

	SURVEY INFOR	RMATION
DATE OF SURVEY		
COORDINATE SYST	EM	N CENTF
DRAWING UNITS		
VERTICAL DATUM		
NOTES		

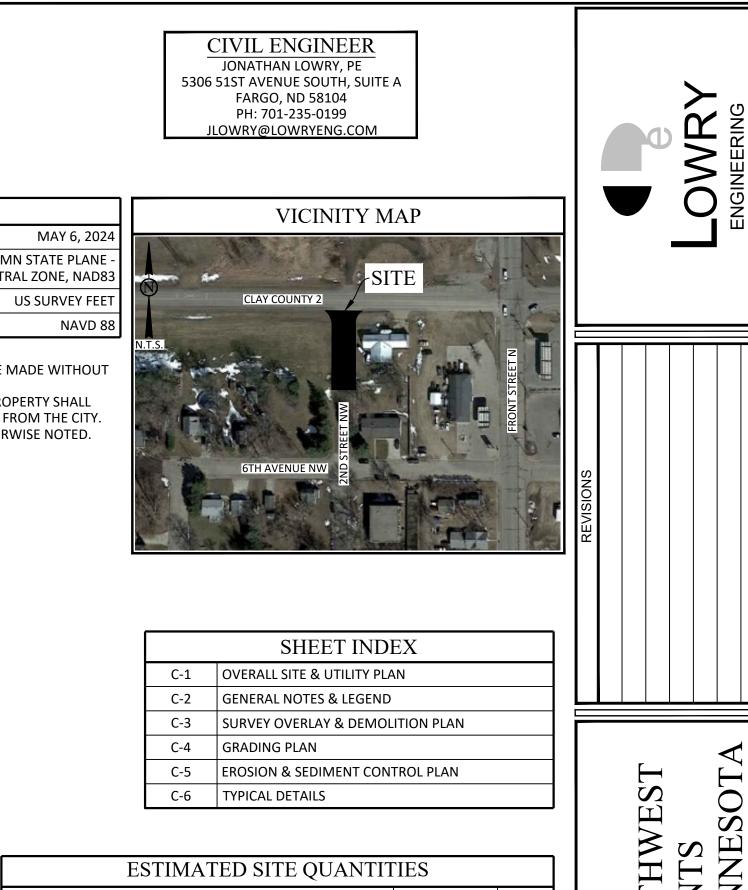
NOTES: 1. CHANGES TO APPROVED PLANS SHALL NOT BE MADE WITHOUT

OWNER'S WRITTEN APPROVAL

- CHANGES TO APPROVED PLANS ON PUBLIC PROPERTY SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL FROM THE CITY.
   DIMENSIONS ARE TO FLOWLINE UNLESS OTHERWISE NOTED.

BENCHMARK: IRON PIN LOCATED IN THE NW CORNER OF CENEX PROPERTY. ELEV = 1011.01.

BASIS OF BEARING: ASSUMED



ESTIMATED SITE QUANTITIES					
ITEM	QUANTITY	UNI			
8" CONCRETE PAVEMENT	744	SY			
18" CMP PIPE	80	LF			
18" FES	2	EA			
RAISE EX. RIM	1	EA			

TYPICAL DETAILS

C-6

CALL BEFORE YOU DIG MINNESOTA UTILITIES UNDERGROUND LOCATION SERVICE

1-800-252-1166

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C-1

OVERALL

SITE & UTILITY PLAN

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06/10/2024

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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ATE: 6/10/24 ICENSE #: 49127

PROJECT DATE:

CHECKED BY:

APPROVED BY:

DRAWN BY:

LE JOB #

## 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 CITY STANDARD SPECIFICATIONS LATEST REVISION. IN THE CASE OF A DISCREPANCY BETWEEN THE PLANS AND SPECIFICATIONS, THE PLANS SHALL GOVERN.
- 5. 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 CITY OWNED UTILITIES SHALL REQUIRE NOTIFICATION TO THE CITY BY THE CONTRACTOR 24 HOURS PRIOR TO COMMENCING WORK.
- 8. THE CONTRACTOR SHALL COMPLY WITH ALL RULES & REGULATIONS OF FEDERAL, STATE, COUNTY, & LOCAL AUTHORITIES. 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.
- 20. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING SHOP DRAWINGS TO THE ENGINEER FOR REVIEW OF ALL APPLICABLE PRODUCTS AND MATERIALS BEING USED FOR CONSTRUCTION.
- 21. ALL UNDERGROUND WORK IN THE DIRECT VICINITY SHALL BE COMPLETED PRIOR TO COMPLETION OF SUBGRADE PREPARATION AND START OF ROADWAY WORK INCLUDING BUT NOT LIMITED TO INSTALLATION OF FABRIC, GRAVEL, PAVING, ETC.
- 22. TESTING FREQUENCIES SHALL BE AS FOLLOWS: 22.1. AGGREGATE BASE GRADATION: 1 TEST PER 300 CY OF COMPACTED VOLUME.
- 22.2. AGGREGATE DENSITY: SPECIFIED DENSITY. 1 TEST PER LIFT. PROOFROLL PRIOR TO PAVING,
- CONTRACTOR SHALL VIDEO AND PROVIDE TO ENGINEER IN DIGITAL FORMAT FOR REVIEW. 22.3. AGGREGATE MOISTURE: 1 PER DENSITY TEST.
- 22.4. CONCRETE AIR, SLUMP, TEMPERATURE: 1 PER 100 CY AND FIRST LOAD PLACED PER DAY OF EACH 22.5. CONCRETE COMPRESSIVE STRENGTH: 1 SET OF CYLINDERS PER 100 CY, NO LESS THAN 1 EACH
- 22.6. SUBGRADE COMPACTION: 1 PROCTOR PER SOIL TYPE AND 1 SPECIFIED DENSITY PER LIFT.

## GRADING NOTES:

- LOCATION AND TOP ELEVATIONS OF INLETS AND 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
- 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 CITY STANDARD SPECIFICATIONS.
- 4. COMPACTION LIFTS AND TESTING SHALL BE PER CITY REQUIREMENTS IN TRENCHING, SUB-BASE, BASE, AND PAVING MATERIALS. SUB-BASE LIFTS SHALL NOT EXCEED 12". BASE LIFTS SHALL NOT EXCEED 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 MNDOT.
- AGGREGATE BASE COURSE SHALL MEET THE REQUIREMENTS OF MNDOT.
- CONCRETE FOR FLAT WORK SHALL BE A BATCH PLANT MIX MEETING THE REQUIREMENTS OF THE MNDOT STANDARD SPECIFICATIONS. (MINIMUM 4,000 PSI )
- 4. HOT BITUMINOUS PAVEMENT SHALL BE A PLANT MIX MEETING THE REQUIREMENTS OF THE MNDOT STANDARD SPECIFICATIONS (LATEST EDITION). PAINTED PARKING STRIPING SHALL BE WATER BASED 4" IN WIDTH YELLOW STRIPES AND BE LOCATED
- AS SHOWN ON THE PLANS. ACCESSIBLE PARKING STRIPING SHALL BE BLUE AND PER ADA REQUIREMENTS. GORE AREA LINES SHALL BE PAINTED AT 45 DEGREES AND SHALL HAVE A SPACING OF 3'. CURE COMPOUND SHALL BE REMOVED BY SANDBLASTING, GRINDING, OR OTHER APPROVED METHOD BEFORE INSTALLATION OF PAVEMENT MARKINGS ON CONCRETE TO ENSURE PROPER ADHESION OF THE PAINT. ALL WORK SHALL BE IN ACCORDANCE WITH THE MNDOT REQUIREMENTS.
- THE CONTRACTOR SHALL SUBMIT A JOINTING PLAN FOR CONCRETE PAVEMENT TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. IF NO JOINTING PLAN IS SUBMITTED, THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR JOINTING LAYOUT.

### STORM SEWER & DRAINAGE NOTES:

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

- INVERTS SHOWN ON PLAN DRAWINGS ARE PIPE INVERTS UNLESS NOTED OTHERWISE.
- ANY SUBSTITUTION FOR MATERIALS OR PROCEDURES MUST HAVE PRIOR WRITTEN APPROVAL OF THE CITY AND THE PROJECT ENGINEER. 4. STORM SEWER NOT BURIED AT LEAST 6' BELOW FINISH GRADE IS SUBJECT TO FREEZING. HEAT TAPE
- MAY BE INSTALLED TO MITIGATE FUTURE MAINTENANCE.
- 5. ANNOTATED LENGTH OF CULVERT INCLUDES LENGTH OF FLARED END SECTION. FOR CLARIFICATION: ANNOTATED LENGTH = PIPE LENGTH + FES LENGTH.

### DEMOLITION NOTES

- CONCRETE CURB AND GUTTER TO BE REMOVED SHALL BE SAW CUT IN FULL SECTIONS. CONTRACTOR SHALL SAW CUT EXISTING PAVEMENT FOR REMOVAL. PAVEMENT SHALL BE REMOVED IN FULL SECTIONS.
- 3. LIMITS OF STREET PATCHING AND PATCHING REQUIREMENTS SHALL BE VERIFIED WITH THE CITY.

EROSION & SEDIMENT CONTROL / SWPPP NOTES

- I. 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 SUBMITTAL.
- 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.**
- 4. 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 COMPLETED AND DOCUMENTED BY THE CONTRACTOR AT LEAST ONCE EVERY 7 DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 1/2" IN 24 HOURS. 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.
- THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL EXCESS TOPSOIL, EXCAVATED MATERIAL, RUBBISH, TRASH, DEBRIS, AND ORGANIC MATERIAL CONSISTENT WITH LOCAL LAW AND WITH THE GENERAL PERMIT.
- 9. 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. 10. ALL DISTURBED AREAS SHALL BE SEEDED AND HYDROMULCHED UNLESS SHOWN OTHERWISE IN THE
- PLANS.
- 11. 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.
- 12. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE, SEDIMENT REMOVAL/CLEANING, AND REPLACEMENT AS REQUIRED FOR ALL EROSION AND SEDIMENT CONTROL ITEMS
- 13. CONTRACTOR IS RESPONSIBLE FOR SWEEPING AND CLEANING ANY SEDIMENT TRACKED ONTO ADJACENT ROADWAYS DURING CONSTRUCTION AS NEEDED TO KEEP STREETS CLEAR OF SEDIMENT.
- 14. EROSION CONTROL BLANKET SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS FOR LAYDOWN PATTERN, REQUIRED OVERLAP WIDTH, TRENCHING, STAPLE PATTERN, ETC.
- 15. CHEMICAL STORAGE ONSITE SHALL BE IN COMPLIANCE WITH THE GENERAL PERMIT. 16. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF INLET PROTECTION THROUGHOUT THE DIFFERENT PHASES OF CONSTRUCTION REGARDLESS OF THE TYPE OF PROTECTION. THE QUANTITY FOR ONE (1) INLET PROTECTION SHALL COVER INSTALLATION, CLEANING, REPLACEMENT, ETC. FROM THE TIME THE MANHOLE IS SET UNTIL FINAL STABILIZATION OF THE ENTIRE AREA DRAINING TO THE INLET. FOR EXAMPLE: ONE (1) INLET PROTECTION QUANTITY MAY COVER BUT IS NOT LIMITED TO: SILT FENCE AROUND MANHOLE PRIOR TO LID AND CASTING BEING INSTALLED, REMOVAL OF SILT FENCE AROUND MANHOLE AFTER CASTING HAS BEEN INSTALLED, INSTALLATION OF DEVICE SUCH AS DANDY SACK INSIDE CASTING, REMOVAL OF SEDIMENT FROM DANDY SACK, REMOVAL OF DANDY SACK FROM CASTING AFTER ALL UPSTREAM AREAS ARE STABILIZED.
- 17. OWNER SHALL REFER TO THE STORMWATER MANAGEMENT PLAN FOR MAINTENANCE REQUIREMENTS OF THE PERMANENT STORMWATER QUANTITY/QUALITY CONTROL MEASURES.

## SEEDING NOTES:

- 1. ALL SEEDING MIX SHALL CONSIST OF THE FOLLOWING: -KENTUCKY BLUEGRASS = 60% BY WEIGHT, 90% PURITY, 85% GERMINATION -CREEPING RED FESCUE = 10% BY WEIGHT, 90% PURITY, 85% GERMINATION -FINE LEAF PERENNIAL RYEGRASS = 30% BY WEIGHT, 95% PURITY, 90% GERMINATION
- -PERCENT BY WEIGHT SHALL BE ± 5% ON ALL SEED TYPES. -RATE OF SEEDING SHALL BE 220 POUNDS PER ACRE (5 POUNDS PER 1,000 SF)
- 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. CONTRACTOR IS RESPONSIBLE FOR WATERING TO ESTABLISH GRASS GROWTH TO A HEIGHT OF 3".
- 8. FERTILIZER SHALL BE 12-24-12 AT AN APPLICATION RATE OF 220 POUNDS PER ACRE (5 POUNDS PER 1,000 SF)
- 9. CONTRACTOR SHALL FOLLOW STATE AND LOCAL LAWS REGARDING THE USE OF PHOSPHORUS FERTILIZER.

## **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.

₩ Ċ X X C	EX. LIGHT POLE NEW LIGHT POLE EX. POWER POLE		<del>,</del>	NEW PROPERTY PIN SET EX. PROPERTY PIN FOUND RIGHT OF WAY MARKER PROJECT BENCHMARK
)	EX. GUY-LINE	ě	,#	BORING LOCATION
CO	EX. CLEAN OUT			HIGH WATER LINE
	NEW CLEAN OUT			
0	EX. SANITARY MANHOLE	(#)		PARKING COUNT
	NEW SANITARY MANHOLE	DS		DOWN SPOUT
$\bigcirc$	EX. STORM MANHOLE	۲	)	BOLLARD
	NEW STORM MANHOLE	X	X	— EX. FENCE
	EX. STORM CATCH BASIN	x	x	- NEW FENCE
	NEW STORM CATCH BASIN			— EX. GUARDRAIL
$\triangleright$	EX. CULVERT FLARED END	· ·		— SET BACK
$\triangleright$	NEW CULVERT FLARED END			— EX. EASEMENT
- Harrison Contraction of the Co	DRAINAGE FLOW DIRECTION			— NEW EASEMENT
¢	EX. GATE VALVE			EX. PROPERTY LINE
	NEW GATE VALVE			NEW ROW/PROPERTY LINE
	A <ex. fittings<="" p="" waterline=""></ex.>			PROPERTY BOUNDARY LINE
	NEW WATERLINE FITTINGS			EX. CURB
<b>X</b> .	NEW TAPPING SLEEVE & VALVE			NEW CURB(INFLOW)
<u> </u>	EX. HYDRANT			NEW CURB(OUTFLOW)
- <b>•</b> •	NEW HYDRANT & VALVE			— EX. RETAINING WALL
		RW		- NEW RETAINING WALL
	PIPE INSULATION	S	S	— EX. SANITARY SEWER
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•	NEW SIGN	SFN	1	— EX. SANITARY FORCE MAIN
- A A A A A A A A A A A A A A A A A A A	EX. STUMP	SFM	1	- NEW SANITARY FORCE MAIN
0	EX. SHRUB	W		— EX. WATER
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en and a second s	EX. DECIDUOUS TREE	ST	ST	— EX. STORM SEWER
		ST	ST	NEW STORM SEWER
*	EX. CONIFEROUS TREE	DT	DT	— EX. DRAIN TILE
_		DT	DT	- NEW DRAIN TILE
	EX. ELECTRICAL TRANSFORMER	STFN	//	EX. STORM FORCE MAIN
	EX. UTILITY PEDISTAL	STFN	/	- NEW STORM FORCE MAIN
E	ELEC MANHOLE EXIST	SF	SF	SILT FENCE

# ABBREVIATIONS

ELEV

ENCL

E.O.P.

EX.A.

EVCE

EVCS

FD

FFE

FO

FTG

G.C.

GAL

GV

GALV

GRAN

HDPE

HORZ

HDCP

HYD

MH

MAX

MIN

MISC.

NOM

M.I.

NC

NIC

NTS

OD

OC

OHE

P.C.

OCEW

HB

E.J.

EX.

LEGEND

ADJACENT ALTERNATE ARCHITECT ASBESTOS CEMENT PIPE BITUMINOUS BUILDING BENCHMARK BY OWNER/BY OTHERS BEGINNING OF PROJECT BUTTERFLY VALVE BEGINNING VERTICAL CURVE ELEVATION BEGINNING VERTICAL CURVE STATION CIVIL 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

ADJ

ALT

ARCH

ACP

BLDG

BIT

BM

B.O.

B.O.P.

BVCE

BVCS

B.P.

CIP

CU

CL

CF

CS

C.O.

CNTR

CONST

CONTR

CY

DIA

DIP

DTL

DIM

DOM

DWG

DWL

ELEC

ELECTRIC

FΑ

D.S.

DEMO

CMP

CONC

ELEVATION ENCLOSURE END OF PROJECT EXPANSION JOINT EXISTING EACH WAY END VERTICAL CURVE ELEVATION END VERTICAL CURVE STATION FIRE DEPARTMENT FIRST FLOOR ELEVATION FIBER OPTICS FOOTING GENERAL CONTRACTOR GALVANIZED GALLON GRANULAR GATE VALVE HIGH DENSITY POLYETHYLENE HORIZONTAL HOSE BIB HANDICAPPED HYDRANT INLET CURVATURE VALUE MECHANICAL MANHOLE MAXIMUM MINIMUM MECHANICAL JOINT MISCELLANEOUS NON-CORROSIVE NOMINAL NOT IN CONTRACT NOT TO SCALE OUTSIDE DIMENSION ON CENTER EACH WAY ON CENTER OVERHEAD ELECTRIC PRECAST CONCRETE	
FIRE DEPARTMENT FIRST FLOOR ELEVATION FIBER OPTICS FOOTING GENERAL CONTRACTOR GALVANIZED GALLON GRANULAR GATE VALVE HIGH DENSITY POLYETHYLENE HORIZONTAL HOSE BIB HANDICAPPED HYDRANT INLET CURVATURE VALUE MECHANICAL MANHOLE MAXIMUM MINIMUM MECHANICAL JOINT MISCELLANEOUS NON-CORROSIVE NOMINAL NOT IN CONTRACT NOT TO SCALE OUTSIDE DIMENSION ON CENTER EACH WAY ON CENTER OVERHEAD ELECTRIC	ENCLOSURE END OF PROJECT EXPANSION JOINT EXISTING EACH WAY END VERTICAL CURVE ELEVATION
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MAXIMUM MINIMUM MECHANICAL JOINT MISCELLANEOUS NON-CORROSIVE NOMINAL NOT IN CONTRACT NOT TO SCALE OUTSIDE DIMENSION ON CENTER EACH WAY ON CENTER OVERHEAD ELECTRIC	HANDICAPPED HYDRANT INLET CURVATURE VALUE
NOMINAL NOT IN CONTRACT NOT TO SCALE OUTSIDE DIMENSION ON CENTER EACH WAY ON CENTER OVERHEAD ELECTRIC	MAXIMUM MINIMUM MECHANICAL JOINT MISCELLANEOUS
	NOMINAL NOT IN CONTRACT NOT TO SCALE OUTSIDE DIMENSION ON CENTER EACH WAY ON CENTER OVERHEAD ELECTRIC

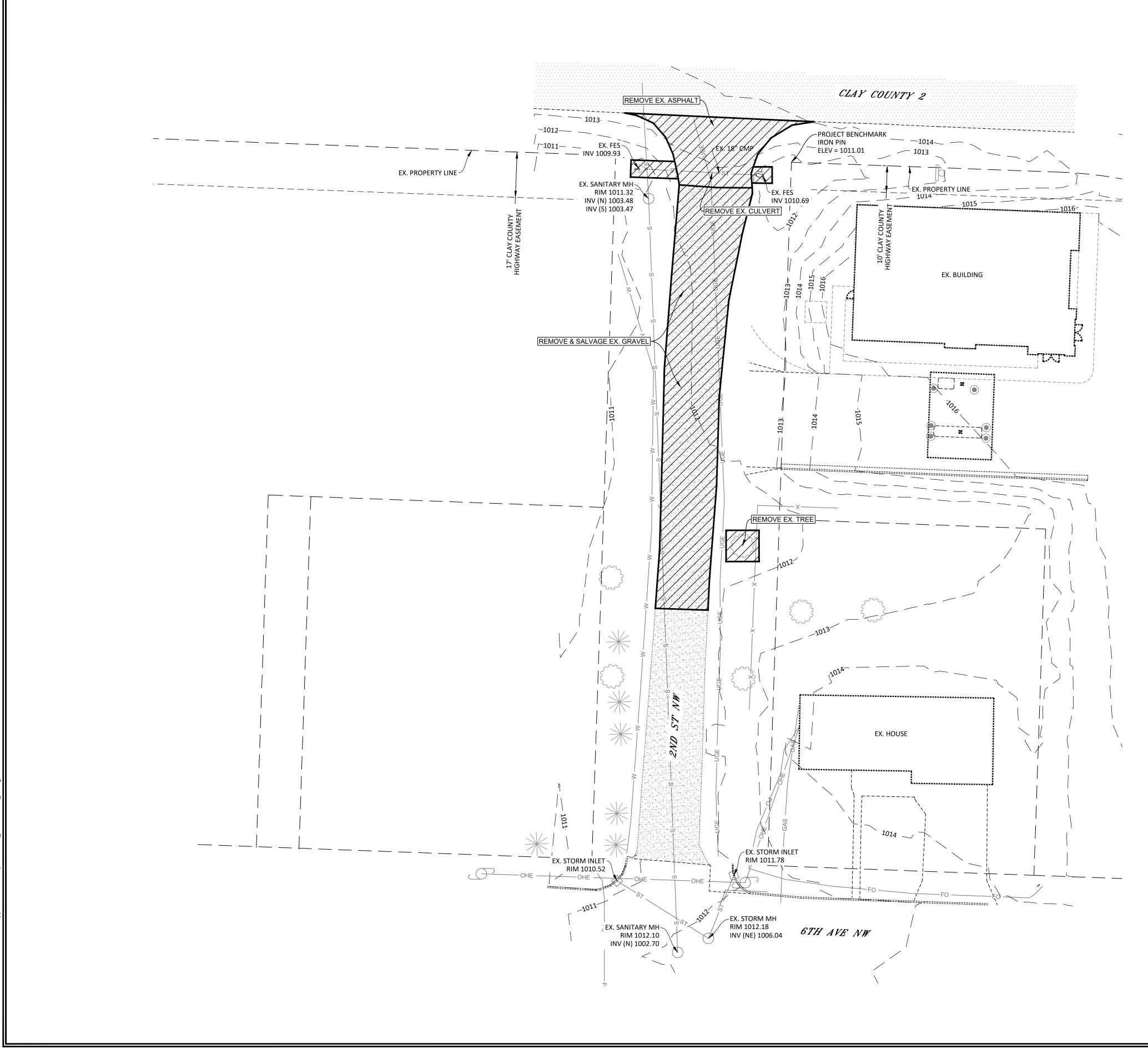
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FOFO				
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	EX. OVERHEAD ELECTRIC			
CATV				
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— — —1111— — —				
1111				
	GRADE BREAK/FLOW PATH		1	
	CENTER LINE/SECTION LINE			
	· NEW TRACKS			<del></del>
	EX. TRACKS			
	EX. ASPHALT PAVEMENT			
	NEW ASPHALT PAVEMENT			
	EX. CONCRETE PAVEMENT			
	NEW CONCRETE PAVEMENT		NOI	
	EX. GRAVEL SURFACE		REVISIONS	
	NEW GRAVEL SURFACE			
	EX. SIDEWALK/FLATWORK			
	NEW SIDEWALK/FLATWORK			
	ACCESSIBLE (ADA) RAMP WITH TRUNCATED DOME PANEL			
	STRIPING CROSSWALK			
E.	STRIPING ADA ACCESSIBLE			
1+44+4	STRIPING TURN ARROWS			
	SEEDING & HYDROMULCH			
<u>·····································</u>				

SEEDING & EROSION

CONTROL BLANKET

PVIE	POINT OF VERTICAL INTERSECTION
PVIS	ELEVATION POINT OF VERTICAL INTERSECTION
	STATION
PREFAB	PREFABRICATED
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE PIPE
РР	POWER POLE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REQ'D	REQUIRED
RIM	RIM OF INLET OR CASTING
ROW	RIGHT OF WAY
SAN	SANITARY
SS	SANITARY SEWER
ST	STORM
STD	STANDARD
SB	SOIL BORING
STRUCT	STRUCTURAL
SF	SQUARE FEET
SCH	SCHEDULE
SW	SIDEWALK
Т	TELEPHONE
ТҮР	TYPICAL
UNEX	UN-EXCAVATED
UE	UTILITY EASEMENT
UGE	UNDERGROUND ELECTRIC
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
V	
VCL	VERTICAL CURVE LENGTH
VOL VCP	VOLUME VITRIFIED CLAY PIPE
W/	WITH
W/O	
WTH W	WIDTH WATER
vv	WAIEN

			Û			ENGINEERING		FARGO, NORTH DAKOTA 58104	
REVISIONS									
	2ND STREET NORTHWEST IMPROVEMENTS 3ARNESVILLE, MINNESOTA								
R S DI EI JOI DA	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.							IE A AL	
PF CH DF	LE JOB # 24070 PROJECT DATE: 06/10/2024 CHECKED BY: JML DRAWN BY: TWT APPROVED BY: JML						24 1L /T		
	GENERAL NOTES & LEGEND								



### - REMOVAL AREAS //////

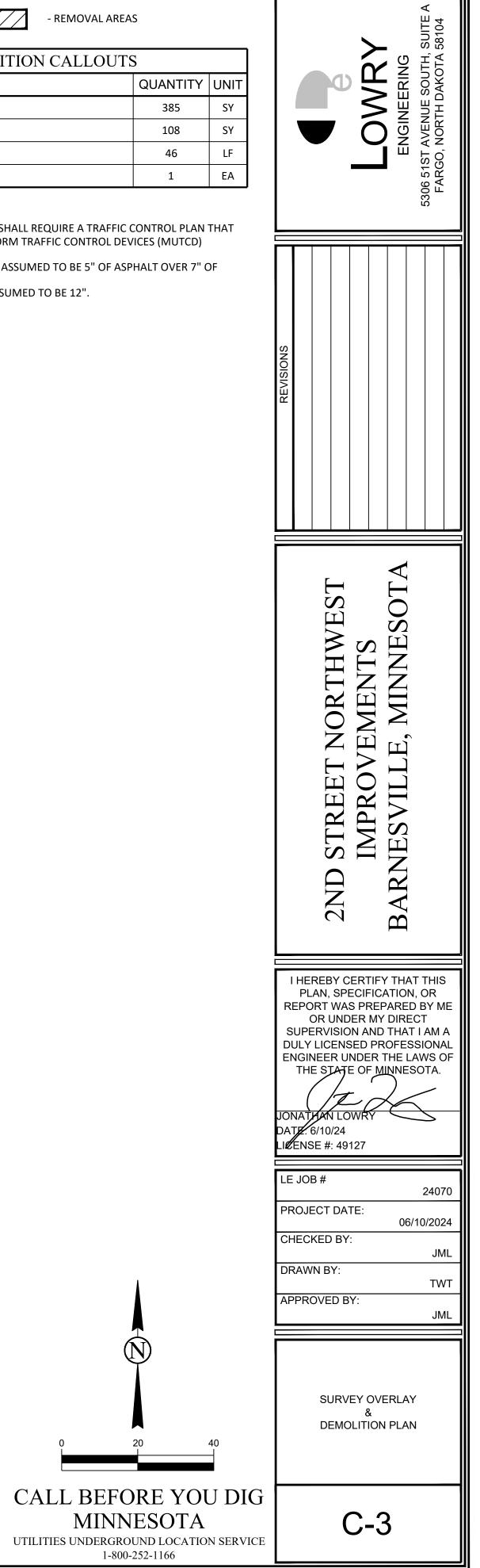
## DEMOLITION CALLOUTS

ITEM	QUANTITY	UNIT
REMOVE & SALVAGE EX. GRAVEL	385	SY
REMOVE EX. ASPHALT	108	SY
REMOVE EX. CULVERT	46	LF
REMOVE EX. TREE	1	EA

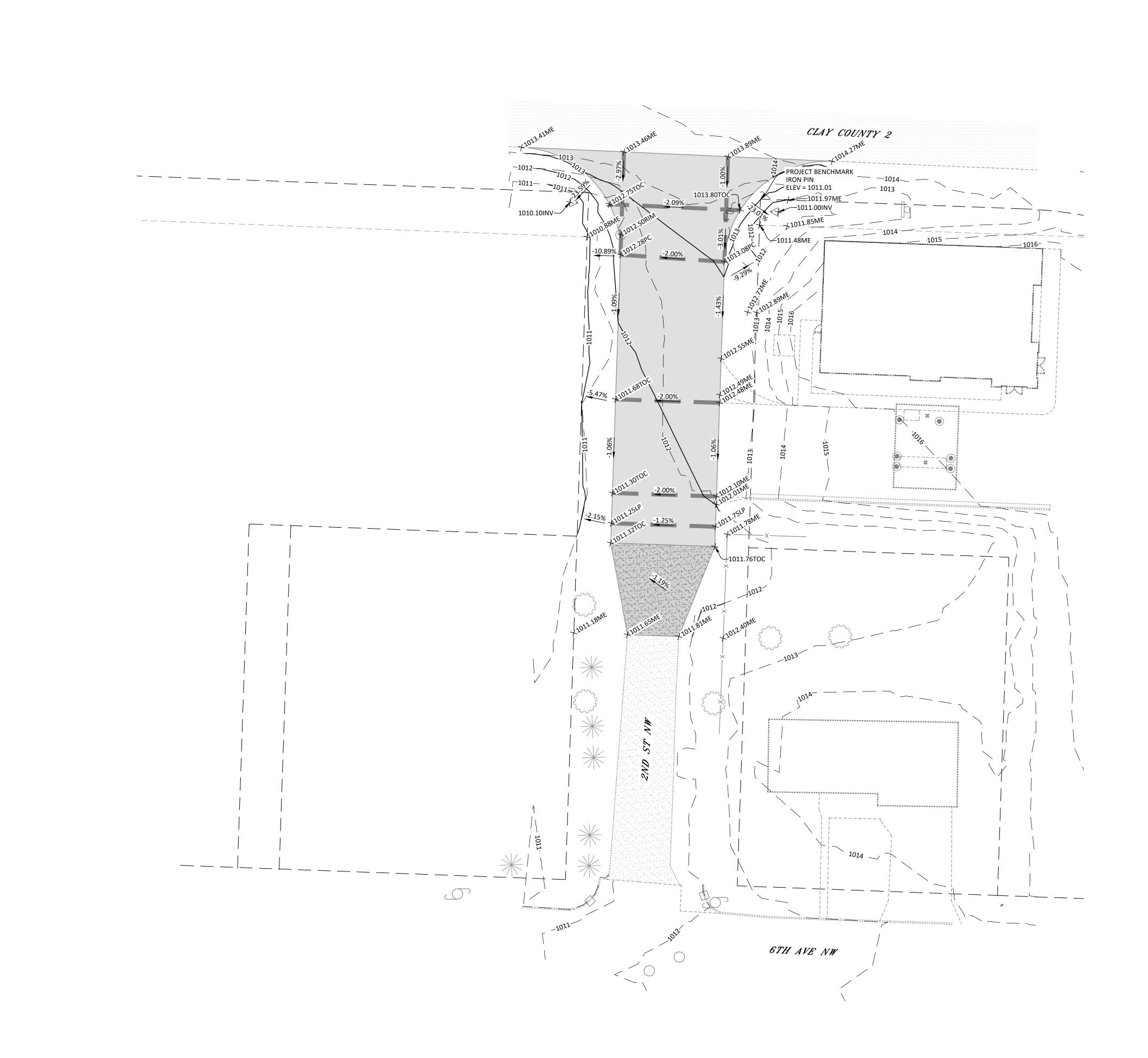
1. WORK IN THE RIGHT-OF-WAY SHALL REQUIRE A TRAFFIC CONTROL PLAN THAT MEETS ALL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)

MINNESOTA

REQUIREMENTS. 2. EXISTING ASPHALT SECTION IS ASSUMED TO BE 5" OF ASPHALT OVER 7" OF AGGREGATE BASE. 3. EXISTING GRAVEL DEPTH IS ASSUMED TO BE 12".







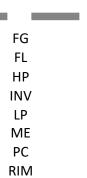
ESTIMATED GRADING QUANT	<b>FITIES</b>	
ITEM	QUANTITY	UNI
6" TOPSOIL STRIPPING	135	CY
6" TOPSOIL SPREADING	74	CY
COMMON EXCAVATION	60	СҮ
EXPORT	115	CY
SUBGRADE PREPARATION/GEOTEXTILE FABRIC	898	SY

299

CY

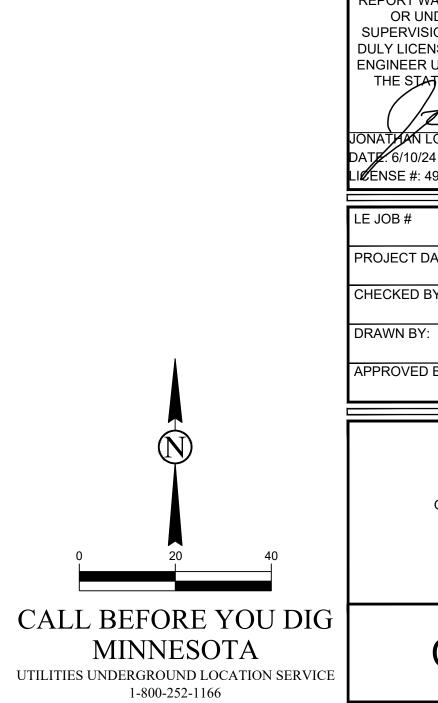
AGGREGATE BASE & SURFACE

- NOTES:
   6" OF TOPSOIL STRIPPING WAS ASSUMED TO ALLOW FOR CLEARING OF ALL VEGETATION FROM THE SITE.
   COMMON EXCAVATION AND EXPORT QUANTITIES ASSUME A FILL FACTOR OF 1.3.
- NO COMPACTION WAS ASSUMED IN THE QUANTITY FOR AGGREGATE BASE.
   AGGREGATE BASE AND GEOTEXTILE FABRIC QUANTITY ASSUME IT EXTENDS TO 1'
- BEYOND EDGE OF PAVEMENT. 5. GEOTEXTILE FABRIC PANELS SHALL BE A MINIMUM OF 12' WIDE AND INSTALLED WITH A MINIMUM OVERLAP OF 18" WITH JOINTS ORIENTATED TO FOLLOW
- TRAFFIC MOVEMENT. 6. GEOTEXTILE FABRIC QUANTITY DOES NOT INCLUDE REQUIRED OVERLAP. 7. GEOTEXTILE FABRIC SHALL BE MNDOT TYPE 5 AND MEET REQUIREMENTS OF MNDOT SECTION 3733.



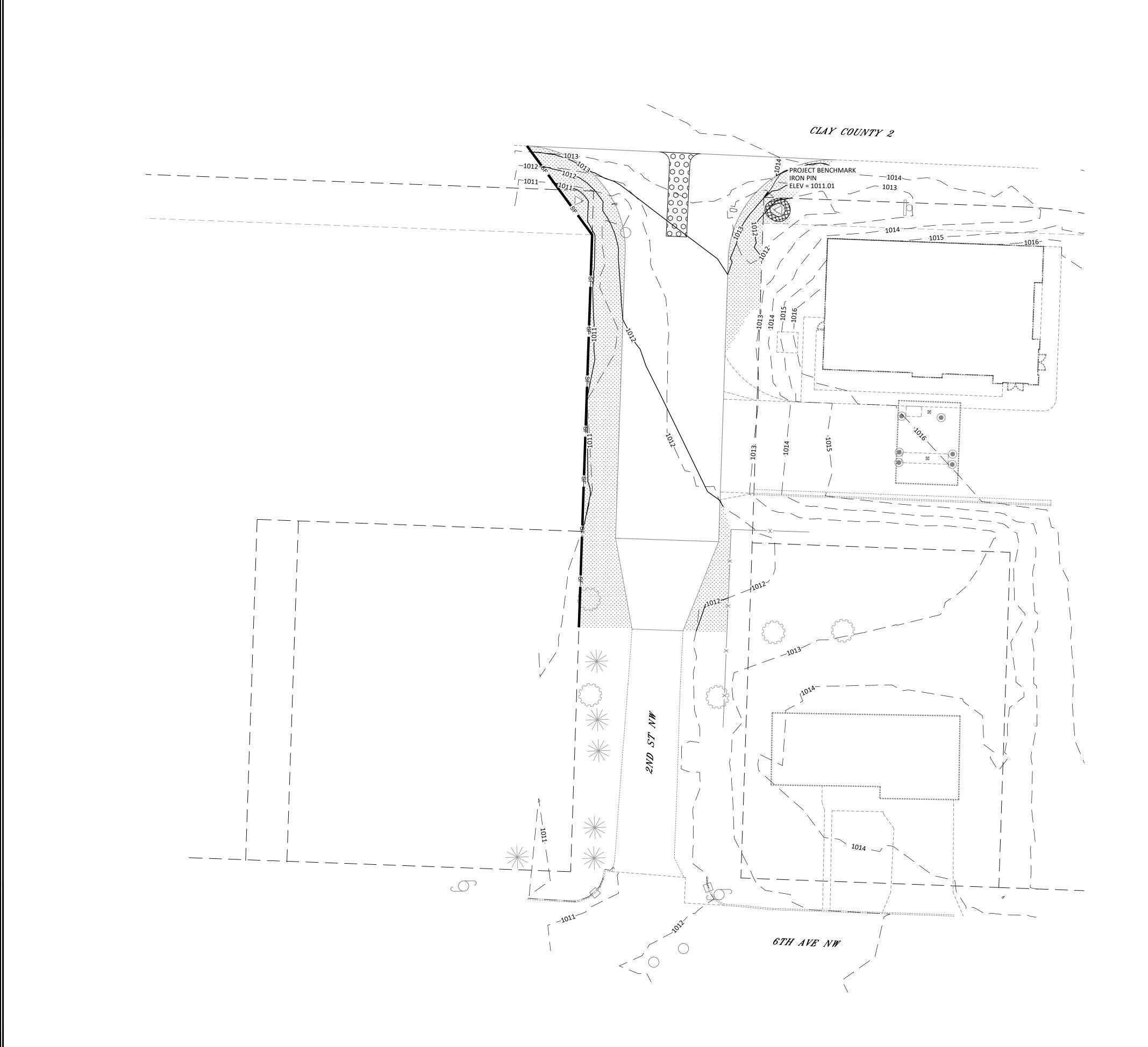
TOC

GRADE BREAK/FLOWLINE FINISH GROUND FLOWLINE HIGH POINT STRUCTURE INVERT ELEVATION LOW POINT MATCH EXISTING GROUND POINT OF CURVATURE STRUCTURE RIM ELEVATION TOP OF CONCRETE



				Ð			ENGINEERING		5306 5151 AVENUE SOUTH, SUITE A FARGO, NORTH DAKOTA 58104	
	REVISIONS									
	2ND STREET NORTHWEST IMPROVEMENTS 3ARNESVILLE, MINNESOTA									
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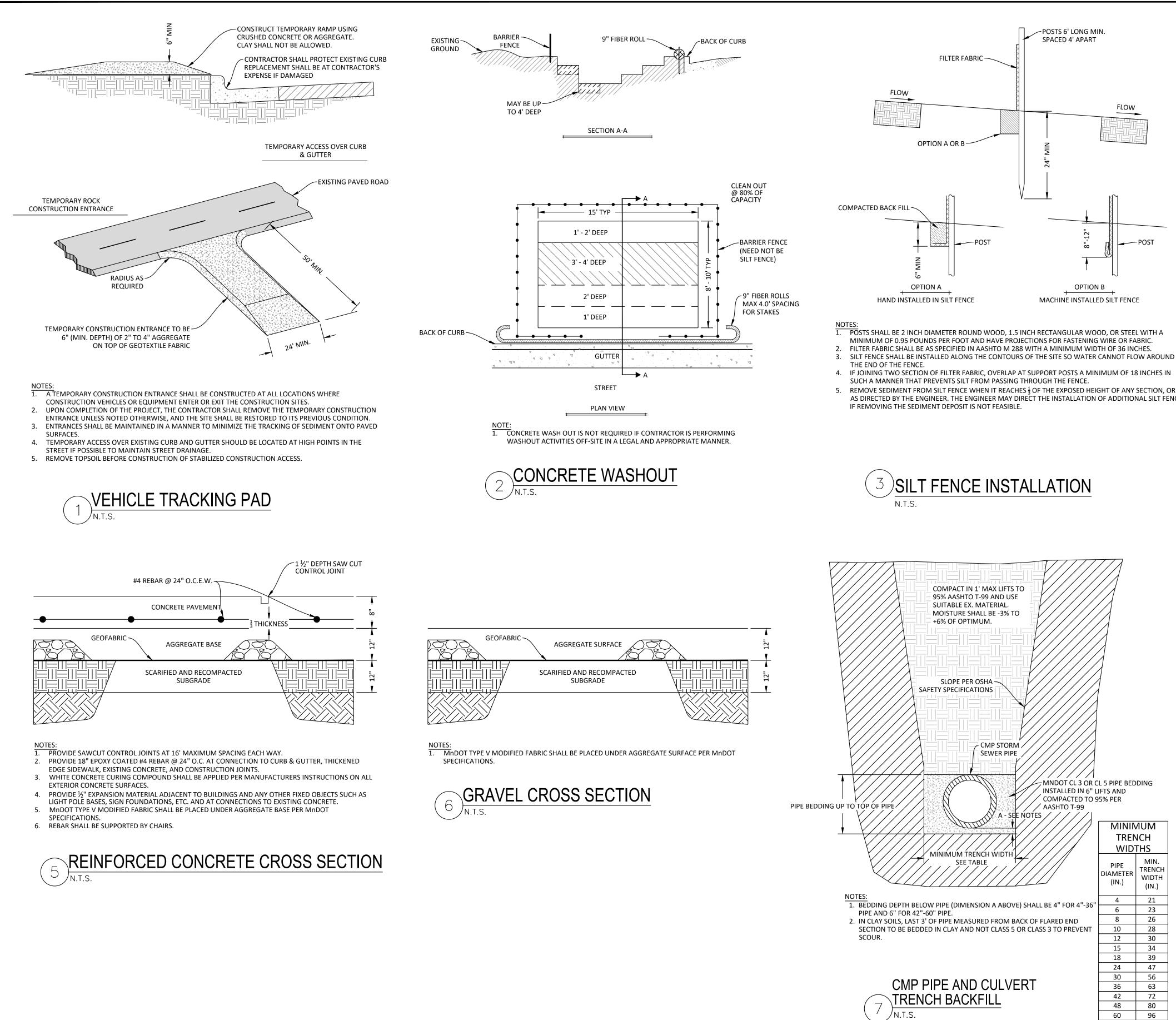


EROSION CONTROL LEGEND						
SF	SILT FENCE	195	LF			
	FIBER ROLL PROTECTION (STRAW WATTLE)	29	LF			
	SEEDING & HYDROMULCH	437	SY			
	VEHICLE TRACKING PAD	1	EA			

### NOTES:

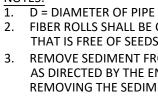
- 1. CONTRACTOR SHALL FOLLOW MPCA STORMWATER POLLUTION PREVENTION STANDARDS FOR ALL EROSION CONTROL DURING CONSTRUCTION.
- 2. CONTRACTOR SHALL INSTALL PERIMETER EROSION AND SEDIMENT CONTROLS
- PRIOR TO ANY LAND DISTURBING ACTIVITY. 3. IF CONCRETE WASHOUT WILL OCCUR ONSITE, CONTRACTOR SHALL COORDINATE LOCATION WITH OWNER.
- 4. CONTRACTOR IS RESPONSIBLE FOR ALL INSTALLATION, MAINTENANCE, REPLACEMENT IF NECESSARY, REMOVAL, ETC OF ANY AND ALL PROTECTION MEASURES NEEDED FROM THE START OF CONSTRUCTION UNTIL FINAL PERMANENT STABILIZATION IS ACHIEVED.
- 5. A FODS TRACKOUT CONTROL MAT MAY BE USED AS AN APPROVED EQUAL TO THE VEHICLE TRACKING PAD. CONTRACTOR SHALL SUBMIT PROPOSED MAT LAYOUT TO ENGINEER FOR REVIEW PRIOR TO INSTALLING.

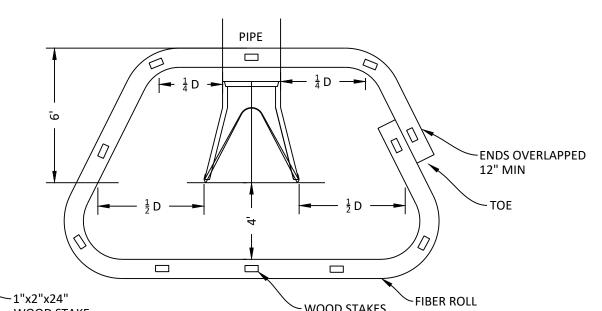
CONTROL LEGEND			IITE . 104
FENCE	195	LF	
	192		
R ROLL PROTECTION AW WATTLE)	29	LF	ENGINE SOUTH, SUITE FARGO, NORTH DAKOTA 58104
DING & HYDROMULCH	437	SY	
CLE TRACKING PAD	1	EA	5306 51 FARC
MPCA STORMWATER POLLUTION CONTROL DURING CONSTRUCTIO ERIMETER EROSION AND SEDIME IG ACTIVITY. OCCUR ONSITE, CONTRACTOR SH FOR ALL INSTALLATION, MAINTEI REMOVAL, ETC OF ANY AND ALL F START OF CONSTRUCTION UNTIL ACHIEVED. IAT MAY BE USED AS AN APPRON RACTOR SHALL SUBMIT PROPOSE TO INSTALLING.	ON. ENT CONTRO ALL COORDII NANCE, PROTECTION L FINAL /ED EQUAL T	OLS NATE O THE	BEVISIONS
			2ND STREET NORTHWEST 2ND STREET NORTHWEST IMPROVEMENTS BARNESVILLE, MINNESOTA
			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. JONATHAN LOWRY DATE: 6/10/24 LIZENSE #: 49127
			LE JOB #
			24070 PROJECT DATE:
			CHECKED BY:
			JML DRAWN BY:
			TWT
			JML
		-	EROSION & SEDIMENT CONTROL PLAN
CALL BEFORE MINNES UTILITIES UNDERGROUND 1-800-252-1	OTA LOCATION		C-5





- 5. REMOVE SEDIMENT FROM SILT FENCE WHEN IT REACHES <sup>1</sup>/<sub>2</sub> OF THE EXPOSED HEIGHT OF ANY SECTION, OR AS DIRECTED BY THE ENGINEER. THE ENGINEER MAY DIRECT THE INSTALLATION OF ADDITIONAL SILT FENCE





## WOOD STAKE

~ WOOD STAKES SEE DETAIL

ESTIMATED QUANTITIES FES DIAMETER (IN) FIBER ROLL (LF)							
27							
28							
29							
30							
31							
32							
33							
34							

FIBER ROLLS SHALL BE COMPOSED OF DEGRADABLE NETTING THAT CONTAINS COMPRESSED HAY OR STRAW THAT IS FREE OF SEEDS AND NOXIOIUS WEEDS, OR WOOD EXCELSIOR. REMOVE SEDIMENT FROM FIBER ROLL WHEN IT REACHES  $rac{1}{3}$  OF THE EXPOSED HEIGHT OF ANY SECTION, OR AS DIRECTED BY THE ENGINEER. THE ENGINEER MAY DIRECT THE INSTALLATION OF A SECOND FIBER ROLL IF REMOVING THE SEDIMENT DEPOSIT IS NOT FEASIBLE.



	The second secon										
REVISIONS											
	2ND STREET NORTHWEST IMPROVEMENTS BARNESVILLE, MINNESOTA										
RI S DI EN JON DA	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. JONATHAN LOWRY DATE: 6/10/24 LICENSE #: 49127										
PR	LE JOB # 24070 PROJECT DATE: 06/10/2024										
DF	CHECKED BY: JML DRAWN BY: TWT APPROVED BY:										
	JML										
	DETAILS										
	C-6										