# 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, JUNE 13, 2022

CALL TO ORDER: 6:00 p.m.

PLEDGE OF ALLEGIANCE

APPROVAL OF MINUTES: May 23, 2022

**PUBLIC HEARING:** 

6:01 p.m.

Gerald and Arlene Mager, Mager Trust, requesting Preliminary Plat and Final Plat Approval and Rezoning from CD-2, Commercial Development II, to R-1, Single Family Residential, for Magers Meadows, a minor plat (3)

Jonathan

single family residential lots), located in Section 29.

### **NEW BUSINESS:**

1. None

### **COMMISSION BUSINESS:**

1. City Council Update

### CITY OF HAM LAKE PLANNING COMMISSION MINUTES MONDAY, MAY 23, 2022

The Ham Lake Planning Commission met for its regular meeting on Monday, May 23, 2022 in the Council Chambers at Ham Lake City Hall located at 15544 Central Avenue NE in Ham Lake, Minnesota.

MEMBERS PRESENT:

Chair Brian Pogalz and Commissioners Scott Heaton, Jeff

Entsminger, Jonathan Fisher, Kyle Lejonvarn and Erin Dixson

MEMBERS ABSENT:

Commissioner Dave Ringler

OTHERS PRESENT:

City Engineer, Tom Collins, Building and Zoning Official, Mark

Jones, and Building and Zoning Clerk, Jennifer Bohr

CALL TO ORDER:

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

### PLEDGE OF ALLEGIANCE:

The pledge of allegiance was recited by all in attendance.

### APPROVAL OF MINUTES:

Motion by Lejonvarn, seconded by Entsminger, to approve the minutes of the May 9, 2022 Planning Commission meeting as written. All present in favor, motion carried.

**PUBLIC HEARING: None** 

Commissioner Fisher arrived at 6:02 p.m.

### **NEW BUSINESS:**

Schoenrock Holdings, LLC requesting Commercial Site Plan approval to construct an 11,800 square foot office/warehouse building at 13319 Aberdeen Street NE (PID# 32-32-23-43-0001).

Mr. Troy Schoenrock and Mrs. Laura Schoenrock were present representing Schoenrock Holdings, LLC and Live Wire Electrical Services. Mr. Schoenrock stated they have already purchased trusses and materials for the building due to lead time on materials and impending deadlines with financing. Mr. Schoenrock stated their intent is to construct an energy efficient building that will have solar panels. Mr. Schoenrock stated the City has been good to work with. Commissioner Lejonvarn inquired about the types of deliveries that will be made to the site and the types of trucks making those

deliveries. Chair Pogalz stated that Mr. Schoenrock may have put the "cart before the horse" in ordering materials before any building plans were submitted to the City for review and approval. Commissioner Heaton completed the inspection, a copy which is on file. Commissioner Heaton stated there is currently a pile of dirt and a septic mound on the site; there is residential property to the south in the City of Blaine across 133rd Avenue NE, Jam Hops is located to the east and Woody's Garage is to the north. Commissioner Heaton stated he felt the location was suitable for this type of business, but, per the notes from Building Official, Mark Jones and City Engineer, Tom Collins, there is some concern with the limited parking area shown on the site plan. Commissioner Heaton stated the applicants stated deliveries will not be made by semitrucks at this location. Commissioner Lejonvarn asked what standard deliveries would look like; would Viking Electric deliver to the Aberdeen Street NE location. Schoenrock stated Viking Electric typically delivers materials directly to job sites. Commissioner Lejonvarn asked Mr. Schoenrock what his plan is if something would have to be delivered by semi-truck. Mr. Schoenrock stated semi-truck deliveries, which are normally solar panels, are delivered to a location in Isanti; the panels are put on trailers at that site and delivered to the job site. Mr. Schoenrock stated they are not expecting a lot of deliveries at the Aberdeen Street NE location. Chair Pogalz reviewed the documents submitted by Engineer Collins. Chair Pogalz asked Engineer Collins if the current septic system was adequate for the business. Engineer Collins stated the soil tester determined up to twenty-five people could use the existing septic system. Engineer Collins stated a license agreement with the City will be needed for the septic encroachment into the 10-foot setback from the east property line. Engineer Collins stated a license agreement with the City will also be needed for the fire apparatus road as it encroaches into the 10-foot setback from the north property line; the fire apparatus road must be plowed during the winter. Engineer Collins stated the northerly 33-feet of 133rd Avenue NE right-of-way, of the existing 66-feet of right-of-way, within the City of Ham Lake, which is adjacent to 33-feet of the City of Blaine right-of-way, is proposed to be vacated; a public hearing will be held by the City Council on June 6, 2022. Chair Pogalz asked Building Official Jones, if there are limitations on exterior building finishes for this building. Building Official Jones stated there are some limitations to the exterior finish but no plans have been submitted for review yet. Mr. Schoenrock stated the exterior finish of the building will be steel, lap siding with a five-foot rock wainscot around the entire building. Commissioner Entsminger asked how much of a concern parking is at the location if the Schoenrock's are going to control tenant parking in their lease agreements; would the City have the ability to apply conditions to parking at the location if or when the building sells. Engineer Collins stated office/warehouse use is now an allowed use in the CD-1 zoning district; when the application was submitted, office/warehouse structures were a Conditional Use but City Code changed in November 2021 making office/warehouse use a permitted use. Commissioner Entsminger asked if the City had any recourse if vehicles were parked along the street, or semi-trucks were blocking traffic. Engineer Collins stated both Aberdeen Street NE and 133rd Avenue NE are Municipal State Aid (MSA) roads; the City can cite or tow vehicles parked within public right-of-way; all parking must be off street and maintained on-site. Chair Pogalz reiterated his concern with the size of the parking area. Chair Pogalz stated trucks as small as UPS delivery trucks may be able to maneuver in the parking lot in the summer but when it snows in the winter, maneuvering may become more difficult. Chair Pogalz asked if there were overhead doors for deliveries. Engineer Collins stated parking and no parking areas were designed and sized to the overhead doors shown on the plan. Engineer Collins stated a turning movement exhibit for pick-up truck sized vehicles was provided to the City by the design engineer for both units. Chair Pogalz expressed concern on where the trash enclosure is shown on the plans and questioned whether or not garbage trucks could maneuver in and out of the parking lot easily. Mr. Schoenrock stated he would consider purchasing a dumpster with wheels. Chair Pogalz asked Building Official Jones to comment. Building Official Jones stated his biggest concern is delivery truck access to the office/warehouse facility. Building Official Jones stated there are two locations in the City where the sites do not have enough space for semi-trucks to back onto the property: the trucks block traffic during deliveries. Building Official Jones is concerned that traffic could be blocked on Aberdeen Street NE at this location if large trucks deliver to the site. Building Official Jones stated he is also concerned of what may come in the future if the building is used for something other than office/warehouse use and a use that requires more parking than is available on the site. Chair Pogalz concurred with Building Official Jones' concerns and stated he didn't want to disregard the lessons the City has learned from issues that have had to be managed at other locations in the city. Motion by Heaton, seconded by Fisher, to recommend approval of the commercial site plan to construct a 11,800 square foot office/warehouse building at 13319 Aberdeen St NE subject to obtaining license agreements with the City for septic and fire apparatus lanes within setback areas and meeting all City, State and County requirements. Commissioners Heaton, Fisher, Dixson, Entsminger and Lejonvarn voted yes, Commissioner Pogalz voted no, motion carried. This item will be placed on the June 6, 2022 City Council Agenda.

### **COMMISSION BUSINESS:**

City Council Update

Building and Zoning Clerk Bohr stated the amendment to the Conditional Use Permit for Storage World was approved by the City Council. Commissioner Heaton will be attending the June 6, 2022 City Council meeting.

### ADJOURNMENT:

Motion by Heaton, seconded by Fisher, to adjourn the Planning Commission meeting at 6:31 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: 06/13/2022

NSPECTION ISSUED TO: Jonathan Fisher
APPLICANT/CONTACT: Gerald & Arlene Mager
TELEPHONE NUMBER: <u>763-434-5200 or 763-245-1157</u>
BUSINESS/PLAT NAME: Magers Meadows, Minor Plat
ADDRESS/LOCATION OF INSPECTION: 1157 Andover Blvd NE
APPLICATION FOR: Preliminary Plat Approval
RECOMMENDATION:
DATE:
PLANNING COMMISSIONER SIGNATURE:



# PLANNING REQUEST

RECEIVED
APR 1 5 2022
Ву: почення при

# CITY OF HAM LAKE

# 15544 Central Avenue NE Ham Lake, MN 55304

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

Date of Application April 15, 2022	Date of Receipt
	Receipt #
Meeting Appearance Dates: Planning Commission	City Council
Please check request(s):  Metes & Bounds Conveyance  Sketch Plan  Preliminary Plat Approval*  Final Plat Approval  Rezoning* Multiple Dog License*  *NOTE: Advisory Signage is required for land use all	Commercial Building Site Certificate of Occupancy Home Occupation Permit Conditional Use Permit (New)* Conditional Use Permit (Renewal) Other
This application also requires a Public Hearing. Such	
Development/Business Name: Magers Meadows	-
Address/Location of property: 1157 Andover Boulevard N	
Legal Description of property: The NW 1/4 of the NW 1/4	, Sec. 29, 1 32, R 23
PIN # 29-32-23-22-0001 Curren	t Zoning CD-2 Proposed Zoning R-1
Notes: 3 lot minor plat	
,	
Applicant's Name: Gerald and Arlene Mager	
Business Name: Mager Trust	
Address 1157 Andover Boulevard NE	
City Ham Lake	State MN Zip Code 55304
Phone 763-434-5200 Cell Phone 763-2	<b>Fax</b> n/a
Email address mager95@aol.com	
You are advised that the 60-day review period requi	•
not begin to run until <u>all</u> of the required items have	been received by the City of Ham Lake.
SIGNATURE Level / Corps	DATE 4-14-2022
******************	******************
- FOR STAFF U ACTION BY: Planning Commission	BE UNLY -
City 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, June 13, 2022 at 6:01 p.m. at the City Hall located at 15544 Central Avenue NE for the purpose of considering the application of Gerald and Arlene Mager, Mager Trust, requesting preliminary plat approval and rezoning from CD-2 (Commercial Development II) to R-1 (Single Family Residential) of a minor plat, Magers Meadows (3 residential lots), in Section 29 a parcel of certain land situated in the City of Ham Lake, Anoka County, Minnesota and which is described as follows to wit:

PID# 29-32-23-22-0001

THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 29, TOWNSHIP 32, RANGE 23, ANOKA COUNTY, MINNESOTA.

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

DATED: June 3, 2022

Jennifer Bohr Building and Zoning Clerk City of Ham Lake



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

### Memorandum

Date:

May 26, 2022

To:

Planning Commissioners

From:

Tom Collins, City Engineer

Subject:

Magers Meadows

### Introduction:

The Preliminary and Final Plat for Magers Meadows subdivides the 36.3-acre 1157 Andover Boulevard / 29-32-23-22-0001 parcel (https://gis.anokacountymn.gov/propertysearch/?find=29-32-23-22-0001) into three lots. The existing house and accessory buildings are located on proposed Lot 2, Block 2. The current zoning is Commercial Development Tier 2 (CD-2) and the proposed zoning is Single Family Residential (R-1). A 500-scale zoning map, 300-scale half-section map and a 300-scale aerial photo are also attached.

### Discussion:

The Preliminary Plat and Livability Plan received May 24<sup>th</sup>, the Title Sheet, Legend & Existing Conditions, Grading, Drainage and Erosion Control Plan, Details & Notes and Stormwater Pollution Prevention Plan and Drainage Report received May 12<sup>th</sup> and the Final Plat received April 15<sup>th</sup> address the prior review comments. The proposed subdivision falls under the Minor Plat portion of City Code Section 10-101. The dedication of Pierce Street right-of-way and drainage and utility easements were dedicated in 2009 via the attached City of Ham Lake Highway Right-of-Way Plat No. 1. The plat dedicated the required 10-foot drainage and utility easements around the perimeter of both Block 1 and Block 2, easements over County Ditch 57-2 and easements to contain the 2019 delineated wetland boundary.

Because the minor plat is utilizing the existing infrastructure, and no construction is required other than individual lot development, a Development Agreement will not be required. The developer will need to pay a \$200 drainage fund contribution along with a \$2,500 parkland dedication fee for each of the three lots.

The Soil Boring Test Report confirms that there is adequate area for a primary and secondary septic system for Lot 1, Block 1 and Lot 1, Block 2, and for a secondary septic system for Lot 2, Block 2. 11-450.4c of City Code requires that a septic compliance inspection be performed when a parcel with an existing septic system is subdivided. The attached Tradewell septic inspection found that the existing 1157 Andover Boulevard septic system is non-compliant. The system will need to be replaced within 24 months of the May 4<sup>th</sup> inspection letter, per section 11-450.7.B of City Code. The replacement septic area is shown on the plans and has been verified with an additional Soil Boring Test Report. Per 10-430E.2 of City Code, the existing 1157 Andover Boulevard driveway will have to be paved prior to consideration of any future building permits.

The April 28<sup>th</sup> Anoka County Transportation Division review, and the May 24<sup>th</sup> County email are attached. The additional Andover Boulevard right-of-way dedication is shown on the Final Plat to meet the 60-foot minimum and County review of the plans is not required since there will not be impacts to the County right-of-way.

Coon Creek Watershed District (CCWD) conditionally approved the minor plat at their April 11<sup>th</sup> Board of Directors meeting. The Notice of Permit Application Status is attached. The CCWD permit will be issued once the \$2,130 escrow is paid. The CCWD did not require a Natural Heritage Information System data review by the DNR to determine whether any state-protected species may be located within the property.

### Recommendations:

It is recommended that the Preliminary Plat and Final Plat for Magers Meadows be recommended for approval, contingent on the existing septic system being brought into compliance by May 4, 2024.

### **PRELIMINARY PLAT** ~of~ MAGERS MEADOWS ~for~ GERALD MAGER 1157 ANDOVER BOULEVARD NE HAM LAKE, MN 55304 NORTH LINE OF THE NW 1/4 OF THE NW 1/4 SEC. 29 TWP, 32 RNG, 23 LEGEND NORTH S89°20'54"W 1340.14 DENOTES IRON MONUMENT FOUND BADRED WIDE FENCE x 1011.2 DENOTES EXISTING ELEVATION DENOTES AIR CONDITIONING UNIT GRAPHIC SCALE DENOTES BOLLARD DENOTES CATCH BASIN DENOTES ELECTRICAL BOX DENOTES GAS METER 1 INCH = 100FEETDENOTES SIGN 105,176 S.F. (2.41 ACRES) DENOTES GUY WIRE DENOTES MAILBOX DENOTES POWER POLE DENOTES SOIL BORING. (BY MARK TRADEWELL) **LEGAL DESCRIPTION:** BLOCK DENOTES STORM SEWER APRON DENOTES TELEPHONE PEDESTAL The Northwest Quarter of the Northwest Quarter of Section 29, Township 32, Range 23, Anoka County, Minnesota. (00) DENOTES WELL DENOTES WET LAND DENOTES FENCE DENOTES RESTRICTED ACCESS DEDICATED TO ANOKA COUNTY BENCHMARK DENOTES EXISTING STORM SEWER BENCHMARK: MNDOT 0208 N ELEVATION: 890.297 (NAVD88) DENOTES EXISTING CONTOURS DENOTES BITUMINOUS SURFACE DENOTES GRAVEL SURFACE DENOTES ADJACENT PARCEL OWNER INFORMATION (PER ANOKA COUNTY TAX INFORMATION) 1,225,584 S.F. (28.14 ACRES) **VICINITY MAP** PART OF SEC. 29, TWP. 32, RNG. 23 **ZONING INFORMATION 2** 250,402 S.F. EXISTING = CD-2 (COMMERCIAL DEVELOPMENT TIER 2) PROPOSED = R-1 (SINGLE FAMILY RESIDENTIAL) (5.75 ACRES) 898 NOTES Field survey was completed by E.G. Rud and Sons, Inc. on 02-24-22. Bearings shown are on Anoka County datum. This survey was prepared without the benefit of title work. Additional easements, restrictions and/or encumbrances may exist other than those shown hereon. Survey subject to revision upon receipt of a current title commitment or an attorney's title opinion. AND STORM SEWER PER Wetland delineation completed by Jacobson Environmental. Parcel ID Number: 29-32-23-22-0001 Curb shots are taken at the top and back of curb. DRAINAGE AND LITTLETY EASEMENT WOOD SLAT FENCE HIGHWAY RIGHT-OF-WAY PLAT NO.1 DRAINAGE AND UTILITY EASEMENTS ARE SHOWN THUS: ANOKA COUNTY, MINNESOTA COUNTY ROAD NO. 16 ANDOVER BOULEVARD NE. SOUTH LINE OF THE NW 1/4 OF THE NW 1/4 SEC. 29 TWP. 32 RNG. 23. N89°35'19"E 1335.01 BEING 10 FEET WIDE ON EACH SIDE OF I hereby certify that this survey, plan E.G. RUD & SONS, INC. or report was prepared by me or unde my direct supervision and that I am a FST. 1977 Professional Land Surveyors duly Registered Land Surveyor under the laws of the State of Minnesota. 6776 Lake Drive NE, Suite 110 CHECK BY: JER FIELD CREW: RW/MR Lino Lakes, MN 55014 Tel. (651) 361-8200 Fax (651) 361-8701 ADDED FIELD INFO. Date: 05-24-22 License No. 41578

# **LIVABILITY PLAN**

~of~ MAGERS MEADOWS ~for~ GERALD MAGER 1157 ANDOVER BOULEVARD NE **HAM LAKE, MN 55304** 

### **LIVABILITY STANDARDS**

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

- A. ISTS Area Each lot must contain at least 7,500 square feet of contiguous area which is reserved for both the ISTS originally constructed and a future ISTS. The ISTS Area need not be contiguous to the Eligible building Area or the Yard Area, but the entire ISTS Area must exist at an elevation at least one foot above Unsuitable Soils, and must contain Undisturbed Soils or soils which meet the requirements of Rule 7080 of the Minnesota Pollution Control Agency for 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
- B. Eligible Building Area Each lot shall contain at least 10,000 square feet of contiguous land which lies at an elevation at least four feet above Unsuitable Soils. The Eligible Building Area may not be irregular in shape, and should be generally rectangular or ovoid, with no panhandles, narrow necks or peninsulas. Eligible Bullding 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.
- Yard Area Each lot shall contain at least 12,000 contiguous square feet
- Lies above the 100 year flood contour, and Lies at least one foot above soils unsuitable for the intended usage of the Yard area, and
- vard area, and
  ii) Is contiguous to the Eligible Building Area for a distance of at least fifty
  percent of the lineal perimeter of the Eligible Building Area. Yard Areas may
  encroach into the dedicated easement area which lies at a distance of ten
  feet from the perimeter of the lot, and may encroach into areas reserved by
  easement or otherwise for other public utility purposes, but may not encroach into any other area reserved by dedication or otherwise for road or drainage purposes, any may not encroach into any areas within the 100 year flood contour or into designated wetlands. Yard Areas may be irregular in shape except within thirty feet of the locations where the Yard Area is contiguous to the Eligible Building Area, at which locations the Yard Areas shall be a logical extension or expansion of the generally rectangular or ovoid shape of the Eligible Building Area. Fill may be used to create Yard
- D. Building Pad Areas The entire Building Pad must lie within the Eligible Building Area, and shall meet the separation requirements for the Eligible Building Area.
- E. Low Floor Elevations
   For walkout designs, the low floor elevation shall be at least one foot above the 100 year flood contour, but, notwithstanding the 100 year flood contour, not less than one foot above unsuitable soils, as determined by the
- ii) For other designs, the low floor elevation shall be at least one foot above the 100 year flood contour, but, notwithstanding the 100 year flood contour, not less than one foot above unsuitable soils, as determined by the

### NOTES

- Field survey was completed by E.G. Rud and Sons, Inc. on 02-24-22.
- Bearings shown are on Anoka County datum.
- This survey was prepared without the benefit of title work. Additional easements, restrictions and/or encumbrances may exist other than those shown hereon. Survey subject to revision upon receipt of a current title commitment or an attorney's title opinion.
- Wetland delineation completed by Jacobson Environmental.
- Parcel ID Number: 29-32-23-22-0001.
- Curb shots are taken at the top and back of curb.
- Proposed building pads, grading, and civil design provided by Plowe Engineering.

### LEGEND

- DENOTES IRON MONUMENT FOUND , 1011.2 DENOTES EXISTING ELEVATION
- DENOTES AIR CONDITIONING UNIT
- DENOTES BOLLARD
- DENOTES CATCH BASIN
- DENOTES ELECTRICAL BOX
- DENOTES GAS METER
- DENOTES SIGN
- DENOTES GUY WIRE
- DENOTES MAILBOX
- DENOTES POWER POLE
- DENOTES SOIL BORING. (BY MARK TRADEWELL)
- DENOTES STORM SEWER APRON
- DENOTES TELEPHONE PEDESTAL
- **DENOTES WELL**
- DENOTES WET LAND
- DENOTES FENCE
- DENOTES RESTRICTED ACCESS
- DEDICATED TO ANOKA COUNTY
- DENOTES EXISTING STORM SEWER
- DENOTES EXISTING CONTOURS
- DENOTES BITUMINOUS SURFACE
- - DENOTES GRAVEL SURFACE DENOTES ADJACENT PARCEL OWNER INFORMATION (PER ANOKA COUNTY TAX INFORMATION)



DENOTES PROPOSED BUILDING PAD AREA

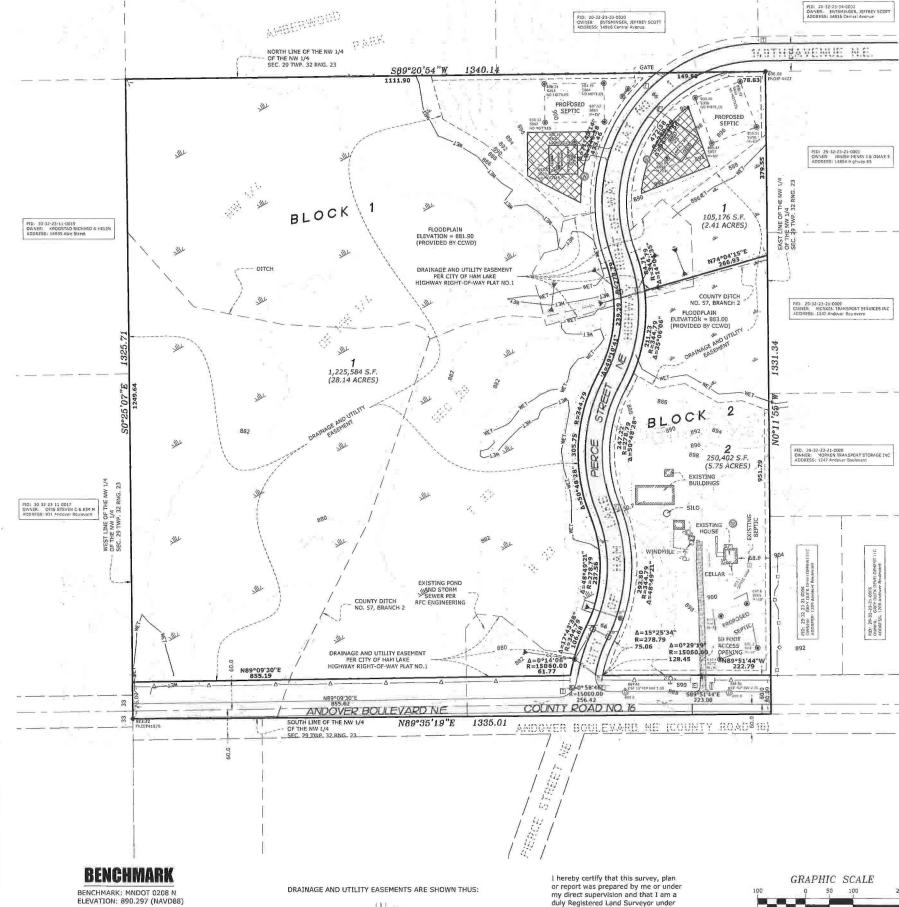


DENOTES PROPOSED YARD AREA DENOTES PROPOSED SEPTIC AREA

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

Lot#	Block#	Total Lot	Yard	Septic	<b>Building Pad</b>	Building Pad	Garage	Proposed Low	Proposed Low	Lowest	Lowest	Boring #	Boring	Mottles	Building
		Area (sf)	Area (sf)	Area (sf)	Area (sf)	Area 4' Above	Floor	Opening	Floor	Opening	Floor		Elevation	Elevation	Туре
						Mottling (sf)	Elevation	Elevation	Elevation	Elevation	Elevation				
1	1	1,225,584	51,848	10,000	14,552	10,497	898.7	893.1	893.1	893.1	893.1	60	902.35	NONE	W/0*
												61	897.63	892.1	DROP 3 COURSES
												62	898.32	NONE	
												63	898.34	NONE	
												64	894.79	NONE	
												70	897.29	NONE	
1	2	105,176	29,969	10,000	13,059	8,318	899.4	891.7	891.7	891.7	891.1	55	896.89	890.7	W/O
												56	900.26	NONE	
												57	895.47	890.0	
												58	895.51	890.3	
												59	898.82	NONE	
2	2	250,402	175,917	8,429	N/A	N/A	N/A	N/A	N/A	N/A	N/A	65	897.20	891.2	N/A
												56	897.80	892.1	
												71	892.12	889.0	
												72	892.64	888.8	





**LEGAL DESCRIPTION:** 

The Northwest Quarter of the Northwest Quarter of Section 29, Township 32, Range 23, Anoka County, Minnesota.



duly Registered Land Surveyor under the laws of the State of Minnesota.



1 INCH = 100FEET

Date: \_\_\_05-24-22 \_\_\_ License No. 41578

DRAWN BY: BCD | JOB NO: 220102PP | DATE: 04-14-22 CHECK BY: JER FIELD CREW: RW/MR 05-03-22 CITY COMMENTS

# **MAGERS MEADOWS**

# TITLE SHEET, LEGEND, & EXISTING CONDITIONS

HAM LAKE, MINNESOTA

### LEGEND

	EXISTING OVERHEAD ELECTRIC		PROPOSED WATER PIPE
—та.——	EXISTING UNDERGROUND TELEPHONE		PROPOSED SANITARY SEWER PIPE
—— СВІ.———	EXISTING UNDERGROUND CABLE	>>	PROPOSED STORM SEWER PIPE
01	EXISTING TELEPHONE PEDESTAL		PROPOSED DRAINTILE AND CLEAN-OUT
Œ	EXISTING ELECTRICAL PEDESTAL	ELEC	PROPOSED ELECTRIC SERVICE *
C	EXISTING CABLE PEDESTAL	——GAS——	PROPOSED GAS SERVICE *
LQ7	EXISTING UTILITY POLE	TEL	PROPOSED TELEPHONE SERVICE *
<b>\$</b>	EXISTING LIGHT POLE	0	PROPOSED STORM MANHOLE
	EXISTING STORM SEWER		PROPOSED CATCH BASIN
—-I——	EXISTING WATER MAIN	Δ	PROPOSED FLARED-END SECTION
<del>&gt;</del>	EXISTING SANITARY SEWER	Χs	PROPOSED GATE VALVE
	EXISTING FORCEMAIN	×	PROPOSED HYDRANT
0	EXISTING STORM MANHOLE	(S)	PROPOSED SANITARY SEWER MANHOLE
	EXISTING CATCH BASIN	928	PROPOSED CONTOUR
€	EXISTING FLARED-END SECTION	930	PROPOSED CONTOUR
≥∑	EXISTING GATE VALVE	<b>X</b> 920.60	PROPOSED SPOT ELEVATION (GUTTERLINE, BITUMINOUS
X	EXISTING HYDRANT		SURFACE, OR GROUND SURFACE UNLESS OTHERWISE INDICATED)
00	EXISTING WELL	——s—	PROPOSED SILT FENCE
<b>S</b>	EXISTING SANITARY SEWER MANHOLE	4.0%	PROPOSED DIRECTION OF DRAINAGE
928	EXISTING CONTOUR		PROPOSED BITUMINOUS
× 920.99	EXISTING SPOT ELEVATION	•,•,•,•	PROPOSED FILTRATION MEDIA
×907.42	EXISTING SPOT ELEVATION (MATCH INTO ELEVATION)	0	PROPOSED INLET PROTECTION
	EXISTING BITUMINOUS	2.2.2.2.11.2.2.W	PROPOSED HEAVY-DUTY PAVEMENT
(3)	EXISTING TREES	000000000000000000000000000000000000000	PROPOSED ENKAMAT
Nove .		.00000000	PROPOSED RETAINING WALL
	EXISTING TREE TO BE REMOVED		BITUMINOUS PAVEMENT REMOVAL
	SURFACE DRAINAGE DIRECTION		CONCRETE SIDEWALK REMOVAL
х	EXISTING FENCE	* *	PROPOSED CONCRETE SIDEWALK
·	EXISTING RETAINING WALL		
WET-	EXISTING WETLAND	(1)	SEPTIC BORING LOCATIONS
		* NOT ALL SYMBO	LS ARE APPLICABLE.

### **GENERAL NOTES**

THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF EXISTING UTILITIES IS NO GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DET AS TO TYPE AND LOCATION OF UTILITIES AS INCESSARY TO AUDO DAMAGE TO THESE UTILITIES.

CALL "811" FOR EXISTING UTILITIES LOCATIONS PRIOR TO ANY EXCAVATIONS

THE CONTRACTOR SHALL FIELD VERIFY SIZE, ELEVATION, AND LOCATION OF EXISTING SANITARY SEWER, STORM SEWER, AND WATER MAIN AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO THE START OF INSTALLATIONS.

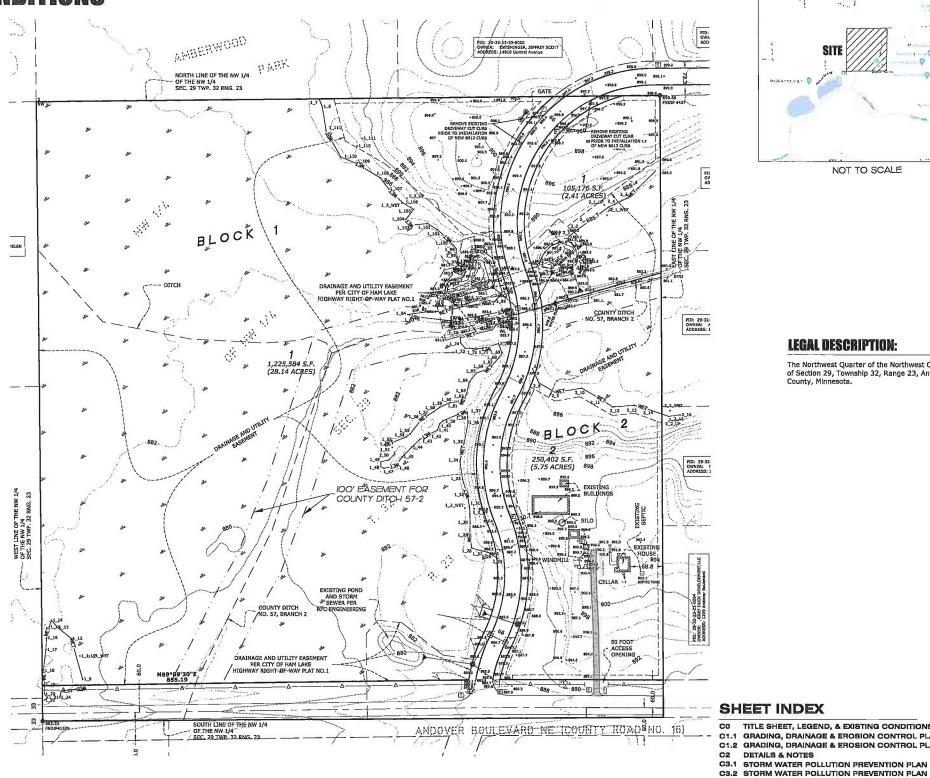
INSTALLATIONS SHALL CONFORM TO THE CITY STANDARD SPECIFICATIONS AND DETAIL PLATES.

ALL UTILITIES THAT WILL BE OWNED AND MAINTAINED BY THE CITY AFTER CONSTRUCTION SHALL BE BUILT TO CITY STANDARDS.

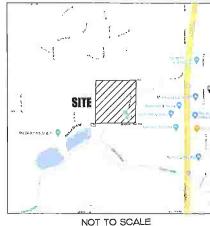
THE CONTRACTOR SHALL OBTAIN A RIGHT-OF-WAY PERMIT FROM THE CITY PRIOR TO ANY WORK

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

NOTIFY CITY A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.



### VICINITY MAP



### **LEGAL DESCRIPTION:**

The Northwest Quarter of the Northwest Quarter of Section 29, Township 32, Range 23, Anoka County, Minnesota.

M.Q.A. C.W.P.

CHCKD BY: PROJ. NO. M.Q.A. 2017 ORIGINAL DATE:

PREPARED FOR: GERALD MAGER



ENGINEERING, INC.

6778 LAKE DRIVE SUITE 110 LINO LAKES, MN 55014 PHONE: (651) 361-8210 FAX: (651) 361-8701

NORTH



SHEET INDEX

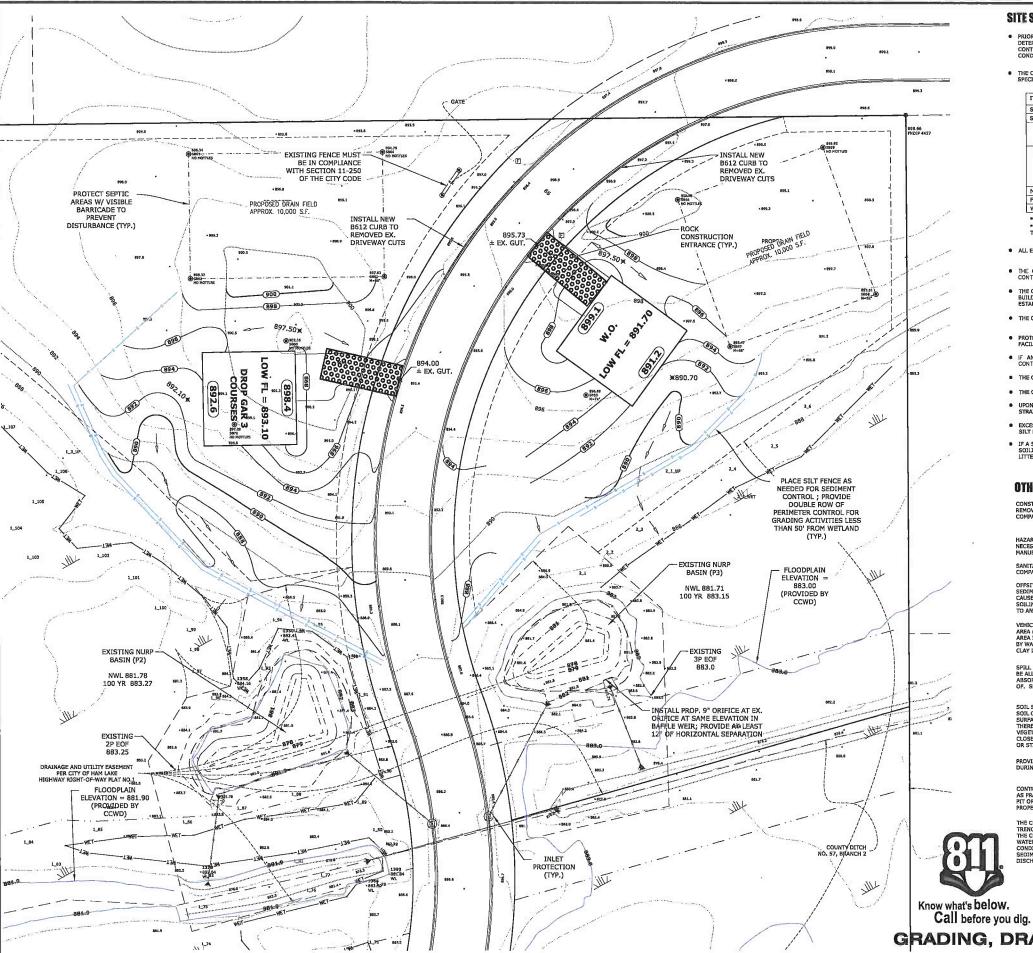
TITLE SHEET, LEGEND, & EXISTING CONDITIONS C1.1 GRADING, DRAINAGE & EROSION CONTROL PLAN

C1.2 GRADING, DRAINAGE & EROSION CONTROL PLAN (80-SCALE)

C2 DETAILS & NOTES

C3.1 STORM WATER POLLUTION PREVENTION PLAN

NOTE: THIS PLAN SET IS INTENDED TO ACCOMPANY THE PRELIMINARY PLAT SHEET(S), PROVIDED BY OTHERS.



### SITE SEQUENCING

- PRIOR TO ANY GRADING OPERATIONS, THE CONTRACTOR SHALL INSTALL ROCK CONSTRUCTION ENTRANCE (LOCATIONS TO BE
  DETERMINED COORDINATE WITH OWNER) AND PERIMETER SILT FENCE AS SHOWN ON PLAN. (CONTACT CITY TO INSPECT EROSION
  CONTROL MEASURES PRIOR TO GRADING OPERATIONS, IF NECESSARY.) ADDITIONAL SILT FENCE MAY BE NECESSARY IF LOCAL
  CONDITIONS REQUIRE.
- THE CONTRACTOR SHALL PROVIDE ALL SOD, SEED, MULCH AND FERTILIZER WHICH SHALL CONFORM WITH THE FOLLOWING MNDOT SPECIFICATIONS AS MODIFIED BELOW.

ITEM		MNDOT SPECIFICATION/NOTES			
SOD		3878			
SEED **	3876				
* FOR TURF ES	TABLISHMENT				
	OMMERCIAL TURF	MNDOT MIX 25-131 (220 LBS/ACRE)			
R	ESIDENTIAL TURF	MNDOT MIX 25-131 (120 LBS/ACRE)			
TEMPORARY	FALL COVER	MNDOT MIX 21-112 (100 LBS/ACRE)			
	SPRING/SUMMER	MNDOT MIX 21-111 (100 LBS/ACRE)			
SOIL	BUILDING COVER	MNDOT MIX 21-113 (110 LBS/ACRE)			
	1-2 YEARS COVER	MNDOT MIX 22-111 (30.5 LBS/ACRE)			
	2-5 YEARS COVER	MNDOT MIX 22-112 (40 LBS/ACRE)			
MULCH		3882 (TYPE 1 - DISC ANCHORED)			
FERTILIZER		3881			
WOOD FIBER BL	ANKET	3885 (CATEGORY 2)			

- MOW A MINIMUM OF ONCE PER 2 WEEKS
- \*\* SEEDED AREAS SHALL BE EITHER MULCHED OR COVERED BY FIBROUS BLANKETS TO PROTECT SEEDS AND LIMIT EROSION.
- ALL EXPOSED SOILS MUST HAVE TEMPORARY EROSION CONTROL PROTECTION OR PERMANENT COVER WITHIN SEVEN (7) DAYS,
- THE CONTRACTOR SHALL PAY SPECIAL ATTENTION TO ALL ADJACENT PROPERTY LINES AND MAKE SURE THE EROSION
  CONTROL PRACTICES INPLACE IN THOSE AREAS PREVENT MIGRATION OF SEDIMENT ONTO ADJACENT PROPERTIES.
- THE CONTRACTOR SHALL MAINTAIN SILT FENCE, INCLIDING THE REMOVAL OF ACCUMULATED SEDIMENT, THROUGH COMPLETION OF BUILDING CONSTRUCTION. SILT FENCE TO BE REMOVED ONLY AFTER COMPLETION OF BUILDING CONSTRUCTION AND UPON ESTABLISHMENT OF VEGETATION.
- THE CONTRACTOR SHALL PROVIDE WOOD FIBER BLANKET FOR ALL AREAS OF CONCENTRATED FLOW AND FOR ALL SLOPES 3:1 OR GREATER.
- PROTECT ALL STORM WATER MANAGEMENT FACILITIES FROM CONSTRUCTION RUN-OFF. CONTRACTOR TO INSTALL AND CONSTRUCT SAID FACILITIES ONCE SITE HAS BEEN STABILIZED.
- IF ANY SLOPES APPEAR TO BE FAILING, THE CONTRACTOR SHALL PROVIDE ADDITIONAL SILT FENCE, BIOROLLS AND EROSION CONTROL BLANKET AS NEEDED.
- THE CONTRACTOR SHALL FINAL GRADE SWALE AREAS UPON STABILIZATION OF UPSTREAM AREAS.
- THE CONTRACTOR SHALL SOD ALL DISTURBED DRAINAGE AREAS, INCLUDING SWALES & OVERFLOWS.
- UPON GRADING COMPLETION THE CONTRACTOR SHALL PROVIDE NATIVE TOPSOIL WITH SQD OR SEED, AND MULCH ANCHORED WITH A STRAIGHT SET DISC WITHIN 48 HOURS OF FINAL GRADING.
- EXCESS SOIL SHOULD BE TREATED LIKE OTHER EXPOSED SOIL AND STABILIZED WITHIN 72 HOURS. ANY SOIL STOCKPILES ARE TO HAVE SILT FENCE PLACED ON DOWNSTREAM SIDES.
- IF A STREET, ALLEY, SIDEWALK OR OTHER PUBLIC PLACE SHOULD BECOME SOILED OR LITTERED, THE CONTRACTOR SHALL CAUSE SUCH SOILING OR LITTERING TO BE CLEARED UP SY WEEPING NOT LATER THAN THE END OF THE WORKING DAY IN WHICH SUCH SOILING OR LITTERING SHALL HAVE OCCURRED OR SEEN OBSERVED.

### **OTHER POLLUTION CONTROL MEASURES**

CONSTRUCTION WASTE MATERIALS - ALL WASTE MATERIALS GENERATED AS A RESULT OF SITE CONSTRUCTION SHALL BE COLLECTED AND REMOVED ACCORDING TO ALL LOCAL AND/OR STATE WASTE MANAGEMENT REGULATIONS BY A LICENSED SOLIO WASTE MANAGEMENT COMPANY. THE CONTRACTOR WILL ENSURE THAT ALL SITE PERSONNEL ARE INSTRUCTED IN THESE PRACTICAL.

HAZARDOUS WASTES - ALL HAZARDOUS WASTE MATERIALS SHALL BE STORED PROPERLY TO PREVENT SPILLS AND VANDALISM. WHEN NECESSARY, HAZARDOUS WASTES WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL AND/OR STATE REGULATION OR BY THE MANUFACTION.

SANITARY WASTE - ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS BY A LOCAL, LICENSED WATER MANAGEMENT COMPANY, AS REQUIRED BY LOCAL REGULATION.

OFFSITE VEHICLE TRACKING - A ROCK CONSTRUCTION ENTRANCE HAS BEEN PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. IF A STREET, ALLEY, SIDEWALK OR OTHER PUBLIC PLACE SHOULD BECOME SOILED OR LITTERED, THE CONTRACTOR SHALL CAUSE SUCH SOILING OR LITTERING TO BE CLEANED UP BY SWEEPING NOT LATER THAN THE END OF THE WORKING DAY IN WHICH SUCH SOILING OR LITTERING SHALL HAVE OCCURRED OR BEEN OBSERVED. OUMP TRUCKS HAULING LOOSE MATERIALS (SAND, TOPSOIL, ETC.) TO AND/OR FROM THE SITE SHALL BE COVERED WITH A TRAPAULIN.

VEHICLE CLEANING - NO ENGINE DEGREASING IS ALLOWED ON-SITE. EXTERNAL WASHING OF VEHICLES TO BE CONFINED TO A DEFINED AREA ("BONE YARD") ON-SITE. CONTRACTOR TO PROVIDE DESIGNATED TRUCK WASHOUT AREA WITH APPROPRIATE SIGNAGE. WASHOUT AREA IS TO BE A MINIMUM OF 50° FROM DITCHES, PONDS, OR OTHER STORMWATER FACTURES. ALL LIQUE OSLID WASTE GENERATED BY WASHOUT OPERATIONS MUST BE CONTAINED IN A LEAK-PROOF CONTAINMENT FACILITY OR IMPERMEABLE LINER (E.G. COMPACTED CLAY LINER, IMPERMEABLE GO-MEMBARIA) AND DISPOSED OF PROPERLY.

SPILL PREVENTION AND CONTROL - ALL VEHICLES WILL BE CHECKED FOR LEAKING OIL AND FLUIDS. VEHICLES LEAKING FLUIDS WILL NOT BE ALLOWED ON-SITE. SPILL KITS WILL BE STORED ON-SITE AND ALL SPILLS WILL BE CLEARED UP IMMEDIATELY DISCOVERY. SPENT ABSORBERT MATERIALS AND RAGE WILL BE HAULED OF-SITE IMMEDIATELY AFTER THE SPILL IS CLEAVED UP AND PROPERTY DISPOSED OF. SPILL PREVENTION AND CONTROL MEASURES SHALL BE IMPLEMENTED ONCE CONSTRUCTION BEGINS.

SOIL STOCKPILES - INSTALL SILT FENCE OR OTHER EFFECTIVE SEDIMENT CONTROLS AROUND ALL TEMPORARY SOIL STOCKPILES, LOCATE SOIL OR DIRT STOCKPILES SUCH THAT DOWNSLOPE DRAINAGE LENGTH IS NO LESS THAN 8 M (25 FEET) FROM THE TOE OF THE PILE TO A SURFACE WATER, INCLUDING STORMWATER CONVEYANCES SUCH AS CURB AND GUTTER SYSTEMS, OR CONDUITS AND DITCHES UNLESS THERE IS A SWPASS IN PLACE FOR THE STORMWATER. IF REMAINING FOR MORE THAN 7 DAYS, STABLIZE THE STOCKPILES BY MULCHING, VEGETATIVE COVER, TAPPS, OR OTHER MEANS, DURING STREET REPAIR, COVER CONSTRUCTION SOIL OR DIRT STOCKPILES LOCATED LOCATED LOCATED LOCATED LOCATED LOCATED STORM BY (25 FEET) TO A ROADWAY OR DRAINAGE CHANNEL WITH TARPS, AND PROTECT STORM SEWER INLETS WITH SILT SOCKS OR STAKED SILT FENCE.

PROVIDE WIMCO (OR APPROVED EQUAL) FOR INLET PROTECTION AT ALL EXISTING STORM SEWER INLETS THAT WILL RECEIVE RUN-OFF DURING CONSTRUCTION. INLET PROTECTION TO REMAIN IN-PLACE UNTIL AT LEAST 70% OF SITE VEGETATION HAS BEEN ESTABLISHED.

CONTRACTOR TO PROVIDE DESIGNATED CONCRETE TRUCK WASHOUT AREA WITH APPROPRIATE SIGNAGE. KEEP WASHOUT AREAS AS FAR AS PRACTICAL FROM STORM DRAINS, DITCHES AND PONDS. DO NOT ALLOW RUN-OFF FROM THIS AREA BY CONSTRUCTING A TEMPORARY PIT OR BERNED AREA LARGE ENOUGH FOR LIQUID AND SOLID WASTE. AFTER WASTE CONCRETE IS SET, BREAK-UP AND DISPOSE OF PROPERLY.

THE CONTRACTOR MUST DISCHARGE TURBIO OR SEDIMENT-LADEN WATERS RELATED TO DEWATERING (E.G., PUMPED DISCHARGES, TRENCH/DITCH CUTS FOR DRAINAGE) TO A TEMPORARY OR PERMANENT SEDIMENTATION BASIN ON THE PROJECT SITE UNLESS INFEASIBLE. THE CONTRACTOR MAY DISCHARGE FROM THE TEMPORARY OR PERMANENT SEDIMENTATION BASINS TO SURFACE WATERS IF THE BASIN WATER HAS BEEN OBTAINED IN THE BASIN AND THAT NUISANCE CONDITIONS (SEE MINN. R., 7050.0210, SUBP. 2) WILL NOT RESULT FROM THE DISCHARGE. IF THE WATER CANNOT BE DISCHARGED TO A SEDIMENTATION BASIN PRIOR TO ENTERING THE SURFACE WATER, IT MUST BE TREATED WITH THE APPROPRIATE BMPS, SUCH THAT THE DISCHARGE DOES NOT ADVERSELY AFFECT THE RECEIVING WATER OR DOWNSTREAM PROPERTIES.

GRADING, DRAINAGE, AND EROSION CONTROL PLAN MAGERS MEADOWS

DRAWN 8Y: DESIGN BY: M.Q.A. C.W.P.
CHCKD BY: PROJ. NO. M.Q.A. 2017

ORIGINAL DATE: FEBRUARY 9, 2022

DATE REVISION DESCRIPTION
O414/22 REVISED HOUSE GRADES & ELEVATIONS
GRADEZ ADDRESSED CITY COMMENTS DATED 41/8/22
GS1/2/22 MODIFIED BAPPLE WEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COMMENT OF THE VEIR TO ADD ORIFICE
AS A COM

here welly that this plan was prepared by me of sogt supervision and that I am a dul. I get supervision and that I am a dul. I get supervision and that I am a dul. I get supervision and that I am a dul. I get supervision and that I get supervision and the supervisio

AM LAKE, MINNESOTA

REPARED FOR:



SITE PLANNING & ENGINEERING PLOWE ENGINEERING, INC.

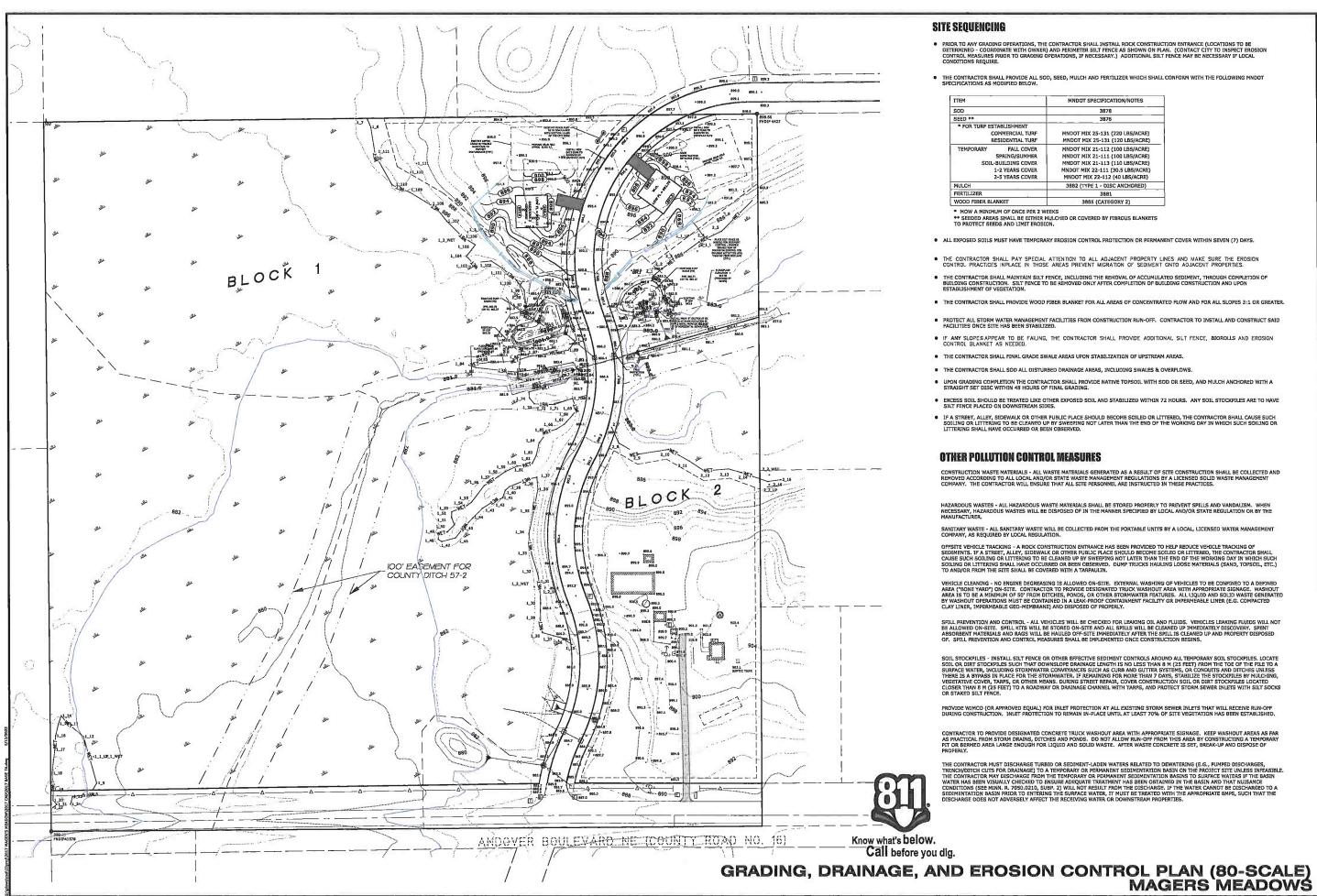
6776 LAKE DRIVE SUITE 110 LINO LAKES, MN 55014 PHONE: (651) 361-8210 FAX: (851) 381-8701

NORTH



1 INCH = 30 FEET

**C1.1** 



### SITE SEQUENCING

- PRIOR TO ANY GRADING OPERATIONS, THE CONTRACTOR SHALL INSTALL ROCK CONSTRUCTION ENTRANCE (LOCATIONS TO BE
  DETERMINED COORDINATE WITH OWNER) AND PREIMETER SILT FENCE AS SHOWN ON PLAN. (CONTRACT CITY TO INSPECT EROSI
  CONTROL MEASURES PRIOR TO GRADING OPERATIONS, IF NECESSARY IS ADDITIONAL SILT FENCE MAY BE NECESSARY IF LOCAL
- THE CONTRACTOR SHALL PROVIDE ALL SOD, SEED, MULCH AND FERTILIZER WHICH SHALL CONFORM WITH THE FOLLOWING MNDOT SPECIFICATIONS AS MODIFIED BELOW.

TTEM SOD		MNDOT SPECIFICATION/NOTES 3878		
* FOR TURF ES	TABLISHMENT			
C	OMMERCIAL TURF	MNDOT MIX 25-131 (220 LBS/ACRE)		
R	ESIDENTIAL TURF	MNDOT MIX 25-131 (120 LBS/ACRE)		
TEMPORARY	FALL COVER	MNDOT MIX 21-112 (100 LBS/ACRE)		
	SPRING/SUMMER	MNDOT MIX 21-111 (100 LBS/ACRE)		
SOIL	BUILDING COVER	MNDOT MIX 21-113 (110 LBS/ACRE)		
	1-2 YEARS COVER	MNDOT MIX 22-111 (30.5 LBS/ACRE)		
	2-5 YEARS COVER	MNDOT MIX 22-112 (40 LBS/ACRE)		
MULCH		3882 (TYPE 1 - DISC ANCHORED)		
FERTILIZER		3881		
WOOD FIBER BL	ANKET	3885 (CATEGORY 2)		

- \* MOW A MINIMUM OF ONCE PER 2 WEEKS
  \*\* SEEDED AREAS SHALL BE EITHER MULCHED OR COVERED BY FIBROUS BLANKETS
  TO PROTECT SEEDS AND LIMIT EROSION.
- ALL EXPOSED SOILS MUST HAVE TEMPORARY EROSION CONTROL PROTECTION OR PERMANENT COVER WITHIN SEVEN (7) DAYS.

- THE CONTRACTOR SHALL PROVIDE WOOD FIBER BLANKET FOR ALL AREAS OF CONCENTRATED FLOW AND FOR ALL SLOPES 3:1 OR GREATER
- PROTECT ALL STORM WATER MANAGEMENT FACILITIES FROM CONSTRUCTION RUN-OFF. CONTRACTOR TO INSTALL AND CONSTRUCT SAID FACILITIES ONCE SITE HAS BEEN STABILIZED.
- IF ANY SLOPES APPEAR TO BE FAILING, THE CONTRACTOR SHALL PROVIDE ADDITIONAL SILT FENCE, BIOROLLS AND EROSION CONTROL BLANKET AS NEEDED.
- . THE CONTRACTOR SHALL FINAL GRADE SWALE AREAS UPON STABILIZATION OF UPSTREAM AREAS

- EXCESS SOIL SHOULD BE TREATED LIKE OTHER EXPOSED SOIL AND STABILIZED WITHIN 72 HOURS. ANY SOIL STOCKPILES ARE TO HAVE SILT FENCE PLACED ON DOWNSTREAM SIDES.

### **OTHER POLLUTION CONTROL MEASURES**

CONSTRUCTION WASTE MATERIALS - ALL WASTE MATERIALS GENERATED AS A RESULT OF SITE CONSTRUCTION SHALL BE COLLECTED AND REMOVED ACCORDING TO ALL LOCAL AND/OR STATE WASTE MANAGEMENT REGULATIONS BY A LICENSED SOLID WASTE MANAGEMENT COMPANY. THE CONTRACTOR WILL ENSURE THAT ALL SITE PERSONNEL ARE INSTRUCTED IN THESE PRACTICAL THE PROPRIET AND AND ADDRESS OF THE CONTRACTOR WILL ENSURE THAT ALL SITE PERSONNEL ARE

HAZARDOUS WASTES - ALL HAZARDOUS WASTE MATERIALS SHALL BE STORED PROPERLY TO PREVENT SPILLS AND VANDALISM. WHEN NECESSARY, HAZARDOUS WASTES WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL AND/OR STATE REGULATION OR BY THE

SANITARY WASTE - ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS BY A LOCAL, LICENSED WATER MANAGEMENT COMPANY, AS REQUIRED BY LOCAL REGULATION.

OFFSITE VEHICLE TRACKING - A ROCK CONSTRUCTION ENTRANCE HAS BEEN PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. IF A STREET, ALLEY, SIDEMALK OR OTHER PUBLIC PLACE SHOULD BECOME SOILED OR LITTERED, THE CONTRACTOR SHALL CAUSE SUCH ASOILING OR LITTERING TO BE CLEANED UP BY SWEEPING NOT LATER THAN THE END OF THE WORKING DAY IN WHICH SUCH SOILING OR LITTERING SHALL HAVE OCCURRED OR BEEN OBSERVED. DUMP TRUCKS HAULING LOOSE MATERIALS (SAND, TOPSOIL, ETC.) TO AND/OR FROM THE SITE SHALL BE COVERED WITH A TARPAULIN.

VEHICLE CLEANING - NO ENGINE DEGREASING IS ALLOWED ON-SITE. EXTERNAL WASHING OF VEHICLES TO BE CONFINED TO A DEFINED AREA ("BONE YARD") ON-SITE. CONTRACTOR TO PROVIDE DESIGNATED TRUCK WASHOUT AREA WITH APPROPRIATE SIGNAGE. WASHOUT AREA IS TO BE A MINIMUM OF SO'F FROM DITCHES, PONDS, OR OTHER STORMWATER FEATURES. ALL LIQUID AND SOLD WASTE GENERATED BY WASHOUT OPERATIONS MUST BE CONTAINED IN A LEAK-PROOF CONTAINMENT FACILITY OR IMPERMEABLE LINER (E.G. COMPACTED CLAY LINER, IMPERMEABLE GO-MEMBRARIE) AND DISPOSED OF PROPERLY.

SPILL PREVENTION AND CONTROL - ALL VEHICLES WILL BE CHECKED FOR LEAKING OIL AND FLUIDS. VEHICLES LEAKING FLUIDS WILL NOT BE ALLOWED ON-SITE. SPILL KITS WILL BE STORED ON-SITE AND ALL SPILLS WILL BE CLEANED UP IMMEDIATELY DISCOVERY. SPENT ABSORBENT MATERIALS AND AGGS WILL BE HAULED OFF-SITE IMMEDIATELY AFTER THE SPILL IS CLEANED UP AND PROPERTY DISPOSED OF. SPILL PREVENTION AND CONTROL MEASURES SHALL BE IMPLEMENTED ONCE CONSTRUCTION BEGINS.

SOIL STOCKPILES - INSTALL SILT FENCE OR OTHER EFFECTIVE SEDIMENT CONTROLS AROUND ALL TEMPORARY SOIL STOCKPILES, LOCATE SOIL OR DIRT STOCKPILES SUCH THAT DOWNSLOPE DRAINAGE LENGTH IS NO LESS THAN 8 M (25 FEET) FROM THE TOE OF THE PILE TO A SURFACE WATER, INCLUDING STORMWATER CONVEYANCES SUCH AS CURB AND GUTTER SYSTEMS, OR CONDUITS AND DITCHES SYSTEMS. DIRENGS TEMPER TERPAIR, COVER CONSTRUCTION SOIL OR DIRT STOCKPILES LOCATED LOSER THAN 8 M (25 FEET) TO A ROADWAY OR DRAINAGE CHANNEL WITH TARPS, AND PROTECT STORM SEWER INLETS WITH SILT SOCKS ONE STANDERS OF THE STOCKPILES LOCATED.

CONTRACTOR TO PROVIDE DESIGNATED CONCRETE TRUCK WASHOUT AREA WITH APPROPRIATE SIGNAGE. KEEP WASHOUT AREAS AS FAR AS FRACTICAL FROM STORM DRAINS, DITCHES AND PONDS. DO NOT ALLOW RUN-DOF FROM THIS AREA BY CONSTRUCTION A TEMPORARY FOR TOR REPRENDED AREA LARGE ENOUGH FOR LIQUID AND SOLD WASTE. AFTER WASTE CONCRETE IS SET, BEAK-UP AND DISPOSE OF

THE CONTRACTOR MUST DISCHARGE TURBID OR SEDIMENT-LADEN WATERS RELATED TO DEWATERING (E.G., PUMPED DISCHARGES, TRENCH/DITCH CUTS FOR DRAINAGE) TO A TEMPORARY OR PERMANENT SEDIMENTATION BASIN ON THE PROJECT SITE UNLESS INFEASIBLE. THE CONTRACTOR MAY DISCHARGE FROM THE TEMPORARY OR PERMANENT SEDIMENTATION BASINS TO SURPACE WATERS IF THE BASIN WATER HAS BEEN OBTAINED IN THE BASIN AND THAT NUISANCE CONDITIONS (SEE MINN. R. 7050.0210, SUBP. 2) WILL NOT RESULT FROM THE DISCHARGE. IF THE WATER CANNOT BE DISCHARGED TO A SEDIMENTATION BASIN PRIOR TO ENTERING THE SURFACE WATER, IT MUST BE TREATED WITH THE APPROPRIATE BMPS, SUCH THAT THE DISCHARGE ODES NOT ADVERSELY AFFECT THE RECEIVING WATER OR DOWNSTREAM PROPERTIES.

CHCKD BY: M.Q.A. 2017

ORIGINAL DATE:

FEBRUARY 9, 2022

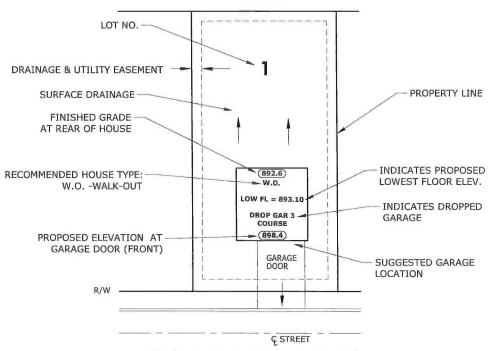




ENGINEERING, INC. 6776 LAKE DRIVE SUITE 110 LINO LAKES, MN 55014

PHONE: (651) 361-8210 FAX: (651) 361-8701 NORTH

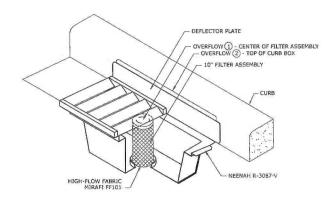




# 2" X 2" WOOD OR STEEL POST 7'-7" O.C. WIRE MESH REINFORCEMENT, STD. FIELD FENCE. MIN. 30" HIGH, MAX. MESH SPACING OF 6" AND MIN. 14-1/2" CAUGE WIRE IS OPTIONAL. GEOTEXTILE FILTER FABRIC - OVERLAP 6" AND FASTEN AT 2" INTERVALS. LAY FABRIC ANCHORAGE TRENCH. BACKPILL TRENCH WITH TAMPED NATURAL SOIL. NOTES: 1) WIRE MESH IS NOT REQUIRED. 2) CONTRACTOR IS RESPONSIBLE FOR REMONAL OF ALL EROSION CONTROL MATERIALS FOLLOWING TURF ESTABLISHNENT.

SILT FENCE

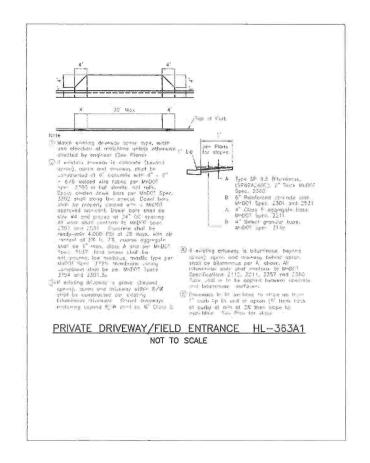
NOT TO SCALE

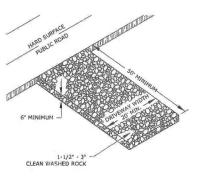


### WIMCO INLET PROTECTION

NOT TO SCALE

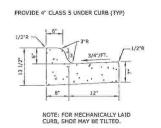
### TYPICAL LOT LAYOUT





ROCK CONSTRUCTION ENTRANCE

NOT TO SCALE



B612 CONCRETE CURB & GUTTER

T TO SCALE



I herr is sartify that this plan was prepared by me or services supervision and that I am a duy L. I services Engineer under the limit of the services Engineer under the limit of the services Engineers and Services Serv

HAM LAKE, MINNESOTA

MAGERS MEADOWS

PREPARED FOR: GERALD MAGER



SITE PLANNING & ENGINEERING

ENGINEERING, INC. 6776 LAKE DRIVE SUITE 110 LINO LAKES, MN 55014 PHONE: (651) 361-8210 FAX. (651) 361-8701 4.2 PERMITTEES MUST SUBMIT A NOT WITHIN 30 DAYS AFTER ALL TERMINATION CONDITIONS LISTED IN SECTION 13 ARE COMPLETE, [MINN. R. 7090]

COMPLETE, IMMINI, JOSU

4.4 PERMITTEES MUST SUBMIT A NOT WITHIN 30 DAYS AFTER SELLING OR OTHERWISE LEGALLY TRANSFERRING THE ENTIRE SITE, INCLUDING PERMIT RESPONSIBILITY FOR ROADS (E.G., STREET SWEEPING) AND STORMWATER INFRASTRUCTURE 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 NOT. [MINN R 7080]

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 OR SALE WILL RESULT IN LAND DISTURBING ACTIVITIES OF ONE (1) OR MORE ACRES IN SIZE. IMININ. 7, 1209.

4.5 PERMITTEES MAY TERMINATE COVERAGE UPON MPCA APPROVAL AFTER SUBMITTING INFORMATION DOCUMENTING THE OWNER CANCELED THE PROJECT, [MINN: R. 7090]

### 5.1 STORMWATER POLLUTION PREVENTION PLAN (SWPPP) CONTENT [MINN, R. 7090]

5.3 THE SWPPP MUST INCORPORATE SPECIFIC BEST MANAGEMENT PRACTICES (BMP) USED TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT, MINN. R. 7990)
5.4 THE SWPPP MUST INCLUDE A MARRATURE DESCRIBING THE TIMING FOR INSTALLATION OF ALL EROSION PREVENTION AS SEDIMENT CONTROL BMPs AND A DESCRIPTION OF THE PERMANENT STORMWATER TREATMENT SYSTEMS. [MINN. R. 7090] 5.5 THE SWPPP MUST INCLUDE THE LOCATION AND TYPE OF ALL TEMPORARY AND PERMANENT EROSION PREVENTION AND SEDIMENT CONTROL BMPS ALONG WITH PROCEDURES USED TO ESTABLISH ADDITIONAL TEMPORARY BMPS AS NECESSAR FOR THE SITE CONDITIONS DURING CONSTRUCTION, STANDARD DETAILS AND/OR SPECIFICATIONS FOR BMPS MUST BE INCLUDED IN THE FINAL PLANS AND SPECIFICATIONS FOR THE PROJECT, MINN, R. 70901

5.6 THE SWPPP MUST INCLUDE THE CALCULATIONS AND OTHER INFORMATION USED FOR THE DESIGN OF TEM SEDIMENT BASINS AND ANY OF THE PERMANENT STORMWATER TREATMENT SYSTEMS REQUIRED IN SECTION 15, IMINN. R.

5.7 THE SWPPP MUST INCLUDE ESTIMATED QUANTITIES ANTICIPATED AT THE START OF THE PROJECT FOR THE LIFE OF THE PROJECT FOR ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPS (E.G., LINEAR FEET OF SILT FENCE OR SQUARE PEET OF EROSION CONTROL BLANCET, IMMN. R. 7090)

5.8 THE SWPPP MUST INCLUDE THE NUMBER OF ACRES OF IMPERVIOUS SURFACE FOR BOTH PRE- AND POST-CONSTRUCTION

5.9 THE SWPPP MUST INCLUDE A SITE MAP WITH EXISTING AND FINAL GRADES INCLUDING DRAINAGE AREA BOUNDARII TIONS OF FLOW AND ALL DISCHARGE POINTS WHERE STORMWATER IS LEAVING THE SITE OR ENTERING A SURF

THE SITE MAP MUST INDICATE THE AREAS OF STEEP SLOPES. THE SITE MAP MUST ALSO INCLUDE IMPERVIOUS SURFACES SOIL TYPES AND LOCATIONS OF POTENTIAL POLLUTANT-GENERATING ACTIVITIES AS IDENTIFIED IN SECTION 12. IMINN. R. 70901

5.10 THE SWPPP MUST INCLUDE A MAP OF ALL SURFACE WATERS, EXISTING WETLANDS, AND STORMWATER PONDS OR BASINS THAT CAN BE IDENTIFIED ON MAPS SUCH AS UNITED STATES GEOLOGICAL SURVEY 7.5 MINUTE QUADRANGLE MAPS, THE NATIONAL WETLAND INVENTORY MAP OR EQUIVALENT MAPS AND ARE WITHIN ONE MILE (AERIAL RADIUS MEASUREMENT, FROM THE PROJECT BOUNDARIES THAT WILL RECEIVE STORMWATER FROM THE CONSTRUCTION SITE, DURING OR AFTER CONSTRUCTION. THE SWPPP MUST IDENTIFY IF THE SURFACE WATERS ARE SPECIAL OR IMPAIRED WATERS (MINN, R, 7090) 5.11 THE SWPPP MUST INCLUDE A SITE MAP SHOWING CONSTRUCTION ACTIVITY AREAS THAT ARE ADJACENT TO AND DRAIN TO PUBLIC WATERS FOR WHICH THE DIRK HAS PROMULGATED WORK IN WATER RESTRICTIONS' DURING SPECIFIED FISH SPAWMING TIME FRAMES (RIMN). R 7989]

5.12 PERMITTEES MUST IDENTIFY LOCATIONS OF 50' BUFFER ZONES AS REQUIRED IN ITEM 9.17 AND 100' PERMANENT BUFFER ZONES AS REQUIRED IN ITEM 23.11, ON PLAN SHEETS IN THE SWPPP (MINN, R, 7090)

5.13 IF PERMITTEES DETERMINE COMPLIANCE WITH THE FOLLOWING REQUIREMENTS IS INFEASIBLE. THEY MUST DOCUMENT

E. TEMPORARY SEDIMENT BASIN AS DESCRIBED IN SECTION 14; AND

b. FOR LINEAR PROJECTS, IF THE PERMANENT STORMWATER TREATMENT SYSTEM CANNOT BE CONSTRUCTED WITHIN THE RIGHT-OF-WAY. A REASONABLE ATTEMPT MUST BE WANDET TO BITAN ADDITIONAL RIGHT-OF-WAY (ITEM 15.9), AND C. BUFFER ZONDES AS DESCRIPTED IN ITEM ST. AND ITEM 23.11, JMINN. R. 7080)

5.14 IF PERMITTEES DETERMINE THAT A TEMPORARY SEDIMENT BASIN IS INFEASIBLE AS DESCRIBED IN ITEM 14.10. THE WPPP MUST DESCRIBE THE ALTERNATIVE BMPS USED. [MINN. R. 7090]

5.15 WHERE SYSTEMS CANNOT MEET THE FULL VOLUME REDUCTION REQUIREMENT ON SITE, (E.G., THE SITE HAS INFILTRATION PROHIBITIONS, SEE ITEM 16.14 THROUGH ITEM 16.21) THE PERMITTEE MUST DOCUMENT THE REASONS IN THE SWPP IMINN. R. 70901

5.16 THE SWPPP MUST INCLUDE ANY STORMWATER MITIGATION MEASURES PROPOSED TO BE PART OF THE FINAL PROJECT IN AWY ENVIRONMENTAL REVIEW DOCUMENT, ENDANGERED SPECIES REVIEW, ARCHEOLOGICAL OR OTHER REQUIRED LOCAL, STATE OR FEDERAL REVIEW CONDUCTED FOR THE PROJECT. FOR PURPOSES OF THIS PERMIT, MITIGATION MEASURES MEANS ACTIONS NECESSARY TO AVOID, MINIMIZE, OR MITIGATE FOR IMPACTS RELATED TO EROSION PREVENTION, SE CONTROL, THE PERMANENT STORMWATER TREATMENT SYSTEM, POLLUTION PREVENTION MANAGEMENT MEASURES AND DISCHARGES ASSOCIATED WITH THE PROJECT'S CONSTRUCTION ACTIVITY. [MINN. R. 7090]

5.17 THE SWPPP MUST DESCRIBE THE METHODS USED FOR PERMANENT COVER OF ALL EXPOSED SOIL AREAS, [MINN, R. 7090] 5.18 PERMITTEES MUST IDENTIFY THE LOCATIONS OF AREAS WHERE CONSTRUCTION WILL BE PHASED TO MINIMIZE THE

DURATION OF EXPOSED SOIL AREAS IN THE SWPPP. [MINN. R. 7090] 5.19 FOR PROJECTS WITH A DISCHARGE POINT ON THE PROJECT WITHIN ONE (1) MILE (AERIAL RADIUS MEASUREMENT) OF AND WHICH FLOWS TO AN IMPAIRED WATER, PERMITTEES MUST IDENTIFY THE IMPAIRED WATER(S), AND ANY UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (USEPA)-APPROVED TOTAL MAXIMUM DAILY LOAD (TMDL) FOR THE POLLUTANT(S) OR STRESSOR(S) DESCRIBED IN ITEM 23.7. PERMITTEES IDENTIFICATION MUST INCLUDE THOSE THOIS APPROVED AT ANY TIME PRIOR TO PERMIT APPLICATION SUBMITTAL AND ARE STILL IN EFFECT. (MINN. R. 7090)

5.20 PERMITTEES MUST DOCUMENT IN THE SWPPP, ALL TRAINED INDIVIDUALS IDENTIFIED IN ITEM 21.2. DOCUMENTATION

NAMES OF PERSONNEL REQUIRED TO BE TRAINED; AND

DATES OF TRAINING AND NAME OF INSTRUCTOR(S) AND ENTITY PROVIDING TRAINING; AND CONTENT OF TRAINING COURSE

IF PERMITTEES DO NOT KNOW THE NAMES OF THE INDIVIDUALS AT THE TIME OF APPLICATION, THE PERMITTEES MUST

ENSURE THEY DOCUMENT TRAINING BEFORE CONSTRUCTION ACTIVITY COMMENCES, IMINN, R. 70901 5.21 THE SWPPP MUST IDENTIFY A PERSON KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL BMPS WHO WILL COORDINATE WITH ALL CONTRACTORS, SUBCONTRACTORS, AND OPERATORS ON-SITE TO OVERSEE THE IMPLEMENTATION OF THE SWPPP. [MINN. R 7090]

5.22 THE SWPPP MUST DESCRIBE ANY SPECIFIC CHEMICALS AND CHEMICAL TREATMENT SYSTEMS USED FOR ENHANCING THE SEDIMENTATION PROCESS AND HOW IT ACHIEVES COMPLIANCE WITH ITEM 9.18. [MINN. R. 7090]

5.23 THE SWPPP MUST IDENTIFY THE PERSON(S), ORGANIZATIONS. OR ENTITIES RESPONSIBLE FOR LONG-TERM OPERATION AND MAINTENANCE OF PERMANENT STORMWATER TREATMENT SYSTEMS, [MINN. R. 7090]

5.24 THE SWPPP MUST DESCRIBE METHODS TO MINIMIZE SOIL COMPACTION AND PRESERVE TOPSOIL, MINIMIZING SOIL COMPACTION IS NOT REQUIRED WHERE THE FUNCTION OF A SPECIFIC AREA DICTATES COMPACTION, [MINN, R, 7080]

5.25 THE SWPPP MUST INCLUDE ANY SITE ASSESSMENTS FOR GROUNDWATER OR SOIL CONTAMINATION REQUIRED IN ITEM

5.26 THE SWPPP MUST ACCOUNT FOR THE FOLLOWING FACTORS IN DESIGNING TEMPORARY EROSION PREVENTION AND SEDIMENT CONTROL BMPS:

THE EXPECTED AMOUNT, FREQUENCY, INTENSITY, AND DURATION OF PRECIPITATION; AND

THE NATURE OF STORMWATER RUNOFF AND RUN-ON AT THE SITE, INCLUDING FACTORS SUCH AS EXPECTED FLOW FROM

IMPERVIOUS SURFACES, SLOPES, AND SITE DRAINAGE FEATURES; AND

c. THE STORMWATER VOLUME, VELOCITY, AND PEAR FLOWARTES TO MINIMIZE DISCHARGE OF POLLUTANTS IN STORMWATER AND TO MINIMIZE CHANNEL AND STREAMBANK EROSION AND SOUR IN THE IMMEDIATE VICINITY OF DISCHARGE POINTS; AND

THE RANGE OF SOIL PARTICLES SIZES EXPECTED TO BE PRESENT, I MINN, 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 SWIPPP CHANGES. CHANGES INVOLVING THE USE OF A LES STRINGERT BUP MUST INCLUDE A JUSTIFICATION DESCRIBING HOW THE OFFICE OF THE STREET OF

6.3 PERMITTEES MUST AMEND THE SWPPP TO INCLUDE ADDITIONAL OR MODIFIED 8MPS AS NECESSARY TO CORRECT PROBLEMS IDENTIFIED OR ADDRESS SITUATIONS WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERA MAINTENANCE, WEATHER OR SEASONAL CONDITIONS HAVING A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUT SURFACE WATERS OR GROUNDWATER, IMINN. R. 7080]

SUMPALE WALERS UNG GROUNDWATER, MINN. R. 7090]

6 A 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, USERS OR MINCE AND THE SWPPP IS NOT EFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINNEZING THE DISCHARGE OF POLLU AND STO SUFFACE WATERS OR GROUNDWATER OF THE DISCHARGES ARE CAUSING WATER DUALITY SANDARDE SCEEDANCES (E.G., NUERACE CONDITIONS AS DEFINED IN MINN. R. 7050.0210, SUBP. 2) OR THE SWPPP IS NOT CONSISTENT WITH THE OBJECTIVES OF A USERA APPROVED THIS. [MIN. R. 7050.0210]

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

7.2 PERMITTEES MUST SELECT, INSTALL, AND MAINTAIN THE BMPS IDENTIFIED IN THE SWPPP AND IN THIS PERMIT IN AN APPROPRIATE AND FUNCTIONAL MANNER AND IN ACCORDANCE WITH RELEVANT MANUFACTURER SPECIFICATIONS AND ACCEPTED ENGINEERING PRACTICES, IMMN. 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, IMINN, R. 70901 PERMITTEES MUST MINIMIZE THE NEED FOR DISTURBANCE OF PORTIONS OF THE PROJECT WITH STEEP SLOPES WHEN EP SLOPES MUST BE DISTURBED, PERMITTEES MINIST USE TECHNIQUES SUCH AS PHASING AND STABILIZATION PRACTICES (GNEED FOR STEEP SLOPES (E.G., SLOPE DRAINING AND TERRACING), [MININ R 7509]

8.4 PERMITTEES MUST STABILIZE ALL EXPOSED SOIL AREAS, INCLUDING STOCKPILES, STABILIZATION MUST BE INITIA IMMEDIATELY TO LIMIT SOIL EROSION WHEN CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASE. IMMEDIATELY TO LIMIT SOIL EROSION WHEN CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED OF A PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 7 CALENDRA DAYS, STABILIZATION MUST BE COMPLETED NO LATER THAN 7 CALENDRA DAYS AFTER THE CONSTRUCTION ACTIVITY HAS CEASED. STABILIZATION IS NO REQUIRED ON CONSTRUCTED DASE COMPONENTS OF RODAS, PARKING LOTS AND SIMILAR SURFACES, STADILIZATION IS NO REQUIRED ON TEMPORARY STOCKPILES WITHOUT SIGNIFICANT SILT, CLAY OR ORGANIC COMPONENTS (F. G., CLEAN AGGREGATE STOCKPILES, DEMOLITION CONGRETE STOCKPILES, SAND STOCKPILES) BUT PERMITTEES MUST PROVIDE SEDIMENT CONTROLS AT THE BASE OF THE STOCKPILE. [MINN. R. 7090]

8.5 FOR PUBLIC WATERS THAT THE MINNESOTA DNR HAS PROMULGATED "WORK IN WATER RESTRICTIONS" DURING SPECIFIED FISH SPAWNING TIME FRAMES, PERMITTEES MUST COMPLETE STABILIZATION 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. 7069]

B.6 PERMITTEES MUST STABILIZE THE NORMAL WETTED PERIMETER OF THE LAST 200 LINEAR FEET OF TEMPORARY OR PERMANENT DRAINAGE DITCHES OR SWALES THAT IDRAIN WATER FROM THE SITE WITHIN 24 HOURS AFTER CONNECTIN SURFACE WATER OR PROPERTY EDGE PERMITTEES MUST COMPLETE STABLIZATION OF REMAINING PORTIONS OF TEMPORARY OR PERMANENT DITCHES OR SWALES WITHIN 7 CALENDAR DAYS AFTER CONNECTING TO A SURFACE WATER OR SWALES THE DITCHES WITHIN TO ALSO AND A STABLIZATION OF REPRIMANENTLY CASESS, MIM

CONSTRUCTION (WITH PROPERLY DESIGNED ROCK-DITCH CHECKS, BIO ROLLS, SLIT DIKES, ETC, DO NOT NEED TO BE STABILIZED. PERMITTEES MUST STABILIZE THESE AREAS WITHIN 24 HOURS AFTER THEIR USE AS A SEDIMENT CONTAIN SYSTEM CEASE, (MINN. R. 703).

6.8 PERMITTEES MUST NOT SUB-MUCH, HYDROMULCH, TACKIFIER, POLYACRYLAMIDE OR SIMILAR EROSION PREVENTION PRACTICES WITHIN ANY PORTION OF THE NORMAL WETTED PERMITTER OF A TEMPORARY OR PERMANENT DRAINAGE DITCHOR SWALE SECTION WITH A CONTINUOUS SLOPE OF GREATER THAN 2 PERCENT, MIRINA. R. 700.

8.9 PERMITTEES MUST PROVIDE TEMPORARY OR PERMANENT ENERGY DISSIPATION AT ALL PIPE OUTLETS WITHIN 24 HOURS AFTER CONNECTION TO A SURFACE WATER OR PERMANENT STORMWATER TREATMENT SYSTEM, MINN, R, 7090] 8.10 PERMITTEES MUST NOT DISTURB MORE LAND (I.E., PHASING) THAN CAN BE EFFECTIVELY INSPECTED AND MAINTAINED IN ACCORDANCE WITH SECTION 11. [MINN. R. 7080]

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

9.2 PERMITTES MUST ESTABLISH SEDIMENT CONTROL BMPS ON ALL DOWNGRADIENT PERIMETERS OF THE SITE AND DOWNGRADIENT SERAS OF THE SITE THAT DRAIN TO ANY SURFACE WATER, INCLUDING CURB AND GUTTER SYSTEMS. PERMITTEES MUST LOCATE SEDIMENT CONTROL PRACTICES BEFORE ANY UPGRADIENT OF ANY BUFFER CONES, PERMITTEES MUST SEDIMENT CONTROL PRACTICES BEFORE ANY UPGRADIENT OSTUTION OF ANY BUFFER SEDIMENT OWN THE SEDIMENT OWN THAT OWN THE SEDIMENT OWN THAT OWN THE SEDIMENT OWN THAT OWN THAT OWN THE SEDIMENT OWN THAT OWN THA

9.3 IF DOWNGRADIENT SEDIMENT CONTROLS ARE OVERLOADED, BASED ON FREQUENT FAILURE OR EXCESSIVE MAINTENANCE REQUIREMENTS, PERMITTESS MUST INSTALL ADDITIONAL UPGRADIENT SEDIMENT CONTROL PRACTICES OR REDUNDANT BIMPS TO ELIMINATE THE OVERLOADING AND AMED THE SWEPP TO IDENTIFY THESE ADDITIONAL PRACTICES AS REQUIRED IN ITEM.

3.4 TEMPORARY OR PERMANENT DRAINAGE DITCHES AND SEDIMENT BASINS DESIGNED AS PART O CONTAINMENT SYSTEM, (E.S., DITCHES WITH ROCK-CHECK DAMS) REQUIRE SEDIMENT CONTROL PF PPROPRIATE FOR SITE CONDITIONS, (MINN. R, 7999)

9.5 A FLOATING SILT CURTAIN PLACED IN THE WATER IS NOT A SEDIMENT CONTROL BMP TO SATISFY ITEM 9.2 EXCEPT WHEN WORKING ON A SHORELINE OR BELOW THE WATER INE. IMMEDIATELY AFTER THE SHORT TERM CONSTRUCTION ACTIVITY (E.G., INSTILLATION OF RIP APA LONG THE SHORELINE) IN THAT AREA IS COMPLETE, PERMITTEES MUST INSTALL AN UPLAND PERIMETER CONTROL PRACTICE IF EXPOSED SOILS STILL DRAIN TO A SURFACE WATER, [MINN. R. 7690]

9.6 PERMITTEES MUST RE-INSTALL ALL SEDIMENT CONTROL PRACTICES ADJUSTED OR REMOVED TO ACCOMMODATE SHORT-TERM ACTIVITIES SUCH AS CLEARING OR GRUBBING, OR PASSAGE OF VEHICLES, IMMEDIATELY AFTER THE SHORT-TERM ACTIVITIES SUCH AS CLEARING OR GRUBBING, OR PASSAGE OF VEHICLES, IMMEDIATELY AFTER THE SHORT-TERM ACTIVITY IS COMPLETED, PERMITTEES MUST RE-INSTALL SECUMENT CONTROL PRACTICES BEFORE PRECIPITATION EVENT EVEN IF THE SHORT-TERM ACTIVITY IS NOT COMPLETE, IMMIN, 7.0990 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/FREEZING) IS IDENTIFIED BY THE PERMITTEES OR THE JUSTICIDITIONAL JUSTICIONAL JUSTICIDITIONAL JUSTICIDITIONAL CONTROL OF THE STREET PROMISSION OF THE STREE VEED FOR REMOVAL IN THE SWPPP, IMINN R 70901

9.9 PERMITTEES MUST PROVIDE SILT FENCE OR OTHER EFFECTIVE SEDIMENT CONTROLS AT THE BASE OF STOCKPILES ON THE DOWNGRADIENT PERIMETER. IMINN. R. 7090] 8.10 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 STORMWATER. [JAINN, R, 789]

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

9.12 PERMITTEES MUST USE STREET SWEEPING IF VEHICLE TRACKING BMPS ARE NOT ADEQUATE TO PREVENT SEDIMENT TRACKING ONTO THE STREET, (MINN. R. 7090)

9.13 PERMITTEES MUST INSTALL TEMPORARY SEDIMENT BASINS AS REQUIRED IN SECTION 14, MINN, R, 7090; 9.14 IN ANY AREAS OF THE SITE WHERE FINAL VEGETATIVE STABILIZATION WILL OCCUR, PERMITTEES MUST RESTRICT VEHICLE AND EQUIPMENT USE TO MINIMIZE SOIL COMPACTION. [MINN. R. 7090]

9.15 PERMITTEES MUST PRESERVE TOPSOIL ON THE SITE, UNLESS INFEASIBLE. [MINN. R. 7090]

9.16 PERMITTEES MUST DIRECT DISCHARGES FROM 6MPS TO VEGETATED AREAS LINEESS INFEASIBLE IMINN. R. 70901 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 REDUNDANT (DOUBLE) PERIMETER SEDIMENT CONTROLS WHEN A SUFFACE WATER IS LOCATED WITHIN 50 FEET OF THE PROJECT'S EARTH DISTURBANCES AND STORMWATER FLOWS TO THE SUFFACE WATER. PERIMITTEES MUST INSTALL PERIMETER SEDIMENT CONTROLS AT LEAST 5 FEET APART UNLESS LIMITED BY LACK OF AVAILABLE SPACE. NATURAL BUFFERS ARE NOT REGURED DAJACENT TO ROAD DITCHES, JUDICAL DITCHES, CUDICAL DITCHES COUNTY DITCHES, STORMWATER CONVEYANCE CHANNELS, STORM DRAIN INLETS, AND SEDIMENT BASINS, IF PRESERVING THE BUFFER IS INFEASIBLE, PERMITTEES MUST DOCUMENT THE REASONS IN THE GRYPPS, SHEET PILING IS A REDUNDANT PERIMETER CONTROL IF INSTALLED IN A MANNER THAT RETAINS ALL STORMWATER (MINN. R. 7090]

3.18 PERMITTEES MUST USE POLYMERS, FLOCCULANTS, OR OTHER SEDIMENTATION TREATMENT CHEMICALS IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICES, DOSING SPECIFICATIONS AND SEDIMENT REMOVAL DESIGN SPECIFICATIONS PROVIDED BY THE MANUFACTUREN OR SUPPLIER. THE PERMITTEES MUST USE CONVENTIONAL EROSION AND SEDIMENT CONTROLS PRIOR TO CHEMICAL ADDITION AND MUST DIRECT TREATED STORMWATER TO A SEDIMENT CONTROL SYSTEM FOR FILTRATION OR SETTLEMENT OF THE FLOC PRIOR TO DISCHARGE, MINN R 7 950]

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

10.1 DEWALTERING AND BASIN DIVARINING, IMINN. R. 709U)

10.2 PERMITTERS MUST DISCHARGE TURBIO OR SEDIMENT-LADEN WATERS RELATED TO DEWATERING OR BASIN DRAINING (E.G., PUMPED DISCHARGES, TRENCHOITCH CUTS FOR DRAINAGE) TO A TEMPORARY OR PERMANENT SEDIMENT BASIN ON THE PROJECT SITE OUNLESS INFEASIBLE PERMITTEES MAY DEWALTER TO SUBFACE WATERS IF THEY VISUALLY CHOIC TO ENSURE ADEQUATE TREATMENT HAS BEEN OBTAINED AND NUISANCE CONDITIONS (SEE MINN. R. 7050.0210, SUBP. 2) WILL NOT RESULT FROM THE DISCHARGE IF PERMITTEES AND TO ISCHARGE THE WATER TO A SEDIMENTATION BASIN PRIOR OF ENTENING A SURFACE WATER, PERMITTEES AUGUST TREATT WITH APPROPRIATE BAMPS SUCH THAT THE DISCHARGE DOES NOT ADVERSELY AFFECT THE SURFACE WATER OR DOWNSTREAM PROPERTIES, MINN. R. 7050.0210]

10.3 IF PERMITTEES MUST DISCHARGE WATER CONTAINING OIL OR GREASE, THEY MUST USE AN OIL-WATER SEPARA BUITABLE FILTRATION DEVICE (E.G., CARTRIDGE FILTERS, ABSORBENTS PADS) PRIOR TO DISCHARGE, [MINN. R. 7080] 10.4 PERMITTEES MUST DISCHARGE ALL WATER FROM DEWATERING OR BASIN-DRAINING ACTIVITIES IN A MANNER THAT DOES NOT CAUSE EROSION OR SCOUR IN THE IMMEDIATE (ICINITY OF DISCHARGE POINTS OR INJURDATION OF WETLANDS IN THI MIMEDIATE VICINITY OF DISCHARGE POINTS THAT CAUSES SIGNIFICANT ADVESSE IMPACT TO THE WETLAND, BINN R. 7890] 0.5 IF PERMITTEES USE FILTERS WITH BACKWASH WATER, THEY MUST HAUL THE BACKWASH WATER AWAY FOR DISPOSAL, BETURN THE BACKWASH WATER TO THE BEGINNING OF THE TREATMENT PROCESS, OR INCORPORATE THE BACKWASH WATER

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

NTO THE SITE IN A MANNER THAT DOES NOT CAUSE EROSION, IMINN, R. 70901

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, IMIN. R. 7080)

11.3 PERMITTEES MUST INSPECT AND MAINTAIN ALL PERMANENT STORMWATER TREATMENT BMPS. IMINN. R. 70901 11.3 PERMITTEES MUST INSPECT ALL BROSTORION PREVENTION AND SEDIMENT CONTROL BOWN AND POLLUTION PREVENTION MANAGEMENT MEASURES TO ENSURE INTEGRITY AND EFFECTIVENESS. PERMITTEES MUST REPARE TO ENSURE INTEGRITY BAND EFFECTIVENESS. PERMITTEES MUST REPARE AND POLLUTION PREVENTION MANAGEMENT MEASURES TO ENSURE INTEGRITY BAND EFFECTIVENESS. PERMITTEES MUST REPARE, REPLACE OR SUPPLY ALL NON-FUNCTIONAL BROST PARE AND PREVENT AND PR

PREVENT ACCESS TO THE AREA, MINN. R. 7090)

11.5 DURING EACH INSPECTION, PERMITTEES MUST INSPECT SURFACE WATERS, INCLUDING DRAINAGE DITCHES AND CONVEYANCE SYSTEMS BUT NOT CURB AND GUTTER SYSTEMS, FOR EVIDENCE OF EROSION AND SEDIMENT DEPOSITION PERMITTEES MUST REMOVE ALL DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS, INCLUDING DOBINAGE WAYS, CATCH BASINS, AND OTHER DRAINAGE SYSTEMS AND RESTRABILIZE THE AREAS WHERE SEDIMENT REMOVAL RESULTS IN EXPOSED SOIL, PERMITTEES MUST COMPLETE REMOVAL AND STABILIZATION WITHIN SEVER (7) CALENDAR WITH SEVER OF THE CONTROL OF THE STABLE STABLES ON STABLES ON STRAINTS, PERMITTEES MUST COMPLETE REMOVAL AND STABLIZATION WHITH IS EVER (7) CALENDAR WITHIN SEVER IN EXAMINATION STATE AND STABLE STABLES ON STABL

TOUGH THE PROPERTY OF A VOID A SAFETY HAZARD TO USERS OF PUBLIC 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 SUFFACES WITHIN ONE (1) CALENDAR DAY OF DISCOVERY OR, IF APPLICABLE, WITHIN A SHORTER TIME TO AVOID A SAFETY HAZARD TO USERS OF PUBLIC STREETS, MINN. R, 7560]

11.7 PERMITTEES MUST REPAIR, REPLACE OR SUPPLEMENT ALL PERIMETER CONTROL DEVICES WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES 1/2 OF THE HEIGHT OF THE DEVICE. [MINN. R. 7090]

11.8 PERMITTEES MUST DRAIN TEMPORARY AND PERMANENT SEDIMENTATION BASINS AND REMOVE THE SEDIMENT WHEN THE DEPTH OF SEDIMENT COLLECTED IN THE BASIN REACHES 1/2 THE STORAGE VOLUME. (MINN. R. 7090) 11.9 PERMITTEES MUST ENSURE THAT AT LEAST ONE INDIVIDUAL PRESENT ON THE SITE (OR AVAILABLE TO THE PROJECT SITE IN THREE (3) CALENDAR DAYS) IS TRAINED IN THE JOB DUTIES DESCRIBED IN ITEM 21.2.B, (MINN, R. 7090) 11.10 PERMITTEES MAY ADJUST THE INSPECTION SCHEDULE DESCRIBED IN ITEM 11.2 AS FOLLOWS

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

B. WHERE SITES HAVE PERMANENT COVER ON ALL EXPOSED SOIL AND NO CONSTRUCTION ACTIVITY IS OCCURRINIANT/WHERE ON THE SITE, INSPECTIONS CAN BE REDUCED TO ONCE PER MONTH AND, AFTER 12 MONTHS, MAY BE SUSPENDED COMPLETELY UNTIL CONSTRUCTION ACTIVITY RESUMES. THE MFCA MAY REQUIRE INSPECTIONS TO

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, PAINN, R. 7090.

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

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; AND

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 DURING THE INSPECTION, THEY MUST RECORD AND SHOULD PHOTOGRAPH A DESCRIBE THE LOCATION OF THE DISCHARGE (I.E., COLOR, ODOR, SETTLED OR SUSPENDED SOLIDS, OIL SHEEN, AND OTHER OBJUDIES INDICATORS OF POLLUTIANTS; AND

G ANY AMENDMENTS TO THE SWPPP PROPOSED AS A RESULT OF THE INSPECTION MUST BE DOCUMENTED AS REQUIRED IN

### 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. 7999]

12.3 PERMITTEES MUST PLACE PESTICIDES, FERTILIZERS AND TREATMENT CHEMICALS UNDER COVER (E.G., PLASTIC SHEETING OR TEMPORARY ROOPS) OR PROTECT THEM BY SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WITH STORMWATER, MINN. N. 7009.

12.4 PERMITTEES MUST STORE HAZARDOUS MATERIALS AND TOXIC WASTE, (INCLUDING OIL, DIESEL FUEL, GASOLINE HYDRAULIC FLUIDS, PAINT SOLVENTS, PETROLEUM-BASED PRODUCTS, WOOD PRESERVATIVES, ADDITIVES, CURING COMPOUNDS, AND ACIDS IN SEALED CONTAINERS TO PREVENT SHILLS, LEAKS OR OTHER DISCHARGE. STORAGE AND DESCRIPTION OF THE PROPERTY OF THE PROPERTY

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] PERMITTEES MUST FROPERLY LIDIOPSE CARTINATY WAS IE IN ACCURDANCE WITH MINNY, R. O.H. 1021, IMINN R. 1021 I 1.27 PERMITTEES MUST TAKE REASONABLE STEPS TO PREVENT THE DISCHARGE OF SPILLED OR LEAKED CHEMICALS, INCLUDING FUEL. EROID ANY AREA WHERE CHEMICALS OR FUEL WILL BE LOADED OR UNLOADED INCLUDING THE USE OF DRIN PANS OR ASSORBENTS UNLESS INFEASIBLE. PERMITTEES MUST ENSURE ADEQUATE DISPOSAL METHOD IS AVAILABLE AT ALL TIMES TO CLEAN UP DISCHARGED MATERIALS AND THAT AN APPROPRIATE DISPOSAL METHOD IS AVAILABLE FOR RECOVERED SPILLED MATERIALS, PERMITTEES MUST REPORT AND IC LEAN UP SPILLS IMMEDIATELY AS REQUIRED BY MINN. STAT. 115.061. USING DRY CLEAN UP MEASURES WHERE POSSIBLE. MINN. STAT. 115.061.

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

LEFERGENIS, OF SOLVENIS, IMMN: A: 7080]

12.9 PERMITTES MUST PROVIDE EFFECTIVE CONTAINMENT FOR ALL LIQUID AND SOLID WASTES GENERATED BY WASHOUT OPERATIONS (E.G., CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS) RELATED TO THE CONSTRUCTION ACTIVITY. PERMITTEES MUST PREVENT LIQUID AND SOLID WASHOUT WASTESS FROM CONTACTING THE GROUND AND MUST DESIGN THE CONTAINMENT SO IT DOES NOT RESULT IN RUNOFF FROM THE WASHOUT OPERATIONS OR AREAS, PERMITTEES MUST FORDERLY DISPOSE LIQUID AND SOLUD WASTES IN GOMPLIANCE WITH MPCA RULES, PERMITTEES MUST INSTALL A SIGN INDICATING THE LOCATION OF THE WASHOUT FACILITY, MINN. R. 7035, MINN R. 7,000.

### 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 NOT. VEGETATIVE COVER MUST CONSIST OF A UNIFORM PERENNIAL VEGETATION WITH A DENSI OF 70 PERCENT OF 1TS EXPECTED FINAL GROWTH, VEGETATION IS NOT REQUIRED WHERE THE FUNCTION OF A SPECIFIC AR DICTATES NO VEGETATION, SUCH AS IMPERVIOUS SURFACES OR THE BASE OF A SAND FILTER, MINN. R. 7080]

3.3 PERMITTEES MUST CLEAN THE PERMANENT STORMWATER TREATMENT SYSTEM OF ANY ACCUMULATED SEDIMENT AND IUST ENSURE THE SYSTEM MEETS ALL APPLICABLE REQUIREMENTS IN SECTION 15 THROUGH 19 AND IS OPERATING AS 13.4 PERMITTES MUST REMOVE ALL SEDIMENT FROM CONVEYANCE SYSTEMS PRICE TO SUBMITTING THE NOT MINN R. 70001

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 OA-SITE IN PLACE. [MINN. R 7090] 13.6 FOR RESIDENTIAL CONSTRUCTION ONLY, PERMIT COVERAGE TERMINATES ON INDIVIDUAL LOTS IF THE STRUCTURES ARE FINISHED AND TEMPORARY EROSION PREVENTION AND DOWNGRADIENT PERMITER CONTROL IS COMPLETE, THE RESIDENCE SELLS TO THE HOMEOWNER, AND THE PERMITTEE DISTRIBUTES THE MPCA'S "HOMEOWNER FACT SHEET" TO THE HOMEOWNER, IMINN. R. 7030.

13.7 FOR CONSTRUCTION PROJECTS ON AGRICULTURAL LAND (E.G., PIPELINES ACROSS CROPLAND), PERMITTEES MUST RETURN THE DISTURBED LAND TO ITS PRECONSTRUCTION AGRICULTURAL USE PRIOR TO SUBMITTING THE NOT. [MINN. R. 7090]

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

14.2 WHERE FIVE (5) OR MORE ACRES OF DISTURBED SOIL DRAIN TO A COMMON LOCATION, PERMITTEES MUST PROVIDE A TEMPORARY SEDIMENT BASIN TO PROVIDE TREATMENT OF THE RUNOFF BEFORE IT LEAVES THE CONSTRUCTION SIZE OF ENTERS SURFACE WATERS, PERMITTEES MAY CONVERT A TEMPORARY SEDIMENT BASIN AFTER CONSTRUCTION IS COMPLETE. THE TEMPORARY BASIN IS NO LORGE REQUIRED WHEN PERMANENT COVER HAS REQUIRE THE ACREAGE OF DISTURBED SOIL TO LESS THAN FIVE (5) ACRESS DRAINING TO A COMMON LOCATION. | PROVISIONS TO MI

1.43. THE TEMPORARY BASIN MUST PROVIDE LIVE STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A TWO (2)-YEAR. 24-HOUR STORM FROM EACH ACRE DRAINED TO THE BASIN OR 1.800 CUBIC FEET OF LIVE STORAGE PER ACRE DRAINED, WHICHEVER IS GREATER, BINN. R. 7080)

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, [MINN. R. 7090] 14.5 PERMITTEES MUST DESIGN BASIN OUTLETS TO PREVENT SHORT-CIRCUITING AND THE DISCHARGE OF FLOATING DEBRIS.
"MINN, R. 7090]

14.6 PERMITTEES MUST DESIGN 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 MECHANIS DURING FROZED 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. 7080)

TO A COMMON LOCATION, MINN. R. 7099)

4.10 WHERE A TEMPORARY SEDIMENT BASIN MEETING THE REQUIREMENTS OF ITEM 14.3 THROUGH 14.9 IS INFEASIBLE, PERMITTEES MUST INSTAIL EFFECTIVE SEDIMENT CONTROLS SUCH AS SMALLER SEDIMENT BASINS ANDIOR SEDIMENT TRAPS, SILT ENCES, VEGETATIVE BUFFER STRIPS OR ANY APPROPRIATE COMBINATION OF MEASURES AS DICTATED BY INDIVIDUAL SITE CONDITIONS. IN DETERMINING WHETHER INSTAILING A SEDIMENT BASIN IS INFEASIBLE, PERMITTEES MUST CONSIDER PUBLIC SAFETY AND MAY CONSIDER FACTORS SUCH AS SITE SOLLS, SLOPE, AND AVAILABLE AREA ON-SITE, PERMITTEES MUST DOCUMENT THIS DETERMINATION OF INFEASIBILTY IN THE SWIPPP, MINN R 7090]

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

15.2 PERMITTEES MUST DESIGN THE PROJECT SO ALL STORMWATER DISCHARGED FROM THE PROJECT DURING AND AFTER CONSTRUCTION ACTIVITIES DOES NOT CAUSE A VIOLATION OF STATE WATER QUALITY STANDARDS, INCLUDING NUISANCE CONDITIONS, EROSIGN IN RECEIVING CHAINELS OR ON DOWNSLOPE PROPERTIES, OR A SIGNIFICANT ADVERSE IMPACT TO WETLANDS CAUSED BY INUNDATION OR DECREASE OF FLOW [MINN. R. 7.056].

15.4 PERMITTEES MUST CALCULATE THE WATER QUALITY VOLUME AS ONE (1) INCH TIMES THE NET INCREASE OF IMPERVIOUS SURFACES CREATED BY THE PROJECT, [MINN. R. 7090]

15.5 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 16:14 THROUGH ITEM 16:21, PERMITTEES MAY CONSIDER A WET SEDIMENTATION BASIN, FILTRATION BASIN OR REGIONAL POND. THIS PERMIT DOES NOT CONSIDER WET SEDIMENTATION BASIN, FILTRATION SYSTEMS TO BE VOLUME REDUCTIO PRACTICES (MINN. R 7399).

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 15.1 AT HONOUGH TEM 16.21, PERMITTEES MAY CONSIDER A WET SEDIMENTATION BASIS, FILTRATION SASIN OR REGIONAL POND THIS PERMIT DOES NOT CONSIDER WET SEDIMENTATION BASIS, FILTRATION SYSTEMS TO BE VOLUME REDUCTION PRACTICES, MINN. R. 7020]

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

15.7 PERMITTEES MUST DISCHARGE THE WATER QUALITY VOLUME TO A PERMANENT STORMWATER TREATMENT SYSTEM PRIOR TO DISCHARGE TO A SURFACE WATER. FOR PURPOSES OF THIS TEM, SURFACE WATERS DO NOT INCLUDE MAN-MADE PRAINAGE SYSTEMS THAT CONVEY STORMWATER TO A PERMANENT STORMWATER TRATMENT SYSTEM, IMINN. R 7090]
15.8 WHERE THE PROXIMITY TO BEDROCK PRECLUDES THE INSTALLATION OF ANY OP THE PERMANENT STORMWATER TREATMENT PRACTICES REQUIRED BY SECTIONS IN THE MEDITAL TO THE PERMANENT FEATHER TO STREAM THE TEATMENT PRACTICES REQUIRED BY SECTIONS IS THROUGH 19, PERMITTERS MUST INSTALL OTHER TREATMENT SUCH AS GRASSED SWALES, SMALLER PONDS, OR GRIT CHAMBERS, PRIOR TO THE DISCHARGE OF STORMWATER TO SURFACE WATER (MINN. R. 7009).

[MINN. R. 7080]

IS, POR LINEAR PROJECTS WHERE PERMITTEES CANNOT TREAT THE ENTIRE WATER QUALITY VOLLIME WITHIN THE EXISTIK RIGHTOF-WAY, PERMITTEES MUST MAKE A REASONABLE ATTEMPT TO OBTAIN ADDITIONAL RIGHT-OF-WAY, EASEMENT OR OTHER PERMISSION FOR STORMWATER TREATMENT DURING THE PROJECT PLANNING PROJECSES DOCUMENTOD OF THE ATTEMPTS MUST BE IN THE SWEPP. PERMITTEES MUST STILL CONSIDER VOLLIME REDUCTION PRACTICES FIRST AS DESCRIB IN TIEM 15.5. IP PERMITTEES CANNOT OBTAIN ADDITIONAL RIGHT-OF-WAY, EASEMENT OR OTHER PERMISSION, THEY MUST MAXIMIZE THE TREATMENT OF THE WATER QUALITY VOLUME PRIOR TO DISCHARGE TO SUFFACE WATERS, MINN. R. 7080]

### 16.1 INFILTRATION SYSTEMS, [MINN, R. 7090]

16.2 INFLITATION DOTOS LEMIS, INNIVER. IN JUSTICE TO: INFLITATION BASINS, INFLITATION TRENCHES, RAINWATER GARGINS, BIORETENTION AREAS WITHOUT UNDERGRAINS, SWALES WITH IMPERMEABLE CHECK DAMS, AND INSTURAL DEPRESSIONS. IF PERMITTEES UTILIZE AN INFLITATION SYSTEM TO MEET THE REQUIREMENTS OF THIS PERMIT, THEY MUST MCORPORATE THE DESIGN PARAMETERS IN ITEM 15.3 THROUGH ITEM 15.21. PERMITTEES MUST FOLLOW THE INFLITATION PROHIBITION IN ITEM 15.4 ANYTIME AN INFLITATION SYSTEM IS DESIGNED, INCLUDING THOSE NOT REQUIRED BY THIS PERMIT, IMPN. 1.708(1)

INITIAL A VOID IN THE STATE OF THE STATE OF

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

16.8 PERMITTEES MUST USE A PRETREATMENT DEVICE SUCH AS A VEGETATED FILTER STRIP, FOREBAY, OR WATER QUALITY INLET (E.G., GRIT CHAMBER) TO REMOVE SOLIDS, FLOATING MATERIALS, AND DIL AND GREASE FROM THE RUNDEF, TO THE MAXIMUM EXTENT PRACTICABLE, BEFORE THE SYSTEM NOUTES STORMWITTER TO THE INTENTION SYSTEM, MINN. R. 7059] 16.7 PERMITTEES MUST DESIGN INFILTRATION SYSTEMS TO PROVIDE A WATER QUALITY VOLUME (CALCULATED AS AN ANSTANTANEOUS VOLUME) OF ONE, I'D) INCH ONDER, OR ONE THE VOLUME OF STORMWATER TREAT AND THE RYSTEM ON THE STEP, FROM THE RETURNED OF IMPERVIOUS SUFFACES OFFERENDED BY THE PROJECT. (MINN. R. AND THER SYSTEM ON THE SITE, FROM THE DETINCEASE OF IMPERVIOUS SUFFACES OFFERENDED BY THE PROJECT. (MINN. R.

7.090]
16 8 PERMITTEES MUST DESIGN THE INFILTRATION SYSTEM TO DISCHARGE ALL STORMWATER (INCLUDING STORMWATER IN EXCESS OF THE WATER QUALITY VOLUME) ROUTED TO THE SYSTEM THROUGH THE UPPERMOST SOIL SURFACE OR ENGINEERED MEDIA SURFACE WITHIN 48 HOURS. PERMITTEES MUST ROUTE ADDITIONAL FLOWS THAT CANNOT INFILTRATE WITHIN 48 HOURS TO BYPASS THE SYSTEM THROUGH A STRABILIZED DISCHARGE POINT, INNN. R. 7890]

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

16.10 FERMITTEES MUST PROVIDE AT LEAST ONE SOIL BORRING, TEST PIT OR INFILTROMETER TEST IN THE LOCATION OF THE INFILTRATION PRACTICE FOR DETERMINING INFILTRATION RATES. [MINN. R. 7090]

16.11 FOR DESIGN PURPOSES, PERMITTEES MUST DIVIDE FIELD MEASURED INFILTRATION RATES BY 2.4S A SAFETY FACTOR OR REPORT THE ANALYSIS OF THE MANAGEMENT O PERMITTEES CAN USE SOIL-BORING RESULTS WITH THE INFILITATION RATE CHART IN THE MINNESOTA STORMWATER MANUAL TO DETERMINE DESIGN INFILITATION RATES WHEN SOIL BORINGS INDICATE TYPE A SOILS, PERMITTEES SHOULD PERFORM FIELD MEASUREMENTS TO VERIFY THE RATE IS NOT ABOVE 8.3 INCHES PER HOUR. THIS PERMIT PROHIBITS INFILITATION IF THE FIELD MEASURED INFILITATION RATE IS ABOVE 8.3 INCHES PER HOUR. THIS PERMIT PROHIBITS INFILITATION IF

18.12 PERMITTEES MUST EMPLOY APPROPRIATE ON-SITE TESTING ENSURE A MINIMUM OF THREE (3) FEET OF SEPARATION FROM THE SEASONALLY SATURATED SOILS (OR FROM BEDROCK) AND THE BOTTOM OF THE PROPOSED INFILTRATION SYSTEM.

16.13 PERMITTEES MUST DESIGN A MAINTENANCE ACCESS, TYPICALLY EIGHT (8) FEET WIDE, FOR THE INFILTRATION SYSTEM.
[MINN. R. 7090] TEAL THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS THAT RECEIVE RUNOFF FROM VEHICLE FUELING AND MAINTENANCE AREAS INCLUDING CONSTRUCTION OF INFILTRATION SYSTEMS NOT RECUIRED BY THIS PERMIT, IMMN. R. 7090)

16.15 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFIL TRATION SYSTEMS WHERE INFIL TRATING ST 16.15 THIS PERMIT PERMITTED STATEMENT THE SEPROM CURSINGLE HIGH STATEMENT THE MET AND STATEMENT THE REMOVED THE MET AND A STATEMENT THE MET AS CONTAMINATION SCREENING CHECKLIST OR CONDUCT THEIR OWN ASSESSMENT TO DETERMINE THE SUITABILITY FINELITY OF THE MET AS CONTAMINATION SCREENING CHECKLIST OR CONDUCT THEIR OWN ASSESSMENT TO DETERMINE THE SUITABILITY FINELITY OF THE MET ASSESSMENT WITH THE SUPPLY FOR MORE INFORMATION AND TO ACCESS THE MPCA'S "CONTAMINATION SCREENING CHECKLIST" SEE THE MINNESOTA STORMWATER MANUAL, [MINN. R. 2009.]

16.19 THIS PERMIT PROHIBITS 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, IMMIN. 7.099)

RATE BELOW 8.3 INCHES PER HOUR, [MIND. 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 INFILTRATION SYSTEM TO THE ELEVATION OF THE
SEASONALLY SATURATED SOILS OR THE TOP OF BEDROCK, [MIND. 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) 16.19 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS WITHIN A DRINKING WATER SUPPLY MANAGEMENT AREA (DWSMA) AS DEFINED IN MINN. R. 4720.5100, SUBP. 13, IF THE SYSTEM WILL BE LOCATED:

A. IN AN EMERGENCY RESPONSE AREA (ERA) WITHIN A DWSMA CLASSIFIED AS HAVING HIGH OR VERY HIGH VULNERABILITY AS DEFINED BY THE MINNESOTA DEPARTMENT OF HEALTH: OR B. IN AN ERA WITHIN A DWSMA CLASSIFIED AS MODERATE VULNERABILITY UNLESS A REGULATED MS4 PERMITTEE PERFORMED OR APPROVED A HIGHER LEVEL OF ENGINEERING REVIEW SUFFICIENT TO PROVIDE A FUNCTIONING TREATMENT SYSTEM AND TO PREVENT ADVERSE IMPACTS TO GROUNDWATER, OR

C. OUTSIDE OF AN ERA WITHIN A DWSMA CLASSIFIED AS HAVING HIGH OR VERY HIGH VULNERABILITY, UNLESS A REGULATED MSA PERMITTEE PERRORMED OR APPROVED A HIGHER LEVEL OF ENGINEERING REVIEW SUFFICIENT TO PROVIDE A FUNCTIONING TREATMENT SYSTEM AND TO PREVENT ADVERSE IMPACTS TO GROUNDYAFTE.

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] 18.21 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFLITATION SYSTEMS IN AREAS THAT RECEIVE RUNOFF FROM THE FOLLOWING INDUSTRIAL FACILITIES NOT AUTHORIZED TO INFLITARTE STORMWATER UNDER THE NPDES STORMWATER PROBLET THE NPDES STORMWATER PROBL

### 17.1 FILTRATION SYSTEMS, IMINN, R. 70901

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

17.3 PERMITTEES MUST NOT INSTALL FILTER MEDIA UNTIL THEY CONSTRUCT AND FULLY STABILIZE THE CONTRIBUTING DRAIMAGE AREA UNLESS THEY PROVIDE RIGGROUS EROSION PREVENTION AND SEDMENT CONTROLS (E.G., DIVERSION BERMS) TO KEEP SEDIMENT AND RUNOFF COMPLETELY AWAY FROM THE FILTRATION AREA (MINN. R. 709). 17.4 PERMITTEES MUST DESIGN FILTRATION SYSTEMS TO REMOVE AT LEAST 80 PERCENT OF TSS. IMINN. R. 7090)

17.4 PERMITTEES MUST USE A PRETEATMENT DEVICE SUCH AS A VEGETATED FILTER STIP, SWALL SEDIMENTATION BASIN. WATER DUALTY NILET, FOREBAY OR HYDRODYNAMIC SEPARATOR TO REMOVE SETTLEABLE SOLIDS, FLOATING MATERIALS, AND GILS AND GREASE FROM THE RUNOFF, TO THE MAXIMUM EXTENT PRACTICABLE, BEFORE RUNOFF ENTERS THE FILTRATION SYSTEM, JMMN. R. 7080)

17.5 PERMITTEES MUST DESIGN FILTRATION SYSTEMS TO TREAT A WATER QUALITY VOLUME (CALCULATED AS AN INSTANTANEOUS VOLUME) OF ONE (1) INCH OF STORMWATER TREATED BY ANOTHER SYSTEM ON THE SITE, FROM THE NET INCREASE OF IMPERIOUS SURFACES CREATED BY THE PROJECT, MINN. R. 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 88 HOURS. ADDITIONAL FLOWS THAT THE SYSTEM CANNOT FILTER WITHIN 48 HOURS MUST BYPASS THE SYSTEM OR DISCHARGE THROUGH AN EMERGENCY OVERFLOW, JMIN, R. 7990] TILE PERMITTEES MUST DESIGN THE FILTRATION SYSTEM TO PROVIDE A MEANS TO VISUALLY VERIFY THE SYSTEM IS DISCHARGING THROUGH THE SOIL SURFACE OF FILTER MEDIA WITHIN 48 HOURS, (MINN. R. 7090)

17.9 PERMITTEES MUST EMPLOY APPROPRIATE ON-SITE TESTING TO ENSURE A MINIMUM OF THREE (3) FEET OF SEPARATION BETWEEN THE SEASONALLY SATURATED SOILS (OR FROM BEDROCK) AND THE BOTTOM OF THE PROPOSED FILTRATION SYSTEM, INJUN, R. 7080]

17.10 PERMITTEES MUST ENSURE THAT FILTRATION SYSTEMS WITH LESS THAN THREE (3) FEET OF SEPARATION BETWEEN SEASONALLY SATURATED SOILS OR FROM BEDROCK ARE CONSTRUCTED WITH AN IMPERMEABLE LINER. [MINN. R. 7090] 17.11 THE PERMITTEES MUST DESIGN A MAINTENANCE ACCESS, TYPICALLY EIGHT (8) FEET WIDE, FOR THE FILTRATION SYSTEM. IMINN. R. 70901

DRAWN BY DESIGN B C.W.P. HCKD BY: PROJ. NO M.Q.A RIGINAL DATE FERRUARY 9 2022



MINNESOTA LAKE

GERALD MAGER



ENGINFERING INC 6776 LAKE DRIVE

LINO LAKES, MN 55014

PHONE: (651) 361-8210

FAX: (651) 361-8701

STORM WATER POLLUTION PREVENTION PLAN MAGERS MEADOWS

18.2 PERMITTEES USING A WET SEDIMENTATION BASIN TO MEET THE PERMANENT STORMWATER TREATMENT REQUIREMENTS OF YHIS 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 STORGE BELOW THE OUTLET PIPE FOR EACH ACRE THAT DRAINS TO THE BASIN THE BASIN'S PERMANENT VOLUME MUST REACH A MINIMUM DEPTH OF AT LEAST THREE (3) FEET AND MUST HAVE NO DEPTH GREATER THAN 10 FEET PERMITTEES MUST CONFIGURE THE BASIN TO MINIMIZE SCOUR OR RESUSPENSION OF SOLIDS. (MINN. R. 7080)

18.4 PERMITTEES MUST DESIGN THE BASIN TO PROVIDE LIVE STORAGE FOR A WATER QUALITY VOLUME (CALCULATED AS AN INSTANTANEOUS VOLUME) OF ONE (1) INCH OR ROUTED, ONE (1) INCH DESIGN THE REST OF THE STORAGE O

16.5 PERMITTEES MUST DESIGN BASIN OUTLETS SO THE WATER QUALITY VOLUME DISCHARGES AT NO MORE THAN 5.66 CUBIC FEET PER SECOND (CFS) PER ACRE OF SURFACE AREA OF THE BASIN, MINN, R. 7090]
18.6 PERMITTEES MUST DESIGN BASIN OUT

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

18.8 PERMITTEES MUST DESIGN A MAINTENANCE ACCESS, TYPICALLY EIGHT (8) FEET WIDE, FOR THE BASIN, [MINN. R. 7090] 18.9 PERMITTEES MUST LOCATE BASINS OUTSIDE OF SURFACE WATERS AND ANY BUFFER ZONE REQUIRED IN TEM 23.11. PERMITTEES MUST DESIGN BASINS TO AVOID DRAINING WATER FROM WETLANDS UNLESS THE IMPACT TO THE WETLAND COMPLIES WITH THE REQUIREMENTS OF SECTION 22, MINN R 7.999]

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

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

19.1 NEGIONAL WELL SEDIMENT IA TION BASINS, IMINN, I.K., 7,090]

19.2 WHEN THE ENTIRE WATER QUALITY OLUBLE 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 REGIONADA BASINS AUST BE MITIGATED FOR, SEE SECTION 22). THE OWNER MUST ENTER REGIONA BASINS 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 WILL DISCHARGE AT NO MORE THAN 5.65 CFS PER ACRE OF SURFAMENTES MUST VERIFY THAT THE REGIONAL BASIN WILL DISCHARGE AT NO MORE THAN 5.65 CFS PER ACRE OF SURFAMENTES OF A NOW MUST BE ADMINISTED THE THE BASIN AND MUST FROVIDE A LUB STORAGE VOLUME OF ONE INCH TIMES ALL THE IMPERVIOUS AREA DRAINING THE BASIN PERMITTEES MUST CONTROLLED THE PROPERTY OF THE REGIONAL BASIN THE DRAIN FOR THE MISTORY OF THE PROPERTY OF THE REGIONAL BASIN THE OWNER MUST GRAIN WRITTEN AUTHORIZATION FROM THE APPLICABLE LGU OR PRIVATE ENTITY THAT OWNS AND MAINTAINS THE REGIONAL BASIN, THE OWNER MUST GRAIN WRITTEN AUTHORIZATION FROM THE APPLICABLE LGU OR PRIVATE ENTITY THAT OWNS AND MAINTAINS THE REGIONAL BASIN, JIMINN. R. 7,090]

### 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 THE SITE. [AIMN. R. 7690]

### 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 RECARD TO ACTIVITIES COVERED UNDER THIS PERMIT.

A INDIVIDUALS PREPARING THE SWPPP FOR THE PROJECT.

S. INDIVIDUALS OVERSEEING IMPLEMENTATION OF, REVISING AND/OR AMENDING THE SWPPP AND INDIVIDUALS PERFORMININSPECTIONS FOR THE PROJECT. ONE OF THESE INDIVIDUALS MUST BE AVAILABLE FOR AN ONSITE INSPECTION WITHIN 72 HOURS UPON REQUEST BY THE MPCA.

C. 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, PREVAMENTE STORMWATER PERMIT. PROFESSION CONSTRUCTION STORMWATER PERMIT. PERMITTEES MUST ENSURE THESE INDIVIDUALS ATTEND A REFRESHER-TRAINING COURSE EVERY THREE (3) YEARS, [MINN. R. 7090]

## 23.1 ADDITIONAL REQUIREMENTS FOR DISCHARGES TO SPECIAL (PROHIBITED, RESTRICTED, OTHER) AND IMPARIED WATERS. [MINN. R. 7090]

23.6 DISCHARGES TO THE TROUT STREAMS (OTHER SPECIAL WATER) LISTED IN MINN, R. 6264.0050,SUBP. 4 MUST INCORPORATE THE BMPS OUTLINED IN ITEMS 23.9, 23.10, 23.11, AND 23.12, [MINN.R.6264.0050, SUBP. 4]

23.9 PERMITTEES MUST IMMEDIATELY INITIATE STABILIZATION OF EXPOSED SOIL AREAS, AS DESCRIBED IN 1TEM 8.4 AND COMPLETE STABILIZATION WITHIN SEVEN (7) CALENDAR DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE TEMPORATION OF THE SITE TEMPORATION OF THE SITE TEMPORATION OF THE SITE THE PORTION OF THE SITE THE SITE THE PORTION OF THE SITE THE PORTION OF THE SITE THE PORTION OF THE SITE THE SITE

23.10 PERMITTEES MUST PROVIDE A TEMPORARY SEDIMENT BASIN AS DESCRIBED IN SECTION 14 FOR COMMON DRAINAGE LOCATIONS THAT SERVE AN AREA WITH FIVE (5) OR MORE ACRES DISTURBED AT ONE TIME, [MINN.R. 7090]

a. PROVIDE STORMWATER INFILTRATION OR OTHER VOLUME REDUCTION PRACTICES AS DESCRIBED IN ITEM 15.4 AND 15.5, TO REDUCE RUNOFF INFILTRATION SYSTEMS MUST DISCHARGE ALL STORMWATER ROUTED TO THE SYSTEM WITHIN 24 HOURS. b. PROVIDE STORMWATER FILTRATION AS DESCRIBED IN SECTION 17. FILTRATION SYSTEMS MUST DISCHARGE ALL STORMWATER ROUTED TO THE SYSTEM WITHIN 24 HOURS.

:. MINIMIZE THE DISCHARGE FROM CONNECTED IMPERVIOUS SURFACED BY DISCHARGING TO VEGETATED AREAS, OR GRASS SWALES, AND THROUGH THE USE OF NON-STRUCTURAL CONTROLS.

OFFICE AND HIMOSOFTHE USE OF TRANSPRINCE UPER CONTINUE.

IF PONDING IS USED, THE DESIGN MUST INCLUDE AN APPROPRIATE COMBINATION OF MEASURES SUCH AS SHADING,
VEGETATED SWALE DISCHARGES OR CONSTRUCTED WETLAND TREATMENT CELLS THAT LIMIT TEMPERATURE INCREASES. TH
POND MUST BE DESIGNED AS A DRY POND AND SHOULD DAWN DOWN IN 24 HOURS OR LESS.

OTHER METHODS THAT MINIMIZE ANY INCREASE IN THE TEMPERATURE OF THE TROUT STREAM, [MINN, R. 7090]

### 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 RECOURS AN INDIVIDUAL PERMIT TO CONTINUE THE CONSTRUCTION ACTIVITY, COVERAGE UNDER THIS GENERAL PERMIT WILL REMAIN IN EFFECT UNTIL THE MPCA ISSUES AN INDIVIDUAL PERMIT, MINN IN 7010.210, SUBP 6; 24.3 IF THE PERMITTEE CANNOT MEET THE TERMS AND CONDITIONS OF THIS GENERAL PERMIT, AN OWNER MAY REQUEST AN INDIVIDUAL PERMIT, IN ACCORDANCE WITH MINN, R, 7001.0210 SUBP. 6. [MINN, R, 7001.0210, SUBP. 6.]

24.4 ANY INTERESTED PERSON MAY PETITION THE MPCA TO REQUIRE AN INDIVIDUAL NPDES/SDS PERMIT IN ACCORDANCE WITH 40 CFR 122.28(B)(3). [40 CFR 122.29(B)(3)]

24.5 PERMITTEES MUST MAKE THE SWIPPP, INCLUDING ALL INSPECTION REPORTS, MAINTENANCE RECORDS, TRAINING RECORDS AND OTHER INFORMATION RECURSED BY THIS PERMIT, AVAILABLE TO FEDERAL, STATE, AND LOCAL OFFICIALS WITHIN THREE (3) YEARS FOLLOWING THE NOT. (MINN. R. 7980)

24.8 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]

THE NOTICE REQUIREMENTS OF TEMPS, AND 36, INNN, A. 170 EPAINTEES FROM CIVIL OR CRIMINAL PENALTIES FOR NONCOMPLIANCE WITH THE TERMS AND CONDITIONS PROVIDED HEREIN, NOTHING IN THIS PERMIT MUST BE CONSTRUCTED TO REPORT OF THE REPORT OF THE PENALTIES FOR NONCOMPLIANCE WITH THE TERMS AND CONDITIONS PROVIDED HEREIN, NOTHING IN THIS PERMIT MUST BE CONSTRUCTED TO PRECLUDE THE REPORT OF THE CLEAR WATER ACT AND THE PENALTY RESPONSIBILITIES, OR THE PENALTY REPORT OF THE CLEAR WATER ACT AND THE STATE OF THE CLEAR WATER ACT AND THE PENALTY REPORT OF THE CLEAR WATER ACT AND THE PENALTY REPORT OF THE P

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 PROVISION TO OTHER CINCUMSTANCES, AND THE REMAINDER OF THIS PERMIT MUST NOT BE AFFECTED THEREBY, [MINN. R, 709].

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 FRANTITEES MUST ALLOW ACCESS AS PROVIDED IN 40 CFR 122.41(I) AND MINN. STAT. SECT. 115.04 THE PERMITTEES MUST ALLOW REPRESENTATIVES OF THE MPGA OR ANY MEMBER, EMPLOYEE OR AGENT THEREOF, WHEN AUTHORIZED BY IT. UPON PRESENTATION OF CREDENTIALS, TO ENTER 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(I)) 42.4.1 FOR THE PURPOSES OF MINN. R. 7080 AND OTHER DOUGLEATTS THAT REFERENCE SECTIONS PIRIS PERMIT. "STORMWATER DISCHARGE DESIGN REQUIREMENTS" CORRESPONDS TO SECTIONS 5. 5 AND 14 THROUGH 21: "CONSTRUCTION ACTIVITY REQUIREMENTS" CORRESPONDS TO SECTIONS 7. THROUGH 13; AND "APPENDIX A" CORRESPONDS TO SECTIONS 22 AND 23. (MINN. R. 7080)

PROJECT LOCATION

PID: 29-32-23-22-0001 (1157 ANDOVER BLVD NE. HAM LAKE, MN)

### DEVELOPER

NARRATIVE - PERMANENT STORMWATER TREATMENT SYSTEMS THE PROJECT CONSISTS OF THE CONSTRUCTION OF 2 SINGLE-FAMILY RESIDENCE. EXISTING STORMWATER BASINS FOR STORMWATER TREATMENT ARE PROVIDED.

PERMANENT STORMWATER MANAGEMENT TREATMENT SYSTEMS PER MPCA RULES, CITY OF HAM LAKE, AND COON CREEK WATERSHED DISTRICT ARE REQUIRED FOR THIS

### SITE IMPERVIOUS AREAS (OVERALL LOT)

	BEFORE CONSTRUCTION	AFTER: CONSTRUCTION	
TOTAL SITE AREA	40.80 ACRES		
TOTAL ESTIMATED IMPERVIOUS	0.00 ACRES	1.58 ACRES	
TOTAL ESTIMATED PERVIOUS	40.79 ACRES	39.22 ACRES	

TOTAL DISTURBED AREA

### 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	WATER BODY	SPECIAL WATER	WATER
COON CREEK	CREEK	NO	YES
COUNTY DITCH 58	DITCH	NO	NO
COUNTY DITCH 11	DITCH	NO	NO
ON-SITE RAIN STORMWATER BASINS	BASIN	NO	NO.

### **BUFFER TO SURFACE WATER**

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

### TEMPORARY SEDIMENTATION BASINS

IF FIVE (5) OR MORE ACRES OF DISTURBED SOIL DRAIN TO A COMMON-LOCATION, IS A TEMPORARY SEDIMENT BASIN PROVIDED FOR TREATMENT OF THE RUNOFF BEFORE IT LEAVES THE CONSTRUCTION SITE OR ENTERS SURFACE WATERS?

ARE THERE ANY INFILTRATION RESTRICTIONS FOR THE SITE (SEE 16.14 INFILTRATION RESTRICTION RESTR

### ADDITIONAL STORMWATER MITIGATION MEASURES

ARE THERE ANY STORMWATER MITIGATION MEASURES PER:

- - ENVIRONMENTAL REVIEW DOCUMENT?
  - ENDANGERED SPECIES REVIEW?

  - OTHER LOCAL, STATE OR FEDERAL REVIEW?

IF YES TO ANY OF THE ABOVE, DESCRIBE THE MITIGATION MEASURES. FOR PURPOSES OF THIS PERMIT. MITIGATION MEASURES MEANS ACTIONS MECESSARY TO AVOID, MINURZE, OR MITIGATE FOR IMPACTS RELATED TO EROSION PREVENTION, SEDIMENT CONTROL, THE PERMANENT STORMWATER TREATMENT SYSTEM, POLLUTION PREVENTION MANAGEMENT MEASURES AND IRGES ASSOCIATED WITH THE PROJECT'S CONSTRUCTION ACTIVITY

### LONG TERM OPERATION AND MAINTENANCE OF PERMANENT STORMWATER FACILITIES

THE PERMANENT STORMWATER MANAGEMENT FACILITIES ARE PRIVATELY OWNED AND THE LONG-TERM OPERATIONS AND MAINTENANCE WILL BE PROVIDED BY THE OWNER. THE CITY OF PAM LAKE SHALL DOT BE RESPONSIEL FOR LONG-TERM OPERATIONS AND MAINTENANCE OF THE STORMWATER MANAGEMENT FACILITIES.

### REVEGETATION SPECIFICATIONS

ITEM		MNDOT SPECIFICATION/NOTES		
SOD		3878		
SEED"		3876		
* FOR TURF EST	ABLISHMENT			
0	OMMERCIAL TURF	MNDOT MIX 25-131 (220 LBS/ACRE)		
R	ESIDENTIAL TURF	MNDOT MIX 25-131 (120 LBS/ACRE)		
TEMPORARY	FALL COVER	MNDOT MIX 21-112 (100 LBS/ACRE)		
	SPRING/SUMMER	MNDOT MIX 21-111 (100 LBS/ACRE) MNDOT MIX 21-113 (110 LBS/ACRE) MNDOT MIX 22-111 (30.5 LBS/ACRE)		
SOIL	-BUILDING COVER			
	1-2 YEARS COVER			
2-5 YEARS COVER		MNDOT MIX 22-112 (40 LBS/ACRE)		
MULCH		3882 (TYPE 1 - DISC ANCHORED)		
FERTILIZER		3881		
WOOD FIBER BLANKET		3885 (CATEGORY 0).		

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

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

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

TYPE	QTY	UNIT
SILT FENCE	1,090	LINEAR FEET
RIP-RAP W. GEO-FABRIC		CUBIC YARDS
TURF REINFORCEMENT MAT (ENKAMAT)	-	SQUARE YARDS
SEED & MULCH (GENERAL)	0.5	ACRE
ROCK CONSTRUCTION ENTRANCE	2	EACH
SOD	-	SQUARE YARDS
EROSION CONTROL BLANKET		SQUARE YARDS
INLET PROTECTION	2	EACH

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

A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND SWPPP MUST BE AVAILABLE ON THE PROJECT SITE AT ALL TIMES.
 CONTRACTOR SHALL INSTALL SILT FENCE AS SHOWN ON PLAN.
 1.1 ADDITIONAL SILT FENCE MAY BE NECESSARY IF LOCAL CONDITIONS REQUIRE

2.1. ADDITIONAL BILT FENCE MAY BE NECESSARY IF LOCAL CONDITIONS REQUIRE
2.2. THE CONTRACTOR SHALL MAINTAIN SLIT FENCE, INCLUDING THE REMOVAL OF
ACCUMULATED SEDMENT, THROUGH COMPLETION OF BUILDING CONSTRUCTION
2.3. SILF FENCE SHALL REMAIN IN-PLACE UNTIL STEP HAS BEEN STABILIZED.
CONTRACTOR SHALL INSTALL THE ROCK CONSTRUCTION ENTRANCE WHEREVER
CONSTRUCTION TRAFFIC ENTERS ONTO EXISTING PAVED SUFFACES.
CONTRACTOR TO INSTALL TREE PROTECTION FENCING AS APPLICABLE.
CONTRACTOR SHALL DERFORM SITE GRADING ON AN AREA-BY-AREA BASIS TO
MINIMIZE UNSTABILIZED AREAS.
5.1. CONTRACTOR MUST IMMEDIATELY INITIATE STABILIZATION OF EXPOSED SOIL
AREAS, AS DESCHIBED IN TEM 8.4 OF THE PERMIT. AND COMPLETE THE
STABILIZATION WITHIN SEVEN (?) CALENDAR DAYS AFTER THE CONSTRUCTION
ACTIVITY IN THAT PORTION OF THE SITE TEMPORARILY OR PERMANENTLY
CEASES.
CONTRACTOR PROTECT PERMANENT STORMWATER MANAGEMENT FACILITIES

CEASES.

6. CONTRACTOR TO PROTECT PERMANENT STORAWATER MANAGEMENT FACILITIES FROM CONSTRUCTION RUN-OFF.

6.1. INFILTRATION SYSTEMS MUST NOT BE EXCAVATED TO FINAL GRADE UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN CONSTRUCTED AND FULLY STABILITED.

CONTRACTOR TO SHALL PAY SPECIAL ATTENTION TO ADJACENT PROPERTY LINES TO

CONTRACTOR TO SHALL PAY SPECIAL ATTENTION TO ADJACENT PROPERTY LINES TO ENSURE THE REDISION CONTROL PRACTICES INPLACE IN THOSE AREAS PREVENT MIGRATION OF SEDIMENT ONTO ADJACENT PROPERTIES.

ALL EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS OR IMPLEMENTED IN THE FIELD SHALL BE IN ACCORDANCE WITH THE CITY AND NPDES PHASE II PERMIT REQUIREMENTS.
CONTRACTOR TO PROVIDE ADDITIONAL SILT FENCE, BIOROLLS, EROSION CONTROL BLANKET, OR OTHER APPROVED EQUAL FOR ANY SLOPES THAT APPEAR TO BE FAILING

10. CONTRACTOR TO STABILIZE SOIL STOCKPILES; STABILIZATION SHALL BE INITIATED

11. CONTRACTOR SHALL FINAL GRADE SWALE AREAS UPON STABILIZATION OF UPSTREAM 12. CONTRACTOR SHALL BE RESPONSIBLE TO SWEEP/SCRAPE ADJACENT STREETS WHEN MATERIALS OR DEBRIS HAVE WASHED/FLOWED ONTO ADJACENT STREETS OR AS

DIRECTED BY CITY

13. COORDINATE SMALL UTILITIES INSTALLATIONS (GAS, PHONE, ELECTRIC, GAS, ETC.)
AFTER CURB & GUTTER INSTALLATION.

### LIST OF IMPAIRED WATERS:

THIS CREEK HAS AN EPA-APPROVED IMPAIRMENT FOR BENTHIC MACROINVERTEBRATE BIOASSESSMENTS & ESCHERICHIA COLI. THESE IMPAIRMENTS ARE CONSIDERED TO BE CONSTRUCTION RELATED PARAMETERS AND REQUIRE THE ADDITIONAL BEST MANAGEMENT PRACTICES FOUND IN ITEMS 23.9 & 23.10. REAS ARE EXPOSED, PROHIBITIONS, POLLUTION PREVENTION TH OUSEKEEPING, AND OTHER MANAGEMENT PRACTICES PUBLISHED BY STATE OR ESIGNATED AREA-WIDE PLANNING AGENCIES. [MINN. R. 7090]

"CONSTRUCTION ACTIVITY" MEANS ACTIVITIES INCLUDING CLEARING, GRADING, AND "CONSTRUCTION ACTIVITY" MEANS ACTIVITIES INCLUDING CLEARING, GRADING, AND EXCAVATING, ITAH TESULI II I LAND DISTURBANCE OF EQUAL TO OR GREATER THAN ONE ACRE, INCLUDING THE DISTURBANCE OF LESS THAN ONE ACRE OF TOTAL LAND AREA THAT IS PART OF A LARGER COMMON PLAN OF DEVELOPMENT OR SALE IF THE LARGER COMMON PLAN WILL ULTIMATELY DISTURB EQUAL TO OR GREATER THAN ONE ACRE. THIS INCLUDES A DISTURBANCE TO THE LAND THAT RESULTS IN A CHANGE IN THE TOPOGRAPHY, EXISTING SOIL COVER, BOTH VEGETATIVE AND NORVEGETATIVE, OR THE EXISTING SOIL. RAPHY THAT MAY RESULT IN ACCELERATED STO AWATER RUNOFF THAT MAY LEAD TO SOIL EROSION AND MOVEMENT OF SEDIMENT. CONSTRUCTION ACTIVITY DOES OF INCLUDE A DISTRIBANCE 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 HIGLUDE ACTIVITIES SUCH AS REPRIRE, REPLACEMENT AND OTHER TYPES OF NDERLYING SOILS (E.G., MILL AND OVERLAY PROJECTS) IS NOT CONSTRUCTION ACTIVITY

DEWATERING\* MEANS THE REMOVAL OF SURFACE OR GROUND WATER TO DRY AND/OR SOLIDIEY A CONSTRUCTION SITE TO ENABLE CONSTRUCTION ACTIVITY. DEWATERING M. REQUIRE A MINNESOTA DEPARTMENT OF NATURAL RESOURCES WATER APPROPRIATE. PERMIT AND, IF 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 SOIL STABILIZATION PRACTICES, PERMANENT COVER OR CONSTRUCTION PHASING.

THE OWNER OF THE CONTRACTOR' MEANS THE PARTY WHO SIGNS THE CONSTRUCTION CONTRACT WITH THE OWNER TO CONSTRUCT HIS ENTIRE PROJECT DESCRIBED IN THE FINAL PLANS AND SPECIFICATIONS. WHERE THE CONSTRUCTION PROJECT INVOLVES MORE THAN ONE CONTRACTOR. THE GENERAL CONTRACTOR IS THE PARTY RESONSIBLE FOR MANAGING THE PARTY RESPOJECT ON BEHALF OF THE OWNER. IN STOKE CASES, THE OWNER IS THE ENERAL CONTRACTOR, IN THESE CASES, THE OWNER SIGNS THE PERMIT APPLICATION AS THE OPERATOR AND BECOMES THE SOLE PERMITTEE. [MINN. R. 7090]

GROUNDWATER MEANS THE WATER CONTAINED BELOW THE SURFACE OF THE EARTH IT THE SATURATED ZONE INCLUDING, WITHOUT LIMITATION, ALL WATERS WHETHER UNDER CONFINED, UNCONFINED, OR PERCHED CONDITIONS, IN NEAR SURFACE UNCONSOLIDATE DIMENT OR REGOLITH, OR IN ROCK FORMATIONS DEEPER UNDERGROUND, IMINN, R

HOMEOWNER FACT SHEET\* MEANS AN MPCA FACT SHEET AVAILABLE ON THE MPC CONSTRUCTION STORMWATER WEBSITE FOR PERMITTEES TO GIVE TO HOMEOWN THE TIME OF SALE, [MINN, R. 7080]

NFEASIBLE' MEANS NOT TECHNOLOGICALLY POSSIBLE OR NOT ECONOMICALLY RACTICABLE AND ACHIEVABLE IN LIGHT OF THE BEST INDUSTRY PRACTICES. [MINN. R.

"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 ADV WHEN THE LAND-DISTURBING ACTIVITIES TEMPORARILY OR PERMANENTS. CEASE, IF THE PERMITTEES KNOW THAT CONSTRUCTION WORK ON THAT PORTION OF THE SITE WILL BE TEMPORARILY CEASE DOR 14 OR MORE ADDITIONAL CALENDAR AS OR 7 CALENDAR DAYS WHERE ITEM 259 APPLIES PERMITTEES CAN INITIATE STRUILIZATION 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

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 COMPLIANCE WITH THE APPLICABLE

DEADLINE FOR COMPLETING STABILIZATION, (MINN, R. 7090)

TWPERVIOUS SURFACE' MEANS A CONSTRUCTED HARD SURFACE THAT EITHER PREVENTS OR RETARDS THE ENTRY OF WATER INTO THE SOIL AND CAUSES WATER TO RUN OFF THE SURFACE IN GREATER CUANTITIES AND AT AN INCREASED PAITE OF FLOW THAN PRIOR TO DEVELOPMENT. EXAMPLES INCLUDE ROOFTOPS, SIDEWALKS, DRIVEWAYS, PARKING LOTS, AND CONCRETE, ASPHALT, OR GRAVEL ROADS, BRIDGES OVER SURFACE WATERS ARE CONSIDERED IMPERVIOUS SURFACES. [MINN. R, 7090]

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)' MEANS THE PROGRAM FOR ISSUING, MODIFYING, REVOKING, REISSUING, TERMINATING, MONTORING, AND INFORCING PERMITS UNDER THE CLEAN WATER ACT, AS AMENDED (33 U.S.C. 1251 ET SEQ SECTION 1922 AND 40 CFR PARTS 122, 123, 124 AND 450), [MINN R. 7091]

"NATURAL BUFFER" MEANS AN AREA OF UNDISTURBED COVER SURROUNDING SURFACE WATERS WITHIN WHICH CONSTRUCTION ACTIVITIES ARE RESTRICTED. NATURAL BUFFER INCLUDES THE VEGETATION, EXPOSED ROCK, OR BARREN GROUND THAT EXISTS PRIOR TO COMMENCEMENT OF EARTH-OISTURBING ACTIVITIES, IMNN. R. 7080]

"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, EASEMENT, OR MINERAL RIGHTS LICENSE HOLDER, THE PARTY OR INDIVIDUAL IDENTIFIED AS THE LEASE. EASEMENT, OR MINERAL RIGHTS LICENSE HOLDER, OR THE CONSTRUCTION ACTIVITY (MINN. R. 7090) AGENCY RESPONSIBLE FOR THE CONSTRUCTION ACTIVITY (MINN. R. 7090).

PERMANENT COVER\* MEANS SURFACE TYPES THAT WILL PREVENT SOIL FAILURE UNDER EROSIVE CONDITIONS. EXAMPLES INCLUDE: GRAVEL, CONCRETE, PERENNIAL COVER, OR OTHER LANDSCAPED MATERIAL. THAT WILL PERMANENTLY ARREST SOIL RENGSION. PERMITTEES MUST ESTABLISH A UNIFORM PERENNIAL VEGETATIVE COVER (IE. EVENLY DISTRIBUTED, WITHOUT LANGE BARE ARRAS) WITH A DENSITY OF 70 PERCENT OF THE DISTRIBUTED, WILTIDUT DURING BARK ARKAS) WITH A DENSITY OF 70 PERCENT OF THE NATIVE BACKGROUND VEGETATIVE COVER ON ALL AREAS NOT COVERE DE YPERMANENT STRUCTURES, OR EQUIVALENT PERMANENT STABILIZATION MEASURES, PERMANENT COVER DOES NOT INCLUDE TEMPORARY BANPS SUCH AS WOOD FIBER BLANKET, MULCH, AND ROLLED EROSION CONTROL PRODUCTS. [MINN. R. 7080]

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

"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]

ERRAIN INC. I FROTE, INFO, ININEN, R. 7000]

"STABILIZE", "STABILIZED", "STABILIZATION" MEANS THE EXPOSED GROUND SURFACE HAS BEEN COVERED BY APPROPRIATE MATERIALS SUCH AS MULCH, STAKED SOD, RIPRAP, EROSION, CONTROL BLANKER, MATS OR OTHER MATERIAL THAT PREVENTS EROSION FROM COCURRING, GRASS SEEDING, AGRICULTURAL CROP SEEDING OR OTHER SEEDING ALONE IS NOT STABILIZATION, PULCH MATERIALS MUST ACHIEVE APPROXIMATELY SO PERCENT GROUND COVERAGE (TYPICALLY 2 TON/ACRE). [MINN. R. 7050]

"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 STORMMATER 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]

BMPS AND PERMANEN STURMMYATER ITECH MERTI AND STEADS, IMMERICAL MARSHES,
SURFACE WATER OR WATERS "MEANS ALL STREAMS, LAKES, PONDS, MARSHES,
WETLANDS, RESERVOIRS, SPRINGS, RIVERS, DRAINAGE SYSTEMS, WATERWAYS,
WATERCOURSES, AND IRRIGATION SYSTEMS WHETHER RAVIDAL OR ARTIFICIAL, PUBLIC
OR PRIVATE, EXCEPT THAT SURFACE WATERS DO NOT INCLUDE STORKWATER
TREATMENT SYSTEMS CONSTRUCTED FROM UPLAND. THIS PERMIT DOES NOT CONSIDER
STORKWATER 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 MINN. STAT. SECT. 115.01, SUBP 22) MEANS ALL STREAMS, LAKES, PONDS, MARSHES, WATERCOURSES, WATERWAYS, WELLS, SPRINGS, RESERVOIRS, AGUIFERS, IRIGIATION SYSTEMS, ORAINAGE SYSTEMS AND ALL OTHER RESERVOIRS, AQUIFERS, IRRIGATION SYSTEMS, DRAINAGE SYSTEMS AND ALL OTHER BODIES OR ACCUMULATIONS OF WATER. SURFACE OR INDERGROUND, NATURAL OR ARTIFICIAL, PUBLIC OR PRIVATE, WHICH ARE CONTAINED WITHIN, PLOW 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), IMINA R. 7090]

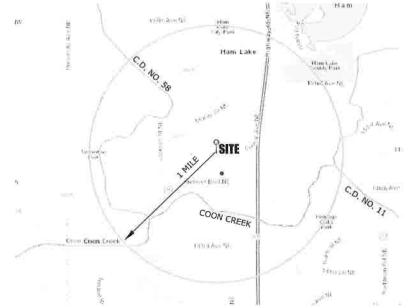
"WETLANDS" (AS DEFINED IN MINN, R. 7050.0186, SUBP. 1A.B.) MEANS THOSE AREAS THAT ARE INUNDATED OR SATURATED BY SURFACE WATER OR GROUNDWATER ATA FREQUENCY AND DURATION SUFFICIENT TO SUPPORT, AND UNDER NORMAL CIRCUMSTANCES DO SUPPORT, A PREVALENCE OF VEGETATION TYPICALLY ADAPTED FOR LINLUMNI ANCES DUS SUPPORT, A PREVALENCE OF VEGETATION TYPICALLY AGAPTED FOR LIFE IN SATURATED SOIL CONDITIONS, WELLANDS GENERALLY INCLUDE SYMAMPS, MARSHES, BOGS, AND SIMILAR AREAS, CONSTRUCTED WETLANDS DESIGNED FOR WASTEWATER TREATMENT ARE NOT WATERS OF THE STATE, WETLANDS MUST HAVE THE FOLLOWING ATTRIBUTES.

1. A PREDOMINANCE OF HYDRIC SOILS; AND

2 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

UNDER NORMAL CIRCUMSTANCES SUPPORT A PREVALENCE OF SUCH VEGETATION. [MINN. R. 7050.0186. SUBP. 1A.B]

### **MAP OF SURFACE WATERS**



STORM WATER POLLUTION PREVENTION PLAN MAGERS MEADOWS

M.Q.A. C.W.P. ICKO BY PROJ. NO M.Q.A 2017 GINAL DATE **FEBRUARY 9, 2022** 

LAKE

REPARED FOR: GERALD MAGER



PLOWE ENGINEERING, INC.

LINO LAKES, MN 55014 PHONE: (651) 361-8210 FAX: (651) 361-8701

(651) 361-8234 ADAM@plove.com

INDIVIDUAL WHO PREPARED THE SWPPP ADAM GINKEL PLOWE ENGINEERING, INC. 6776 LAKE DRIVE LINO LAKES MN 55014

DOCUMENTATION OF TRAINED INDIVIDUALS

University of Minnesota

Design of Construction SWPPP (May 31 2023)

Management

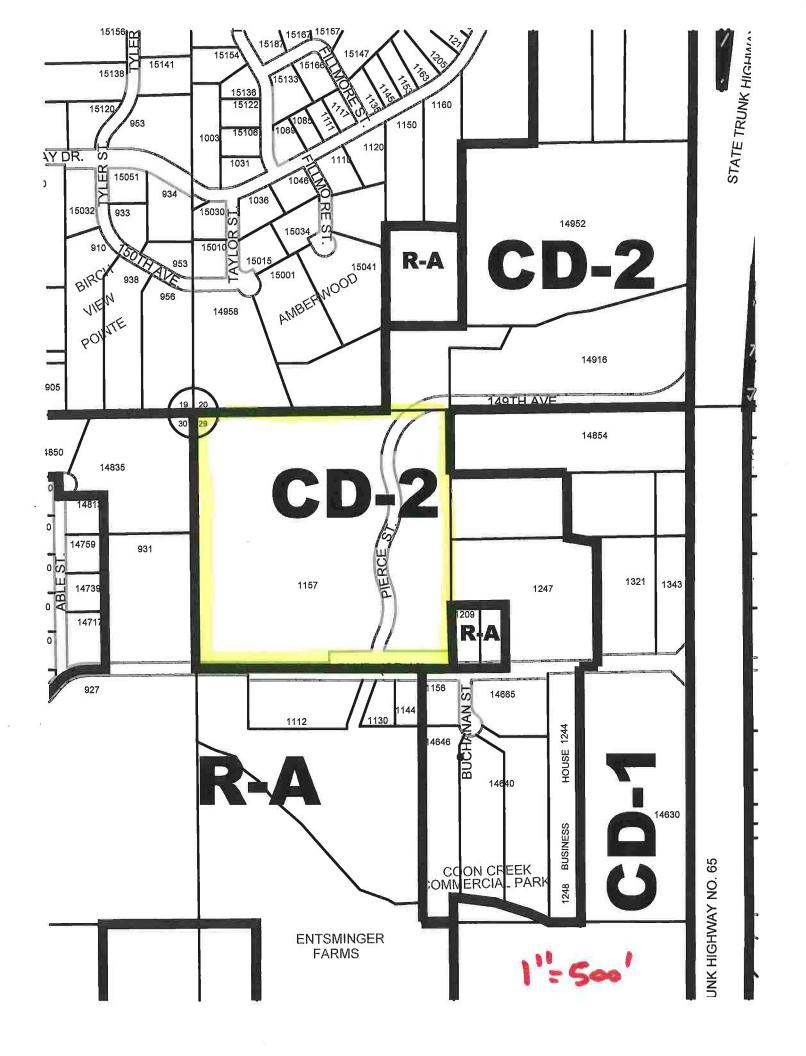
8. INDIVIDUAL(S) OVERSEEING IMPLEMENTATION OF, REVISING AND/OR AMENDING THE SWPPP AND INDIVIDUALS PERFORMING INSPECTIONS FOR THE PROJECT, ONE OF THESE PHOVIDUALS MUST BE AVAILABLE FOR AN ONSITE INSPECTION WITHIN 72 HOURS UPON REQUEST BY THE MPCA. [MINN. R. 7080] Erosion and Stormwater NAME COMPANY

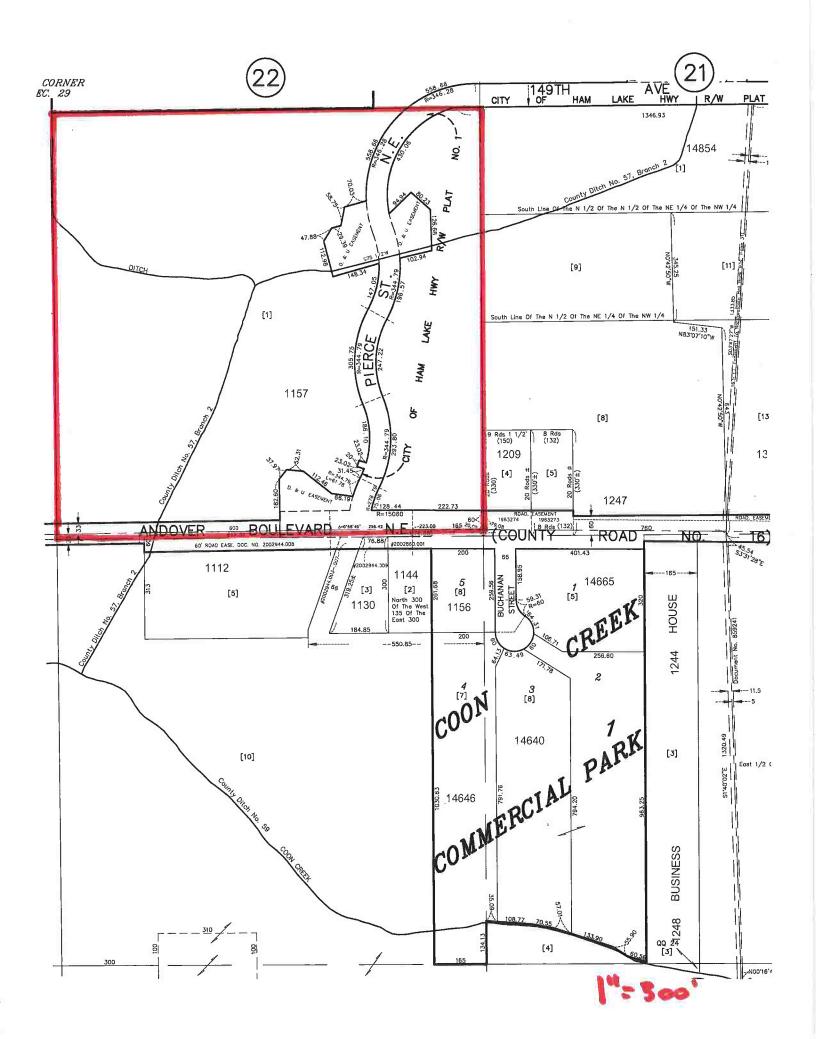
ADDRESS 1 ADDRESS 2 PHONE

INDIVIDUAL(S) PERFORMING OR SUPERVISING THE INSTALLATION, MAINTENANCE AN REPAIR OF BMPS. [MINN. R. 7680] NAME

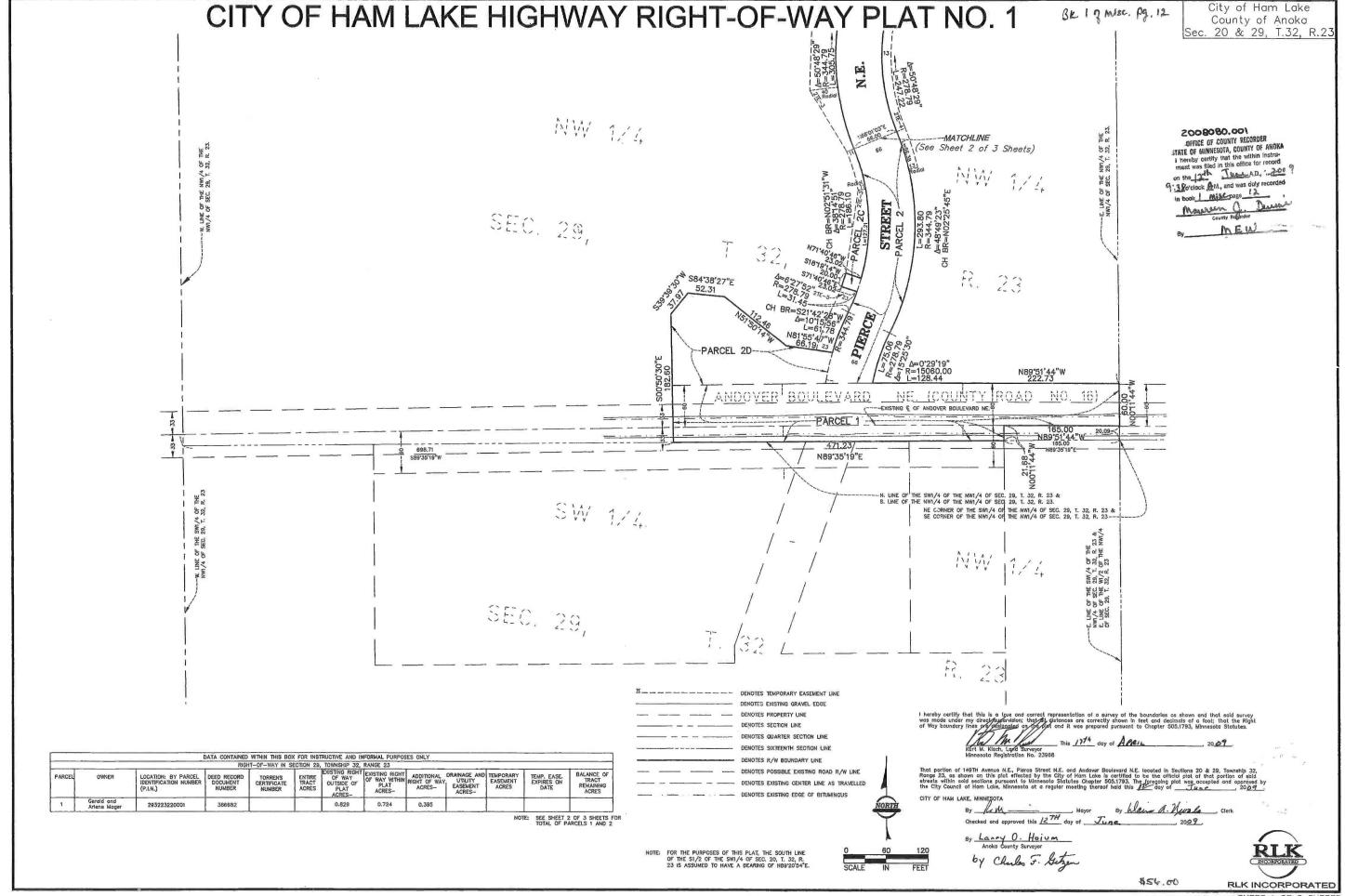
COMPANY ADDRESS 1 ADDRESS 2

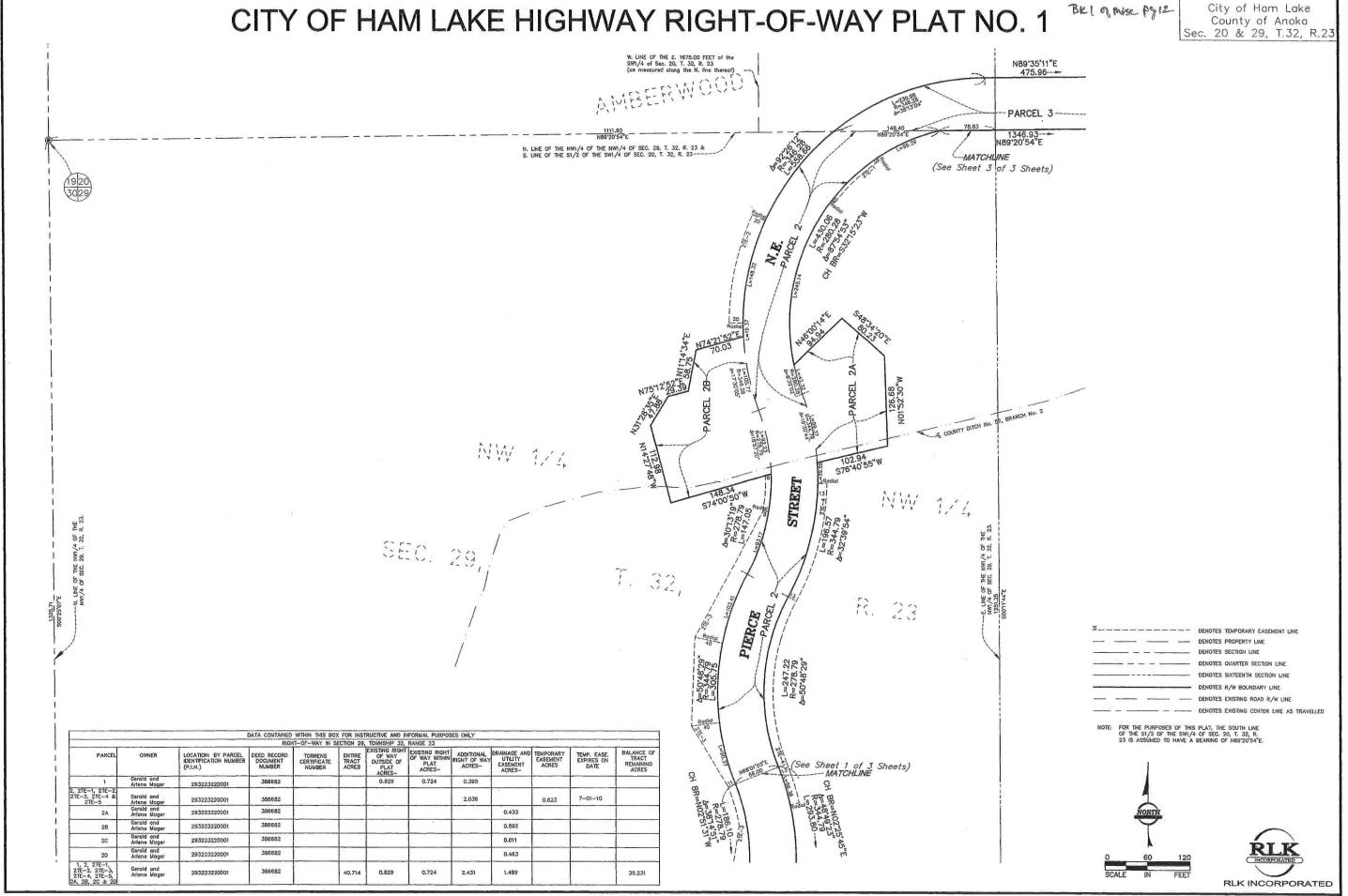
### **MAGERS MEADOWS** City of Ham Lake **County of Anoka** KNOW ALL PERSONS BY THESE PRESENTS: That Gerold A. Mager and Ariene H. Mager as Trustees of the Mager Trust, doted August, 2008, Sec. 29, T32, R23 BIRCH AMBERWOOD The Northwest Quarter of the Northwest Quarter of Section 29, Township 32, Ronge 23, Anoka County, Minnesota, 11/2 Have caused the same to be surveyed and platted as MAGER MEADOWS and do hereby dedicate to the public for public use the public ways and the drainage and utility easements as shown by this plat. Also dedicated to the County of Anoka the right of access onto County Road No. 16 as shown on this plat. PARK. POMITE AVENUE N.E. NORTH LINE OF THE NW 1/4 OF THE NW 1/4 SEC, 29-T.32-R.23 NW CORNER OF SEC. 29-T.32-R.23 FOUND 1/2 INCH PIPE RLS NO. 4427 S89°20'54"W 1340.14 In witness whereof said Gerald A. Mager and Arlene H. Mager as Trustees of the Mager Trust, dated August, 2008, have hereunto set NORTH 1/4 CORNER OF SEC. 29-T.32-R.23 (CAST IRON MONUMENT) 78.83 NORTHWEST CORNER OF SEC. 29-T.32-R.23 (ZINCH SQUARE STEEL TELSPAR) 1111.90 Gerold A. Moger, Trustee of the Arlene H. Moger, Trustee of the Moger Trust, dated August, 2008. STATE OF MINNESOTA This instrument was acknowledged before me this as Trustees of the Mager Trust, dated August, 2008. \_\_ day of \_\_\_\_ \_\_\_\_\_\_ 20\_\_\_\_\_ by Gerald A. Mager and Arlene H. Mager BLOCK Notary Public, My Commission Expires \_\_ DRAINAGE AND UTILITY EASEMENT PER CITY OF HAM LAKE HIGHWAY RIGHT-OF-WAY PLAT NO.1 I Jason E. Rud do hereby certify that this plot was prepared by me or under my direct supervision; that I am a duly Licensed Land Surveyor in the State of Minnesota; that this plot is a correct representation of the boundary survey; that all mothematical data and labels are correctly designated on this plot; that all monuments depicted on this plot have been, or will be correctly set within one year; that all water boundaries and wet lands, as defined in Minnesota Statutes, Section 505.01, Subd. 3, as of the date of this certificate are shown and labeled on this plot; and all public ways are shown and Doted this \_\_\_\_ day of \_\_ Joson E. Rud, Licensed Land Surveyor STATE OF MINNESOTA This instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_ by Jason E. Rud. 305.75 Notary Public, \_ County, Minnesota BLOCK My Commission Expires City Council, City of Ham Lake, Minnesota WEST LINE OF THE OF THE NW 1/4 SEC, 29-T.32-R.23 This plot of MAGER MEADOWS was approved and accepted by the City Council of the City of Harn Lake, Minnesoto at a \_\_\_, and sold plat is in compliance with regular meeting thereof held this \_\_\_\_\_ day of the provisions of Minnesota Statutes, Section 505.03, Subd. 2. City Council, City of Ham Lake, Minnesota C.L. = 106,25 C.B. = S17°58'22"W A=17°43'38" R=344.79 106.68 County Surveyor C.L. = 74.83 C.B. = \$19°07'18"W A=15°25'30" R=278.79 - 75.06 A=0°29": R=15060 COUNTY DITCH NO. 57, BRANCH 2 I hereby certify that in occordance with Minnesota Statutes, Section 505.021, Subd. 11, this plat has been reviewed and Δ=0°29'19" R=15060.00 --- 128.45 approved this \_\_\_\_\_ day of \_\_\_ N89°51'44"W 0 N89°09'30' David M. Zieglmeier \_\_ <u>∆117,58</u> i Anoka County Surveyor (COUNTY ROAD NO. 16) N.E. ANDOVER BOULEVARD Δ=0°58'46" 256.42 R=15000.00 N89°09'30"E B55.62 County Auditor/Treasurer -16.07 Pursuant to Minnesota Statutes, Section 505.021, Subd. 9, taxes payable in the year 20\_\_ on the land hereinbefore described have been paid. Also, pursuant to Minnesota Statutes, Section 272.12, there are no delinquent taxes and transfer entered this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_, N89°35'19"E | 1335.01 ANDOVER BOULEVARD NE (COUNTY ROAD NO 16) FOUND 1/2 INCH PIPE RLS NO. 41578 - CENTERLINE OF COUNTY ROAD NO. 16 ENTEMNISER DRAINAGE AND UTILITY EASEMENTS ARE SHOWN THUS: Property Tax Administrator DENOTES ANOKA COUNTY SECTION MONUMENT Deputy DENOTES SET 1/2 INCH BY 14 INCH IRON PIPE MARKED BY RLS NO. 41578 DENOTES FOUND IRON MONUMENT, AS NOTED County Recorder/Registror of Titles BEING 10 FEET WIDE ON EACH SIDE OF ALL LOT LINES UNLESS OTHERWISE SHOWN ON THIS PLAT. DENOTES RIGHT OF ACCESS DEDICATED County of Anoka, State of Minnesota TO ANOKA COUNTY DENOTES WETLAND DELINEATED BY JACOBSON ENVIRONMENTAL SEGUAL I hereby certify that this plot of MAGER MEADOWS was filed in the office of the County Recorder/Registrar of Titles for public JACOBSON ENVIRONMENTAL SERVICES record on this \_\_\_\_\_ day of Number \_\_, 20\_\_\_, at \_\_\_\_\_ o'clock \_\_\_\_,M. and was duly recorded as Documen IN SEPTEMBER 2014 三角彩烟色 GRAPHIC SCALE County Recorder/Registror of Titles FOR THE PURPOSES OF THIS PLAT THE WEST LINE OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 29, TOWNSHIP 25, RANGE 23 ASSUMED TO HAVE A BEARING OF SOUTH OD DEGREES 25 MINUTES 07 SECONDS EAST. \_\_, Deputy Professional Land Surveyors 1 INCH = 100FEET

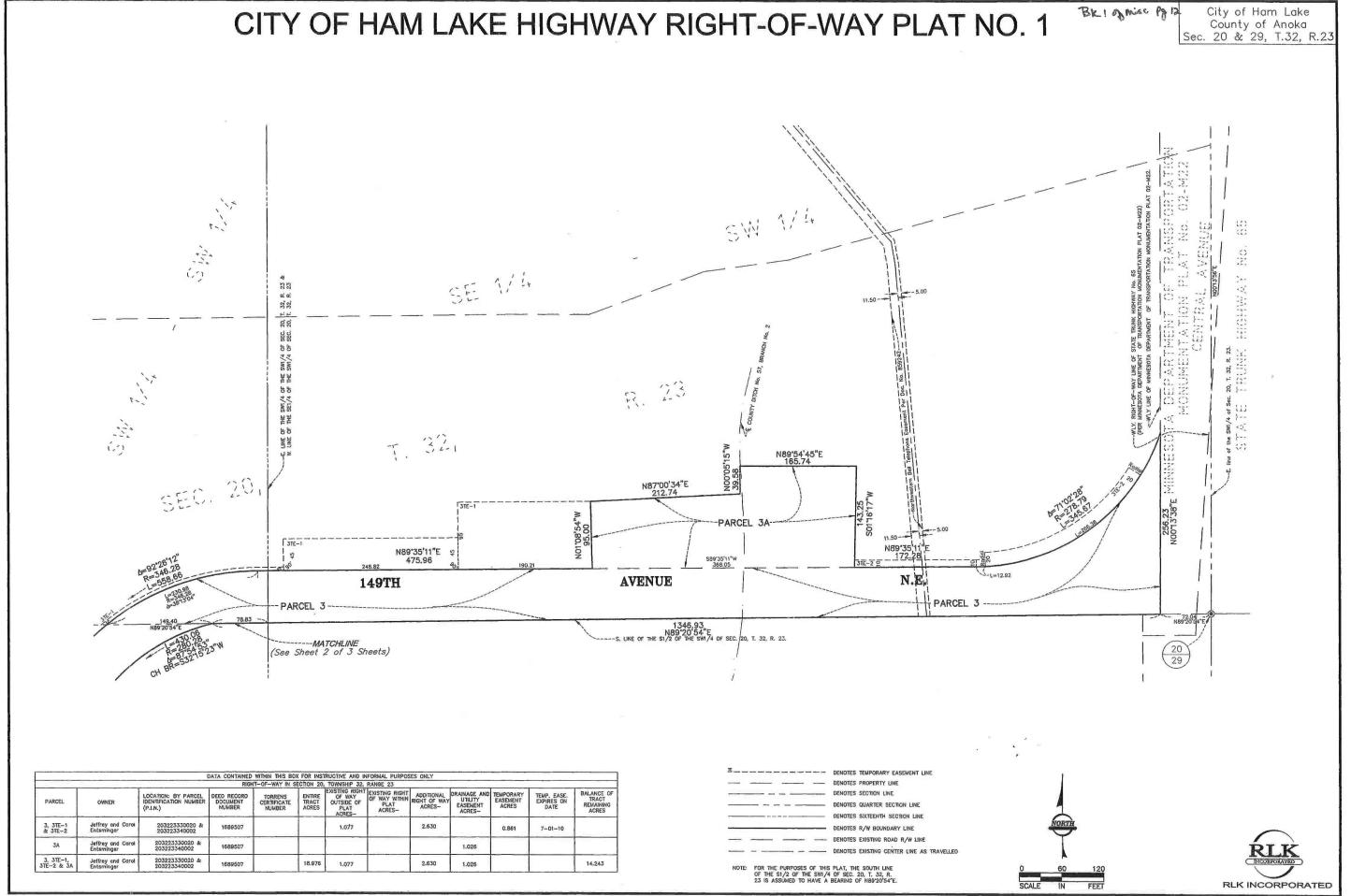












# Tradewell Soil Testing 18330 Dahlia Street NW Cedar, MN 55011 # (763) 286-9095

May 4th, 2022

Re: 1157 Andover Blvd. NE, Ham Lake, MN 55304

1 Julwell

A compliance Inspection Report was requested by RFC Engineering for the property above for platting of the property. After interviewing the homeowner, I found out that the system is very old and has a block cesspool type tank. As far as compliance goes, this an automatic fail.

The system is functioning fine and is not discharging effluent to the surface or backing up in the home. Therefore it is not an imminent threat to public safety, however it is not protecting groundwater.

Based on this information, the system will need to be replaced within 24 months of this notice as per City of Ham Lakes ordinance. This will be on file with the City of Ham Lake as notification of such. I do not believe that we need to do a formal compliance inspection report to identify these items.

Sincerely.

Mark Tradewell

**MPCA #307** 



Jennifer Bohr City of Ham Lake 15544 Central Avenue NE Ham Lake, MN 55304

April 28, 2022

RE: Preliminary Plat - Magers Meadows

Dear Jennifer,

We have reviewed the Preliminary Plat for Magers Meadows, to be located north of CR 16 (Andover Boulevard NE) and at Pierce Street NE within the city of Ham Lake, and I offer the following comments:

The existing right of way along CR 16 varies from 33 feet to 60 feet north of centerline. An additional 27 feet of right of way along CR 16 will be required where needed for future reconstruction purposes (60 feet total right of way width north of CR 16). As proposed, the plat will not introduce any new residential access points onto CR 16 and all lots will gain access via City streets. No new access points onto CR 16 will be permitted for this plat and the right of access along CR 16 should be dedicated to Anoka County with exception for existing Pierce Street NE which has a WB CR 16 right turn lane and EB CR 16 bypass lane already in place. Internal site grading shall not commence until the required ACHD Engineering plan approvals are received and the applicable permits can be issued. If there will be any utility relocation on CR 16, it will be required to be completed by the City/developer as a part of the ACHD Engineering Plan Review process. County Ditch #57, Branch 2 runs through the middle of the property, and this ditch may not be altered without first submitting detailed plans to the appropriate agencies and obtaining their permission as well as permission from the County Engineer. Please note that no plantings or private signs will be permitted within the county right of way and care must be exercised when locating private signs, buildings, structures, plantings, berms, etc. outside of the county right of way, so as not to create any new sight obstructions for this section of CR 16.

ACHD would like to work with local governments in promoting compatibility between land use and the county highway system. It should be recognized that residential land uses located adjacent to County highways often results in complaints about traffic noise. Existing and/or future traffic noise from CR 16 could exceed noise standards established by the Minnesota Pollution Control Agency (MPCA), the U.S. Department of Housing and Urban Development, and the U.S. Department of Transportation. Minnesota Rule 7030.0030 states that municipalities are responsible for taking all reasonable measures to prevent land use activities listed in the MPCA's Noise Area Classification (NAC) where establishment of the land use would result in violations of established noise standards. It is advised that the City and the Developer assess the noise situation for this development as it is proposed to be located directly adjacent to CR 16, and take the level of action deemed necessary to minimize the impact of any highway noise by incorporating the appropriate noise mitigation elements into the design and phasing of this plat as applicable.

If there will be any grading within or affecting the county right of way, the ACHD Engineering Plan Review process will apply to this site. Calculations must be submitted along with a grading and erosion control plan that delineates the drainage areas for this development. The post-developed rate/volume of runoff must not exceed the predeveloped rate/volume of runoff for the 10-year critical design storm. Contact Brandon Ulvenes, Engineer I, via phone at 763.324.3159 or via email at Brandon.Ulvenes@co.anoka.mn.us for further information and to coordinate the ACHD Engineering Plan Review Process. Please submit the drainage calculations, grading and erosion control plans, ACHD Design Requirements Checklist for County Highway Modifications (copy available via our website), and the applicable engineering plan review fee (estimated at \$150.00 if applicable) to Mr. Ulvenes for his review and approval.

If any work will be performed in the County Right of Way, a Permit for Work within the County Right of Way (\$150.00) must be obtained prior to the commencement of any construction. License permit bonding, methods of construction, design details, work zone traffic control, restoration requirements and follow-up inspections are typical elements of the permitting process. Contact Sue Burgmeier of the ACHD Permit Office at 763.324.3142 or via email at <a href="mailto:Susan.Burgmeier@co.anoka.mn.us">Susan.Burgmeier@co.anoka.mn.us</a> for further information and to coordinate the ACHD Permit process.

Thank you for the opportunity to comment. Feel free to contact me if you have any questions regarding this review.

Sincerely,

Logan Keehr

Traffic Engineering Technician

xc: CR 16/Plats+Developments/2022
Jerry Auge, Assistant County Engineer
Jane Rose, Traffic Engineering Manager
David Zieglmeier, County Surveyor
Sean Thiel, Graduate Engineer
Sue Burgmeier, Traffic Engineering Technician
Brandon Ulvenes, Engineer I

### **Tom Collins**

From:

Charles Plowe Sr <chuck@plowe.com>

Sent:

Tuesday, May 24, 2022 3:28 PM

To:

Tom Collins; David Krugler

Subject:

FW: Magers Meadows (Ham Lake) Plans & Document Submission - To City & CCWD

(4.14.22)

From: Brandon T. Ulvenes <Brandon.Ulvenes@co.anoka.mn.us>

Sent: Tuesday, May 24, 2022 2:53 PM

To: Mohammad Abughazleh <moe@PLOWE.COM>

Cc: Charles Plowe Sr <chuck@plowe.com>; Marty Fisher (mfisher@premiercommercialproperties.com)

<mfisher@premiercommercialproperties.com>; JERRY & ARLENE MAGER <mager95@aol.com>

Subject: RE: Magers Meadows (Ham Lake) Plans & Document Submission - To City & CCWD (4.14.22)

Hi Mohammad -



After having some internal conversations, we do not feel like the County needs to review these plans, as the work/drainage will not impact the County right-of-way nor are there any improvements planned for the County system.

Have a good afternoon, Brandon

From: Mohammad Abughazleh < moe@PLOWE.COM>

Sent: Tuesday, May 10, 2022 10:50 AM

To: Brandon T. Ulvenes < Brandon. Ulvenes@co.anoka.mn.us >

Cc: Charles Plowe Sr <chuck@plowe.com>; Marty Fisher (mfisher@premiercommercialproperties.com)

<mfisher@premiercommercialproperties.com>; JERRY & ARLENE MAGER <mager95@aol.com>

Subject: RE: Magers Meadows (Ham Lake) Plans & Document Submission - To City & CCWD (4.14.22)

Good morning,

I have like 3 more review comments to take care of per the latest review I received last Friday. If you would like/need to review this job, please feel free to review the documents in the Dropbox link below. Discharge has increased to the Ditches (no issue with CCWD and the City barring a CFS item related to the EOF) but no discharge or changes have occurred to the actual street. Everything is going to the existing BMPs on site. Let me know if you need anything else. Thanks, Brandon.

Sincerely,

Mohammad Abughazleh, P.E. PLOWE ENGINEERING, INC. (651) 361-8210 (Office) (651) 361-8237 (Direct) moe@plowe.com

From: Brandon T. Ulvenes < Brandon. Ulvenes@co.anoka.mn.us>

Sent: Monday, May 9, 2022 3:52 PM

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

Project:

Magers Meadows

Date:

April 20, 2022

**Applicant:** 

Gerald Mager

1157 Andover Blvd NE Ham Lake, MN 55304

Permit Application#:

P22-041

Purpose:

Construction of 2 single family residences

Location:

1157 Andover Blvd NE, Ham Lake

At their meeting on April 11, 2022, the Board of Managers of the Coon Creek Watershed District **conditionally approved** the above referenced project with 3 conditions and no stipulations. **This is NOT a permit.** 

Since your last submittal on 4/15/2022, the following 2 conditions remain which must be addressed before permit issuance (please see note below on how to address conditions).

1. Receipt of escrows.

2. Provide confirmation that the City has reviewed the proposed project and that no significant changes are anticipated to the plans as a result of their review. If significant changes are required, additional board review and approval may be required.

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 Rule 5.1. If you have any questions, please call 763-755-0975.

Sincerely,

Erin Edison

Watershed Development Coordinator

cc:

File P22-041

Eileen Weigel, Stantec Danielle Tourtillott, Stantec Tom Collins, City of Ham Lake

**Note:** Please respond to each of these items in writing when resubmitting the revised plans to the District. Resubmittals can be sent via email to permitsubmittals@cooncreekwd.org. **Please submit written responses below the original typed comments, using extra sheets as necessary, addressing comments from the District.** If you have any questions, feel free to contact Erin Edison at (763) 755-0975. Pursuant to Coon Creek rule 7.3 deficiencies must be addressed and resubmitted within 60 days. Failure to so shall be deemed a withdrawal of the permit application.