

	Date2-18-2021DesignedNAPDrawnMSN	COVER	SUMMERGA 17305 CEDAR AVENUE LAKEVILLE, MINNESO

COVER	G1
LEGEND	G2
GRADING PLAN	G3-G6
EROSION CONTROL & SEEDING PLAN	<b>G</b> 7
GRADING DETAILS	G8-G13
LANDSCAPE PLAN	L1-L2

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		LEGEND	1
	UTILITY LINES	FUTURE	
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			CATCH BASIN BEEHIVE
	•		STORM MANHOLE
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ohoh	SITE LINES	oh——oh——	OVERHEAD UTILITY L
EXISTING	PROPOSED	FUTURE	DESCRIPTION
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			WHITE PAVEMENT ST PHASE LINE
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			WETLAND BUFFER TREE LINE
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	••		TYPE III BARRICADE LIGHT POLE
्र ————————————————————————————————————	\$\$ ~+		STREET SIGNS
			PEDESTRIAN RAMP
	SURVEY LINES		
EXISTING		FUTURE	DESCRIPTION
			BOUNDARY RIGHT OF WAY
			LOT LINE
			EASEMENT SET BACK LINE
			SECTION LINE RESTRICTED ACCESS
	ا ۱ ⊦	ATCH PATTERNS	
	GRAVEL SURFACE	* * * * * * *	WETLAND
	BITUMINOUS SURFACE	$\begin{array}{cccc} & & & & \\ & & & & \\ \psi & & \psi & & \\ \psi & & \psi & & \psi \end{array}$	
	CONCRETE SURFACE	+ + + + + + + + + + + + + + + + + + +	WETLAND MITIGAT
		* * * * * * * * * * * * * * * * *	PERMANENT TURF
	SELECT BACKFILL MATE	I     I     I     I     I       I     I     I     I     I	PERMANENT WET
	EROSION CONTROL BLA		
$\mathbf{I}$			

	TOPOGRAPHIC SYMBOLS
	CATCH BASIN
TARY & WATERMAIN PLANS)	A FLARED END SECTION ⋈ GATE VALVE
1 SEWER PLANS)	ිර HYDRANT මී WATER SERVICE
	WELL WATER WELL
	° CLEANOUT
	<ul> <li>⊕ HAND HOLE</li> <li>○ MANHOLE OTHER THAN SANITARY OR STORM</li> </ul>
WATERMAIN PLANS)	O SANITARY OR STORM MANHOLE
ER PLANS)	¥ LAWN SPRINKLER VALVE উ৺ LAWN SPRINKLER HEAD
	UTILITY POLE
	TTRANSFORMER BOXFIFIBER OPTIC BOX
	ELECTRIC BOX
Y & WATERMAIN PLANS) EWER PLANS)	ې LIGHT POLE
	SEMAPHORE
	CABLE BOX
-	CAST IRON MONUMENT     FOUND IRON PIPE
LINE TIC LINE	JUDICIAL LAND MARK
ELINE	
NE LINES ON LINE	⊕— FLAG POLE ⊕ TEST HOLE
5	에 MAILBOX 아 SIGN
	• BOLLARD
& GUTTER	
IER	
R	CONIFEROUS TREE
RIPING (SINGLE/DOUBLE)	SHRUB / BUSH
NE /ATION /W SED_WETLAND_LINE	EROSION & SEDIMENT CONTROL
SED WETLAND LINE	PERIMETER EROSION CONTROL FENCE.
JNDARY	INSTALL BEFORE START OF GRADING
SIGN	EROSION CONTROL AT BACK OF CURB. TO BE INSTALLED AFTER COMPLETION
N	OF CURB CONSTRUCTION.
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	SUMPED RIP RAP PERMANENT ENERGY DISSIPATER, INSTALL WITHIN 24 HOURS AFTER CONNECTION TO A SURFACE WATER.
	DISSIPATER, INSTALL WITHIN 24 HOURS AFTER CONNECTION TO A SURFACE WATER. STABILIZED EMERGENCY OVERFLOW (FLEXAMAT-SEE SHEET 23)
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BUFFER	DISSIPATER, INSTALL WITHIN 24 HOURS AFTER CONNECTION TO A SURFACE WATER.         DISSIPATER, INSTALL WITHIN 24 HOURS AFTER CONNECTION TO A SURFACE WATER.         DISSIPATER, INSTALL WITHIN 7 A SURFACE WATER.         DISSIPATER, INSTALL WITHIN 7 DAYS OF GRADING COMPLETION         Image: Completion of the second sec
	DISSIPATER, INSTALL WITHIN 24 HOURS AFTER CONNECTION TO A SURFACE WATER.         STABILIZED EMERGENCY OVERFLOW (FLEXAMAT-SEE SHEET 23)         Image: Stabiliz
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4	DISSIPATER, INSTALL WITHIN 24 HOURS AFTER CONNECTION TO A SURFACE WATER.         Image: Stabilized Emergency overflow (FLEXAMAT-SEE SHEET 23)         Image: Stabilized Emergency overflow (Stabilized Emergency overflow)         Image: Stabilized Emergency overflow overflow         Image: Stabilized Emergency overflow overflow         Image: Stabilized Emergency overflow overflow overflow overflow         Image: Stabilized Emergency overflow overflow overflow

		Date2-18-2021DesignedNAPDrawnMSN	LEGEND	SUMMERG 17305 CEDAR AVEN LAKEVILLE, MINNES
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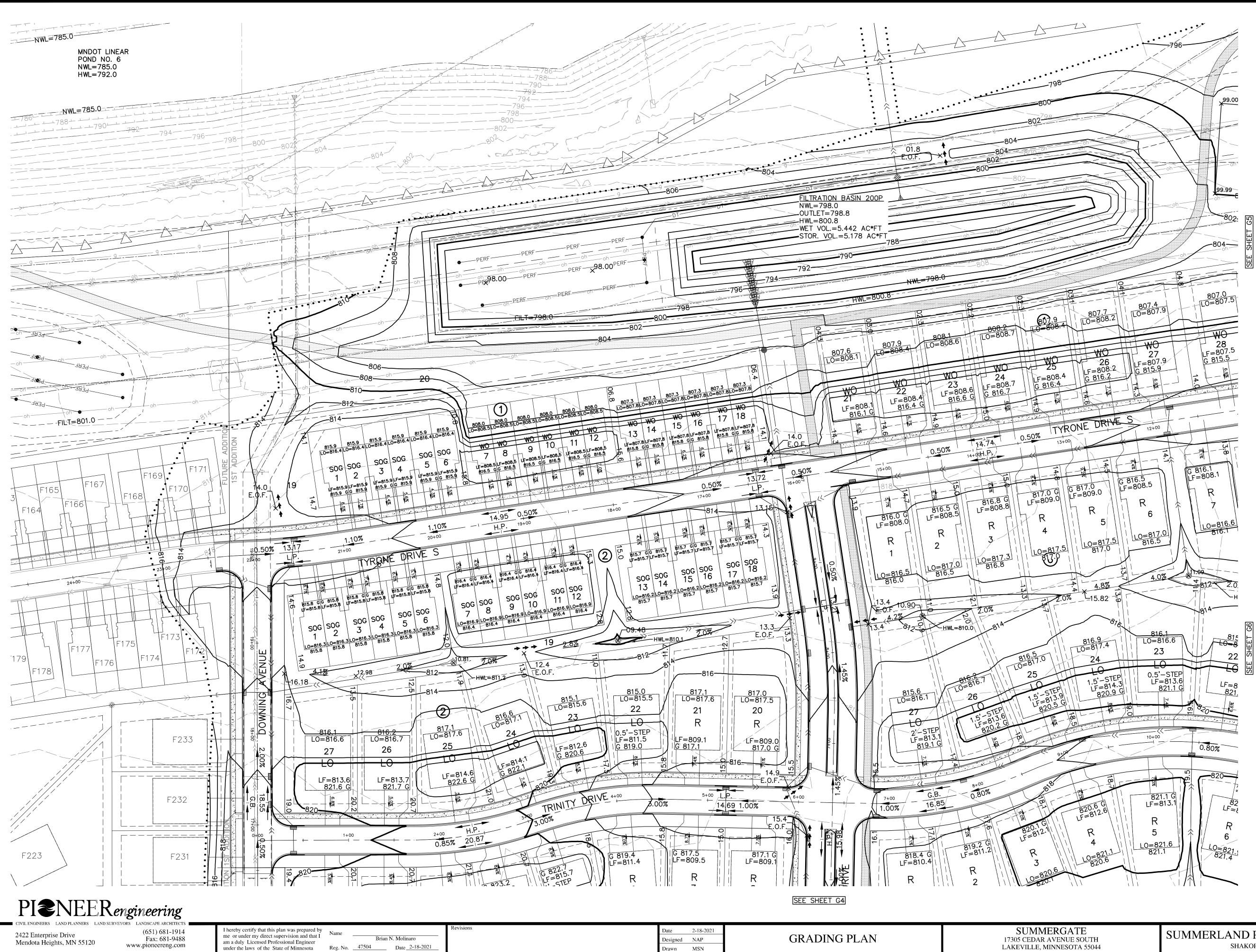
A	BBREVIATIONS
A	ALGEBRAIC DIFFERENCE
B-B BV	BACK TO BACK BUTTERFLY VALVE
BOC	BACK OF CURB
BFE BMP	BASE FLOOD ELEVATION BEST MANAGEMENT PRACTICE
ę	CENTER LINE
CB CBMH	CATCHBASIN CATCHBASIN MANHOLE
СМР	CORRUGATED METAL PIPE
CO CS	CLEAN OUT CURB STOP
DIP DT	DUCTILE IRON PIPE DRAINTILE
	ELEVATION
EOF EX	EMERGENCY OVERFLOW EXISTING
FES	FLARED END SECTION
F—F FM	FACE TO FACE FORCEMAIN
GB	GRADE BREAK
GND GV	GROUND GATE VALVE
HP HYD	HIGH POINT HYDRANT
HWL	HIGH WATER LEVEL
INV K	INVERT CURVE COEFFICIENT
L	LENGTH
LF LO	LOWEST FLOOR LOOKOUT
LO LP	LOWEST OPENING LIQUID PETROLEUM
LP	LOW POINT
MH PC	MANHOLE POINT OF CURVATURE
PCC Pl	POINT OF COMPOUND CURVATURE POINT OF INTERSECTION
ዊ	PROPERTY LINE
PRC PVT	POINT OF REVERSE CURVATURE POINT OF TANGENCY
PVC PVC	POINT OF VERTICAL CURVATURE POLYVINYL CHLORIDE PIPE
PVI	POINT OF VERTICAL INTERSECTION
R R	RADIUS RAMBLER
RCP ROW	REINFORCED CONCRETE PIPE RIGHT OF WAY
SSWR	SANITARY SEWER
STA STRM	STATION STORM SEWER
SWPPP	STORM WATER POLLUTION PROTECTION PLAN
TNH TYP	TOP NUT HYDRANT TYPICAL
WM WO	WATER MAIN WALKOUT
[]	LOT INFORMATION
29.0	28.0
DRAINAGE & UTILITY 29.0 _ EASEMENT	
FINISHED GROUND	3 - I BLOCK NO.
LOWEST OPENING	
ELEVATION	7 - LOT NO.
STEP HEIGHT     (IF REQUIRED)	931.5 HOUSE TYPES R — RAMBLER OR SPLIT ENTRY
LOWEST FLOOR	LO=929.0   LO — RAMBLER LOOKOUT OR SPLIT ENTRY WALKOUT
ELEVATION	WO — RAMBLER WALKOUT
GARAGE ELEVATION	SE - SPILT ENTRY SEWO - SPLIT ENTRY WALK OUT
RECOMMENDED GARAGE SIDE	G 37.0   SLO — SIDE LOOKOUT
FINISHED ELEVATION	
35.5	34.5
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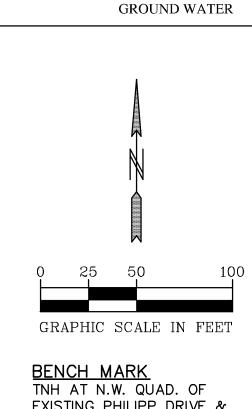
SUMMERLAND PLACE 1ST ADDITION SHAKOPEE, MINNESOTA

01-ENG-119035-SHEET-GRAD-LGND

G2 of 13



Date 2-18-2021		SUMM
Designed NAP	GRADING PLAN	17305 CEDAR 4
Drawn MSN		LAKEVILLE, M



3' + HWL

1.5' + EOF

2' + HWL

2' + HISTORIC

**GROUND HWL** 

4' + OBSERVED

EXISTING PHILIPP DRIVE & PHILIPP WAY INTERSECTION EL=820.14 01-ENG-119035-SHEET-GRAD

SUMMERLAND PLACE 1ST ADDITION SHAKOPEE, MINNESOTA

G3 of 13

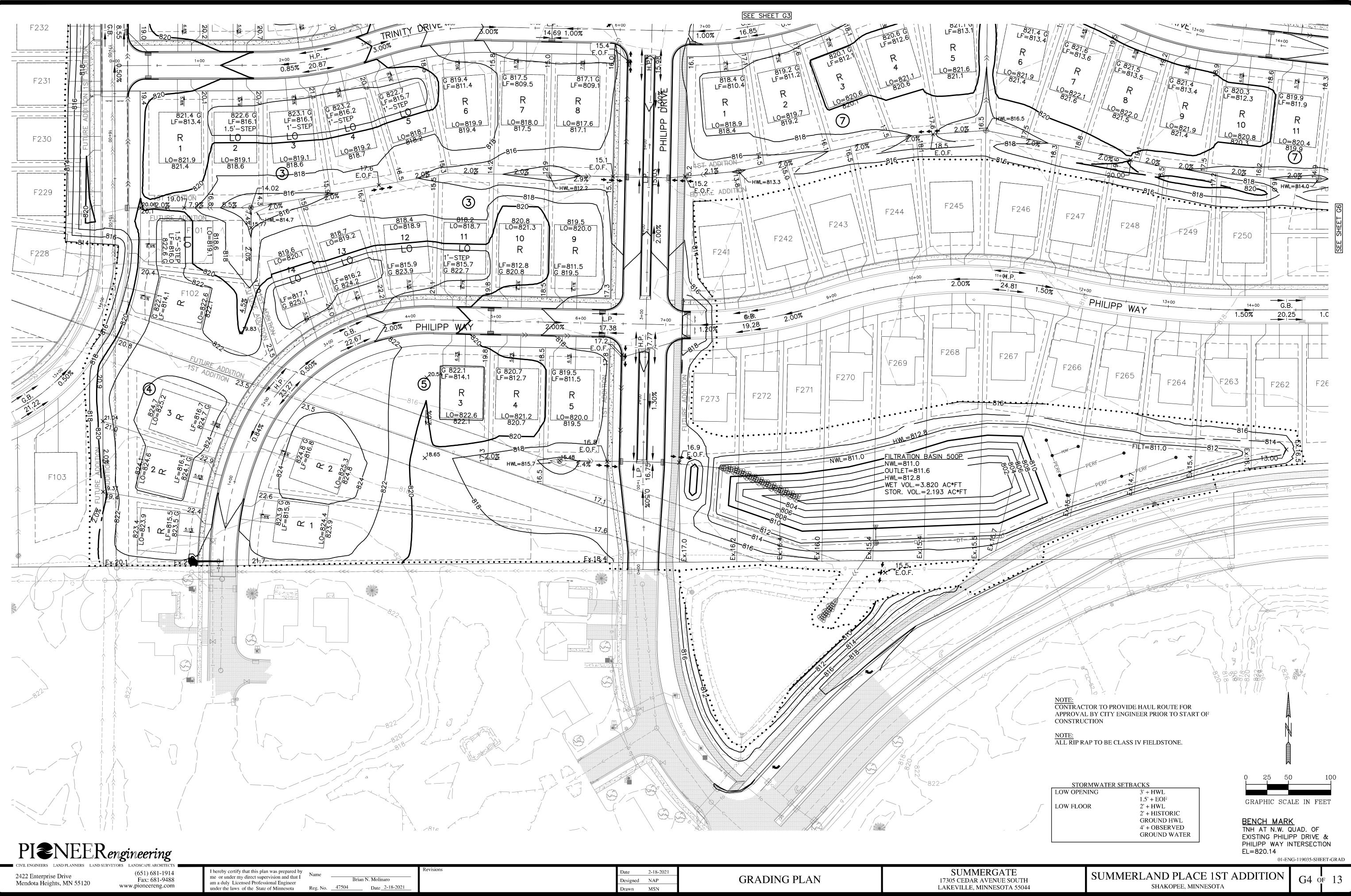
STORMWATER SETBACKS

LOW OPENING

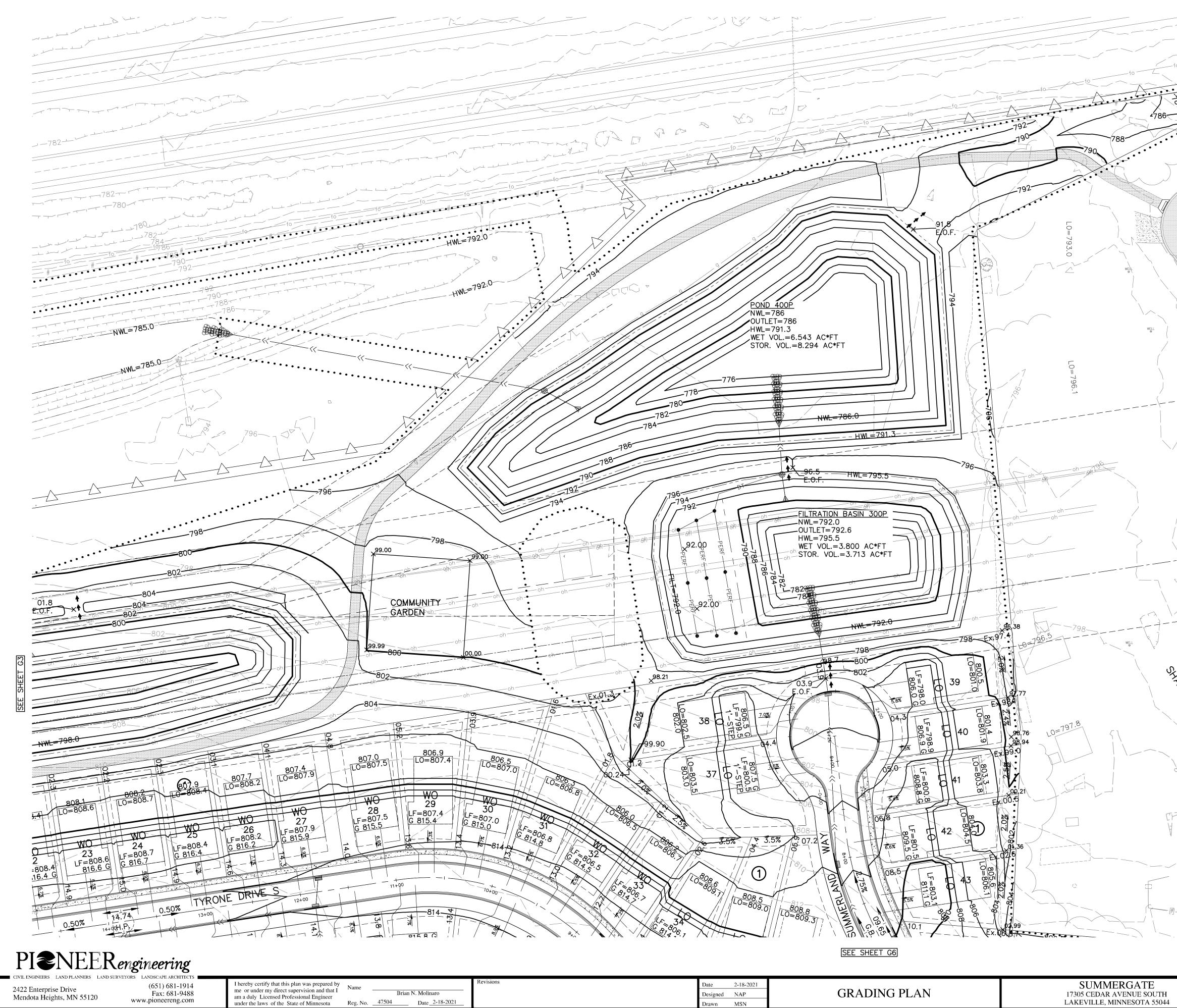
LOW FLOOR

NOTE: ALL RIP RAP TO BE CLASS IV FIELDSTONE.

NOTE: CONTRACTOR TO PROVIDE HAUL ROUTE FOR APPROVAL BY CITY ENGINEER PRIOR TO START OF CONSTRUCTION



Date2-18-2021DesignedNAPDrawnMSN	GRADING PLAN	SUMMERGA 17305 CEDAR AVENU LAKEVILLE, MINNES



SUMMERGA 17305 CEDAR AVENUE LAKEVILLE, MINNESC **GRADING PLAN** Designed NAP MSN rawn

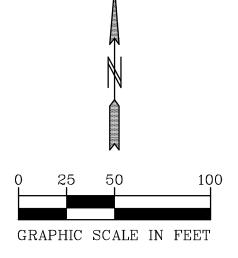
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SHARON PARKWAY

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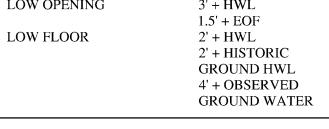
01-ENG-119035-SHEET-GRAD G5 of 13

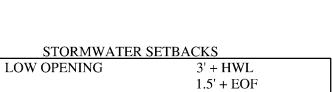


BENCH MARK TNH AT N.W. QUAD. OF EXISTING PHILIPP DRIVE &

PHILIPP WAY INTERSECTION

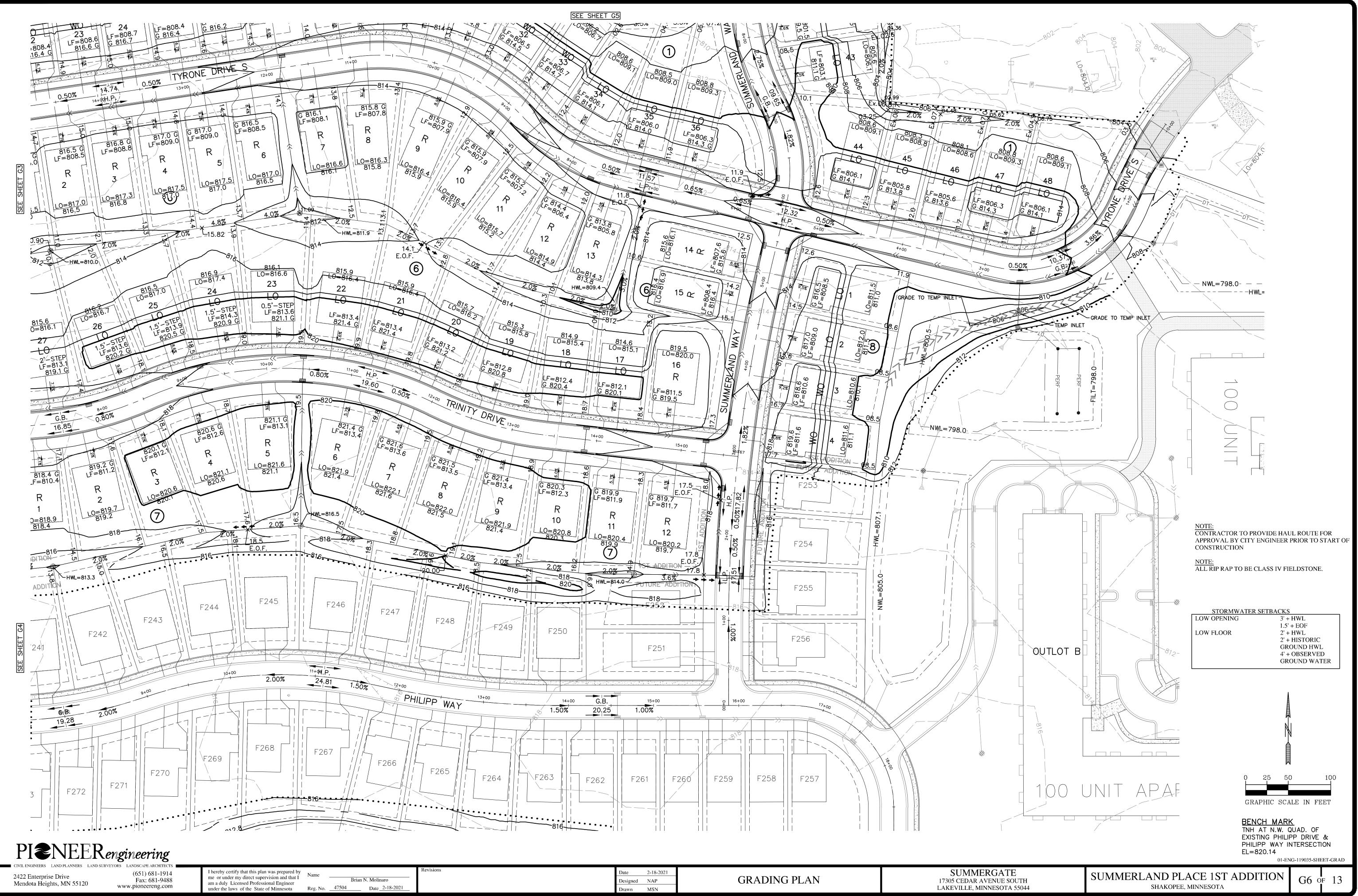
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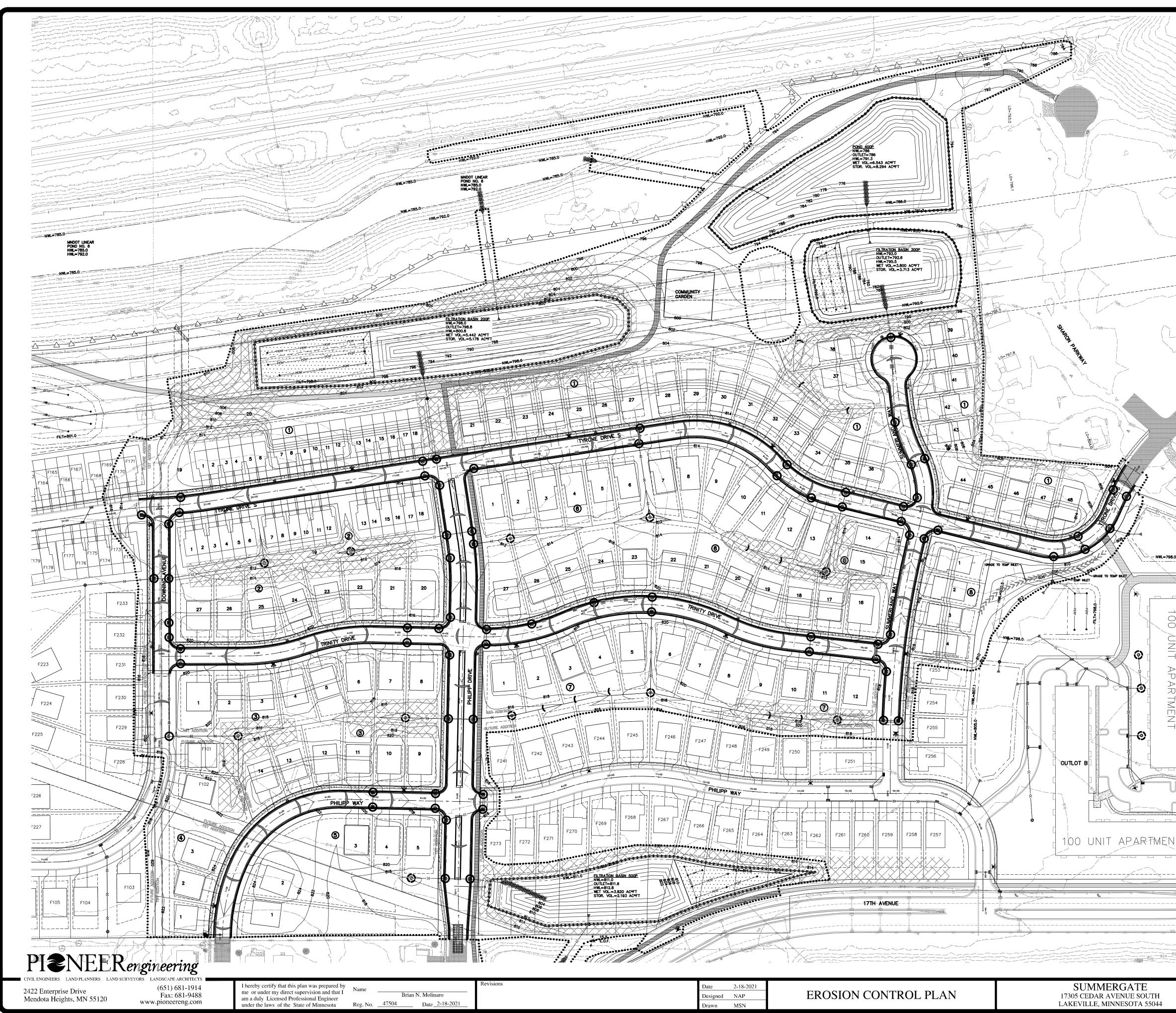


NOTE: ALL RIP RAP TO BE CLASS IV FIELDSTONE.

CONTRACTOR TO PROVIDE HAUL ROUTE FOR APPROVAL BY CITY ENGINEER PRIOR TO START OF CONSTRUCTION



Date2-18-2021DesignedNAPDrawnMSN	GRADING PLAN	SUMMERG 17305 CEDAR AVENU LAKEVILLE, MINNES
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SUMMERGATE 17305 CEDAR AVENUE SOUTH

	LEGEND
	ROCK CONSTRUCTION ENTRANCE INSTALL BEFORE START OF GRADING
•••••	PERIMETER EROSION CONTROL FENCE. INSTALL BEFORE START OF GRADING
	SECONDARY EROSION CONTROL FENCE. TO BE INSTALLED 48 HOURS AFTER COMPLETION OF GRADING.
	2' SOD OR EROSION CONTROL FENCE AT BACK OF CURB. TO BE INSTALLED AFTER COMPLETION OF SIDEWALK CONSTRUCTION.
<b>—»—</b>	SUMPED RIP RAP PERMANENT ENERGY DISSIPATER, INSTALL WITHIN 24 HOURS AFTER CONNECTION TO A SURFACE WATER.
	CATCH BASIN INLET PROTECTION TO BE INSTALLED AFTER 1ST LIFT OF BITUMINOUS.
$\bigcirc$	CATCH BASIN INLET PROTECTION TO BE INSTALLED WITH CATCH BASIN GRATE.
$\widehat{}$	STRAW BIO ROLLS. INSTALL WITHIN 7 DAYS OF GRADING COMPLETION OR BEFORE 1ST RAINFALL EVENT WHICHEVER IS FIRST
	ROCK BERM. INSTALL WITHIN 7 DAYS OF GRADING COMPLETION OR BEFORE 1ST RAINFALL EVENT WHICHEVER IS FIRST
	STABILIZED EMERGENCY OVERFLOW
	MNDOT CAT 20 EROSION CONTROL BLANKET. INSTALL WITHIN 7 DAYS OF GRADING COMPLETION
· · · · · · · · · · · · · · · · · · ·	FILTRATION AREA

- MNDOT MIX 22–111 @ 40 LBS. PER ACRE OR APPROVED EQUAL. DOUBLE SEED RATE FOR DORMANT SEEDING AFTER NOVEMBER 1ST. • MULCH SHALL BE MNDOT TYPE 3 @ 2 TONS PER ACRE OR APPROVED
- EQUAL AND DISK ANCHORED IN PLACE OR APPROVED EQUAL, INSTALLED TO MINIMUM 90% COVERAGE OF THE SURFACE AREA DISTURBED.

• TYPE 1 FERTILIZER, 10-10-20 @ 200 LBS. PER ACRE

PERMANENT TURF RESTORATION SHALL BE DONE IN ACCORDANCE WITH MNDOT 2575 & 3876 CONSISTING OF:

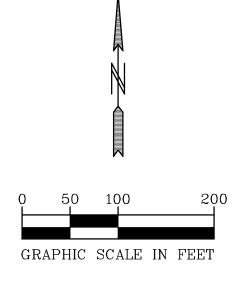
- MNDOT MIXTURE 25-141 AT 75 POUNDS PER ACRE. • MULCH SHALL BE MNDOT TYPE 3 @ 2 TONS PER ACRE OR APPROVED EQUAL AND DISK ANCHORED IN PLACE OR APPROVED EQUAL, INSTALLED TO MINIMUM 90% COVERAGE OF THE SURFACE AREA DISTURBED. • TYPE 3 FERTILIZER, 22-5-10 80% W.I.N @ 350 LBS PER ACRE.
- SEE SHEET L3-3 FOR ADDITIONAL BASIN SEEDING DETAILS

PERMANENT BASIN SEEDING SHALL BE DONE IN ACCORDANCE WITH MNDOT 2575 & 3876 CONSISTING OF:

- WET BASIN BENCH/(IN)FILTRATION BASIN: MINNESOTA STATE SEED MIXTURE 33-261 (STORMWATER SOUTH AND WEST) AT 35 POUNDS PER ACRE.
- ABOVE BASIN BENCH TO HIGH WATER LEVEL: MINNESOTA STATE SEED MIXTURE 35-241 (MESIC PRAIRIE GENERAL) AT 36.5 POUNDS PER ACRE.
- MULCH SHALL BE MNDOT 3882, TYPE 3 @ 2 TONS PER ACRE OR APPROVED EQUAL AND DISK ANCHORED IN PLACE OR APPROVED
- EQUAL. • MNDOT 3881, TYPE 4 NATURAL-BASED FERTILIZER, 18–1–8 @ 120 LBS PER ACRE OR 17–10–7 @ 150 LBS PER ACRE.

UPLAND/NATURAL AREA SEEDING SHALL BE DONE IN ACCORDANCE TO MNDOT 2575 & 3876; ĆONSISTING OF:

- MINNESOTA STATE SEED MIXTURE 35-621 (DRY PRAIRIE SOUTHEAST) AT 11.0 PUNDS PER ACRE. MULCH SHALL BE MNDOT 3882, TYPE 3 @ 2 TONS PER ACRE OR APPROVED EQUAL AND DISK ANCHORED N PLACE OR APPROVED
- EQUAL.
- MNDOT 3881, TYPE 4 NATURAL-BASED FERTILIZER, 18-1-8 @ 120 LBS PER ACRE OR 17-10-7 @ 150 LBS PER ACRE



BENCH MARK TNH AT N.W. QUAD. OF EXISTING PHILIPP DRIVE & PHILIPP WAY INTERSECTION EL=820.14 01-ENG-119035-SHEET-GRAD-EROS

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SUMMERLAND PLACE 1ST ADDITION SHAKOPEE, MINNESOTA

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GRADING SEQUENCE

- INSTALL ROCK CONSTRUCTION ENTRANCE
- INSTALL PERIMETER SEDIMENT CONTROL DEVICES (SILT FENCE). 3. STRIP TOPSOIL, STOCKPILE AND STABILIZE IN BERM FOR FUTURE SPREADING.
- 4. DIG TEMPORARY SEDIMENT BASIN, BASIN TO BE 1800 CF/ACRE OF AREA STRIPPED. CLEAN TEMP BASIN ONCE 50% FULL. 5. ALL SOILS WILL BE COMPACTED PER SPECIFICATIONS.
- . MAINTAIN DRAINAGE DURING GRADING OPERATION TO TEMPORARY SEDIMENT BASIN.
- COMPLETE SITE GRADING PER PLAN.
- 8. RESPREAD TOPSOIL MAINTAIN A MINIMUM OF 4" DEPTH. 9. MAINTAIN DRAINAGE TO TEMP SEDIMENT BASIN UNTIL NEXT PHASE BEGINS.
- 10. STABILIZE DENUDED AREAS AND STOCKPILES WITHIN TIME FRAME LISTED IN EROSION PREVENTION PRACTICES

GENERAL NOTES

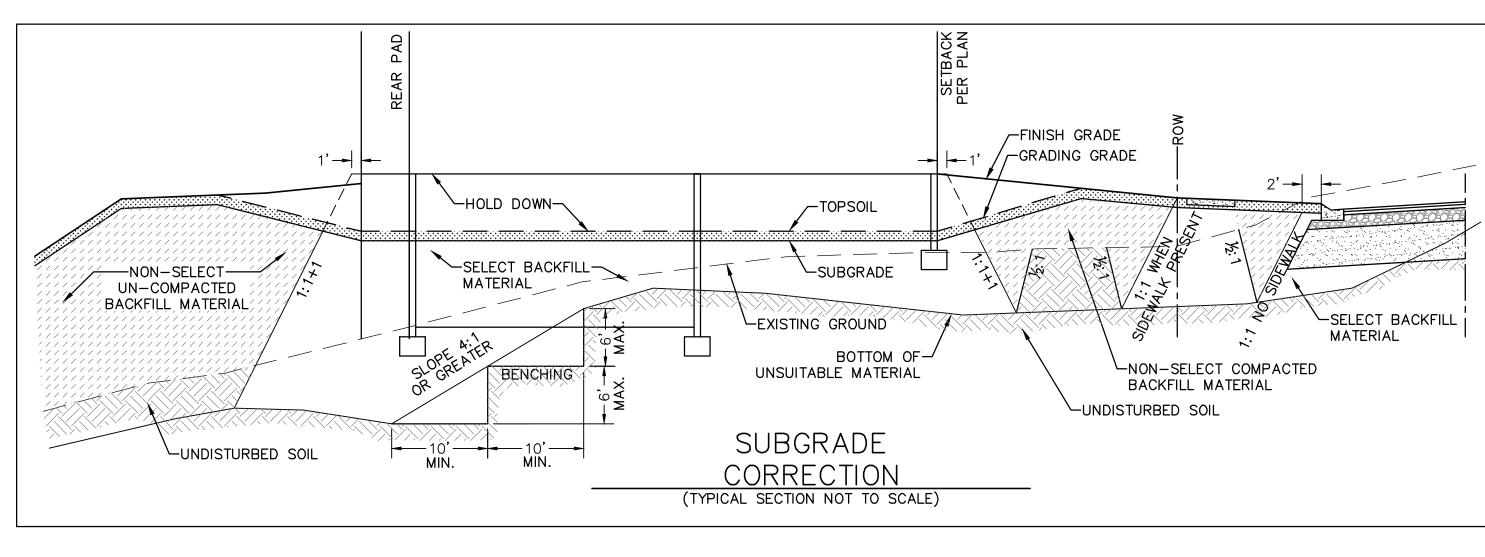
- 1. THE STORM WATER POLLUTION PREVENTION MANAGER SHALL BE A PERSON TRAINED, KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL BMPS WHO WILL OVER SEE THE IMPLEMENTATION OF THE SWPPP AND THE INSTALLATION, INSPECTION AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BMPS BEFORE AND DURING CONSTRUCTION.
- 2. CONTRACTOR TO ADHERE TO ALL REQUIREMENTS OF THE MINNESOTA POLLUTION CONTROL AGENCY N.P.D.E.S. PERMIT, INCLUDING THE REQUIREMENT TO MINIMIZE THE AREA DISTURBED BY GRADING AT ANY GIVEN TIME AND TO COMPLETE TURF RESTORATION WITHIN THE TIME REQUIRED BY THE PERMIT AFTER TEMPORARY CEASING GRADING OR COMPLETION OF GRADING.
- 3. A COPY OF THESE PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- 4. BMP'S REFER TO EROSION AND SEDIMENT CONTROL PRACTICES DEFINED IN THE MPCA PROTECTING WATER QUALITY IN URBAN AREAS AND THE MINNESOTA CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL PLANNING HANDBOOK.
- 5. ALL EROSION AND SEDIMENT CONTROL FACILITIES (BMP'S) SHALL BE INSTALLED AND IN OPERATION PRIOR TO LAND DISTURBANCE ACTIVITIES. SOME EROSION CONTROLS SUCH AS CHECK DAMS AND TEMPORARY SILT PONDS MAY BE INSTALLED AS GRADING OCCURS IN THE SPECIFIC AREA. THEY SHALL BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETED AND THE POTENTIAL FOR EROSION HAS PASSED.
- 6. THE BMP'S SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. AS CONSTRUCTION PROGRESSES AND UNEXPECTED OR SEASONAL CONDITIONS DICTATE, THE PERMITTEE SHALL ANTICIPATE THAT MORE BMP'S WILL BE NECESSARY TO ENSURE EROSION AND SEDIMENT CONTROL ON THE SITE. DURING THE COURSE OF CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE PERMITTEE TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY CONSTRUCTION ACTIVITIES AND/OR CLIMATIC EVENTS AND TO PROVIDE ADDITIONAL BMP'S OVER AND ABOVE THE MINIMUM REQUIREMENTS SHOWN ON THE PLANS THAT MAY BE NEEDED TO PROVIDE EFFECTIVE PROTECTION OF WATER AND SOIL RESOURCES.
- 7. ALL TREES NOT LISTED FOR REMOVAL SHALL BE PROTECTED. DO NOT OPERATE EQUIPMENT WITHIN THE DRIP LINE, ROOT ZONES OR WITHIN TREE PROTECTION FENCE AREAS.
- 8. WHEREVER POSSIBLE, PRESERVE THE EXISTING TREES, GRASS AND OTHER VEGETATIVE COVER TO HELP FILTER RUNOFF.
- 9. OPERATE TRACK EQUIPMENT (DOZER) UP AND DOWN EXPOSED SOIL SLOPES ON FINAL PASS, LEAVING TRACK GROOVES PERPENDICULAR TO THE SLOPE. DO NOT BACK- BLADE. LEAVE A SURFACE ROUGH TO MINIMIZE EROSION.
- 10. TEMPORARY SEED SHALL BE DONE IN ACCORDANCE TO MNDOT 2575 & 3876. CONSISTING OF: MN SEED MIX 22-111 @ 40 LBS. PER ACRE OR APPROVED EQUAL.
  - MULCH SHALL BE MNDOT TYPE 1 @ 2 TONS PER ACRE OR APPROVED EQUAL AND DISK ANCHORED IN PLACE OR APPROVED EQUAL, INSTALLED TO MINIMUM 90% COVERAGE OF THE SURFACE AREA DISTURBED.
  - TYPE 1 FERTILIZER, 10-10-10 @ 200 LBS. PER ACRE

11. PERMANENT TURF RESTORATION SHALL BE DONE IN ACCORDANCE WITH MNDOT 2575 & 3876. CONSISTING OF: MN SEED MIX 25-141 AT 59 POUNDS PER ACRE.

- MULCH SHALL BE MNDOT TYPE 1 @ 2 TONS PER ACRE OR APPROVED EQUAL AND DISK ANCHORED IN PLACE OR APPROVED EQUAL, INSTALLED TO MINIMUM 90% COVERAGE OF THE SURFACE AREA DISTURBED
- TYPE 1 FERTILIZER, 10-10-10 @ 200 LBS. PER ACRE.
- 12. SLOPES AT 3:1 OR STEEPER, AND/OR WHERE INDICATED ON THE PLANS SHALL BE SEEDED AND HAVE AN EROSION CONTROL BLANKET TYPE 3 INSTALLED OR MAY BE HYDROSEEDED WITH TACKIFIER MULCH.
- 13. THE CONTRACTOR SHALL REMOVE ALL SOILS AND SEDIMENT TRACKED ONTO EXISTING STREETS AND PAVED AREAS.
- 14. IF BLOWING DUST BECOMES A NUISANCE. THE CONTRACTOR SHALL APPLY WATER FROM A TANK TRUCK TO ALL CONSTRUCTION AREAS.
- 15. WITHIN 7 DAYS OF COMPLETION OF THE SITE GRADING OPERATIONS THE ENTIRE SITE (EXCEPT ROADWAYS) SHALL HAVE BEEN SEEDED AND MULCHED AND SILT FENCE SHALL INSTALLED AROUND ALL PONDS.
- 16. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PROPERLY DISPOSED OF WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
- 17. THE MINIMIZATION OF SOIL COMPACTION MUST BE USED ON AREAS OUTSIDE OF SPECIFIC COMPACTION REQUIRED AREAS. THESE PRACTICES INCLUDE: PREVENTING HEAVY EQUIPMENT TRAFFIC AND CONSTRUCTION TRAFFIC FROM AREAS, USING PRACTICES TO PREVENT CONCENTRATED FLOW OCCURRING OVER THE SOIL, PROVIDE LIGHT TRACKED EQUIPMENT TO CONSTRUCT AREA TO FINAL GRADE. THE AREAS REQUIRING LOOSE SOIL INCLUDE ALL TOPSOIL PLACEMENT AND INFILTRATION/FILTRATION BASINS.

- CONSTRUCTION ACTIVITY REQUIREMENTS
- A. EROSION PREVENTION PRACTICES
- SITE BEFORE WORK BEGINS.
- THE CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED.
- CONNECTING TO A SURFACE WATER).
- CONNECTION TO A SURFACE WATER.
- B. <u>SEDIMENT CONTROL PRACTICES</u>
- DISTURBING ACTIVITIES BEGIN.
- ACTIVITY IS NOT COMPLETE.
- SYSTEMS, OR CONDUITS OR DITCHES.
- C. DEWATERING AND SURFACE DRAINAGE

- D. INSPECTIONS AND MAINTENANCE
- UNLESS ANOTHER TIME FRAME IS SPECIFIED. (SEE MPCA NPDES PERMIT IV.E.5).
- POLLUTION PREVENTION MANAGEMENT MEASURES



## PI NEER engineering

(651) 681-1914

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1. THE CONTRACTOR SHALL IMPLEMENT CONSTRUCTION PHASING, VEGETATIVE BUFFER STRIPS, HORIZONTAL SLOPE GRADING, AND OTHER CONSTRUCTION PRACTICES THAT MINIMIZE EROSION. THE LOCATION OF AREAS NOT TO BE DISTURBED MUST BE DELINEATED (E.G. WITH FLAGS, STAKES, SIGNS, SILT FENCE, ETC.) ON THE DEVELOPMENT

2. TEMPORARY STABILIZATION MUST BE INITIATED IMMEDIATELY WHENEVER ANY CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED ON ANY PORTION IF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 7 CALENDAR DAYS. STABILIZATION MUST BE COMPLETED NO LATER THAN 7 CALENDAR DAYS AFTER

3. ALL EXPOSED SOIL AREAS WITHIN 200 FEET OF A SURFACE WATER OR ANY STORMWATER CONVEYANCE SYSTEM WHICH IS CONNECTED TO A SURFACE WATER MUST BE STABILIZED WITHIN 7 DAYS. THESE AREAS INCLUDE POND SIDE SLOPES, EXPOSED SOIL AREAS WITH A POSITIVE SLOPE TO A CURB AND GUTTER SYSTEM. STORM SEWER INLET, DRAINAGE DITCH, OR OTHER SYSTEM THAT DISCHARGES TO A SURFACE WATER.

4. THE NORMAL WETTED PERIMETER OF ANY DRAINAGE DITCH MUST BE STABILIZED WITHIN 200 LINEAL FEET FROM THE PROPERTY EDGE, OR FROM THE POINT OF DISCHARGE TO ANY SURFACE WATER (WITHIN 24 HOURS OF

5. PIPE OUTLETS MUST BE PROVIDED WITH TEMPORARY OR PERMANENT ENERGY DISSIPATION WITHIN 24 HOURS OF

1. SEDIMENT CONTROL PRACTICES MUST MINIMIZE SEDIMENT ENTERING SURFACE WATERS. DITCHES AND SEDIMENT BASINS REQUIRE SEDIMENT CONTROL PRACTICES ONLY AS APPROPRIATE FOR SITE CONDITIONS. IF DOWN GRADE SYSTEM IS OVERLOADED, ADDITIONAL UPGRADE PRACTICES MUST BE INSTALLED, AND THE SWPPP MUST BE AMENDED. THERE SHALL BE NO UNBROKEN SLOPE LENGTH OF GREATER THAN 75 FEET FOR SLOPES WITH A GRADE OF 3:1 OR STEEPER. SLOPES MAY BE BROKEN WITH SILT FENCE, ROCK CHECK DAMS, COMPOST SNAKES, OR OTHER APPROVED METHODS AND/OR AS SHOWN ON THE EROSION CONTROL PLAN.

2. SEDIMENT CONTROL PRACTICES MUST BE ESTABLISHED ON DOWNGRADE PERIMETERS BEFORE UPGRADE LAND

3. THE TIMING OF SEDIMENT CONTROL PRACTICES MAY BE ADJUSTED TO ACCOMMODATE SHORT TERM ACTIVITIES. HOWEVER, THESE PRACTICES MUST BE INSTALLED BEFORE THE NEXT PRECIPITATION EVENT EVEN IF THE

4. CONTRACTOR MUST PROTECT ALL STORM DRAIN INLETS BY APPROPRIATE BMP'S DURING CONSTRUCTION UNTIL ALL SOURCES WITH POTENTIAL FOR DISCHARGING TO THE INLET HAVE BEEN STABILIZED.

5. TEMPORARY STOCKPILES MUST HAVE SILT FENCE AROUND THE PERIMETER OF THE BASE OF THE STOCKPILE AND CANNOT BE PLACED IN SURFACE WATERS, INCLUDING STORM WATER CONVEYANCES SUCH AS CURB AND GUTTER

6. CONTRACTOR MUST INSTALL TEMPORARY (OR PERMANENT) SEDIMENTATION BASINS WHERE TEN OR MORE ACRES OF DISTURBED SOIL DRAIN TO A COMMON LOCATION AND/OR AS SHOWN ON THE EROSION CONTROL PLAN.

1. DEWATERING OR ANY TYPE OF SURFACE DRAINAGE THAT MAY HAVE TURBID OR SEDIMENT LADEN DISCHARGE WATER MUST BE DISCHARGED TO AN APPROVED SEDIMENT BASIN ON THE PROJECT SITE WHENEVER POSSIBLE. IF THE WATER CANNOT BE DISCHARGED TO A BASIN PRIOR TO ENTERING THE SURFACE WATER, IT MUST BE TREATED WITH THE APPROPRIATE BMP'S SUCH THAT THE DISCHARGE DOES NOT ADVERSELY AFFECT THE RECEIVING WATER OR DOWNSTREAM LANDOWNERS. THE CONTRACTOR MUST ENSURE THAT DISCHARGE POINTS ARE ADEQUATELY PROTECTED FROM EROSION AND SCOUR. THE DISCHARGE MUST BE DISPERSED OVER NATURAL ROCK RIP RAP, SAND BAGS, PLASTIC SHEETING, OR OTHER ACCEPTED ENERGY DISSIPATION MEASURES.

2. ALL WATER FROM DEWATERING MUST BE DISCHARGED IN A MANNER THAT DOES NOT CAUSE NUISANCE CONDITIONS, EROSION, OR INUNDATION OF WETLANDS CAUSING SIGNIFICANT ADVERSE IMPACT TO THE WETLAND.

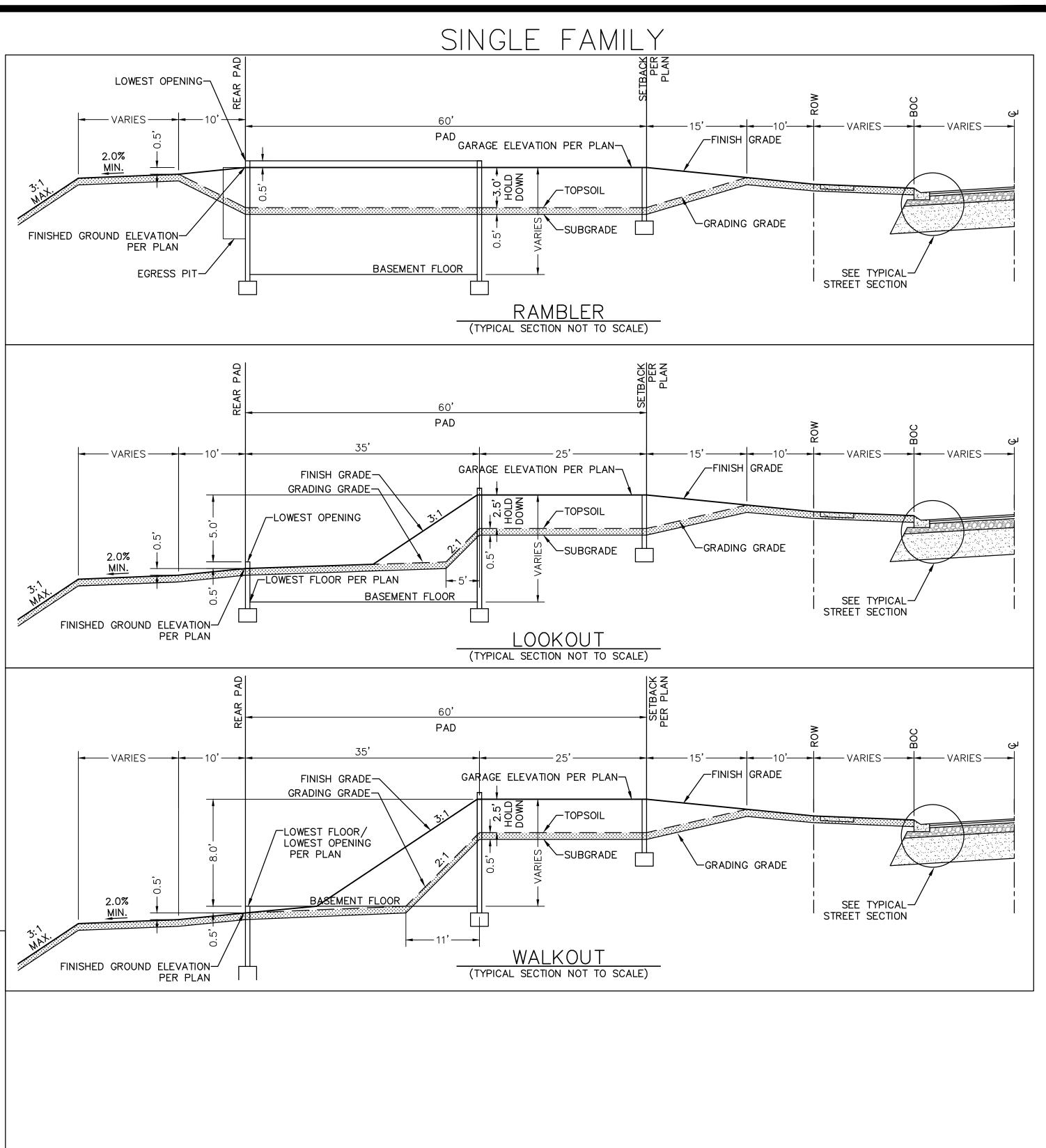
1. THE CONTRACTOR MUST APPOINT SOMEONE TO INSPECT THE CONSTRUCTION SITE ONCE EVERY SEVEN DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT OF GREATER THAN 0.5 INCHES IN 24 HOURS. ALL INSPECTIONS MUST BE RECORDED IN WRITING AND RETAINED PER M.P.C.A. N.P.D.E.S. REQUIREMENTS. (NOTE: LOCAL JURISDICTION MAY REQUIRE A MORE FREQUENT INTERVAL OF INSPECTION.)

2. ALL NONFUNCTIONAL BMPS MUST BE REPAIRED, REPLACED OR SUPPLEMENTS WITH FUNCTIONAL BMPS BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS

1. SOLID WASTE MUST BE DISPOSED OF PER M.P.C.A. REQUIREMENTS.

2. HAZARDOUS MATERIALS MUST BE STORED AND DISPOSED OF PER M.P.C.A. REGULATIONS.

3. EXTERNAL WASHING OF CONSTRUCTION VEHICLES MUST BE LIMITED TO A DEFINED AREA OF THE SITE BUNDEE MUST BE CONTAINED AND WASTE PROPERLY DISPOSED OF. NO ENGINE DECREASING IS ALLOWED ON SITE.



Date2-18-2021DesignedNAPDrawnMSN	GRADING DETAILS	SUMMERGAT 17305 CEDAR AVENUE S LAKEVILLE, MINNESOTA

GATE ENUE SOUTH	SUMMERLAND PLACE 1ST ADDITION
IESOTA 55044	SHAKOPEE, MINNESOTA

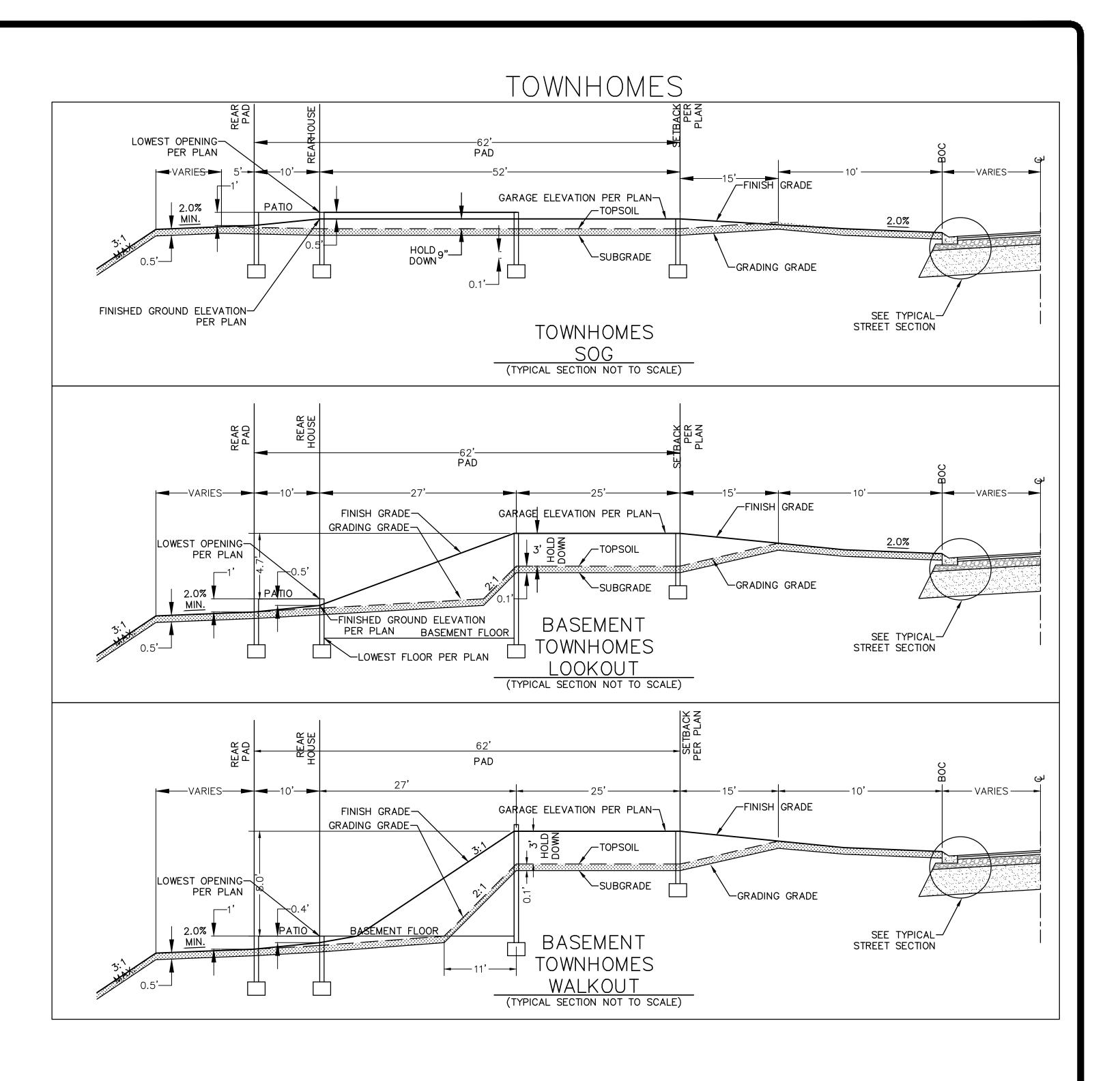
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### PI NEER engineering CIVIL ENGINEERS LAND PLANNERS LAND SURVEYORS LANDSCAPE ARCHITECT

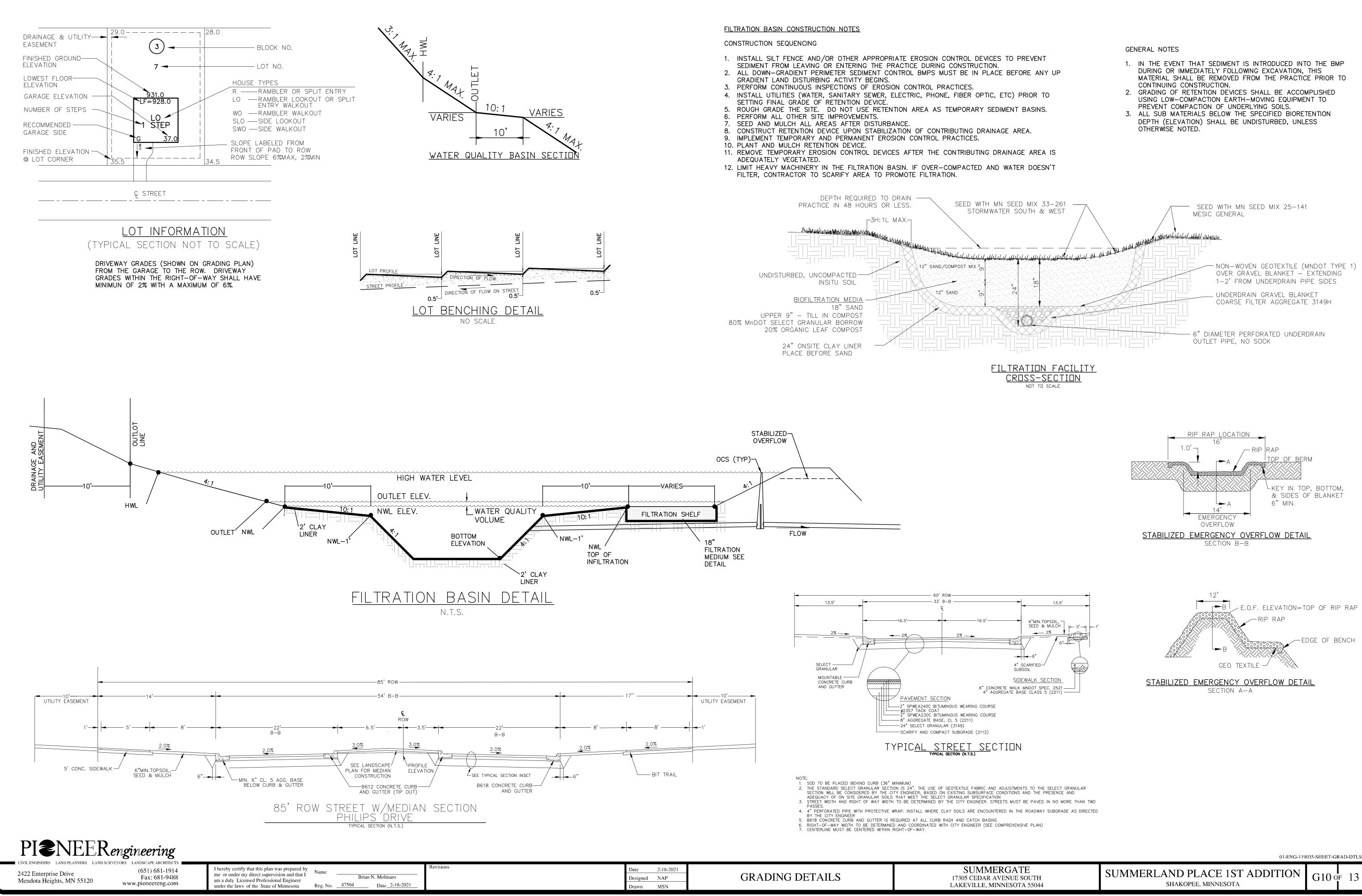
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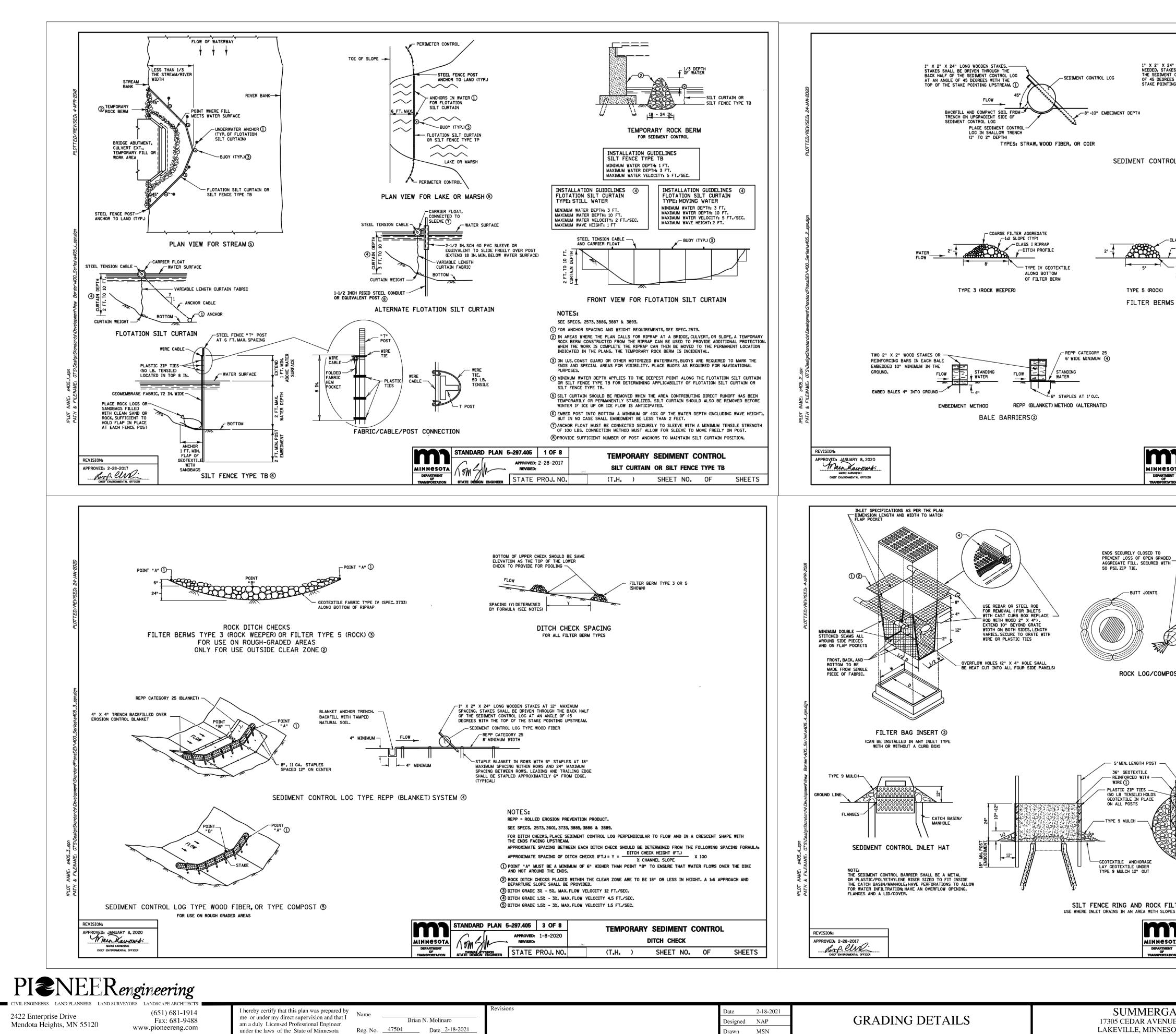


Drawn MSN SHAKOPEE, MINNESOTA 55044	Date2-18-2021DesignedNAPDrawnMSNMSNGRADING DETAILSSUMMERGATESUMMERLAND PLACE 1ST ADDITIONSHAKOPEE, MINNESOTA 55044SHAKOPEE, MINNESOTA
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Drawn MSN LAKEVILLE, MINNESO
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Date 2-18-2021 CD A DUNC DET A U.C.		
Designed NAP GRADING DETAILS 17305 CEDAR		DETAILS SUMME
Drawn MSN LAKEVILLE, I	Drawn	LAKEVILLE, MIN

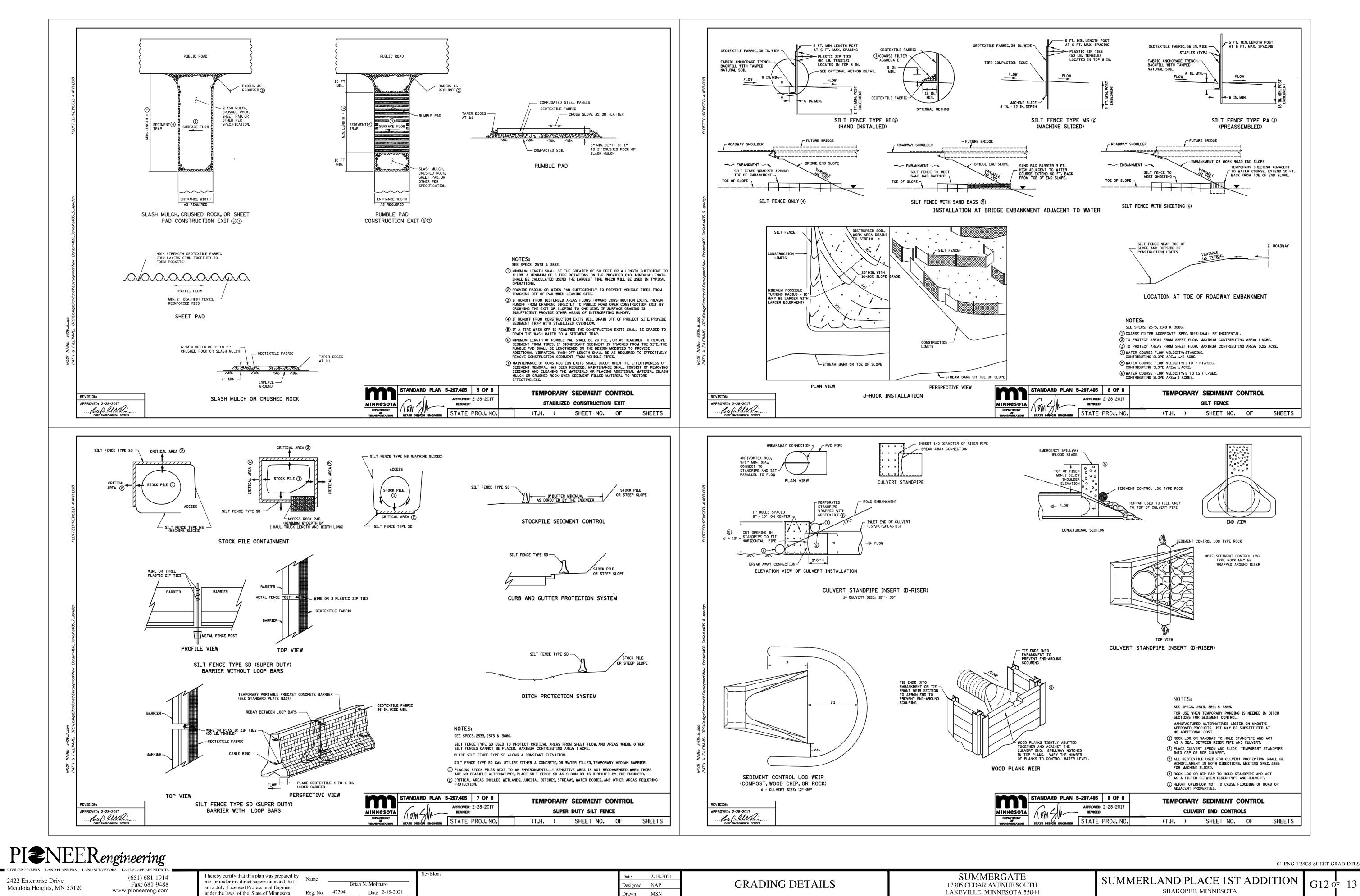
1" X 2" X 24" LONG WOODEN STAKES AS NEEDED. STAKES SHALL BE DRIVEN OVER THE SEDIMENT CONTROL LOG AT AN ANGLE OF 45 DEGREES WITH THE TOP OF THE	
STAKE POINTING UPSTREAM. (2)	CONTROL LOG
8"-10" EMBEDMENT DEPTH	
TYPES: WOOD CHIP, COMPOST	OR ROCK
ENT CONTROL LOGS	
COMPOST, SLASH MULCH, OR TOPSOIL -	
CLASS II RIPRAP	
5' TYPE IV GEOTEXTILE ALONG BOTTOM OF FILTER BERM	4' MIN.
MULCH),	MPOST), TYPE 2 (SLASH OR TYPE 4 (TOPSOIL)
LTER BERMS	
NOTES	s,
REPP = SEE SPE	ROLLED EROSION PREVENTION PRODUCT. CS. 2573, 3149, 3874, 3882, 3885, 3886, AND 3897.
APPLICA ② PLACE S	ETWEEN STAKES SHALL BE A MAXIMUM OF 1'FOR DITCH CHECKS OR 2'FOR OTHER TIONS. STAKES AS NEEDED TO PREVENT MOVEMENT OF SEDIMENT CONTROL LOGS PLACED ON OR AS NEEDED DUE TO OTHER FACTORS. STAKES SHALL BE INCIDENTAL.
(3) TO BE L MAXIMUM	USER AS NEEDED DUE TO OTHER FACTORS. STARES SHALL DE INCIDENTAL. JSED FOR CRITICAL PERIMETER CONTROL AREAS WHERE STANDING WATER OCCURS (6" A DEPTH). BALES SHALL CONSIST OF TYPE 1 MULCH OF APPROXIMATELY 14" X 18" X 36" ALES SHALL BE PLACED ON EDGE AND BUTTED TIGHT TO ADJACENT BALES.
	OF TRENCHING, PLACE BALE ON THE REPP (BLANKET) AND WRAP BLANKET AROUND THE LACE STAKE THROUGH BALE AND BLANKET.
MINNESOTA	
DEPARTMENT OF TRANSPORTATION STATE DESIGN ENGINEER STATE PROJ.	NO. (T.H. ) SHEET NO. OF SHEETS
3/16" THICK (MIN.) STEEL COVER	8" )
6" DIAMETER	
POLYETHYLENE  CLOSED TO OF OPEN GRADED L. SECURED WITH	
e.	
	Je RISER
	ADJUST LEVEL OF FILTER SOCK TO BE BELOW ROAD PERSPECTIVE VIEW
©	SURFACE ELEV. 5
SECT UP POS	
2.5' MAX SPACING	POP-UP HEAD
NGTH POST	
TIES TIED HOLDS IN PLACE	NOTES: SEE SPECS. 2573, 3137, & 3886. DEVICES MUST BE ADJUSTED ACCORDINGLY AS TO NOT CAUSE FLOODING ON ROADWAY THAT WOULD IMPEED TRAFFIC FLOW.
	<ol> <li>ALL GEOTEXTILE USED FOR INLET PROTECTION SHALL BE MONOFILAMENT IN BOTH DIRECTIONS, MEETING SPEC. 3886.</li> <li>FINISHED SIZE, INCLUDING POCKETS WHERE REQUIRED SHALL EXTEND A MINIMUM OF</li> </ol>
	10 INCHES AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL. (3) INSTALLATION NOTES: DO NOT PLACE FILTER BAG INSERT IN INLETS SHALLOWER THAN 30 INCHES, MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE. THE PLACED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.
CHORAGE UNDER	PLACED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE OF 3 INCHES BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES. WHERE NECESSARY THE CONTRACTOR SHALL CLINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3 INCH SIDE CLEARANCE.
UNDER 2" OUT	<ul> <li>FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2 INCH X 4 INCH OR USE A ROCK SOCK OR SAND BAGS IN PLACE OF THE FLAP POCKETS.</li> <li>SOCK HEIGHT MUST NOT BE SO HIGH AS TO SLOW DOWN WATER FILTRATION TO CAUSE FLOODING OF THE ROADWAY.</li> </ul>
ND ROCK FILTER BERM	6 GEOTEXTILE SOCK BETWEEN 4-10 FEET LONG AND 4-6 INCH DIAMETER. SEAM TO BE JOINED BY TWO ROWS OF STITCHING WITH A PLASTIC MESH BACKING OR PROVIDE A HEAT BONDED SEAM (OR APPROVED EQUIVALENT). FILL ROCK LOG WITH OPEN GRADED AGGREGATE CONSISTING OF SOUND DURABLE PARTICLES OF COARSE AGGREGATE
AREA WITH SLOPES AT 1:3 or LESS           STANDARD         PLAN         5-297.405         4 OF	CONFORMING TO SPEC. 3137 TABLE 3137-1; CA-3 GRADATION.
MINNESOTA DEPARTMENT TEAUSTRATION STATE DESIGN ENGINEER STATE PROJ. N	STORM DRAIN INLET PROTECTION
TRANSPORTATION STATE DESIGN ENGINEER STATE PROJ. N	VIIII / SHELINU, UF SHELIS

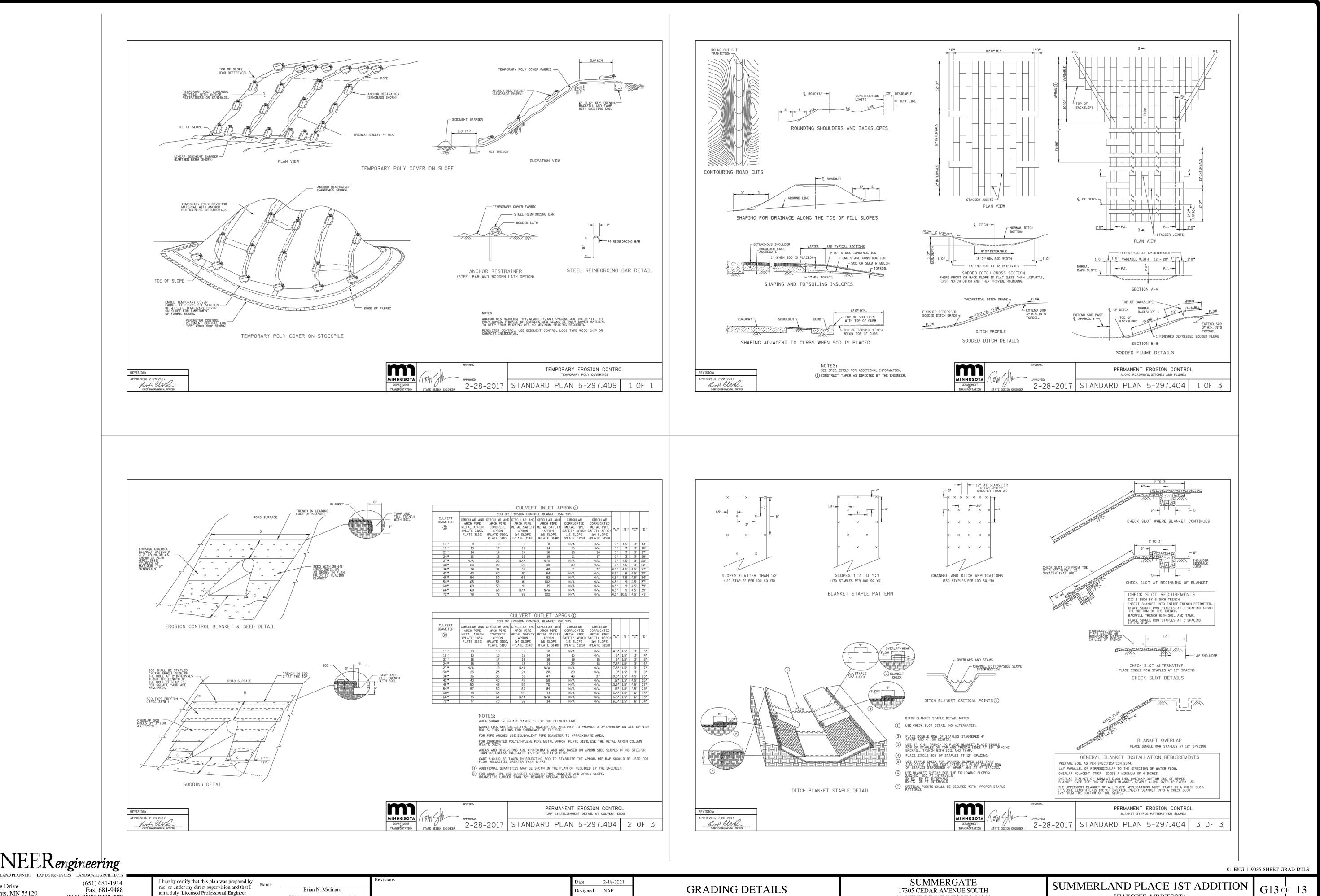
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SUMMERLAND PLACE 1ST ADDITION SHAKOPEE, MINNESOTA

01-ENG-119035-SHEET-GRAD-DTLS

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MSN

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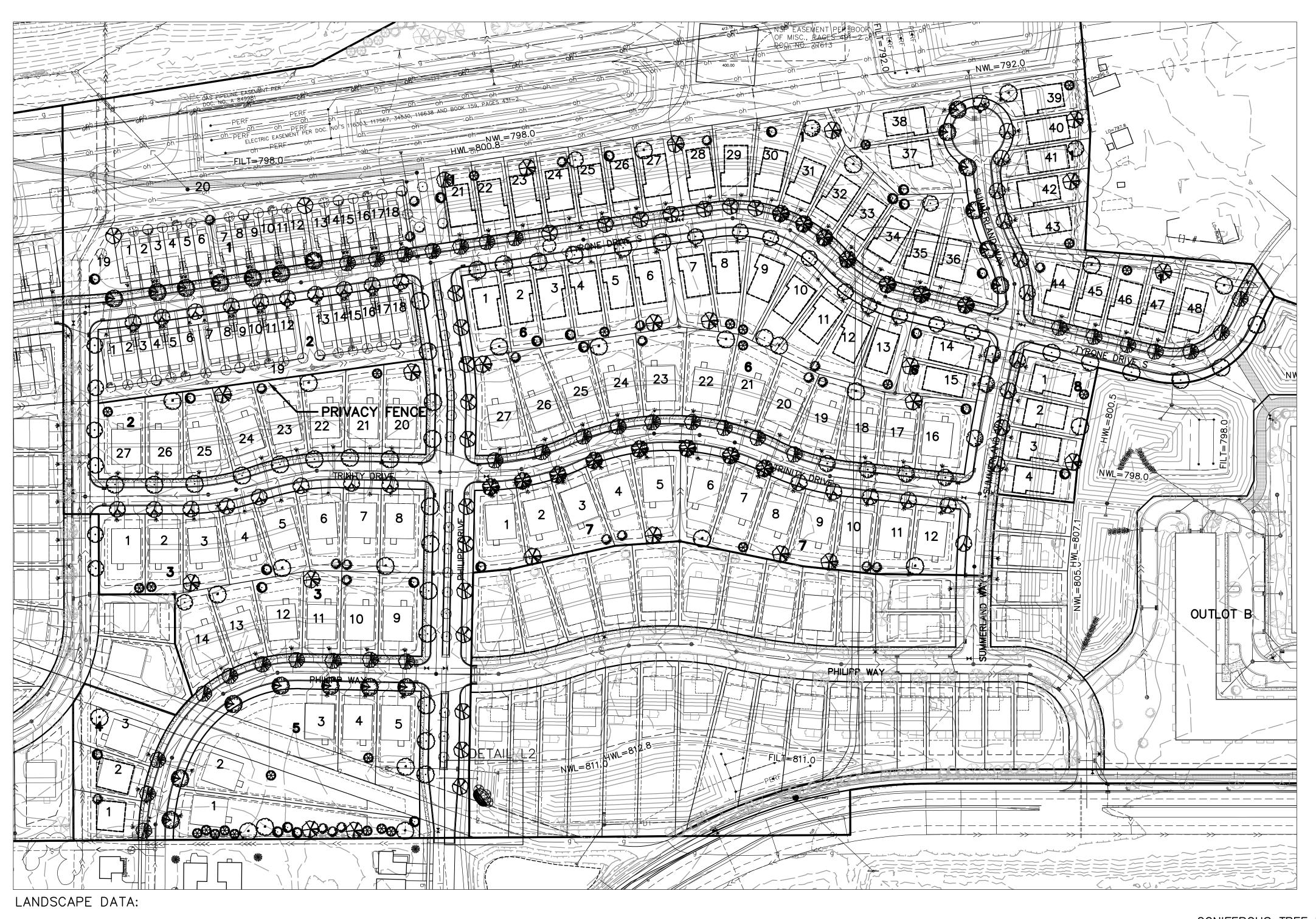
Name me or under my direct supervision and that I \_\_\_\_ Brian N. Molinaro am a duly Licensed Professional Engineer Reg. No. <u>4750</u>4 \_\_\_\_ Date\_2-18-2021 under the laws of the State of Minnesota

SHAKOPEE, MINNESOTA

17305 CEDAR AVENUE SOUTH

LAKEVILLE, MINNESOTA 55044

G13 OF 13



TREES REQUIRED: 2 NON-ORNAMENTAL TREES PER SINGLE FAMILY LOT PROPOSED SF LOTS: 195 TREES REQUIRED: 390 PROPOSED TOWNHOMES: 144 PROPOSED PARKING SPACES: 216 TREES REQUIRED (1 TREE/10 SPACES): 22 APPROXIMATE IMPERVIOUS SURFACE (APARTMENTS/AMENITIES/PARKING): 279,790 SQ FT NUMBER OF TREES REQUIRED PER CITY CODE FOR MULTIFAMILY IMPERVIOUS: 249

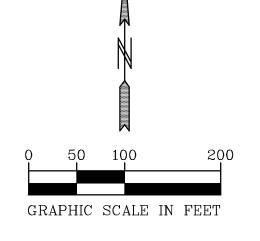
TOTAL NUMBER OR TREES REQUIRED BY CITY: 661 TOTAL NUMBER PROPOSEDTREES: 1,017 OVERSTORY: 598 CONIFER: 263 ORNAMENTAL: 156

TOTAL NUMBER PROPOSED TREES (FIRST ADDITION): 362 OVERSTORY: 229 CONIFER: 74 **ORNAMENTAL: 59** 

# PI2NFFR engineering

CIVIL ENGINEERS LAND PLANNERS LAND SURVEYORS LANDSCAPE ARCHITECTS		
2422 Enterprise Drive(651) 681-1914Mendota Heights, MN 55120Fax: 681-9488www.pioneereng.com	I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Licensed Landscape Architect under the laws of the State of Minnesota Reg. No. <u>44763</u> Date <u>2-21-2021</u>	Revisions

MITIGATION REQUIRED FROM TREE PRESERVATION: 61" PROPOSED DBH PROPOSED: 2,411"



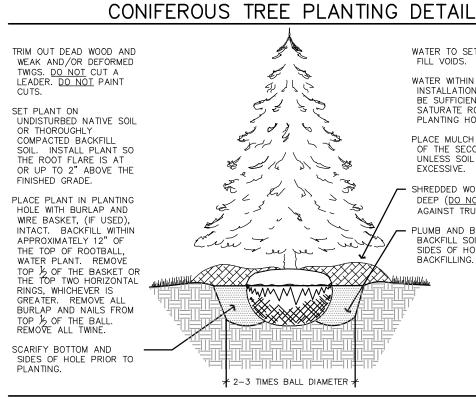
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TML/JLT

Designed TML/JLT

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LANDSCAPE PLAN



SUMMERGATE 17305 CEDAR AVENUE SOUTH LAKEVILLE, MINNESOTA 55044

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A.S.  $\bigcirc$  $\otimes$ 

KEY

PLANT SCHEDULE			
COMMON NAME/Scentific name	ROOT		INSTRUCTIONS
OVERSTORY TREES			
NORTHWOOD MAPLE/Acer rubrum 'Northwood'	2.5" B&B	20	
AUTUMN BLAZE MAPLE/Acer x freemanii 'Jeffersred'	2.5" B&B	8	
RIVER BIRCH/Betula nigra 'Heritage'	8-10'B&B	23	Clump
COMMON HACKBERRY/Celtis occidentalis	2.5" B&B	19	
THORNLESS HONEYLOCUST/Gleditsia triacanthos var. inermis	2.5" B&B	21	
NORTHERN PIN OAK/Quercus palustris	2.5" B&B	15	
SENTRY LINDEN/Tila americana 'Sentry'	2.5" B&B	35	
SWAMP WHITE OAK/Quercus bicolor	2.5" B&B	22	
SIENNA GLEN MAPLE/Acer x freemanii 'Sienna Glen'	2.5" B <b>&amp;</b> B	32	
KENTUCKY COFFEE TREE/Gymnocladus dioiducus	2.5" B <b>&amp;</b> B	34	
EVERGREEN TREES			
BLACK HILLS SPRUCE/Picea glauca densata	6' B&B	24	
WHITE PINE/Pinus strobus	6' B&B	24	
NORWAY SPRUCE/PICEA ABIES	6' B&B	26	
ORNAMENTAL TREES			
JAPANESE TREE LILAC/Syringa reticulata	6-8'B&B	28	Clump
SHOWY MOUNTAIN ASH/Sorbus decora	2.5" B&B	7	
PRAIRIE FIRE CRAB/Malus 'Prairie Fire'	2.5" B&B	7	
SERVICEBERRY/Amelanchier laevis	6-8'B&B	7	Clump
SPRING SNOW CRAB/Malus 'Spring Snow'	2.5" B&B	10	
SUGAR TYME CRAB/Malus 'Sugar Tyme'	2.5" B&B	3	

### LANDSCAPE NOTES

- THE LANDSCAPE CONTRACTOR SHALL VISIT THE PROJECT SITE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS PRIOR TO SUBMITTING A BID.

- THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF PROPOSED PHYSICAL START DATE AT LEAST 7 DAYS IN ADVANCE. - THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD VERIFICATION OF ALL EXISTING UTILITY

LOCATIONS ON THE PROJECT SITE WITH GOPHER STATE ONE CALL 1-800-252-1166 PRIOR TO COMMENCING WORK. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF EXISTING UTILITIES DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER. NOTIFY THE LANDSCAPE ARCHITECT OF ANY CONFLICTS TO FACILITATE PLANT RELOCATION.

- GRADING TO BE PERFORMED BY OTHERS.

- NO PLANT MATERIAL SHALL BE INSTALLED UNTIL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.

- ALL PLANT MATERIAL SHALL MEET THE STANDARDS FOUND IN THE AMERICAN ASSOCIATION OF NURSERYMEN-AMERICAN STANDARD FOR NURSERY STOCK.

ALL CONTAINER MATERIAL TO BE GROWN IN THE CONTAINER A MINIMUM OF SIX (6) MONTHS SITE.

- DECIDUOUS AND CONIFEROUS TREES SHALL NOT BE STAKED, BUT THE LANDSCAPE CONTRACTOR MUST GUARANTEE STANDABILITY TO A WIND SPEED OF 60 M.P.H.

- THE LANDSCAPE CONTRACTOR SHALL PROVIDE A MINIMUM GUARANTEE OF ONE YEAR ONE TIME REPLACEMENT ON NEW PLANT MATERIALS. GUARANTEE SHALL BE AGREED UPON BY DEVELOPER/BUILDER AND LANDSCAPE CONTRACTOR.

- THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY PLANTS WHICH ARE DEEMED UNSATISFACTORY BEFORE, DURING OR AFTER INSTALLATION.

- IF THERE IS A DESCREPANCY BETWEEN THE NUMBER OF PLANTS SHOWN ON THE PLAN AND THE NUMBER SHOWN ON THE PLANT LIST, THE NUMBER SHOWN ON THE PLAN WILL TAKE PRECEDENCE.

-THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MULCHES AND PLANTING SOIL QUANTITIES TO COMPLETE WORK SHOWN ON THE PLAN. THE LANDSCAPE CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN ON THE PLANT SCHEDULE.

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- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE CODES, REGULATIONS AND PERMITS GOVERNING THE WORK.

- STORAGE OF MATERIALS OR SUPPLIES ON-SITE WILL NOT BE ALLOWED.

WATER TO SETTLE PLANTS AND FILL VOIDS.

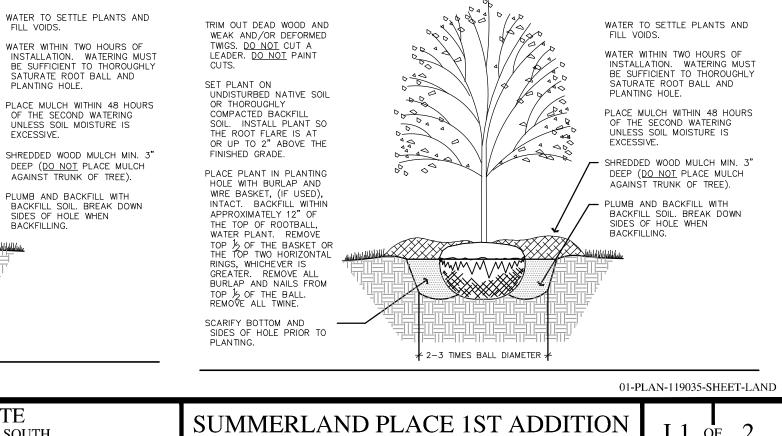
WATER WITHIN TWO HOURS OF INSTALLATION. WATERING MUST BE SUFFICIENT TO THOROUGHLY SATURATE ROOT BALL AND PLANTING HOLE.

PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.

SHREDDED WOOD MULCH MIN. 3" DEEP (<u>DO NOT</u> PLACE MULCH AGAINST TRUNK OF TREE).

BACKFILL SOIL. BREAK DOWN SIDES OF HOLE WHEN BACKFILLING.

DECIDUOUS TREE PLANTING DETAIL

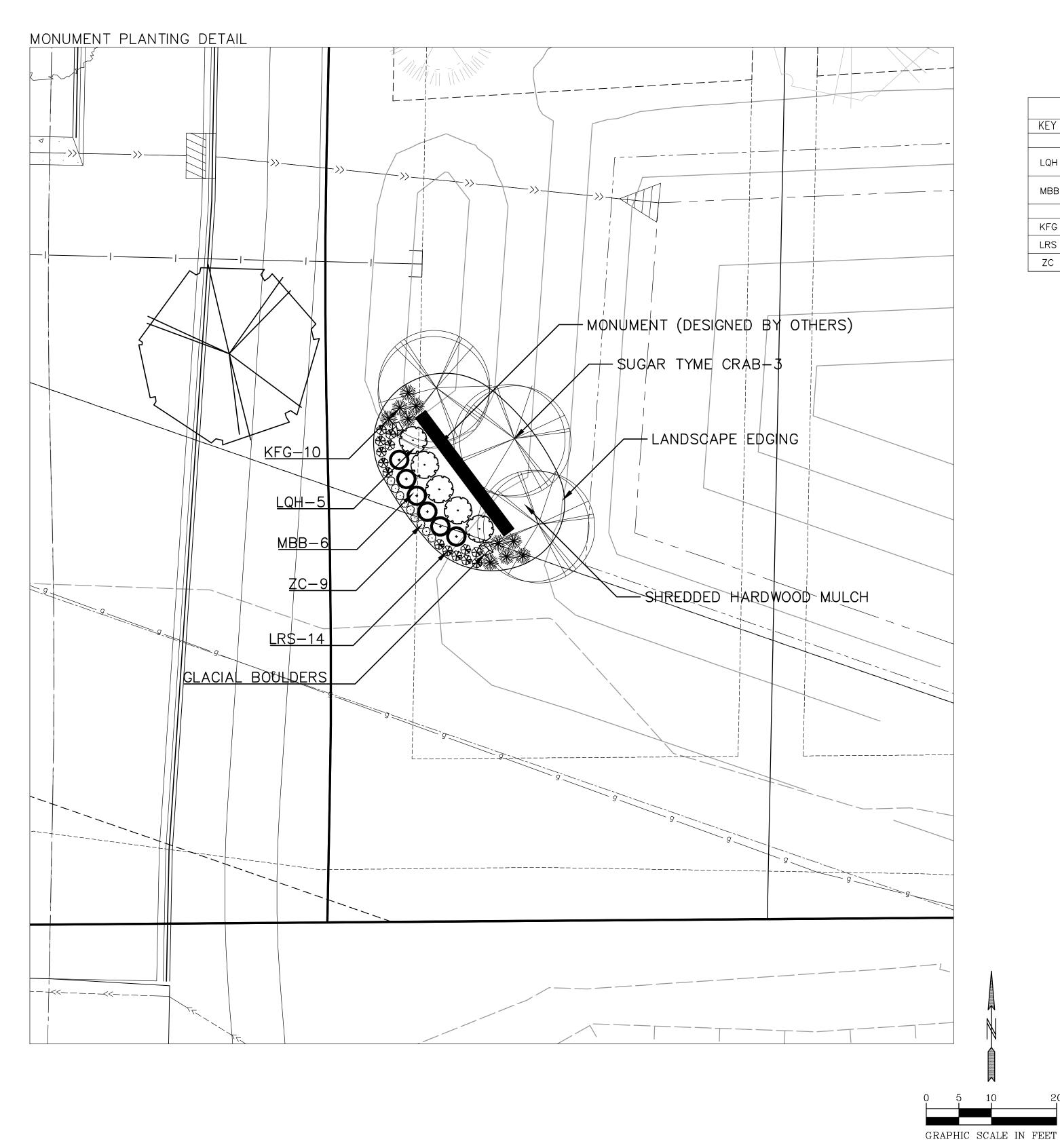


SHAKOPEE, MINNESOTA

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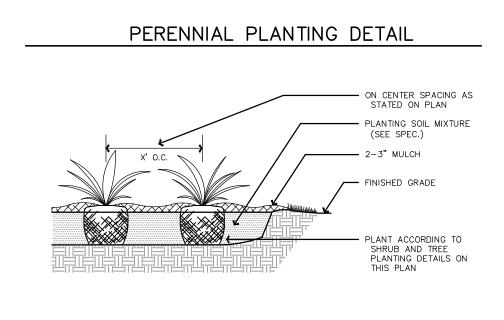


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I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Licensed Landscape Architect under the laws of the State of Minnesota

<sup>2</sup> Name \_\_\_\_\_\_ Jennifer L. T Reg. No. \_\_\_\_\_44763 \_\_\_\_\_ D

PLANT SCHEDULE						
KEY	COMMON NAME/Scentific name	ROOT	QUANTITY	INSTRUCTIONS		
	SHRUBS					
LQH	LQH LITTLE QUICK FIRE HYRADNGEA/Hydrangea paniculata 'SMHPLQF'		5			
MBB	MBB MR. BOWLING BALL ARBORVITAE/Thuja occidentalis 'Bobzam'		6			
	PERENNIALS					
KFG	(FG KARL FOERSTER REED GRASS/Calamagrostis x acutiflora		10			
LRS	LRS LITTLE SPIRE RUSSIAN SAGE/Perovskia 'Little Spire'		14			
ZC	ZAGREB COREOPSIS/Coreopsis verticillata 'Zagreb'	#1 POT	9			



Date2-12-2021DesignedTML/JLTDrawnTML/JLT	LANDSCAPE PLAN	SUMMERGATE 17305 CEDAR AVENUE SOU LAKEVILLE, MINNESOTA 5

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THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE CODES, REGULATIONS AND PERMITS GOVERNING THE WORK.
 STORAGE OF MATERIALS OR SUPPLIES ON-SITE WILL NOT BE ALLOWED.

SHRUB PLANTING DETAIL 1 994 SCARIFY BOTTOM AND SIDES - OF HOLE PRIOR TO PLANTING. PLUMB AND BACKFILL WITH BACKFILL SOIL. TRIM OUT DEAD WOOD AND WATER TO SETTLE PLANTS WEAK AND/OR DEFORMED TWIGS. <u>DO NOT</u> CUT A LEADER. <u>DO NOT</u> PAINT CUTS. AND FILL VOIDS. WATER WITHIN TWO HOURS OF INSTALLATION. WATERING MUST BE SUFFICIENT TO THOROUGHLY SATURATE SET PLANT ON UNDISTURBED NATIVE SOIL OR THOROUGHLY COMPACTED BACKFILL SOIL. INSTALL PLANT SO THE ROOT FLARE IS AT OR UP TO 2" ROOT BALL AND PLANTING HOLE. PLACE MULCH WITHIN 48 ABOVE THE FINISHED GRADE. HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE. REMOVE PLASTIC. METAL. REMOVE PLASTIC, METAL, WOOD OR FIBER CONTAINER AND SCORE OUTSIDE OF SOIL MASS WITH SHARP KNIFE. PLANTS CAN BE PLANTED IN A DEGRADABLE POT, THE CONTAINER MUST BE SLIT VERTICALLY AT 6" INTERVALS - SHREDDED WOOD MULCH MAX. 3" DEEP (<u>DO NOT</u> PLACE MULCH AGAINST STEM OF SHRUB). 2-3 TIMES BALL DIAMETER VERTICALLY AT 6" INTERVALS.

DECIDUOUS TREE PLANTING DETAIL 0.00000000 WATER TO SETTLE PLANTS AND FILL VOIDS. TRIM OUT DEAD WOOD AND WEAK AND/OR DEFORMED TWIGS. <u>DO NOT</u> CUT A LEADER. <u>DO NOT</u> PAINT CUTS. WATER WITHIN TWO HOURS OF INSTALLATION. WATERING MUST BE SUFFICIENT TO THOROUGHLY SATURATE ROOT BALL AND PLANTING HOLE. SET PLANT ON UNDISTURBED NATIVE SOIL OR THOROUGHLY COMPACTED BACKFILL SOIL. INSTALL PLANT SO THE ROOT FLARE IS AT OR UP TO 2" ABOVE THE PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE. FINISHED GRADE. 20 - SHREDDED WOOD MULCH MIN. 3" PLACE PLANT IN PLANTING HOLE WITH BURLAP AND WRE BASKET, (IF USED), INTACT. BACKFILL WITHIN APPROXIMATELY 12" OF THE TOP OF ROOTBALL, WATER PLANT. REMOVE DEEP (<u>DO NOT</u> PLACE MULCH AGAINST TRUNK OF TREE). - PLUMB AND BACKFILL WITH BACKFILL SOIL, BREAK DOWN SIDES OF HOLE WHEN BACKFILLING. TOP % OF THE BASKET OR THE TOP TWO HORIZONTAL RINGS, WHICHEVER IS GREATER. REMOVE ALL BURLAP AND NAILS FROM TOP 1/2 OF THE BALL. REMOVE ALL TWINE. SCARIFY BOTTOM AND SIDES OF HOLE PRIOR TO PLANTING. ✓ 2-3 TIMES BALL DIAMETER



SUMMERLAND PLACE 1ST ADDITION SHAKOPEE, MINNESOTA

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