

### **GENERAL NOTES** SHOULD THE CONTRACTOR FIND ANY DISCREPANCIES ON THE DRAWINGS, OR IN

THE FIELD PRIOR TO BEGINNING WORK OR DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER & ENGINEER. 2. A COMPLETE SET OF APPROVED DRAWINGS MUST BE MAINTAINED ON SITE AT ALL

TIMES BY THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS. 3. CHANGES TO APPROVED PLANS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE OWNER AND ENGINEER.

4. CHANGES TO APPROVED PLANS ON PUBLIC PROPERTY SHALL NOT BE MADE

WITHOUT WRITTEN APPROVAL FROM THE RESPECTIVE PUBLIC ENTITY. 5. ALL SITE AND RIGHT-OF-WAY CONSTRUCTION SHALL MEET CLAY COUNTY STANDARD SPECIFICATIONS LATEST REVISION. IN THE CASE OF A DISCREPANCY BETWEEN THE PLANS AND SPECIFICATIONS. THE PLANS SHALL GOVERN.

6. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING & VERIFYING ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION & IS RESPONSIBLE FOR ANY DAMAGE TO THEM DURING CONSTRUCTION. CONTRACTOR SHALL CONTACT THE LOCAL ONE-CALL SYSTEM AT LEAST 72 HOURS PRIOR TO BEGINNING CONSTRUCTION.

7. ANY WORK ON EXISTING PRIVATELY OWNED UTILITIES SHALL REQUIRE NOTIFICATION TO THE RESPECTIVE ENTITY BY THE CONTRACTOR 24 HOURS PRIOR TO COMMENCING WORK.

8. THE CONTRACTOR SHALL COMPLY WITH ALL RULES & REGULATIONS OF FEDERAL, STATE, COUNTY, & LOCAL AUTHORITIES.

9. THE CONTRACTOR IS REQUIRED TO MEET ALL APPLICABLE FEDERAL, OSHA, STATE, AND LOCAL REGULATIONS CONCERNING PROJECT SAFETY AND ASSUMES FULL RESPONSIBILITY FOR SAFETY ON THE PROJECT.

10. CONTRACTOR SHALL VERIFY THAT ALL NECESSARY PERMITS FOR CONSTRUCTION HAVE BEEN OBTAINED, ALL BONDS ARE POSTED, ALL FEES ARE PAID AND PROOF OF INSURANCE IS PROVIDED PRIOR TO THE START OF THE PROJECT

11. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL HORIZONTAL AND VERTICAL CONTROLS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SURVEY AND RELATED COSTS.

12. CONTRACTOR SHALL BE RESPONSIBLE FOR HIS/HER OWN MEASUREMENTS AND QUANTITIES. ENGINEER QUANTITIES ARE ESTIMATES ONLY.

13. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION OF UNDERGROUND UTILITIES BY THE APPROPRIATE UTILITY ENTITY. PROPER COORDINATION WITH THE RESPECTIVE UTILITY ENTITIES SHALL BE PERFORMED BY THE CONTRACTOR TO INSURE THAT ALL UTILITY ENTITY STANDARDS FOR MATERIAL AND METHODS ARE MET. THE GENERAL CONTRACTOR SHALL OVERSEE INSTALLATION OF UTILITIES AND COORDINATE WITH ALL SUBCONTRACTORS TO AVOID CONFLICTS.

14. THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORDS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES) TO THE OWNER FOLLOWING COMPLETION OF CONSTRUCTION ACTIVITIES.

15. THE CONTRACTOR SHALL PROVIDE TESTING, INSPECTIONS, AS-BUILT DRAWINGS, CERTIFICATIONS AND ANY OTHER PROCEDURES OR DOCUMENTATION REQUIRED BY THE GOVERNING AGENCIES TO CLOSE OUT THE PROJECT.

16. THE CONTRACTOR SHALL RESTORE ANY STRUCTURES, PIPE, UTILITY, PAVEMENT, CURBS SIDEWALKS, LANDSCAPED ARES, ETC. WITHIN THE SITE OR ADJOINING PROPERTIES DISTURBED DURING DEMOLITION OR CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER, AND TO THE SATISFACTION OF THE OWNER/JURISDICTIONAL **AUTHORITY** 

17. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL STRIPPING, RUBBISH, TRASH, DEBRIS, ORGANIC, AND EXCESS EXCAVATED MATERIAL IN A LAWFUL MANNER.

18. CONTRACTOR SHALL REFERENCE THE PROJECT GEOTECHNICAL REPORT AVAILABLE IN THE PROJECT MANUAL AND COMPLY WITH ALL REPORT REQUIREMENTS. IF A CONFLICT ARISES BETWEEN THE GEOTECHNICAL REPORT AND CIVIL DOCUMENTS, THE GEOTECHNICAL REPORT SHALL GOVERN.

19. FOR THE PURPOSES OF CONSTRUCTION SURVEY, ALL BUILDING DIMENSIONS SHALL BE VERIFIED WITH STRUCTURAL AND ARCHITECTURAL PLANS.

LOCATION AND TOP ELEVATIONS OF STRUCTURES MAY NEED TO BE ADJUSTED IN THE FIELD BY THE CONTRACTOR WHERE NECESSARY AND SHALL BE APPROVED BY THE ENGINEER. CONTRACTOR SHALL NOTE ANY CHANGES IN AS-BUILT DRAWINGS.

2. IF UNSUITABLE SUBGRADE MATERIALS ARE ENCOUNTERED, THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT (FROM OFF-SITE BORROW MATERIAL) OF ALL UNSUITABLE MATERIAL TO CLASSIFIED AS MH, CH, OH, OL AND PEAT IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM, UNLESS APPROVED IN WRITING BY THE PROJECT GEOTECHNICAL ENGINEER. THE SITE ENGINEER AND GEOTECHNICAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY UPON ENCOUNTERING UNSUITABLE SUBGRADE MATERIAL

3. THE CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATIONS AND GRADING INCLUDING FURNISHING OFF-SITE BORROW AND DISPOSING OF EXCESS MATERIAL AS REQUIRED TO MEET PLAN GRADES. OFF SITE BORROW SHALL MEET ALL REQUIREMENTS OF THE PROJECT GEOTECHNICAL REPORT (IF AVAILABLE) OR PER CLAY COUNTY

STANDARD SPECIFICATIONS. 4. COMPACTION LIFTS AND TESTING SHALL BE PER CLAY COUNTY REQUIREMENTS IN TRENCHING, SUB-BASE, BASE, AND PAVING MATERIALS. SUB-BASE LIFTS SHALL NOT EXCEED 12". BASE LIFTS SHALL NOT EXCEED 6".

5. CONTRACTOR SHALL UNIFORMLY GRADE TO MATCH EXISTING GRADES AT PROPERTY

6. GRADE TO ENSURE POSITIVE DRAINAGE. ALL FINISHED SURFACES SHALL BE FREE FROM SURFACE IRREGULARITIES.

# PAVING NOTES:

1. ALL PAVEMENT SECTION MATERIALS AND INSTALLATION SHALL MEET THE REQUIREMENTS OF CLAY COUNTY.

2. AGGREGATE BASE COURSE SHALL MEET THE REQUIREMENTS OF MNDOT.

## STORM SEWER & DRAINAGE NOTES:

CMP PIPE SHALL BE SPIRAL RIB 16 GA POLYMERIC COATED OR 12 GA ALUMINIZED.

HDPE PIPE SHALL BE ADS N12 OR PRINSCO GOLDFLO OR APPROVED EQUAL.

INVERTS SHOWN ON PLAN DRAWINGS ARE PIPE INVERTS UNLESS NOTED OTHERWISE. 4. ANY SUBSTITUTION FOR MATERIALS OR PROCEDURES MUST HAVE PRIOR WRITTEN APPROVAL OF THE COUNTY AND THE PROJECT ENGINEER.

EROSION & SEDIMENT CONTROL / SWPPP NOTES

1. IF THE LAND BOUNDARY DENOTED ON THE PLANS ENCOMPASSES MORE THAN 1 ACRE, A NOTICE OF INTENT TO OBTAIN A STORM WATER POLLUTION CONTROL PERMIT SHALL BE ACQUIRED BY THE CONTRACTOR AND OWNER FROM THE MINNESOTA POLLUTION CONTROL AGENCY 7 DAYS PRIOR TO CONSTRUCTION. THIS NOTICE OF INTENT SHALL BE PROVIDED WITH THE BUILDING PERMIT APPLICATION. CONTRACTOR IS RESPONSIBLE FOR NOI & SWPPP SUBMITTAL.

2. COPY OF NOI, COVERAGE LETTER FROM THE DOH AS WELL AS ALL MAINTENANCE AND INSPECTION RECORDS TO BE KEPT ON SITE AND AVAILABLE FOR REVIEW BY CITY, STATE OR FEDERAL OFFICIALS UPON REQUEST.

3. CONTRACTOR SHALL HAVE AN UPDATED SWPPP AVAILABLE ON SITE ANYTIME WORK IS BEING DONE. THIS DOCUMENT SHALL BE AVAILABLE FOR REVIEW BY CITY, STATE OR FEDERAL OFFICIALS UPON REQUEST. THE SWPPP SHALL BE IN ACCORDANCE WITH THE MINNESOTA GENERAL PERMIT NO. MNR100001 AND THE PLANS. THE ESC PLAN IS THE ENGINEER'S RECOMMENDATION FOR EROSION AND SEDIMENT CONTROL BASED ON THE DESIGN OF THE PROPOSED SITE. THIS DESIGN DOES NOT TAKE INTO EFFECT CONTRACTOR MEANS AND METHODS. CONSTRUCTION SCHEDULE, OR ORDER OF OPERATIONS. CONTRACTOR IS EXPECTED TO ADJUST DESIGN AS IS NECESSARY TO MEET THE REQUIREMENTS OF THE GENERAL PERMIT

CONTRACTOR IS RESPONSIBLE FOR ALL EROSION AND SEDIMENT CONTROL ON THE SITE. THIS INCLUDES BUT IS NOT LIMITED TO STORM WATER EROSION, EROSION FROM PUMPING OPERATIONS, OFF SITE TRACKING, DUST CONTROL AND CONTROL OF ANY CONCRETE GRINDINGS OR SAW CUT DUST. CONTRACTOR IS ALSO RESPONSIBLE FOR ALL OTHER ITEMS AS REQUIRED IN THE GENERAL PERMIT

5. INSPECTIONS SHALL BE DONE AND DOCUMENTED BY THE CONTRACTOR EVERY 14 DAYS AND AFTER AN RAIN EVENT 1/4" OR GREATER. A RAIN GAUGE SHALL BE ONSITE AND USED TO MAKE THIS DETERMINATION.

6. SITE SHALL BE STABILIZED WITHIN 14 DAYS OF COMPLETION OF WORK OR WITHIN 14 DAYS OF SUSPENSION OF WORK PER THE GENERAL PERMIT.

7. ALL EROSION AND SEDIMENT RELATED CONTROL AND ITEMS NEED TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS UNLESS OTHERWISE DICTATED IN THE PLANS.

8. CONTRACTOR IS RESPONSIBLE FOR ALL DE-WATERING AS NECESSARY TO MEET REQUIRED EXCAVATIONS AND GRADES. MUDDY WATER TO BE PUMPED FROM EXCAVATION AND WORK AREAS MUST BE HELD IN SETTLING BASINS OR FILTERED PRIOR TO ITS DISCHARGE INTO SURFACE WATERS OR STORM DRAINAGE SYSTEMS. WATER MUST BE DISCHARGED THROUGH A PIPE, WELL GRASSED OR LINED CHANNEL, OR OTHER EQUIVALENT MEANS SUCH THAT DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENTATION. THIS INCLUDES DE-WATERING OF RAINWATER, GROUND WATER, OR ANY OTHER WATER ON SITE CAUSING IMPACTS TO SITE CONSTRUCTION. 9. ALL DISTURBED AREAS SHALL BE SEEDED AND HYDROMULCHED UNLESS SHOWN

OTHERWISE IN THE PLANS. 10. TOP SOIL OR OTHER SOIL/CLAY STOCKPILES ARE NOT TO BE LOCATED WITHIN FLOW PATHS, BASES OF ALL STOCKPILES SHALL BE SURROUNDED WITH SILT

FENCE.

**SEEDING NOTES:** 1. ALL SEEDING MIX SHALL CONSIST OF THE FOLLOWING:

-PERENNIAL RYEGRASS = 50 LBS OF LIVE SEED PER ACRE -PARK KENTUCKY BLUEGRASS = 50 LBS OF LIVE SEED PER ACRE -DURAHARD FESCUE = 30 LBS OF LIVE SEED PER ACRE -TOTAL LBS PER ACRE = 130 -FERTILIZER TYPE = 5-10-5

-FERTILIZER APPLICATION RATE = 50 LBS PER ACRE 2. CULTIVATE OR DISK TOPSOIL TO A DEPTH OF APPROXIMATELY 3".

3. REMOVE MATERIALS GREATER THAN 1" IN DIAMETER THAT CANNOT BE BROKEN UP.

4. PLANT SEEDS TO A DEPTH BETWEEN  $\frac{1}{4}$ " AND  $\frac{3}{4}$ ".

5. SEED ONLY WHEN WIND IS LESS THAN 15 MPH WHEN NOT USING A GRASS DRILL. 6. MULCHING SHALL BE USED IMMEDIATELY AFTER SEEDING TO PREVENT EROSION AND PROMOTE EARLIER VEGETATION COVER.

7. CONTRACTOR IS RESPONSIBLE FOR WATERING TO ESTABLISH GRASS GROWTH TO A HEIGHT OF 3".

## TEMPORARY TRAFFIC CONTROL NOTES:

1. UNLESS NOTED OTHERWISE, THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AN ATSSA CERTIFIED TRAFFIC CONTROL SUPERVISOR (TCS) AND ANY NECESSARY TEMPORARY TRAFFIC CONTROL DEVICES ON AND OFF-SITE INCLUDING OBTAINING ANY APPLICABLE PERMITS. THE CONTRACTOR SHALL IDENTIFY THE TCS AND PROVIDE PROOF OF CERTIFICATION AT A PRECONSTRUCTION MEETING

2. UNLESS A TEMPORARY TRAFFIC CONTROL PLAN IS INCLUDED WITH THE DESIGN DOCUMENTS, CONTRACTOR SHALL SUBMIT A COPY OF THE APPROVED TRAFFIC CONTROL PLAN TO THE ENGINEER FOR REVIEW.

3. CONTRACTOR IS RESPONSIBLE TO INSTALL, INSPECT, MAINTAIN, AND REMOVE TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE LATEST STANDARDS AND REQUIREMENTS OF THE MUTCD, STANDARD HIGHWAY SIGNS AND MARKINGS BOOK PUBLISHED BY THE FHWA, AND LOCAL REGULATIONS.

4. CHANGES TO THE TEMPORARY TRAFFIC CONTROL PLAN SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE OWNER, ENGINEER, AND PERMITTING AUTHORITY IF APPLICABLE.

### $\mathcal{X}$ EX. LIGHT POLE BORING LOCATION $\mathfrak{X}$ EX. SIGN NEW LIGHT POLE NEW SIGN EX. POWER POLE NEW PROPERTY PIN SET NEW GREASE TRAP EX. PROPERTY PIN FOUND RIGHT OF WAY MARKER NEW CLEAN OUT HIGH WATER LINE EX. SANITARY MANHOLE PARKING COUNT NEW SANITARY MANHOLE DOWN SPOUT DS● EX. STORM MANHOLE EXPANSION JOINT NEW STORM MANHOLE EX. STORM CATCH BASIN \_\_\_\_\_x\_\_\_\_\_ FX. FENCE NEW STORM CATCH BASIN EX. CULVERT FLARE END EX. GUARDRAIL $\triangleright$ NEW CULVERT FLARE END EX. HEADWALL ---- EX. EASEMENT NEW HEADWALL ---- NEW EASEMENT EX. GATE VALVE ———— — — EX. PROPERTY LINE NEW GATE VALVE ----- NEW ROW/PROPERTY LINE EX. WATERLINE FITTINGS PROPERTY BOUNDARY LINE NEW WATERLINE FITTINGS EX. CURB NEW TAPPING SLEEVE & VALVE NEW CURB(INFLOW) EX. HYDRANT NEW CURB(OUTFLOW) NEW HYDRANT & VALVE EX. STUMP EX. SHRUB ----s---s EX. SANITARY SEWER EX. DECIDUOUS TREE ----s---s ----- NEW SANITARY SEWER EX. CONIFEROUS TREE 0 NEW SHRUB NEW DECIDUOUS TREE ———ST ———— ST — EX. STORM SEWER NEW CONIFEROUS TREE

EX. ELECTRICAL TRANSFORMER

EX. TELEPHONE PEDISTAL

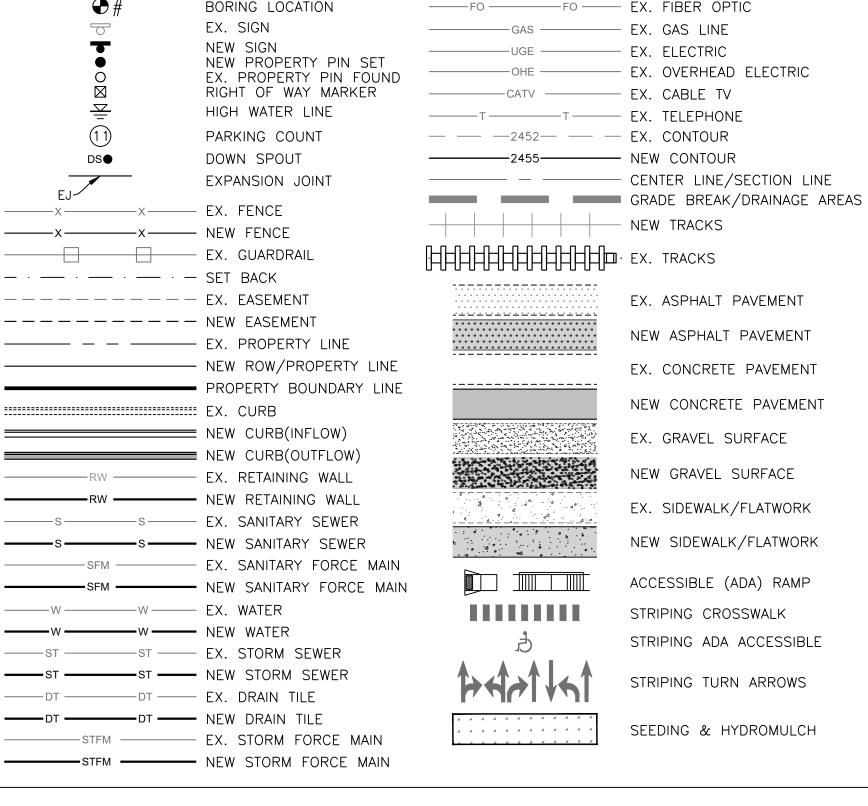
EX. ELECTRICAL OUTLET

EX. UTILITY PEDISTAL

ELEC MANHOLE EXIST

E.O.

U.P.



### **ABBREVIATIONS**

----st ------ NEW STORM SEWER

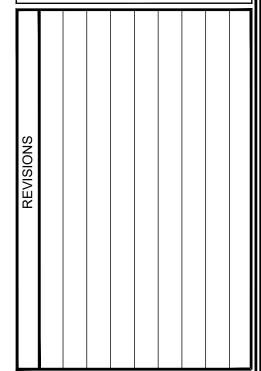
—— DT ——— DT ——— EX. DRAIN TILE

——DT ——DT —— NEW DRAIN TILE

LEGEND

		_			
ADJ	ADJACENT	ELEV	ELEVATION	P.C.	PRECAST CONCRETE
ALT	ALTERNATE	ENCL	ENCLOSURE	PVIE	POINT OF VERTICAL
ARCH	ARCHITECT	E.O.P.	END OF PROJECT	· · · · -	INTERSECTION ELEVATION
ACP	ASBESTOS CEMENT PIPE	E.J.	EXPANSION JOINT	PVIS	POINT OF VERTICAL
BIT	BITUMINOUS	EX.	EXISTING		INTERSECTION STATION
BLDG	BUILDING	EX.A.	EACH WAY	PREFAB	PREFABRICATED
ВМ	BENCHMARK	EVCE	END VERTICAL CURVE	PSI	POUNDS PER SQUARE INCH
B.O.	BY OWNER/BY OTHERS		ELEVATION	PVC	POLYVINYL CHLORIDE PIPE
B.O.P.	BEGINNING OF PROJECT	EVCS	END VERTICAL CURVE STATION		POWER POLE
BV	BUTTERFLY VALVE	FD	FIRE DEPARTMENT	R	RADIUS
BVCE	BEGINNING VERTICAL CURVE	FFE	FIRST FLOOR ELEVATION	RCP	REINFORCED CONCRETE PIPE
2.02	ELEVATION	FO	FIBER OPTICS	RD	ROOF DRAIN
BVCS	BEGINNING VERTICAL CURVE	FTG	FOOTING	REQ'D	REQUIRED
		G.C.	GENERAL CONTRACTOR	RIM	RIM OF INLET OR CASTING
С	CIVIL	GALV	GALVANIZED	ROW	RIGHT OF WAY
B.P.	CAST IRON	GAL	GALLON	SAN	SANITARY
CIP	STATION CIVIL CAST IRON CAST IRON PIPE	GRAN	GRANULAR	SS ST	SANITARY SEWER
CU	COPPER	GV	GATE VALVE	ST	STORM
CMP	CORRUGATED METAL PIPE	HDPE	HIGH DENSITY POLYETHYLENE	STD	STANDARD
CJ	CONTROL JOINT	HORZ	HORIZONTAL HOSE BIB HANDICAPPED HYDRANT INLET CURVATURE VALUE MECHANICAL MANHOLE MAXIMUM MINIMUM MECHANICAL JOINT	SB	SOIL BORING
CONC	CONCRETE	HB	HOSE BIB	STRUCT	STRUCTURAL
CF	CUBIC FEET	HDCP	HANDICAPPED	SF	SQUARE FEET
CS	CURB STOP	HYD	HYDRANT	SCH	SCHEDULE
C.O.	CLEAN OUT	1	INLET	SW	SIDEWALK
CNTR	CENTER	K	CURVATURE VALUE	T	TELEPHONE
CONST	CONSTRUCTION	М	MECHANICAL	TYP	TYPICAL
CONTR	CONTRACTOR	МН	MANHOLE	UNEX	UN-EXCAVATED
CY	CUBIC YARD	MAX	MAXIMUM	UE	UTILITY EASEMENT
DIA	DIAMETER	MIN	MINIMUM	UGE	UNDERGROUND ELECTRIC
DIP	DUCTILE IRON PIPE	M.J.	MECHANICAL JOINT	UNO	UNLESS NOTED OTHERWISE
DEMO	DEMOLITION	MISC.	MISCELLANEOUS	VERI	VERTICAL
DTL	DETAIL	NC	NON-CORROSIVE	V	VERIFY
DIM	DIMENSION	NOM	NOMINAL	VCL	VERTICAL CURVE LENGTH
DOM	DOMESTIC	NIC	NOT IN CONTRACT	VOL	VOLUME
D.S.	DOWN SPOUT	NIS	NOT TO SCALE	VCP	VITRIFIED CLAY PIPE
DWG	DRAWING	00	OUTSIDE DIMENSION	W/	WITH
DWL	DOWEL	OCEW	ON CENTER EACH WAY	W/O	WITH OUT
EA	EACH	00	ON CENTER	WTH	WIDTH
ELEC	CAST IRON CAST IRON PIPE COPPER CORRUGATED METAL PIPE CONTROL JOINT CONCRETE CUBIC FEET CURB STOP CLEAN OUT CENTER CONSTRUCTION CONTRACTOR CUBIC YARD DIAMETER DUCTILE IRON PIPE DEMOLITION DETAIL DIMENSION DOMESTIC DOWN SPOUT DRAWING DOWEL EACH ELECTRIC	OHE	OVERHEAD ELECTRIC	W	WATER





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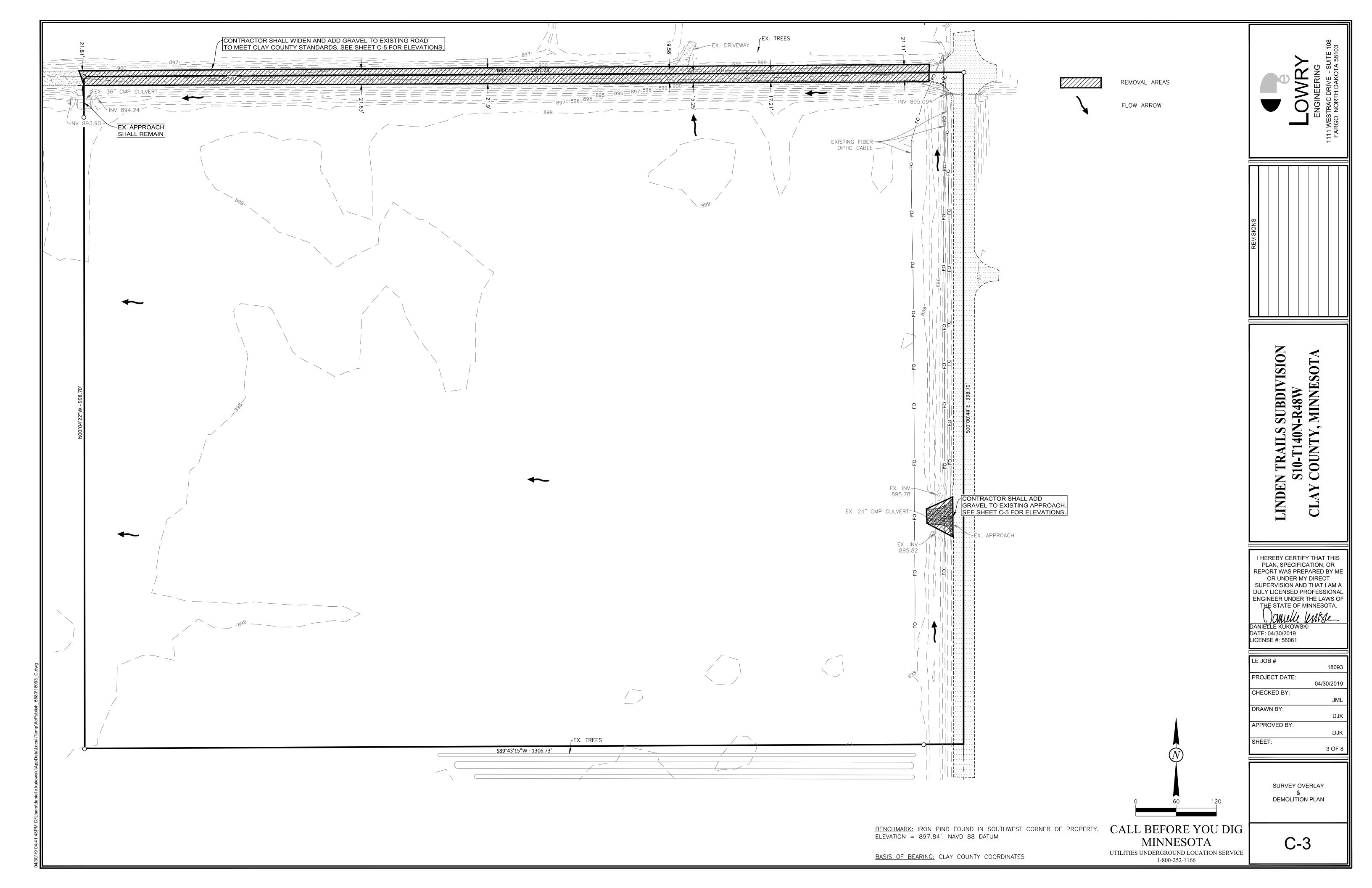
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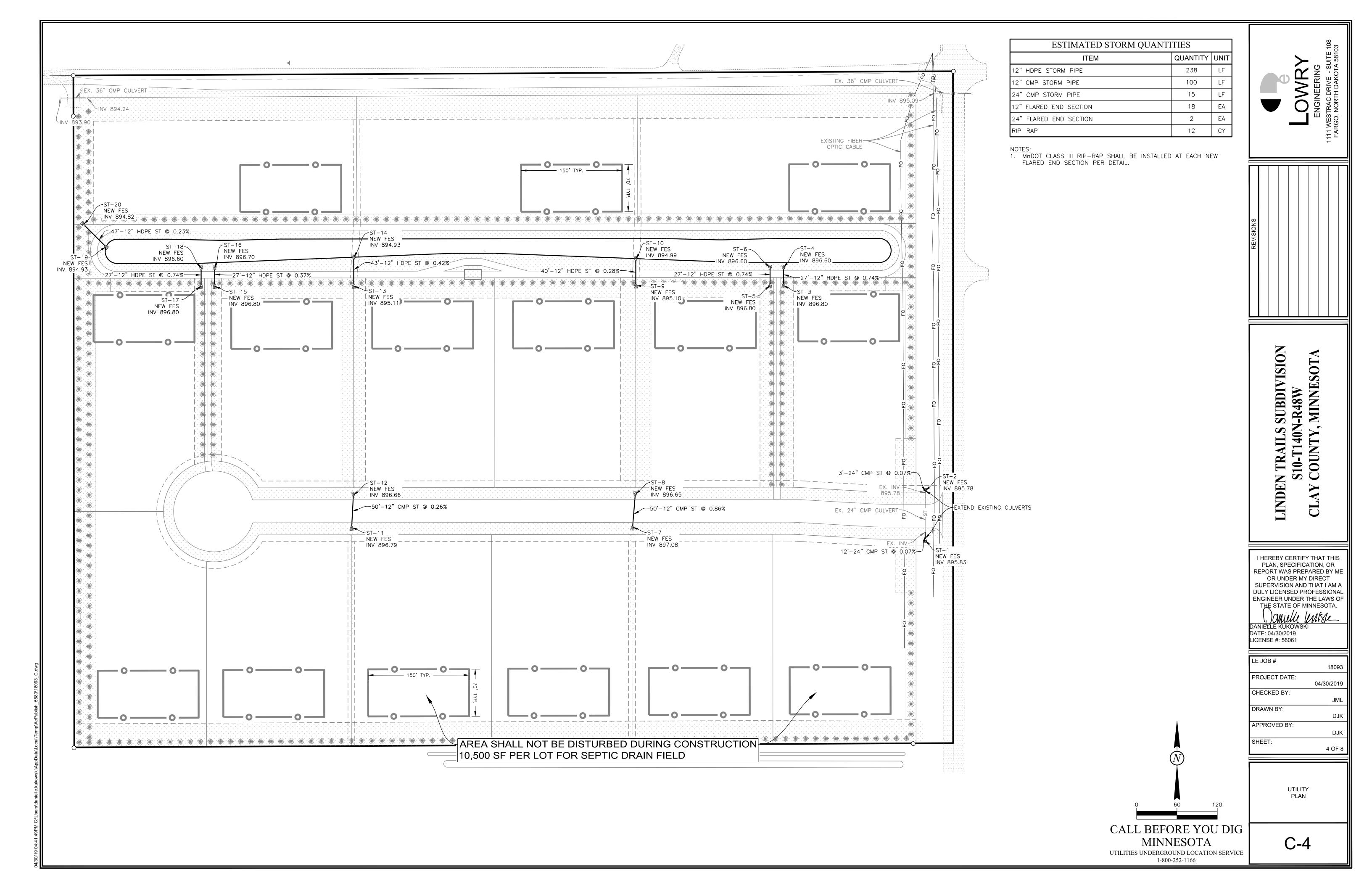
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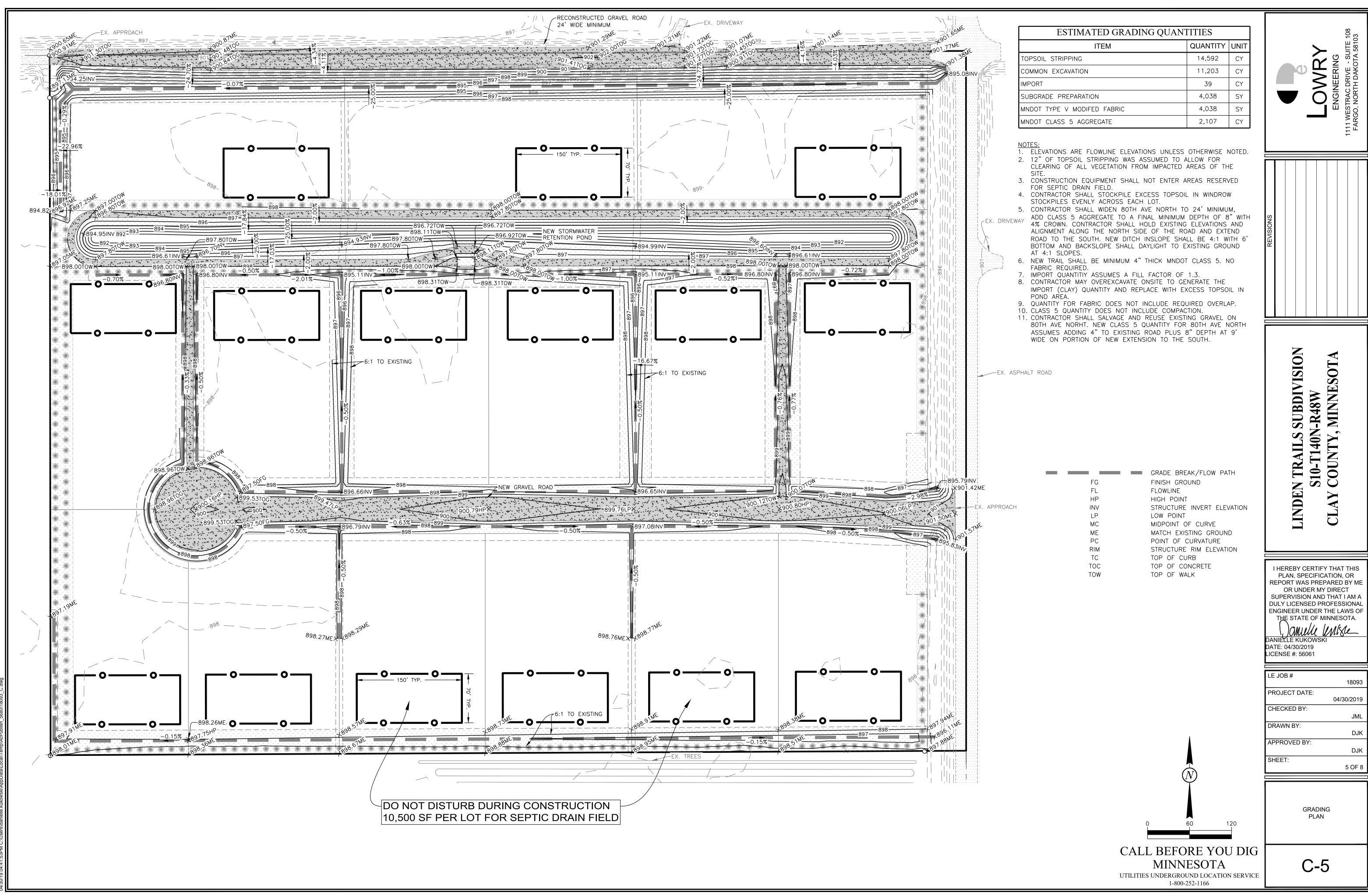
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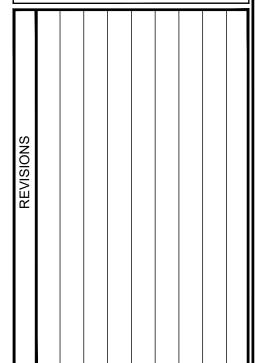
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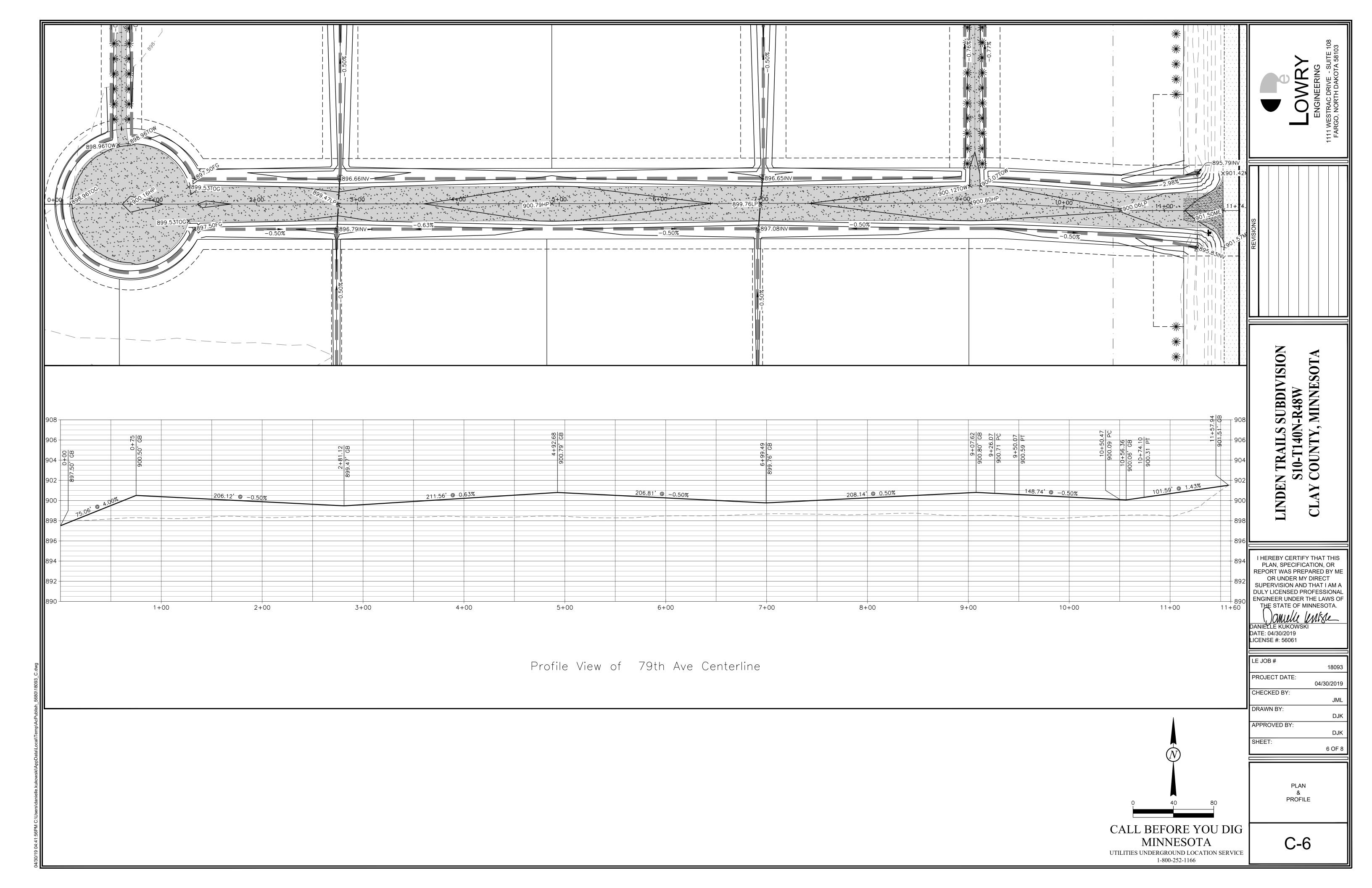
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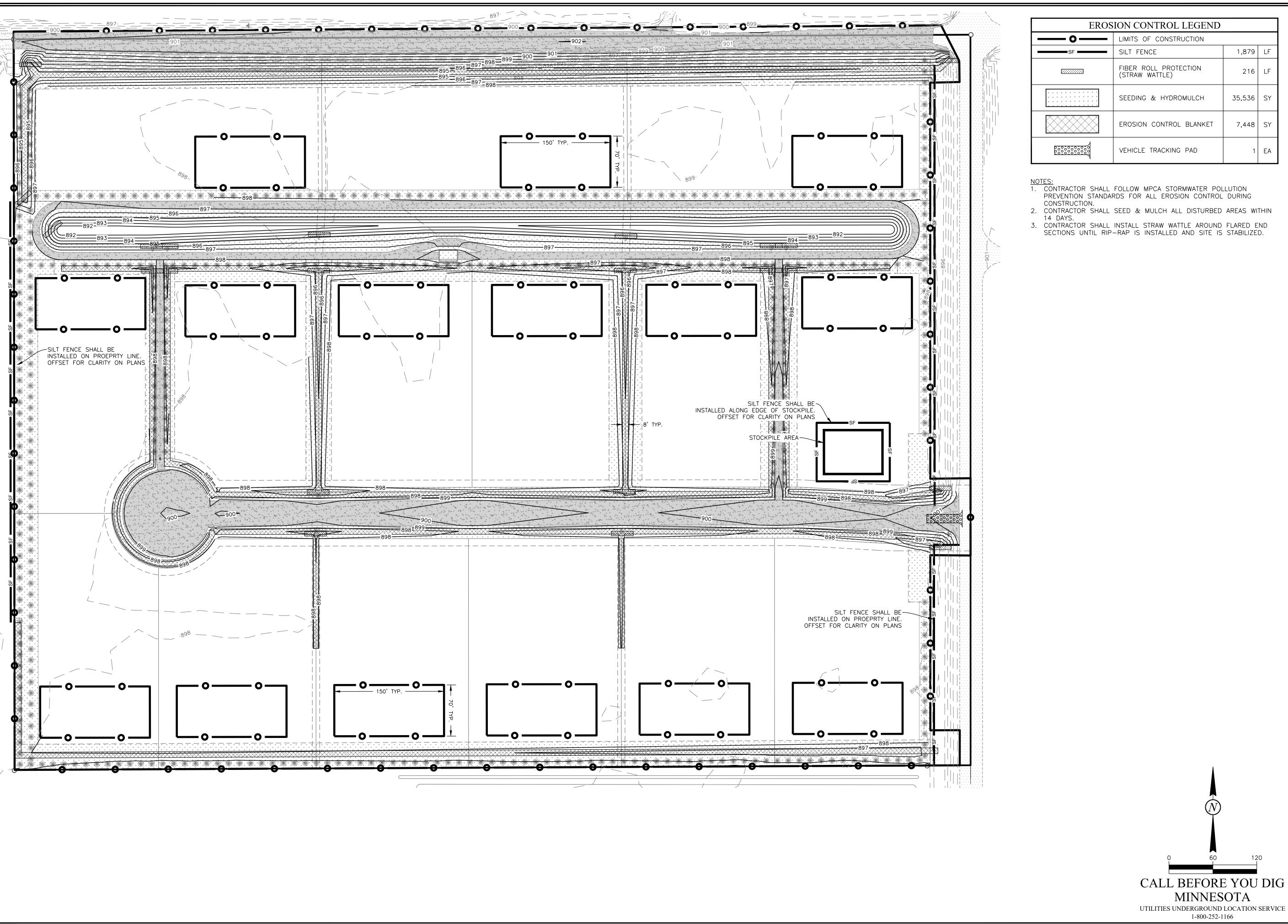


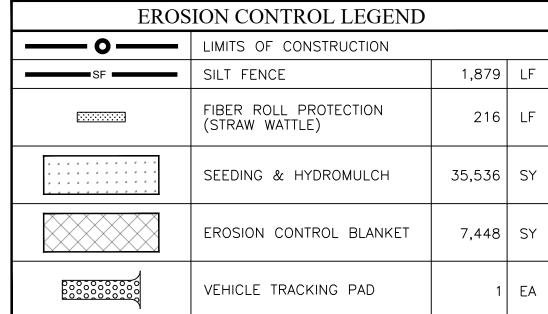


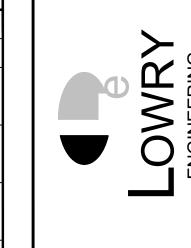




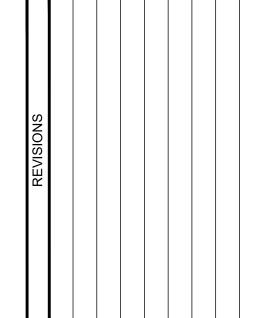








- PREVENTION STANDARDS FOR ALL EROSION CONTROL DURING
- 3. CONTRACTOR SHALL INSTALL STRAW WATTLE AROUND FLARED END



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

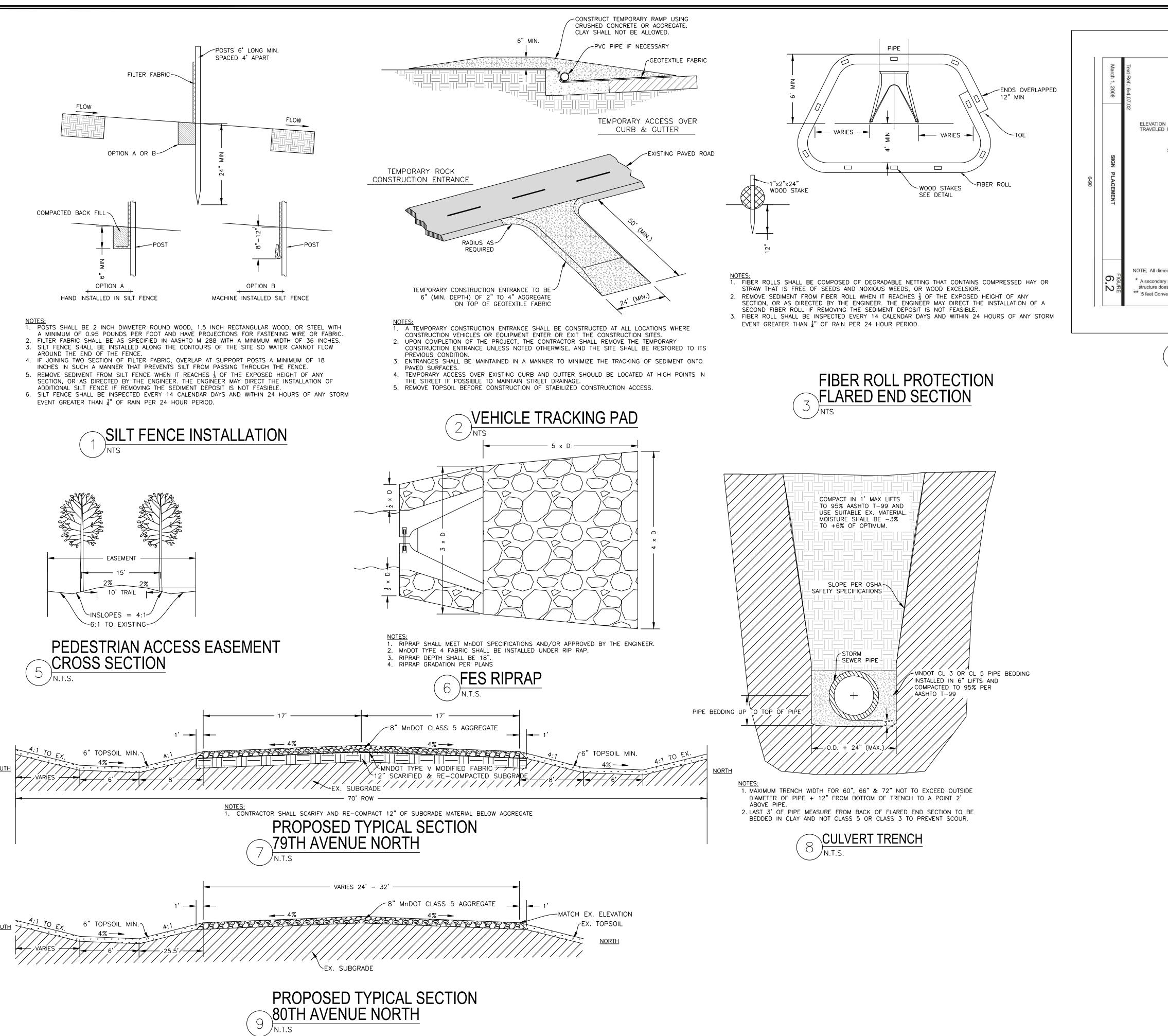
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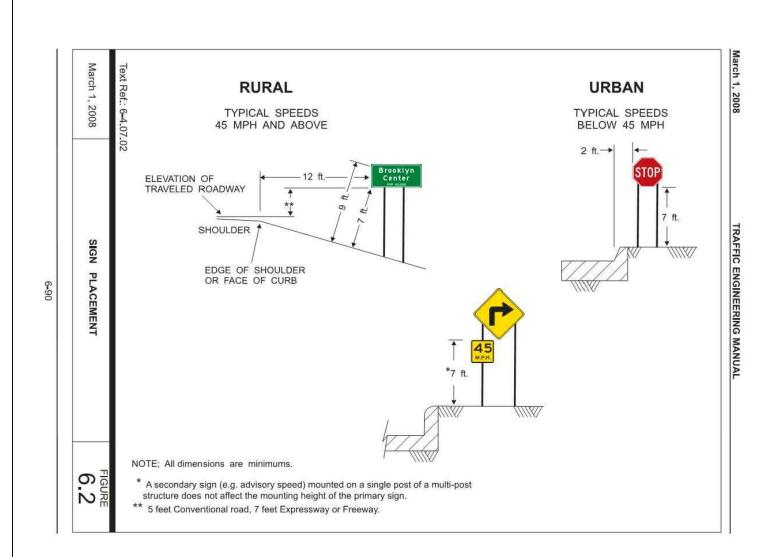
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**EROSION** & SEDIMENT CONTROL PLAN

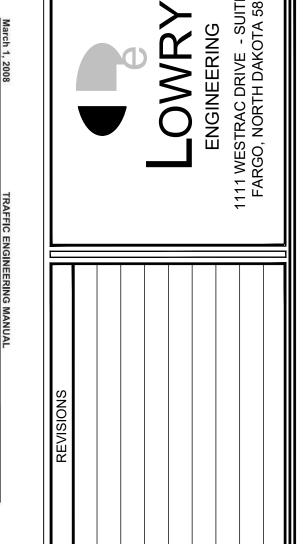
CALL BEFORE YOU DIG MINNESOTA

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STOP SIGN PLACEMENT



# SUBDIVISION N-R48W MINNESOTA 0

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

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PROJECT DATE:	04/30/2019
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	DJK
APPROVED BY:	
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	8 OF 8

DETAILS

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