ADDITIONAL CALENDAR DAYS OR 7 CALENDAR DAYS OR THE 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 FULLY INSTALLED IN COMPLANCE WITH THE APPLICABLE DEADLINE FOR COMPLETING STABILIZATION.

MINPERVIOUS SURFACE" MEANS A CONSTRUCTED HARD SURFACE THAT EITHER PREVENTS OR RETARDS THE ENTRY OF WATER INTO THE SOIL AND CAUSES WATER TO RUN OF THE SURFACE IN GREATER QUANTITIES AND AT AN INCREASER RATE OF FLOW THAN PRIOR TO DEVELOPMENT. EXAMPLES INCLUDE ROOFTOPS, SIDEWALKS, DRIVEWAYS, PARKING LOTS, AND CONCRETE, ASPHALT, OR GRAVEL ROADS. BRIDGES OVER SURFACES, MINN. R. 7030]

"NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)" MEANS THE PROGRAM FOR ISSUING, MODIFYING, REVOKING, REISSUING, TERMINATING, MONIT AND ENFORCING PERMITS UNDER THE CLEAN WATER ACT, AS AMENDED (33 U.S.C. 1251 ET SEQ. SECTION 1342 AND 40 CFR PARTS 122, 123, 124 AND 450), (MINN, R. 7090)

"NATURAL BUFFER" MEANS AN AREA OF UNDISTURBED COVER SURROUNDING SURFACE WATERS WITHIN WHICH CONSTRUCTION ACTIVITIES ARE RESTRICTED. NATURAL BUFFER INCLUDES THE VEOETATION, EXPOSED ROCK, OR BARREN OROUND THAT EXISTS PRIOR TO COMMENCEMENT OF EARTH-DISTURBING ACTIVITIES. [MINN. R. 7090] "NOTICE 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, GOVERNMENTAL AGENCY, OR OTHER ENTITY DESIGNATED BY THE OWNER WHO HAS DAY TO DAY OPERATIONAL CONTROL ANDIOR THE ABILITY TO MODIFY PROJECT PLANS AND SPECIFICATIONS RELATED TO THE SWPPP, THE PERMIT APPLICATION MUST LIST THE OPERATOR AS A PERMITTEE. SUBCONTRACTORS HIRED BY AND UNDER SUPERVISION OF THE GENERAL CONTRACTOR ARE NOT OPERATORS. (MINN, R. 7090)

THE GENERAL CONTRACTOR ARE NOT OPERATORS. [MINN. R. 7990]

"OWNER" MEANS THE PERSON, FIRM, GOVERNMENTAL AGENCY, OR OTHER ENTITY
POSSESSING THE TITLE OF THE LAND ON WHICH THE CONSTRUCTION ACTIVITIES WILL
OCCUR OR, IF THE CONSTRUCTION ACTIVITY IS FOR A LEASE, EASSEMENT, OR MINERAL
RIGHTS LICENSE NOLDER, THE PARTY OR INDIVIDUAL IDENTIFIED AS THE LEASE
EASEMENT OR MINERAL RIGHTS LICENSE HOLDER; OR THE CONTRACTIONG GOVERNMENT
AGENCY RESPONSIBLE FOR THE CONSTRUCTION ACTIVITY. [MINN. R. 7990]

"PERMANENT COVER" MEANS SURFACE TYPES THAT WILL PREVENT SOIL FAILURE UNDER EROSIVE CONDITIONS, EXAMPLES INCLUDE: GRAVEL, CONCRETE, PERENNIAL COVER, OR EROSIVE CONDITIONS. EXAMPLES INCLUDE: GRAVEL, CONCRETE, PERENNIAL COVER, OR OTHER LANDSCAPED MATERIAL THAT WILL PERMANENTLY ARREST SOLL EROSION. PERMITTEES MUST ESTABLISH A UNIFORM PERENNIAL VEGETATIVE COVER (I.E. EVENLY DISTRIBUTED, WITHOUT LARGE BARE AREAS JWITH A DENSITY OF 70 PERCENT OF THE NATIVE BACKGROUND VEGETATIVE COVER ON ALL AREAS NOT COVERED BY PERMANENT STRUCTURES, OR EGUIVALENT PERMANENT STABLIZATION MEASURES. PERMANENT COVER DOES NOT INCLUDE TEMPORARY BMPS SUCH AS WOOD FIBER BLANKET, MULCH. AND ROLLED EROSION CONTROL PRODUCTS. (MINN. R. 7090)

"PERMITTEES" MEANS THE PERSONS, FIRM, GOVERNMENTAL AGENCY, OR OTHER ENTITY IDENTIFIED AS THE OWNER AND OPERATOR ON THE APPLICATION SUBMITTED TO THE MPCA AND ARE RESPONSIBLE FOR COMPLIANCE WITH THE TERMS AND CONDITIONS OF THIS PERMIT, [MINN. R. 7090]

"PROJECT;[5]" MEANS ALL CONSTRUCTION ACTIVITY PLANNED AND/OR CONDUCTED UNDER A PARTICULAR PERMIT. THE PROJECT OCCURS ON THE SITE OR SITES DESCRIBED IN THE SITE OR SITES DESCRIBED IN THE SETE APPLICATION, THE SWEPP AND IN THE ASSOCIATED PLANS, SPECIFICATIONS AND CONTRACT DOCUMENTS. [MINN. R. 7090]

"PUBLIC WATERS" MEANS ALL WATER BASINS AND WATERCOURSES DESCRIBED IN MINN.

"SEDIMENT CONTROL" MEANS METHODS EMPLOYED TO PREVENT SUSPENDED SEDIMENT IN STORMWATER FROM LEAVING THE SITE (E.G. SILT FENCES, COMPOST LOGS AND STORM DRAIN INLET PROTECTION). [MINN. R. 7090]

"STABILIZED," "STABILIZED," "STABILIZATION" MEANS THE EXPOSED GROUND SURFACE HAS BEEN COVERED BY APPROPRIATE MATERIALS SUCH AS MULCH, STAKED SOD, RIPRAP, REDSION CONTROL BLANKET, MAYS OR OTHER MATERIAL THAT PREVENTS EROSION FROM OCCURRING. GRASS SEEDING, AGRICULTURAL CROP SEEDING OR OTHER SEEDING ADDRESS HOUSE IS NOT STABILIZATION. MULCH MATERIALS MUST ACHIEVE APPROXIMATELY 90 PERCENT GROUND COVERAGE (TYPICALLY 2 TONIACRE). [MINN. R. 70901

"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 IN GRADE. [MINN. R. 7090]

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

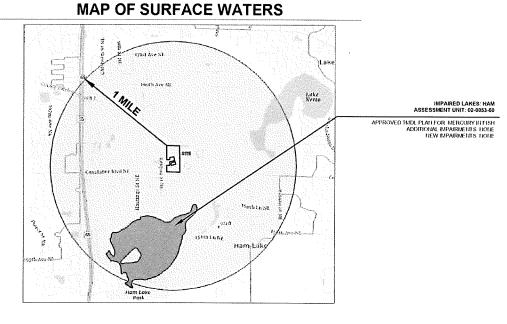
"SURFACE WATER OR WATERS" MEANS ALL STREAMS, LAKES, PONDS, MARSHES WETLANDS, RESERVOIRS, SPRINGS, RIVERS, DRAINAGE SYSTEMS, WATERWAYS. WETLANDS, RESERVOIRS, SPRINGS, RIVERS, DRAINAGE SYSTEMS, WATERCOMESS, AND IRRIGATION SYSTEMS WHETHER NATURAL OR ARTHICIAL, PUBLIC OR PRIVATE, EXCEPT THAT SUFFACE WATERS 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, IMINN, R. 70901

"WATERS OF THE STATE" (AS DEFINED IN MIN. STAT, SECT. 115.01, SUBP. 22) MEANS ALL STREAMS, LAKES, PONDS, MARSHES, WATERCOURSES, WATERWAYS, WELLS, SPRINGS, RESERVOIRS, AGUIFERS, IRRIGATION SYSTEMS, DRAINAGE SYSTEMS AND ALL OTHER BOOIES OR ACCUMULATIONS OF WATER, SURFACE OR UNDERGROUND, NATURAL OR ARTIFICIAL, PUBLIC OR PRIVATE, WHICH ARE CONTAINED WITHIN, FLOW THROUGH, OR BORDER UPON THE STATE OR ANY PORTION THEREOF, [MINN. STAT. 115.01, SUBP. 22] "WATER QUALITY VOLUME" MEANS ONE (1) INCH OF RUNOFF FROM THE NET INCREASE IN IMPERVIOUS SURFACES CREATED BY THE PROJECT (CALCULATED AS AN INSTANTANEOUS VOLUME), (MINN. R. 7090)

INSTANTANEOUS VOLUME; (MINN. R. 7990)
"WETLANDS" (AS DEFINED IN MINN. R. 7950.0186, SUBP. 1A.B.) MEANS THOSE AREAS THAT
ARE INUNDATEO OR SATURATED BY SURFACE WAYER OR GROUNDWATER AT A
REFREQUENCY AND DURATION SUFFICIENT TO SUPPORT, AND UNDER NORMAL
CIRCUMSTANCES DO SUPPORT, A PREVALENCE OF VEGETATION TYPICALLY ADAPTED
FOR LIFE IN SATURATED SOIL CONDITIONS. WETLANDS GENERALLY INCLUDE SWAMPS,
MARSHES, BOGS, AND SIMILAR AREAS. CONSTRUCTED WETLANDS DESIGNED FOR
WASTEWATER TREATMENT AND WATERS OF THE STATE. WETLANDS MUST HAVE THE
FOLLOWING ATTRIBUTES:

- 1. A PREDOMINANCE OF HYDRIC SOILS; AND
- 2. INUNDATED 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 CONDITION; AND
- 3. UNDER NORMAL CIRCUMSTANCES SUPPORT A PREVALENCE OF SUCH VEGETATION.
  [MINN. R. 7050.0186, SUBP. 1A.B]

# 흥물





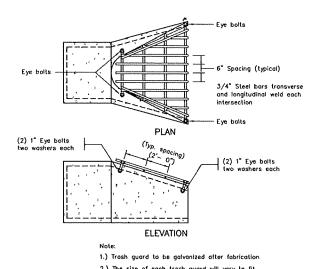
DRAWN BY AG JOB NO. 24-2159 CHECK BY MDA DATE

STAT

Ш́≩ SWPP

ENTSMINGER HAM LAKE

SHEET C1.5

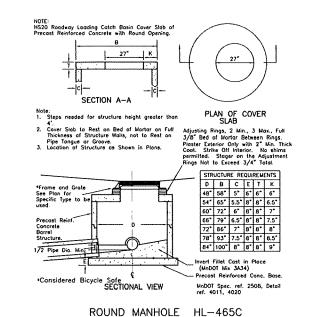


- 2.) The size of each trash guard will vary to fit the apron size.
- 3.) All boits to be non-rusting stainless steel
- 4.) Weld all bolts to prevent entry after final storm sewer cleaning.
- 5.) Round all steel bars such that ends are smooth

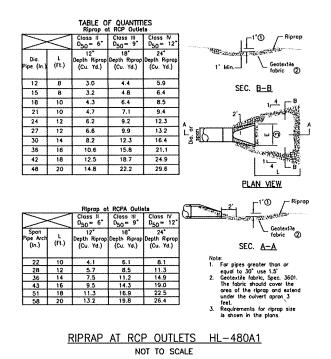
FOR PIPE DIAMETERS 30" AND SMALLER

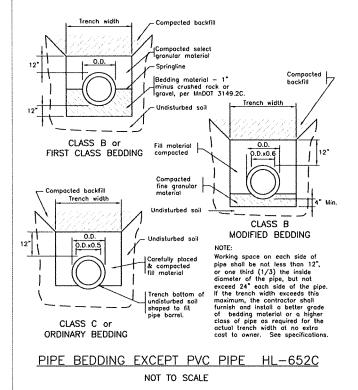
RCP TRASH GUARD HL-466B

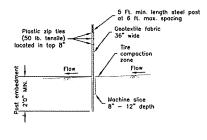
NOT TO SCALE



NOT TO SCALE







#### GENERAL SILT FENCE NOTES:

Refer to MnDOT specs. 2573 & 3886

Silt fence shall be installed along the contour (on a level horizontal plane)

Curve the end of the silt fence up-gradient so that it contains the muddy water.

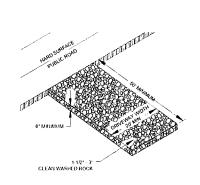
Maximum contributing area shall be one acre.

No single fencing unit should exceed 330 feet

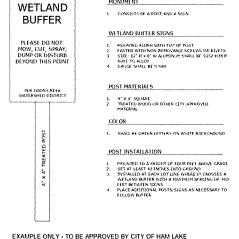
SLOPE GRADE
LESS THAN 2%
2 - 5%
5 - 10%
10 - 20%
GREATER THAN 20%

MAX. LENGTH

SILT FENCE: MACHINE SLICED HL-760A NOT TO SCALE

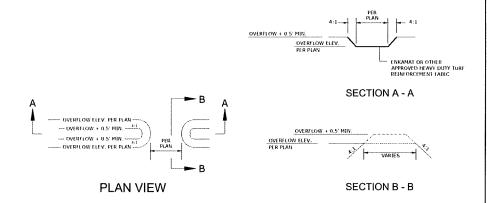






EXAMPLE ONLY - TO BE APPROVED BY CITY OF HAM LAKE AND COON CREEK WATERSHED DISTRICT

WETLAND BUFFER SIGNAGE



**BASIN OVERFLOWS** 

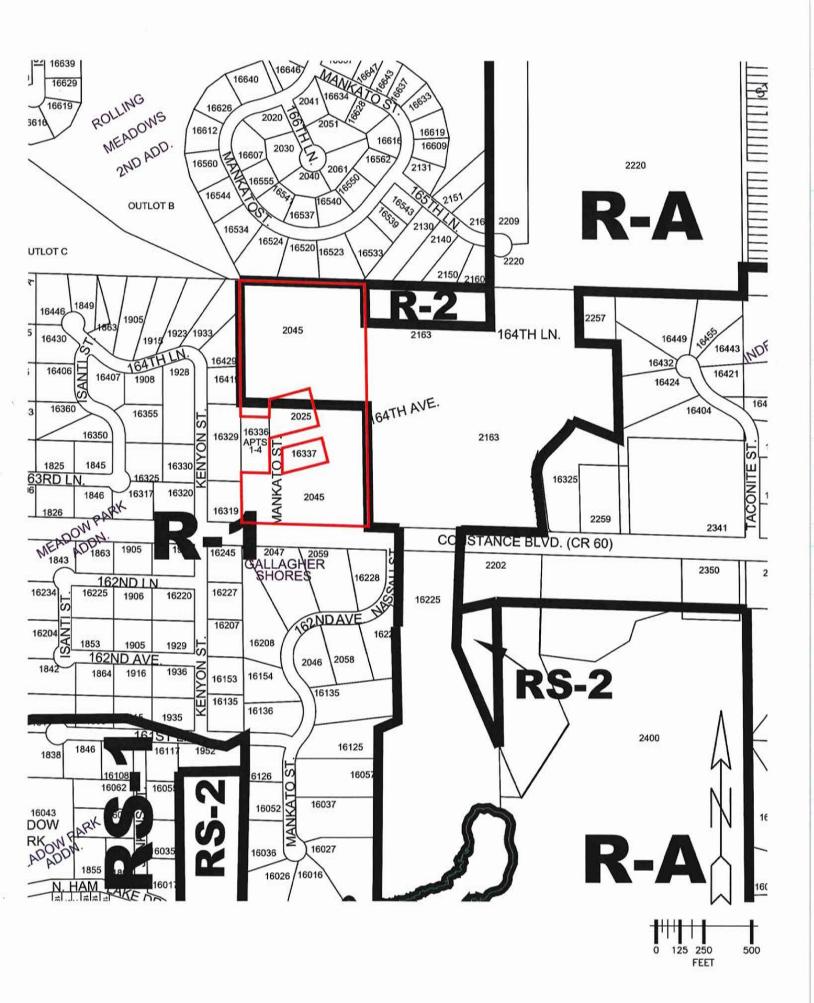
PLOWE ENGINEERING, IN 6775 LAKE DRIVE SUJTE 110 LINO LAKES, MH 550\* PHOME: (651) 361-872? FAX (651) 361-870\*

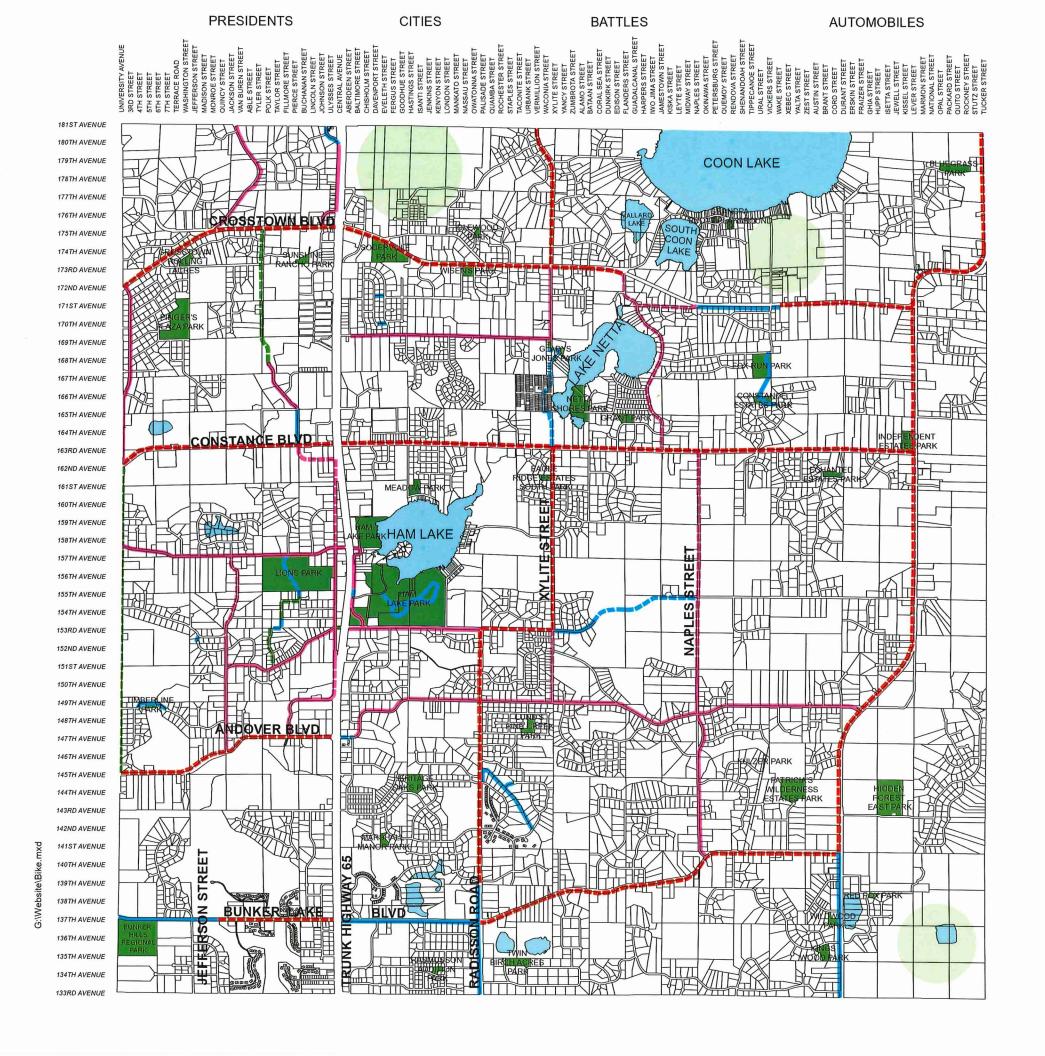
ESTATES

**DETAILS** ENTSMINGER HAM LAKE, I

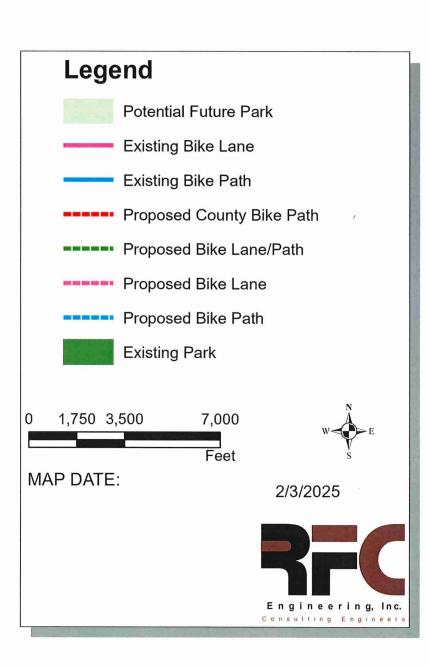
SHEET

C2.1











#### **NOTICE OF PERMIT APPLICATION STATUS**

**Project:** Entsminger Estates

**Date:** January 14, 2025

**Applicant:** ENTSMINGER ENTERPRISES LLC

Attn: JEFF ENTSMINGER 14916 CENTRAL AVE NE HAM LAKE, MN 55304

**Permit Application#:** P-24-040

**Purpose:** Mass grading, construction of stormwater management,

house pad preparation and site restoration for 3 new single-

family residences

**Location:** 2045 Constance Blvd NE, Ham Lake

At their meeting on 01/13/2025 the Board of Managers of the Coon Creek Watershed District **Approved with Conditions** the above referenced project with 3 conditions and 4 stipulations. **This is NOT a permit.** 

Prior to permit issuance, the following conditions must be fulfilled. Please respond to each of these items in writing when resubmitting application materials to the District.

#### **Conditions:**

- 1. Provide proof of recording of a fully executed Operations and Maintenance Agreement for the perpetual inspection and maintenance of all proposed stormwater management practices after review and approval by the District.
- 2. Update the buffer surrounding the Public water to an average of 50 ft with a minimum of 30 ft.
- 3. Submittal of a performance escrow in the amount of \$3,100.00.

After issuance, the permit will include the following stipulations that need to be fulfilled before permit closeout:

#### **Stipulations:**

- 1. The applicant must apply for coverage under the Minnesota Pollution Control Agency's (MPCA's) Construction Stormwater Permit (Permit No: MNR100001)
- 2. Submittal of as-builts for the stormwater management practices and associated structures listed in Tables 2 and 3 of the Application Review Report dated 1/8/2025, including volume, critical elevations and proof of installation for hydrodynamic separators.
- 3. Completion of a post construction infiltration test on Infiltration Basins 1, 2, and 3 by filling the basin to a minimum depth of 6 inches with water and monitoring the time necessary to drain, or multiple double ring infiltration tests to ASTM standards. The Coon Creek Watershed District shall be notified prior to the test to witness the results.

4. If dewatering is required, provide DNR dewatering permit prior to construction. If a DNR permit is not required, provide well-field location, rates, discharge location, schedule and quantities prior to construction.

Please be advised that **this is NOT a permit**, and that work without a permit is a violation of the terms of the Coon Creek Watershed District Rules. If you have any questions, please call 763-755-0975.

Sincerely,

Erin Margl

Watershed Development Coordinator

Erin Margl

cc:

File P-24-040

Eileen Weigel, Stantec

Dave Krugler, City of Ham Lake Jennifer Bohr, City of Ham Lake



## Anoka County TRANSPORTATION DIVISION

Highway

Joseph J. MacPherson, PE County Engineer November 25, 2024

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

RE: Entsminger Estates
Anoka County Approval

Dear Mr. Ginkel,

Anoka County has reviewed the Entsminger Estates plan and has no further comments. Your contractor can contact our permits section at 763-324-3176 or <a href="mailto:HighwayPermits@anokacountymn.gov">HighwayPermits@anokacountymn.gov</a> to obtain the right of way permit.

Sincerely,

Brandon T. Ulvenes Design Engineer

BLT. Ul

cc: File (Ham Lake)

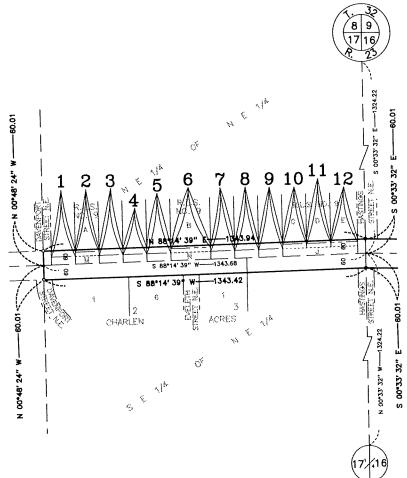
Joe MacPherson, ACHD Jerry Auge, ACHD Sue Burgmeier, ACHD

I:\Eng\Plan Reviews\Ham Lake\2024\Entsminger Estates\ACHD Approval (11-25-24).docx

## ANOKA COUNTY HIGHWAY RIGHT-OF-WAY PLAT NO. 44

County Highway Project No. C.P. 93-04-60





Edward M Tresha, Reputrar of Titles

By Author

Daying Regards of Titles

By Manual March County Regards of Titles

By Manual March County Regards of Titles

267813

I hereby certify that the within instrument was filed in this office on AN 23 195 at 14:55 c'clock P. M.

Office of REGISTRAR OF TITLES STATE OF MINNESOTA COUNTY OF ANOKA ANOKA COUNTY E SURVEYOR

#### CONVENTIONAL SYLVALS

Section Line
Quarter Line
Quarter Quarter Line
Property Line
Plat Boundary Line
Existing R/W Line
R/W Parcel Number
Temporary Easement
Right-of-Way Monument

#### PROCEDURAL STATEMENTS

- The methods and equipment used in the control surveys for this plat and the checks made on monument locations were accomplished with electronic distance measuring devices.
- Parcel areas and entire tract areas shown hereon are computed from legal descriptions and not from actual surveys.
   Certificates of location are on file in the Office of the County Surveyor for the section
- Certificates of location are on file in the Office of the County Surveyor for the section corner monuments shown on this plat.
- For the details of the control survey and land survey, contact the County Surveyor's
   Office for the survey of Anoka County Highway R/W Plat No. 44
   County Project
   No. C.P. 93-04-60
- Bearings shown are based on Anoka County Project Coordinate System.

DICUT OF	DATA CONTAINED V	VITTING TO DOX 1 O		<del></del>					
PARCEL	OWNER		DEED RECORD	TORRENS	ENTIRE TRACT	NEW HIGHWAY		TEMP. EASE. EXPIRES ON DATE	BALANCE OF TRACT REMAININ
		ILDENTIFICATION NUMBER (P.I.N.)	DOCUMENT NO. OR BOOK, PAGE	NUMBER	ACRES	ACRES			ACRES
1	Albin R. and Elien A. Fernstrom	173223110003		√ 35187	0.842	0.062			0.780
2	John L. and Janet C. Clinton	173223110010		√ 38519	0.803	0.023		ļ	0.780
3	Marjorie L. Schulze	173223110004		52207	0.842	0.062	ļ		0.780
4	Sylvester T. and Justine D. Ramacher	173223110005		38402	0.842	0.062	ļ		0.780
5		173223110006		72062	0.842	0.062	ļ	ļ	0.780
6		173223110011		√ 56355	1.333	0.038	ļ		1.295
7	David M. and Marie J. Pralutsky	173223110007		77245	0.842	0.062			0.780
8	James C. and Shirley J. Alfson	173223110008		v 28698	0.842	0.062			0.760
9		173223110009		64192	0.842	0.062			0.780
10		173223110012		√ 50560	0.803	0.023	<u> </u>	ļ	0.780
11		173223110026		V 71149	0.803	0.023			0.780
12		173223110027		V 71150	0.905	0.026	<u></u>	<u> </u>	0.879

The Board of County Commissioners for Anoka County, Minnesota, pursuant to Board resolution Number 94-119, dated August 9, 1994, is hereby designating the definite location of the right-of-way of County Road Number 60 from its intersection with State Trunk Highway Number 65 easterly to its intersection with East Lake Netta Drive.

That portion of said County Road Number 60 located in Sections 15, 16 and 17, Township 32, Range 23, Anoka County, Minnesota, as shown on this plat effected by the County of Anoka, Department of Highways is hereby certified to be the official plat of that portion of said County Road within said Section Pursuant to Minnesota Statutes 160.085.

Certified by Jon 6. Olson, County Highway Engineer Registration No. 12183

Date May 23 , 1991

I hereby certify that this is a true and correct representation of a survey of the boundaries as shown, and that said survey was made under my direct supervision, that all distances are correctly shown in feet and hundredths of a foot, that the monuments for the guidance of future surveys will be correctly placed in the ground as shown after the completion of construction, and that there are no public highways to be designated on said plat other than as shown thereon.

Merivir D. Adderson Registration No. 13596

Meriyiv D. Anderson Anoka County Surveyor

Date May 13 1995

Sheet 1 of 3 Sheets

