

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

1. THE CONTRACTOR SHALL REFER TO CONSTRUCTION NOTES ON L001 & L601 PRIOR TO THE START OF CONSTRUCTION.
2. REFER TO PLANS FOR TREE PRESERVATION FENCE LOCATIONS.
3. EROSION CONTROL MATERIAL QUANTITIES ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE FOR THEMSELVES THE EXACT QUANTITIES FOR BIDDING AND CONSTRUCTION. THE CONTRACTOR SHALL NOT RELY ON THESE QUANTITIES FOR THEIR BID. THE LANDSCAPE ARCHITECT IS NOT RESPONSIBLE FOR COST ESTIMATES AND/OR ACTUAL CONSTRUCTION COSTS.

EROSION CONTROL MATERIAL QUANTITIES

ITEM	UNIT	QUANTITY
ROCK CONSTRUCTION EXIT	EA.	1
SILT FENCE	L.F.	2260
TREE PROTECTION FENCE	L.F.	66
BIOLOG ROLL	L.F.	37

GENERAL NOTES

1. SEE SHEET L000 FOR PROJECT INFORMATION, SHEET INDEX, AND LEGEND.
2. SEE SHEET L001 FOR GENERAL NOTES.
3. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING INFO.
4. ELECTRICAL CONTRACTOR, MECHANICAL CONTRACTOR, AND IRRIGATION CONTRACTOR TO COORDINATE WITH PAVING, CONCRETE, AND WALL CONTRACTORS ON SLEEVE LOCATIONS UNDER DRIVEWAYS, WALKS, AND WALLS.
5. REFER TO SHEET L010 - EXISTING CONDITIONS PLAN FOR BOUNDARY INFORMATION. ALL CONSTRUCTION STAKING MUST BE PERFORMED BY A REGISTERED LAND SURVEYOR.
6. DO NOT SCALE THE DRAWINGS. WRITTEN DIMENSIONS ARE TO BE USED FOR ALL LAYOUT WORK.
7. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT OF ANY LAYOUT DISCREPANCIES.
8. ALL SITE ELEMENTS SHALL BE STAKED IN THE FIELD AND APPROVED BY LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
9. AUTOCAD FILE AVAILABLE TO CONTRACTOR UPON REQUEST FOR FIELD LAYOUT.

KEYNOTES

1. EXISTING SIGNIFICANT TREE(S) TYP. - SAVE AND PROTECT
2. EXISTING NEIGHBORING PROPERTY/SITE FEATURE - SAVE AND PROTECT
3. EXISTING CITY STREET/ALLEY - SAVE AND PROTECT, REPAIR ANY DAMAGED AREAS PER CITY STANDARDS
4. EXISTING SHORELINE EDGE - SAVE AND PROTECT
5. LAKE MINNETONKA OHWL 929.40 - SAVE AND PROTECT
6. EXISTING 100 YEAR FLOODPLAIN LINE 931.50
7. SANITARY SEWER LINE - SAVE AND PROTECT, V.I.F.
8. EXISTING WETLAND - SAVE AND PROTECT
9. EXISTING RIP RAP - SAVE AND PROTECT
10. EXISTING BEACH - SAVE AND PROTECT

SHEET NOTES

1. EXISTING BOATHOUSE TO BE REMOVED AND RECONSTRUCTED, REFER TO ARCH.
2. EXISTING DOCK TO REMAIN, SAVE AND PROTECT
3. PROPOSED SILT FENCE
4. PROPOSED DOUBLE ROW SILT FENCE
5. LIMITS OF DISTURBANCE
6. CONCRETE WASHOUT AREA, PER REGULATIONS
7. GRAVEL CONSTRUCTION ENTRANCE
8. PROPOSED TREE PROTECTION FENCE
9. PROPOSED BIO LOG EROSION CONTROL

REMOVALS SCHEDULE

KEY	DESCRIPTION
R1	EXISTING TREE TO BE REMOVED
R2	EXISTING HOUSE TO BE REMOVED
R3	EXISTING STRUCTURE TO BE REMOVED
R4	EXISTING PAVING TO BE REMOVED
R5	EXISTING STAIRS TO BE REMOVED
R6	EXISTING WALL TO BE REMOVED
R7	EXISTING LANDSCAPING TO BE REMOVED
R8	EXISTING FENCE TO BE REMOVED
R9	EXISTING STEPPERS TO BE REMOVED
R10	EXISTING SITE ELEMENT TO BE REMOVED
R11	EXISTING UNDERGROUND UTILITY TO BE REMOVED
R12	BUCKTHORN AND INVASIVE ON SLOPE TO BE REMOVED
R13	EXISTING WELL TO BE REMOVED

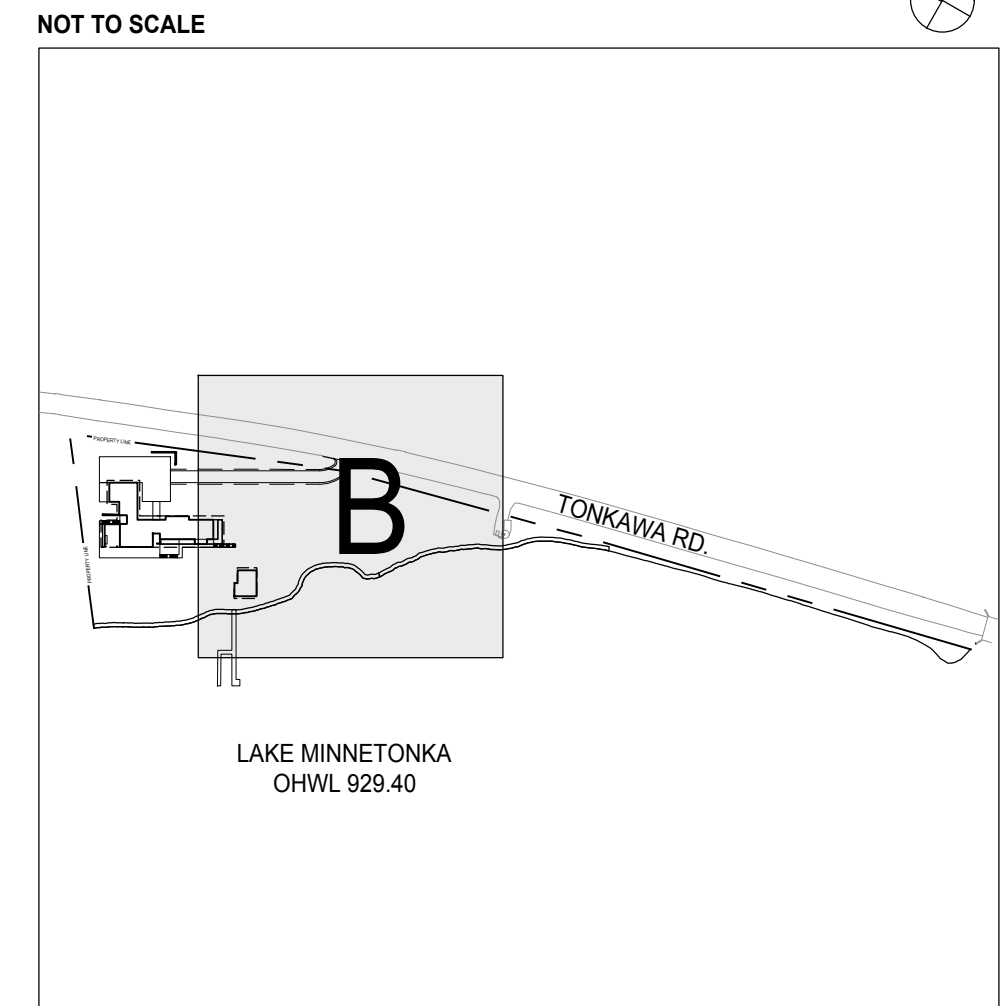
TREE REMOVALS SCHEDULE

KEY	SPECIES	DBH (IN.)	HEALTH	INSIDE TP SETBACK	REPLACEMENT RATIO (INCHES)
982	MAPLE	22.0	GOOD	Y	1:1, MIN 1.5' CAL.
986	OAK	18.0	GOOD	Y	1:1, MIN 1.5' CAL.
1876	MAPLE	20.0	GOOD	Y	1:1, MIN 1.5' CAL.

TOTAL INCHES TO BE REMOVED: 60
 TOTAL NUMBER OF DISEASED TREES TO BE REMOVED: 0
 TOTAL INCHES TO BE REPLACED - REQUIRED: 60
 TOTAL 1:1 REPLACEMENT TREES - PROPOSED: 15
 TOTAL DISEASED TREE 1-1/2" REPLACEMENT TREES - PROPOSED: 0
 TOTAL REPLACEMENT TREES - PROPOSED: 15
 TOTAL INCHES REPLACED - PROPOSED: 63

SEE L401 FOR REPLACEMENT TREES AND LOCATIONS

KEY PLAN



WALD / ELEY RETREAT

1205 TONKAWA ROAD, ORONO, MINNESOTA 55356

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Travis Van Liere
TRAVIS VAN LIERE
license no: 43728
date: 2/13/2025

Rev #	Issue/Revision	Date
	PRELIMINARY PRICING SET	08/01/2024
	ISSUED FOR PERMIT	08/14/2024
1	WATERSHED PERMIT REVISIONS	09/18/2024
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3	CITY DEMO REVISIONS	10/04/2024
4	CITY PERMIT UPDATES	11/18/2024
	ISSUED FOR BID	01/29/2025
	ISSUED FOR FLOOD ALT. PERMIT	2/13/2025

Drawing:
EXISTING CONDITIONS AND REMOVALS PLAN

Drawn By: A.E.
Date: 2/13/2025
Scale: 1/16" = 1'-0"

Sheet:
L011B

CUT AND FILL VOLUMES SCHEDULE

CONTOUR NUMBER	AREA OF CUT (FT²)	AREA OF FILL (FT²)	VOLUME CUT (YD³)	VOLUME FILL (YD³)	VOLUME CUT (YD³)	VOLUME FILL (YD³)
931.50	518	4214	259	2107	10	78
931.00	1799	2075	1799	2075	67	77
930	3182	19	3182	19	118	1
TOTAL	5499	6308	5240	4201	194	156

GENERAL NOTES

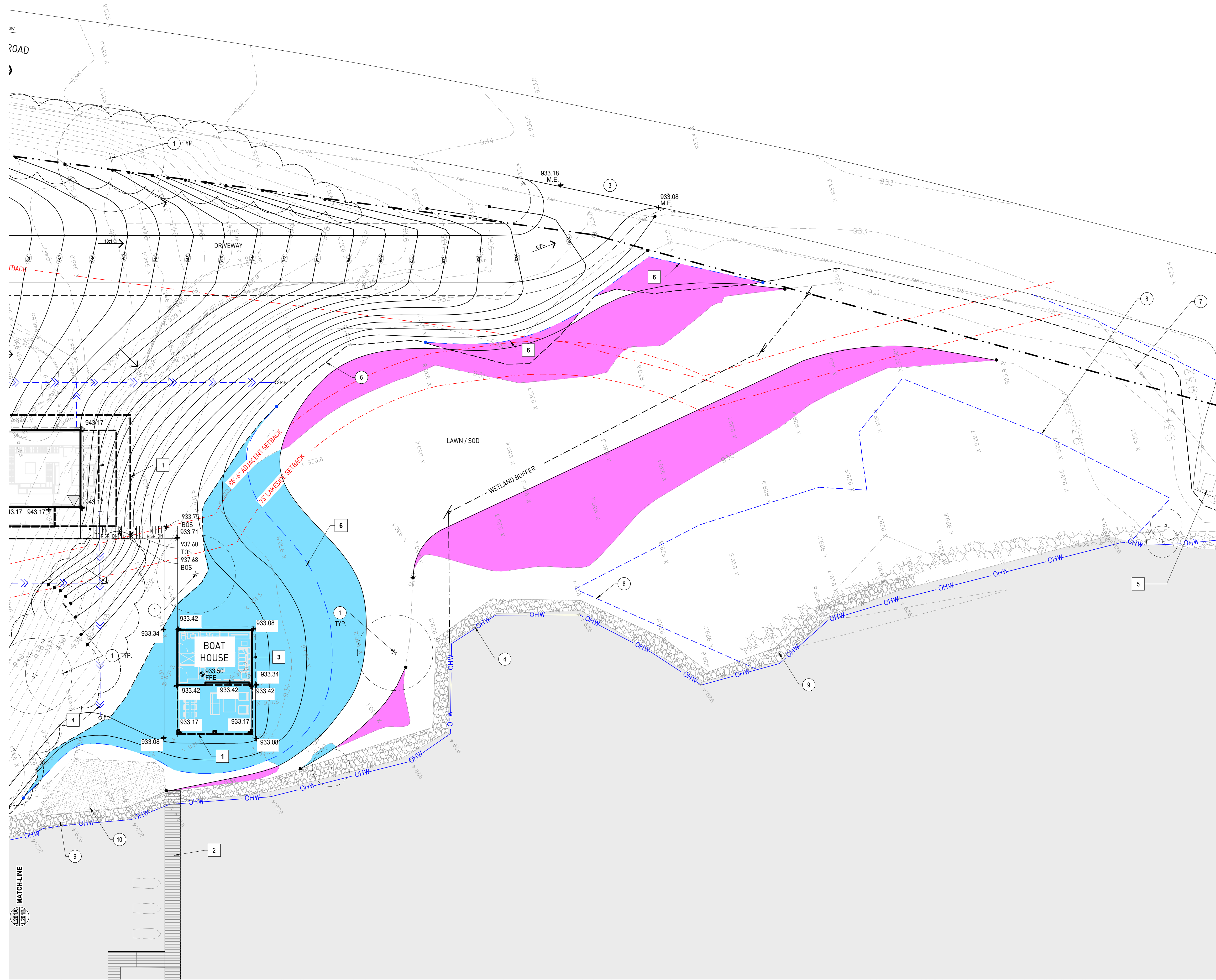
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- EXISTING RIP RAP - SAVE AND PROTECT
- EXISTING BEACH - SAVE AND PROTECT

SHEET NOTES

- BUILDING OVERHANG
- PROPOSED DOCK LOCATION, BY OWNER
- EXISTING BOATHOUSE TO BE RECONSTRUCTED
- DRAIN TILE
- EXISTING UTILITY, SAVE AND PROTECT
- PROPOSED 100 YEAR FLOODPLAIN LINE 931.50



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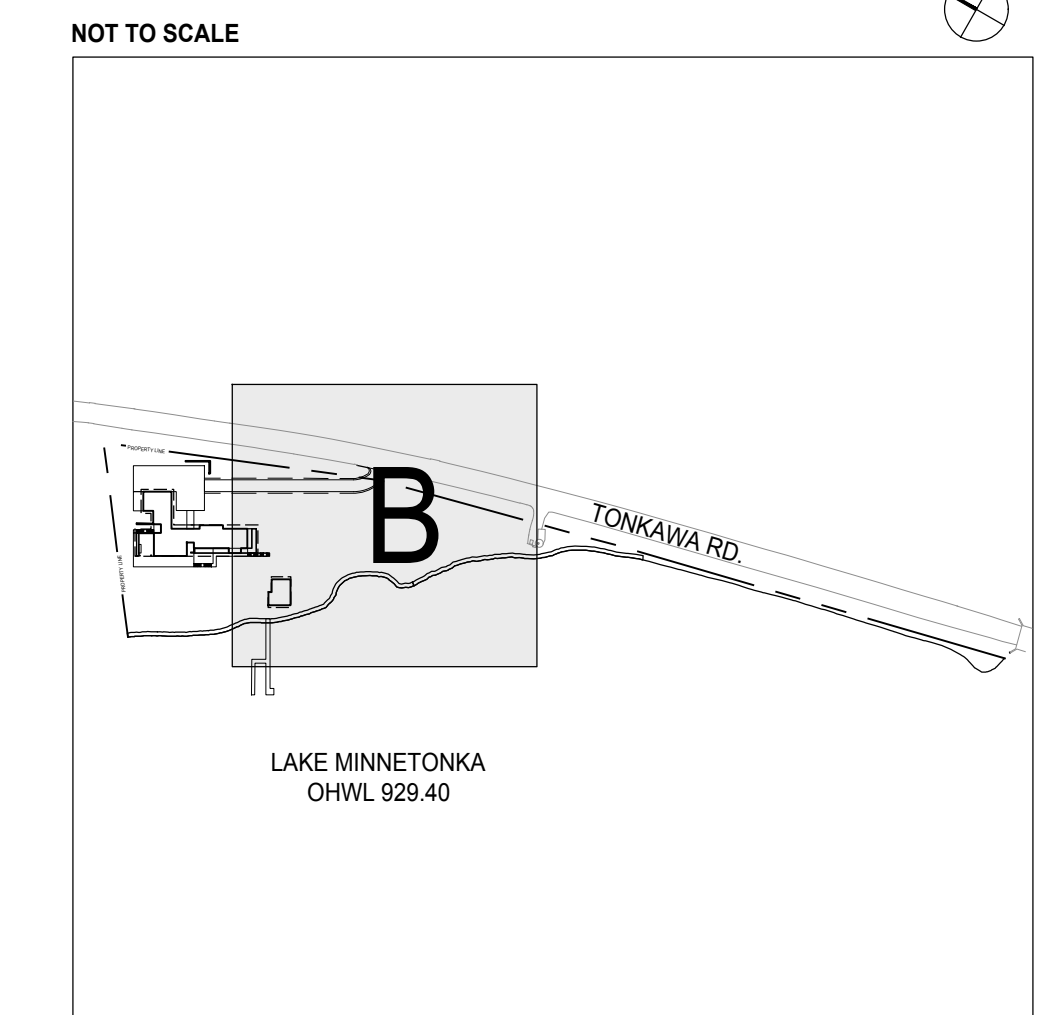
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Travis Van Liere
TRAVIS VAN LIERE
license no: 43728
date: 2/12/2025

KEY PLAN



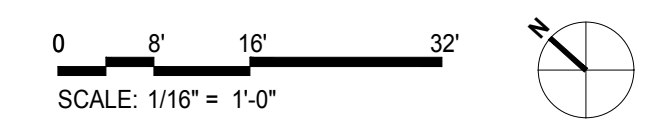
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Drawing:
GRADING AND DRAINAGE PLAN

Drawn By: A.E.
Date: 2/13/2025
Scale: 1/16" = 1'-0"

Sheet:
L201B

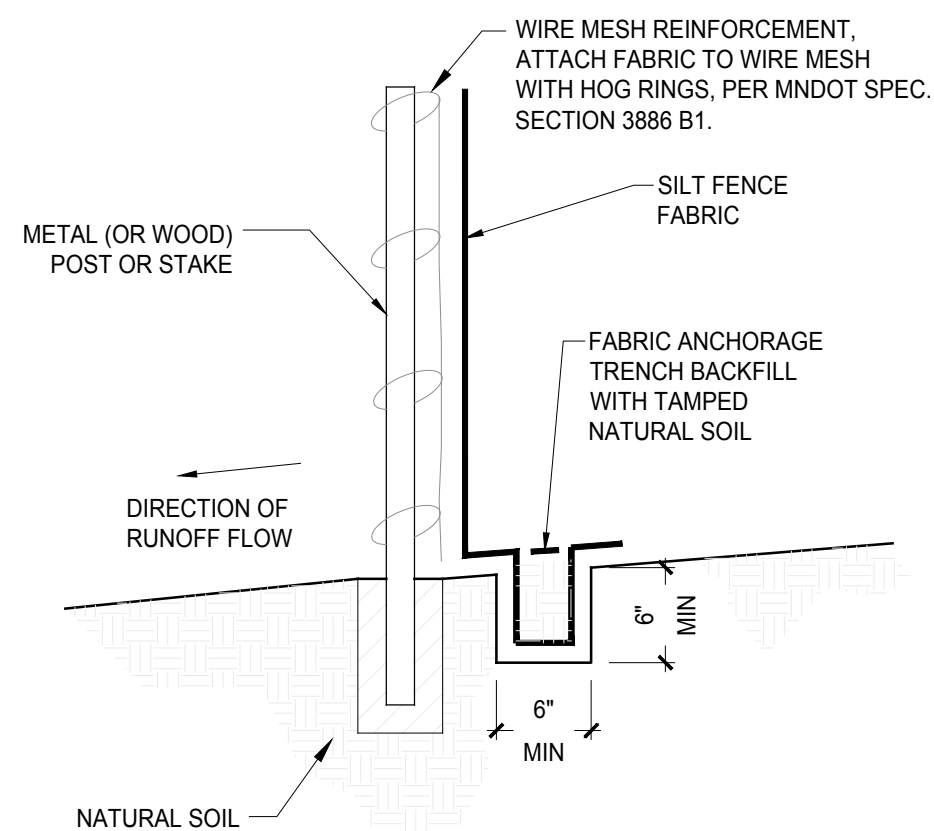
1 GRADING AND DRAINAGE PLAN



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GENERAL EROSION AND SEDIMENT CONTROL NOTES:

- SEE THE EROSION AND SEDIMENT CONTROL PLAN (L011) (WHEN UNDER ONE (1) ACRE DISTURBED) SHEETS FOR BMP CONSTRUCTION LAYOUTS, DETAILS, AND ADDITIONAL NOTES.
- THE CONTRACTOR SHALL INSTALL PERIMETER EROSION CONTROL AT THE LOCATIONS SHOWN ON THE PLANS PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE AND/OR CONSTRUCTION ACTIVITIES. SILT FENCE AND/OR BIOROLLS SHALL FOLLOW EXISTING CONTOURS AS CLOSELY AS FEASIBLE.
- BEFORE BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL INSTALL A TEMPORARY CONSTRUCTION EXIT AT EACH POINT WHERE VEHICLES WILL EXIT THE CONSTRUCTION SITE.
 - FOR ROCK CONSTRUCTION EXITS, USE TWO (2) 12" INCH OR GREATER DIAMETER ROCK IN A LAYER AT LEAST SIX (6) INCHES THICK ACROSS THE ENTIRE WIDTH OF THE CONSTRUCTION EXIT. EXTEND THE CONSTRUCTION EXIT AT LEAST 50 FEET INTO THE CONSTRUCTION ZONE USING A GEO-TEXTILE FABRIC BENEATH THE AGGREGATE TO PREVENT MIGRATION OF SOIL INTO THE ROCK FROM BELOW. SEE SEDIMENT AND EROSION CONTROL PLAN SHEETS FOR BMP CONSTRUCTION DETAILS AND NOTES.
- THE (GENERAL) CONTRACTOR SHALL DENOTE ON THE PLANS THE TEMPORARY PARKING AND STORAGE AREAS, WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREAS, EMPLOYEE PARKING AREAS, AND AREAS FOR LOCATION OF PORTABLE FACILITIES, OFFICE TRAILERS, TOILET FACILITIES, ETC.
 - THE CONTRACTOR SHALL REMOVE ALL SOILS AND SEDIMENTS TRACKED OR OTHERWISE DEPOSITED ONTO PUBLIC AND PRIVATE PAVEMENT AREAS. REMOVAL SHALL AT LEAST BE ON A DAILY BASIS WHEN TRACKING OCCURS AND/OR WHEN NEEDED. SWEEPING SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE CONSTRUCTION AND DONE IN A MANNER TO PREVENT DUST BEING BLOWN TOWARD ADJACENT PROPERTIES AND/OR PUBLIC RIGHT-OF-WAY (ROW). THE CONTRACTOR SHALL INSTALL INLET PROTECTION AT ALL PUBLIC AND PRIVATE CATCH BASIN INLETS, WHICH RECEIVE RUNOFF FROM ANY OF THE DISTURBED AREAS. THE CONTRACTOR SHALL CLEAN, REMOVE SEDIMENT, AND/OR REPLACE STORM DRAIN INLET PROTECTION DEVICES ON A ROUTINE BASIS SUCH THAT THE DEVICES ARE FULLY FUNCTIONAL FOR THE NEXT RAIN EVENT.
 - SEDIMENT DEPOSITED IN AND/OR PLUGGING THE DRAINAGE SYSTEM(S) SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND LEGALLY DISPOSED.
 - HAY BALES OR FILTER FABRIC WRAPPED GRATES ARE NOT ALLOWED FOR INLET PROTECTION.
 - SILT FENCE OR FABRIC PLACED UNDER THE GRATE IS NOT AN APPROVED FORM OF INLET PROTECTION.
 - THE CONTRACTOR SHALL LOCATE SOIL OR DIRT STOCKPILES NO LESS THAN 25 FEET FROM ANY PUBLIC OR PRIVATE ROADWAY OR DRAINAGE CHANNEL. IF REMAINING FOR MORE THAN 48 HOURS, STABILIZE THE STOCKPILES BY MULCHING, VEGETATIVE COVER, TARPS, AND/OR OTHER MEANS. CONTROL EROSION FROM ALL STOCKPILES BY PLACING SILT BARRIERS AROUND THE PILES. TEMPORARY STOCKPILES LOCATED ON PAVED SURFACES MUST BE NO LESS THAN TWO (2) FEET FROM THE DRAINAGE/GUTTER LINE AND SHALL BE COVERED IF LEFT MORE THAN 24 HOURS.
 - THE CONTRACTOR SHALL MAINTAIN ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES IN PLACE UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED AND ACCEPTED. INSPECT TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES ON A DAILY BASIS AND REPLACE DETERIORATED, DAMAGED, OR ROTTED EROSION CONTROL DEVICES IMMEDIATELY.
 - THE CONTRACTOR SHALL TEMPORARILY AND/OR PERMANENTLY STABILIZE ALL CONSTRUCTION AREAS WHICH HAVE UNDERGONE FINAL GRADING, AND ALL AREAS IN WHICH GRADING AND/OR SITE BUILDING CONSTRUCTION OPERATIONS ARE NOT ACTIVELY UNDERWAY AGAINST EROSION DUE TO RAIN, WIND, AND/OR RUNNING WATER WITHIN SEVEN (7) DAYS.
 - APPROPRIATE MNDOT SEEDING MIXTURES SHALL BE UTILIZED, UNLESS OTHERWISE NOTED.
 - USE SEED AND MULCH, EROSION CONTROL MATTING, AND/OR SODDING AND STAKING IN GREEN SPACE AREAS.
 - ANY USE OF EROSION CONTROL BLANKET MUST BE FULLY BIODEGRADABLE WITH LOOSE-WEAVE NETTING (OR NETLESS).
 - REMOVE ALL TEMPORARY SYNTHETIC, STRUCTURAL, NON-BIODEGRADABLE EROSION AND SEDIMENT CONTROL DEVICES AFTER THE SITE HAS UNDERGONE FINAL STABILIZATION WITH PERMANENT VEGETATION ESTABLISHMENT.
 - FINAL STABILIZATION FOR PURPOSES OF THIS REMOVAL IS AT LEAST 75 PERCENT ESTABLISHED COVER OVER ALL DENUDED, DISTURBED, ETC. AREAS.
 - ALL EXPOSED SOIL AREAS SHALL BE STABILIZED PRIOR TO THE ONSET OF WINTER CONDITIONS. ANY WORK STILL BEING PERFORMED WILL BE SNOW MULCHED AND/OR SNOW BLANKETED WITH SNOW SEEDING.
 - APPROPRIATE MNDOT SEEDING MIXTURES SHALL BE UTILIZED, UNLESS OTHERWISE NOTED.
 - READY MIXED CONCRETE AND CONCRETE BATCH/MIX PLANTS ARE PROHIBITED WITHIN THE PUBLIC RIGHT-OF-WAY (ROW). ALL CONCRETE RELATED PRODUCTION, CLEANING, AND MIXING ACTIVITIES SHALL BE DONE IN THE DESIGNATED CONCRETE MIXING/WASHOUT LOCATIONS AS DETERMINED BY THE (GENERAL) CONTRACTOR.
 - UNDER NO CIRCUMSTANCES MAY WASHOUT WATER DRAIN INTO THE PUBLIC RIGHT-OF-WAY (ROW) AND/OR INTO ANY PUBLIC AND/OR PRIVATE STORM DRAIN CONVEYANCE.
 - DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION AND SEDIMENT CONTROL MEASURES TO PREVENT EROSION. CHANGES TO THE APPROVED EROSION AND SEDIMENT CONTROL PLAN (WHEN UNDER ONE (1) ACRE DISTURBED) OR THE STORMWATER POLLUTION PREVENTION PLANS (SWPPP) SHEETS MUST BE APPROVED, IN WRITING, BY THE EROSION CONTROL INSPECTOR PRIOR TO IMPLEMENTATION.
 - THE CONTRACTOR SHALL PROVIDE INSTALLATION INSTRUCTIONS, DETAILS, ETC. FOR ALL PROPOSED ALTERNATE TYPE DEVICES.
 - ALL CONSTRUCTION AREAS SHALL BE PROTECTED AT THE END OF EACH WORKING DAY, THIS INCLUDES, BUT NOT LIMITED TO: BACKFILLING OF AND/OR PROTECTING TRENCHES FOR UTILITY CONSTRUCTION; PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROADWAY REPLACEMENT; CLOSING AND LOCKING GATES AND/OR OPENINGS IN TEMPORARY FENCING.
 - ADJACENT STREETS, SIDEWALKS/TRAILS, AND/OR ALLEYS MUST BE SWEEPED TO KEEP THEM FREE OF SEDIMENT, DEBRIS, ETC.
 - CONTRACTOR MUST MONITOR CONDITIONS AND SWEEP AS NEEDED OR WITHIN 24 HOURS OF NOTICE BY THE CITY/COUNTY, THE ENGINEER, OR THE OWNER.



NOTE: SILT FENCE SHALL FOLLOW MNDOT SPEC. SECTION 3886.

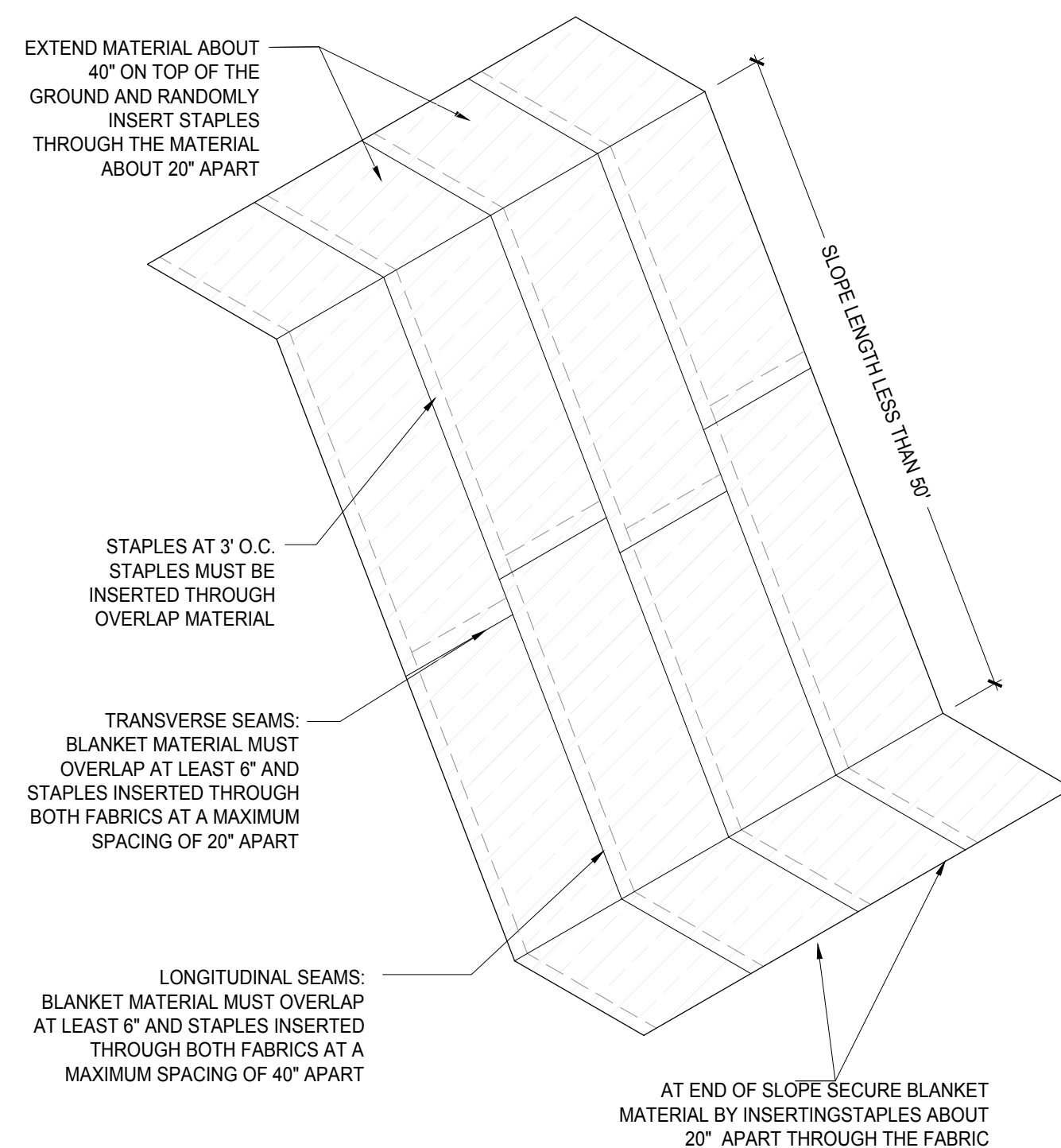
FIGURE 1: TYPICAL INSTALLATION FOR SILT FENCE

DESIGN RECOMMENDATIONS

- SILT FENCES SHOULD BE INSTALLED ON THE CONTOUR (AS OPPOSED TO UP AND DOWN A HILL) AND CONSTRUCTED SO THAT FLOW CANNOT BYPASS THE ENDS.
- ENSURE THAT THE DRAINAGE AREA IS NO GREATER THAN 1/4 ACRE PER 100 FT OF FENCE.
- MAKE THE FENCE STABLE FOR THE 10-YEAR PEAK STORM RUNOFF.
- WHERE ALL RUNOFF IS TO BE STORED BEHIND THE SILT FENCE, ENSURE THAT THE MAXIMUM SLOPE LENGTH BEHIND THE FENCE DOES NOT EXCEED THE SPECIFICATIONS SHOWN IN TABLE.

TABLE 1: MAXIMUM SLOPE LENGTH AND SLOPE FOR WHICH SILT FENCE IS APPLICABLE

SLOPE (H:V)	%	BY CALCULATION		BY ACCEPTED DESIGN PRACTICES
		SILT FENCE STORAGE EQUALS 2 FT FOR A 100-YEAR EVENT	SILT FENCE STORAGE EQUALS 2 FT FOR A 2-YEAR EVENT OR 3 FT FOR A 100-YEAR EVENT	MAXIMUM SLOPE LENGTH
100:1	1%	400 FT	900 FT	100 FT
50:1	2%	200 FT	450 FT	75 FT
25:1	4%	100 FT	225 FT	75 FT
20:1	5%	80 FT	180 FT	75-50
17:1	6%	67 FT	150 FT	50 FT
12.5:1	8%	50 FT	112 FT	50 FT
10:1	10%	40 FT	90 FT	50-25 FT
5:1	20%	20 FT	45 FT	25-15 FT
4:1	25%	16 FT	36 FT	15 FT
3:1	33%	12 FT	27 FT	15 FT
2:1	50%	8 FT	18 FT	15 FT

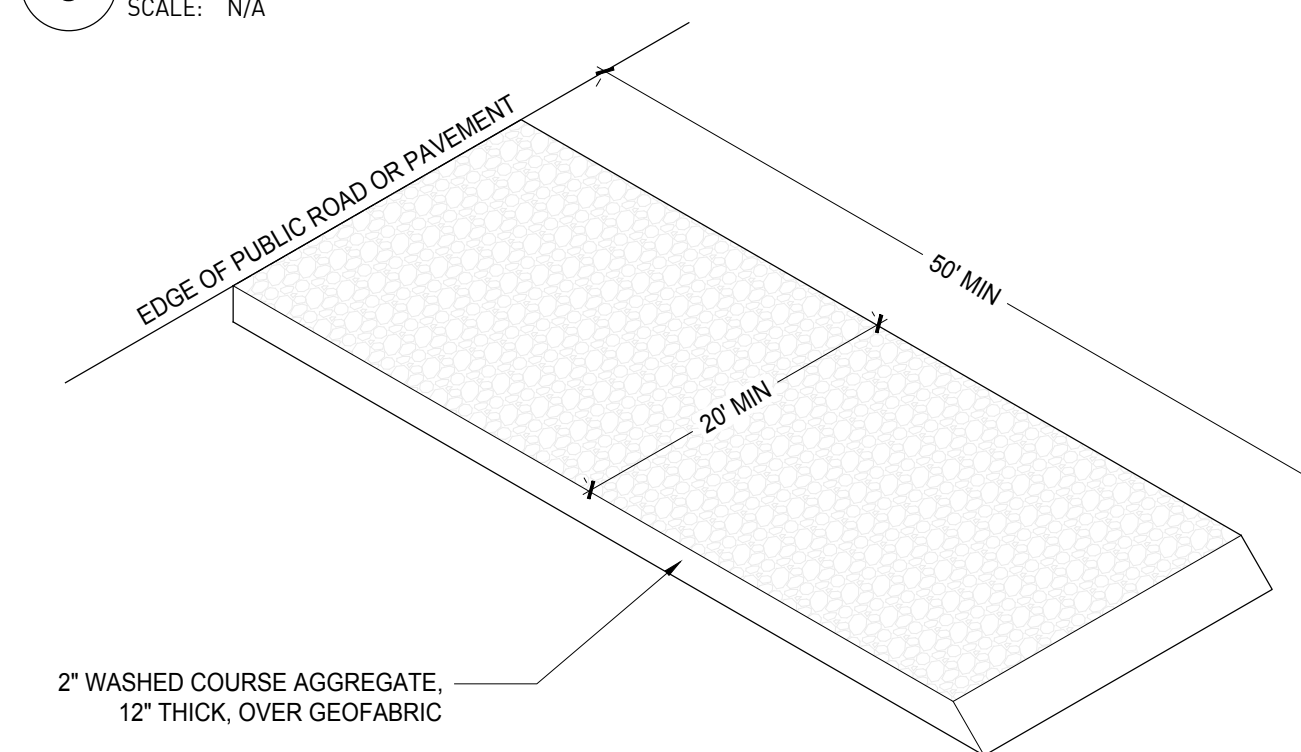


NOTES:

- EROSION CONTROL BLANKET TO BE CATEGORY 4-COCONUT 2S FOR SLOPES GREATER THAN 5:1 AND SIDES AND BOTTOM OF ALL DRAINAGE SWALES AND PONDING AREAS AND CATEGORY 2-STRAW 2S FOR ALL SLOPES LESS THAN 5:1 PER MNDOT SPEC. SECTION 3885.
- INSTALL PER MNDOT SPEC. SECTION 2575.

3 EROSION CONTROL MAT INSTALLATION

SCALE: N/A



4 GRAVEL CONSTRUCTION ENTRANCE DETAIL

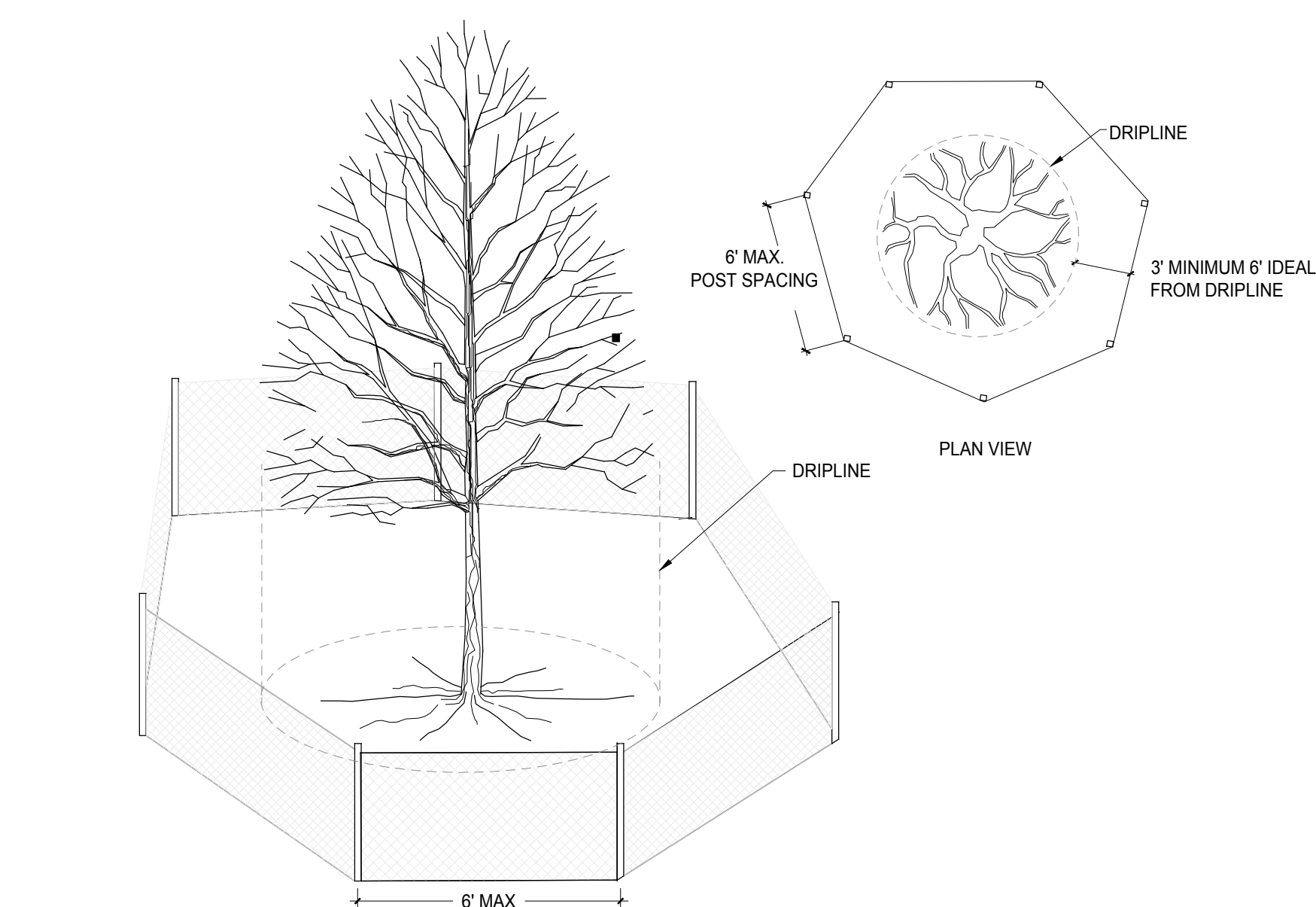
SCALE: N/A

1 SILT FENCE INSTALLATION

SCALE: N/A

2 EROSION CONTROL BLANKET INSTALLATION

SCALE: N/A

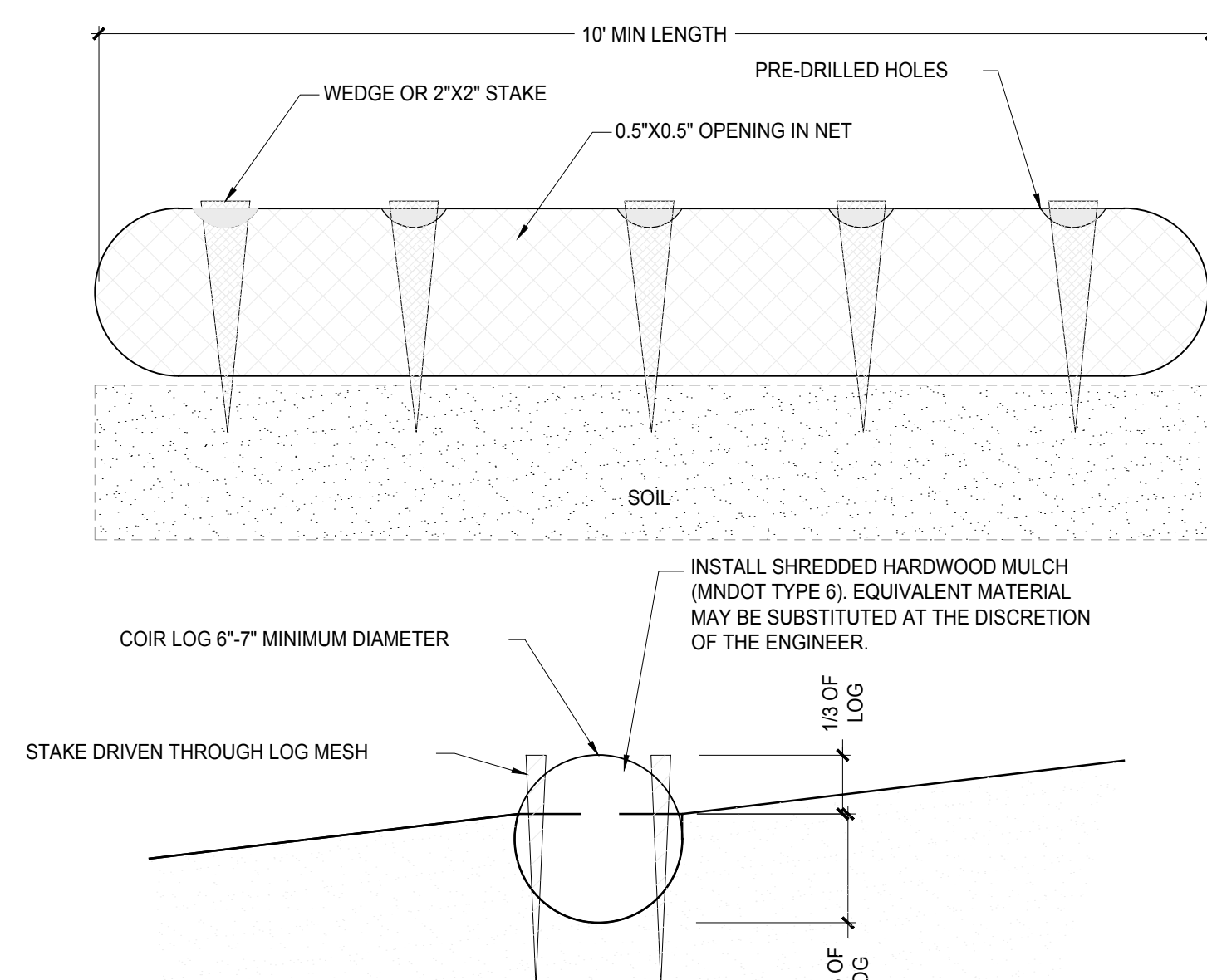


NOTES:

- ALL TREE PROTECTION FENCING AND EROSION CONTROL FENCING SHALL BE INSTALLED ACCORDING TO THE PLANS PRIOR TO ANY DEMOLITION. AFTER DEMOLITION OR AS NECESSARY, TREE PROTECTION FENCING MAY BE RELOCATED WITH APPROVAL FROM THE LANDSCAPE ARCHITECT. ALL TREE PROTECTION FENCING AND EROSION CONTROL DEVICES SHALL BE MAINTAINED FOR THE DURATION OF THE CONSTRUCTION PERIOD.
- TREE PROTECTION FENCING SHALL CONSIST OF TEMPORARY METAL WIRE CHAIN LINK MESH FENCING OR APPROVED EQUAL.
- CONTRACTOR SHALL NOT STORE ANY MATERIALS OR PARK ANY VEHICLES IN TREE PROTECTION ZONES. THE FENCE SHALL PREVENT TRAFFIC MOVEMENT AND THE PLACEMENT OF TEMPORARY FACILITIES, EQUIPMENT, STOCKPILES AND SUPPLIES FROM HARMING VEGETATION WITHIN THE LIMITS OF PROTECTION.
- THE CONTRACTOR SHALL CLEANLY CUT ALL ROOTS EXPOSED BY GRADING AS DIRECTED BY THE LANDSCAPE ARCHITECT.
- THE CONTRACTOR SHALL USE DESIGNATED CONSTRUCTION ENTRANCES AND STAGING AREAS.

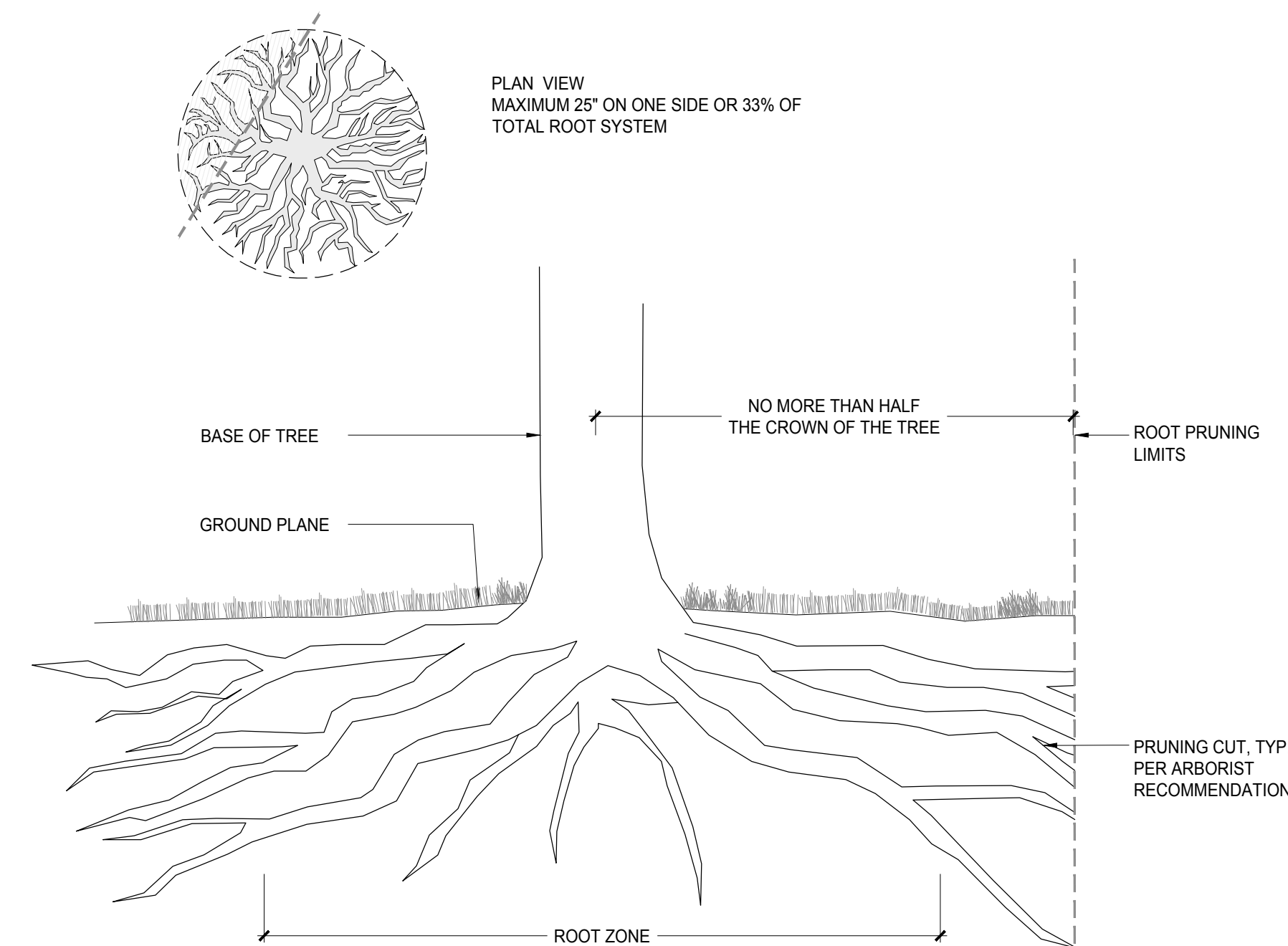
5 TREE PROTECTION FENCING INSTALLATION

SCALE: N/A



6 BIOLOG INSTALLATION

SCALE: N/A



7 ROOT PRUNING DETAIL

SCALE: N/A

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EROSION CONTROL AND TREE PROTECTION DETAILS

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