

Meeting: Board of Managers
Meeting date: 4/10/2025
Agenda Item #: 10.2

Item type: Permit

Title: Permit 25-056: 9501 Lakewood Circle, Laketown Township – Exception Request

Prepared by: Name: Maggie Menden – Permitting Technician

mmenden@minnehahacreek.org

Recommendation

- Approval of the Minnehaha Creek Watershed District (MCWD) permit on the following conditions:
- Submittal of draft amended Maintenance Declaration for Stormwater Management (to include new swales) and Wetland Buffers for District review, submittal of final document showing filing with Carver County recorder
- Payment of District fees (application, mailing, engineering fees)

Project Scope and Setting

Proposed Project

Terrain Holdings LLC ("Applicant") has applied for a Minnehaha Creek Watershed District (MCWD) permit to construct a new single-family home and associated driveway at 9501 Lakewood Circle in Laketown Township.

This permit (25-056) represents the second phase of work on this site. The initial phase, permit 23-272, involved construction of a driveway and pole barn, resulting in 1.75 acres of new impervious surface. Permit 23-272 was reviewed, publicly noticed, and approved in October 2024. Construction is now complete and in the process of permit closeout.

Phase 2 (permit 25-056) proposes construction of a single-family residential structure and a driveway that connects to the previously developed area.

All work on the site is considered, in aggregate, as part of a Common Plan of Development under the District's Stormwater Management Rule, and will be referred to as the "development" throughout this memo.

Location and Hydrology

9501 Lakewood Circle is a 61.89-acre parcel in Laketown Township, located on the western side of Piersons Lake, which is within the Six Mile Creek-Halsted Bay Subwatershed.

On the site, there are two wetlands. Wetland 1 is located in the row crop area, between Laketown Road and the existing driveway. Wetland 2 is located between the proposed house and Piersons Lake. According to the MCWD Functional Assessment of wetlands, Wetland 1 is classified as Manage 3 wetland and Wetland 2 is classified as a Manage 2 wetland.

Roughly 77% of the site ultimately drains to Piersons Lake and 23% drains south to a depression. The development as a whole does not propose to change these drainage patterns.

Historically, the site has been used for agricultural purposes. The proposed use will be a mixed-use property, incorporating both agricultural activities and a new residential dwelling. Carver County has zoned this parcel as agricultural, which allows for a residential structure.

Regulatory Framework and Applicable Rules

Permit 25-056 is subject to MCWD's regulations for Erosion Control, Wetland Protection, and Stormwater Management.

The Erosion Control Rule applies due to land disturbance area greater than 5,000 square feet. The Stormwater Management Rule is applicable due to the increase of impervious surface in the aggregate amount of the entire development. The Wetland Protection rule, specifically the requirement to establish and maintain vegetated wetland buffer, applies due to the construction of a new residential structure upgradient from the lower wetland (Wetland 2).

Staff and the District Engineer have reviewed and found the application to be compliant with the Erosion Control and Wetland Protection Rules.

Proposed Exception

The applicant is proposing to meet the Stormwater Management Rule via an Exception pursuant to the MCWD's Variances and Exceptions rule. The applicant proposes to omit required volume control for the impervious surface from the proposed house and driveway. Instead, the applicant is proposing an alternative approach that would achieve a greater degree of volume control and water quality treatment than would strict compliance with the volume control standard.

Public Request for Board Review

This permit is being presented to the Board of Managers for consideration because an Exception is sought, and at the request of a member of the public. During the District's public notice period, which took place from February 25th to March 10th, 2025, a member of the community expressed various concerns with the proposed work. These concerns and their applicability to District rules are outlined below in the "Neighbor Concerns" section.

MCWD Rule Analysis

Erosion Control

MCWD's Erosion Control Rule applies to projects disturbing more than 5,000 square feet of ground surface or more than 50 cubic yards of excavation. The project proposes to disturb 79,600 square feet (1.82 acres) and excavate 5,100 cubic yards of soil; therefore, the rule applies. The Applicant proposes to incorporate Best Management Practices (BMPs) such as perimeter control along the construction limits, including redundant erosion control along the wetland and lakeshore edges, and a stabilized construction entrance to limit off-site sediment tracking. These BMPs are detailed in the Applicant's Stormwater Pollution Protection Plan, which can be found in the Construction Plans (Attachment A, sheet SW1.3).

Staff have reviewed the proposed plans and have found them to be complete and compliant with all Erosion Control Rule requirements.

Wetland Protection

The proposed work will not directly disturb the adjacent wetland. Per Section 4(a) of the Wetland Protection Rule, a vegetated buffer is required on the portion of the wetland downgradient of the proposed new impervious surface. Because the project includes construction of a new residential structure upgradient of Wetland 2, a 25-foot buffer is required under Section 5(e) of the rule.

The area adjacent to the wetland is already vegetated, and the Applicant has provided plans delineating the 25-foot buffer area, using buffer averaging, to be protected (see Attachment A, sheet C2.1). In October 2024, MCWD approved the Wetland Conservation Act (WCA) wetland boundary and type application (W24-035). The wetland boundary shown on the current plans is consistent with the approved boundary in the 2024 Notice of Decision. The plans also indicate proposed wetland buffer monument signs, which are spaced less than 200 feet apart, in accordance with Section 4(c). A vegetated swale will be constructed within the buffer area but will be restabilized and vegetated per guidance in the Minnesota Stormwater Manual. Any disturbance within the buffer, outside the swale limits, will be restabilized using native plantings.

Per Section 4(d), a Maintenance Declaration will be required for the wetland buffer, as reflected in the conditions of permit approval.

Staff have reviewed the proposal and determined that it meets the requirements of the Wetland Protection Rule.

Stormwater Management

Under the Stormwater Management Rule proposed development is considered in aggregate with other development on the parcel or adjacent parcels when the activities constitute a "Common Plan of Development" (CPD). A CPD is defined as separate or distinct land-disturbing activities that are connected by a common development plan or intent. As stated above, the Phase 1 work under Permit 23-272 and the present Phase 2 proposal together are a CPD. The aggregate new hard surface for these two phases of development is 2.27 acres. Therefore, the proposed construction is subject to the Stormwater Management Rule.

To comply with stormwater requirements, the development is required to provide 1" of volume control over the entire site's impervious surface and demonstrate no increase in peak runoff rates during design storm events.

VOLUME

The development is required to provide 8,266 cubic feet of volume control for Phases 1 and 2.

As part of the Phase 1 work under permit 23-272, three infiltration basins and one filtration basin were constructed. These basins provide 13,323 cubic feet of volume control in total. Impervious surface from Phase 1 is routed to these basins by means of swales and is compliant with volume requirements. The Applicant executed and filed a declaration for perpetual maintenance of these facilities, and it remains in place.

The Phase 2 proposal requires 1,901 cubic feet of volume control from 0.52 acres of proposed new impervious surface. The area downgradient from the building site is riparian to Piersons Lake and, accordingly, characterized by poor soils and high groundwater. For this reason, per 3(b), items 4 and 5, capture and infiltration of runoff from the new residence and drive area is infeasible and prohibited.

Section 3(c) states that if infiltration or a similar volume reduction method cannot feasibly be provided, the applicant may use any other technically accepted method to provide an equivalent amount of phosphorus control to that which would be achieved through infiltration.

The Applicant is requesting an Exception to the Stormwater Management Rule. The Applicant will construct vegetated swales alongside the new driveway and the eastern side of the house. These swales will filter runoff from a small portion of the new impervious surface. Staff recommends, as a condition of the permit, that the existing maintenance declaration be amended to incorporate maintenance of these swales. Aside from this, the Applicant proposes not to treat the new hard surface from the proposed development. Instead, the Applicant would rely on capture and treatment, by the basins constructed under Phase 1, of stormwater runoff from 5.87 acres of the parcel that is in agricultural use for row cropping. The proposed Exception and the staff analysis are detailed below.

RATE

H&H modeling demonstrates that development will not increase peak runoff in aggregate from the site in the 1-, 10-, and 100-year storm events.

There will be a slight increase in rate to the on-site wetland and Piersons Lake. The wetland is classified as a Manage 2 wetland, which means that, per Section 7(a), bounce is allowed up to 1 foot. The modeled bounce is 0.28 feet, which is within the permissible limits, and therefore demonstrates that there will be no adverse local impact on water resources. Additionally, no infrastructure is being impacted by the slight increase in discharge to the wetland as the overflow to Piersons Lake has an elevation of approximately 964 feet and the finished floor elevation of the house is 971.17 feet.

Section 6 of the rule requires two feet of vertical separation between the 100-year high water elevation of a waterbody or stormwater practice and the low opening of any structure. The finished floor elevation of the home (971.17 feet) is

well above the 100-year floodplain of Piersons Lake (963.59 feet), meeting the required vertical separation. As noted, the floor elevation will be more than two feet above the wetland overflow elevation.

Staff and the District Engineer have reviewed and confirmed that the entire Common Plan of Development meets Stormwater Management requirements, subject to Board approval of the requested Exception.

Proposed Exception

MCWD Board Exception Criteria

The MCWD Board of Managers may grant an exception from a particular water resource standard, such as a required wetland buffer, if it determines that "an alternative approach proposed by the applicant would achieve water resource outcomes of the type that the Board intends the standard, specification or method to achieve, and would do so to at least the same degree" as would conformance to the standard.

Unlike an application for a variance, an application for an exception need not demonstrate need for the Exception or review alternatives.

Applicant Exception Proposal

The Applicant has proposed an Exception to providing volume control for the new impervious surface from the proposed development. As noted above, while the proposal requires volume control in the measure of 1,901 cubic feet, it is not feasible to capture or infiltrate the runoff from the new surface. Also as noted, in this circumstance the rule allows for treatment by filtration. However, rather than seek to locate filtration practices to capture runoff from the new hard surface, the Applicant requests recognition for the water quality treatment of 5.87 acres of row cropped land provided by infiltration and filtration practices constructed under Phase 1.

Exception Analysis

The MCWD Engineer has modeled phosphorus removal outcomes for the two scenarios under consideration: strict compliance with the MCWD rule, and the proposed Exception.

Under strict compliance, the Applicant would provide 1,901 cubic feet of volume control to capture and treat runoff from 0.52 acres of new impervious surface. The impervious surface, in aggregate, carries a phosphorus load of 1.73 pounds per acre, per year. The amount of phosphorus removal provided by this amount of volume control would be 1.68 pounds per year of total phosphorus.

Three of the four basins constructed under Phase 1 to treat driveway and building hard surface also, incidentally, capture a substantial acreage of agricultural land. Infiltration basin 1 and filtration basin 4 capture runoff from 3.75 acres of row cropped land that flows to Piersons Lake. Infiltration basin 3 captures runoff from 2.12 acres of row cropped land that flows southerly to a local depression. This pervious land carries a phosphorus load of 3.04 pounds per acre, per year, substantially more than the load for the proposed new impervious surface. See Attachment B for location of basins.

As a result, using proper runoff coefficient figures, the MCWD Engineer has determined that the three basins are capturing 14.1 pounds per year of total phosphorus that otherwise would be carried to Piersons Lake, and an additional 7.8 pounds per year of total phosphorus that otherwise would be carried to the depressional area. These, individually and together, substantially exceed the 1.68 pounds of removal required by the rule. The Engineer has not quantified the load reduction provided by the referenced new swales, but this would constitute further removal under the proposed Exception. As noted, all basins and swales would be subject to maintenance in perpetuity.

Because the two phases constitute a Common Plan of Development, MCWD staff and the MCWD Engineer are comfortable to recognize the treatment of cropped land stormwater runoff, incidentally provided under Phase 1, in determining whether stormwater requirements for the two phases combined are met. Therefore, staff and the District Engineer recommend that the Exception request be approved.

Neighbor Concerns

During the District's public notice period for this permit, a member of the public submitted concerns regarding the District's role as it relates to tree protection, potential impacts to endangered species and Indigenous burial mounds, lakeshore setbacks, wetland buffers, and stormwater management. Staff have provided the following clarifications and coordinated with relevant agencies where appropriate.

Tree Protection

The commenter recognized that MCWD does not have a tree ordinance that dictates tree protection or preservation, but requested that MCWD pursue a conservation easement on this property to protect the trees.

MCWD does not regulate tree removal. Most MCWD communities have tree ordinances tailored to local community needs.

Endangered Species and Indigenous Burial Mounds

The commenter questioned whether MCWD evaluates a project for potential impacts to endangered species or Indigenous burial mounds.

The circumstances under which MCWD might specifically require environmental review is when the watershed is the Local Government Unit (LGU) for the Wetland Conservation Act (WCA) and is reviewing a wetland impact and replacement plan application. Review may also be germane if MCWD is performing environmental review under the Minnesota Environmental Policy Act. The proposed Project does not propose any impacts to wetlands and is not subject to Minnesota Environmental Policy Act review.

Regarding Indigenous burial mounds, Carver County consulted with the Office of the State Archaeologist (OSA) during the review of phase 1 of this development. OSA confirmed that no known burial mounds exist on this site.

Lakeshore Setbacks

The commenter asked whether the project meets lakeshore setback requirements.

MCWD does not regulate lakeshore setbacks. This falls under Carver County's jurisdiction, and County staff have indicated that they will review setback compliance as part of their permitting process.

Wetland Buffers

Concerns were expressed about whether construction would disturb the wetland buffer.

The Project does not include any planned disturbance within the wetland buffer. If any unplanned disturbance occurs, the Applicant must restore the area using native seed.

MCWD will also conduct inspections to ensure the wetland and wetland buffer are protected and established per approved plans.

Stormwater Management

Concerns were raised about past and current site conditions as they related to stormwater, specifically whether a new drain tile was installed as part of the development.

MCWD, in coordination with Laketown Township, Carver County, Carver County Soil and Water Conservation District, and Carver County Watershed Management Organization, reviewed historical aerial imagery and confirmed that drain tile predated the recent development.

Per request, MCWD coordinated a site visit in 2024 with the previously stated agencies and landowners. The site visit confirmed the findings that the development did not install new drain tile. Additionally, the drain tile concern is unrelated to the proposed work (25-056) and is not subject to MCWD regulation.

The commenter offered that all development activity (Phases 1 and 2) should be reviewed together as a Common Plan of Development. MCWD staff have determined that the two phases do constitute a Common Plan of Development, meaning cumulative impervious surface impacts have been assessed under MCWD's Stormwater Management Rule.

Conclusion

MCWD staff have carefully reviewed and addressed each question and concern raised during the public notice period, regardless of whether they fall within the District's regulatory authority. While some issues, such as tree protection, lakeshore setbacks, and archaeological review, are outside MCWD's jurisdiction, staff have worked to provide clarity, coordinate with relevant agencies, and ensure that all applicable regulations are upheld.

For concerns within MCWD's permitting authority, including stormwater management and wetland buffer protection, staff have conducted a thorough technical review to ensure compliance with District rules, as discussed above. The proposed Project is subject to MCWD's Erosion Control, Wetland Protection, and Stormwater Management Rules. Staff and the District Engineer have reviewed and found the application to be compliant with the Erosion Control and Wetland Protection Rules.

The applicant is proposing to meet the Stormwater Management Rule via an Exception. Staff and the District Engineer have reviewed and analyzed the proposal, and recommend that the Exception request be approved.

Attachments

A: Construction Plans

B: Basins Overview

C: Neighbor Comments

9790 LAKEWOOD HOUSE AND DRIVEWAY PLAN

LAKETOWN TOWNSHIP, MINNESOTA ISSUED FOR: PERMIT / CONSTRUCTION



DEVELOPER / PROPERTY OWNER:

6436 PENN AVENUE S
RICHFIELD, MN 55423
CONTACT: ALEX YOUNG
651-287-8891
AYOUNG@MSPCOMMERCIAL.COM
ENGINEER / LANDSCAPE ARCHITECT:

CIVIL SITE GROUP 5000 GLENWOOD AVE GOLDEN VALLEY, MN 55422 CONTACT: KEVIN TEPPEN 612-615-0060

TERRAIN HOLDINGS

SURVEYOR:

CIVIL SITE GROUP 5000 GLENWOOD AVE GOLDEN VALLEY, MN 55422 CONTACT: RORY SYNSTELIEN 612-615-0060

ARCHITECT:

TEA2 ARCHITECTS
2724 WEST 43RD STREET
MINNEAPOLIS, MN 55410
CONTACT: MATTHEW ERICKSON
612-895-3498

ALL EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTACT "GOPHER STATE ONE CALL" (651-454-0002 OR 800-252-1166) FOR UTILITY LOCATIONS, 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY UTILITIES THAT ARE DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.



SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF DATE 4/4/2025 LICENSE NO. 48776 ISSUE/SUBMITTAL SUMMARY DATE DESCRIPTION 2/10/2025 WATERSHED SUBMITTAL 3/20/2025 WATERSHED RESUBMITTAL 4/4/2025 WATERSHED RESUBMITTAL REVIEWED BY: DK DRAWN BY:RB PROJECT NUMBER: 22425 **REVISION SUMMARY** DATE DESCRIPTION

TITLE SHEET

SHEET INDEX

SHEET NUMBER | SHEET TITLE

C0.0 TITLE SHEET

C2.0 OVERALL SITE PLAN

C2.2 SITE PLAN - DRIVEWAY

C3.0 SITE GRADING NOTES

C3.1 GRADING PLAN - HOUSE

C3.2 GRADING PLAN - DRIVEWAY

C2.1 SITE PLAN - HOUSE

C4.0 UTILITY PLAN

C5.0 CIVIL DETAILS

SW1.2 SWPPP - DETAILS

SW1.3 | SWPPP - NARRATIVE

SW1.4 SWPPP - ATTACHMENTS
SW1.5 SWPPP - ATTACHMENTS

V1.0 SITE SURVEY - SEE SEPARATE FILE

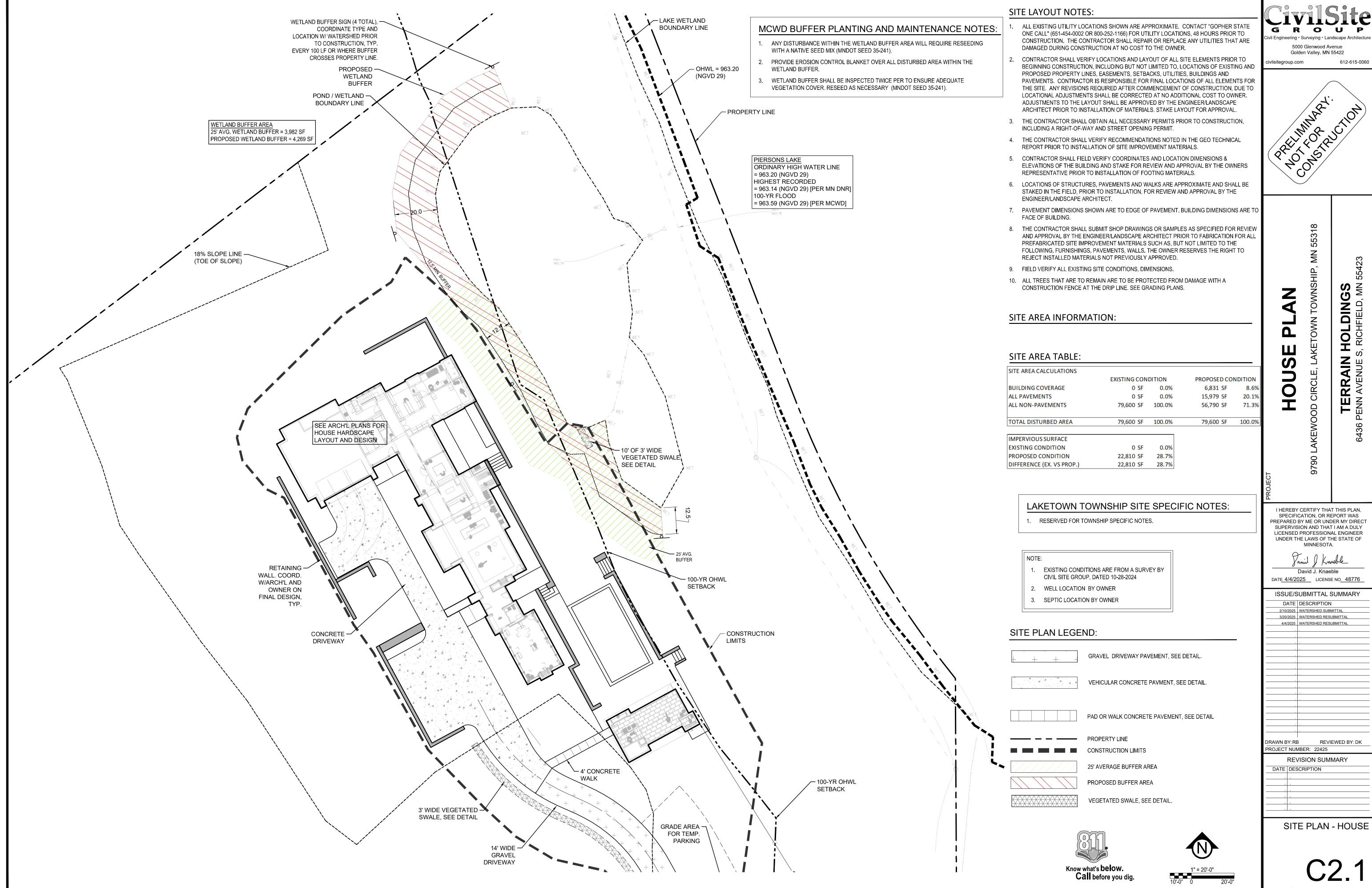
V1.1 SITE SURVEY - SEE SEPARATE FILE

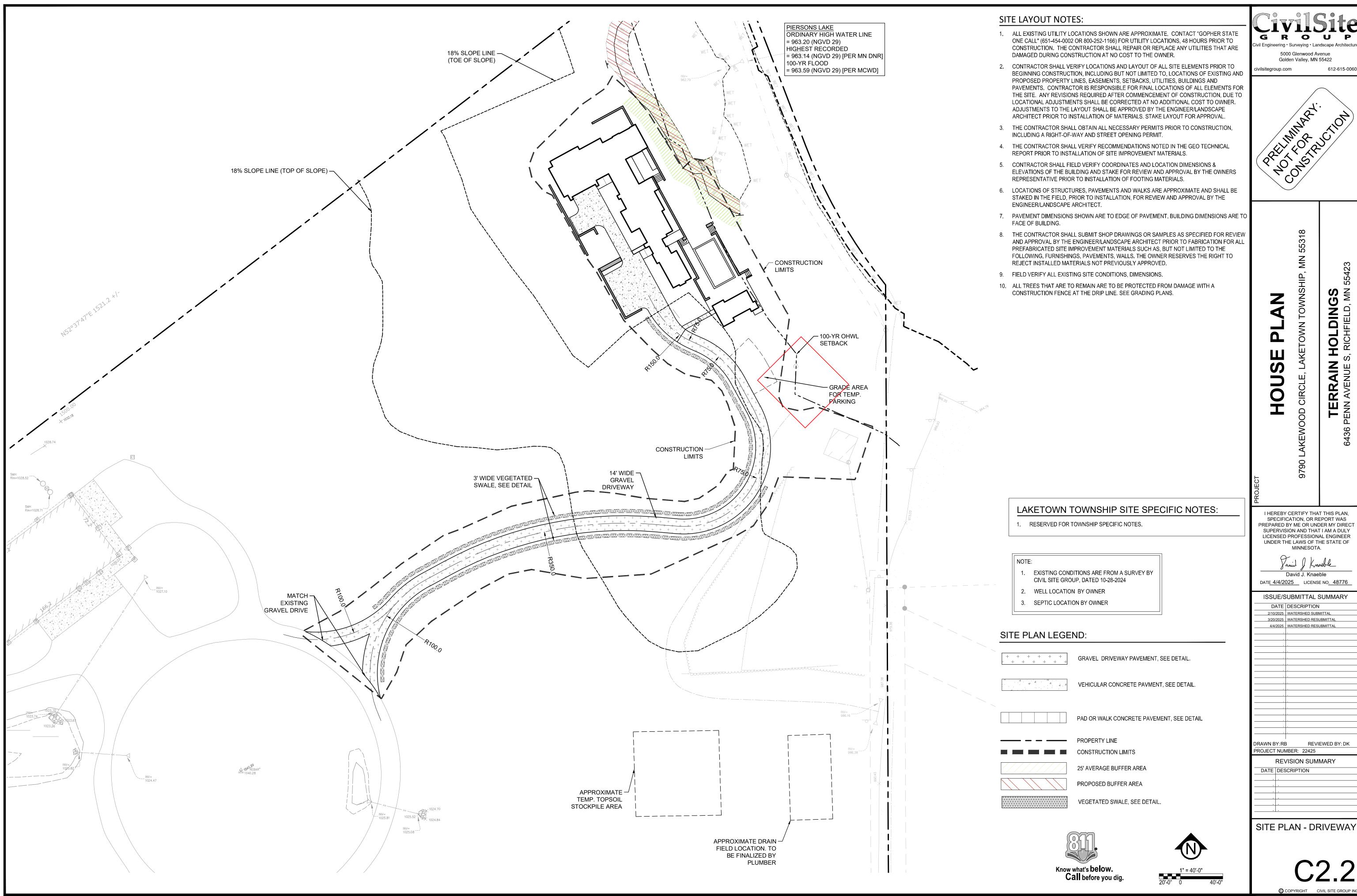
V1.2 SITE SURVEY - SEE SEPARATE FILE

SW1.0 | SWPPP - EXISTING CONDITIONS PLAN

SW1.1 SWPPP - PROPOSED CONDITIONS PLAN

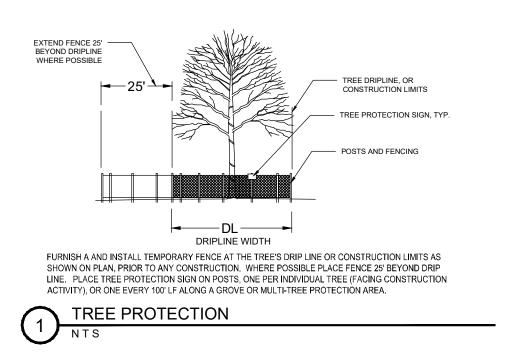






REMOVAL NOTES:

- 1. ALL EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTACT "GOPHER STATE ONE CALL" (651-454-0002 OR 800-252-1166) FOR UTILITY LOCATIONS, 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY UTILITIES THAT ARE DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.
- 2. SEE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PLAN FOR CONSTRUCTION STORM WATER MANAGEMENT PLAN.
- 3. REMOVAL OF MATERIALS NOTED ON THE DRAWINGS SHALL BE IN ACCORDANCE WITH MNDOT, STATE AND LOCAL REGULATIONS.
- 4. REMOVED MATERIALS SHALL BE DISPOSED OF TO A LEGAL OFF-SITE LOCATION AND IN ACCORDANCE WITH STATE AND LOCAL
- 5. EXISTING ON-SITE FEATURES NOT NOTED FOR REMOVAL SHALL BE PROTECTED THROUGHOUT THE DURATION OF THE CONTRACT
- PROPERTY LINES SHALL BE CONSIDERED GENERAL CONSTRUCTION LIMITS UNLESS OTHERWISE NOTED ON THE DRAWINGS. WORK WITHIN THE GENERAL CONSTRUCTION LIMITS SHALL INCLUDE STAGING, DEMOLITION AND CLEAN-UP OPERATIONS AS WELL AS CONSTRUCTION SHOWN ON THE DRAWINGS.
- 7. MINOR WORK OUTSIDE OF THE GENERAL CONSTRUCTION LIMITS SHALL BE ALLOWED AS SHOWN ON THE PLAN AND PER TOWNSHIP REQUIREMENTS. FOR ANY WORK ON ADJACENT PRIVATE PROPERTY, THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM THE ADJACENT PROPERTY OWNER PRIOR TO ANY WORK.
- 8. DAMAGE BEYOND THE PROPERTY LIMITS CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED IN A MANNER APPROVED. BY THE ENGINEER/LANDSCAPE ARCHITECT OR IN ACCORDANCE WITH THE TOWNSHIP.
- 9. ALL EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTACT "GOPHER STATE ONE CALL" (651-454-0002 OR 800-252-1166) FOR UTILITY LOCATIONS, 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY UTILITIES THAT ARE DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.





- 1. EXISTING CONDITIONS ARE FROM A SURVEY BY CIVIL SITE GROUP, DATED 10-28-2024
- 2. WELL LOCATION BY OWNER
- 3. SEPTIC LOCATION BY OWNER

GENERAL GRADING NOTES:

- 1. CONTRACTOR SHALL VERIFY ALL BUILDING ELEVATIONS, (FFE, LFE, GFE), PRIOR TO CONSTRUCTION BY CROSS CHECKING WITH ARCHITECTURAL, STRUCTURAL AND CIVIL ELEVATIONS FOR EQUIVALENT "100" ELEVATIONS. THIS MUST BE DONE PRIOR TO EXCAVATION AND INSTALLATION OF ANY FOOTING MATERIALS. VERIFICATION OF THIS COORDINATION SHALL BE CONFIRMED IN WRITING BY CIVIL, SURVEYOR, ARCHITECTURAL, STRUCTURAL AND CONTRACTOR PRIOR TO CONSTRUCTION.
- 2. ALL EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTACT "GOPHER STATE ONE CALL" (651-454-0002 OR 800-252-1166) FOR UTILITY LOCATIONS, 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY UTILITIES THAT ARE DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.
- 3. SEE SITE PLAN FOR HORIZONTAL LAYOUT & GENERAL GRADING NOTES.
- 4. THE CONTRACTOR SHALL COMPLETE THE SITE GRADING CONSTRUCTION (INCLUDING BUT NOT LIMITED TO SITE PREPARATION, SOIL CORRECTION, EXCAVATION, EMBANKMENT, ETC.) IN ACCORDANCE WITH THE REQUIREMENTS OF THE OWNER'S SOILS ENGINEER. ALL SOIL TESTING SHALL BE COMPLETED BY THE OWNER'S SOILS ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED SOIL TESTS AND INSPECTIONS WITH THE SOILS ENGINEER.
- 5. ANY ELEMENTS OF AN EARTH RETENTION SYSTEM AND RELATED EXCAVATIONS THAT FALL WITHIN THE PUBLIC RIGHT OF WAY WILL REQUIRE A "RIGHT OF WAY EXCAVATION PERMIT". CONTRACTOR IS RESPONSIBLE FOR AQUIRING THIS PERMIT PRIOR TO CONSTRUCTION IF APPLICABLE
- 6. ALL EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTACT "GOPHER STATE ONE CALL" (651-454-0002 OR 800-252-1166) FOR UTILITY LOCATIONS, 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY UTILITIES THAT ARE DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.
- 7. GRADING AND EXCAVATION ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS & PERMIT REQUIREMENTS OF THE CITY.
- 8. PROPOSED SPOT GRADES ARE FLOW-LINE FINISHED GRADE ELEVATIONS, UNLESS OTHERWISE NOTED.
- 9. GRADES OF WALKS SHALL BE INSTALLED WITH 4.8% MAX. LONGITUDINAL SLOPE AND 1% MIN. AND 1.8% MAX. CROSS SLOPE, UNLESS OTHERWISE NOTED.
- 10. PROPOSED SLOPES SHALL NOT EXCEED 3:1 UNLESS INDICATED OTHERWISE ON THE DRAWINGS. MAXIMUM SLOPES IN MAINTAINED AREAS IS 4:1
- 11. PROPOSED RETAINING WALLS, FREESTANDING WALLS, OR COMBINATION OF WALL TYPES GREATER THAN 4' IN HEIGHT SHALL BE DESIGNED AND ENGINEERED BY A REGISTERED RETAINING WALL ENGINEER. DESIGN DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF GRADE STAKES THROUGHOUT THE DURATION OF CONSTRUCTION TO ESTABLISH PROPER GRADES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR A FINAL FIELD CHECK OF FINISHED GRADES ACCEPTABLE TO THE ENGINEER/LANDSCAPE ARCHITECT PRIOR TO TOPSOIL AND SODDING ACTIVITIES.
- 13. IF EXCESS OR SHORTAGE OF SOIL MATERIAL EXISTS, THE CONTRACTOR SHALL TRANSPORT ALL EXCESS SOIL MATERIAL OFF THE SITE TO AN AREA SELECTED BY THE CONTRACTOR, OR IMPORT SUITABLE MATERIAL TO THE SITE.
- 14. EXCAVATE TOPSOIL FROM AREAS TO BE FURTHER EXCAVATED OR REGRADED AND STOCKPILE IN AREAS DESIGNATED ON THE SITE. THE CONTRACTOR SHALL SALVAGE ENOUGH TOPSOIL FOR RESPREADING ON THE SITE AS SPECIFIED. EXCESS TOPSOIL SHALL BE PLACED IN EMBANKMENT AREAS, OUTSIDE OF BUILDING PADS, ROADWAYS AND PARKING AREAS. THE CONTRACTOR SHALL SUBCUT CUT AREAS, WHERE TURF IS TO BE ESTABLISHED, TO A DEPTH OF 6 INCHES. RESPREAD TOPSOIL IN AREAS WHERE TURF IS TO BE ESTABLISHED TO A MINIMUM DEPTH OF 6 INCHES.
- 15. FINISHED GRADING SHALL BE COMPLETED. THE CONTRACTOR SHALL UNIFORMLY GRADE AREAS WITHIN LIMITS OF GRADING, INCLUDING ADJACENT TRANSITION AREAS. PROVIDE A SMOOTH FINISHED SURFACE WITHIN SPECIFIED TOLERANCES, WITH UNIFORM LEVELS OR SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE SHOWN, OR BETWEEN SUCH POINTS AND EXISTING GRADES. AREAS THAT HAVE BEEN FINISH GRADED SHALL BE PROTECTED FROM SUBSEQUENT CONSTRUCTION OPERATIONS, TRAFFIC AND EROSION. REPAIR ALL AREAS THAT HAVE BECOME RUTTED BY TRAFFIC OR ERODED BY WATER OR HAS SETTLED BELOW THE CORRECT GRADE. ALL AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO EQUAL OR BETTER THAN ORIGINAL CONDITION OR TO THE REQUIREMENTS OF THE NEW WORK.
- 16. PRIOR TO PLACEMENT OF THE AGGREGATE BASE, A TEST ROLL WILL BE REQUIRED ON THE STREET AND/OR PARKING AREA SUBGRADE. THE CONTRACTOR SHALL PROVIDE A LOADED TANDEM AXLE TRUCK WITH A GROSS WEIGHT OF 25 TONS. THE TEST ROLLING SHALL BE AT THE DIRECTION OF THE SOILS ENGINEER AND SHALL BE COMPLETED IN AREAS AS DIRECTED BY THE SOILS ENGINEER. THE SOILS ENGINEER SHALL DETERMINE WHICH SECTIONS OF THE STREET OR PARKING AREA ARE UNSTABLE. CORRECTION OF THE SUBGRADE SOILS SHALL BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SOILS ENGINEER. NO TEST ROLL SHALL OCCUR WITHIN 10' OF ANY UNDERGROUND STORM RETENTION/DETENTION SYSTEMS.

17. TOLERANCE

- 17.1. THE BUILDING SUBGRADE FINISHED SURFACE ELEVATION SHALL NOT VARY BY MORE THAN 0.30 FOOT ABOVE, OR 0.30 FOOT BELOW, THE PRESCRIBED ELEVATION AT ANY POINT WHERE MEASUREMENT IS MADE.
- 17.2. THE STREET OR PARKING AREA SUBGRADE FINISHED SURFACE ELEVATION SHALL NOT VARY BY MORE THAN 0.05 FOOT ABOVE, OR 0.10 FOOT BELOW, THE PRESCRIBED ELEVATION OF ANY POINT WHERE MEASUREMENT IS MADE.
- 17.3. AREAS WHICH ARE TO RECEIVE TOPSOIL SHALL BE GRADED TO WITHIN 0.30 FOOT ABOVE OR BELOW THE REQUIRED ELEVATION, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
- 17.4. TOPSOIL SHALL BE GRADED TO PLUS OR MINUS 1/2 INCH OF THE SPECIFIED THICKNESS.

18. MAINTENANCE

- 18.1. THE CONTRACTOR SHALL PROTECT NEWLY GRADED AREAS FROM TRAFFIC AND EROSION, AND KEEP AREA FREE OF TRASH AND DEBRIS.
- 18.2. CONTRACTOR SHALL REPAIR AND REESTABLISH GRADES IN SETTLED, ERODED AND RUTTED AREAS TO SPECIFIED TOLERANCES. DURING THE CONSTRUCTION, IF REQUIRED, AND DURING THE WARRANTY PERIOD, ERODED AREAS WHERE TURF IS TO BE ESTABLISHED SHALL BE RESEEDED
- 18.3. WHERE COMPLETED COMPACTED AREAS ARE DISTURBED BY SUBSEQUENT CONSTRUCTION OPERATIONS OR ADVERSE WEATHER, CONTRACTOR SHALL SCARIFY, SURFACE, RESHAPE, AND COMPACT TO REQUIRED DENSITY PRIOR TO FURTHER CONSTRUCTION.

GRADING PLAN LEGEND:

----- 1125 ----- EX. 1' CONTOUR ELEVATION INTERVAL ------1137------1.0' CONTOUR ELEVATION INTERVAL SPOT GRADE ELEVATION 41.26

(GUTTER/FLOW LINE UNLESS OTHERWISE NOTED) SPOT GRADE ELEVATION GUTTER SPOT GRADE ELEVATION TOP OF CURB 891.00 BS/TS SPOT GRADE ELEVATION BOTTOM OF

STAIRS/TOP OF STAIRS **EROSION CONTROL NOTES:**

LAKETOWN TOWNSHIP GRADING NOTES:

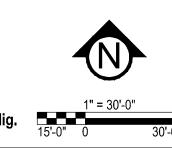
SEE SWPPP ON SHEETS SW1.0 - SW1.5

RESERVED FOR TOWNSHIP SPECIFIC GRADING NOTES.



891.00 ME

EOF=1135.52



SPOT GRADE

EXISTING

ELEVATION MATCH

5000 Glenwood Avenue Golden Valley, MN 55422 612-615-006 ivilsitegroup.com

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SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

Panil & Knaeble David J. Knaeble

DATE 4/4/2025 LICENSE NO. 48776

ISSUE/SUBMITTAL SUMMARY DATE DESCRIPTION 2/10/2025 WATERSHED SUBMITTAL

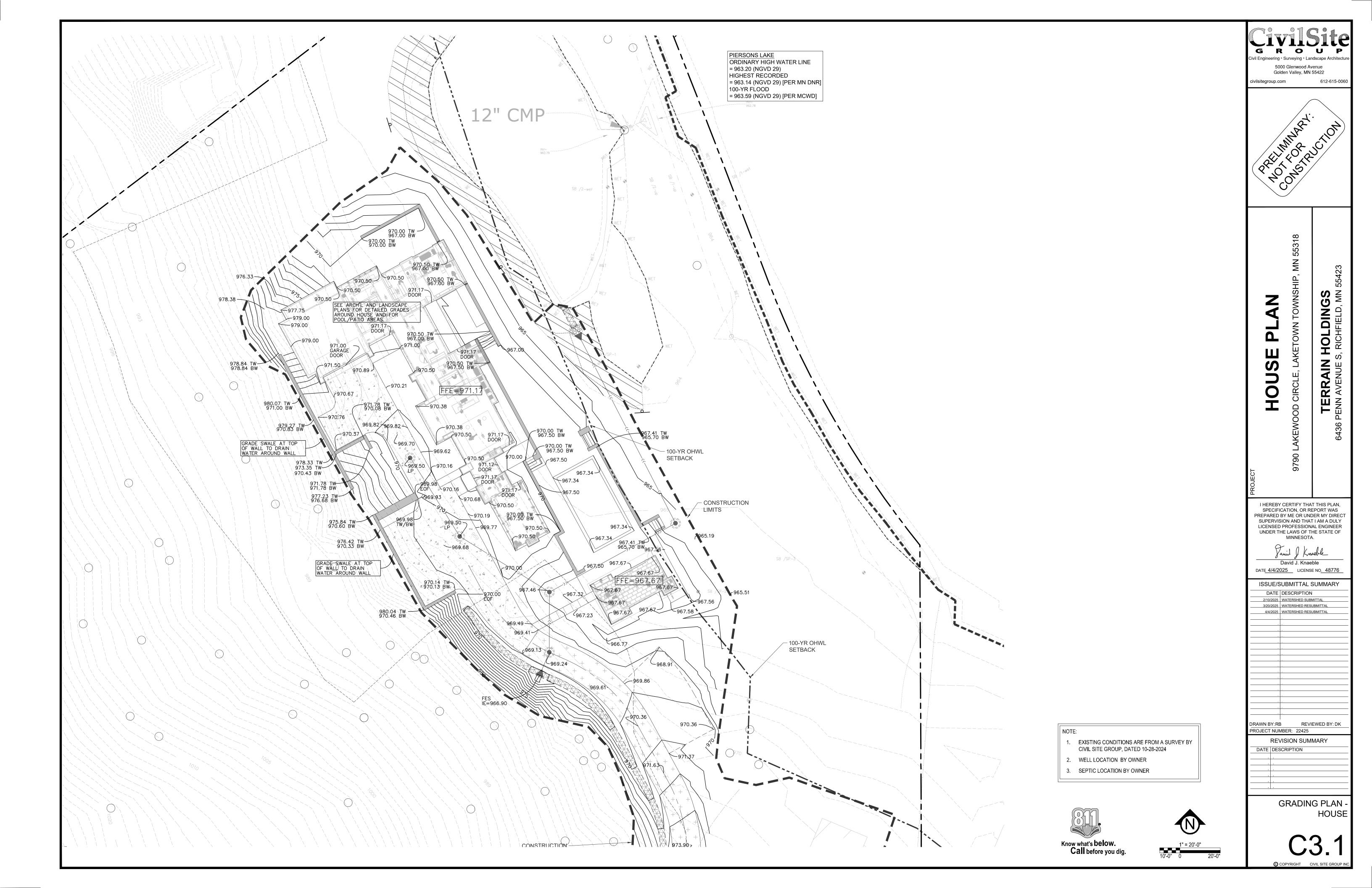
3/20/2025 WATERSHED RESUBMITTAL 4/4/2025 WATERSHED RESUBMITTAL

DRAWN BY:RB REVIEWED BY: DK PROJECT NUMBER: 22425

GRADE BREAK -**REVISION SUMMARY** HIGH POINTS DATE DESCRIPTION

EMERGENCY OVERFLOW

SITE GRADING NOTES





Civil Engineering • Surveying • Landscape Architecture

5000 Glenwood Avenue Golden Valley, MN 55422 civilsitegroup.com 612-6

SKINING STOLLING

USE PLAN

HOLDINGS S, RICHFIELD, MIN

I HEREBY CERTIFY THAT THIS PLAN,
SPECIFICATION, OR REPORT WAS
PREPARED BY ME OR UNDER MY DIRECT
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UNDER THE LAWS OF THE STATE OF
MINNESOTA.

Janul J. Knaeble_ David J. Knaeble

David J. Knaeble

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3/20/2025 WATERSHED RESUBMITTAL

4/4/2025 WATERSHED RESUBMITTAL

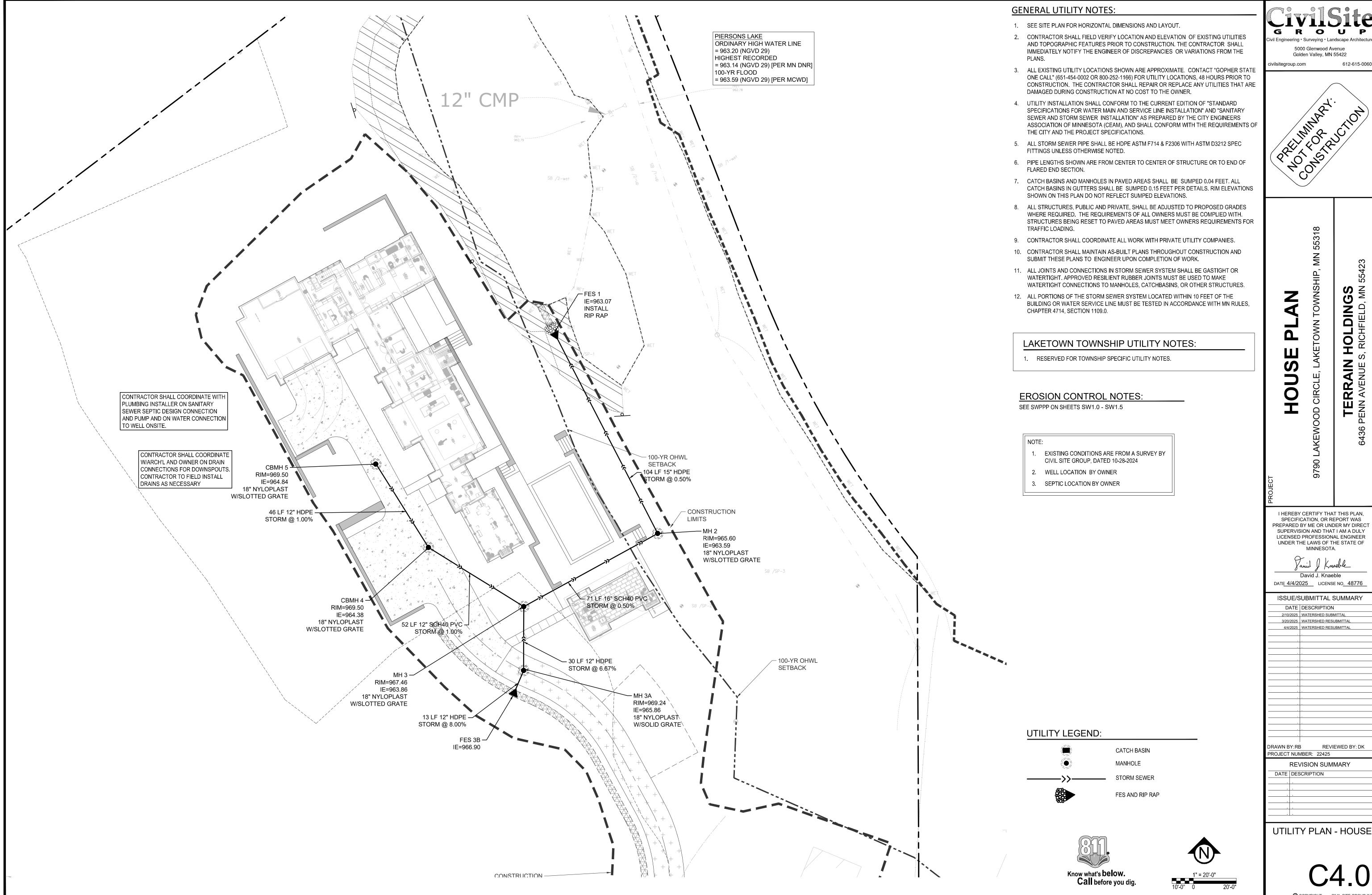
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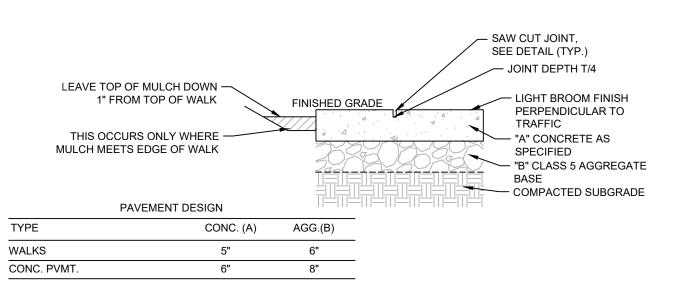
DRAWN BY:RB REVIEWED BY: DK
PROJECT NUMBER: 22425

REVISION SUMMARY
DATE DESCRIPTION

GRADING PLAN -DRIVEWAY

C3.2



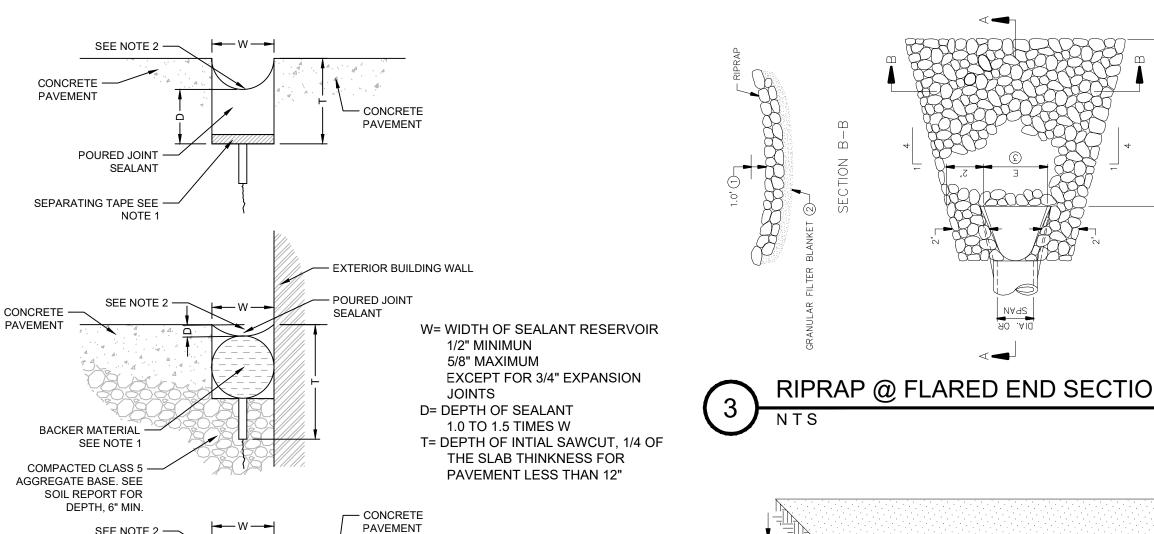


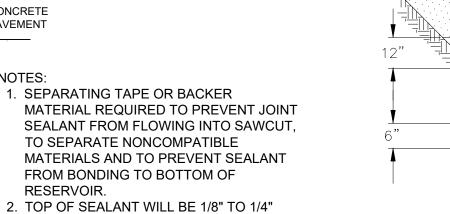
CURING:

- 1. APPLY CURING COMPOUNDS IMMEDIATELY UPON FINAL FINISHING OF CONC. SURFACE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION AND THE SPECIFICATIONS BELOW.
- 2. ALL CONC. SURFACES SHALL HAVE CURING COMPOUNDS ALLIED PER ASTM C-1315. AT 200 S.F. PER GAL. 3. ALL CURING COMPOUNDS SHALL BE TYPE 1 (CLEAR) AND CONTAIN ACRYLIC BASED CLASS B RESTRICTED RESIN SOLIDS.
- 1. INSTALLATION SHALL BE CERTIFIED AND IN ACCORDANCE TO AN ON-SITE A.C.I. TECHNICIAN AS SPECIFIED.
- 2. SEE GEO-TECHNICAL RECOMMENDATIONS FOR GROSS WEIGHT REQUIREMENTS.
- IF NO DESIGN IS DEFINED IN CHART, SEE GEOTECH REPORT FOR FINAL PAVEMENT SECTION. 4. IF DESIGN IS DEFINED IN CHART, IT SHOULD BE CONSIDERED FOR BIDDING PURPOSES ONLY. REFER TO GEOTECH FOR

CONCRETE PVMT./WALK/PAD

(PRIVATE PROPERTY)





RESERVOIR.

. SEPARATING TAPE OR BACKER

TO SEPARATE NONCOMPATIBLE

FROM BONDING TO BOTTOM OF

BELOW TOP OF PAVEMENT.

CONCRETE

PAVEMENT

SEE NOTE 2 -

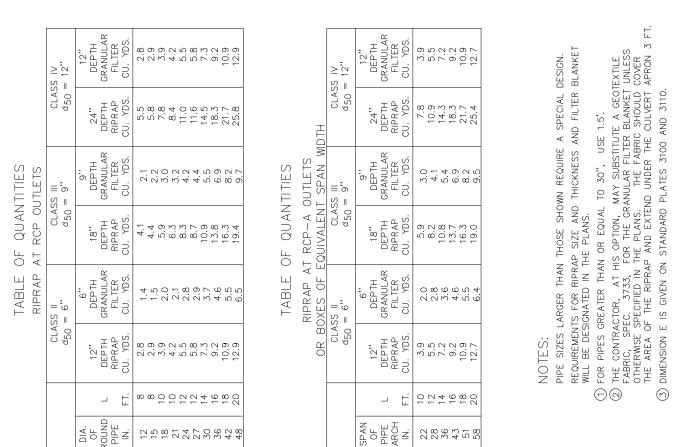
POURED JOINT -

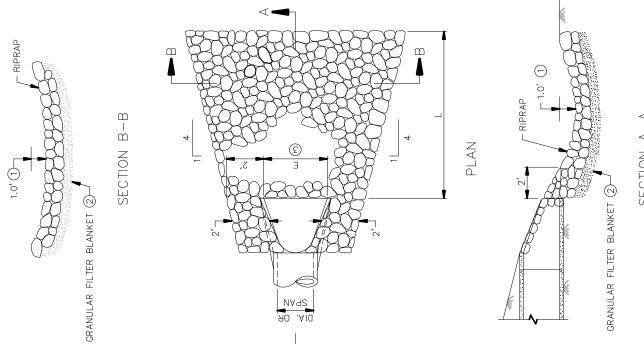
BACKER MATERIAL SEE -

SEALANT

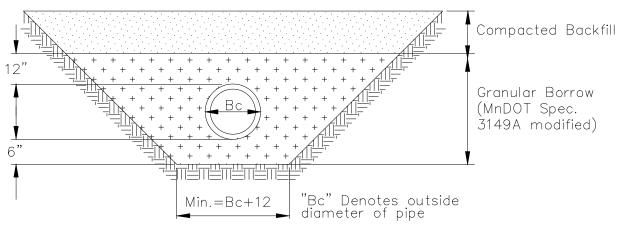
NOTE 1

EXPANSION JOINT SEALANT DETAILS

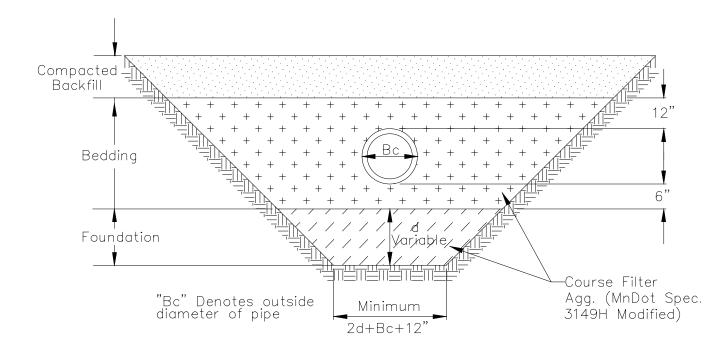




RIPRAP @ FLARED END SECTION

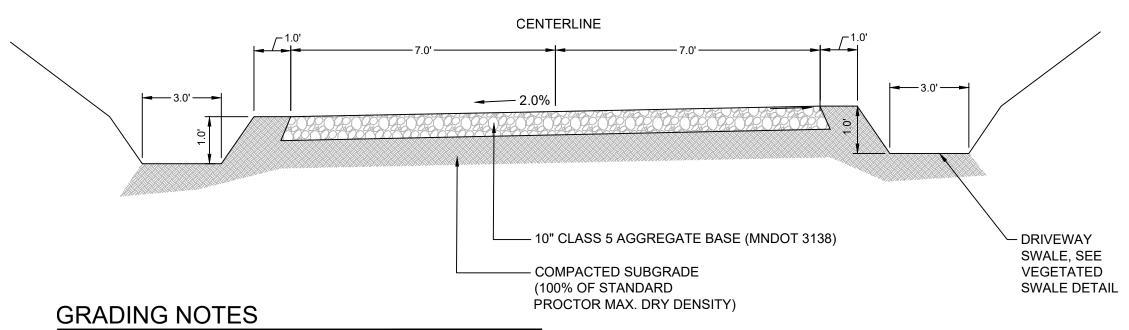


PIPE FOUNDATION & BEDDING IN GOOD SOILS



PIPE FOUNDATION & BEDDING IN POOR SOILS





1. IN AREAS OF FILL, BACKFILL SHALL BE COMPACTED PER SOIL

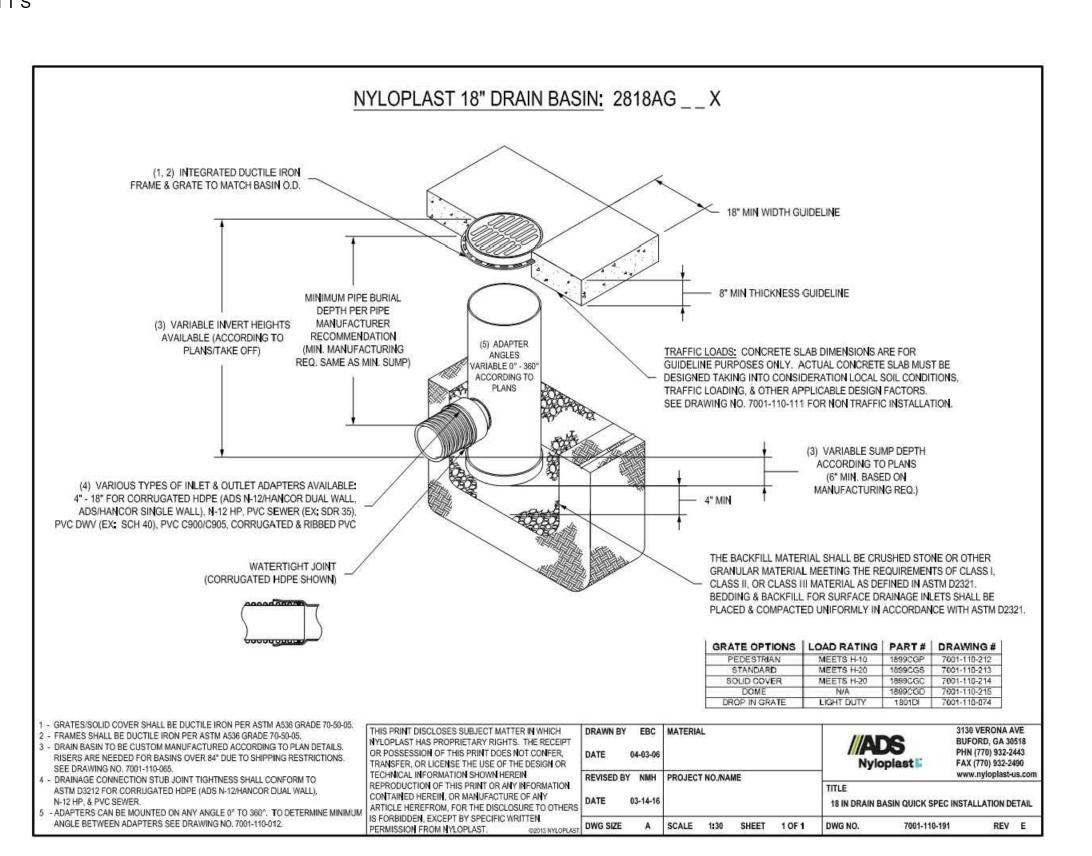
REPORT RECOMMENDATIONS AND STRUCTURALLY BUILT.

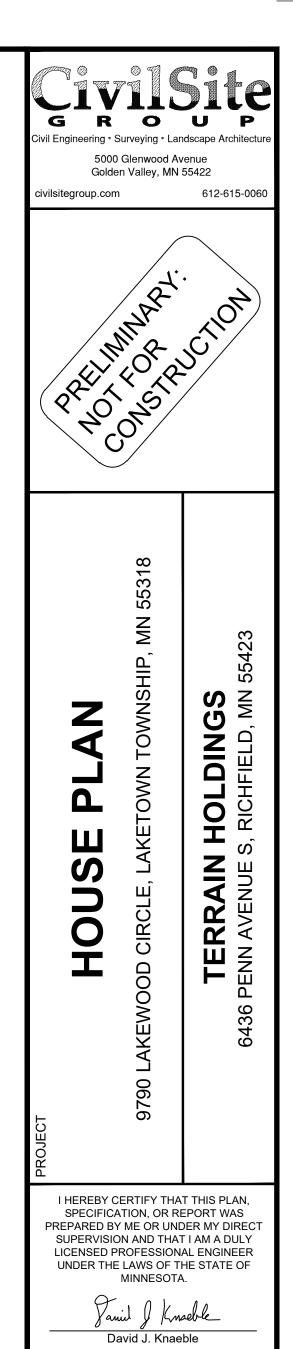
2. ALL ORGANIC OR UNSUITABLE MATERIAL SHALL BE REMOVED FROM BENEATH THE DRIVEWAY.

GRAVEL DRIVEWAY SECTION

- ADJACENT PVMT. SIDE SLOPE TREATMENTS, SEE GRADING PLAN GRASS PRETREATMENT STRIP OR PRETREATMENT STRUCTURE, SEE - SEE GRADING PLAN FOR DEPTH UTILITY AND LANDSCAPE PLANS – PLANT MATERIAL, NATIVE SEED MIX (MNDOT 35-241) UNDISTURBED, UNCOMPACTED IN-SITU SOIL NETLESS EROSION BLANKET IN BOTTOM OF BASIN. MIN. PLANTING MEDIUM DEPTH 6" OF TOPSOIL

VEGETATED SWALE





DATE 4/4/2025 LICENSE NO. 48776

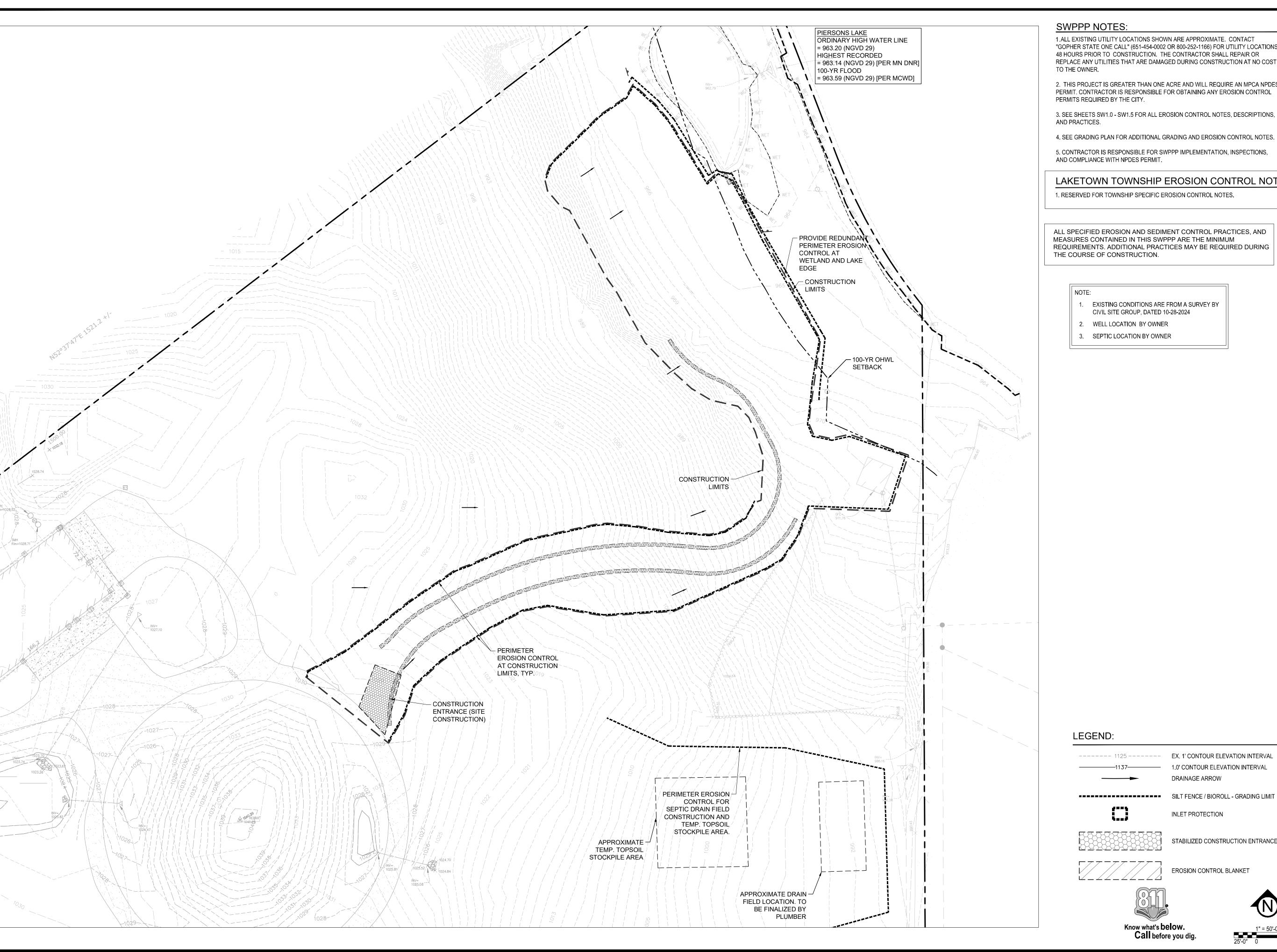
ISSUE/SUBMITTAL SUMMARY DATE DESCRIPTION 2/10/2025 WATERSHED SUBMITTAL 3/20/2025 WATERSHED RESUBMITTAL

4/4/2025 WATERSHED RESUBMITTAL DRAWN BY:RB REVIEWED BY: DK

PROJECT NUMBER: 22425

REVISION SUMMARY DATE DESCRIPTION

CIVIL DETAILS



1.ALL EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTACT "GOPHER STATE ONE CALL" (651-454-0002 OR 800-252-1166) FOR UTILITY LOCATIONS, 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY UTILITIES THAT ARE DAMAGED DURING CONSTRUCTION AT NO COST

2. THIS PROJECT IS GREATER THAN ONE ACRE AND WILL REQUIRE AN MPCA NPDES PERMIT. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY EROSION CONTROL

3. SEE SHEETS SW1.0 - SW1.5 FOR ALL EROSION CONTROL NOTES, DESCRIPTIONS,

4. SEE GRADING PLAN FOR ADDITIONAL GRADING AND EROSION CONTROL NOTES.

5. CONTRACTOR IS RESPONSIBLE FOR SWPPP IMPLEMENTATION, INSPECTIONS, AND COMPLIANCE WITH NPDES PERMIT.

LAKETOWN TOWNSHIP EROSION CONTROL NOTES:

1. RESERVED FOR TOWNSHIP SPECIFIC EROSION CONTROL NOTES.

ALL SPECIFIED EROSION AND SEDIMENT CONTROL PRACTICES, AND MEASURES CONTAINED IN THIS SWPPP ARE THE MINIMUM REQUIREMENTS. ADDITIONAL PRACTICES MAY BE REQUIRED DURING THE COURSE OF CONSTRUCTION.

- 1. EXISTING CONDITIONS ARE FROM A SURVEY BY
- 2. WELL LOCATION BY OWNER
- 3. SEPTIC LOCATION BY OWNER

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HOLDINGS S, RICHFIELD, MN

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REVIEWED BY: DK DRAWN BY:RB PROJECT NUMBER: 22425

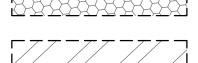
REVISION SUMMARY DATE DESCRIPTION

STABILIZED CONSTRUCTION ENTRANCE

EX. 1' CONTOUR ELEVATION INTERVAL 1.0' CONTOUR ELEVATION INTERVAL

DRAINAGE ARROW

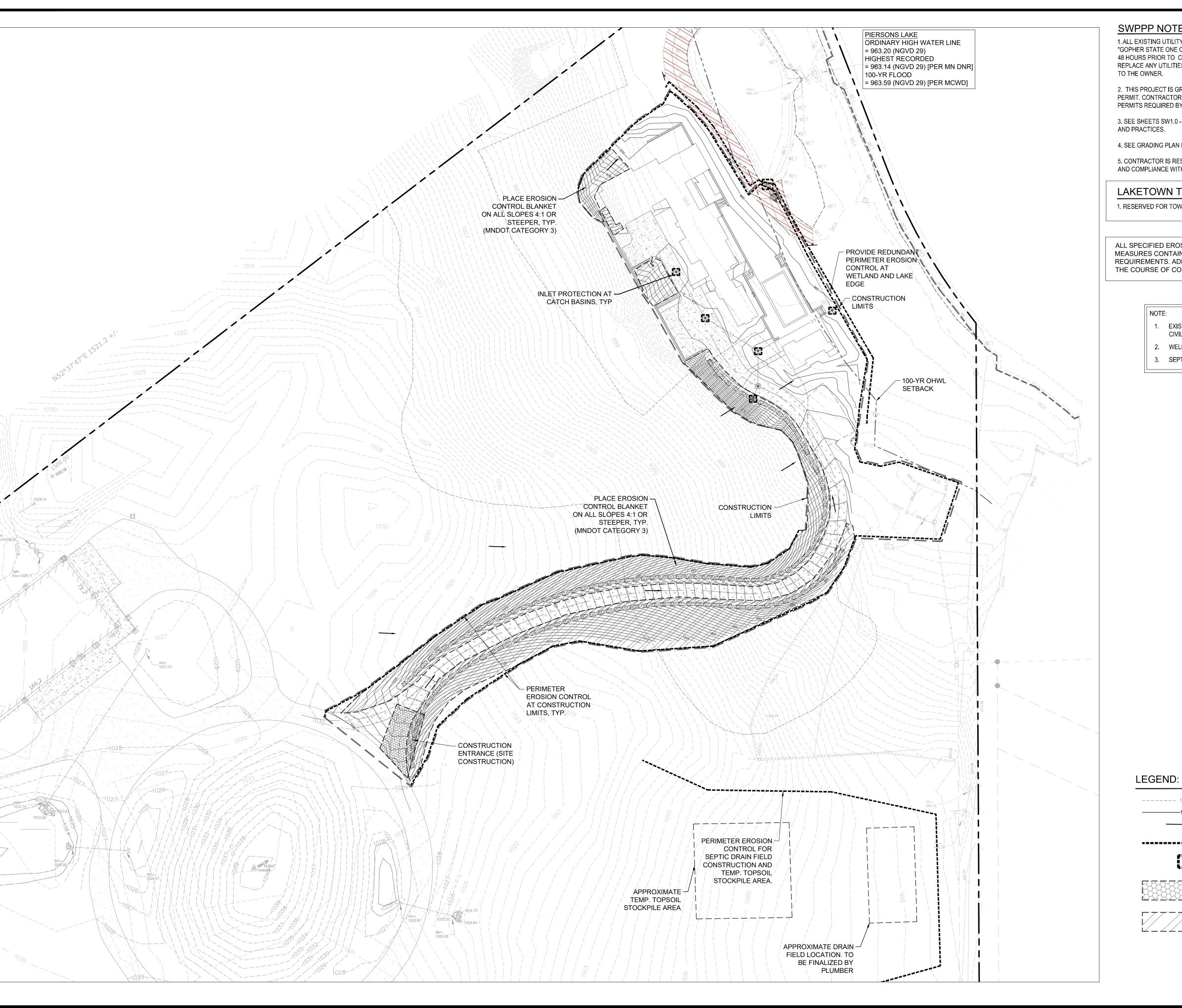
INLET PROTECTION



EROSION CONTROL BLANKET



SWPPP - EXISTING CONDITIONS



SWPPP NOTES:

1.ALL EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTACT "GOPHER STATE ONE CALL" (651-454-0002 OR 800-252-1166) FOR UTILITY LOCATIONS, 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY UTILITIES THAT ARE DAMAGED DURING CONSTRUCTION AT NO COST

2. THIS PROJECT IS GREATER THAN ONE ACRE AND WILL REQUIRE AN MPCA NPDES PERMIT. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY EROSION CONTROL PERMITS REQUIRED BY THE CITY.

3. SEE SHEETS SW1.0 - SW1.5 FOR ALL EROSION CONTROL NOTES, DESCRIPTIONS,

4. SEE GRADING PLAN FOR ADDITIONAL GRADING AND EROSION CONTROL NOTES.

5. CONTRACTOR IS RESPONSIBLE FOR SWPPP IMPLEMENTATION, INSPECTIONS, AND COMPLIANCE WITH NPDES PERMIT.

LAKETOWN TOWNSHIP EROSION CONTROL NOTES:

1. RESERVED FOR TOWNSHIP SPECIFIC EROSION CONTROL NOTES.

ALL SPECIFIED EROSION AND SEDIMENT CONTROL PRACTICES, AND MEASURES CONTAINED IN THIS SWPPP ARE THE MINIMUM REQUIREMENTS. ADDITIONAL PRACTICES MAY BE REQUIRED DURING THE COURSE OF CONSTRUCTION.

- 1. EXISTING CONDITIONS ARE FROM A SURVEY BY CIVIL SITE GROUP, DATED 10-28-2024
- 2. WELL LOCATION BY OWNER
- 3. SEPTIC LOCATION BY OWNER

5000 Glenwood Avenue

Golden Valley, MN 55422

civilsitegroup.com

612-615-0060

HOLDINGS S, RICHFIELD, MN

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4/4/2025 WATERSHED RESUBMITTAL

1.0' CONTOUR ELEVATION INTERVAL

DRAWN BY:RB

PROJECT NUMBER: 22425

DATE DESCRIPTION

REVISION SUMMARY

SILT FENCE / BIOROLL - GRADING LIMIT

EX. 1' CONTOUR ELEVATION INTERVAL

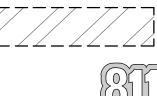


INLET PROTECTION

DRAINAGE ARROW

STABILIZED CONSTRUCTION ENTRANCE

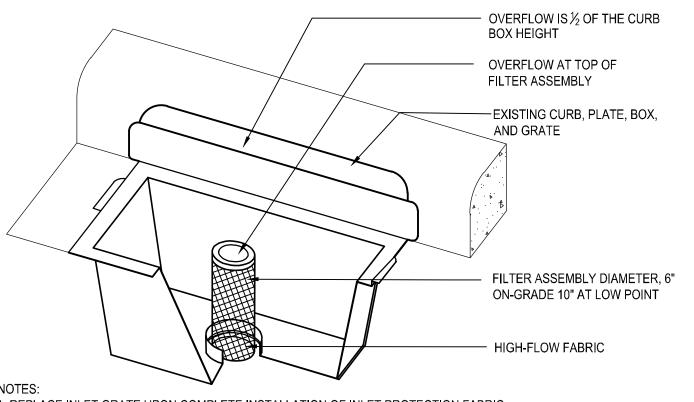
EROSION CONTROL BLANKET



Know what's **below. Call** before you dig.

SWPPP - PROPOSED CONDITIONS

REVIEWED BY: DK

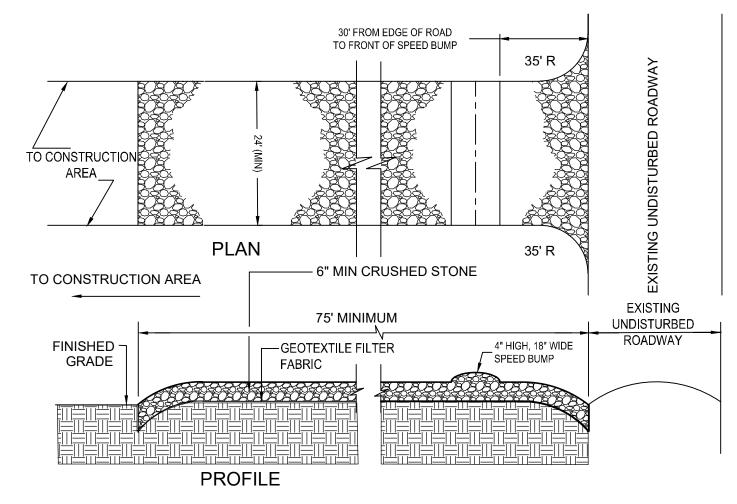


1. REPLACE INLET GRATE UPON COMPLETE INSTALLATION OF INLET PROTECTION FABRIC.

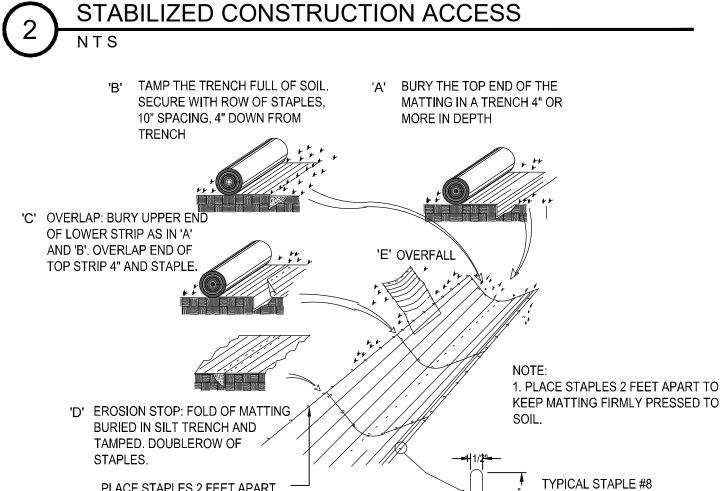
2. CONTRACTOR SHALL REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM THE SURFACE OF THE SYSTEM AFTER EACH STORM EVENT AND AT THE COMPLETION OF THE CONTRACT.

3. REFERENCE APPLE VALLEY STANDARD PLATE ERO-4C.

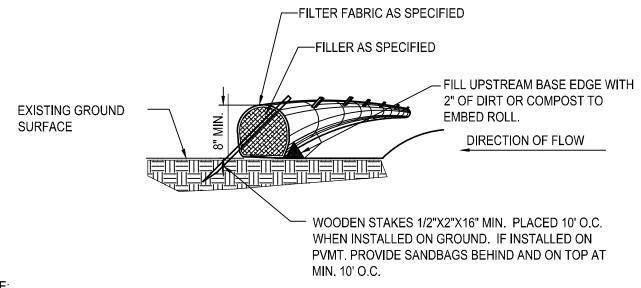
CURB INLET FILTER



- 1. PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED CONSTRUCTION ENTRANCE AND UNDISTURBED
- 2. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO UNDISTURBED ROADWAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDING STONE TO THE LENGTH OF THE ENTRANCE.
- 3. REPAIR AND CLEANOUT MEASURES USED TO TRAP SEDIMENT.
- 4. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO UNDISTURBED ROADWAY SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.
- 5. FINAL LOCATION AND INSTALLATION SHALL BE COORDINATED WITH THE CITY PRIOR TO CONSTRUCTION ACTIVITIES.
- 6. CRUSHED STONE SHALL BE 1-1/2" DIA. CLOSE GRADED, AND IN ACCORDANCE TO MNDOT SECTION 2118.



GAUGE WIRE

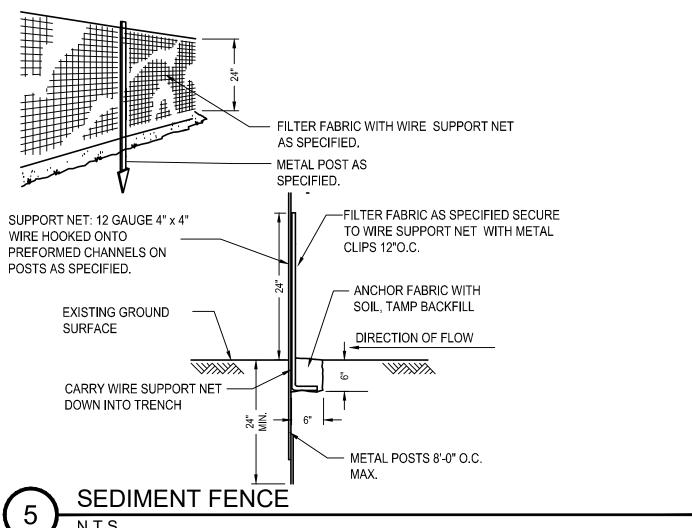


1. COMPOST FILTER LOGS (BIO ROLLS) SHALL BE FILTREXX EROSION CONTROL SOXX OR APPROVED EQUAL. 2. COMPOST FILLER TO BE MADE FROM A COMPOST BLEND 30%-40% GRADE 2 (SPEC 3890) AND 60%-70% PARTIALLY DECOMPOSED WOOD CHIPS, PER MNDOT SPEC 3897.

3. FILTER FABRIC SHALL BE GEOTEXTILE KNITTED MATERIAL WITH MAX. OPENINGS OF 3/8". 4. IF MULTIPLE ROLLS NEEDED, OVERLAP BY MIN. 12" AT ENDS AND STAKE.

5. SILT SHALL BE REMOVED ONCE IT REACHES 80% OF THE HEIGHT OF THE ROLL OR AS DEEMED NECESSARY BY SITE CONTRACTOR TO MAINTAIN PROPER FUNCTION.

SEDIMENT BIO-ROLL / COMPOST FILTER LOG



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GROU

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5000 Glenwood Avenue

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HOLDINGS S, RICHFIELD, MIN

RRAIN I AVENUE S

David J. Knaeble DATE 4/4/2025 LICENSE NO. 48776

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DRAWN BY:RB REVIEWED BY: DK PROJECT NUMBER: 22425

REVISION SUMMARY DATE DESCRIPTION

SWPPP - DETAILS

PLACE STAPLES 2 FEET APART TO KEEP MATTING FIRMLY PRESSED TO SOIL. **EROSION BLANKET**

STORMWATER DISCHARGE DESIGN REQUIREMENTS

SWPP

THE NATURE OF THIS PROJECT WILL BE CONSISTENT WITH WHAT IS REPRESENTED IN THIS SET OF CONSTRUCTION PLANS AND SPECIFICATIONS. SEE THE SWPPP PLAN SHEETS AND SWPPP NARRATIVE (ATTACHMENT A: CONSTRUCTION SWPPP TEMPLATE) FOR ADDITIONAL SITE SPECIFIC SWPPP INFORMATION. THE PLANS SHOW LOCATIONS AND TYPES OF ALL TEMPORARY AND PERMANENT EROSION PREVENTION AND SEDIMENT CONTROL BMP'S. STANDARD DETAILS ARE ATTACHED TO THIS SWPPP

THE INTENDED SEQUENCING OF MAJOR CONSTRUCTION ACTIVITIES IS AS FOLLOWS:

- 1. INSTALL STABILIZED ROCK CONSTRUCTION ENTRANCE
- 2. INSTALLATION OF SILT FENCE AROUND SITE
- 3. INSTALL ORANGE CONSTRUCTION FENCING AROUND INFILTRATION AREAS
 4. INSTALL INLET PROTECTION AT ALL ADJACENT AND DOWNSTREAM CATCH BASINS
- 5. CLEAR AND GRUB FOR TEMPORARY SEDIMENT BASIN / POND INSTALL
- 6. CONSTRUCT TEMPORARY SEDIMENT BASIN / POND (SECTION 14)
- 7. CLEAR AND GRUB REMAINDER OF SITE
- 8. STRIP AND STOCKPILE TOPSOIL
 9. ROUGH GRADING OF SITE
- 10. STABILIZE DENUDED AREAS AND STOCKPILES
- 11. INSTALL SANITARY SEWER, WATER MAIN STORM SEWER AND SERVICES
- 12. INSTALL SILT FENCE / INLET PROTECTION AROUND CB'S
- 13. INSTALL STREET SECTION
 14. INSTALL CURB AND GUTTER
- 15. BITUMINOUS ON STREETS
- 16. FINAL GRADE BOULEVARD, INSTALL SEED AND MULCH
- 17. REMOVE ACCUMULATED SEDIMENT FROM BASIN / POND
- 18. FINAL GRADE POND / INFILTRATION BASINS (DO NOT COMPACT SOILS IN INFILTRATION AREAS.)
 19. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED BY EITHER SEED OR SOD/LANDSCAPING,
- REMOVE SILT FENCE AND RESEED ANY AREAS DISTURBED BY THE REMOVAL.

RECORDS RETENTION:

THE SWPPP (ORIGINAL OR COPIES) INCLUDING, ALL CHANGES TO IT, AND INSPECTIONS AND MAINTENANCE RECORDS MUST BE KEPT AT THE SITE DURING CONSTRUCTION BY THE PERMITTEE WHO HAS OPERATIONAL CONTROL OF THAT PORTION OF THE SITE. THE SWPPP CAN BE KEPT IN EITHER THE FIELD OFFICE OR IN AN ON SITE VEHICLE DURING NORMAL WORKING HOURS.

ALL OWNER(S) MUST KEEP THE SWPPP, ALONG WITH THE FOLLOWING ADDITIONAL RECORDS, ON FILE FOR THREE (3) YEARS AFTER SUBMITTAL OF THE NOT AS OUTLINED IN SECTION 4. THIS DOES NOT INCLUDE ANY RECORDS AFTER SUBMITTAL OF THE NOT

1 THE FINAL SWPPP:

- 2. ANY OTHER STORMWATER RELATED PERMITS REQUIRED FOR THE PROJECT;
- 3. RECORDS OF ALL INSPECTION AND MAINTENANCE CONDUCTED DURING CONSTRUCTION (SEE SECTION 11, INSPECTIONS AND MAINTENANCE):
- 4. ALL PERMANENT OPERATION AND MAINTENANCE AGREEMENTS THAT HAVE BEEN IMPLEMENTED, INCLUDING ALL RIGHT OF WAY, CONTRACTS, COVENANTS AND OTHER BINDING REQUIREMENTS REGARDING PERPETUAL MAINTENANCE; AND
- 5. ALL REQUIRED CALCULATIONS FOR DESIGN OF THE TEMPORARY AND PERMANENT STORMWATER MANAGEMENT SYSTEMS.

SWPPP IMPLEMENTATION RESPONSIBILITIES:

- 1. THE OWNER AND CONTRACTOR ARE PERMITTEE(S) AS IDENTIFIED BY THE NPDES PERMIT.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ON-SITE IMPLEMENTATION OF THE SWPPP, INCLUDING THE ACTIVITIES OF ALL OF THE CONTRACTOR'S SUBCONTRACTORS.
- 3. CONTRACTOR SHALL PROVIDE A PERSON(S) KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL BMPS TO OVERSEE ALL INSTALLATION AND MAINTENANCE OF BMPS AND
- IMPLEMENTATION OF THE SWPPP.

 4. CONTRACTOR SHALL PROVIDE PERSON(S) MEETING THE TRAINING REQUIREMENTS OF THE NPDES PERMIT TO CONDUCT INSPECTION AND MAINTENANCE OF ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPS IN ACCORDANCE WITH THE REQUIREMENTS OF THE PERMIT. ONE OF THESE INDIVIDUAL(S) MUST BE AVAILABLE FOR AN ONSITE INSPECTION WITHIN 72 HOURS UPON REQUEST BY MPCA. CONTRACTOR SHALL PROVIDE TRAINING DOCUMENTATION FOR THESE INDIVIDUAL(S) AS REQUIRED BY THE NPDES PERMIT. THIS TRAINING DOCUMENTATION SHALL BE RECORDED IN OR WITH THE SWIPP BEFORE THE START OF CONSTRUCTION OR AS SOON AS THE PERSONNEL FOR THE PROJECT HAVE BEEN
- DETERMINED. DOCUMENTATION SHALL INCLUDE:
 4.1. NAMES OF THE PERSONNEL ASSOCIATED WITH THE PROJECT THAT ARE REQUIRED TO BE TRAINED PER SECTION
- 4.2. DATES OF TRAINING AND NAME OF INSTRUCTOR AND ENTITY PROVIDING TRAINING.
- 4.3. CONTENT OF TRAINING COURSE OR WORKSHOP INCLUDING THE NUMBER OF HOURS OF TRAINING.
 5. FOLLOWING FINAL STABILIZATION AND THE TERMINATION OF COVERAGE FOR THE NPDES PERMIT, THE OWNER IS EXPECTED TO FURNISH LONG TERM OPERATION AND MAINTENANCE (O & M) OF THE PERMANENT STORM WATER

CONSTRUCTION ACTIVITY REQUIREMENTS

SWPPP AMENDMENTS (SECTION 6):

- 1. ONE OF THE INDIVIDUALS DESCRIBED IN ITEM 21.2.A OR ITEM 21.2.B OR ANOTHER QUALIFIED INDIVIDUAL MUST COMPLETE ALL SWPPP CHANGES. CHANGES INVOLVING THE USE OF A LESS STRINGENT BMP MUST INCLUDE A JUSTIFICATION DESCRIBING HOW THE REPLACEMENT BMP IS EFFECTIVE FOR THE SITE CHARACTERISTICS.
- 2. PERMITTEES MUST AMEND THE SWPPP TO INCLUDE ADDITIONAL OR MODIFIED BMPS AS NECESSARY TO CORRECT PROBLEMS IDENTIFIED OR ADDRESS SITUATIONS WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, MAINTENANCE, WEATHER OR SEASONAL CONDITIONS HAVING A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS OR GROUNDWATER.
- 3. PERMITTEES MUST AMEND THE SWPPP TO INCLUDE ADDITIONAL OR MODIFIED BMPS AS NECESSARY TO CORRECT PROBLEMS IDENTIFIED OR ADDRESS SITUATIONS WHENEVER INSPECTIONS OR INVESTIGATIONS BY THE SITE OWNER OR OPERATOR, USEPA OR MPCA OFFICIALS INDICATE THE SWPPP IS NOT EFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS OR GROUNDWATER OR THE DISCHARGES ARE CAUSING WATER QUALITY STANDARD EXCEEDANCES (E.G., NUISANCE CONDITIONS AS DEFINED IN MINN. R. 7050.0210, SUBP. 2) OR THE SWPPP IS NOT CONSISTENT WITH THE OBJECTIVES OF A USEPA APPROVED TMDL.

BMP SELECTION AND INSTALLATION (SECTION 7):

1. 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.

EROSION PREVENTION (SECTION 8):

- BEFORE WORK BEGINS, PERMITTEES MUST DELINEATE THE LOCATION OF AREAS NOT TO BE DISTURBED.
 PERMITTEES MUST MINIMIZE THE NEED FOR DISTURBANCE OF PORTIONS OF THE PROJECT WITH STEEP SLOPES. WHEN STEEP SLOPES MUST BE DISTURBED, PERMITTEES MUST USE TECHNIQUES SUCH AS PHASING AND STABILIZATION
- PRACTICES DESIGNED FOR STEEP SLOPES (E.G., SLOPE DRAINING AND TERRACING).

 3. PERMITTEES MUST STABILIZE ALL EXPOSED SOIL AREAS, INCLUDING STOCKPILES. STABILIZATION MUST BE INITIATED IMMEDIATELY TO LIMIT SOIL EROSION WHEN CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. STABILIZATION MUST BE COMPLETED NO LATER THAN 14 CALENDAR DAYS AFTER THE CONSTRUCTION ACTIVITY HAS CEASED. STABILIZATION IS NOT REQUIRED ON CONSTRUCTED BASE COMPONENTS OF ROADS, PARKING LOTS AND SIMILAR SURFACES.

 STABILIZATION IS NOT REQUIRED ON TEMPORARY STOCKPILES WITHOUT SIGNIFICANT SILT, CLAY OR ORGANIC

COMPONENTS (E.G., CLEAN AGGREGATE STOCKPILES, DEMOLITION CONCRETE STOCKPILES, SAND STOCKPILES) BUT

- PERMITTEES MUST PROVIDE SEDIMENT CONTROLS AT THE BASE OF THE STOCKPILE.

 4. 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.
- 5. PERMITTEES MUST STABILIZE THE NORMAL WETTED PERIMETER OF THE LAST 200 LINEAR FEET OF TEMPORARY OR PERMANENT DRAINAGE DITCHES OR SWALES THAT DRAIN WATER FROM THE SITE WITHIN 24 HOURS AFTER CONNECTING TO A SURFACE WATER OR PROPERTY EDGE. PERMITTEES MUST COMPLETE STABILIZATION OF REMAINING PORTIONS OF

- TEMPORARY OR PERMANENT DITCHES OR SWALES WITHIN 14 CALENDAR DAYS AFTER CONNECTING TO A SURFACE WATER OR PROPERTY EDGE AND CONSTRUCTION IN THAT PORTION OF THE DITCH TEMPORARILY OR PERMANENTLY
- 6. TEMPORARY OR PERMANENT DITCHES OR SWALES BEING USED AS A SEDIMENT CONTAINMENT SYSTEM DURING CONSTRUCTION (WITH PROPERLY DESIGNED ROCK-DITCH CHECKS, BIO ROLLS, SILT DIKES, ETC.) DO NOT NEED TO BE STABILIZED. PERMITTEES MUST STABILIZE THESE AREAS WITHIN 24 HOURS AFTER THEIR USE AS A SEDIMENT CONTAINMENT SYSTEM CEASES
- CONTAINMENT SYSTEM CEASES

 7. PERMITTEES MUST NOT USE MULCH, HYDROMULCH, TACKIFIER, POLYACRYLAMIDE OR SIMILAR EROSION PREVENTION PRACTICES WITHIN ANY PORTION OF THE NORMAL WETTED PERIMETER OF A TEMPORARY OR PERMANENT DRAINAGE DITCH OR SWALE SECTION WITH A CONTINUOUS SLOPE OF GREATER THAN 2 PERCENT.
- 8. 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.
- 9. PERMITTEES MUST NOT DISTURB MORE LAND (I.E., PHASING) THAN CAN BE EFFECTIVELY INSPECTED AND MAINTAINED IN

SEDIMENT CONTROL (SECTION 9):

- 1. PERMITTEES MUST ESTABLISH SEDIMENT CONTROL BMPS ON ALL DOWNGRADIENT PERIMETERS OF THE SITE AND DOWNGRADIENT AREAS OF THE SITE THAT DRAIN TO ANY SURFACE WATER, INCLUDING CURB AND GUTTER SYSTEMS. PERMITTEES MUST LOCATE SEDIMENT CONTROL PRACTICES UPGRADIENT OF ANY BUFFER ZONES. PERMITTEES MUST INSTALL SEDIMENT CONTROL PRACTICES BEFORE ANY UPGRADIENT LAND-DISTURBING ACTIVITIES BEGIN AND MUST KEEP
- THE SEDIMENT CONTROL PRACTICES IN PLACE UNTIL THEY ESTABLISH PERMANENT COVER.

 2. IF DOWNGRADIENT SEDIMENT CONTROLS ARE OVERLOADED, BASED ON FREQUENT FAILURE OR EXCESSIVE MAINTENANCE REQUIREMENTS, PERMITTEES MUST INSTALL ADDITIONAL UPGRADIENT SEDIMENT CONTROL PRACTICES OR REDUNDANT BMPS TO ELIMINATE THE OVERLOADING AND AMEND THE SWPPP TO IDENTIFY THESE ADDITIONAL PRACTICES AS REQUIRED IN ITEM 6.3.
- 3. TEMPORARY OR PERMANENT DRAINAGE DITCHES AND SEDIMENT BASINS DESIGNED AS PART OF A SEDIMENT CONTAINMENT SYSTEM (E.G., DITCHES WITH ROCK-CHECK DAMS) REQUIRE SEDIMENT CONTROL PRACTICES ONLY AS
- APPROPRIATE FOR SITE CONDITIONS.

 4. 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 WATERLINE. IMMEDIATELY AFTER THE SHORT TERM CONSTRUCTION ACTIVITY (E.G., INSTALLATION OF RIP RAP ALONG THE SHORELINE) IN THAT AREA IS COMPLETE, PERMITTEES MUST INSTALL AN UPLAND PERIMETER CONTROL PRACTICE IF EXPOSED SOILS STILL DRAIN TO A SURFACE WATER.

5. PERMITTEES MUST RE-INSTALL ALL SEDIMENT CONTROL PRACTICES ADJUSTED OR REMOVED TO ACCOMMODATE

- SHORT-TERM ACTIVITIES SUCH AS CLEARING OR GRUBBING, OR PASSAGE OF VEHICLES, IMMEDIATELY AFTER THE SHORT-TERM ACTIVITY IS COMPLETED. PERMITTEES MUST RE-INSTALL SEDIMENT CONTROL PRACTICES BEFORE THE NEXT PRECIPITATION EVENT EVEN IF THE SHORT-TERM ACTIVITY IS NOT COMPLETE.
- 6. 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.
- 7. 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 JURISDICTIONAL AUTHORITY (E.G., CITY/COUNTY/TOWNSHIP/MINNESOTA DEPARTMENT OF TRANSPORTATION ENGINEER). PERMITTEES MUST DOCUMENT THE NEED FOR REMOVAL IN THE SWPPP.
- 8. PERMITTEES MUST PROVIDE SILT FENCE OR OTHER EFFECTIVE SEDIMENT CONTROLS AT THE BASE OF STOCKPILES ON THE DOWNGRADIENT PERIMETER
- 9. 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
- 10. 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.
- 11. PERMITTEES MUST USE STREET SWEEPING IF VEHICLE TRACKING BMPS ARE NOT ADEQUATE TO PREVENT SEDIMENT TRACKING ONTO THE STREET.
- 12. PERMITTEES MUST INSTALL TEMPORARY SEDIMENT BASINS AS REQUIRED IN SECTION 14.

 13. IN ANY AREAS OF THE SITE WHERE FINAL VEGETATIVE STABILIZATION WILL OCCUR, PERMITTEES MUST RESTRICT VEHICLE
- AND EQUIPMENT USE TO MINIMIZE SOIL COMPACTION.
- 14. PERMITTEES MUST PRESERVE TOPSOIL ON THE SITE, UNLESS INFEASIBLE.15. PERMITTEES MUST DIRECT DISCHARGES FROM BMPS TO VEGETATED AREAS UNLESS INFEASIBLE.
- 16. PERMITTEES MUST PRESERVE A 50 FOOT NATURAL BUFFER OR, IF A BUFFER IS INFEASIBLE ON THE SITE, PROVIDE REDUNDANT (DOUBLE) PERIMETER SEDIMENT CONTROLS WHEN A SURFACE WATER IS LOCATED WITHIN 50 FEET OF THE PROJECT'S EARTH DISTURBANCES AND STORMWATER FLOWS TO THE SURFACE WATER. PERMITTEES MUST INSTALL PERIMETER SEDIMENT CONTROLS AT LEAST 5 FEET APART UNLESS LIMITED BY LACK OF AVAILABLE SPACE. NATURAL BUFFERS ARE NOT REQUIRED ADJACENT TO ROAD DITCHES, JUDICIAL 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 SWEPP. SHEET PILING IS A REDUNDANT PERIMETER CONTROL IF
- INSTALLED IN A MANNER THAT RETAINS ALL STORMWATER.

 17. 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 MANUFACTURER 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.

DEWATERING AND BASIN DRAINING (SECTION 10):

- 1. PERMITTEES MUST DISCHARGE TURBID OR SEDIMENT-LADEN WATERS RELATED TO DEWATERING OR BASIN DRAINING (E.G., PUMPED DISCHARGES, TRENCH/DITCH CUTS FOR DRAINAGE) TO A TEMPORARY OR PERMANENT SEDIMENT BASIN ON THE PROJECT SITE UNLESS INFEASIBLE. PERMITTEES MAY DEWATER TO SURFACE WATERS IF THEY VISUALLY CHECK 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 CANNOT DISCHARGE THE WATER TO A SEDIMENTATION BASIN PRIOR TO ENTERING A SURFACE WATER, PERMITTEES MUST TREAT IT WITH APPROPRIATE BMPS SUCH THAT THE DISCHARGE DOES NOT ADVERSELY AFFECT THE SURFACE WATER OR DOWNSTREAM PROPERTIES.
- 2. IF PERMITTEES MUST DISCHARGE WATER CONTAINING OIL OR GREASE, THEY MUST USE AN OIL-WATER SEPARATOR OR SUITABLE FILTRATION DEVICE (F.G., CARTRIDGE FILTERS, ABSORBENTS PADS) PRIOR TO DISCHARGE
- SUITABLE FILTRATION DEVICE (E.G., CARTRIDGE FILTERS, ABSORBENTS PADS) PRIOR TO DISCHARGE.

 3. PERMITTEES MUST DISCHARGE ALL WATER FROM DEWATERING OR BASIN-DRAINING ACTIVITIES IN A MANNER THAT DOES NOT CAUSE EROSION OR SCOUR IN THE IMMEDIATE VICINITY OF DISCHARGE POINTS OR INUNDATION OF WETLANDS IN
- THE IMMEDIATE VICINITY OF DISCHARGE POINTS THAT CAUSES SIGNIFICANT ADVERSE IMPACT TO THE WETLAND.

 4. IF PERMITTEES USE FILTERS WITH BACKWASH WATER, THEY MUST HAUL THE BACKWASH WATER AWAY FOR DISPOSAL, RETURN THE BACKWASH WATER TO THE BEGINNING OF THE TREATMENT PROCESS, OR INCORPORATE THE BACKWASH WATER INTO THE SITE IN A MANNER THAT DOES NOT CAUSE EROSION.

INSPECTIONS AND MAINTENANCE (SECTION 11):

- 1. 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.
 2. PERMITTEES MUST INSPECT AND MAINTAIN ALL PERMANENT STORMWATER TREATMENT BMPS.
- 3. PERMITTEES MUST INSPECT ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPS AND POLLUTION PREVENTION MANAGEMENT MEASURES TO ENSURE INTEGRITY AND EFFECTIVENESS. PERMITTEES MUST REPAIR, REPLACE OR SUPPLEMENT ALL NONFUNCTIONAL BMPS WITH FUNCTIONAL BMPS BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY UNLESS ANOTHER TIME FRAME IS SPECIFIED IN ITEM 11.5 OR 11.6. PERMITTEES MAY TAKE ADDITIONAL TIME IF FIELD CONDITIONS PREVENT ACCESS TO THE AREA.
- 4. DURING EACH INSPECTION, PERMITTEES MUST INSPECT SURFACE WATERS, INCLUDING DRAINAGE DITCHES AND CONVEYANCE SYSTEMS BUT NOT CURB AND GUTTER SYSTEMS, FOR EVIDENCE OF EROSION AND SEDIMENT DEPOSITION. PERMITTEES MUST REMOVE ALL DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS, INCLUDING DRAINAGE WAYS, CATCH BASINS, AND OTHER DRAINAGE SYSTEMS AND RESTABILIZE THE AREAS WHERE SEDIMENT REMOVAL RESULTS IN EXPOSED SOIL. PERMITTEES MUST COMPLETE REMOVAL AND STABILIZATION WITHIN SEVEN (7) CALENDAR DAYS OF DISCOVERY UNLESS PRECLUDED BY LEGAL, REGULATORY, OR PHYSICAL ACCESS CONSTRAINTS. PERMITTEES MUST USE ALL REASONABLE EFFORTS TO OBTAIN ACCESS. IF PRECLUDED, REMOVAL AND STABILIZATION MUST TAKE PLACE WITHIN SEVEN (7) DAYS OF OBTAINING ACCESS. PERMITTEES ARE RESPONSIBLE FOR CONTACTING ALL LOCAL, REGIONAL, STATE AND FEDERAL AUTHORITIES AND RECEIVING ANY APPLICABLE PERMITS, PRIOR TO CONDUCTING ANY WORK IN SURFACE
- 5. PERMITTEES MUST INSPECT CONSTRUCTION SITE VEHICLE EXIT LOCATIONS, STREETS AND CURB AND GUTTER SYSTEMS WITHIN AND ADJACENT TO THE PROJECT FOR SEDIMENTATION FROM EROSION OR TRACKED SEDIMENT FROM VEHICLES. PERMITTEES MUST REMOVE SEDIMENT FROM ALL PAVED SURFACES WITHIN ONE (1) CALENDAR DAY OF DISCOVERY OR, IF
- APPLICABLE, WITHIN A SHORTER TIME TO AVOID A SAFETY HAZARD TO USERS OF PUBLIC STREETS.

 6. 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.
- 7. 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.

 8. PERMITTEES MUST ENSURE THAT AT LEAST ONE INDIVIDUAL PRESENT ON THE SITE (OR AVAILABLE TO THE PROJECT SITE
- 8. 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.
 9. PERMITTEES MAY ADJUST THE INSPECTION SCHEDULE DESCRIBED IN ITEM 11.2 AS FOLLOWS:
 a. INSPECTIONS OF AREAS WITH PERMANENT COVER CAN BE REDUCED TO ONCE PER MONTH, EVEN IF CONSTRUCTION
- ACTIVITY CONTINUES ON OTHER PORTIONS OF THE SITE; OR

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

- RESUME IF CONDITIONS WARRANT: OR
- 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
- 10. 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 AND DESCRIBE THE LOCATION OF THE DISCHARGE (I.E., COLOR, ODOR, SETTLED OR SUSPENDED SOLIDS, OIL SHEEN, AND OTHER OBVIOUS INDICATORS OF POLLUTANTS); AND
- g. ANY AMENDMENTS TO THE SWPPP PROPOSED AS A RESULT OF THE INSPECTION MUST BE DOCUMENTED AS REQUIRED IN SECTION 6 WITHIN SEVEN (7) CALENDAR DAYS.

POLLUTION PREVENTION MANAGEMENT (SECTION 12):

- 1. 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.
- PERMITTEES MUST PLACE PESTICIDES, FERTILIZERS AND TREATMENT CHEMICALS UNDER COVER (E.G., PLASTIC SHEETING OR TEMPORARY ROOFS) OR PROTECT THEM BY SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WITH STORMWATER.
- 3. 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 SPILLS, LEAKS OR OTHER DISCHARGE. STORAGE AND DISPOSAL OF HAZARDOUS WASTE MATERIALS MUST BE IN COMPLIANCE WITH MINN. R. CH. 7045 INCLUDING SECONDARY CONTAINMENT AS APPLICABLE.
- 4. PERMITTEES MUST PROPERLY STORE, COLLECT AND DISPOSE SOLID WASTE IN COMPLIANCE WITH MINN. R. CH. 7035.
 5. 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.

 6. PERMITTEES MUST TAKE REASONABLE STEPS TO PREVENT THE DISCHARGE OF SPILLED OR LEAKED CHEMICALS,
- 6. PERMITTEES MUST TAKE REASONABLE STEPS TO PREVENT THE DISCHARGE OF SPILLED OR LEAKED CHEMICALS, INCLUDING FUEL, FROM ANY AREA WHERE CHEMICALS OR FUEL WILL BE LOADED OR UNLOADED INCLUDING THE USE OF DRIP PANS OR ABSORBENTS UNLESS INFEASIBLE. PERMITTEES MUST ENSURE ADEQUATE SUPPLIES ARE AVAILABLE AT ALL TIMES TO CLEAN UP DISCHARGED MATERIALS AND THAT AN APPROPRIATE DISPOSAL METHOD IS AVAILABLE FOR RECOVERED SPILLED MATERIALS. PERMITTEES MUST REPORT AND CLEAN UP SPILLS IMMEDIATELY AS REQUIRED BY MINN. STAT. 115.061, USING DRY CLEAN UP MEASURES WHERE POSSIBLE.
- 7. 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.
- 8. PERMITTEES MUST PROVIDE EFFECTIVE CONTAINMENT FOR ALL LIQUID AND SOLID WASTES GENERATED BY WASHOUT OPERATIONS (E.G., CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS) RELATED TO THE CONSTRUCTION ACTIVITY. PERMITTEES MUST PREVENT LIQUID AND SOLID WASHOUT WASTES FROM CONTACTING THE GROUND AND MUST DESIGN THE CONTAINMENT SO IT DOES NOT RESULT IN RUNOFF FROM THE WASHOUT OPERATIONS OR AREAS. PERMITTEES MUST PROPERLY DISPOSE LIQUID AND SOLID WASTES IN COMPLIANCE WITH MPCA RULES. PERMITTEES MUST INSTALL A SIGN INDICATING THE LOCATION OF THE WASHOUT FACILITY.

PERMIT TERMINATION (SECTION 4 AND SECTION 13):

- 1. PERMITTEES MUST SUBMIT A NOT WITHIN 30 DAYS AFTER ALL TERMINATION CONDITIONS LISTED IN SECTION 13 ARE COMPLETE.
- 2. 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.
- 3. 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 DENSITY OF 70 PERCENT OF ITS EXPECTED FINAL GROWTH. VEGETATION IS NOT REQUIRED WHERE THE FUNCTION OF A SPECIFIC AREA DICTATES NO VEGETATION, SUCH AS IMPERVIOUS SURFACES OR THE BASE OF A SAND FILTER.
- 4. PERMITTEES MUST CLEAN THE PERMANENT STORMWATER TREATMENT SYSTEM OF ANY ACCUMULATED SEDIMENT AND MUST ENSURE THE SYSTEM MEETS ALL APPLICABLE REQUIREMENTS IN SECTION 15 THROUGH 19 AND IS OPERATING AS DESIGNED.
- 5. PERMITTEES MUST REMOVE ALL SEDIMENT FROM CONVEYANCE SYSTEMS PRIOR TO SUBMITTING THE NOT.
 6. PERMITTEES MUST REMOVE ALL TEMPORARY SYNTHETIC EROSION PREVENTION AND SEDIMENT CONTROL BMPS PRIOR
- TO SUBMITTING THE NOT. PERMITTEES MAY LEAVE BMPS DESIGNED TO DECOMPOSE ON-SITE IN PLACE.

 7. FOR RESIDENTIAL CONSTRUCTION ONLY, PERMIT COVERAGE TERMINATES ON INDIVIDUAL LOTS IF THE STRUCTURES ARE FINISHED AND TEMPORARY EROSION PREVENTION AND DOWNGRADIENT PERIMETER CONTROL IS COMPLETE, THE RESIDENCE SELLS TO THE HOMEOWNER, AND THE PERMITTEE DISTRIBUTES THE MPCA'S "HOMEOWNER FACT SHEET" TO
- THE HOMEOWNER.

 8. 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.

SEED NOTES:

ALL SEED MIXES AND APPLICATION SHALL BE IN ACCORDANCE WITH THE MNDOT SEEDING MANUAL.

GENERAL RECOMMENDATIONS:

THE CONTRACTOR IS RESPONSIBLE TO SALVAGE AND PRESERVE EXISTING TOPSOIL NECESSARY FOR FINAL STABILIZATION AND TO ALSO MINIMIZE COMPACTION IN ALL LANDSCAPE AREAS. IMMEDIATELY BEFORE SEEDING THE SOIL SHALL BE TILLED TO A MINIMUM DEPTH OF 3 INCHES.

TEMPORARY EROSION CONTROL SEEDING, MULCHING & BLANKET.

SEED

• TEMPORARY SEED SHALL BE MNDOT SEED MIX 21-112 (WINTER WHEAT COVER CROP) FOR WINTER AND 21-111 (OATS COVER CROP) FOR SPRING/SUMMER APPLICATIONS. BOTH SEED MIXES SHALL BE APPLIED AT A SEEDING RATE OF 100 LBS/ACRE.

MULCH • IMMEDI

IMMEDIATELY AFTER SEEDING, WITHIN 24 HOURS, MNDOT TYPE 1 MULCH SHOULD BE APPLIED TO PROTECT AND ENHANCE SEED GERMINATION. MULCH SHALL BE APPLIED AT 90% COVERAGE (2 TONS PER ACRE OF STRAW MULCH)

SLOPES

- 3:1 (HORIZ/VERT.) OR FLATTER MUCH SHALL BE COVERED WITH MULCH
- SLOPES STEEPER THAN 3:1 OR DITCH BOTTOMS SHALL BE COVERED WITH EROSION CONTROL BLANKET.
 SEE PLAN FOR MORE DETAILED DITCH AND STEEP SLOPE EROSION CONTROL TREATMENTS.

AREAS AND QUANTITIES:

SITE AREA CALCULATIONS				
	EXISTING CON	IDITION	PROPOSED O	CONDITION
BUILDING COVERAGE	0 SF	0.0%	6,831 SF	8.6%
ALL PAVEMENTS	0 SF	0.0%	15,979 SF	20.1%
ALL NON-PAVEMENTS	79,600 SF	100.0%	56,790 SF	71.3%
TOTAL DISTURBED AREA	79,600 SF	100.0%	79,600 SF	100.0%

0 SF	0.0%
22,810 SF	28.7%
22,810 SF	28.7%
	22,810 SF

EROSION CONTROL QUANTITIES

DISTURBED AREA 79,600 SF

SILT FENCE/BIO-ROLL ±1400 LF

EROSION CONTROL BLANKET 27,500 SF

CONSTRUCTION ENTRANCE 1 EA

INLET PROTECTION DEVICES 4 EA

NOTE: QUANTITIES ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL DETERMINE FOR THEMSELVES THE EXACT QUANTITIES FOR BIDDING AND CONSTRUCTION.

TRAINING SECTION 21

DESIGN ENGINEER: DAVID J. KNAEBLE P.E.
TRAINING COURSE: DESIGN OF SWPPP
TRAINING ENTITY: UNIVERSITY OF MINNESOTA
INSTRUCTOR: JOHN CHAPMAN
DATES OF TRAINING COURSE: 8/22/2012- 8/23/2012
TOTAL TRAINING HOURS: 12
DATE OF RECERTIFICATION: 4/22/22

SWPPP CONTACT PERSON

ONTRACTOR:

SWPPP INSPECTOR TRAINING:
ALL SWPPP INSPECTIONS MUST BE PERFORMED BY A
PERSON THAT MEETS THE TRAINING REQUIREMENTS OF THE
NPDES CONSTRUCTION SITE PERMIT.
TRAINING CREDENTIALS SHALL BE PROVIDED BY THE
CONTRACTOR AND KEPT ON SITE WITH THE SWPPP

OWNER INFORMATION

TERRAIN HOLDINGS

6436 PENN AVENUE S

RICHFIELD, MN 55423

651-287-8891

CONTACT: ALEX YOUNG

AYOUNG@MSPCOMMERCIAL.COM

PARTY RESPONSIBLE FOR LONG TERM OPERATION AND MAINTENANCE OF PERMANENT STORM WATER MANAGEMENT SYSTEM

PERMANENT STORMWATER MANAGEMENT IS NOT REQUIRED AS PART OF THIS PROJECT TO MEET NPDES PERMIT REQUIREMENTS.

SWPPP ATTACHMENTS (ONLY APPLICABLE IF SITE IS 1 ACRE OR GREATER):

- CONTRACTOR SHALL OBTAIN A COPY OF THE FOLLOWING SWPPP ATTACHMENTS WHICH ARE A PART OF THE OVERALL SWPPP PACKAGE: ATTACHMENT A. CONSTRUCTION SWPPP TEMPLATE SITE SPECIFIC SWPPP DOCUMENT
- ATTACHMENT B. CONSTRUCTION STORMWATER INSPECTION CHECKLIST
- ATTACHMENT C. MAINTENANCE PLAN FOR PERMANENT STORM WATER TREATMENT SYSTEMS
 ATTACHMENT D: STORMWATER MANAGEMENT REPORT ON FILE AT THE OFFICE OF PROJECT ENGINEER. AVAILABLE UPON REQUEST.
 ATTACHMENT E: GEOTECHNICAL EVALUATION REPORT ON FILE AT THE OFFICE OF PROJECT ENGINEER. AVAILABLE UPON REQUEST.

SUPPLEMENTARY SITE SPECIFIC EROSION CONTROL NOTES: THESE NOTES SUPERCEDE ANY GENERAL SWPPP NOTES.

THIS PROJECT IS GREATER THAN 1.0 ACRES SO AN NPDES PERMIT IS REQUIRED AND NEEDS TO BE SUBMITTED TO THE MPCA. THE CONTRACTOR IS REQUIRED TO FOLLOW THE GUIDELINES IN THE NPDES PERMIT THROUGHOUT CONSTRUCTION.

THE PROJECT CONSISTS OF A PROPOSED HOUSE AND DRIVEWAY. SITE, GRADING, UTILITY AND LANDSCAPE IMPROVEMENTS WILL OCCUR.

NATIVE BUFFER NARRATIVE:

PROJECT NARRATIVE:

PRESERVING A 50 FEET NATURAL BUFFER AROUND WATER BODIES IS NOT PROVIDED IN THESE PLANS DUE TO GRADING REQUIRED ADJACENT TO THE EXISTING WATER BODY. REDUNDANT PERIMETER EROSION CONTROL WILL BE PROVIDED WHEN A SURFACE WATER BODY IS LOCATED WITHIN

SOIL CONTAMINATION NARRATIVE:

50 FEET OF THE PROJECTS DISTURBANCE.

MPCA'S 303(D) IMPAIRED WATERS LIST.

SOILS ONSITE HAVE NOT BEEN IDENTIFIED AS CONTAMINATED. SINCE NO CONTAMINATION EXISTS, INFILTRATION IS FEASIBLE AS LONG AS SOIL TYPE IS CONDUCIVE TO INFILTRATION.

THIS PROJECT IS WITHIN ONE MILE AND DISCHARGES TO PIERSON LAKE. PIERSON LAKE IS NOT IDENTIFIED AS IMPAIRED WATER BODIES PER THE

SPECIAL TMDL BMP REQUIREMENTS SITE SPECIFIC (IF REQUIRED)

PERMANENT STABILIZATION NOTES SITE SPECIFIC:

- PERMANENT SEED MIX

 FOR THIS PROJECT ALL AREAS THAT ARE NOT TO BE SODDED OR LANDSCAPED SHALL RECEIVE A NATIVE PERMANENT SEED MIX.

 •• AREAS IN BUFFERS AND ADJACENT TO OR IN WET AREAS MNDOT SEED MIX 33-261 (STORMWATER SOUTH AND WEST) AT 35 LBS PER
- •• DRY AREAS MNDOT SEED MIX 35-221 (DRY PRAIRIE GENERAL) AT 40 LBS PER ACRE.
- MAINTENANCE SHALL BE IN ACCORDANCE TO THE MNDOT SEEDING MANUAL.

Civil Engineering • Surveying • Landscape Architect

5000 Glenwood Avenue
Golden Valley, MN 55422

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HOUSE PLAN

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V 1 0020

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

David J. Knaeble

DATE 4/4/2025 LICENSE NO. 48776

MINNESOTA

ISSUE/SUBMITTAL SUMMARY

DATE DESCRIPTION

2/10/2025 WATERSHED SUBMITTAL

3/20/2025 WATERSHED RESUBMITTAL

4/4/2025 WATERSHED RESUBMITTAL

REVIEWED BY: DK

PROJECT NUMBER: 22425

REVISION SUMMARY

DATE DESCRIPTION

RAWN BY:RB

SWPPP - NARRATIVE

SW1.3

PROJECT NAME: LAKEWOOD SUBDIVISION PROJECT LOCATION (BRIEFLY DESCRIBE WHERE CONSTRUCTION ACTIVITY OCCURS. INCLUDE ADDRESS IF AVAILABLE.)

ADDRESS: 9501 LAKEWOOD CIRCLE CITY OR TOWNSHIP: LAKETOWN TOWNSHIP

ZIP CODE: 55318 LATITUDE/LONGITUDE OF APPROXIMATE CENTROID OF PROJECT: 44° 49' 56.45" N, 93° 42' 21.79" E METHOD OF LAT/LONG COLLECTION (CIRCLE ONE): GPS ONLINE TOOL USGS TOPOGRAPHIC

ALL CITIES WHERE CONSTRUCTION WILL OCCUR: N.A.

ALL COUNTIES WHERE CONSTRUCTION WILL OCCUR: CARVER ALL TOWNSHIPS WHERE CONSTRUCTION WILL OCCUR: LAKETOWN

PROJECT TYPE (CIRCLE ONE): RESIDENTIAL COMMERCIAL/INDUSTRIAL ROAD CONSTRUCTION RESIDENTIAL & RD CONSTRUCTION OTHER (DESCRIBE):

CUMULATIVE IMPERVIOUS SURFACE (TO THE NEAREST TENTH ACRE)

EXISTING AREA OF IMPERVIOUS SURFACE: 0.0 POST CONSTRUCTION AREA OF IMPERVIOUS SURFACE: 0.5

PROJECT SIZE (NUMBER OF ACRES TO BE DISTURBED): 1.7

TOTAL NEW AREA OF IMPERVIOUS SURFACE: 0.5

RECEIVING WATERS

WATER BODY ID	NAME OF WATER BODY	WATER BODY TYPE	SPECIAL WATER? (Y/N)	IMPAIRED WATER (Y/N)
N.A.	PIERSON LAKE	LAKE	NO	NO

DATES OF CONSTRUCTION

CONSTRUCTION START DATE: 06/2025

ESTIMATED COMPLETION DATE: 06/2026

GENERAL CONSTRUCTION PROJECT INFORMATION

DESCRIBE THE CONSTRUCTION ACTIVITY: CONSTRUCTION OF BUILDING AND DRIVEWAY DESCRIBE SOIL TYPES FOUND AT THE PROJECT: SEE SOILS MAP

SITE LOCATION MAP



1. DESCRIBE THE LOCATION AND TYPE OF ALL TEMPORARY AND PERMANENT EROSION PREVENTION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMP'S). INCLUDE THE TIMING FOR INSTALLATION AND PROCEDURES USED TO ESTABLISH ADDITIONAL TEMPORARY BMP'S AS NECESSARY. (5.5)

THE PROJECT IS PROTECTED BY SILT FENCE AND INLET PROTECTION DEVICES. THE SILT FENCE WILL BE INSTALLED AT THE DOWNHILL LOCATIONS OF THE SITE AND MONITORED AS NECESSARY. INLET PROTECTION DEVICES WILL BE INSTALLED IN ALL CATCH BASINS ON THE SITE AND ANY OFF SITE THAT WILL RECEIVE STORMWATER RUNOFF FROM THIS SITE. AS THE PROJECT PROGRESSES ADDITIONAL BMP'S SUCH AS EROSION CONTROL BLANKETS MAY

2. ATTACH TO THIS SWPPP A TABLE WITH THE ANTICIPATED QUANTITIES FOR THE LIFE OF THE PROJECT FOR ALL EROSION PREVENTION AND SEDIMENT CONTROL BMP'S (5.7). SEE PAGE SW1.3

: ATTACH TO THIS SWPPP A SITE MAP THAT INCLUDES THE FOLLOWING FEATURES (5.9 EXIST AND FINAL GRADES, INCLUDING DIVIDING LINES AND DIRECTION OF FLOW FOR ALL PRE AND POST-CONSTRUCTION STORMWATER RUNOFF DRAINAGE AREAS LOCATED WITHIN THE PROJECT LIMITS.

LOCATIONS OF IMPERVIOUS SURFACES AND SOIL TYPES.

• EXISTING AND FINAL GRADES, INCLUDING DIVIDING LINES AND DIRECTION OF FLOW FOR ALL PRE AND POST-CONSTRUCTION STORMWATER RUNOFF DRAINAGE AREAS LOCATED WITHIN PROJECT LIMITS.

LOCATIONS OF AREAS NOT TO BE DISTURBED LOCATION OF AREAS OF PHASED CONSTRUCTION

• ALL SURFACE WATERS AND EXISTING WETLANDS WITHIN ONE MILE FROM THE PROJECT BOUNDARIES THAT WILL RECEIVE STORMWATER RUNOFF FROM THE SITE (IDENTIFIABLE ON MAPS SUCH AS USGS 7.5 MINUTE QUADRANGLE MAPS OR EQUIVALENT. WHERE SURFACE WATERS RECEIVING RUNOFF ASSOCIATED WITH CONSTRUCTION ACTIVITY WILL NOT FIT ON THE PLAN SHEET, THEY MUST BE IDENTIFIED WITH AN ARROW, INDICATING

BOTH DIRECTION AND DISTANCE TO THE SURFACE WATER METHODS TO BE USED FOR FINAL STABILIZATION OF ALL EXPOSED SOIL AREA

4. WERE STORMWATER MITIGATION MEASURES REQUIRED AS THE RESULT OF AN ENVIRONMENTAL, ARCHAEOLOGICAL, OR OTHER REQUIRED LOCAL, STATE OR FEDERAL REVIEW OF THE PROJECT? NO

IF YES, DESCRIBE HOW THESE MEASURES WERE ADDRESSED IN THE SWPPP. (5.16)

5. IS THE PROJECT LOCATED IN A KARST AREA SUCH THAT ADDITIONAL MEASURES WOULD BE NECESSARY TO PROJECT DRINKING WATER SUPPLY MANAGEMENT AREAS AS DESCRIBED IN MINN. R. CHAPTERS 7050 AND 7060? NO

IF YES, DESCRIBE THE ADDITIONAL MEASURES TO BE USED. (SECTION 23)

6. DOES THE SITE DISCHARGE TO A CALCEREOUS FEN LISTED IN MINN. R. 7050.0180, SUBP. 6.B? NO IF YES, A LETTER OF APPROVAL FROM THE MINNESOTA DEPARTMENT OF NATURAL RESOURCES MUST BE OBTAINED PRIOR TO APPLICATION FOR THIS PERMIT.

7. DOES THE SITE DISCHARGE TO A WATER THAT IS LISTED AS IMPAIRED FOR THE FOLLOWING POLLUTANT(S) OR STRESSOR(S): PHOSPHORUS, TURBIDITY, DISSOLVED OXYGEN OR BIOTIC IMPAIRMENT? USE THE SPECIAL AND IMPAIRED WATERS SEARCH TOOL AT: WWW.PCA.STATE.MN.US/WATER/STORMWATER/STORMWATER-C.HTML

IF NO. SKIP TO TRAINING

DOES THE IMPAIRED WATER HAVE AN APPROVED TOTAL MAXIMUM DAILY LOADS (TMDL) WITH AN APPROVED WASTE LOAD ALLOCATION FOR CONSTRUCTION ACTIVITY? N/A

A. LIST THE RECEIVING WATER. THE AREAS OF THE SITE DISCHARGING TO IT. AND THE POLLUTANT(S) IDENTIFIED IN THE TMDL

B. LIST THE BMP'S AND ANY OTHER SPECIFIC CONSTRUCTION STORMWATER RELATED IMPLEMENTATION ACTIVITIES IDENTIFIED IN THE TMDL.

IF THE SITE HAS A DISCHARGE POINT WITHIN ONE MILE OF THE IMPAIRED WATER AND THE WATER FLOWS TO THE IMPAIRED WATER BUT NO SPECIFIC BMPS FOR CONSTRUCTION ARE IDENTIFIED IN THE TMDL, THE ADDITIONAL BMPS IN SECTION 23 MUST BE ADDED TO THE SWPPP AND IMPLEMENTED (15.19). THE ADDITIONAL BMPS ONLY APPLY TO THOSE PORTIONS OF THE PROJECT THAT DRAIN TO ONE OF THE IDENTIFIED DISCHARGE POINTS.

8. IDENTIFY ADJACENT PUBLIC WATERS WHERE THE MINNESOTA DEPARTMENT OF NATURAL RESOURCES (DNR) HAS DECLARED "WORK IN WATER RESTRICTIONS" DURING FISH SPAWNING TIMEFRAMES

SELECTION OF A PERMANENT STORMWATER MANAGEMENT SYSTEM (SECTION 15)

1. WILL THE PROJECT CREATE A NEW CUMULATIVE IMPERVIOUS SURFACE GREATER THAN OR EQUAL TO ONE ACRE? NO

IF YES, A WATER QUALITY VOLUME OF ONE INCH OF RUNOFF FROM THE CUMULATIVE NEW IMPERVIOUS SURFACES MUST BE RETAINED ON SITE (SEE 16.7 OF THE PERMIT) THROUGH INFILTRATION UNLESS PROHIBITED DUE TO ONE OF THE REASONS IN ITEMS 16.4 THROUGH 16.21. IF INFILTRATION IS PROHIBITED IDENTIFY OTHER METHOD OF MEETING WATER QUALITY REQUIREMENTS (E.G., FILTRATION SYSTEM, WET SEDIMENTATION BASIN, REGIONAL PONDING OR EQUIVALENT METHOD

2. DESCRIBE WHICH METHOD WILL BE USED TO TREAT RUNOFF FROM THE NEW IMPERVIOUS SURFACES CREATED BY THE PROJECT

INCLUDE ALL CALCULATIONS AND DESIGN INFORMATION FOR THE METHOD SELECTED. SEE SECTION 23 OF THE PERMIT FOR SPECIFIC REQUIREMENTS ASSOCIATED WITH EACH METHOD.

N/A

3. IF IT IS NOT FEASIBLE TO MEET THE TREATMENT REQUIREMENT FOR THE WATER QUALITY VOLUME, DESCRIBE WHY. THIS CAN INCLUDE PROXIMITY TO BEDROCK OR ROAD PROJECTS WHERE THE LACK OF RIGHT OF WAY PRECLUDES THE INSTALLATION OF ANY PERMANENT STORMWATER MANAGEMENT PRACTICES. DESCRIBE WHAT OTHER TREATMENT, SUCH AS GRASS SWALES, SMALLER PONDS, OR GRIT CHAMBERS, WILL BE IMPLEMENTED TO TREAT RUNOFF PRIOR TO DISCHARGE TO SURFACE WATERS. (15.8)

4. FOR PROJECTS THAT DISCHARGE TO TROUT STREAMS, INCLUDING TRIBUTARIES TO TROUT STREAMS, IDENTIFY METHOD OF INCORPORATING TEMPERATURE CONTROLS INTO THE PERMANENT STORMWATER MANAGEMENT SYSTEM.

N/A

SOILS INFORMATION



CORDOVA-WEBSTER COMPLEX PERCENT SLOPES ESTHERVILLE SANDY LOAM, 2 TO 6 PERCENT SLOPES, ERODED EX ESSEXVILLE SANDY LOAM GLENCOE CLAY LOAM, 0 TO 1 PERCENT SLOPES HAMEL LOAM, 0 TO 2 PERCENT SLOPES KILKENNY-LESTER LOAMS, 2 TO 6 PERCENT SLOPES ESTER-KILKENNY LOAMS, 2 TO 6 PERCENT SLOPES, ERODED PERCENT SLOPES LESTER-KILKENNY COMPLEX. 6 TO 10 PERCENT SLOPES, MODERATELY ERODE LESTER-KILKENNY COMPLEX, 10 TO 16 PERCENT SLOPES, MODERATELY ERODE LESTER-KILKENNY COMPLEX, 16 TO 22 PERCENT SLOPES LE SUEUR-LESTER COMPLEX, 1 TO 6 PERCENT SLOPES LE SUEUR LOAM, 1 TO 3 PERCENT SLOPES KLOSSNER MUCK, 0 TO 1 PERCENT TERRIL LOAM, 2 TO 6 PERCENT SLOPES RASSET-LESTER-KILKENNY COMPLEX, 2 TO 6 PERCENT SLOPES RASSET-LESTER-KILKENNY COMPLEX, 6 TO 12 PERCENT SLOPES TO 18 PERCENT SLOPES RASSET-LESTER-KILKENNY COMPLEX, 18 TO 25 PERCENT SLOPES

MAP UNIT NAME

SYMBOL

EROSION PREVENTION PRACTICES (SECTION 8.1)

DESCRIBE THE TYPES OF TEMPORARY EROSION PREVENTION BMP'S EXPECTED TO BE IMPLEMENTED ON THIS SITE DURING CONSTRUCTION

1. DESCRIBE CONSTRUCTION PHASING, VEGETATIVE BUFFER STRIPS, HORIZONTAL SLOPE GRADING, AND OTHER CONSTRUCTION PRACTICES TO MINIMIZE EROSION. DELINEATE AREAS NOT TO BE DISTURBED (E.G., WITH FLAGS, STAKES, SIGNS, SILT FENCE, ETC.) BEFORE WORK BEGINS.

SILT FENCE WILL BE INSTALLED AT THE DOWNHILL LOCATIONS OF THE SITE. 2. DESCRIBE METHODS OF TEMPORARILY STABILIZING SOILS AND SOIL STOCKPILES (E.G., MULCHES, HYDRAULIC TACKIFIERS, EROSION BLANKETS, ETC.):

TEMPORARY EROSION PROTECTION WILL BE SEED AND MULCH AND EROSION BLANKETS WHERE REQUIRED, WITH PERMANENT COVER BEING EITHER SOD OR LANDSCAPE FEATURES 3. DESCRIBE METHODS OF DISSIPATING VELOCITY ALONG STORMWATER CONVEYANCE CHANNELS AND AT CHANNEL OUTLETS (E.G., CHECK DAMS, SEDIMENT TRAPS, RIP RAP, ETC.):

SOD WILL BE UTILIZED ALONG CHANNELS AND RIP RAP AT CHANNEL. 4. DESCRIBE METHODS TO BE USED FOR STABILIZATION OF DITCH AND SWALE WETTED PERIMETERS (NOTE THAT MULCH, HYDRAULIC SOIL TACKIFIERS, HYDROMULCHES, ETC. ARE NOT ACCEPTABLE

SOIL STABILIZATION METHODS FOR ANY PART OF A DRAINAGE DITCH OR SWALE)

FINAL STABILIZATION OF SWALES WILL BE SOD 5. DESCRIBE METHODS TO BE USED FOR ENERGY DISSIPATION AT PIPE OUTLETS (E.G., RIP RAP, SPLASH PADS, GABIONS, ETC.)

RIP RAP WILL BE UTILIZED AT PIPE OUTLETS 6. DESCRIBE METHODS TO BE USED TO PROMOTE INFILTRATION AND SEDIMENT REMOVAL ON THE SITE PRIOR TO OFFSITE DISCHARGE, UNLESS INFEASIBLE (E.G., DIRECT STORMWATER FLOW TO VEGETATED AREAS):

DISCONNECTED IMPERVIOUS AREA AND INFILTRATION AREAS WILL BE UTILIZED 7. FOR DRAINAGE OR DIVERSION DITCHES, DESCRIBE PRACTICES TO STABILIZE THE NORMAL WETTED PERIMETER WITHIN 200 LINEAL FEET OF THE PROPERTY EDGE OR POINT OF DISCHARGE TO SURFACE WATER. THE LAST 200 LINEAL FEET MUST BE STABILIZED WITHIN 24 HOURS AFTER CONNECTING TO SURFACE WATERS AND CONSTRUCTION IN THAT PORTION OF THE DITCH HAS TEMPORARILY OR PERMANENTLY CEASED FOR ALL DISCHARGES TO SPECIAL, IMPAIRED OR "WORK IN WATER RESTRICTIONS". ALL OTHER REMAINING PORTIONS OF THE TEMPORARY OR PERMANENT

DITCHES OR SWALES WITHIN 14 CALENDAR DAYS AFTER CONNECTING TO A SURFACE WATER, PROPERTY EDGE AND CONSTRUCTION IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED.

8. DESCRIBE ADDITIONAL EROSION PREVENTION MEASURES THAT WILL BE IMPLEMENTED AT THE SITE DURING CONSTRUCTION (E.G., CONSTRUCTION PHASING, MINIMIZING SOIL DISTURBANCE,

VEGETATIVE BUFFERS, HORIZONTAL SLOPE GRADING, SLOPE DRAINING/TERRACING, ETC.): OTHER EROSION CONTROL PRACTICES INCLUDE BUT ARE NOT LIMITED TO; MINIMIZING SITE EXPOSURE WHEN POSSIBLE.

9. IF APPLICABLE, INCLUDE ADDITIONAL REQUIREMENTS IN APPENDIX A PART C.3 REGARDING MAINTAINING A 100-FOOT BUFFER ZONE OR INSTALLING REDUNDANT BMPS FOR PORTIONS OF THE SITE THAT DRAIN TO SPECIAL WATERS).

10. IF APPLICABLE, DESCRIBE ADDITIONAL EROSION PREVENTION BMPS TO BE IMPLEMENTED AT THE SITE TO PROTECT PLANNED FILTRATION AREAS MINIMIZE SITE EXPOSURE IN AREAS ADJACENT TO FILTRATION AREAS.

SEDIMENT CONTROL PRACTICES (SECTION 9.1)

DESCRIBE THE METHODS OF SEDIMENT CONTROL BMPS TO BE IMPLEMENTED AT THIS SITE DURING CONSTRUCTION TO MINIMIZE SEDIMENT IMPACTS TO SURFACE WATERS, INCLUDING CURB AND **GUTTER SYSTEMS**

1. DESCRIBE METHODS TO BE USED FOR DOWN GRADIENT PERIMETER CONTROL: SILT FENCE WILL BE INSTALLED AROUND THE ENTIRE PERIMETER OF THE SITE

2. DESCRIBE METHODS TO BE USED TO CONTAIN SOIL STOCKPILES:

SEED AND MULCH AS WELL AS EROSION CONTROL BLANKETS WILL BE UTILIZED AS NECESSARY

3. DESCRIBE METHODS TO BE USED FOR STORM DRAIN INLET PROTECTION:

SEE INLET PROTECTION DETAILS

4. DESCRIBE METHODS TO MINIMIZE VEHICLE TRACKING AT CONSTRUCTION EXITS AND STREET SWEEPING ACTIVITIES: THE PROJECT WILL UTILIZE A ROCK CONSTRUCTION ENTRANCE.

5. DESCRIBE METHODS, IF APPLICABLE, ADDITIONAL SEDIMENT CONTROLS (E.G., DIVERSION BERMS) TO BE INSTALLED TO KEEP RUNOFF AWAY FROM PLANNED INFILTRATION AREAS WHEN EXCAVATED PRIOR TO FINAL STABILIZATION OF THE CONTRIBUTING DRAINAGE AREA:

SILT FENCE TO BE INSTALLED IMMEDIATELY AFTER GRADING TO PROTECT INFILTRATION AREAS.

6. DESCRIBE METHODS TO BE USED TO MINIMIZE SOIL COMPACTION AND PRESERVE TOP SOIL (UNLESS INFEASIBLE) AT THIS SITE:

LIGHT TRACKED EQUIPMENT WILL BE USED, TOPSOIL WILL BE STRIPPED AND STOCKPILED 7. DESCRIBE PLANS TO PRESERVE A 50-FOOT NATURAL BUFFER BETWEEN THE PROJECT'S SOIL DISTURBANCE AND A SURFACE WATER OR PLANS FOR REDUNDANT SEDIMENT CONTROLS IF A BUFFER

DOUBLE ROW OF SILT FENCE WILL BE INSTALLED ALONG WETLAND. PROJECT WILL NOT DISTURB WITHIN 200 FEET OF WETLAND

8. DESCRIBE PLANS FOR USE OF SEDIMENTATION TREATMENT CHEMICALS (E.G., POLYMERS, FLOCCULANTS, ETC.) SEE PART 9.18 OF THE PERMIT:

9. IS THE PROJECT REQUIRED TO INSTALL A TEMPORARY SEDIMENT BASIN DUE TO 10 OR MORE ACRES DRAINING TO A COMMON LOCATION OR 5 ACRES OR MORE IF THE SITE IS WITHIN 1 MILE OF A

SPECIAL OR IMPAIRED WATER?

IF YES, DESCRIBE (OR ATTACH PLANS) SHOWING HOW THE BASIN WILL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH SECTION 14.

DEWATERING AND BASIN DRAINING (SECTION 10.1)

1. WILL THE PROJECT INCLUDE DEWATERING OR BASIN DRAINING? NO

IF YES, DESCRIBE MEASURES TO BE USED TO TREAT/DISPOSE OF TURBID OR SEDIMENT-LADEN WATER AND METHOD TO PREVENT EROSION OR SCOUR OF DISCHARGE POINTS (SEE 10.2 THROUGH 10.4 OF THE PERMIT):

2. WILL THE PROJECT INCLUDE USE OF FILTERS FOR BACKWASH WATER? NO

IF YES, DESCRIBE HOW FILTER BACKWASH WATER WILL BE MANAGED ON THE SITE OR PROPERLY DISPOSED (10.5):

ADDITIONAL BMP'S FOR SPECIAL WATERS AND DISCHARGES TO WETLANDS (SECTION 23.1)

1. SPECIAL WATERS, DOES YOUR PROJECT DISCHARGE TO SPECIAL WATERS? NO 2. IF PROXIMITY TO BEDROCK OR ROAD PROJECTS WHERE THE LACK OF RIGHT OF WAY PRECLUDES THE INSTALLATION OF ANY OF THE PERMANENT STORMWATER MANAGEMENT PRACTICES THEN OTHER TREATMENT SUCH AS GRASSED SWALES, SMALLER PONDS, OR GRIT CHAMBERS IS REQUIRED PRIOR TO DISCHARGE TO SURFACE WATERS. DESCRIBE WHAT OTHER TREATMENT WILL BE PROVIDED.

3. DESCRIBE EROSION AND SEDIMENT CONTROLS FOR EXPOSED SOIL AREAS WITH A CONTINUOUS POSITIVE SLOPE TO A SPECIAL WATERS, AND TEMPORARY SEDIMENT BASINS FOR AREAS THAT DRAIN FIVE OR MORE ACRES DISTURBED AT ONE TIME.

4. DESCRIBE THE UNDISTURBED BUFFER ZONE TO BE USED (NOT LESS THAN 100 LINEAR FEET FROM THE SPECIAL WATER).

5. DESCRIBE HOW THE PERMANENT STORMWATER MANAGEMENT SYSTEM WILL ENSURE THAT THE PRE AND POST PROJECT RUNOFF RATE AND VOLUME FROM THE 1, AND 2-YEAR 24-HOUR PRECIPITATION EVENTS REMAINS THE SAME.

6. DESCRIBE HOW THE PERMANENT STORMWATER MANAGEMENT SYSTEM WILL MINIMIZE ANY INCREASE IN THE TEMPERATURE OF TROUT STREAM RECEIVING WATERS RESULTING IN THE 1. AND 2-YEAR 24-HOUR PRECIPITATION EVENTS.

7. WETLANDS. DOES YOUR PROJECT DISCHARGE STORMWATER WITH THE POTENTIAL FOR SIGNIFICANT ADVERSE IMPACTS TO A WETLAND (E.G., CONVERSION OF A NATURAL WETLAND TO A STORMWATER POND)? NO

IF YES, DESCRIBE THE WETLAND MITIGATION SEQUENCE THAT WILL BE FOLLOWED IN ACCORDANCE WITH SECTION 22 OF THE PERMIT

INSPECTIONS AND MAINTENANCE (SECTION 11.1)

DESCRIBE PROCEDURES TO ROUTINELY INSPECT THE CONSTRUCTION SITE:

 ONCE EVERY SEVEN (7) DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS, AND WITHIN (7) DAYS AFTER THAT

ALL BUILDING PRODUCTS WILL BE SEALED AND STORED IN A MANNER TO MINIMIZE EXPOSURE

INSPECTIONS MUST INCLUDE STABILIZED AREAS, EROSION PREVENTION, AND SEDIMENT CONTROL BMP'S AND INFILTRATION AREAS. INSPECTOR WILL FOLLOW REQUIREMENTS SPECIFIED ABOVE AND FILL OUT "ATTACHMENT B - CONSTRUCTION STORMWATER INSPECTION CHECKLIST" 1. DESCRIBE PRACTICES FOR STORAGE OF BUILDING PRODUCTS WITH A POTENTIAL TO LEACH POLLUTANTS TO MINIMIZE EXPOSURE TO STORMWATER:

2. DESCRIBE PRACTICES FOR STORAGE OF PESTICIDES, HERBICIDES, INSECTICIDES, FERTILIZERS, TREATMENT CHEMICAL, AND LANDSCAPE MATERIALS:

ALL LANDSCAPE TREATMENT CHEMICALS WILL BE SEALED AND STORED IN A MANNER TO MINIMIZED EXPOSURE 3. DESCRIBE PRACTICES FOR STORAGE AND DISPOSAL OF HAZARDOUS MATERIALS OR TOXIC WASTE (E.G., OIL, FUEL, HYDRAULIC FLUIDS, PAINT SOLVENTS, PETROLEUM-BASED PRODUCTS, WOOD PRESERVATIVE, ADDITIVES, CURING COMPOUNDS, AND ACIDS) ACCORDING TO MINN. R. CH. 7045, INCLUDING RESTRICTED ACCESS AND SECONDARY CONTAINMENT:

ALL HAZARDOUS WASTE WILL BE APPROPRIATELY DISPOSED OF OFF SITE ACCORDING TO LOCAL AND STATE LAWS. 4. DESCRIBE COLLECTION, STORAGE AND DISPOSAL OF SOLID WASTE IN COMPLIANCE WITH MINN. R. CH. 7035:

ALL CONSTRUCTION DEBRIS AND SOLID WASTER WILL BE APPROPRIATELY DISPOSED OF OFF SITE ACCORDING TO LOCAL AND STATE LAWS 5. DESCRIBE MANAGEMENT OF PORTABLE TOILETS TO PREVENT TIPPING AND DISPOSAL OF SANITARY WASTES IN ACCORDANCE WITH MINN. R. CH. 7040:

SANITARY AND SEPTIC SERVICES WILL BE PROVIDED TO WORKERS WITH PORTABLE FACILITIES MAINTAINED AS NEEDED BY THE PROVIDER. 6. DESCRIBE SPILL PREVENTION AND RESPONSE FOR FUELING AND EQUIPMENT OR VEHICLE MAINTENANCE:

EMPLOYEES WILL BE TRAINED IN TECHNIQUES DESIGNED TO MINIMIZE SPILLS. VEHICLES AND EQUIPMENT SHALL BE CHECKED FOR LEAKS. 7. DESCRIBE CONTAINMENT AND DISPOSAL OF VEHICLE AND EQUIPMENT WASH WATER AND PROHIBITING ENGINE DEGREASING ON THE SITE:

ALL CONSTRUCTION VEHICLES SHALL BE WASHED OFF SITE

8. DESCRIBE STORAGE AND DISPOSAL OF CONCRETE AND OTHER WASHOUT WASTES SO THAT WASTES DO NOT CONTACT THE GROUND: ALL CONCRETE WASHOUT SHALL OCCUR OFF SITE.

1. DESCRIBE METHOD OF FINAL STABILIZATION (PERMANENT COVER) OF ALL DISTURBED AREAS:

FINAL STABILIZATION WILL BE ACCOMPLISHED WITH PAVEMENT, SOD AND LANDSCAPE MATERIALS.

2. DESCRIBE METHODS USED TO CLEAN ALL STORMWATER TREATMENT SYSTEMS AND STORMWATER CONVEYANCE SYSTEMS OF ACCUMULATED SEDIMENT (25.22):

CLEANING OF STORMWATER TREATMENT SYSTEMS SHALL BE DONE BY HAND SUCH AS THE USE OF A SHOVEL.

3. DESCRIBE METHODS FOR REMOVING ALL TEMPORARY SYNTHETIC EROSION PREVENTION AND SEDIMENT CONTROL BMP'S: REMOVAL OF TEMPORARY SYNTHETIC EROSION PREVENTION AND SEDIMENT CONTROL BMP'S CAN BE DONE BY HAND AND PROPERLY DISPOSED OF.

GROU Golden Valley, MN 55422 ivilsitegroup.com

SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT LAM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF

MINNESOTA

David J. Knaeble DATE 4/4/2025 LICENSE NO. 48776

ISSUE/SUBMITTAL SUMMARY DATE DESCRIPTION 2/10/2025 WATERSHED SUBMITTAL 3/20/2025 WATERSHED RESUBMITTAL 4/4/2025 WATERSHED RESUBMITTAL

DRAWN BY:RB REVIEWED BY: DK PROJECT NUMBER: 22425

REVISION SUMMARY DATE DESCRIPTION

SWPPP - ATTACHMENTS

ATTACHMENT B: SWPPP INSPECTION FORM

NOTE: THIS INSPECTION REPORT DOES NOT ADDRESS ALL ASPECTS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM/STATE DISPOSAL SYSTEM (NPDES/SDS)
CONSTRUCTION STORMWATER PERMIT (PERMIT) ISSUED ON AUGUST 1, 2018. THE COMPLETION OF THIS CHECKLIST DOES NOT GUARANTEE THAT ALL PERMIT REQUIREMENTS
ARE IN COMPLIANCE: IT IS THE RESPONSIBILITY OF THE PERMITTEE(S) TO READ AND UNDERSTAND THE PERMIT REQUIREMENTS.

ACILITY	INFORMATION	

,	
SITE NAME:	
SITE ADDRESS:	

SITE ADDRESS: PERMIT NUMBER: CITY: STATE: ZIP CODE:

INSPECTION INFORMATION

INSPECTOR NAME: _____ PHONE NUMBER: _____ ORGANIZATION/COMPANY MAN: _____ TIME: ____ AM / PM

DATE (MM/DD/YYYY): _______TIME: ______AM / PM
IS THE INSPECTOR CERTIFIED IN SEDIMENT AND EROSION CONTROL AND IS IT DOCUMENTED IN THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP)?
IS THIS INSPECTION ROUTINE OR IN RESPONSE TO A STORM EVENT:
7 DAY RAIN

RAINFALL AMOUNT (IF APPLICABLE): ______ Y
IS SITE WITHIN ONE AERIAL MILE OF SPECIAL OR IMPAIRED WATER THAT CAN POTENTIALLY RECEIVE DISCHARGE FROM THE SITE?

IF YES, FOLLOW SECTION 23 AND OTHER APPLICABLE PERMIT REQUIREMENTS

NOTE: IF N/A IS SELECTED AT ANY TIME, SPECIFY WHY IN THE COMMENT AREA FOR THAT SECTION.

EDOCION CONTROL DECLUDEMENT (SECTION 9.4)

ER	OSION CONTROL REQUIREMENT (SECTION 8.1)			
		Υ	N	N/A
1.	ARE SOILS STABILIZED WHERE NO CONSTRUCTION ACTIVITY HAS OCCURRED FOR 14 DAYS (INCLUDING STOCKPILES)?			
	(7 DAYS WHERE APPLICABLE, OR 24 HOURS DURING MINNESOTA DEPARTMENT OF NATURAL RESOURCES [DNR] FISH			
	SPAWNING RESTRICTIONS)			
2.	HAS THE NEED TO DISTURB STEEP SLOPES BEEN MINIMIZED?			
3.	IF STEEP SLOPES ARE DISTURBED, ARE STABILIZATION PRACTICES DESIGNED FOR STEEP SLOPES USED?			
4.	ALL DITCHES/SWALES STABILIZED 200' BACK FROM POINT OF DISCHARGE OR PROPERTY EDGE WITHIN 24 HOURS? (MULCH,			
	HYDROMULCH, TACKIFIER, OR SIMILAR BEST MANAGEMENT PRACTICES [BMPS] ARE NOT ACCEPTABLE IN DITCHES/SWALES			
	IF THE SLOPE IS GREATER THAN 2%)ARE APPROPRIATE BMP'S INSTALLED PROTECTING INLETS/OUTLETS?			
5.	DO PIPE OUTLETS HAVE ENERGY DISSIPATION (WITHIN 24 HOURS OF CONNECTION)?			
6.	IS CONSTRUCTION PHASING BEING FOLLOWED IN ACCORDANCE WITH THE SWPPP?			
7.	ARE AREAS NOT TO BE DISTURBED MARKED OFF (FLAGS, SIGNS, ETC.)?			

COMMENTS:

SEDIMENT CONTROL REQUIREMENTS (SECTION 9.1)

	Υ	N	N/A
 ARE PERIMETER SEDIMENT CONTROLS INSTALLED PROPERLY ON ALL DOWN GRADIENT PERIMETERS? 			
2. ARE APPROPRIATE BMPS INSTALLED PROTECTING INLETS, CATCH BASINS, AND CULVERT INLETS?			
3. IS A 50 FOOT NATURAL BUFFER PRESERVED AROUND ALL SURFACE WATERS DURING CONSTRUCTION?			
3.1. IF NO, HAVE REDUNDANT SEDIMENT CONTROLS BEEN INSTALLED?			
4. DO ALL ERODIBLE STOCKPILES HAVE PERIMETER CONTROL IN PLACE?			
5. IS THERE A TEMPORARY SEDIMENT BASIN ON SITE, AND IS IT BUILT AS REQUIRED IN SECTION 14 OF THE PERMIT?			
6. IS SOIL COMPACTION BEING MINIMIZED WHERE NOT DESIGNED FOR COMPACTION?			
7. IS TOPSOIL BEING PRESERVED UNLESS INFEASIBLE?			
8. IF CHEMICAL FLOCCULANTS ARE USED, IS THERE A CHEMICAL FLOCCULANT PLAN IN PLACE?			

COMMENTS:

MAINTENANCE AND INSPECTIONS (SECTION 11)

		Y	N	N/A
1.	ARE ALL PREVIOUSLY STABILIZED AREAS MAINTAINING GROUND COVER?			
2.	ARE PERIMETER CONTROLS MAINTAINED AND FUNCTIONING PROPERLY, SEDIMENT REMOVED WHEN ONE-HALF FULL?			
3.	ARE INLET PROTECTION DEVICES MAINTAINED AND ADEQUATELY PROTECTING INLETS?			
4.	ARE THE TEMPORARY SEDIMENT BASINS BEING MAINTAINED AND FUNCTIONING PROPERLY?			
5.	ARE VEHICLE TRACKING BMPS AT SITE EXISTS IN PLACE AND MAINTAINED AND FUNCTIONING PROPERLY?			
6.	IS ALL TRACKED SEDIMENT BEING REMOVED WITHIN 24 HOURS?			
7.	HAVE ALL SURFACE WATERS, DITCHES, CONVEYANCES, AND DISCHARGE POINTS BEEN INSPECTED?			
8.	WERE ANY DISCHARGES SEEN DURING THIS INSPECTION (I.E., SEDIMENT, TURBID WATER, OR OTHERWISE)?			

IF YES, RECORD THE LOCATION OF ALL POINTS OF DISCHARGE. PHOTOGRAPH AND DESCRIBE THE DISCHARGE (SIZE, COLOR, ODOR, FOAM, OIL SHEEN, TIME, ETC.). DESCRIBE HOW THE DISCHARGE WILL BE ADDRESSED. WAS THE DISCHARGE A SEDIMENT DELTA? IF YES, WILL THE DELTA BE RECOVERED WITHIN SEVEN DAYS AND IN ACCORDANCE WITH ITEM 11.5 OF THE PERMIT?

COMMENTS:

POLLUTION PREVENTION (SECTION 12)

		Y	N	N/A
1.	ARE ALL CONSTRUCTION MATERIALS THAT CAN LEACH POLLUTANTS UNDER COVER OR PROTECTED?			
2.	ARE HAZARDOUS MATERIALS BEING PROPERLY STORED?			
3.	ARE APPROPRIATE BMPS BEING USED TO PREVENT DISCHARGES ASSOCIATED WITH FUELING AND MAINTENANCE OF			
	EQUIPMENT OR VEHICLES?			
4.	ARE ALL SOLID WASTES BEING PROPERLY CONTAINED AND DISPOSED OF?			
5.	IS THERE A CONCRETE/OTHER MATERIAL WASHOUT AREA ON SITE AND IS IT BEING USED?			
6.	IS THE CONCRETE WASHOUT AREA MARKED WITH A SIGN?			
7.	ARE THE CONCRETE/OTHER MATERIAL WASHOUT AREAS PROPERLY MAINTAINED?			

COMMENTS:

THER

- 1. IS A COPY OF THE SWPPP, INSPECTION RECORDS, AND TRAINING DOCUMENTATION LOCATED ON THE CONSTRUCTION
- SITE, OR CAN IT BE MADE AVAILABLE WITHIN 72 HOURS?
- . HAS THE SWPPP BEEN FOLLOWED AND IMPLEMENTED ON SITE, AND AMENDED AS NEEDED?
- IS ANY DEWATERING OCCURRING ON SITE?

 IF YES, WHAT BMPS ARE BEING USED TO ENSURE THAT CLEAN WATER IS LEAVING THE SITE AND THE DISCHARGE IS NOT CAUSING EROSION OR SCOUR?
- 4. WILL A PERMANENT STORMWATER MANAGEMENT SYSTEM BE CREATED FOR THIS PROJECT IF REQUIRED AND IN
- ACCORDANCE WITH SECTION 15 OF THE PERMIT (IF ADDING AN ACRE OR MORE OF NEW IMPERVIOUS SURFACE)?
- 5. IF INFILTRATION/FILTRATION SYSTEMS ARE BEING CONSTRUCTED, ARE THEY MARKED AND PROTECTED FROM
- COMPACTION AND SEDIMENTATION?

 6. DESCRIPTION OF AREAS OF NON-COMPLIANCE NOTED DURING THE INSPECTION, REQUIRED CORRECTIVE ACTIONS, AND RECOMMENDED DATE OF COMPLETION OF CORRECTIVE ACTIONS:
- 7. PROPOSED AMENDMENTS TO THE SWPPP:
- 8. POTENTIAL AREAS OF FUTURE CONCERN:
- 9. ADDITIONAL COMMENTS

IF YES, DESCRIBE:

DISCLOSURI

- AFTER DISCOVERY, THE PERMIT REQUIRES MANY OF THE DEFICIENCIES THAT MAY BE FOUND ON SITE BE CORRECTED WITHIN A SPECIFIED PERIOD OF TIME. SEE PERMIT FOR MORE DETAILS.
- THE PERMITTEE(S) IS/ARE RESPONSIBLE FOR THE INSPECTION AND MAINTENANCE OF TEMPORARY AND PERMANENT WATER QUALITY MANAGEMENT BMPS AS WELL AS EROSION PREVENTION AND SEDIMENT CONTROL BMPS UNTIL ANOTHER PERMITTEE HAS OBTAINED COVERAGE UNDER THIS PERMIT ACCORDING TO SECTION 3, OR THE PROJECT HAS MET THE TERMINATION CONDITIONS OF THE PERMIT AND A NOTICE OF TERMINATION HAS BEEN SUBMITTED TO THE MINNESOTA POLLUTION CONTROL AGENCY.

Civil Engineering · Surveying · Landscape Architecture

5000 Glenwood Avenue

Golden Valley, MN 55422

civilsitegroup.com

PRINTER CHOM

JSHIP, MN 55318

RAIN HOLDINGS

FINDE S, RICHFIELD, MN 55423

9790 LAKE

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

David J. Knaeble

David J. Knaeble

DATE 4/4/2025 LICENSE NO. 48776

ISSUE/SUBMITTAL SUMMARY

DATE DESCRIPTION

2/10/2025 WATERSHED SUBMITTAL

3/20/2025 WATERSHED RESUBMITTAL

4/4/2025 WATERSHED RESUBMITTAL

DRAWN BY:RB REVIEWED BY: DK

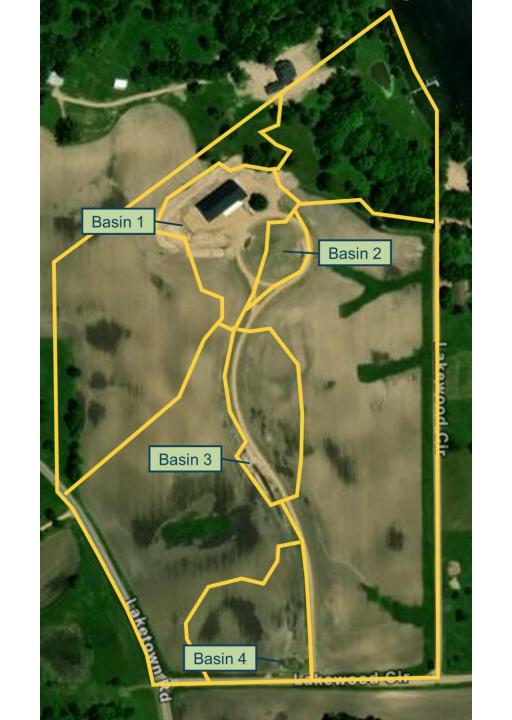
PROJECT NUMBER: 22425

REVISION SUMMARY

DATE DESCRIPTION

SWPPP - ATTACHMENTS

SW1.5





Information for MCWD board of managers hearing to be included in the board packet

From Michael Klingelhutz <mikeklingel@hotmail.com>

Date Mon 4/7/2025 10:56 AM

To Maggie Menden <mmenden@minnehahacreek.org>; James Wisker <JWisker@minnehahacreek.org>

4 attachments (680 KB)

FW: water run off; Re: Bullrush removal West of Pierson lake access a couple of years ago; Tele com marker marking open tile intake in wetland Terrain Holdings; RE: Sec. 160.20 MN Statutes tile drainage into township ditches.;

Hi Maggie,

I have enclosed E-mails from an abutting landowner and the area conservation officer regarding interactions with Terrain Holdings since they purchased the property.

They are an e-mail from Kurt Lano an abutting property owner to the East to Laketown Township, noting flooding of his property from the phase 1 driveway drainage

An e-mail from the area DNR conservation officer regarding the removal of all the bullrushes along the entire 700 feet of applicants lake frontage.

A picture of a telecom marker marking an open tile intake in a wetland that used to hold water for a couple of weeks but now drains in less than 24 hrs. (I have seen hundreds of open tile intake markers but never one disguised as a telecom marker.) it initially fooled the Laketown road staff.

A copy of the state statute regarding drain tile outlets to Township culverts. Two new drain tile outlets appeared at a township culvert from phase one driveway construction that were not in the plans.

While some of these interactions may not fall under MCWD jurisdiction they were integral to my asking for a board of managers review.

Regarding MCWD jurisdiction that compelled me to ask for a review by the board of managers.

Wetland buffers. The property is 60 acres. Accepting a house plan that needs to have a portion of the wetland buffer inside of the construction limits seems like an abdication of the preserve and protect part of MCWD's mission statement. Does the MCWD board of managers routinely allow construction limits right up to the open water within wetland buffer areas on large properties?

Stormwater management. The phase one driveway/shed construction and the continued phase two driveway/house construction clearly are part of a common development plan. The house portion should not be allowed to escape stormwater requirements as it is all one common project. I am glad that MCWD is now reviewing the plan under a common scheme of development.

I apologize for bringing this up so late but allowing this project to go through under redevelopment rules rather than new development rules seems lax.

The shack on the property was moved onto it to be used sleeping quarters for camping down by the lake. It did not have running water or a septic system. To my knowledge it did not have a certificate of occupancy from the county nor did it use up a building eligibility. Does any sort of structure allow for redevelopment rules rather than new development rules?

Lack of Laketown tree ordinance. Laketown is to be eventually annexed out of existence via a 1976 annexation agreement between Chaska, Victoria, Waconia and Laketown Township. Zoning rules for the portions going to Victoria and Waconia are administered by Carver County with no tree ordinance. Areas of Laketown Township within the boundaries of the MCWD watershed going to Victoria and Waconia are not protected by any tree ordinance. There are areas of old growth trees Maple/ Basswood/Oak such as were cut down for this project that deserve some consideration as valuable to the mission statement of the watershed.

Respectfully,

Mike Klingelhutz

6945 Abbywood lane Chaska (Laketown Township)

7940 Airport Road Waconia (Laketown Township)

phone 952-873-9695



FW: water run off

From Kurt Lano < KurtL@lanoequip.com>

Date Mon 7/22/2024 11:23 AM

mikeklingel@hotmail.com <mikeklingel@hotmail.com>



Kurt Lano

Vice President

KurtL@lanoequip.com Mobile: 612-282-8328 Phone: 952-658-7408 x 408 lanoequip.com

Lano Equipment, Inc. 3021 West 133rd Street Shakopee, MN 55379

CLICK HERE TO WATCH THE LANO STORY VIDEO











From: Kurt Lano

Sent: Monday, July 22, 2024 10:57 AM To: tionas@minnehahacreek.org

Subject: water run off

Hi Trev

My name is Kurt Lano, I own the land east of Terrian holdings which is the land being flood now by Terrian holding drain tiles.

The 60 plus acers of land that Terrian holding is draining on to my property.

When this property was farm field, the top of the hill the water naturally ran to Lake town road and under Lake town road to Retiz lake (which this carver county water shed), the grass wet land to the west off the new drive way is to drain to the west, 12 years ago the land owner tried to drain tile this to the east and your office shut them down (stating that they could not change the flow of water from one water shed to another). The wet land grass area in his field has a new 6" drain tile that is running down the hill to the east and is drian all the water on to my property (change the water district form caver county to Minnehaha creek water shed) Terrian holding has also add another drain tile (6") by his drive way with a French drain to take all the water from his new ponding and dump it on to my property, there is no more natural filtration of water throw grass water ways (it is all direct pipe to the east to the bottom of the hill and dumping the water on to my land and flooding me out)My property is to the east side of the public access road (lake wood circle) He has installed 2 new 6" drain tiles and 2 old drain tiles day light at the culvert in lake wood circle, I have owned this property for 20 years and never not been able to hav this property. I have video of the creek that Terrian holding has created by drain the wet land grass area west off his new drive way. Everything west of his new driveway should drain to the west to carver county water shed and not to Minnehaha water shed. Terrian has build his ponding to drain out in 48 hours (my question is why he installed 2 new 6" drain tiles to directly dump the water at the bottom of the hill on to my land and then these drain tiles never stop running (10 days after a rain event his tiles are still draining which never lets my property dry out now so I can cut and bale hay on it, keep in mind my property is on a hill so it self draining but with a new continuous flow of water coming out of the 2 new 6" drain tile, the 2 old 4" tile stop running after 2 days)

Thanks Kurt Lano Please call 612-282-8328



Re: Bullrush removal West of Pierson lake access a couple of years ago

From Birdsall, Alexander (DNR) <alexander.birdsall@state.mn.us>

Date Tue 3/25/2025 4:02 PM

To Michael Klingelhutz <mikeklingel@hotmail.com>

Hey Mike,

So the outcome of that investigation per my Aquatic Plant Manager for the area was to allow no further treatment outside of the normal, allowable beach area that is relative to total shoreline owned. Landowner is required to allow natural vegetation to return. If treatment is observed outside of the beach area then follow up enforcement action can be taken.

Alexander Birdsall

Conservation Officer | Enforcement-Waconia Station

Minnesota Department of Natural Resources

1200 Warner Rd St. Paul, MN 55106 Cell: 612-240-3948

Email: alexander.birdsall@state.mn.us









From: Michael Klingelhutz <mikeklingel@hotmail.com>

Sent: Tuesday, March 25, 2025 2:08 PM

To: Birdsall, Alexander (DNR) <alexander.birdsall@state.mn.us>

Subject: Bullrush removal West of Pierson lake access a couple of years ago

This message may be from an external email source.

Do not select links or open attachments unless verified. Report all suspicious emails to Minnesota IT Services Security Operations Center.

Hi Alex, I hope this finds you well

Kurt Zuppke told me he too had asked you to look into the herbicide application and subsequent removal of the dead bullrushes along the entire shoreline of this property (Terrain Holdings care of Alex Young). I know that Kurt and I encouraged you to get out there and investigate when it was happening. Did you ever generate a report and if so is it public record? Kurt passed away this last December, before he passed he insisted that I become the president of the lake association. At the last board meeting of the lake association the bullrush massacre was brought up again... specifically as to how it was resolved.

I was asked to inquire.

Any information that you can share would be appreciated.

Thank-you Respectfully

Mike Klingelhutz



RE: Sec. 160.20 MN Statutes tile drainage into township ditches.

From James Wisker < JWisker@minnehahacreek.org>

Date Thu 3/20/2025 10:21 AM

To Michael Klingelhutz <mikeklingel@hotmail.com>

Cc Maggie Menden <mmenden@minnehahacreek.org>

Thank you, Mike.

As you know, we are waiting to hear back on a few calls we have made regarding your questions with the proposed permit. I hope to have a response to you before the weekend, and would be happy to take a phone call from there.

I appreciate you forwarding this information from 2024 and will discuss with Maggie Menden.

James Wisker District Administrator

Minnehaha Creek Watershed District 15320 Minnetonka Blvd. Minnetonka, MN 55345

Office: 952-641-4509 Fax: 952-471-0682 www.minnehahacreek.org



From: Michael Klingelhutz <mikeklingel@hotmail.com>

Sent: Thursday, March 20, 2025 9:11 AM

To: James Wisker < JWisker@minnehahacreek.org>

Subject: Fw: Sec. 160.20 MN Statutes tile drainage into township ditches.

Hi James,

I sent this out last August because of two new drain tile from the Alex Young/terrain holdings property draining into a township culvert that was causing increased flow on downstream property. I do not believe these drain tile were part of the MCWD design for the driveway project. Completing work outside of the permit reflects poorly on the property owner and the oversight of the permit. There are other factors related to a deliberate misidentification (there are pictures) of a new open tile intake in a wetland on Terrain holdings property that were also part of the discussion. None of the water quality agencies seemed to give a hoot. Townships/road authorities do not like subterranean drainage to surface on the uphill side of culverts as it creates a greater potential for ice plugs in the culvert during winter freeze up.

Using a telecom marker to mark a new tile open intake in a wetland may indicate it was not properly permitted.

I am not sorry to hear that the MCWD employee who may have had jurisdiction in Laketown is no longer there.

With a new Terrain Holdings/Alex young project going through the MCWD permit process now it is prudent to carefully look at the plans and make sure the construction oversight is strong. respectfully

Mike Klingelhutz

From: Michael Klingelhutz

Sent: Friday, August 2, 2024 8:54 AM

To: Clerk Treasurer; Brian Lawrence; Kurt Lano; Maggie Menden; Tim Sundby; Paul Moline

Subject: Sec. 160.20 MN Statutes tile drainage into township ditches.

OOps This was inadvertently sent from my wife's email yesterday

Subject: Sec. 160.20 MN Statutes

I had an opportunity to speak with the Township Attorney regarding new drain tile drainage into a Township ditch on Lakewood circle. He referred me to this State Statute. See the following attachment. It looks like the Alex Young project permitted by MCWD should have included a permit from the Township for new tile drainage into the ditch far to the East through a different culvert and onto Kurt Lano's property.

As I recall, Laketown only gave a permit for the culvert for the new driveway not for the separate new subterranean tile drainage into a different culvert. Laketown has recently been made aware of this new subterranean drain tile by Kurt Lano, the downstream affected landowner. MCWD is in the process of convening a meeting between all parties. The requirements of the state statute need to be part of the discussion. Laketown was unaware of new subterranean tile drainage into the ditch far to the East as part of the driveway construction permit. After reading the statute it looks like Laketown should have had input on new tile drainage into the Township ditch into the township culvert and onto Kurt Lano's Property. The Lano property also has a Laketown 201 sewer easement affected by this drainage. Mike Klingelhutz

Laketown Township Supervisor

https://www.revisor.mn.gov/statutes/2023/cite/160.20#:~:text=When%20the%20course%20of%20natural,first%20obtain%20a%20written%20permit



Tele com marker marking open tile intake in wetland Terrain Holdings

From Michael Klingelhutz <mikeklingel@hotmail.com>

Date Thu 4/3/2025 12:22 PM

To Michael Klingelhutz <mikeklingel@hotmail.com>



Sent from my iPhone