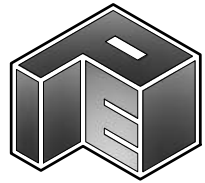
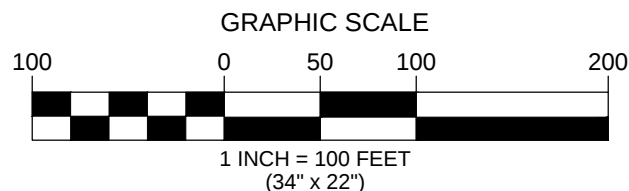


CLIFFS BOETTCHER ESTATES

TITLE SHEET, NOTES & LEGEND

LINWOOD TOWNSHIP, MINNESOTA



SITE PLANNING
& ENGINEERING
PLOWE
ENGINEERING, INC.

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

DRAWN BY: AG
CHECK BY: CWP

JOB NO: 22-2013
DATE: 03/01/22

NO.	DATE	DESCRIPTION
1	4/7/22	REVIEW COMMENTS #1
2	5/3/22	REVIEW COMMENTS #2
3		
4		
5		
6		
7		
8		

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

ADAM GINKEL
Date: 05.03.2022 License No. 43963

CLIFFS BOETTCHER ESTATES
LINWOOD TOWNSHIP
TITLE SHEET, NOTES & LEGEND
PREPARED FOR: SHERCO CONSTRUCTION

SHEET
T1

GENERAL NOTES

- THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF EXISTING UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION OF UTILITIES AS NECESSARY TO AVOID DAMAGE TO THESE UTILITIES.
- CALL "811" FOR EXISTING UTILITIES LOCATIONS PRIOR TO ANY EXCAVATIONS.
- THE CONTRACTOR SHALL FIELD VERIFY SIZE, ELEVATION, AND LOCATION OF EXISTING UTILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO THE START OF INSTALLATIONS.
- INSTALLATIONS SHALL CONFORM TO THE CITY STANDARD SPECIFICATIONS AND DETAIL PLATES (MOST CURRENT EDITION) AND MNDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION (MOST CURRENT EDITION).
- STORAGE OF MATERIALS OR EQUIPMENT SHALL NOT BE ALLOWED ON PUBLIC STREETS OR WITHIN PUBLIC RIGHT-OF-WAY.
- NOTIFY CITY A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- ALL ELECTRIC, TELEPHONE, AND GAS EXTENSIONS INCLUDING SERVICE LINES SHALL BE CONSTRUCTED TO THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS. ALL UTILITY DISCONNECTIONS SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY.

STORM SEWER NOTES

- PROPOSED STORM SEWER PIPE SHALL BE:
 - REINFORCED CONCRETE PIPE (RCP) WITH R-4 GASKETS
 - CORRUGATED METAL PIPE (CMP)
- FIELD VERIFY SIZE, ELEVATION, AND LOCATION OF EXISTING STORM SEWER AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO ANY INSTALLATIONS.
- STORM SEWER LENGTHS INCLUDE THE LAYING LENGTH OF THE FLARED-END SECTION. LAYING LENGTH OF APRON TO BE DEDUCTED FROM PAYMENT LENGTH OF PIPE.
- TRASH GUARDS ARE NOT REQUIRED FOR CULVERTS.
- RIP-RAP IS REQUIRED AT ALL PIPE DISCHARGE POINTS (EXCEPT IN TAURUS STREET RIGHT-OF-WAY.) RIP-RAP SHALL BE TYPE III WITH TYPE IV GEOTEXTILE FABRIC.

MISCELLANEOUS NOTES

- SEPTIC AND WELL DESIGN BY OTHERS.
- SITE TOPOGRAPHY PROVIDED BY OTHERS.

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

LEGEND

- | | |
|--|--------------------------------------|
| | DENOTES ELECTRICAL BOX |
| | DENOTES FIBER OPTIC BOX |
| | DENOTES SOIL BORING (BY OTHERS) |
| | DENOTES FLARED END SECTION |
| | DENOTES EXISTING STORM SEWER |
| | DENOTES OVERHEAD UTILITY |
| | DENOTES FENCE |
| | DENOTES WELL |
| | DENOTES PROPOSED STORM SEWER |
| | DENOTES PROPOSED FLARED-END SECTION |
| | DENOTES PROPOSED RIP-RAP |
| | DENOTES PROPOSED CATCH BASIN |
| | DENOTES CATCH BASIN INLET PROTECTION |

DEVELOPER

SHERCO CONSTRUCTION
79 LAKE ST
FOREST LAKE, MN
651-462-1817

OWNER

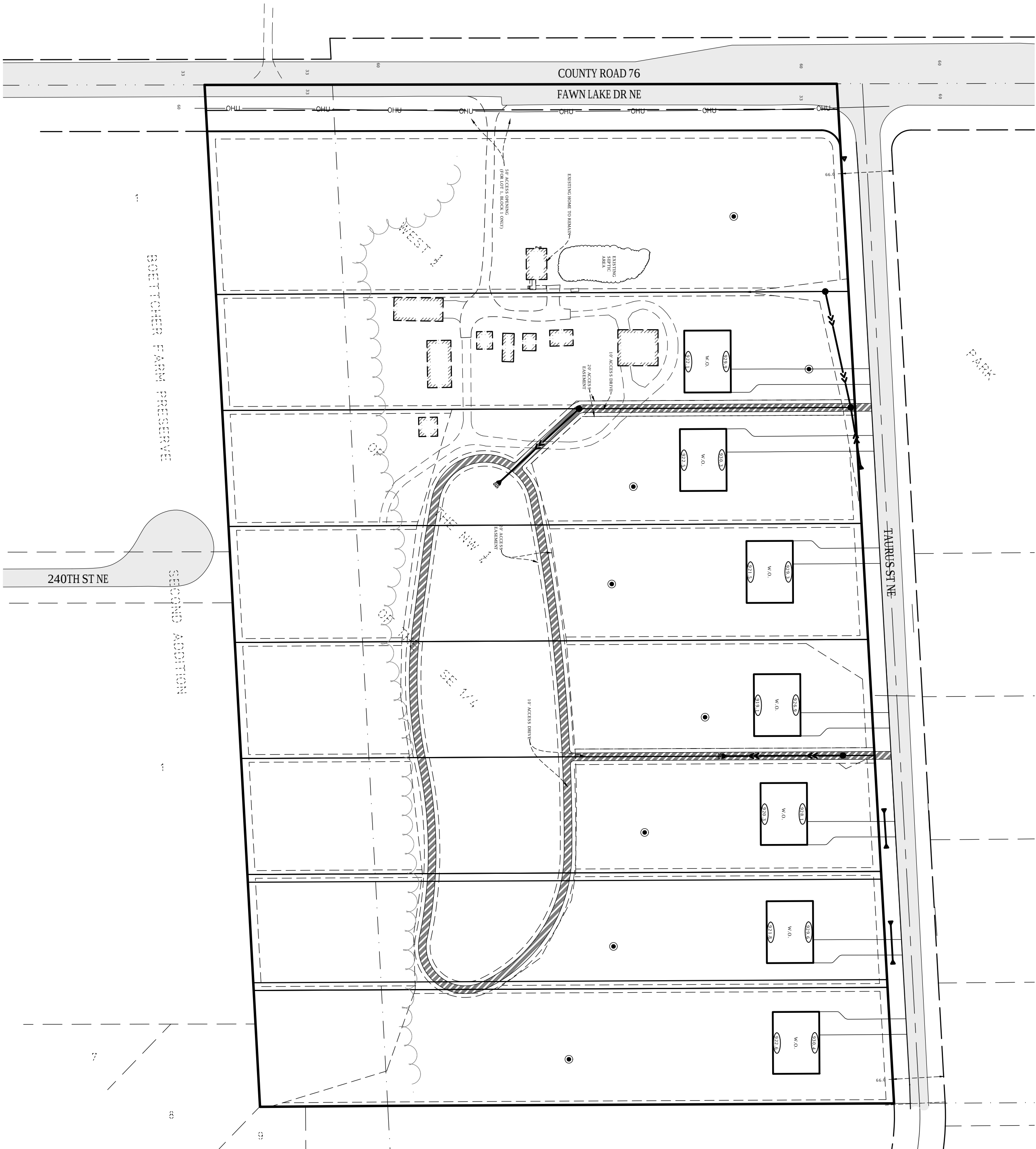
BOETTCHER TRUSTEE
6222 FAWN LAKE DR NE
STACY, MN 55079

VICINITY MAP



SHEET INDEX

T1	TITLE SHEET, NOTES & LEGEND
S1.1	EXISTING CONDITIONS / CERTIFICATE OF SURVEY
S1.2	PRELIMINARY PLAT
S1.3	GRADING, DRAINAGE & EROSION CONTROL PLAN
S1.4	DITCH CROSS SECTIONS
C1.1	UTILITY PLAN
C2.1	DETAILS
C3.1	STORMWATER POLLUTION PREVENTION PLAN (SWPPP)
C3.2	STORMWATER POLLUTION PREVENTION PLAN (SWPPP)



CERTIFICATE OF SURVEY

~for~ SHERCO CONSTRUCTION
~of~ CLIFFS BOETTCHER ESTATES

DEVELOPER

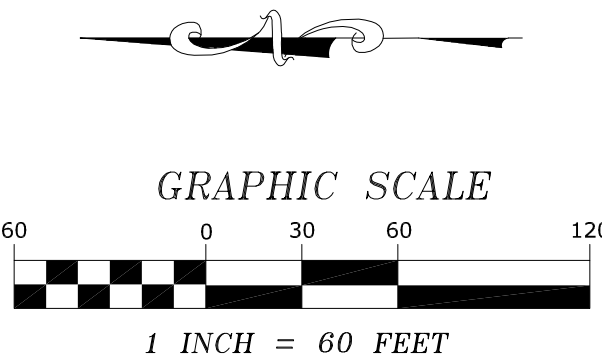
SHERCO CONSTRUCTION
79 LAKE STREET NORTH
FOREST LAKE, MN 55025

OWNER

BOETTCHER TRUSTEE
6222 FAWN LAKE DRIVE N.E.
STACY, MN 55079

LEGAL DESCRIPTION

The West Half of the Northwest Quarter of the Southeast Quarter of Section 29, Township 34, Range 22, Anoka County, Minnesota, together with the east 165 feet of the Northeast Quarter of the Southwest Quarter of said Section 29.



LEGEND

- DENOTES IRON MONUMENT FOUND AS LABELED
- DENOTES IRON MONUMENT SET, MARKED RLS# 41578
- DENOTES EXISTING SPOT ELEVATION
- DENOTES ELECTRICAL BOX
- DENOTES FIBER OPTIC BOX
- DENOTES SOIL BORING. (BY OTHERS)
- ▬ DENOTES FLARED END SECTION
- △ DENOTES TEST PIT LOCATION BY HAUGO GEOTECHNICAL
- ⬮ DENOTES RESTRICTED ACCESS
- ⋯ DENOTES CONTOURS DERIVED BY A COMBINATION OF LIDAR AND FIELD DATA
- ⋯ DENOTES TREE LINE
- ⋯ DENOTES EXISTING STORM SEWER
- ⋯ OHU DENOTES OVERHEAD UTILITY
- ▬ DENOTES BITUMINOUS SURFACE (UNLESS OTHERWISE NOTED)
- ▬ DENOTES GRAVEL SURFACE
- DENOTES ADJACENT PARCEL OWNER INFORMATION (PER ANOKA COUNTY TAX INFORMATION)

NOTES

- Field work was completed by E.G. Rud and Sons, Inc. on 12-13-21. Soil borings staked 11-05-2021.
- Fee ownership is vested in Boettcher Trustee Parcel ID Number: 29-34-22-42-0011
- Address of the surveyed premises: 6222 Fawn Lake Drive NE, Linwood, MN 55079
- Bearings shown are on Anoka County datum.
- Surveyed premises shown on this survey map is in Flood Zone X (Areas determined to be outside the 0.2% annual chance floodplain.), according to Flood Insurance Rate Map No. 27003C0113E Community No. 270005 Panel No. 0113 Suffix E by the Federal Emergency Management Agency, effective date December 16, 2015.



www.egrud.com

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

BENCHMARK

ANOKA COUNTY BENCHMARK: BETHEL MNDT
ELEVATION = 930.192
DATUM = NAVD 88

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

Jason E. Rud
Date: 05/03/2022 License No. 41578

DRAWN BY:	BCD	JOB NO:	211380PP	DATE:	03/02/2022
CHECK BY:	JER	FIELD CREW:	BH		
1	04/07/22	CITY COMMENTS			MMD
2					
3					
NO.	DATE	DESCRIPTION			BY

PRELIMINARY PLAT

~for~ SHERCO CONSTRUCTION
~of~ CLIFFS BOETTCHER ESTATES

DEVELOPER

SHERCO CONSTRUCTION
79 LAKE STREET NORTH
FOREST LAKE, MN 55025

OWNER

BOETTCHER TRUSTEE
6222 FAWN LAKE DRIVE N.E.
STACY, MN 55079

LEGEND

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- ▲ DENOTES EXISTING STORM SEWER
- ▲ DENOTES OVERHEAD UTILITY
- ▲ DENOTES BITUMINOUS SURFACE (UNLESS OTHERWISE NOTED)
- ▲ DENOTES GRAVEL SURFACE
- ▲ DENOTES 10' VMAR
- ▲ DENOTES ADJACENT PARCEL OWNER INFORMATION (PER ANOKA COUNTY TAX INFORMATION)

R-1 LOT REQUIREMENTS

MINIMUM LOT SIZE: 2.5 ACRES
MINIMUM ROAD FRONTAGE = 150 FEET
MINIMUM LOT WIDTH = 150 FEET
*20,000 SQ. FT. BUILDBLE AREA MINIMUM 1 FOOT ABOVE MOTTLED SOIL
*11,000 SQ. FT. 3 FEET ABOVE MOTTLED SOIL WITHIN ABOVE AREA AND WITHIN PROPOSED BUILDING SETBACKS.

R-1 BUILDING SETBACK REQUIREMENTS

COUNTY R/W ROAD = 40 FEET
FRONT = 40 FEET
REAR = 30 FEET
SIDE = 10 FEET
CORNER SIDE = 20 FEET
WETLAND = 50 FEET

DEVELOPMENT STANDARDS

TOTAL PROJECT AREA.....24.8 ACRES
TOTAL NUMBER OF PROPOSED LOTS.....8
NUMBER OF OUTLOTS.....0
NUMBER OF PARKS.....0
MIN LOT SIZE PROPOSED.....2.82 ACRES
AVERAGE LOT SIZE PROPOSED.....2.96 ACRES
PUBLIC RIGHT OF WAY.....1.13 ACRES

BUILDBLE AREA

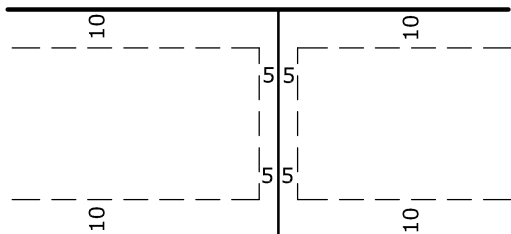
LOT NUMBER	SHADING WITHIN LOTS DEPICTS 3+ FEET ABOVE MOTTLED SOILS
BLOCK 1	
LOT 1	56,883 SQ. FT.
LOT 2	46,213 SQ. FT.
LOT 3	48,334 SQ. FT.
LOT 4	47,696 SQ. FT.
LOT 5	46,565 SQ. FT.
LOT 6	46,788 SQ. FT.
LOT 7	51,973 SQ. FT.
LOT 8	81,302 SQ. FT.



www.egrud.com

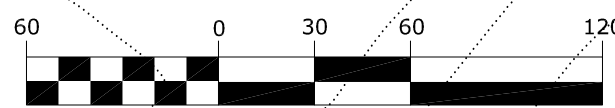
E. G. RUD & SONS, INC.
Professional Land Surveyors
6776 Lake Drive NE, Suite 110
Lino Lakes, MN 55014
Tel. (651) 361-8200 Fax (651) 361-8701

DRAINAGE AND UTILITY EASEMENTS ARE SHOWN THUS:



BEING 5 FEET IN WIDTH AND ADJOINING SIDE LOT LINES AND 10 FEET IN WIDTH AND ADJOINING RIGHT OF WAY LINES AND REAR LOT LINES, UNLESS OTHERWISE SHOWN ON THIS PLAT.

GRAPHIC SCALE



1 INCH = 60 FEET

LEGAL DESCRIPTION

The West Half of the Northwest Quarter of the Southeast Quarter of Section 29, Township 34, Range 22, Anoka County, Minnesota, together with the east 165 feet of the Northeast Quarter of the Southwest Quarter of said Section 29.

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

DATE: 05/03/2022 License No. 41578

DRAWN BY: BCD	JOB NO: 211380PP	DATE: 03/02/2022
CHECK BY: JER	FIELD CREW: BH	
1 04/07/22	CITY COMMENTS	MMD
2 05/03/22	CITY COMMENTS	MMD
3		
NO.	DATE	DESCRIPTION
		BY

SHEET S1.2

GRADING, DRAINAGE AND EROSION CONTROL PLAN

~for~ SHERCO CONSTRUCTION
~of~ CLIFFS BOETTCHER ESTATES

DEVELOPER

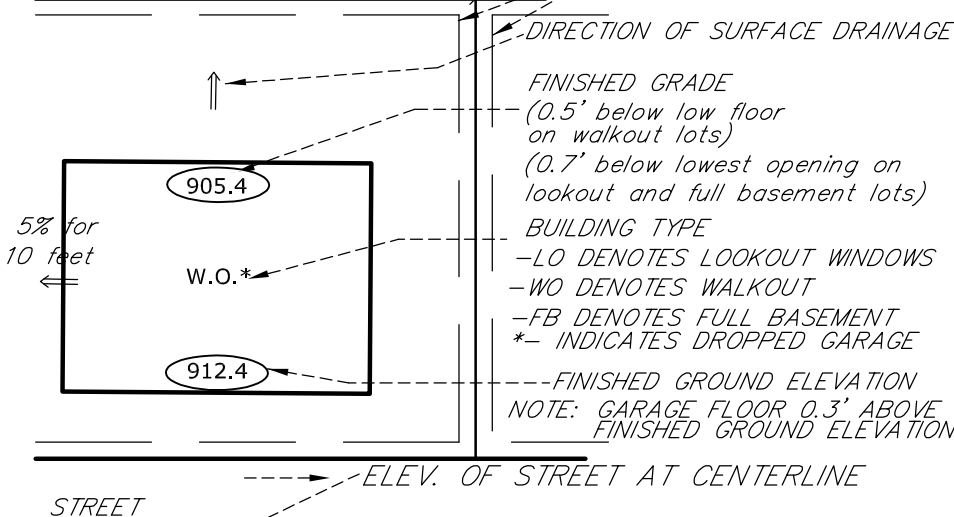
SHERCO CONSTRUCTION
79 LAKE STREET NORTH
FOREST LAKE, MN 55025

OWNER

BOETTCHER TRUSTEE
6222 FAWN LAKE DRIVE N.E.
STACY, MN 55079

TYPICAL LOT

TYP. DRAINAGE & UTILITY EASE.



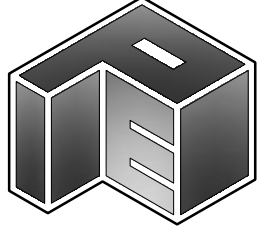
LEGEND

- DENOTES TEST PIT LOCATION BY HAUGO GEOTECHNICAL
- DENOTES SOIL BORING BY TRADEWELL SOIL TESTING
- DENOTES EXISTING SPOT ELEVATION
- DENOTES EXISTING 2 FOOT CONTOUR
- DENOTES PROPOSED 2 FOOT CONTOURS
- DENOTES EASEMENT LINE
- DENOTES SETBACK LINE
- DENOTES PROPOSED STORM SEWER
- DENOTES PROPOSED SILT / TREE PROTECTION FENCE
- DENOTES DIRECTION OF DRAINAGE
- DENOTES PROPOSED SPOT ELEVATION
- DENOTES RIPRAP
- DENOTES PROPOSED STORM SEWER INLET PROTECTION
- DENOTES 10' VMAR

EROSION CONTROL / REVEGETATION SPECS.

- PRIOR TO ROUGH GRADING, INSTALL SILT STOP FENCE IN LOCATIONS SHOWN. ADDITIONAL SILT STOP FENCE WILL BE REQUIRED WHERE LOCAL CONDITIONS REQUIRE. INSTALL TREE PROTECTION AS DEEMED NECESSARY PRIOR TO ANY GRADING.
- ANY GRADING SHALL PROCEED ON AN AREA BY AREA BASIS TO MINIMIZE UNCOMPLETED AREAS.
- AS EACH AREA OUTSIDE THE STREET IS GRADED, PROVIDE NATIVE TOPSOIL, SEED, AND MULCH ANCHORED WITH A STRAIGHT SET DISC WITHIN SEVEN DAYS AFTER ROUGH GRADING.
- MAINTAIN AND REPAIR SILT STOP FENCES (INCLUDING REMOVAL OF ACCUMULATED SILT) UNTIL VEGETATION IS ESTABLISHED.
- SEE "STORM WATER POLLUTION PREVENTION PLAN" FOR ADDITIONAL EROSION CONTROL NOTES AND SITE SEQUENCING.

PONDING CALCULATIONS
AND STORM SEWER DESIGN BY
PLOWE ENGINEERING, INC.



PLOWE
ENGINEERING, INC.

6776 LAKE DRIVE
SUITE 110
LINO LAKES, MN 55014

SITE PLANNING
& ENGINEERING

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

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

Adam Ginkel
ADAM GINKEL

DATE: 05.03.2022 LIC. NO. 43983



E. G. RUD & SONS, INC.

Professional Land Surveyors

6776 Lake Drive NE, Suite 110

Lino Lakes, MN 55014

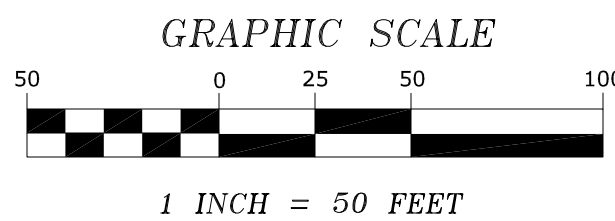
Tel. (651) 361-8200 Fax (651) 361-8701

www.egrud.com

C:\CAD\21 PROJ\211380PP\211380PP.DWG

NOTES

- 2 FOOT CONTOUR INTERVAL (NAVD 88)
- CONTOURS SHOWN ARE PER MNGEO LIDAR DISTRIBUTION AND FIELD VERIFICATION.
- TURF AREA TO BE SEEDDED WITHIN 7 DAYS AFTER COMPLETION OF ROUGH GRADING OR INACTIVITY.
- SEE UTILITY PLAN FOR STORM SEWER RIMS, INVERTS, AND SIZES.
- PROVIDE CLASS III RIPRAP WITH FILTER FABRIC WHERE INDICATED ON PLANS.
- Surveyed premises shown on this survey map is in Flood Zone X (Areas determined to be outside the 0.2% annual chance floodplain), according to Flood Insurance Rate Map No. 27003C0113E Community No. 270005 Panel No. 0113 Suffix E by the Federal Emergency Management Agency, effective date December 16, 2015.



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

JASON E. BUD

Date: 05/03/2022 License No. 41578

DRAWN BY:	BCD	JOB NO:	211380PP	DATE:	03/01/22
CHECK BY:	JER	FIELD CREW:	BH		
1	04/07/22	CITY COMMENTS			MMD
2	04/22/22	REMOVE LOT 1 HOUSE PAD			MMD
3	05/03/22	CITY COMMENTS			MMD
NO.	DATE	DESCRIPTION			BY

SHEET S1.3

DITCH CROSS SECTIONS

~for~ SHERCO CONSTRUCTION
~of~ CLIFFS BOETTCHER ESTATES

DEVELOPER

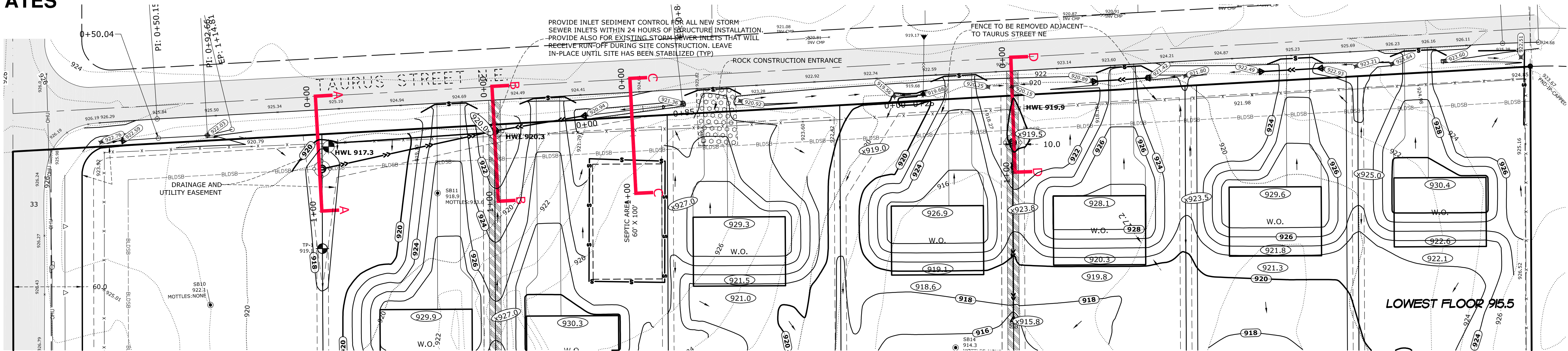
SHERCO CONSTRUCTION
79 LAKE STREET NORTH
FOREST LAKE, MN 55025

OWNER

BOETTCHER TRUSTEE
6222 FAWN LAKE DRIVE N.E.
STACY, MN 55079

LEGEND

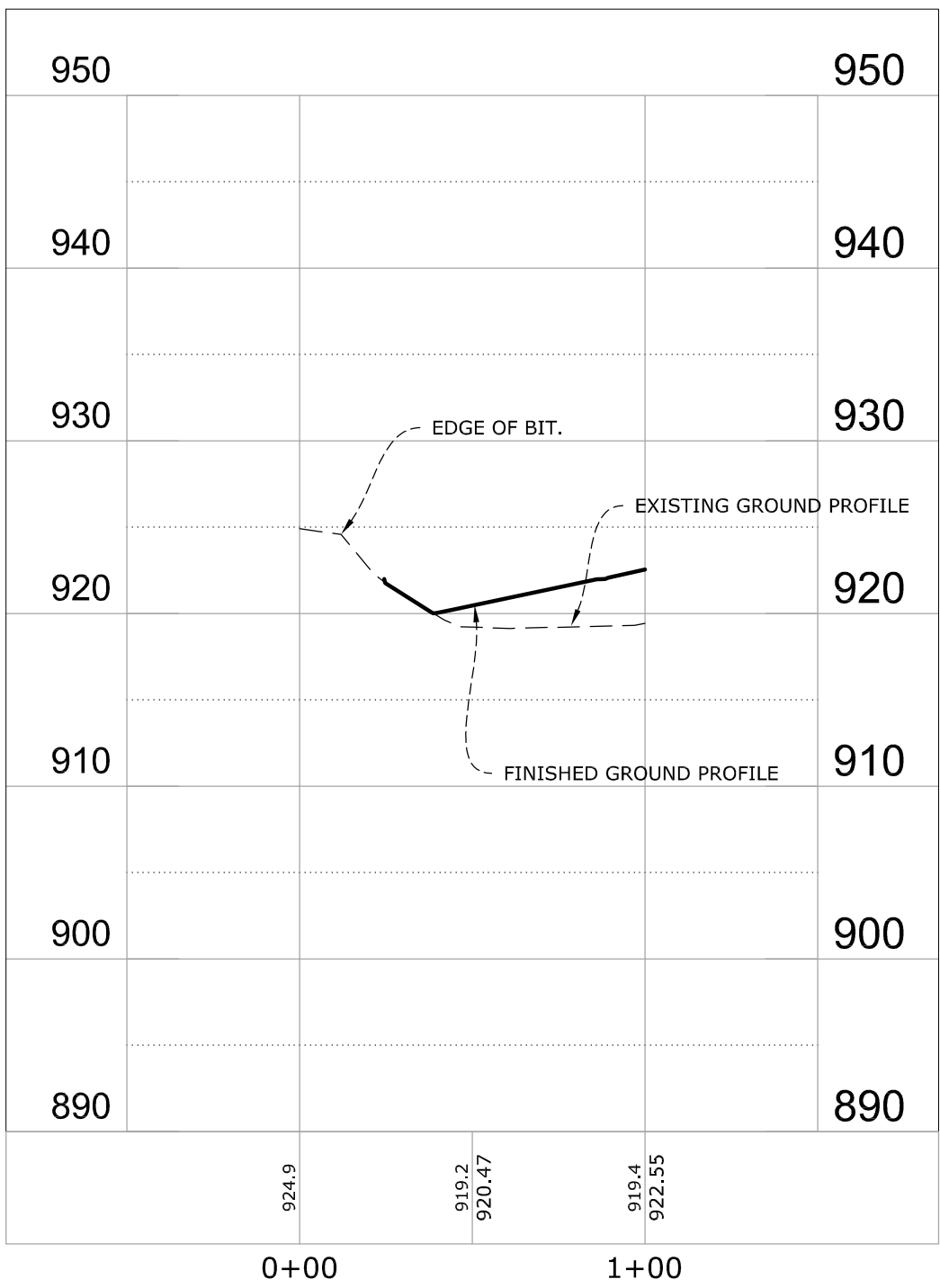
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- DENOTES SOIL BORING BY TRADEWELL SOIL TESTING
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- DENOTES DIRECTION OF DRAINAGE
- DENOTES PROPOSED SPOT ELEVATION
- DENOTES RIPRAP
- DENOTES PROPOSED STORM SEWER INLET PRETECTION



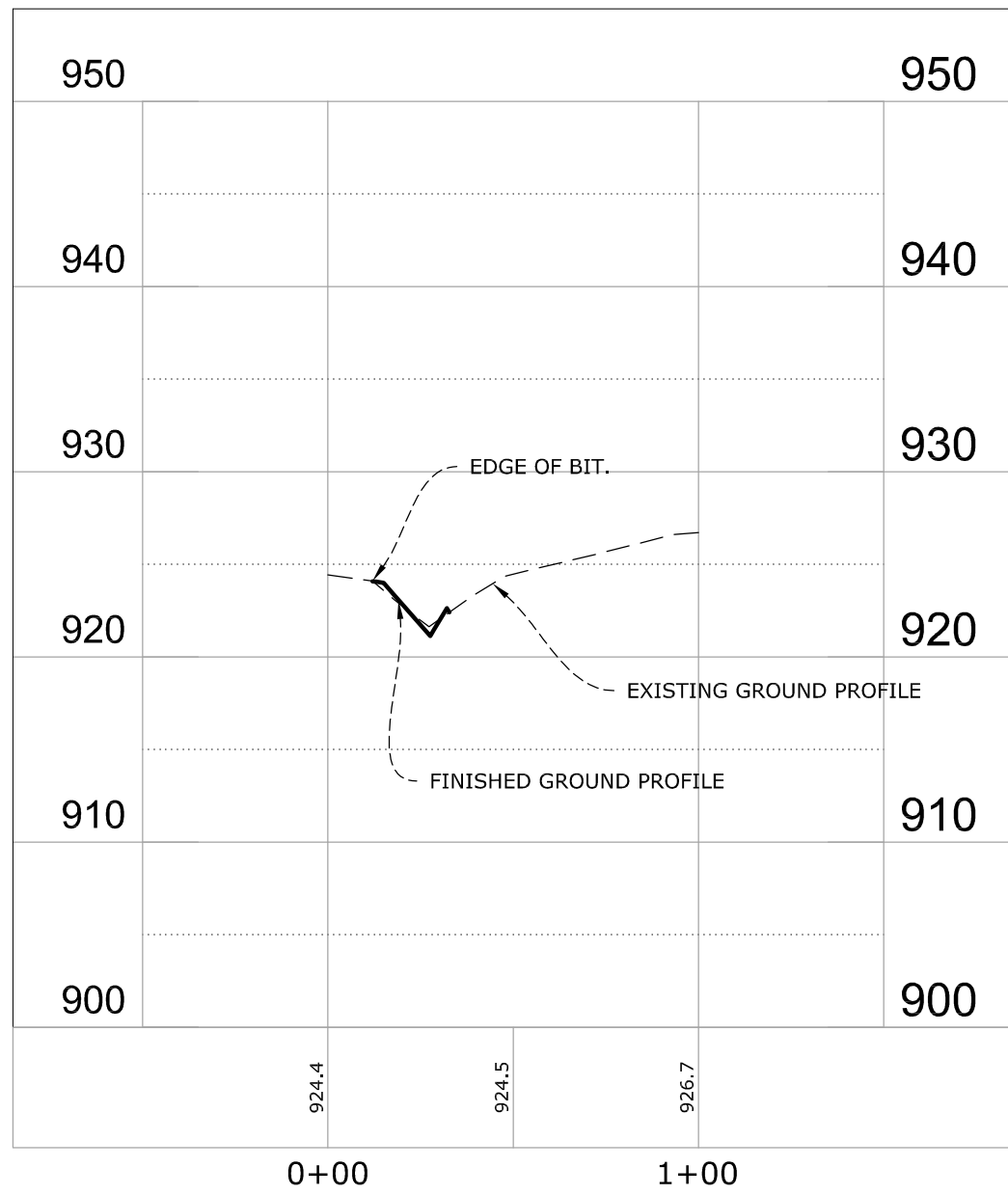
Cross Section A
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Horz. Scale: 1"=50'
Vert. Scale: 1"=10'



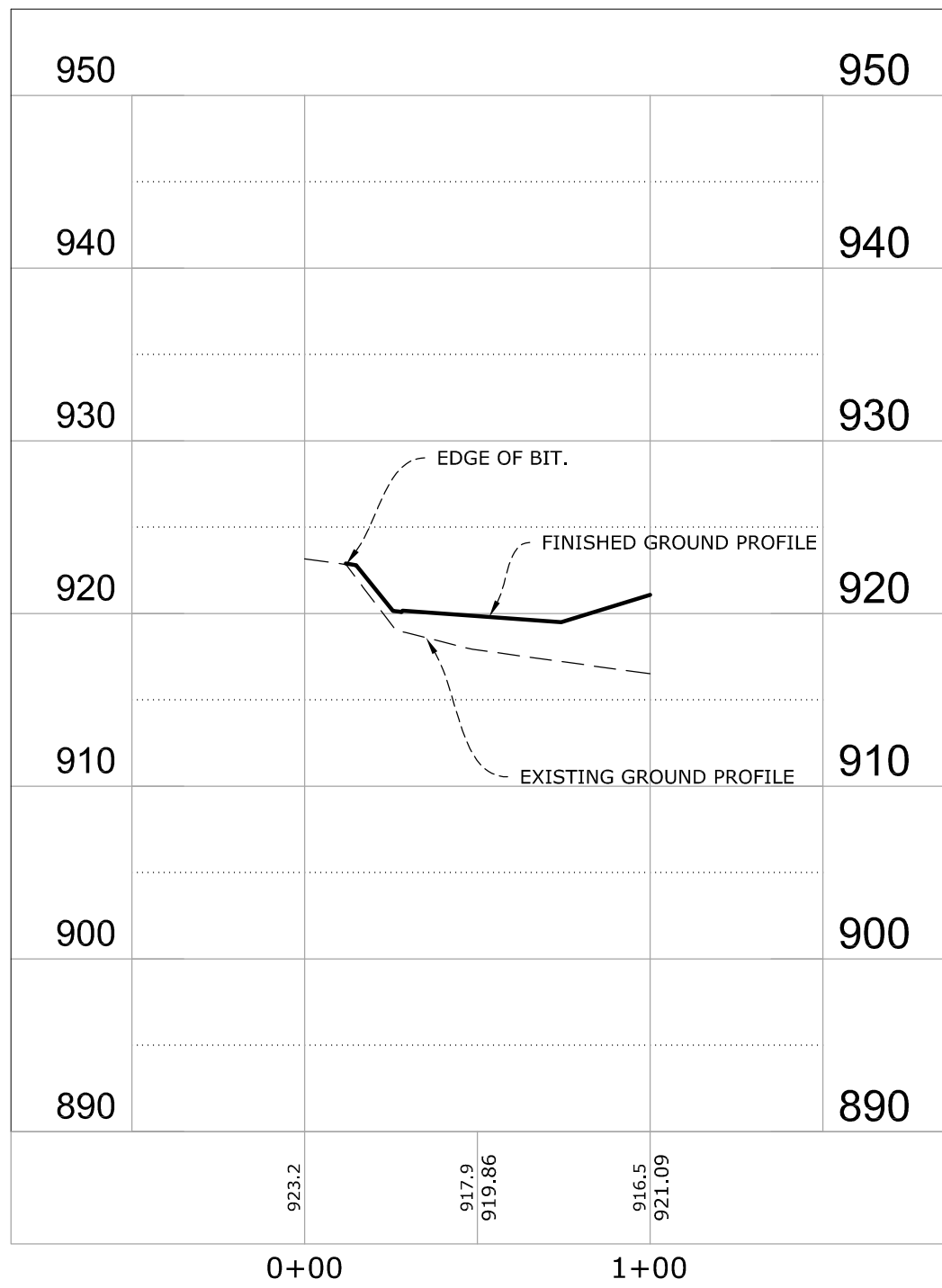
Cross Section B
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Horz. Scale: 1"=50'
Vert. Scale: 1"=10'



Cross Section C
-0+50 to 1+50.00
Horz. Scale: 1"=50'
Vert. Scale: 1"=10'



Cross Section D
-0+50 to 1+50.00
Horz. Scale: 1"=50'
Vert. Scale: 1"=10'



PONDING CALCULATIONS
AND STORM SEWER DESIGN BY
PLOWE ENGINEERING, INC.

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

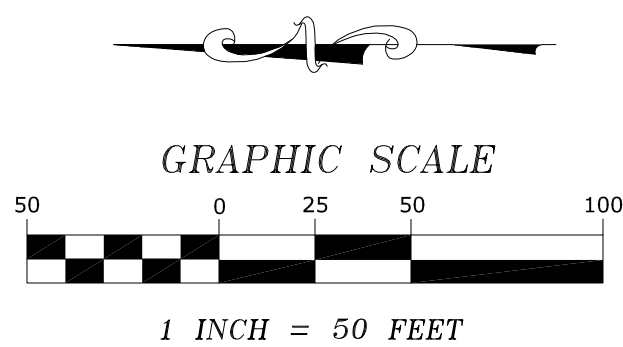
**SITE PLANNING
& ENGINEERING**

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

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

Adam Ginkel
ADAM GINKEL
DATE: 05.03.2022 LIC. NO. 43963

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



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

DATE: 05/03/2022 License No. 41578

DRAWN BY: BCD	JOB NO: 211380PP	DATE: 03/01/22
CHECK BY: JER	FIELD CREW: BH	
1 04/07/22	CITY COMMENTS	MMD
2 05/03/22	CITY COMMENTS	MMD
3		
NO.	DATE	DESCRIPTION
		BY

NPDES DEFINITIONS

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

"CONSTRUCTION ACTIVITY" MEANS ACTIVITIES INCLUDING CLEARING, GRADING, AND EXCAVATING, THAT RESULT IN LAND DISTURBANCE OF EQUAL TO OR GREATER THAN ONE ACRE, INCLUDING THE DISTURBANCE OF LESS THAN ONE ACRE OF TOTAL LAND AREA THAT IS PART OF A LARGER COMMON PLAN OF DEVELOPMENT OR SALE IF THE LARGER COMMON PLAN WILL ULTIMATELY DISTURB EQUAL TO OR GREATER THAN ONE ACRE. THIS INCLUDES A DISTURBANCE TO THE LAND THAT RESULTS IN A CHANGE IN THE TOPOGRAPHY, EXISTING SOIL COVER, BOTH VEGETATIVE AND NONVEGETATIVE, OR THE EXISTING SOIL TOPOGRAPHY THAT MAY RESULT IN ACCELERATED STORMWATER RUNOFF THAT MAY LEAD TO SOIL EROSION AND MOVEMENT OF SEDIMENT. CONSTRUCTION ACTIVITY DOES NOT INCLUDE A DISTURBANCE TO THE LAND OF LESS THAN FIVE ACRES FOR THE PURPOSE OF ROUTINE MAINTENANCE PERFORMED TO MAINTAIN THE ORIGINAL LINE AND GRADE, HYDRAULIC CAPACITY, AND ORIGINAL PURPOSE OF THE FACILITY. ROUTINE MAINTENANCE DOES NOT INCLUDE ACTIVITIES SUCH AS REPAIRS, REPLACEMENT AND OTHER TYPES OF NON-ROUTINE MAINTENANCE. PAVEMENT REHABILITATION THAT DOES NOT DISTURB THE UNDERLYING SOILS (E.G., MILL AND OVERLAY PROJECTS) IS NOT CONSTRUCTION ACTIVITY. [MINN. R. 7090]

"DEWATERING" MEANS THE REMOVAL OF SURFACE OR GROUND WATER TO DRY AND/OR SOLIDIFY A CONSTRUCTION SITE TO ENABLE CONSTRUCTION ACTIVITY. DEWATERING MAY REQUIRE A MINNESOTA DEPARTMENT OF NATURAL RESOURCES WATER APPROPRIATION PERMIT AND, IF DEWATERING WATER IS CONTAMINATED, DISCHARGE OF SUCH WATER MAY REQUIRE AN INDIVIDUAL MPCA NPDES/SDS PERMIT. [MINN. R. 7090]

"EROSION PREVENTION" MEANS MEASURES EMPLOYED TO PREVENT EROSION SUCH AS SOIL STABILIZATION PRACTICES, PERMANENT COVER OR CONSTRUCTION PHASING. [MINN. R. 7090]

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

"GROUNDWATER" MEANS THE WATER CONTAINED BELOW THE SURFACE OF THE EARTH IN THE SATURATED ZONE INCLUDING, WITHOUT LIMITATION, ALL WATERS WHETHER UNDER CONFINED, UNCONFINED, OR PERCHED CONDITIONS, IN NEAR SURFACE UNCONSOLIDATED SEDIMENT OR REGOLITH, OR IN ROCK FORMATIONS DEEPER UNDERGROUND. [MINN. R. 7090]

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

"INFEASIBLE" MEANS NOT TECHNOLOGICALLY POSSIBLE OR NOT ECONOMICALLY PRACTICABLE AND ACHIEVABLE IN LIGHT OF THE BEST INDUSTRY PRACTICES. [MINN. R. 7090]

"INITIATED IMMEDIATELY" MEANS TAKING AN ACTION TO COMMENCE SOIL STABILIZATION AS SOON AS PRACTICABLE, BUT NO LATER THAN THE END OF THE WORK DAY, FOLLOWING THE DAY WHEN THE LAND-DISTURBING ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE, IF THE PERMITTEES KNOW THAT CONSTRUCTION WORK ON THAT PORTION OF THE SITE WILL BE TEMPORARILY CEASED FOR 14 OR MORE ADDITIONAL CALENDAR DAYS OR 7 CALENDAR DAYS WHERE ITEM 23.9 APPLIES. PERMITTEES CAN INITIATE STABILIZATION BY:

- A. PREPPING THE SOIL FOR VEGETATIVE OR NON-VEGETATIVE STABILIZATION; OR
- B. APPLYING MULCH OR OTHER NON-VEGETATIVE PRODUCT TO THE EXPOSED SOIL AREA; OR
- C. SEEDING OR PLANTING THE EXPOSED AREA; OR
- D. STARTING ANY OF THE ACTIVITIES IN A - C ON A PORTION OF THE AREA TO BE STABILIZED, BUT NOT ON THE ENTIRE AREA; OR
- E. FINALIZING ARRANGEMENTS TO HAVE STABILIZATION PRODUCT FULLY INSTALLED IN COMPLIANCE WITH THE APPLICABLE DEADLINE FOR COMPLETING STABILIZATION. [MINN. R. 7090]

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

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

"NATURAL BUFFER" MEANS AN AREA OF UNDISTURBED COVER SURROUNDING SURFACE WATERS WITHIN WHICH CONSTRUCTION ACTIVITIES ARE RESTRICTED. NATURAL BUFFER INCLUDES THE VEGETATION, EXPOSED ROCK, OR BARREN GROUND THAT EXISTS PRIOR TO COMMENCEMENT OF EARTH-DISTURBING ACTIVITIES. [MINN. R. 7090]

"NOTICE OF TERMINATION (NOT)" MEANS THE FORM (ELECTRONIC OR PAPER) REQUIRED FOR TERMINATING COVERAGE UNDER THE CONSTRUCTION GENERAL PERMIT. [MINN. R. 7090]

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

"OWNER" MEANS THE PERSON, FIRM, GOVERNMENTAL AGENCY, OR OTHER ENTITY POSSESSING THE TITLE OF THE LAND ON WHICH THE CONSTRUCTION ACTIVITIES WILL OCCUR OR, IF THE CONSTRUCTION ACTIVITY IS FOR A LEASE, EASEMENT, OR MINERAL RIGHTS LICENSE HOLDER, THE PARTY OR INDIVIDUAL IDENTIFIED AS THE LEASE, EASEMENT OR MINERAL RIGHTS LICENSE HOLDER, OR THE CONTRACTING GOVERNMENT AGENCY RESPONSIBLE FOR THE CONSTRUCTION ACTIVITY. [MINN. R. 7090]

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

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

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

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

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

"STABILIZE", "STABILIZED", "STABILIZATION" MEANS THE EXPOSED GROUND SURFACE HAS BEEN COVERED BY APPROPRIATE MATERIALS SUCH AS MULCH, STAKED SOD, RIPRAP, EROSION CONTROL BLANKET, MATS OR OTHER MATERIAL THAT PREVENTS EROSION FROM OCCURRING. GRASS SEEDING, AGRICULTURAL CROP SEEDING OR OTHER SEEDING ALONE IS NOT STABILIZATION. MULCH MATERIALS MUST ACHIEVE APPROXIMATELY 90 PERCENT GROUND COVERAGE (TYPICALLY 2 TON/ACRE). [MINN. R. 7090]

"STORMWATER" MEANS PRECIPITATION RUNOFF, STORMWATER RUNOFF, SNOWMELT RUNOFF, AND ANY OTHER SURFACE RUNOFF AND DRAINAGE. [MINN. R. 7090]

"STEEP SLOPES" MEANS SLOPES THAT ARE 1:3 (V:H) (33.3 PERCENT) OR STEEPER IN GRADE. [MINN. R. 7090]

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

"SURFACE WATER OR WATERS" MEANS ALL STREAMS, LAKES, PONDS, MARSHES, WETLANDS, RESERVOIRS, SPRINGS, RIVERS, DRAINAGE SYSTEMS, WATERWAYS, WATERCOURSES, AND IRRIGATION SYSTEMS WHETHER NATURAL OR ARTIFICIAL, PUBLIC OR PRIVATE, EXCEPT THAT SURFACE WATERS DO NOT INCLUDE STORMWATER TREATMENT SYSTEMS CONSTRUCTED FROM UPLAND. THIS PERMIT DOES NOT CONSIDER STORMWATER TREATMENT SYSTEMS CONSTRUCTED IN WETLANDS AND MITIGATED IN ACCORDANCE WITH SECTION 22 AS SURFACE WATERS. [MINN. R. 7090]

"WATERS OF THE STATE" (AS DEFINED IN MINN. STAT. SECT. 115.01, SUBP. 22) MEANS ALL STREAMS, LAKES, PONDS, MARSHES, WATERCOURSES, WATERWAYS, WELLS, SPRINGS, RESERVOIRS, AQUIFERS, IRRIGATION SYSTEMS, DRAINAGE SYSTEMS AND ALL OTHER BODIES OR ACCUMULATIONS OF WATER, SURFACE OR UNDERGROUND, NATURAL OR ARTIFICIAL, PUBLIC OR PRIVATE, WHICH ARE CONTAINED WITHIN, FLOW THROUGH, OR BORDER UPON THE STATE OR ANY PORTION THEREOF. [MINN. STAT. 115.01, SUBP. 22]

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

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

- 1. A PREDOMINANCE OF HYDRIC SOILS; AND
- 2. INUNDATED OR SATURATED BY SURFACE WATER OR GROUNDWATER AT A FREQUENCY AND DURATION SUFFICIENT TO SUPPORT A PREVALENCE OF HYDROPHYTIC VEGETATION TYPICALLY ADAPTED FOR LIFE IN A SATURATED SOIL CONDITION; AND
- 3. UNDER NORMAL CIRCUMSTANCES SUPPORT A PREVALENCE OF SUCH VEGETATION. [MINN. R. 7050.0186, SUBP. 1A.B]

DOCUMENTATION OF TRAINED INDIVIDUALS

- A. INDIVIDUAL WHO PREPARED THE SWPPP:
- ADAM GINKEL
PLOWE ENGINEERING, INC.
6776 LAKE DRIVE
LINO LAKES MN 55014
(651) 361-8234
adam@plowe.com
- B. INDIVIDUAL(S) OVERSEEING IMPLEMENTATION OF, REVISING AND/OR AMENDING THE SWPPP AND INDIVIDUALS PERFORMING INSPECTIONS FOR THE PROJECT. ONE OF THESE INDIVIDUALS MUST BE AVAILABLE FOR AN ONSITE INSPECTION WITHIN 72 HOURS UPON REQUEST BY THE MPCA. [MINN. R. 7090]
- C. INDIVIDUAL(S) PERFORMING OR SUPERVISING THE INSTALLATION, MAINTENANCE AND REPAIR OF BMPs. [MINN. R. 7090]

CONTACT NAME: _____
CONTACT PHONE: _____
CONTACT E-MAIL: _____

CONTACT NAME: _____
CONTACT PHONE: _____
CONTACT E-MAIL: _____

LONG TERM OPERATION AND MAINTENANCE OF PERMANENT STORMWATER FACILITIES

THE PROPOSED STORMWATER MANAGEMENT FEATURES FOR THIS SITE INCLUDES INFILTRATION BASINS - THESE WILL BE OPERATED AND MAINTAINED BY LINWOOD TOWNSHIP.

REVEGETATION SPECIFICATIONS

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

- * MOW A MINIMUM OF:
RESIDENTIAL TURF - ONCE PER 2 WEEKS
COMMERCIAL TURF - ONCE PER 4 WEEKS
- ** SEEDED AREAS SHALL BE EITHER MULCHED OR COVERED BY FIBROUS BLANKETS TO PROTECT SEEDS AND LIMIT EROSION.

QUANTITIES - ESTIMATED QUANTITIES FOR EROSION AND SEDIMENT CONTROL MEASURES

TYPE	QTY	UNIT
SILT FENCE	4,569	LINEAR FEET
BIO-ROLLS	0	EACH
RIP-RAP W. GEO-FABRIC	10	CUBIC YARDS
CATCH BASIN INLET PROTECTION	2	EACH
STABILIZED (SODDED) OVERFLOW	0	EACH
EROSION CONTROL BLANKET	0	SQUARE YARDS
SEED & MULCH (GENERAL)	12.0	ACRE
ROCK CONSTRUCTION ENTRANCE	1	EACH

NARRATIVE - TIMING FOR INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES

- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND SWPPP MUST BE AVAILABLE ON THE PROJECT SITE AT ALL TIMES.
- CONTRACTOR SHALL INSTALL SILT FENCE AS SHOWN ON PLAN.
 - ADDITIONAL SILT FENCE MAY BE NECESSARY IF LOCAL CONDITIONS REQUIRE.
 - THE CONTRACTOR SHALL MAINTAIN SILT FENCE, INCLUDING THE REMOVAL OF ACCUMULATED SEDIMENT, UNTIL SITE HAS BEEN STABILIZED.
- CONTRACTOR SHALL INSTALL A ROCK CONSTRUCTION ENTRANCE AT ALL LOCATIONS WHERE CONSTRUCTION TRAFFIC WILL ENTER/EXIT SITE.
- CONTRACTOR TO INSTALL TREE PROTECTION FENCING AS APPLICABLE
- CONTRACTOR SHALL PERFORM SITE GRADING ON AN AREA-BY-AREA BASIS TO MINIMIZE UNSTABILIZED AREAS.
 - CONTRACTOR MUST IMMEDIATELY INITIATE STABILIZATION OF EXPOSED SOIL AREAS, AS DESCRIBED IN ITEM 8.4 OF THE PERMIT, AND COMPLETE THE STABILIZATION WITHIN SEVEN (7) CALENDAR DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE TEMPORARILY OR PERMANENTLY CEASES.
 - CONTRACTOR TO PROVIDE TEMPORARY SEDIMENTATION BASINS AS REQUIRED IN SECTION 14.1 THROUGH 14.10.
- CONTRACTOR TO SHALL PAY SPECIAL ATTENTION TO ADJACENT PROPERTY LINES TO ENSURE THE EROSION CONTROL PRACTICES INPLACE IN THOSE AREAS PREVENT MIGRATION OF SEDIMENT ONTO ADJACENT PROPERTIES.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS OR IMPLEMENTED IN THE FIELD SHALL BE IN ACCORDANCE WITH THE CITY AND NPDES PHASE II PERMIT REQUIREMENTS.
- CONTRACTOR TO PROVIDE ADDITIONAL SILT FENCE, BIOROLLS, EROSION CONTROL BLANKET, OR OTHER APPROVED EQUAL FOR ANY SLOPES THAT APPEAR TO BE FAILING
- CONTRACTOR TO STABILIZE SOIL STOCKPILES; STABILIZATION SHALL BE INITIATED IMMEDIATELY
- CONTRACTOR SHALL FINAL GRADE SWALE AREAS UPON STABILIZATION OF UPSTREAM AREAS.
- CONTRACTOR SHALL BE RESPONSIBLE TO SWEEP/SCRAPE ADJACENT STREETS WHEN MATERIALS OR DEBRIS HAVE WASHED/FLOWED ONTO ADJACENT STREETS OR AS DIRECTED BY CITY.
- COORDINATE SMALL UTILITIES INSTALLATIONS (GAS, PHONE, ELECTRIC, CABLE, FIBEROPTIC, ETC.) AFTER PAVEMENT INSTALLATION.

IMPAIRED LAKES: TYPO
ASSESSMENT UNIT: 30-0009-00
APPROVED TMDL PLAN FOR: NUTRIENTS
ADDITIONAL IMPAIRMENTS: NONE
NEW IMPAIRMENTS: NONE

IMPAIRED STREAMS: SUNRISE RIVER, WEST BRANCH
ASSESSMENT UNIT: 07030005-563
APPROVED TMDL PLAN FOR: TURBIDITY; PH
ADDITIONAL IMPAIRMENTS: NONE
NEW IMPAIRMENTS: NONE

IMPAIRED LAKES: MARTIN
ASSESSMENT UNIT: 02-0034-00
APPROVED TMDL PLAN FOR: MERCURY IN FISH TISSUE;
NUTRIENTS
ADDITIONAL IMPAIRMENTS: NONE
NEW IMPAIRMENTS: NONE

PROJECT NAME

CLIFFS BOETTCHER ESTATES

PROJECT LOCATION

6222 FAWN LAKE DR NE
WEST SIDE OF TAURIS ST NE AND SOUTH
OF FAWN LAKE RD NE (AKA CR 76)
LINWOOD TOWNSHIP, MN 55079
ANOKA COUNTY
LATITUDE: 45.4056
LONGITUDE: -93.1105

DEVELOPER

SHERCO CONSTRUCTION
79 LAKE ST N
FOREST LAKE, MN 55025

CONTACT NAME: THOMAS A. CARLISLE
CONTACT PHONE: 651-888-4137
CONTACT E-MAIL: Tom.Carlisle@shercohomebuilders.com

GENERAL CONTRACTOR

TBD

NARRATIVE - PERMANENT STORMWATER TREATMENT SYSTEMS

AN INFILTRATION BASIN IS PROPOSED TO HANDLE STORMWATER RUN-OFF. PRETREATMENT IS PROVIDED VIA OVERLAND OVERFLOW OVER PERVIOUS SURFACE. SEE "STORMWATER DRAINAGE REPORT" FOR FURTHER DISCUSSION AND INFORMATION.

SITE IMPERVIOUS AREAS

	BEFORE CONSTRUCTION	AFTER CONSTRUCTION
TOTAL SITE AREA	24.8± ACRES	
TOTAL ESTIMATED IMPERVIOUS	0.37 ACRES	1.12 ACRES
TOTAL ESTIMATED PERVIOUS	24.43 ACRES	23.68 ACRES

TOTAL DISTURBED AREA

13.8 ACRES

SITE MAP W/ EXISTING AND FINAL GRADES AND DESIGN CALCULATIONS

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

RECEIVING WATERS WITHIN ONE MILE

NAME OF WATER BODY	TYPE OF WATER BODY	SPECIAL WATER	IMPAIRED WATER
MARTIN LAKE	LAKE	NO	YES
TYPO LAKE	LAKE	NO	YES
SUNRISE RIVER	RIVER	NO	YES

BUFFER TO SURFACE WATER

☐ YES ☐ NO ☒ N/A IF THE SITE DRAINS TO A SURFACE WATER, IS A 50-FT NATURAL BUFFER ADJACENT TO THE SURFACE WATER PRESERVED?

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

A) THERE ARE NO SURFACE WATERS WITHIN PROJECT LIMITS.

TEMPORARY SEDIMENTATION BASINS

☒ YES ☐ NO ☐ N/A IF FIVE (5) OR MORE ACRES OF DISTURBED SOIL DRAIN TO A COMMON LOCATION, IS A TEMPORARY SEDIMENT BASIN PROVIDED FOR TREATMENT OF THE RUNOFF BEFORE IT LEAVES THE CONSTRUCTION SITE OR ENTERS SURFACE WATERS?

A) BECAUSE THIS PROJECT IS WITHIN ONE (1) MILE OF AN IMPAIRED WATER, THIS REQUIREMENT IS REDUCED FROM 10 ACRES TO 5 ACRES. THE CONTRACTOR WILL PROVIDE TEMPORARY SEDIMENTATION BASINS IF 5 OR MORE ACRES OF DISTURBED SOIL DRAIN TO A COMMON LOCATION.

INFILTRATION FEASIBILITY

☐ YES ☒ NO ☐ N/A ARE THERE ANY INFILTRATION RESTRICTIONS FOR THE SITE (SEE 16.14 THROUGH 16.21)?

A) THE SITE HAS HSG A SOILS AND A LOW WATER TABLE; INFILTRATION IS FEASIBLE.

ADDITIONAL STORMWATER MITIGATION MEASURES

☐ YES ☒ NO ARE THERE ANY STORMWATER MITIGATION MEASURES PER:

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

IF YES TO ANY OF THE ABOVE, DESCRIBE THE MITIGATION MEASURES. FOR PURPOSES OF THIS PERMIT, MITIGATION MEASURES MEANS ACTIONS NECESSARY TO AVOID, MINIMIZE, OR MITIGATE FOR IMPACTS RELATED TO EROSION PREVENTION, SEDIMENT CONTROL, THE PERMANENT STORMWATER TREATMENT SYSTEM, POLLUTION PREVENTION MANAGEMENT MEASURES AND DISCHARGES ASSOCIATED WITH THE PROJECT'S CONSTRUCTION ACTIVITY. [MINN. R. 7090]



SITE PLANNING
& ENGINEERING
PLOWE
ENGINEERING, INC.

6776 LAKE DRIVE
SUITE 110
LINO LAKES, MN 55014

PHONE: (651) 361-9210
FAX: (651) 361-8701

DRAWN BY: AG
CHECK BY: CWP

JOB NO: 22-2013
DATE: 03/01/22

NO.	DATE	DESCRIPTION
1	4/7/22	REVIEW COMMENTS #1
2	5/3/22	REVIEW COMMENTS #2
3		
4		
5		
6		
7		
8		

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

ADAM GINKEL
Date: 05.03.2022
License No. 43963

CLIFFS BOETTCHER ESTATES
LINWOOD TOWNSHIP
SWPPP
PREPARED FOR: SHERCO CONSTRUCTION

SHEET

C3.2