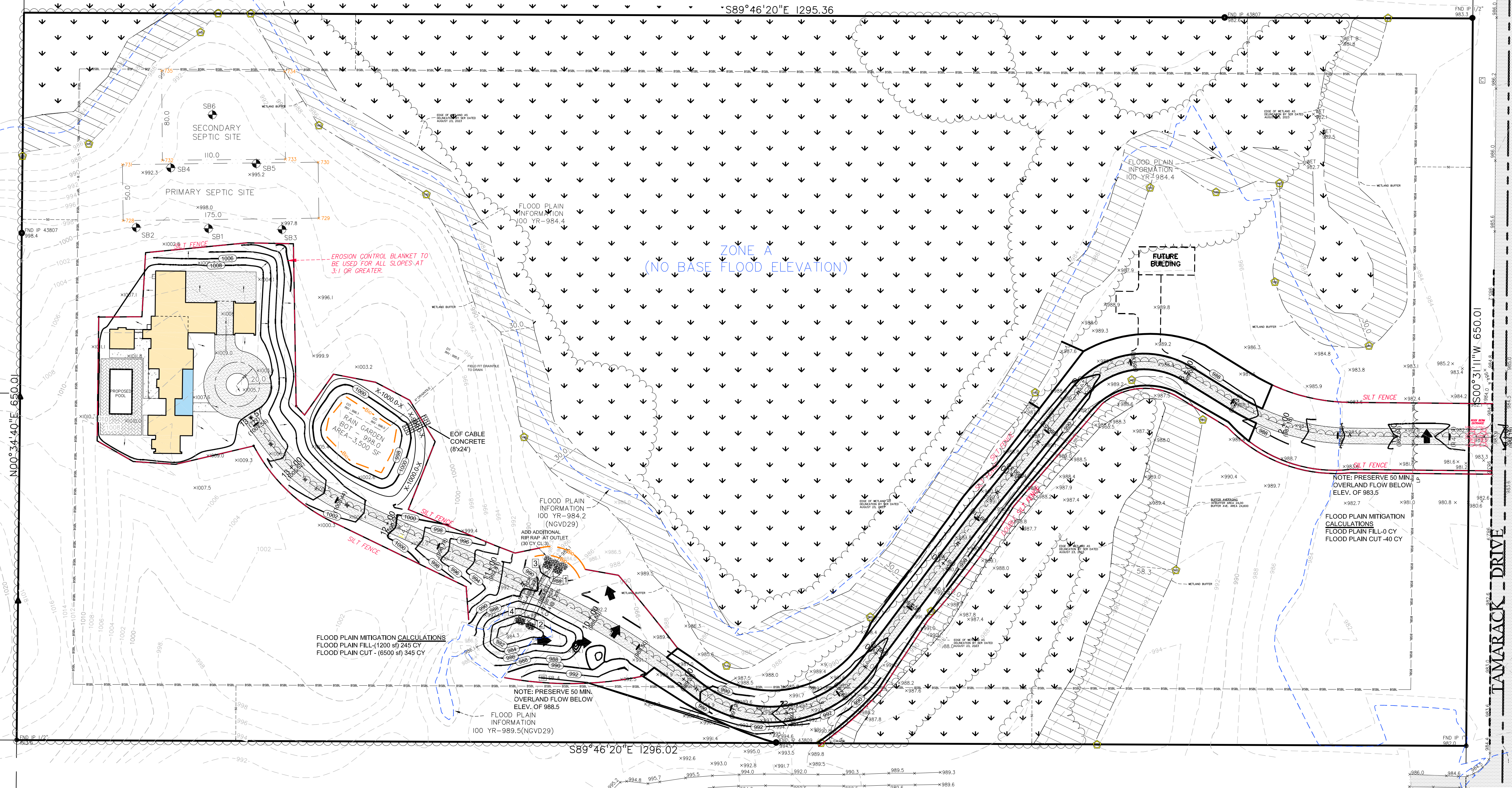
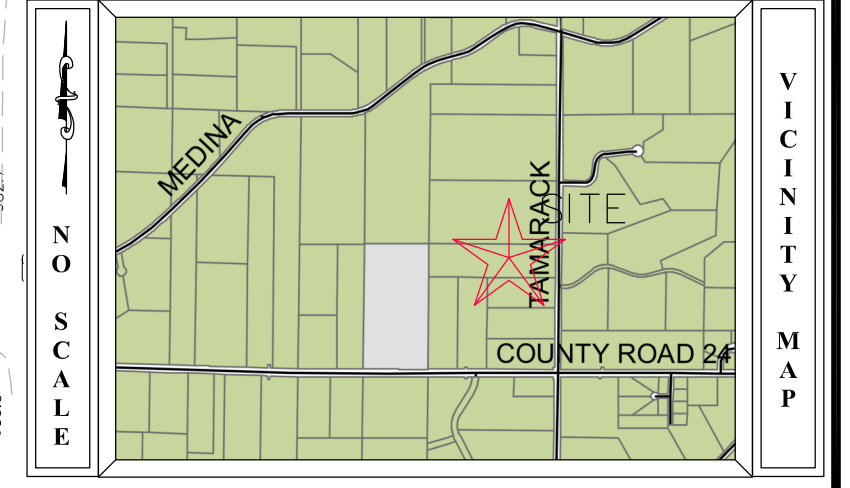
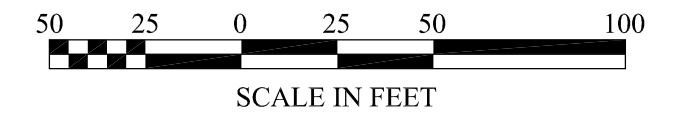


S89°46'20"E 1295.36



Bearings are based on the Hennepin County Coordinate System (NAD 83 - 1986 adj.)



DESCRIPTION OF PROPERTY SURVEYED

STANDARD NOTES

- Site Address:** 2295 Tamarack Drive, Medina, MN, 55356
- Flood Zone Information:** This property appears to lie in Zone X (area determined to be outside of the 0.2% annual chance floodplain) and Zone A (Areas subject to inundation by the 1-percent-annual-chance flood event determined by detailed methods. Base Flood Elevations (BFEs) are shown. Mandatory flood insurance purchase requirements and floodplain management standards apply.) per Flood Insurance Rate Map, Community Panel No. 27053C0168F, with an effective date of 11/04/2016.
- Parcel Area Information:** Gross Area: 842,200 s.f. ~ 19.33 acres  
Wet Area: 268,868 s.f. ~ 6.17 acres (Wetland area is approximate)  
Net Area: 573,332 s.f. ~ 13.16 acres  
\*We do not affirmatively insure the quantity of acreage set forth in the description
- Benchmark:** Elevations are based on MN/DOT Geodetic Station Name: ANN MN053 RESET which has an elevation of: 1039.34 feet (NGVD29). Contours were derived from a combination of field observations and LIDAR data from the Minnesota Department of Natural Resources.
- Zoning Information:** The current Zoning for the subject property is RR (Rural Residential) per the City of Medina's zoning map dated 7/5/2019. The setback, height, and floor space area restrictions for said zoning designation are as follows:  
**Principal Structure Setbacks -** Front: 50 feet (TAMARACK DRIVE)  
Side: 50 feet  
Rear: 50 feet  
Wetland Setback: 50 feet  
Height: 40 feet (See zoning code 826.7 for restrictions)  
Hardcover: 40 percent of lot area  
  
\*Please note that the zoning information shown hereon may have been amended through a city process. All setback information and hardcover data for planning and design must be verified by all parties involved in the design and planning process prior to any planning or construction.
- Utilities:** We have shown the location of utilities on the surveyed property by observed evidence only. There may be underground utilities encumbering the subject property we are unaware. Please note that we have not placed a Gopher State One Call for this survey. There may or may not be underground utilities in the mapped area, therefore extreme caution must be exercised before any excavation takes place on or near this site. Also, please note that seasonal conditions may inhibit our ability to visibly observe all the utilities located on the subject property. Before digging, you are required by law to notify Gopher State One Call at least 48 hours in advance at 651/454-0002.
- Wetland Delineation:** The wetland was delineated by Svoboda Ecological Services as LGU Project No. WF-23-190; 23341-000. The LGU decision was dated August 23, 2023. The wetland location was provided digitally by the client.

**Proposed Elevations**  
 Proposed Garage Floor Elevation = 1009.2  
 Proposed Top of Foundation Elevation = 1009.5  
 Proposed Basement Floor Elevation = 1009.0 (Lowest Opening)

**Proposed Hardcover**  
 Net Lot Area = 842,200 S.F.  
 House Area = 5,310 S.F.  
 Slope Area = 496 S.F.  
 Driveway Area = 31,560 S.F.  
 Front Walk Area = 146 S.F.  
 Pool Area = 800 S.F.  
 Pool Deck Area = 1,713 S.F.  
 Screen Pouch/Grill Area = 415 S.F.  
 Detached Garage Area = 549 S.F.  
 Total Area = 40,989 S.F.  
 Coverage = 4.9%

SURVEY LEGEND

- |   |   |  |
|---|---|--|
| <ul style="list-style-type: none"> <li>⊙ CAST IRON MONUMENT</li> <li>○ IRON PIPE MONUMENT SET</li> <li>● IRON PIPE MONUMENT FOUND</li> <li>⦿ DRILL HOLE FOUND</li> <li>⊗ CHISELED "X" MONUMENT SET</li> <li>⊗ CHISELED "X" MONUMENT FOUND</li> <li>⊕ REBAR MONUMENT FOUND</li> <li>△ PK NAIL MONUMENT SET</li> <li>▲ PK NAIL MONUMENT FOUND</li> <li>⊖ PK NAIL W/ ALUMINUM DISC</li> <li>⊙ SURVEY CONTROL POINT</li> <li>⊠ A/C UNIT</li> <li>⊕ CABLE TV PEDESTAL</li> <li>⊕ ELECTRIC TRANSFORMER</li> <li>⊕ ELECTRIC MANHOLE</li> <li>⊕ ELECTRIC METER</li> <li>⊕ ELECTRIC OUTLET</li> <li>⊕ YARD LIGHT</li> <li>⊕ LIGHT POLE</li> <li>⊕ FIBER OPTIC MANHOLE</li> <li>⊕ FIRE DEPT. HOOK UP</li> <li>⊕ FUEL POLE</li> <li>⊕ FUEL PUMP</li> <li>⊕ FUEL TANK</li> <li>⊕ PROPANE TANK</li> <li>⊕ GAS METER</li> <li>⊕ GAS VALVE</li> <li>⊕ GAS MANHOLE</li> <li>⊕ GENERATOR</li> <li>⊕ GUARD POST</li> <li>⊕ HAND HOLE</li> <li>⊕ MAIL BOX</li> </ul> | <ul style="list-style-type: none"> <li>⊕ PIEZOMETER</li> <li>⊕ POWER POLE</li> <li>⊕ GUY WIRE</li> <li>⊕ ROOF DRAIN</li> <li>⊕ LIFT STATION</li> <li>⊕ SANITARY MANHOLE</li> <li>⊕ SANITARY CLEANOUT</li> <li>⊕ STORM MANHOLE</li> <li>⊕ STORM DRAIN</li> <li>⊕ CATCH BASIN</li> <li>⊕ FLARED END SECTION</li> <li>⊕ TREE CONIFEROUS</li> <li>⊕ TREE DECIDUOUS</li> <li>⊕ TREE CONIFEROUS REMOVED</li> <li>⊕ TREE DECIDUOUS REMOVED</li> <li>⊕ TELEPHONE MANHOLE</li> <li>⊕ TELEPHONE PEDESTAL</li> <li>⊕ UTILITY MANHOLE</li> <li>⊕ UTILITY PEDESTAL</li> <li>⊕ UTILITY VAULT</li> <li>⊕ WATERMAIN MANHOLE</li> <li>⊕ WATER METER</li> <li>⊕ WATER SPIGOT</li> <li>⊕ WELL</li> <li>⊕ MONITORING WELL</li> <li>⊕ CURB STOP</li> <li>⊕ GATE VALVE</li> <li>⊕ HYDRANT</li> <li>⊕ IRRIGATION VALVE</li> <li>⊕ GUARD POST</li> <li>⊕ POST INDICATOR VALVE</li> <li>⊕ SIGN</li> <li>⊕ SOIL BORING</li> </ul> | <ul style="list-style-type: none"> <li>⊕ WOE WALKOUT ELEVATION</li> <li>⊕ FFE FIRST FLOOR ELEVATION</li> <li>⊕ GFE GARAGE FLOOR ELEVATION</li> <li>⊕ TOF TOP OF FOUNDATION ELEV.</li> <li>⊕ LOE LOWEST OPENING ELEV.</li> <li>— CONCRETE</li> <li>— BITUMINOUS</li> <li>— BUILDING SETBACK LINE</li> <li>— CABLE TV</li> <li>— CONCRETE CURB</li> <li>— CONTOUR EXISTING</li> <li>— CONTOUR PROPOSED</li> <li>— GUARD RAIL</li> <li>— DRAIN TILE</li> <li>— ELECTRIC UNDERGROUND</li> <li>— FIBER OPTIC UNDERGROUND</li> <li>— GAS UNDERGROUND</li> <li>— OVERHEAD UTILITY</li> <li>— TREE LINE</li> <li>— SANITARY SEWER</li> <li>— STORM SEWER</li> <li>— TELEPHONE UNDERGROUND</li> <li>— RETAINING WALL</li> <li>— UTILITY UNDERGROUND</li> <li>— WATERMAIN</li> <li>— TRAFFIC SIGNAL</li> <li>— RAILROAD TRACKS</li> <li>— RAILROAD SIGNAL</li> <li>— RAILROAD SWITCH</li> <li>— SATELLITE DISH</li> <li>— WETLAND BUFFER SIGN</li> </ul> |
|---|---|--|

FIELD CREW	NO.	BY	DATE	REVISION
DM,ABE	1	BRV	7/19/2024	REVISED HOUSE PLANS
DRAWN	2	DLS	8/8/2024	CITY COMMENTS
JRS	3	DLS	8/23/2024	MOVE DRIVEWAY OUT OF BUFFER
CHECKED	4	DLS	8/30/2024	MCWD COMMENTS
DLS				
DATE				
6/8/23				

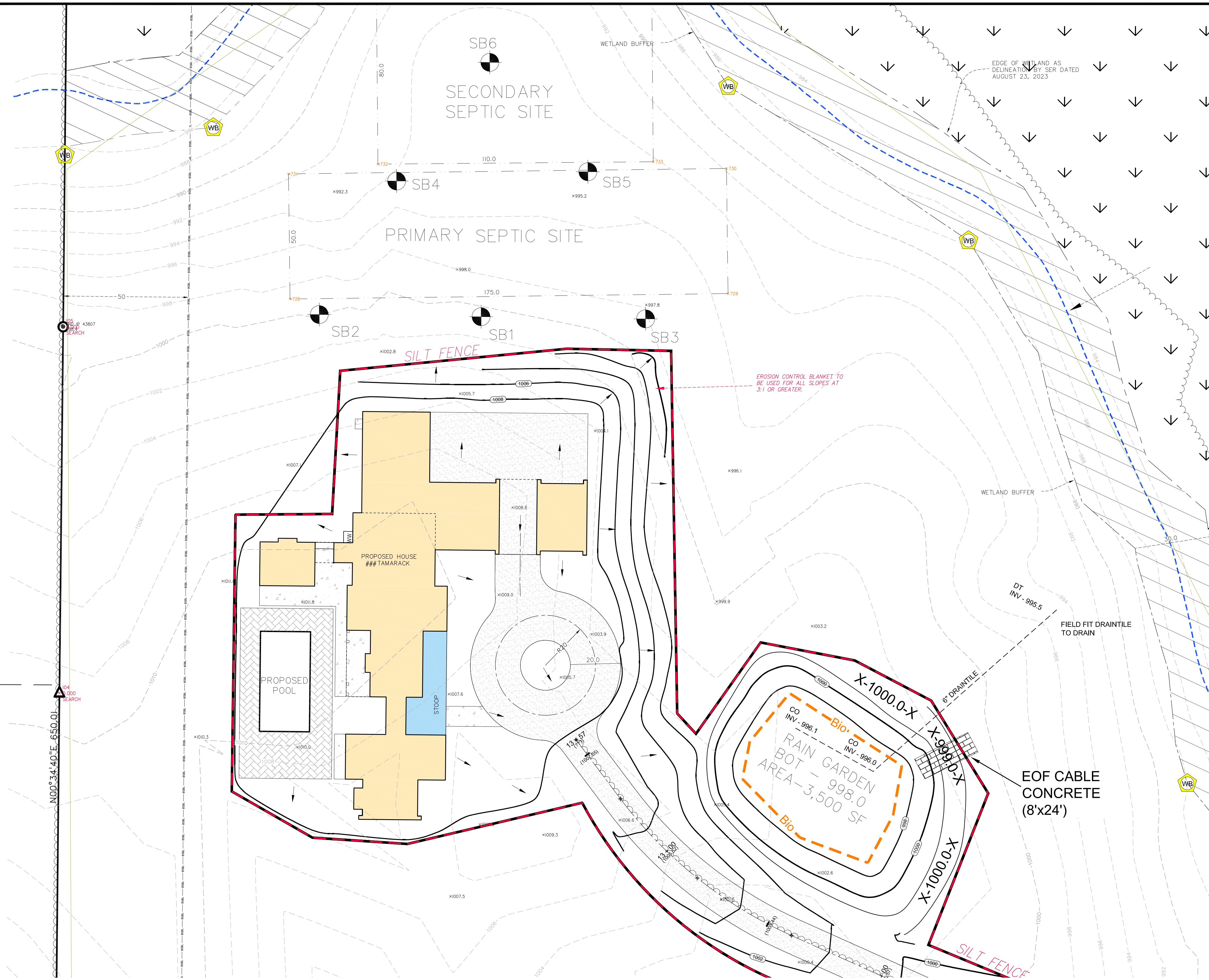
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I hereby certify that this survey, plan or report was prepared by me or under my direct supervision and that I am a duly Licensed Land Surveyor under the laws of the State of Minnesota.  
 Dated this 14th day of June, 2023.  
  
 Daniel L. Schmidt, PLS  
 schmidt@sathre.com  
 Minnesota License No. 26147

**SATHRE-BERGQUIST, INC.**  
 14000 25TH AVENUE NORTH, SUITE 120  
 PLYMOUTH MN 55447 (952) 476-6000  
 WWW.SATHRE.COM

TWP-118-RGE.23-SEC.23  
 Hennepin County  
**MEDINA, MINNESOTA**

**CERTIFICATE OF SURVEY**  
 PREPARED FOR:  
**SABY SINGH**  
 FILE NO.  
 95548-002  
**1**  
**3**

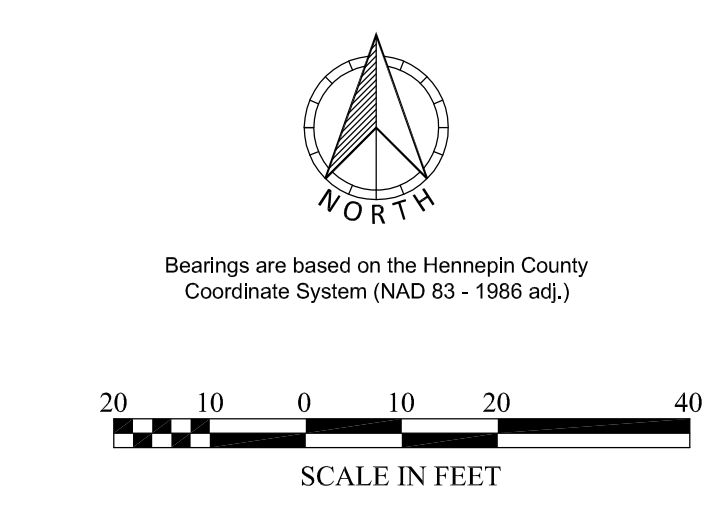


### SURVEY LEGEND

<ul style="list-style-type: none"> <li>● CAST IRON MONUMENT</li> <li>○ IRON PIPE MONUMENT SET</li> <li>● IRON PIPE MONUMENT FOUND</li> <li>⊗ DRILL HOLE FOUND</li> <li>⊗ CHISELED "X" MONUMENT SET</li> <li>⊗ REBAR MONUMENT FOUND</li> <li>⊗ PK NAIL MONUMENT SET</li> <li>▲ PK NAIL MONUMENT FOUND</li> <li>○ PK NAIL W/ ALUMINUM DISC</li> <li>△ SURVEY CONTROL POINT</li> <li>□ A/C UNIT</li> <li>□ CABLE TV PEDESTAL</li> <li>□ ELECTRIC TRANSFORMER</li> <li>⊗ ELECTRIC MANHOLE</li> <li>⊗ ELECTRIC METER</li> <li>⊗ ELECTRIC OUTLET</li> <li>⊗ LIGHT POLE</li> <li>⊗ UTILITY MANHOLE</li> <li>⊗ FIBER OPTIC MANHOLE</li> <li>⊗ FIRE DEPT. HOOK UP</li> <li>⊗ FLAG POLE</li> <li>⊗ FUEL PUMP</li> <li>⊗ FUEL TANK</li> <li>⊗ PROPANE TANK</li> <li>⊗ GAS METER</li> <li>⊗ GAS VALVE</li> <li>⊗ GAS MANHOLE</li> <li>⊗ GENERATOR</li> <li>⊗ GUARD POST</li> <li>⊗ HAND HOLE</li> <li>⊗ MAIL BOX</li> </ul>	<ul style="list-style-type: none"> <li>⊗ PIEZOMETER</li> <li>⊗ POWER POLE</li> <li>⊗ GUY WIRE</li> <li>⊗ ROOF DRAIN</li> <li>⊗ LIFT STATION</li> <li>⊗ SANITARY MANHOLE</li> <li>⊗ SANITARY CLEANOUT</li> <li>⊗ STORM MANHOLE</li> <li>⊗ STORM DRAIN</li> <li>⊗ CATCH BASIN</li> <li>⊗ FLARED END SECTION</li> <li>⊗ TREE CONIFEROUS</li> <li>⊗ TREE DECIDUOUS</li> <li>⊗ TREE CONIFEROUS REMOVED</li> <li>⊗ TREE DECIDUOUS REMOVED</li> <li>⊗ TELEPHONE MANHOLE</li> <li>⊗ TELEPHONE PEDESTAL</li> <li>⊗ UTILITY MANHOLE</li> <li>⊗ UTILITY PEDESTAL</li> <li>⊗ UTILITY VAULT</li> <li>⊗ WATERMAIN MANHOLE</li> <li>⊗ WATER METER</li> <li>⊗ WATER SPIGOT</li> <li>⊗ WELL</li> <li>⊗ MONITORING WELL</li> <li>⊗ CURB STOP</li> <li>⊗ GATE VALVE</li> <li>⊗ HYDRANT</li> <li>⊗ IRRIGATION VALVE</li> <li>⊗ POST INDICATOR VALVE</li> <li>⊗ SIGN</li> <li>⊗ SOIL BORING</li> </ul>	<ul style="list-style-type: none"> <li>WOE WALKOUT ELEVATION</li> <li>FFE FIRST FLOOR ELEVATION</li> <li>GFE GARAGE FLOOR ELEVATION</li> <li>TOF TOP OF FOUNDATION ELEV.</li> <li>LOE LOWEST OPENING ELEV.</li> </ul>
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 Proposed Top of Foundation Elevation = 1009.5  
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 Pool Area = 800 S.F.  
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 Screen Porch/Grill Area = 413 S.F.  
 Detached Garage Area = 549 S.F.  
 Total Area = 40,989 S.F.  
 Coverage = 4.9%



FIELD CREW	NO.	BY	DATE	REVISION
DM,ABE	1	DLS	7/19/2024	REVISED GRADES
DRAWN	2	DLS	8/8/2024	CITY COMMENTS
CHECKED				
DATE				
6/8/23				

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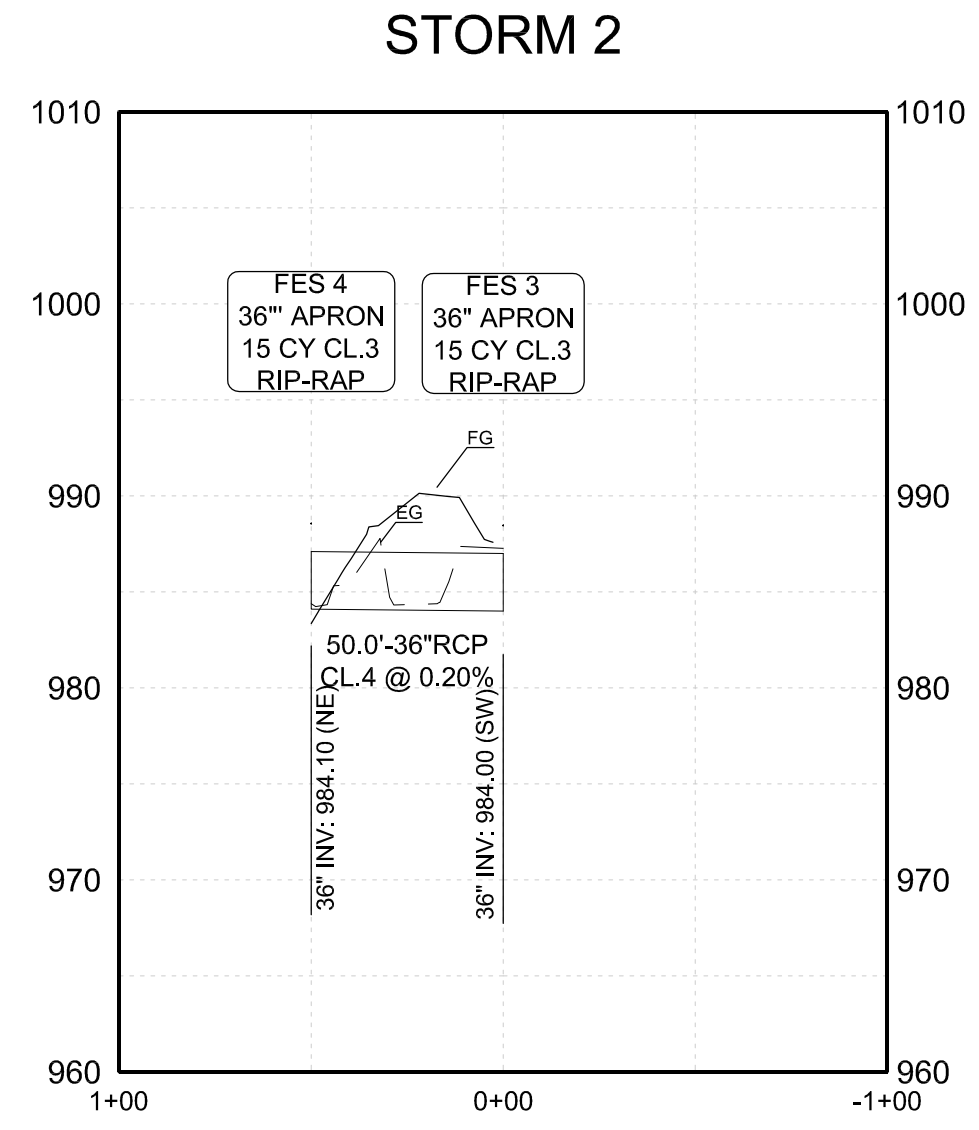
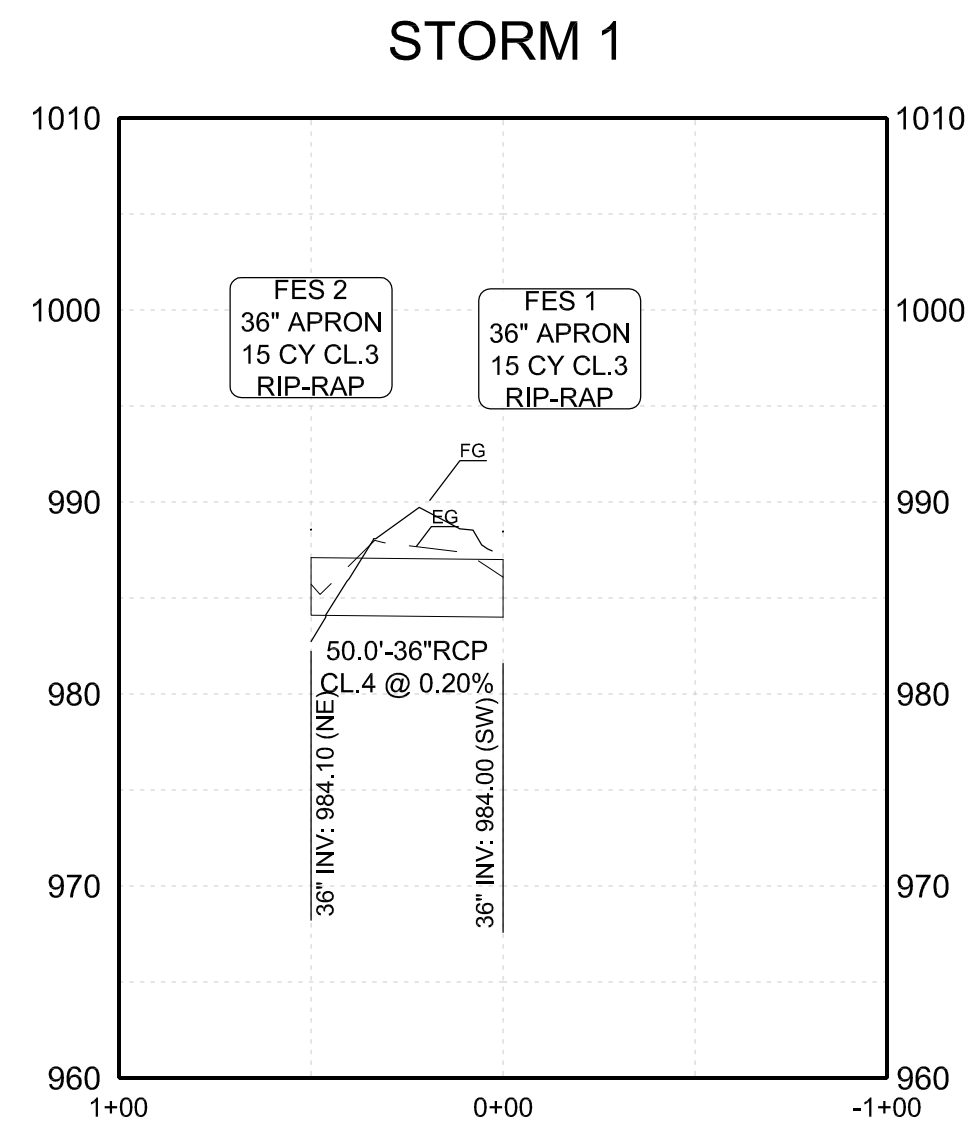
**SATHRE-BERGQUIST, INC.**  
 ENGINEERS SURVEYORS  
 DESIGNERS PLANNERS

14000 25TH AVENUE NORTH, SUITE 120  
 PLYMOUTH MN 55447 (952) 476-6000  
 WWW.SATHRE.COM

TWP:118-RGE.23-SEC.23  
 Hennepin County  
**MEDINA,  
 MINNESOTA**

**CERTIFICATE OF SURVEY**  
 PREPARED FOR:  
**SABY SINGH**

FILE NO.  
 95548-002  
**2**  
**3**



PROFILE VIEW: PV13-DRIVE  
 ALIGNMENT: DRIVE  
 HORZ SCALE: 1"=50'  
 VERT SCALE: 1"=10'  
 EXAGGERATION SCALE: 5.00'  
 DATUM ELEV: 980.00FT  
 TOP ELEV: 1030FT  
 BOTOM ELEV: 980FT

SEE CITY PLATE NO. STO-09 FOR RIPRAP PLACEMENT.

ANCHOR CLIP

24" MAX

6"

TIE LAST 3 PIPE JOINTS. USE 2 TIE BOLT FASTENERS PER JOINT. INSTALL AT 60° FROM TOP OR BOTTOM OF PIPE.

PROVIDE 3 ANCHOR CLIPS TO FASTEN TRASH GUARD TO FLARED END SECTION. HOT DIP GALVANIZE AFTER FABRICATION.

ANCHOR BOTH SIDES.

ISOMETRIC

PIPE SIZE	TRASH GUARD SIZING BARS	H'	BOLTS
12"-18"	3/4"φ	4"	5/8"
21"-42"	1"φ	6"	3/4"
48"-72"	1 1/4"φ	12"	1"

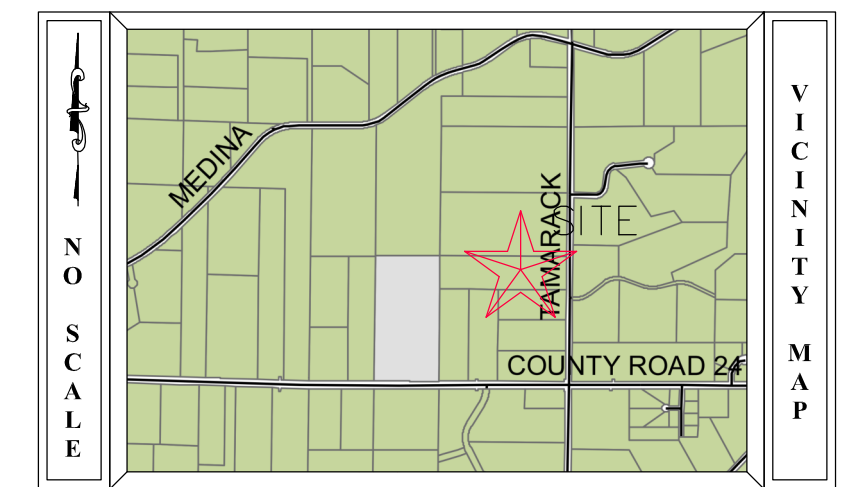
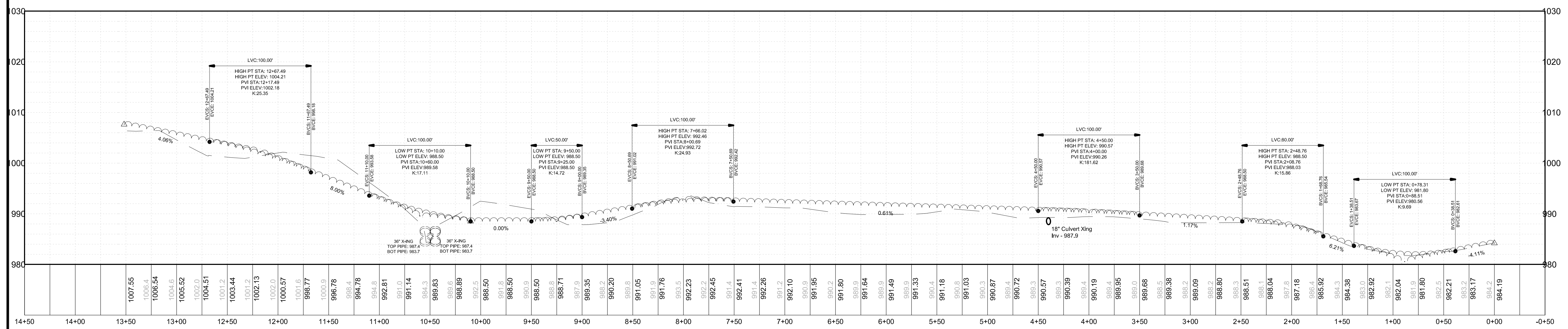
NOTE:  
 1. SHEET PILING REQUIRED FOR PIPE SIZES OF 36 INCHES OR GREATER, SEE PLATE NO. STO-20.

CITY OF MEDINA

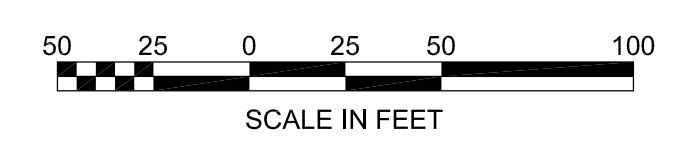
FLARED END SECTION AND TRASH GUARD

LAST REVISION: MAR. 2021

PLATE NO. STO-08



Bearings are based on the Hennepin County Coordinate System (NAD 83 - 1986 adj.)



FIELD CREW	NO.	BY	DATE	REVISION
DM, ABE	1	DLS	7/19/2024	REVISED GRADES
DRAWN	2	DLS	8/30/2024	WATERSHED COMMENTS
CHECKED				
DATE				
6/8/23				

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Dated this 14th day of June, 2023.

*Daniel L. Schmidt*

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 PLYMOUTH MN 55447 (952) 476-6000  
 WWW.SATHRE.COM

TWP:118-RGE.23-SEC.23  
 Hennepin County

**MEDINA, MINNESOTA**

**DRIVEWAY PROFILE**

PREPARED FOR:  
**SABY SINGH**

FILE NO.  
 95548-002

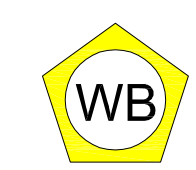
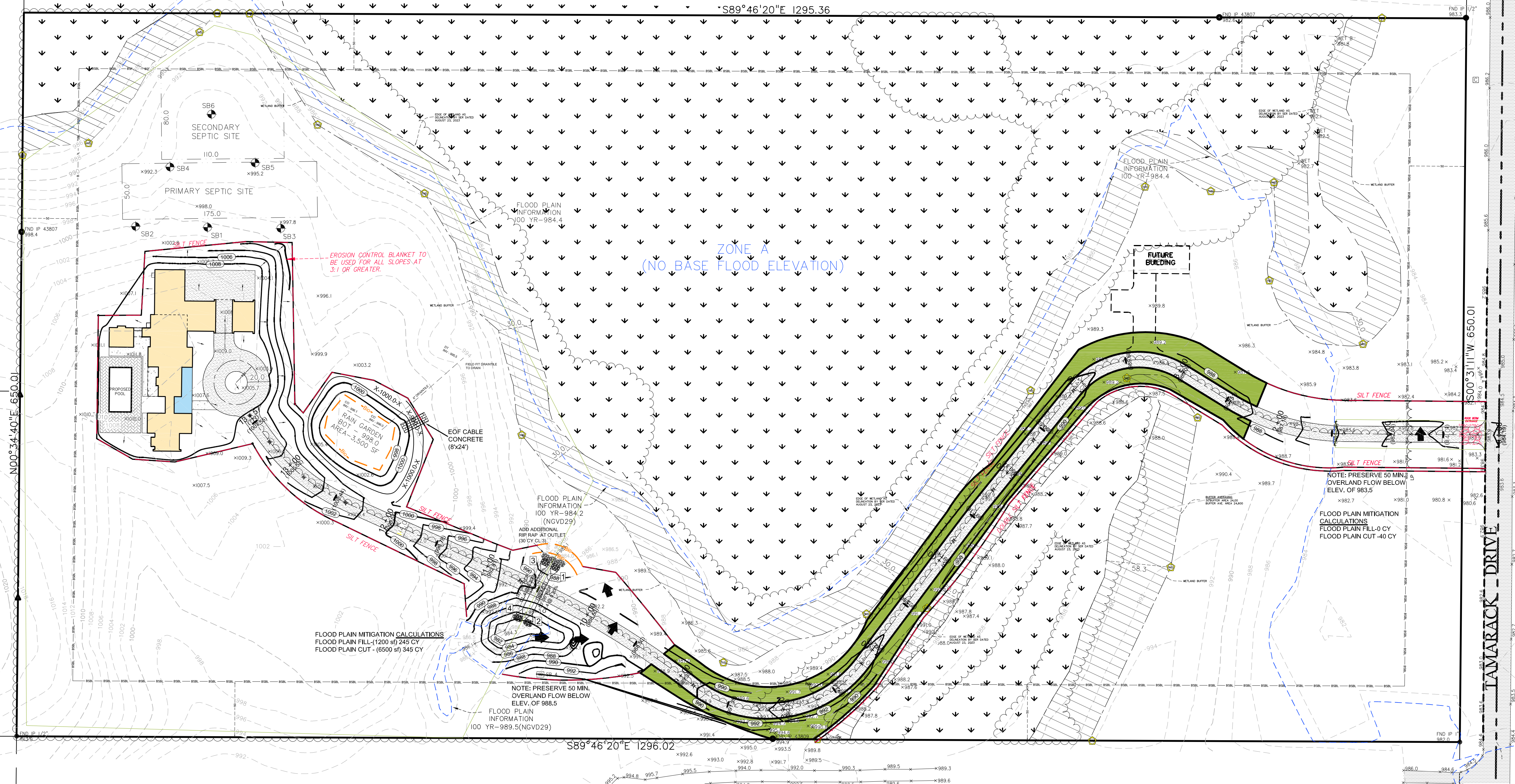
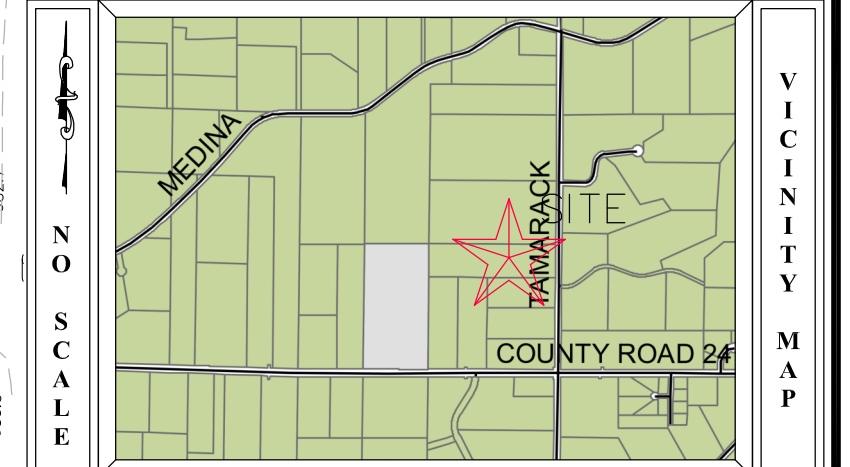
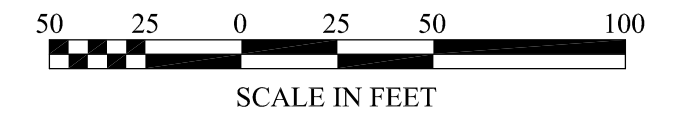
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**3**

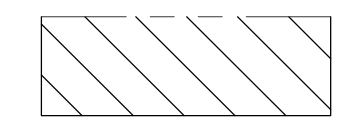
S89°46'20"E 1295.36



Bearings are based on the Hennepin County Coordinate System (NAD 83 - 1986 adj.)



WETLAND BUFFER MONUMENT



WETLAND BUFFER (30 FEET W/AVERAGING DOWN TO 20 FEET)



WETLAND BUFFER SEEDING AREA MNDOT MIX 35-242 SEE WETLAND BUFFER VEGETATION MAINTENANCE PLAN

FIELD CREW	NO.	BY	DATE	REVISION
DM,ABE	1	BRV	7/19/2024	REVISED HOUSE PLANS
DRAWN	2	DLS	8/8/2024	CITY COMMENTS
JRS	3	DLS	8/23/2024	MOVE DRIVEWAY OUT OF BUFFER
CHECKED				
DLS				
DATE				
6/8/23				

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TWP:118-RGE.23-SEC.23  
 Hennepin County  
**MEDINA,  
 MINNESOTA**

**WETLAND BUFFER PLAN**  
 PREPARED FOR:  
**SABY SINGH**

FILE NO.  
 95548-002

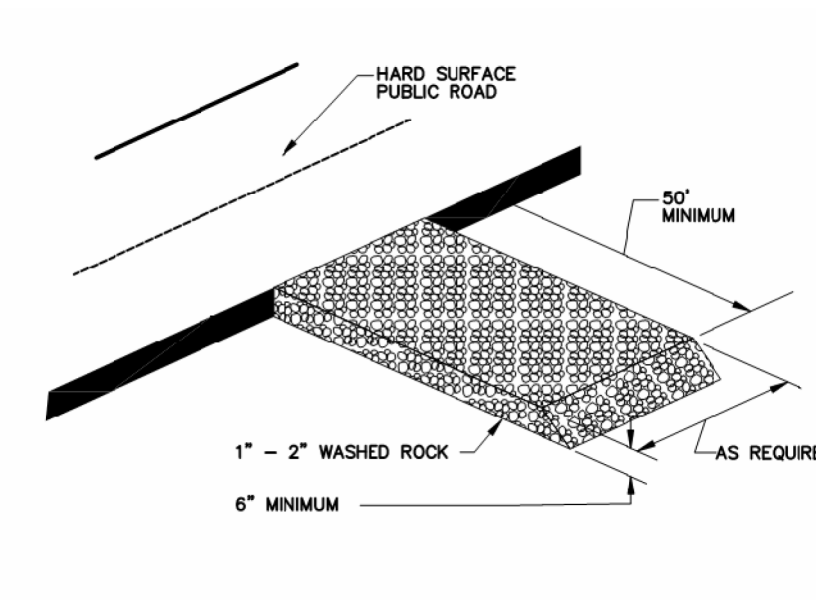
**Storm water, Sediment, and Erosion Control Contact:**

**Josh Denning**  
James Co. Homes  
Phone: 402.659.2744  
Email: joshd@jamescohomes.com

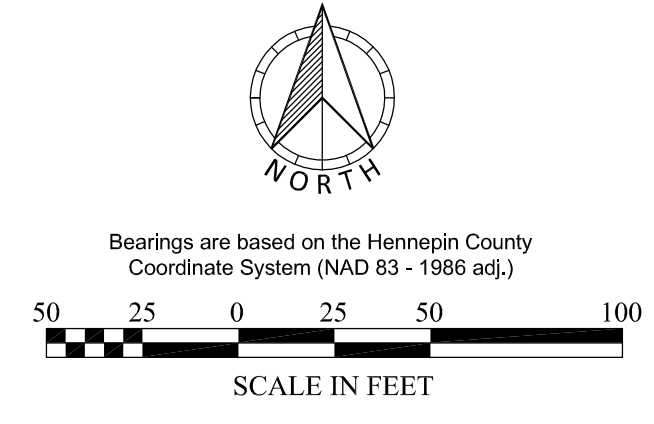
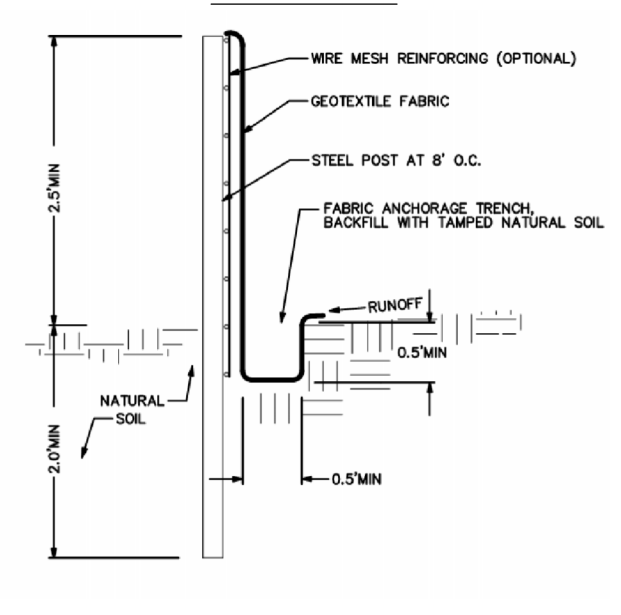
**Construction Sequencing**

1. Delineate the location of areas not to be disturbed before work begins.
2. Establish sediment control practices on all down gradient perimeters before any up gradient land disturbing activities begin. These practices shall remain in place until final stabilization has been established.
3. Install all perimeter sediment control devices and construction entrances. The timing of installation of sediment control practices may be adjusted in order to accommodate short-term activities, but sediment control practices must be installed before the next precipitation event even if the short-term activity is not complete.
4. Contact the City for approval of the sediment control devices.
5. Rough grade the site.
6. Install utilities.
7. Install pavements.
8. Install lawn and landscape.
9. Restore all disturbed areas.
10. Clean all storm sewer and conveyance systems.
11. After all disturbed areas are stabilized, obtain approval from the City and/or Watershed District.
12. Remove all temporary sediment control devices.

**ROCK BERM ENTRANCE**

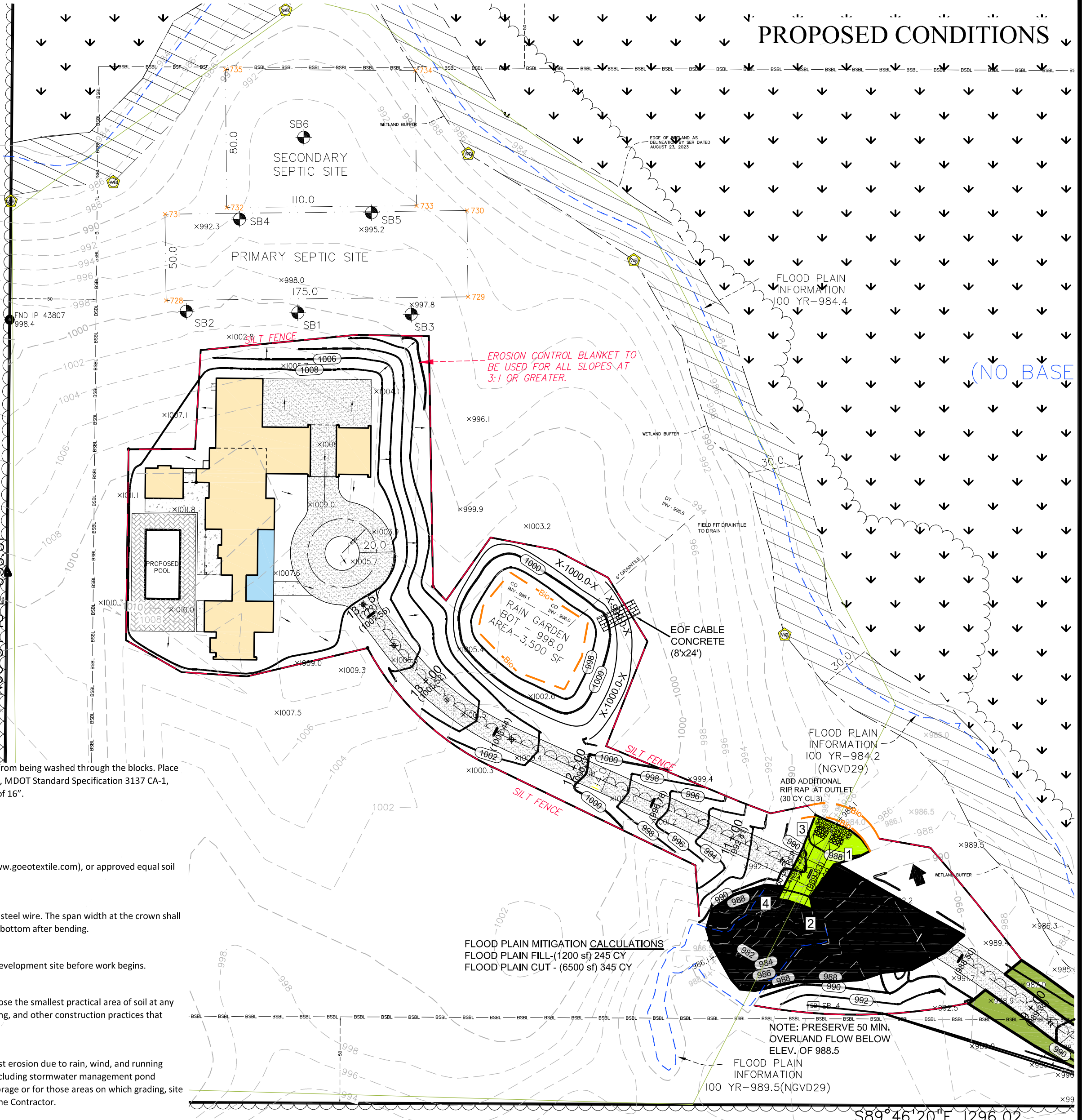


**SILT FENCE**



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**Proposed Hardcover**  
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Stoop Area = 496 S.F.  
Driveway Area = 31,560 S.F.  
Front Walk Area = 146 S.F.  
Pool Area = 800 S.F.  
Pool Deck Area = 1,713 S.F.  
Screen Porch/Grill Area = 415 S.F.  
Detached Garage Area = 549 S.F.  
Total Area = 40,989 S.F.  
Coverage = 4.9%



**Sediment Control Practices:**

1. Implement sediment control practices in order to minimize sediment from entering surface waters, including curb and gutter systems and storm drain inlets.
2. Install all temporary or permanent sediment control measures including silt fence at perimeter of construction, bio-logs at driveway, sediment filters, silt sacks, and sedimentation basins prior to beginning site clearing, grading, or other land-disturbing activity. Protect all storm sewer inlets that receive runoff from disturbed areas.
3. Establish sediment control practices on all down gradient perimeters before any up gradient land disturbing activities begin. These practices must remain in place until final stabilization has been established.
4. The timing of the installation of sediment control practices may be adjusted in order to accommodate short-term activities, but sediment control practices must be installed before the next precipitation event even if the short-term activity is not complete.
5. If the down gradient treatment system becomes overloaded, install additional up gradient sediment control practices or redundant BMPs in order to eliminate the overloading.
6. Before beginning construction, install a Temporary Rock Construction Entrance at each point where vehicles exit the construction site. Use 25 mm (1 inch) to 50 mm (2 inch) diameter rock, MNDOT Standard Specification 3137 CA-1, CA-2, CA-3, or equal Coarse Aggregate. Place the aggregate in a layer at least 152 mm (6 inches) thick across the entire width of the entrance. Extend the rock entrance at least 15 m (50 feet) into the construction zone. Use a MNDOT Standard Specification 3733 Type V permeable geotextile fabric material beneath the aggregate in order to prevent migration of soil into the rock from below. Maintain the entrance in a condition that will prevent tracking or flowing of sediment onto paved roadways. Provide periodic top dressing with addition stone as required. Close entrances not protected by temporary rock construction entrances to all construction traffic.
7. If necessary, clean the wheels of construction vehicles in order to remove soils before the vehicles leave the construction site. Wash vehicles only on an area stabilized with stone that drains into an approved sediment trapping device.
8. Remove all soils and sediments tracked or otherwise deposited onto adjacent property, pavement areas, sidewalks, streets, and alleys. Removal shall be on a daily basis throughout the duration of the construction. Clean paved roadways by shoveling, wet-sweeping, or dry sweeping. If necessary, scrape paved surfaces in order to loosen compacted sediment material prior to sweeping. Haul sediment material to a suitable disposal area. Street washing is allowed only after sediment has been removed by shoveling or sweeping.
9. **Soil Stockpiles:** Install silt fence or other effective sediment controls around all temporary soil stockpiles. Locate soil or dirt stockpiles such that the down slope drainage length is no less than 8 m (25 feet) from the toe of the pile to a surface water, including stormwater conveyances such as curb and gutter systems, or conduits and ditches unless there is a bypass in place for the stormwater. If remaining for more than 7 days, stabilize the stockpiles by mulching, vegetative cover, tarps, or other means. Drain in street repair, cover construction soil or dirt stockpiles located closer than 8 m (25 feet) to a roadway or drainage channel with tarps, and protect storm sewer inlets with silt sacks or staked siltfence.
10. **Silt Fence:** Install silt fence along the contour (on a level horizontal plane) with the ends turned up (J-hooks) in order to help pond water behind the fence. Install the silt fence on the uphill side of the support posts. Provide a post spacing of 1.2 m (4 feet) or less. Drive posts at least 0.6 m (2 feet) into the ground. Anchor the silt fence fabric in a trench at least 152 mm (6 inches) deep and 152 mm (6 inches) wide dug on the upslope side of the support posts. Lay the fabric in the trench and then backfill and compact with a vibratory plate compactor. Make any splices in the fabric at a fence post. Silt fence supporting posts shall be 51 mm (2 inch) square or larger hardwood, pine, or standard T- or U-section steel posts. T- or U-section steel post shall not weigh less than 1.8602 kg per meter (1.25 lb per lineal foot). Posts shall have a minimum length of 1524 mm (5 feet). Posts shall have projections to facilitate fastening the fabric and prevent slippage. Geotextile fabric shall be uniform in texture and appearance and have no defects, flaws, or tears. The fabric shall contain sufficient ultraviolet (UV) ray inhibitor and stabilizers to provide a minimum two-year service life outdoors. Fabric color shall be international orange.
11. Maintain all temporary erosion and sediment control devices in place until the contributing drainage area has been stabilized (hard-surfaced areas paved and vegetation established in greenspace). Repair any rilling, gully formation, or washouts. After final establishment of erosion and sediment control devices and any accumulated sediments. Dispose-of offsite. Restore permanent sedimentation basins to their design condition immediately following stabilization of the site.
12. If dewatering is required and sump pumps are used, all pumped water must be discharged through a sediment control device such as a dewatering bag or other appropriate facility prior to leaving the construction site. Proper energy dissipation must be provided at the outlet of the pump system.

- depth of more than one-third of the height of the erosion and sediment control devices. Repair, replace, or supplement deteriorated, damaged, rotted, or missing erosion control devices within 24 hours of discovery, or as soon as field conditions allow access.
- Repair, replace, or supplement all silt fences when they become nonfunctional or the sediment reaches 1/3 of the height of the fence. These repairs must be made within 24 hours of discovery, or as soon as field conditions allow access.
- Clean sedimentation basins, storm sewer catch basins, ditches, and other drainage facilities as required in order to maintain their effectiveness. Temporary and permanent sedimentation basins must be drained and the sediment removed when the depth of sediment collected in the basin reaches 3/4 of the storage volume. Drainage and removal must be completed within 72 hours, or as soon as field conditions allow access.
- Inspect surface waters (including drainage ditches and conveyance systems) evidence of erosion and sediment deposition. Remove all deltas and sediment deposited. Stabilize areas where sediment removal results in exposed soil. Removal and stabilization must be completed within 7 days of discovery unless precluded by legal, regulatory, or physical access constraints. If precluded, removal and stabilization must take place with 7 days of obtaining access.
- Inspect construction site vehicle exit locations for evidence of off-site sediment tracking onto paved surfaces. Remove all soils and sediments tracked or otherwise deposited onto adjacent property, pavement areas, sidewalks, streets, and alleys. Removal shall be on a daily basis throughout the duration of the construction. Clean paved roadways by shoveling or wet-sweeping. Do not dry sweep. If necessary, scrape paved surfaces in order to loosen compacted sediment material prior to sweeping. Haul sediment material to a suitable disposal area. Street washing is allowed only after sediment has been removed by shoveling or sweeping.
- Perform any corrective measures ordered by the City or Watershed District within 24 hours of notification. Install any additional erosion protection or sediment control measures deemed necessary by the City or Watershed District within 24 hours of notification.

- perimeter to the top of the block barrier before the rock is placed. The screen acts to prevent the rocks from being washed through the blocks. Place rock against the wire mesh to the top of the blocks. Use 25 mm (1 inch) to 50 mm (2 inch) diameter rock, MNDOT Standard Specification 3137 CA-1, CA-2, CA-3, or equal Coarse Aggregate. Install two courses of 8" blocks in order to form a barrier height of 16".
  - Biodegradable Erosion Control Blankets: In accordance with MNDOT Standard Specification 3885.
  - Erosion Control Matting: LandLog TRM 450 Turf Reinforcement Mat manufactured by Propex, Inc. (www.goetextile.com), or approved equal soil erosion control matting.
  - Staples: Staples used to anchor erosion control blankets shall be U-shaped, 3 mm diameter or heavier steel wire. The span width at the crown shall be a minimum of 25 mm (1 inch). Staples shall have a length of 250 mm (10 inches) or more from top to bottom after bending.
- Erosion Prevention Practices:**
1. Delineate the location of areas not to be disturbed (e.g. with flags, stakes, signs, silt fence, etc.) on the development site before work begins.
  2. Avoid removal of trees and surface vegetation wherever possible. Schedule construction in order to expose the smallest practical area of soil at any given time. Implement appropriate construction phasing, vegetative buffer strips, horizontal slope grading, and other construction practices that minimize erosion.
  3. Following initial soil disturbance or redistribution, complete permanent or temporary stabilization against erosion due to rain, wind, and running water as soon as possible, but in no case later than 14 calendar days, on all disturbed or graded areas including stormwater management pond sideslopes. This requirement does not apply to those areas that are currently being used for material storage or for those areas on which grading, site building, or other construction activities are actively underway or will be underway at the discretion of the Contractor.
  4. Provide temporary grass seed cover on all topsoil stockpiles and other areas of stockpiled excavated material in order to prevent soil erosion and rapid runoff during the construction period. Prolonged periods of open, bare earth without grass cover will not be permitted unless there are or will be construction activities at the discretion of the Contractor. Stabilize all disturbed greenspace areas with a minimum of 4" topsoil immediately after final subgrade completion. Seed and mulch, or sod and stake these areas within 48 hours after completion of final grading work (weather permitting).
  5. Stabilize all disturbed areas to be paved by using early application of gravel base.

- Materials:**
- Storm Sewer Inlet Protection:** The following are approved inlet sediment control devices:
    - a. Road Drain Top Slab Model RD 23 (fits rough opening for a 2'x3' inlet), Road Drain Top Slab Model RD 27 (fits rough opening for a 2'x2' inlet), or Road Drain Top Slab Model CG 3067 (fits Neenah Casting with 35-1/4"x17-3/4" dimensions) manufactured by WIMCO, 799 Thies Drive, Shakopee, MN 55379, Phone (952) 233-3055.
    - b. Silt Sack: Regular flow (40 gal/min/sq. ft). Average width strength equal to 165.0 lbs/in, ASTM D-4884. Rectangular silt sack on rectangular inlets. Round silt sack on round inlets. Use ACE Environmental, Inc., 2831 Cardwell Road, Richmond, VA 23234, Phone (800) 448-3636, or approved equal.
    - c. IntraSafe Sediment Control Barrier. Install geotextile sock on the outside of the barrier in order to trap additional fines. Standard frames are available in ft. 24" to 30" diameter and 2'x3' openings. Distributed by ROYAL ENTERPRISES AMERICA, 30622 Forest Boulevard, Stacy, MN, 55073, Phone (651) 462-2130.
  - Topsoil:** Topsoil used for finish grading areas to be turfed or planted shall meet the requirements of MNDOT Standard Specification 3877 for topsoil borrow modified to contain no more than 35% sand. Topsoil shall be reasonably free of subsoil, heavy clay, coarse sand, stones, and other objects over 51 mm (2 inches) in diameter; and without plants, roots, sticks, and other objectionable material.
  - Geotextile Fabric for Subgrade Stabilization (if required):** MNDOT Standard Specification 3733 Type V permeable geotextile material.
  - Supporting Posts for Siltfence:** 51 mm (2 inch) square or larger hardwood, pine, or standard T- or U-section steel posts. T- or U-section steel posts shall weigh not less than 1.8602 kg per meter (1.25 lb per lineal foot). Posts shall have a minimum length of 1524 mm (5 feet). Posts shall have projections to facilitate fastening the fabric and prevent slippage.
  - Siltfence Fabric:** MNDOT Standard Specification 3886 self-supporting silt fence. Furnish in a continuous roll in order to avoid splices. Geotextile fabric shall be uniform in texture and appearance and have no defects, flaws, or tears. The fabric shall contain sufficient ultraviolet (UV) ray inhibitor and stabilizers to provide a minimum two-year service life outdoors. Fabric shall be international orange.
  - Aggregate for Temporary Rock Construction Entrance:** 25 mm (1 inch) to 50 mm (2 inch) diameter rock, MNDOT Standard Specification 3137 CA-1, CA-2, or CA-3 Coarse Aggregate, or equal.
  - Geotextile Fabric for Temporary Rock Construction Entrance:** MNDOT Standard Specification 3733 Type V permeable geotextile fabric material.
  - Aggregate for Block and Rock Sediment Filter:** 25 mm (1 inch) to 50 mm (2 inch) diameter rock, MNDOT Standard Specification 3137 CA-1, CA-2, or CA-3 Coarse Aggregate, or equal.
  - Block and Rock Inlet Filters:** Block and Rock Inlet Filters consist of open-core concrete masonry blocks, wire screen with 12 mm (0.5 inch) openings, and washed rock. Place open-core concrete masonry blocks lengthwise on their sides around the catchbasin inlet. Place wire screen around the

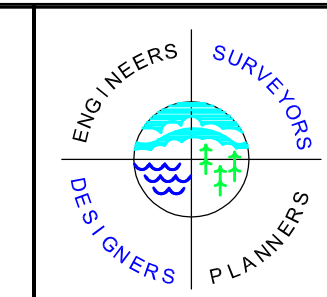
1. **Solid Waste:** Dispose of collected sediment, asphalt and concrete millings, floating debris, paper, plastic, fabric, construction and demolition debris, and other wastes properly off-site in compliance with Minnesota Pollution Control Agency requirements.
- Hazardous Materials:** Properly store oil, gasoline, paint and any other hazardous substances in order to prevent spills, leaks or other discharge. Include secondary containment. Restrict access to storage areas in order to prevent vandalism. Storage and disposal of hazardous materials must be in compliance with MPCA regulations.
- Other Materials:** Dispose of unused building materials, garbage, trash, cleaning wastes, toxic materials, and wastewater properly off-site and in compliance with Minnesota Pollution Control Agency disposal requirements.
- Furnish suitable trash containers and regularly remove the accumulated trash from the premises.
- Do not allow solid waste, hazardous materials, and other materials shall to be carried by runoff into a receiving water or storm sewer system.
- Limit external washing of trucks and other construction vehicles to a defined area of the site. Wash vehicles only on an area stabilized with stone that drains into an approved sediment trapping device. Contain runoff and properly dispose of waste. Engine degreasing is prohibited.
- Concrete Washout Operations:** Contain all liquid and solid wastes generated by concrete washout operations in a leak-proof containment facility or impermeable liner. Do not allow the liquid and solid wastes to contact the ground. Prevent runoff from the concrete washout operations or areas. Dispose of liquid and solid wastes properly in compliance with Minnesota Pollution Control Agency regulations. Install a sign adjacent to each washout facility in order to inform concrete equipment operators to utilize the proper facilities.
- Sanitary and Septic Waste:** Furnish and install detached portable toilet facilities at the construction site. The portable toilets shall be conveniently located for the use of all workers on the project. Maintain the facilities in a clean, dry, sanitary condition in accordance with Minnesota Department of Health requirements.

<ul style="list-style-type: none"> <li>○ CAST IRON MONUMENT</li> <li>○ IRON PIPE MONUMENT FOUND</li> <li>✕ DRILL HOLE FOUND</li> <li>✕ CHISELED "X" MONUMENT SET</li> <li>✕ CHISELED "Y" MONUMENT FOUND</li> <li>▲ REBAR MONUMENT FOUND</li> <li>▲ PK NAIL MONUMENT SET</li> <li>▲ PK NAIL MONUMENT FOUND</li> <li>○ PK NAIL W/ ALUMINUM DISC</li> <li>□ SURVEY CONTROL POINT</li> <li>□ A/C UNIT</li> <li>□ CABLE TV PEDESTAL</li> <li>□ ELECTRIC TRANSFORMER</li> <li>□ ELECTRIC MANHOLE</li> <li>□ ELECTRIC METER</li> <li>□ ELECTRIC OUTLET</li> <li>□ YARD LIGHT</li> <li>□ LIGHT POLE</li> <li>□ FIBER OPTIC MANHOLE</li> <li>□ FIRE DEPT. HOOK UP</li> <li>□ FLAG POLE</li> <li>□ FUEL PUMP</li> <li>□ FUEL TANK</li> <li>□ PROPANE TANK</li> <li>□ GAS METER</li> <li>□ GAS VALVE</li> <li>□ GAS MANHOLE</li> <li>□ GENERATOR</li> <li>□ GUARD POST</li> <li>□ GUARD HOLE</li> <li>□ MAIL BOX</li> </ul>	<ul style="list-style-type: none"> <li>○ PIEZOMETER</li> <li>○ POWER POLE</li> <li>○ GUY WIRE</li> <li>□ ROOF DRAIN</li> <li>□ LIFT STATION</li> <li>□ SANITARY MANHOLE</li> <li>□ SANITARY CLEANOUT</li> <li>□ STORM MANHOLE</li> <li>□ STORM DRAIN</li> <li>□ CATCH BASIN</li> <li>□ FLORED END SECTION</li> <li>□ TREE CONIFEROUS</li> <li>□ TREE DECIDUOUS</li> <li>□ TREE CONIFEROUS REMOVED</li> <li>□ TREE DECIDUOUS REMOVED</li> <li>□ TELEPHONE MANHOLE</li> <li>□ TELEPHONE PEDESTAL</li> <li>□ CONTOUR EXISTING</li> <li>□ UTILITY PEDESTAL</li> <li>□ UTILITY VAULT</li> <li>□ WATERMAN MANHOLE</li> <li>□ WATER METER</li> <li>□ WATER SPIGOT</li> <li>□ WELL</li> <li>□ MONITORING WELL</li> <li>□ CURB STOP</li> <li>□ WATERMAIN</li> <li>□ GATE VALVE</li> <li>□ HYDRANT</li> <li>□ IRRIGATION VALVE</li> <li>□ POST INDICATOR VALVE</li> <li>□ SIGN</li> <li>□ SOIL BORING</li> </ul>	<ul style="list-style-type: none"> <li>WOE WALKOUT ELEVATION</li> <li>GFE FIRST FLOOR ELEVATION</li> <li>GFF GARAGE FLOOR ELEVATION</li> <li>TOF TOP OF FOUNDATION ELEV.</li> <li>LOE LOWEST OPENING ELEV.</li> <li>CONCRETE</li> <li>BITUMINOUS</li> <li>BUILDING SETBACK LINE</li> <li>CTV CABLE TV</li> <li>CONCRETE CURB</li> <li>CONTOUR EXISTING</li> <li>CONTOUR PROPOSED</li> <li>GUARD RAIL</li> <li>DRAIN TILE</li> <li>ELECTRIC UNDERGROUND</li> <li>FENCE</li> <li>FIBER OPTIC UNDERGROUND</li> <li>GAS UNDERGROUND</li> <li>OVERHEAD UTILITY</li> <li>TREE LINE</li> <li>SANITARY SEWER</li> <li>STORM SEWER</li> <li>TELEPHONE UNDERGROUND</li> <li>RETAINING WALL</li> <li>UTILITY UNDERGROUND</li> <li>WATERMAIN</li> <li>TRAFFIC SIGNAL</li> <li>RAILROAD TRACKS</li> <li>RAILROAD SIGNAL</li> <li>RAILROAD SWITCH</li> <li>SATELLITE DISH</li> <li>WETLAND BUFFER SIGN</li> </ul>
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FIELD CREW	NO.	BY	DATE	REVISION
DM,ABE	1	BRV	7/19/2024	REVISED HOUSE PLANS
DRAWN	2	DLS	8/8/2024	CITY COMMENTS
JRS	3	DLS	8/23/2024	MOVE DRIVEWAY OUT OF BUFFER
CHECKED				
DLS				
DATE				
6/8/23				

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I hereby certify that this survey, plan or report was prepared by me or under my direct supervision and that I am a duly Licensed Land Surveyor under the laws of the State of Minnesota.  
Dated this 14th day of June, 2023.  
Daniel L. Schmidt, PLS  
schmidt@sathre.com  
Minnesota License No. 26147



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Hennepin County  
**MEDINA, MINNESOTA**

**SWPPP**  
PREPARED FOR:  
**SABY SINGH**  
FILE NO.  
95548-002  
**1**