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SD	C703	CIVIL STANDARD DETAILS
SD	C704	CIVIL STANDARD DETAILS
SD	C705	CIVIL STANDARD DETAILS
SD	C706	CIVIL STANDARD DETAILS
SD	C707	CIVIL STANDARD DETAILS
SD	C708	CIVIL STANDARD DETAILS
3D V V V	C709	CTIVIL-STANDARD-DETAILS V
SD	C710	CIVIL STANDARD DETAILS
SB	8701	STANDARD DETAILS
SD	S702	STANDARD DETAILS
SD	S901	WINDOW FRAME PLAN, ELEVATION, & ISOMETRIC VIEWS
SD	P700	SECTION - PITLESS WELL
SD	P700	PROCESS STANDARD DETAILS - CHEMICALS
SD SD	P701	PROCESS STANDARD DETAILS - CHEMICALS  PROCESS STANDARD DETAILS - CHEMICALS
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SD SD	P703	
		PROCESS STANDARD DETAILS - PIPE PENETRATIONS
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SD	P706	PROCESS STANDARD DETAILS - PIPE PENETRATIONS
SD	P707	PROCESS STANDARD DETAILS - PIPE SUPPORTS
SD	P708	PROCESS STANDARD DETAILS - PIPE SUPPORTS
SD	P709	PROCESS STANDARD DETAILS - PIPE SUPPORTS
SD	P710	PROCESS STANDARD DETAILS - SAMPLE TAPS AND VENTS
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SD	E603	VARIOUS WIRING SCHEMATICS
SD	E604	VARIOUS WIRING SCHEMATICS
SD	E605	VARIOUS WIRING SCHEMATICS
SD	E606	VFD WIRING SCHEMATIC
SD	E607	VFD WIRING SCHEMATIC
SD	E608	VFD WIRING SCHEMATIC
SD	E609	VFD WIRING SCHEMATIC
SD	E610	VFD WIRING SCHEMATIC
SD	E611	VFD WIRING SCHEMATIC
SD	E612	STARTER WIRING SCHEMATIC
SD	E613	CHEMICAL TRUCK FILL SCHEMATIC
SD	E614	VFD WIRING SCHEMATIC
SD	E615	VFD WIRING SCHEMATIC
SD	E701	VARIOUS DETAILS
SD	E702	VARIOUS DETAILS
SD	E703	VARIOUS DETAILS
SD	E704	VARIOUS DETAILS
SD	E705	VARIOUS DETAILS
SD	E706	VARIOUS DETAILS
SD	E801	CABLE AND CONDUIT SCHEDULE
SD	E802	CABLE AND CONDUIT SCHEDULE
SD	E803	CABLE AND CONDUIT SCHEDULE
SD	E804	CABLE AND CONDUIT SCHEDULE
SD	E805	CABLE AND CONDUIT SCHEDULE
JD	12000	TOADEL AND GONDON SCHEDULE

			1
	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER WIT DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.  SIGNATURE:  TYPED NAME: AARON S. VOLLMER  JUNE 30, 2025 REG. NO. 51398	Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively	
	STATUS: CONSTRUCTION		
TOTI ODD OT A TOO OW A TOIGHT INININ	1 9-2-25 ADDENDUM No. 2		ASV
MINNELRISTA WOODLAND COVE WIT PROJECT	SYM DATE DESCRIPTION	4	APPR
Advanced Engineering and Environmental Services, LLC www.ae2s.com			

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PROJECT NO: 05355-2023-002
DATE: JULY 2025
ALT. PROJECT NO: 00000-0000

CITY OF MINNETRISTA

MINNESTRISTA, MINNESOTA

DATE: JULY 2025

ALT. PROJECT NO: 00000-0000

PREPARED BY: SGR

CHECKED BY: RM

APPROVED BY: ASV



	SANITARY	
DESCRIPTION	EXISTING	NEW
	PIPE	
SANITARY GRAVITY	ss	
SANITARY FORCEMAIN	—— FM ———	
	STRUCTURES	
MANHOLE	S	S
CLEAN OUT	co	co
METER MANHOLE	M	M
SEPTIC TANK	ST	ST
VAULT	S	S
LIFTSTATION		L
	VALVES	
GATE		X
BUTTERFLY		
PLUG	•	•
	FITTINGS	
WYE (R)	\$	-
WYE (L)	白	
PLUG	1	1
CAP	1	1

STORM				
DESCRIPTION	EXISTING	NEW		
	PIPE			
STORM MAIN	SD			
DRAIN TILE				
OVERFLOW				
	STRUCTURES			
MANHOLE	D	D		
OVERFLOW MANHOLE		D		
AREA INLET				
BEEHIVE INLET	$\otimes$	$\otimes$		
CURB INLET				
CLEANOUT	co	60		
OUTFALL				

	GAS						
DESCRIPTION	EXISTING	NEW					
LINES							
NATURAL GAS	G	G					
	STRUCTURES						
MANHOLE	G	G					
METER	G	G					
	VALVES						
GATE VALVE		×					

	SITE	
DESCRIPTION	EXISTING	NEW
	VEGETATION	VIV.
CONIFEROUS TREE (LARGE)	**	
CONIFEROUS TREE (SMALL)	*	*
DECIDUOUS TREE (LARGE)	~~~~ ~~~~	
DECIDUOUS TREE (SMALL)	G	8
SHRUB	0	0
STUMP	· ·	0
TREE LINE		
	SIGNAGE	
STREET SIGN		
MILE POST	<u>MP</u>	MP
	SITE	
BUILDING		
CURB		
CONCRETE	46, 4	4
BITUMINOUS PAVEMENT		
STRUCTURAL CONCRETE		
GRAVEL	KKKK	
	FENCES	
BARBED WIRE	xx	xx
CHAIN LINK		<b></b>
WOOD		
VINYL		_ <b></b>
WOVEN WIRE		—
GUARD RAIL		
SILT	SF	
SUPER SILT	SSF	
GATE POST	(GP)	
	TOPOLOGY	
CONTOURS	<u> </u>	900
	BOUNDARY	
PROPERTY LINE		
EASEMENT		
CONSTRUCTION EASEMENT		

**EROSION CONTROL** 

EXISTING

LINES

AREA

NEW

DESCRIPTION

SILT FENCE

INLET / OUTLET PROCTECTION

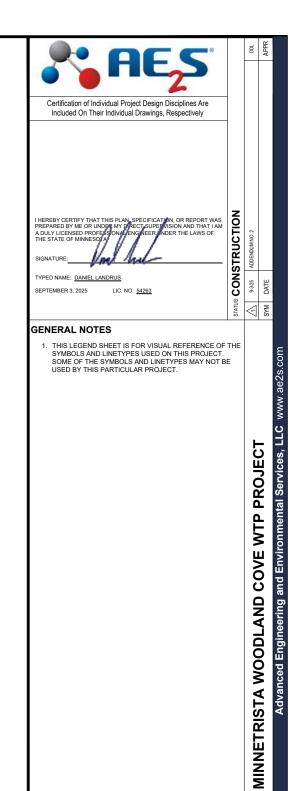
EROSION CONTROL BLANKET

CONSTRUCTION ENTRANCE

DESCRIPTION	ELECTRICAL EXISTING	NEW
DEGORII HON	LINES	NEW
ELECTRIC	—— Е ——	— Е —
OVERHEAD	—— OHE ——	—— ОНЕ —
UNDERGROUND	UGE	——— UGE ——
	STRUCTURES	
MANHOLE	E	E
HANDHOLE	Е	E
UTILITY POLE		-
GUY ANCHOR	<u>C</u>	C-
LIGHT POST	<del>\</del>	*
PUSH TO WALK POST	P	P
STREET LIGHT		-
SIGNAL		
SIGNAL WITH ARM		
	•	
	COMMUNICATIONS	
DESCRIPTION	EXISTING	NEW
	LINES	·
COMMUNICATIONS	6	

COMMUNICATIONS					
DESCRIPTION	EXISTING	NEW			
	LINES				
COMMUNICATIONS	с				
FIBER OPTIC	FO				
TELEPHONE	т				
CABLE TV	CATV				
CLOSED CIRCUIT TV	CCTV				
	STRUCTURES				
MANHOLE	0	C			
TELEPHONE MANHOLE	T	T			
TELEPHONE PEDESTAL	Т	Т			
TELEPHONE FIBER OPTIC PEDESTAL	FO	FO			
TELEVISION PEDESTAL	TV	TV			
UNKNOWN PEDESTAL	U	U			

	DEMOLITION	
DESCRIPTION	EXISTING	NEW
	LINES	
FEATURES TO BE REMOVED	****	
FEATURES TO BE ABANDONED	1111111	
REMOVE CURB & GUTTER		
CONSTRUCTION LIMITS		
	STRUCTURES	
REMOVE TREE OR SHRUB	X	
	AREA	
ITEMS TO BE REMOVED		
CLEARING AND GRUBBING		



CIVIL LEGEND

**GEN** 

CITY OF MINNETRISTA

MINNETRISTA, MN

PROJECT NO: P05355-2023-002 SHEET DESIGNATOR:

DATE: JULY 2025

PREPARED BY: CSD

CHECKED BY: DL

APPROVED BY: DL

C001

	SHEET NUMBERING				CIVIL ABBREVIATIONS				
IEET SERIES	SERIES DESCRIPTION	8	- AND	DWG.	- DRAWING	PC PC	- POINT OF CURVATURE		<b>AES</b>
000	SYMBOLS LEGEND, DRAFTING CONVENTIONS, NOTES, ETC.		- ANGLE - AT	E. E-W	- EAST - EAST TO WEST	PC P.C.C.	- PRECAST - PORTLAND CEMENT CONCRETE		
100	PLAN VIEWS AND COMBINATION PLAN & PROFILE VIEW (HORIZONTAL VIEWS)		- CENTERLINE - DEGREES	EA. E.F.	- EACH - EACH FACE	PE PE or P.E.	- POLYETHYLENE - PLAIN END		6
200	ELEVATIONS AND PROFILES (VERTICAL VIEWS)		- DEGREES - DELTA	EJ	- EXPANSION JOINT	PEP	- PLAIN END - POLYETHYLENE PIPE	Certification of	Individual Project Design Disciplines Are
300	SECTIONS (SECTION VIEWS, WALL SECTIONS)	ø	- DIAMETER	ELEC. ELEV.	- ELECTRICAL	PI PO	- POINT OF INTERSECTION		Their Individual Drawings, Respectively
400	LARGE SCALE VIEWS (SCALED UP REPRODUCTIONS OF PLANS, ELEVATIONS OR SECTIONS NOT IN DETAILS		- SQUARE - PLUS / MINUS	EP.	- ELEVATION - END OF PROJECT	POLY	- PUSH ON		
500	DETAILS	ABS	- ACRYLONITRILE-BUTADIENE-STYRENE	EQ. EVC	- EQUAL - END VERTICAL CURVE	PRV PSI	- PRESSURE REDUCING VALVE - POUNDS PER SQUARE INCH		
600	SCHEDULES AND DIAGRAMS	ACI	- AMERICAN CONCRETE INSTITUTE - ASBESTOS CEMENT PIPE	E.W.	- EACH WAY	PT	- POINT OF TANGENCY		
700	STANDARD DETAILS	ADD'L	- ADDITIONAL	EXIST.	- EXISTING	PLV	- PLUG VALVE		
		ADDM. ADJ.	- ADDENDUM - ADJUSTABLE	EXP. FDN.	- EXPANSION - FOUNDATION	PVC PVI	- POLYVINYL CHLORIDE - POINT OF VERTICAL INTERSECTION		
		AGGR.	- AGGREGATE	FIN.	- FINISH	R or RAD	- RADIUS		
		ALT. APPR.	- ALTERNATE - APPROACH	FL FLR.	- FLOW LINE OR FLANGE - FLOOR	R. RCCP	- RISER - REINFORCED CONCRETE CYLINDER PIPE		
		APPROX.	- APPROXIMATE	FM	- FORCE MAIN	RCP	- REINFORCED CONCRETE PIPE		
		APPURT. ARCH.	- APPURTENANCE - ARCHITECT or ARCHITECTURAL	FRP FT.	- FIBERGLASS REINFORCED PLASTIC - FOOT	RDL RES	- ROOF DRAIN LINE - RESERVOIR	I HEREBY CERTIFY TH	HAT THIS PLAN, SPECIFICATION, OR REPORT WAS R UNDER MY D'RECT SUPET VISION AND THAT I AM ROFESS ONAL ENGINEER I NDER THE LAWS OF
		AR MH	- AIR RELEASE MANHOLE	G&S	- GROOVE AND SHOULDER	REQ'D.	- REQUIRED	A DULY LICENSED PR THE STATE OF MINNE	ROFESSIONAL ENGINEER INDER THE LAWS OF
		ARV ASSY.	- AIR RELEASE VALVE - ASSEMBLY	GA. GALV.	- GAGE - GALVANIZED	REQ'MTS. RJ	- REQUIREMENTS - RESTRAINED JOINT	THE STATE OF MINUTE	11 11 18 1
		ASTM	- AMERICAN SOCIETY FOR TESTING MATERIALS	GR.	- GRADE	S.	- SOUTH	SIGNATURE:	Vml hel-
		AVE AVV	- AVENUE - AIR / VACUUM VALVE	GRD. GV	- GROUND - GATE VALVE	S-N SAN	- SOUTH TO NORTH - SANITARY	TYPED MANE. DANIE	LI ANDRIG
		BFV	- BUTTERFLY VALVE	Н	- HATCH	SCH.	- SCHEDULE	TYPED NAME: DANIE	
		BITUM.	- BITUMINOUS	HDD	- HORIZONTAL DIRECTIONAL DRILLING - HIGH DENSITY POLYETHYLENE	SD	- STORM DRAIN	SEPTEMBER 3, 2025	LIC. NO. <u>54263</u>
		BL BLDG.	- BUILDING LINE - BUILDING	HDPE HORZ.	- HIGH DENSITY POLYETHYLENE - HORIZONTAL	SECT. SF	- SECTION - SQUARE FEET	1	
		BLK.	- BLOCK	HR.	- HANDRAIL	SIM.	- SIMILAR		
		B.O. BP	- BY OTHERS - BEGINNING OF PROJECT	HT. HYD	- HEIGHT - HYDRANT	SS SSSL	- SANITARY SEWER - SANITARY SEWER SERVICE LEAD	1	GENERAL NOTES
		BRG.	- BEARING	I.D.	- INSIDE DIAMETER	ST	- STREET		TION DEPICTED WITHIN THESE DRAWINGS
		BSMT. BVC	- BASEMENT - BEGIN VERTICAL CURVE	I.E. IN.	- INVERT ELEVATION - INCH	STA STD.	- STATION - STANDARD	COMPILED FR	OM LEGACY DRAWINGS AND FIELD SURVE OUS PROJECTS, SITE VISITS, CONSTRUCTION
		C-C	- CENTER TO CENTER	INSUL	- INSULATION	STL.	- STEEL	OBSERVATION	N TIES AND PHOTOGRAPHS, AND THE
		C&G CB	- CURB AND GUTTER - CATCH BASIN	INV. JT.	- INVERT - JOINT	STN. STL. STR.	- STAINLESS STEEL - STRUCTURAL	MEMORIES OF OBSERVERS.	F CITY STAFF AND CONSTRUCTION
		CDF	- CONTROLLED DENSITY FILL	K	- RATE OF CURVATURE	STRUCT	- STRUCTURAL		NS OF KNOWN UNDERGROUND UTILITIES
		CF CI	- CUBIC FEET - CAST IRON	L LB	- LENGTH OF CURVE - POUND	SUP. SWPP	- SUPPORT - STORM WATER POLLUTION PROTECTION	ARE SHOWN O	ON THE CONSTRUCTION DRAWINGS IN AN
		CIP	- CAST IRON PIPE	LCCP	- LINED CONCRETE CYLINDER PIPE	SY	- SQUARE YARD		E WAY ONLY. ADDITIONAL ACTIVE AND LITIES MAY BE PRESENT.
		C.I.P.	- CAST IN PLACE - CONSTRUCTION JOINT	LF LVC	- LINEAR FEET - LENGTH OF VERTICAL CURVE	TEMP. THK.	- TEMPORARY - THICK		
		CL	- CENTERLINE	LVL	- LEVEL	TOC	- TOP OF CASTING		ALL ON-SITE STAGING WITH OWNER TO ICTS WITH EXISTING UTILITIES.
		CMP CO	- CORRUGATED METAL PIPE	MAX. MECH	- MAXIMUM	T.O.P. TOS	- TOP OF PIPE		NER ACCESS TO SITE AT ALL TIMES.
			- CLEANOUT - CONCRETE	MECH MFG.	- MECHANICAL - MANUFACTURER	TYP.	- TOP OF STEEL - TYPICAL		
		CONSTR.	- CONSTRUCTION	MH	- MANHOLE	UON	- UNLESS OTHERWISE NOTED	CIV	IL DRAWING SYMBOLS
			- CONTINUOUS - CONTROL	MJ or M.J. MIN.	- MECHANICAL JOINT - MINIMUM	USACE VCP	- U.S. ARMY CORPS OF ENGINEERS - VITRIFIED CLAY PIPE	→ 100'-0"±	EXISTING ELEVATION IN SECTION VIEW
		CSP	- CORRUGATED STEEL PIPE	MNDOT	- MINNESOTA DEPARTMENT OF TRANSPORTATION	VERT.	- VERTICAL	FLOOR	(CONTRACTOR TO VERIFY)
			- CURB STOP VALVE - CENTER	MTDOT MTR.	- MONTANA DEPARTMENT OF TRANSPORTATION - METER	W. W-E	- WEST - WEST TO EAST	100'-0"±	EXISTING ELEVATION IN PLAN VIEW
		CU	- COPPER	N.	- NORTH	W/	- WITH	₩ <sub>FLOOR</sub>	(CONTRACTOR TO VERIFY)
		CY DEPR.	- CUBIC YARD - DEPRESSION	N-S NA	- NORTH TO SOUTH - NOT APPLICABLE	W/O WM	- WITHOUT - WATERMAIN	108'-0"	DESIGN ELEVATION IN SECTION VIEW
		DEFR.	- DETAIL	NDDOT	- NORTH DAKOTA DEPARTMENT OF TRANSPORTATION	WRF	- WATER RECLAMATION FACILITY	WALL	DESIGN ELEVATION IN SECURION VIEW
			- DUCTILE IRON	NPT	- NIPPLE	WSL WTF	- WATER SERVICE LEAD	108'-0" FLOOR	DESIGN ELEVATION IN PLAN VIEW
		DIA. DIM.	- DIAMETER - DIMENSION	NTS O.C.	- NOT TO SCALE - ON CENTER	WTP	- WATER TREATMENT FACILITY - WATER TREATMENT PLANT		
		DIP	- DUCTILE IRON PIPE	O.D.	- OUTSIDE DIAMETER	WWF	- WELDED WIRE FABRIC		- BREAKLINE
		DIST.	- DISTANCE - DRIVE	OH. OPNG.	- OVERHEAD - OPENING	WWTP	- WASTE WATER TREATMENT PLANT		DIRECTION OF FLOW
		DRWY	- DRIVEWAY	OSHA	- OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	l			DIRECTION OF FLOW
					SHEET DESIGNATORS			1	EXISTING NOTES
		SHEET DESIGNATO	R DESCRIPTION	SHEET DESIGNATO	DESCRIPTION	SHEE* DESIGNA	TOR DESCRIPTION	$\langle 1 \rangle$	DEMOLITION NOTES
		GEN	GENERAL SHEETS						CONCTRUCTION NOTES
		SW	SITE WORK					(1)	CONSTRUCTION NOTES
		SD	STANDARD DETAILS			1		1	PIPING SCHEDULE ITEMS
						1			
								EQUIP	EQUIPMENT SCHEDULE ITEMS
						1			
						1		_	
				DRAWING,	SECTION AND DETAIL CONVENTION	ONS			
			DETAIL NUMBER	N DDAWII	NG TITLE	DE	ETAIL NUMBER		
			XX FO	N DRAWII	50' 100' P H		$\frac{x}{xx}$		
		s	CHARLIE SCALE		CONSTR ACTUAL	SHEET W	HERE DRAWN —		
			GRAPHIC SCALE	REFEREN TO	ICE NORTH (ORIENTED ) SITE OR STRUCTURE)	AF	REA OF DETAIL	1	
				, 0	ACTUAL NORTH	-		1	
			DETAIL NUMBER —				$\sim$ $ \sim$	1	
			TV DET	AIL TITLE				1	
			/ X \   J =			L	DETAIL NUMBER	1	
				E: NONE			<b>&gt; -</b>		
			XX SCAL				$\sim$		
			SHEET WHERE DRAWN REF: C10. C				X XX	SHEET TITLE:	
		SHEET WHE	XX SCAL			SHFFT	/		CIVIL DRAFTING CONVENTIONS
		SHEET WHE	SHEET WHERE DRAWN REF: C10, C			SHEET	WHERE DRAWN		CIVIL DRAFTING CONVENTIONS
		SHEET WHE	SHEET WHERE DRAWN REF: C10, C			SHEET	WHERE DRAWN	CLIENT:	PREPAREI
		SHEET WHE	SHEET WHERE DRAWN REF: C10, C ERE DETAIL IS CALLED EVERY OCCURRENCE)  DETAIL NUMBER	12, C14	F		SECTION A-A	CLIENT:	Y OF MINNETRISTA PREPAREI
		SHEET WHE	SHEET WHERE DRAWN REF: C10, C  ERE DETAIL IS CALLED EVERY OCCURRENCE)  DETAIL NUMBER  X SEC		<u>.e</u>		WHERE DRAWN	CLIENT: CITY	PREPAREI  OF MINNETRISTA  CHECKED  MINNETRISTA, MN  APPROVE
		SHEET WHE FROM (E	SHEET WHERE DRAWN REF: C10, C ERE DETAIL IS CALLED EVERY OCCURRENCE)  DETAIL NUMBER	12, C14	_ <b>E</b>	DRAWIN	SECTION A-A	CLIENT:	PREPAREI  OF MINNETRISTA  CHECKED  MINNETRISTA, MN  APPROVE

							DOL.
		4.1.3.	CONDITIONS AFFECTING WORK MAY ACTUALLY DIFFER FROM	6.11.1.	EACH BIDDER SHALL BE RESPONSIBLE PRIOR TO BID		A 14
1. GENERAL N	IOTES		THOSE SHOWN IN THE BORING LOGS. BIDDERS ARE		LETTING, FOR DETERMINING THE EFFECTS OF UTILITY WORK		
	ITRACTOR SHALL PROVIDE A TWO (2) WEEK NOTICE TO OWNER		EXPECTED TO EXAMINE THE SITE, INTERPRET OR DISREGARD		ON THE PROJECT WORK SCOPE AND SCHEDULE, AND SHALL		
	ADJACENT PROPERTY OWNERS PRIOR TO BEGINNING ANY ISTRUCTION.		SOIL BORING LOGS AS THEY SEE FIT, AND ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE CHARACTER AND		ACCOUNT FOR ALL SUCH EFFECTS IN THEIR BID.	Certification of Individual Project Design Disci	iplines Are
	ITRACTOR SHALL BE RESPONSIBLE FOR MEETING OSHA		LOCATIONS OF MATERIALS TO BE ENCOUNTERED.	6.11.2.	NO CONSIDERATION WILL BE GIVEN TO THE CONTRACTOR AFTER THE BID LETTING ON ACCOUNT OF UTILITY WORK	Included On Their Individual Drawings, Res	pectively
STA	NDARDS FOR EXCAVATIONS, TRENCHING, AND STRUCTURAL	4.1.4.	ALL CONTRACTORS DESIRING TO TAKE ADDITIONAL SOIL		DONE BY OTHERS.		
	DIFICATIONS.		BORINGS ON THIS PROJECT MUST OBTAIN PERMISSION FROM	7. PERI	NITS		
	S SPECIFICATIONS FOLLOWING SPECIFICATIONS SHALL GOVERN THIS PROJECT.		THE PROPERTY OWNERS INVOLVED AND FROM THE ENGINEER.	7.1.	PERMIT COMPLIANCE BY THE CONTRACTOR IS INCIDENTAL TO		
	EPT AS MODIFIED BY THE PROJECT MANUAL SPECIAL	5 ENVI	RONMENTAL EVALUATION AND WETLAND DELINEATION		CONSTRUCTION. PERMITS BELOW ARE ANTICIPATED, HOWEVER,		
	VISIONS.	5.0.1.	NO WETLAND DELINEATION WAS COMPLETED AS PART OF		ADDITIONAL PERMITS MAY BE NEEDED. THE FOLLOWING PERMITS  ARE ANTICIPATED TO BE IN HAND PRIOR TO CONSTRUCTION:		
	2020 EDITION OF THE MINNESOTA DEPARTMENT OF NSPORTATION "STANDARD SPECIFICATIONS FOR	0.0.1.	THIS PROJECT.	7.1.1.	MN DEPT. OF HEALTH FOR WATER MAIN INSTALLATION		
	ISTRUCTION"	6. UTIL	ITIES LOCATING	7.1.2.	PLUMBING PLAN REVIEW - DEPARTMENT OF LABOR AND	LUEDEDY CERTIFY THAT THE REAL OPECIFICATION O	Z Z
	2018 EDITION OF THE CITY ENGINEERS ASSOCIATION OF	6.1.	THE CONTRACTOR SHALL CALL THE GOPHER STATE ONE CALL		INDUSTRY	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, O PREPARED BY ME OR UNDER MY IT RECT SUPER VISION A DULY LICENSED PROFESSIONAL ENGINEER LINDER TO	OR REPORT WAS N AND THAT I AM THE LAWS OF
	NESOTA STANDARD SPECIFICATIONS.		SYSTEM AT 811 BEFORE COMMENCING EXCAVATION.	7.1.3.	MINNEHAHA CREEK WATERSHED DISTRICT	THE STATE OF MINNESO(A)	
	TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO CURRENT ADDITION OF THE MN MUTCD; INCLUDING "2018 FIELD	6.2.	CONTRACTOR INSTALLED UTILITIES	7.1.4.	PLANNING DEPARTMENT APPROVAL - CITY OF MINNETRISTA	SIGNATURE:	STR
	IUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".	6.2.1.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING CITY UTILITIES INSTALLED WITH THE PROJECT UNTIL FINAL	7.1.5.	ENCROACHMENT APPROVAL (S) - THREE RIVERS PARKS	TYPED NAME: DANIEL LANDRUS	ONS \$224 ATE
	URVEY INFORMATION		ACCEPTANCE IS GRANTED. ALL COSTS ASSOCIATED WITH	7.1.6.	DISTRICT & MCES  NPDES CONSTRUCTION STORMWATER PERMIT - MPCA	SEPTEMBER 3, 2025 LIC. NO. 54263	S-2-25
	RIZONTAL COORDINATE SYSTEM: MINNESOTA DOT: HENNIPEN INTY, US FOOT.		LOCATING CITY UTILITIES INSTALLED WITH THE PROJECT	7.1.0.	DEWATERING PERMIT - DNR		MUS: (
3.2. VER	TICAL DATUM: NAD83		UNTIL FINAL ACCEPTANCE SHALL BE INCIDENTAL TO THE PROJECT.	1.1.1.	DETRICEMENT - DIVIN		SYM
	SURVEY FEET	6.3.	ALL KNOWN UTILITIES ARE SHOWN ON THE PLAN, ADDITIONAL	8. CON	STRUCTION LIMITS		
	OGRAPHIC SURVEY PERFORMED BY: WSB, Inc. THE DRMATION DEPICTED WITHIN THESE DRAWINGS IS COMPILED	3.0.	UTILITIES MAY BE PRESENT WITHIN THE CONSTRUCTION LIMITS.	8.1.	THE CONTRACTOR SHALL STRICTLY CONFINE ALL CONSTRUCTION		٤
	M LEGACY DRAWINGS AND FIELD SURVEYS FROM PREVIOUS	6.3.1.	IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE AND		ACTIVITIES TO THE CONSTRUCTION LIMITS DELINEATED ON THE		COL
	JECTS, SITE VISITS, CONSTRUCTION OBSERVATION TIES AND		PROTECT EXISTING UTILITIES.		PLANS.		2s.
	TOGRAPHS, AND THE MEMORIES OF CITY STAFF AND ISTRUCTION OBSERVERS.	6.4.	UNKNOWN UTILITIES ARE ANTICIPATED TO EXIST WITHIN THE	8.2.	MATERIAL STORAGE AND VEHICLE AND EQUIPMENT TRAFFIC SHALL BE LIMITED TO THE CONSTRUCTION LIMITS.		<u>a</u>
	ISTRUCTION OBSERVERS. ISTRUCTION STAKES AND BENCHMARKS	6.4.1.	PROJECT AREA AND ARE NOT SHOWN ON THE PLANS.  CONTRACTOR SHALL LOCATE ALL UTILITIES AND COMPLETE	8.3.	ALL PAVED STREETS ADJACENT TO THE PROJECT ARE TO BE		N.V.
3.5.1.	REFERENCE POINTS, LINES, GRADE STAKES, AND	0.4.1.	ALL PROJECT WORK WHILE PROTECTING UTILITIES.	U.J.	CLEANED AT THE END OF EACH WORKING DAY OR AS REQUIRED BY		\$
	BENCHMARKS SET BY THE ENGINEER IN CONNECTION WITH		PROTECTION OF UTILITIES SHALL BE INCIDENTAL TO THE		THE SWPPP OR APPLICABLE PERMITS.		
	THE WORK SHALL BE CAREFULLY PRESERVED BY THE CONTRACTOR AND SHALL NOT BE DISTURBED OR MOVED		PROJECT.	8.4.	IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO		CT S, L
	FROM THE EXACT POSITION AND ELEVATION AS SET BY THE	6.5.	PRIVATE ELECTRICAL LINES THAT ARE NOT PART OF THE GOPHER ONE CALL SYSTEM MAY EXIST.		COORDINATE WITH THE PROPERTY OWNERS RELATING TO ACCESS TO THEIR PROPERTY AND ANY SUBSEQUENT DAMAGES.		H Seg
	ENGINEER.	6.5.1.	IT WILL BE THE CONTRACTORS RESPONSIBILITY TO CONTACT	8.5.	THE CONTRACTOR WILL NOT BE ALLOWED TO STORE MATERIALS,		ROJE Service
3.5.2.	NO EXCAVATED MATERIAL SHALL BE PLACED OVER OR AGAINST SAID STAKES AND, EXCEPT WHERE NECESSARY TO	0.0.1.	THE OWNERS FOR LOCATES ON THESE FACILITIES.		EQUIPMENT, ETC. ON STRUCTURES OR USE STRUCTURES AS A		S S
	REMOVE THE STAKES AS THE WORK PROGRESSES, STAKES	6.5.2.	NO ADDITIONAL COMPENSATION WILL BE GIVEN FOR		STAGING AREA.		<u>□</u> <u>□</u>
	SHALL BE CAREFULLY PRESERVED IN THE ORIGINAL		WORKING AROUND KNOWN AND UNKNOWN UTILITIES	8.6.	ALL AREAS DISTURBED BY THE CONTRACTOR'S EQUIPMENT WHICH ARE OUTSIDE THE PLANNED CONSTRUCTION LIMITS, SHALL BE		<u> </u>
	POSITION AND ELEVATION UNTIL THE WORK HAS BEEN	6.6.	ALL UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO		RESTORED, AS APPROVED BY THE ENGINEER, AT THE		WTP
3.5.3.	ACCEPTED. STAKES WHICH MUST BE REMOVED AS THE WORK	6.6.1.	STARTING WORK.  ANY TIME EXISTING UTILITIES IMPEDE THE PROGRESS OF		CONTRACTOR'S EXPENSE.		MI Viro
3.3.3.	PROGRESSES SHALL BE REMOVED ONLY UPON	0.0.1.	WORK, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE	8.7.	MATCH ALL EXISTING CURB AND GUTTER, SIDEWALK, AND		
	CONCURRENCE BY THE ENGINEER.		ENGINEER.		BITUMINOUS. MATCH POINT WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.		
3.5.4.	STAKING REQUIRED TO COMPLETE THE WORK WILL BE	6.7.	ALL UTILITIES, WHETHER PRIVATELY OR PUBLICLY OWNED, SHALL BE	9. POR	TABLE TOILET FACILITIES		10
	COMPLETED BY THE ENGINEER UNLESS OTHERWISE NOTED.		MOVED, RELOCATED, AND/OR REPLACED AS NECESSARY, BY THE RESPECTIVE UTILITY COMPANY OR COMPANIES EXCEPT AS NOTED	9.1.	THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING		AND eering
3.5.5.	STAKING BY THE ENGINEER WILL BE COMPLETED ONE TIME FOR EACH WORK ITEM.		IN THE PLANS.	····	PORTABLE TOILET FACILITIES FOR THE PROJECT AT NO COST TO		A Per
3.5.6.	STAKES DISTURBED OR REMOVED THROUGH THE	6.7.1.	THESE MODIFICATIONS SHALL TAKE PLACE IN ADVANCE OF		THE CITY.		그 ig
	CARELESSNESS OF THE CONTRACTOR WILL BE RESTAKED BY		CONSTRUCTION WHEN APPLICABLE OR WHEN ADVISED BY		STRIAN ACCESSIBILITY PROTECTION		WOODL
	THE ENGINEER AND MAY RESULT IN A PRICE ADJUSTMENT TO	070	THE ENGINEER.	10.1.	ALL PEDESTRIAN FACILITIES ON THIS PROJECT MUST BE CONSTRUCTED ACCORDING TO PUBLIC RIGHTS-OF-WAY		MO Wood
2.5.7	THE CONTRACT.  PROPERTY PIN AND SECTION CORNER MONUMENTATION	6.7.2.	NO PAYMENT SHALL BE MADE TO THE CONTRACTOR UNLESS SPECIFIED IN THE CONTRACT DOCUMENTS.		ACCESSIBILITY GUIDELINES (PROWAG) WHICH CAN BE FOUND AT:		<b>≥</b>   <u>ĕ</u>
3.5.7. 3.5.7.1.	PROPERTY PIN AND SECTION CORNER MONUMENTATION PROPERTY CORNERS OR SECTION CORNER MONUMENTS	6.8.	THE CONTRACTOR SHALL SAFEGUARD ALL UTILITIES AND		HTTP://WWW.DOT.STATE.MN.US/ADA/PDF/PROWAG.PDF.		▼ S
0.0.7.11.	WITHIN THE WORK LIMITS SHALL BE CAREFULLY PRESERVED BY		COORDINATE THEIR EFFORTS TO COINCIDE WITH UTILITY WORK BY	10.1.3.	THE ENGINEER MAY PROVIDE ADDITIONAL DETAILS TO THOSE		S 8
	THE CONTRACTOR.		OTHERS IN ORDER TO MINIMIZE INCONVENIENCE TO THE PUBLIC AND UTILITY COMPANIES.		PROVIDED IN THE PLAN THAT MEET THE PROWAG GUIDELINES AS THE NEED ARISES AND FIELD CONDITIONS		
3.5.7.2.	IN NO CASE SHALL EXCAVATION BE MADE WITHIN FIVE FEET (5')	6.8.1.	WHEN PIPE UTILITY INSTALLATION CROSSES EXISTING		DICTATE.		ETRISTA
	OF SUCH MONUMENT UNTIL IT HAS BEEN ACCURATELY LOCATED, WITNESSED, OR OTHERWISE CARED FOR BY THE	0.0.1.	UTILITIES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR	10.2.	ACCESSIBLE CURB RAMPS AND LANDING AREAS SHALL BE		Z I
	ENGINEER, AND PERMISSION IS GIVEN TO PROCEED WITH THE		SUPPORTING THE UTILITIES IN A MANNER THAT IS		CONSTRUCTED AS DETAILED ON THE PLANS AND IN THE STANDARD		Z
	WORK.		ACCEPTABLE TO THE OWNER OF THE UTILITY.		PLATE. THE CONTRACTOR SHALL TAKE CARE TO STRICTLY ADHERE TO THE SLOPES INDICATED. NO ALLOWANCE OR TOLERANCE WILL		Σ
3.5.7.3.	IF THE CONTRACTOR DISCOVERS MONUMENTS THAT HAVE NOT	6.8.2.	ANY DAMAGE CAUSED TO THE UTILITIES DUE TO CONTRACTOR CARELESSNESS SHALL BE REPAIRED AT THE		BE GRANTED FOR SLOPES ABOVE THE MAXIMUM ALLOWABLE.		
	BEEN PREVIOUSLY LOCATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER SO EFFORTS CAN BE MADE		CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE	10.3.	MAINTAIN AND GUIDE PEDESTRIAN TRAFFIC THROUGH THE PROJECT		
	TO PROTECT, PRESERVE, OR RESET THEM.		UTILITY OWNER.		AT ALL TIMES USING CONTINUOUS ALTERNATE PEDESTRIAN ROUTES		
3.5.7.4.	PROPERTY CORNER OR SECTION CORNER MONUMENTS	6.9.	ABANDONED UTILITIES (GAS LINES, TELEPHONE LINES, ETC.)	10.3.1.	(APRS) PER STANDARDS SET FORTH IN THE MN MUTCD CHAPTER 6D.  PROVIDE EACH APR TO THE SAME LEVEL OF ACCESSIBILITY		
	DISTURBED OR REMOVED THROUGH THE CARELESSNESS OF THE CONTRACTOR, OR WITHOUT PROPER PERMISSION, WILL BE		ENCOUNTERED DURING CONSTRUCTION SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.	10.3.1.	OF EACH EXISTING ACCESS AND WALKWAY PRIOR TO		
	RESET BY THE ENGINEER OR THE CITY AND MAY RESULT IN A	6.9.1.	COSTS ASSOCIATED WITH THIS WORK SHALL BE INCIDENTAL		CONSTRUCTION.		
	PRICE ADJUSTMENT TO THE CONTRACT.		TO THE VARIOUS BID ITEMS ASSOCIATED WITH WORK	10.3.2.	UTILIZE ACCESSIBLE DEVICE STANDARDS AS SHOWN IN THE		iii
	CE GEOTECHNICAL EVALUATION		ADJACENT TO THE ABANDONED UTILITY.		PLAN OR IN FIGURE 6K-5 IN THE FIELD MANUAL IF A PLAN IS NOT PROVIDED.		Ē b
	BORING INFORMATION TAKEN FOR THE PROJECT HAS BEEN			10.3.3.	UTILIZE BYPASS AND DETOUR STANDARDS AS SHOWN IN THE		ROJEC
INCL 4.1.1.	LUDED IN THE PROJECT BIDDING DOCUMENTS.  LOCATIONS, WATER, AND ROCK DEPTHS ENCOUNTERED AT	6.10.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION	.5.5.6.	PLAN OR IN LAYOUTS 88 AND 89 IN THE FIELD MANUAL IF A	SHEET TITLE:	) Act
4.1.1.	THE TIME OF THE BORINGS ARE INDICATED ON THE		OF ALL WORK ASSOCIATED WITH THE DISTURBANCE, REMOVAL, OR REPLACEMENT OF UNIDENTIFIED METALLIC NATURAL GAS MAINS OR		PLAN IS NOT PROVIDED.	CIVIL CONSTRUCTION	INOTES
	GEOTECHNICAL EVALUATION REPORT.		SERVICES WHEN ENCOUNTERED.	10.4.	PROVIDE AND PLACE ACCESSIBLE PEDESTRIAN SIGNALS (APS), TEMPORARY CURB RAMPS, PEDESTRIAN BARRICADES, PEDESTRIAN	CLIENT:	PREPARED BY: CSD
4.1.2.	THERE IS NO EXPRESSED OR IMPLIED AGREEMENT THAT	6.11.	THE CONTRACTOR SHALL COOPERATE WITH AND COORDINATE		CHANNELIZERS, DETECTABLE EDGES, TEMPORARY WALKWAY	CITY OF MINNETRISTA	CHECKED BY: DL
	DEPTHS OR CHARACTER OF MATERIALS SHOWN ARE CORRECT OR COMPLETE.		THEIR EFFORTS TO WORK WITH THE UTILITY COMPANIES AND THEIR CONTRACTORS.		SURFACES AND OTHER ACCESSIBLE DESIGN FEATURES AS	MINNETRISTA, MN PROJECT NO: P05355-2023-002 SHEET DESIGNATOR:	APPROVED BY: DL SHEET NO:
	CONNECT ON CONFERTE.		CONTINUIONS.		NECESSARY.		C003
						ALT. PROJECT NO: 000-0000 GEN	0000

Plotted: By: acesuser Date: Friday, September 5, 20

THAT IT IS REQUIRED TO REMOVE THEM TO ACCOMMODATE NEW CONSTRUCTION.  REPORT ADJACENT PARKING LOTS AND SUB STREETS.  10.7.3.  PROVIDE FRONT DOOR ACCESS TO BUILDINGS WITHOUT CONTROL DEVICES. WORKERS ARE NOT ALLOWED TO PARK THEIR PRIVATE VEHICLES WITHIN THE PROJECT LIMITS UNLESS APPROVED THE SPECIAL TO THE REQUIRE CONTROL CONTROL CONTROL THE LOTS AND ACCOMMON THE CONTROL CON							٦ %
## 100 Company of 1972	10.5	AS NEEDED, PROVIDE CONTINUOUS TEMPORARY WALKWAY	11.8	THE CONTRACTOR SHALL NOTIFY THE ENGINEER 7 DAYS PRIOR TO	11 23	THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL TRAFFIC	
## 100 Company of 1972	10.0.		11.0.		11.20.		
		RELEVANT WEATHER CONDITIONS.		TRAFFIC CONTROL.			
West	10.5.1.	TEMPORARY WALKWAY SURFACES WILL ALLOW THE	11.8.1.	THE CONTRACTOR SHALL NOTIFY THE ENGINEER 48 HOURS			
1		· · · · · · · · · · · · · · · · · · ·		IN ADVANCE OF ALL OTHER TRAFFIC CONTROL CHANGES.			
## 1987 WITH CONTROL AND PROTECTION OF THE PROTE		AND OTHER MOBILITY DEVICES.	11.8.2.	INSTALLATION OF TRAFFIC CONTROL SHALL NOT BE MADE		· · · · · · · · · · · · · · · · · · ·	included on Their individual Drawlings, Nespectively
March   Control   Contro	10.5.2.			BEFORE 8:30 AM ON THE DAY OF THE CLOSURE.		-,,,	
Back   Land and the filt continues of the section		,,	11.9.	· · · · · · · · · · · · · · · · · · ·			
March   Marc				•		COMPLIANCE WITH THE PLANS OR THE LATEST EDITION OF THE	
						MUTCD UPON NOTIFICATION FROM THE ENGINEER WILL RESULT IN A	
Management Product   1	10.5.3		11.9.1.				
	10.5.5.						
1.		TEMPORARY WALKWAY SURFACE SHALL BE SUPPORTED BY	11.10.	· · · · · · · · · · · · · · · · · · ·			
Company   Comp		A SOLID BASE.					I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS
Company   Comp	10.6.	ANY PORTABLE SIGN OR BARRICADE PLACED IN OR ADJACENT TO A	11 11	··			A DULY LICENSED PROFESSIONAL ENGINEER INDER THE LAWS OF
Company   Comp			11.11.		11.20.1.		THE STATE OF MINNESOLA
Company   Comp			11 12				SIGNATURE:
Second Conference   Seco			11.12.	•	11.23.2.	COMPLIANCE WAS NOT ACHIEVED DUE TO WEATHER	
Part	10.7.						TYPED NAME: DANIEL LANDRUS
1.   Local Tells Continued and Processing Co			11.13.	DO NOT STORE MATERIALS OR EQUIPMENT IN THE WORK ZONE		THE CONDITIONS WERE SEVERE ENOUGH TO PREVENT THE	<u>——</u>
Heart   1   Statistics   Control	40 = :					CONTRACTOR FROM BRINGING THE ITEM INTO COMPLIANCE.	STATU SYM
METOCONTROLLED   ADDRESS   MARCHES	10.7.1.			OR EQUIPMENT MUST BE STORED WITHIN THE WORK ZONE CLEAR	11.23.3.		, , , , , , , , , , , , , , , , , , ,
FRESTRONGERS AND SERVICE TO SERVICES TO SERVICES TO SERVICES TO SERVICES TO SERVICE TO				•			
AMPHIES PRODUCT \$10.000 FOR PROJECT OF THE STATE OF THE	40.70			•			
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11.5.   THE CONTRACTOR SHALL MAKE ACCESS PROVISIONS FOR CARRAGE   11.17.   MOREH WORK AND OF PREMITTED ON THIS PROJECT WITHOUT   11.25.15.   ADDITIONAL DELIVERY   11.50.15.   MORE WITHOUT   11.50.15.   MORE W			44.47		11.25.1		
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CONSTRUCTION AREA IS PERMITTED IF AUTHORIZED BY THE ENGINEER 112.1 THE CONTRACTOR OR DESIGNATED TRAFFIC CONTROL 12.1 THE CONTRACTOR OR DESIGNATED TRAFFIC CONTROL 12.2 THE CONTRACTOR OR DESIGNATED TRAFFIC CONTROL 13.2 SUBCONTRACTOR SHALL ENSURE THE ADEQUACY, LEGIBILITY, AND 14.6 ENSTALLED IN ACCORDANCE WITH 15.6 THE "INNIVESOTA MANUAL, ON UNIFORM TRAFFIC CONTROL 15.6 DEVICES" (MN MUTCD); 16.6 THE "INNIVESOTA MANUAL) ON UNIFORM TRAFFIC CONTROL 16.5 THE "INNIVESOTA TEMPORARY TRAFFIC CONTROL 16.6 THE "INNIVESOTA FLAGGING HANDBOOK"; 16.6 THE "INNIVESOTA FLAGGING HANDBOO	11.4.3.	THE ENGINEER MAY MODIFY THE REQUIREMENTS FOR	11.20.	INSTALLATION, MAINTENANCE, RELOCATION AND REMOVAL OF TYPE			
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11.6.1 LI TEMPORARY TRAFFIC MANAGEMENT MUST CONFORM TO AND BE INSTALLED IN ACCORDANCE WITHOUT OF EACH SIGN AND DEVICE. SIGN AND BENCE. SIGN AND SHALL BE SUBCONTRACTOR SHALL ENSURE THE ADEQUACY, LEGIBILITY, AND REFLECTIVITY OF EACH SIGN AND DEVICE. SIGN AND SHALL BE CONSIDERED INCIDENTAL. TO TRAFFIC CONTROL AND REQUIRED AS DEVICES "MIN MUTCO);  11.6.1 THE "MINNESOTA TEMPORARY TRAFFIC CONTROL FIELD DEVICES" (MIN MUTCO);  11.6.2 THE "MINNESOTA TEMPORARY TRAFFIC CONTROL FIELD DEVICES" (MIN MUTCO);  11.6.3 THE "SPEED LIMITS IN WORK ZONES GUIDELINES";  11.6.4 THE "MINNESOTA ELAGGING HANDBOOK";  11.6.5 THE "MINNESOTA ELAGGING HANDBOOK";  11.6.6 THE PIAN;  11.6.7 ALL APPLICABLE STANDARD SPECIAL ENSURED TO CONTROL FIELD DEVICES" (MIN MUTCA);  11.6.8 THE PIAN;  11.6.8 MANUALS LISTED ABOVE MAY BE FOUND AT:  11.6.9 MANUALS LISTED ABOVE MAY BE FOUND AT:  11.6.9 MANUALS LISTED ABOVE MAY BE FOUND AT:  11.6.9 MANUALS LISTED ABOVE MAY BE FOUND AT:  11.6.0 MANUALS LISTED ABOVE MAY BE FOUND AT:  11.6.1 MANUALS LISTED ABOVE MAY BE FOUND AT:  11.6.2 MANUALS LISTED ABOVE MAY BE FOUND AT:  11.6.3 MANUALS LISTED ABOVE MAY BE FOUND AT:  11.6.4 MANUALS LISTED ABOVE MAY BE FOUND AT:  11.6.7 MANUALS LISTED ABOVE MAY BE FOUND AT:  11.6.8 MANUALS LISTED ABOVE MAY BE FOUND AT:  11.6.9 MANUALS LISTED ABOVE MAY BE FOUND AT:  11.6.0 MANUALS LISTED ABOVE MAY BE FOUND AT:  11.6.1 MANUALS LISTED ABOVE MAY BE FOUND AT:  11.6.2 MANUALS LISTED ABOVE MAY BE FOUND AT:  11.6.3 MANUALS LISTED ABOVE MAY BE FOUND AT:  11.6.4 MANUALS LISTED ABOVE MAY BE FOUND AT:  11.6 MANUALS LISTE					11.25.2		1
BE INSTALLED IN ACCORDANCE WITH:    REFLECTIVITY OF EACH SIGN AND DEVICE. SIGN WASHING SHALL BE CONTROL AND REQUIRED AS DIRECTED BY THE ENGINEER.   1.6.1.   THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL   1.2.2.   FLAGGER WARNING SIGNS SHALL BE INSTALLED WHEN USING FLAGGING HANDBOOK";   FLAGGER SHALL WEAR APPROPRIATE SAFETY CLOTHING AND FALL USE A STOPISTOR UNIFORM TO FEMALE SEED INTO THE "MINNESOTA FLAGGING HANDBOOK";   FLAGGING WILL BE INSTALLED WHEN USING SIGNS SHALL BE INSTALLED WHEN USING SHALL BE THE CONTRACTORS.   1.2.2.1.   FLAGGIRG WARNING SIGNS SHALL BE INSTALLED WHEN USING SHALL BE THE CONTRACTORS.   1.2.5.2.6.   MATERIALS USED TO CONSTRUCT TEMPORARY MAILBOX BANKS SHALL BE THE CONTRACTORS.   NOT USED DURING TEMPORARY RELOCATION.   PROPERTY OF STORE BY THE CONTRACTOR.   SHALL BE THE CONTRACTOR.   SHALL		ENGINEER.	11.21.			WITH THE FOLLOWING:	
11.6.1. THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD);  11.6.2. THE "MINNESOTA TEMPORARY TRAFFIC CONTROL FIELD MANUAL);  11.6.3. THE "SPEED LIMITS IN WORK ZONES GUIDELINES";  11.6.4. THE "MINNESOTA EMPORARY SEPED LIMITS IN WORK ZONES GUIDELINES";  11.6.5. THE "MINNESOTA MANUAL);  11.6.6. THE "MINNESOTA MANUAL);  11.6.7. ALL APPLICABLE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.  11.6.8. MANUALS LISTED ABOVE MAY BE FOUND AT: PROVISIONS.  11.6.9. MANUALS LISTED ABOVE MAY BE FOUND AT: MANUALS LIST	11.6.			·	11.25.2	4. TEMPORARY MAILBOX BANKS SHALL BE ACCESSIBLE TO POSTAL	
DEVICES* (MM MUTCD);  11.6.1. THE "MINNESOTA TEMPORARY TRAFFIC CONTROL FIELD  11.6.2. THE "MINNESOTA TEMPORARY TRAFFIC CONTROL FIELD  11.6.3. THE "SPEED LIMITS IN WORK ZONES GUIDELINES";  11.6.4. THE "MINNESOTA FLAGGING HANDBOOK";  11.6.5. THE "MINNESOTA FLAGGING HANDBOOK";  11.6.6. THE PLAN:  11.6.6. THE PLAN:  11.6.7. ALL APPLICABLE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.  11.6.8. MANUALS LISTED ABOVE MAY BE FOUND AT:  11.6.9. MANUALS LISTED ABOVE MAY BE FOUND AT:  11.6.0. MANUALS LISTED ABOVE MAY BE FOUND AT:  11.6.1. MANUALS LISTED ABOVE MAY BE FOUND AT:  11.6.1. MANUALS LISTED ABOVE MAY BE FOUND AT:  11.6.1. MANUALS LISTED ABOVE MAY BE FOUND AT:  11.6.2. MANUALS LISTED ABOVE MAY BE FOUND AT:  11.6.3. MANUALS LISTED ABOVE MAY BE FOUND AT:  11.6.4. MANUALS LISTED ABOVE MAY BE FOUND AT:  11.6.7. MANUALS LISTED ABOVE MAY BE FOUND AT:  11.6.8. MANUALS LISTED ABOVE MAY BE FOUND AT:  11.6.9. MANUALS LISTED ABOVE MAY BE FOUND AT:  11.6.0. MANUALS LISTED ABOVE MAY BE FOUND AT:  11.6.1. MANUALS LISTED ABOVE MAY BE FOUND AT:  11.6.1. MANUALS LISTED ABOVE MAY BE FOUND AT:  11.6. MANU		BE INSTALLED IN ACCORDANCE WITH:				SERVICE AND POSTAL RECIPIENT AT ALL TIMES.	
11.6.2. THE "MINNESOTA TEMPORARY TRAFFIC CONTROL FIELD 11.22. FLAGGER WARNING SIGNS SHALL BE INSTALLED WHEN USING MANUAL" (FIELD MANUAL);  11.6.3. THE "SPEED LIMITS IN WORK ZONES GUIDELINES";  11.6.4. THE "MINNESOTA FLAGGING HANDBOOK";  11.6.5. THE "MINNESOTA FLAGGING HANDBOOK";  11.6.6. THE "MINNESOTA FLAGGING HANDBOOK";  11.6.6. THE PLAN;  11.6.6. THE PLAN;  11.6.7. ALL APPLICABLE STANDARD SPECIFICATIONS AND SPECIAL PROPERTY THE FLAGGING MUST BE DISCONTINUED UNTIL A NEW TRAFFIC PROPERTY OF PRANTINUED UNTIL A NEW TRAFFIC OPERATION MUST BE DISCONTINUED UNTIL A NEW TRAFFIC OPERATION MUST BE DISCONTINUED UNTIL A NEW TRAFFIC ONTROL PLAN IS DEVELOPED WHICH MEETS THE MAXIMUM DELAY TO CONTROL WHICH MEETS THE MAXIMUM DELAY TO CONTROL WHICH MEETS THE MAXIMUM DELAY TIME SHOW THAT THE POSTAL DELIVERY IS NOT ACHIEVED, WORK SHALL STOP MINNESTAL AND MINNEST	11.6.1.	THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL			11.25.2	5. NUMEROUS MAILBOX BANKS MAY BE UTILIZED TO MINIMIZE	
Harmour Field Manual (Field Manual):  11.6.2. In He minnesoria Temporary Maleox Banks Manual (Field Manual):  11.6.3. THE "SPEED LIMITS IN WORK ZONES GUIDELINES";  11.6.4. THE "MINNESOTA FLAGGING HANDBOOK";  11.6.5. THE "MINDEST FLAGGING HANDBOOK";  11.6.6. THE "MINDEST STANDARD SIGNS AND MARKINGS MANUAL";  11.6.6. THE PLAN;  11.6.7. ALL APPLICABLE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.  11.6.8. MANUALS LISTED ABOVE MAY BE FOUND AT:  11.6.8. MANUALS LISTED ABOVE MAY BE FOUND AT:  11.6.9. MANUALS LISTED ABOVE MAY BE FOUND AT:  11.6.0. MANUALS LISTED ABOVE MAY BE ABOVE MAY BE FOUND AT:  11.6.0. MANUALS LISTED ABOVE MAY BE		DEVICES" (MN MUTCD);	11.00			DISTANCES FROM POSTAL RECIPIENTS.	
11.6.2. THE "MINNESOTA FLAGGING HANDBOOK"; 11.6.4. THE "MINNESOTA FLAGGING HANDBOOK"; 11.6.5. THE "MINNESOTA FLAGGING HANDBOOK"; 11.6.6. THE "MINNESOTA FLAGGING HANDBOOK"; 11.6.6. THE "MINDOT STANDARD SIGNS AND MARKINGS MANUAL"; 11.6.6. THE "MINDOT STANDARD SIGNS AND MARKINGS MANUAL"; 11.6.6. THE PLAN; 11.6.7. ALL APPRIOR DELIVERY STORED BY THE CONTRACTOR.  11.6.8. THE PLAN; 11.6.9. MANUALS LISTED ABOVE MAY BE FOUND AT: 11.6.9. MANUALS LISTED ABOVE MAY BE FOUND AT: 11.6.0. MANU	11.6.2.	THE "MINNESOTA TEMPORARY TRAFFIC CONTROL FIELD	11.22.		11.25.2	6. MATERIALS USED TO CONSTRUCT TEMPORARY MAILBOX BANKS	
11.6.3. THE "SPEED LIMITS IN WORK ZONES GUIDELINES"; 11.6.4. THE "MINNESOTA FLAGGING HANDBOOK"; 11.6.5. THE "MNDOT STANDARD SIGNS AND MARKINGS MANUAL"; 11.6.6. THE PLAN; 11.6.7. ALL APPLICABLE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS. 11.6.8. MANUALS LISTED ABOVE MAY BE FOUND AT: http://www.dot.state.mn.us/trafficeng/publ/index.html 11.6.8. MANUALS LISTED ABOVE MAY BE FOUND AT: http://www.dot.state.mn.us/trafficeng/publ/index.html 11.7. MAINTAIN OWNER EGRESS TO SITE AT ALL TIMES.  AND SHALL USE A STOP/SLOW PADDLE. PAYMENT FOR PLAGGING PORDATION SIN AND SHALL USE A STOP/SLOW PADDLE. PAYMENT FOR PLAGGING PORDATION SIN AMANER 11.25.2.1. PROPERTY STORED BY THE CONTRACTOR.  PROPERTY STORED BY THE CONTRACTOR.  11.25.2.8. NOTIFICATION OF THE POSTAL SERVICE, DELIVERY SERVICES AND POSTAL SERVICE, DELIVERY SERVICES AND POSTAL SERVICE AND OTHER POSTAL SERVICE AND OTHER POSTAL SERVICE AND OTHER AFFECTED DELIVERY SERVICES SHALL APPROVE ALL LOCATIONS AND INSTALLATIONS.  11.68. MANUALS LISTED ABOVE MAY BE FOUND AT: http://www.dot.state.mn.us/trafficeng/publ/index.html DELAY REQUIREMENT.  11.70. MAINTAIN OWNER EGRESS TO SITE AT ALL TIMES.  AND SHALL USE A STOP/SLOW PADDLE. PAYMENT FOR PROPERTY STORED BY THE CONTRACTOR.  11.25.2.8. NOTIFICATION OF THE POSTAL SERVICE, DELIVERY SERVICES AND POSTAL SERVICE AND OTHER POSTAL SERVICE AND OTH		MANUAL" (FIELD MANUAL);	44.00			SHALL BE THE CONTRACTOR'S.	
11.6.4. THE "MINNESOTA FLAGGING HANDBOOK"; 11.6.5. THE "MNDOT STANDARD SIGNS AND MARKINGS MANUAL"; 11.6.6. THE PLAN; 11.6.7. ALL APPLICABLE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.  11.6.8. MANUALS LISTED ABOVE MAY BE FOUND AT: http://www.dot.state.mn.us/trafficeng/publ/index.html  11.7. MAINTAIN OWNER EGRESS TO SITE AT ALL TIMES.  11.6.4. THE "MINNESOTA FLAGGING WILL BE INCIDENTAL TO CONSTRUCTION.  11.6.5. THE "MINNESOTA FLAGGING HANDBOOK"; 11.6.6. THE "MINNESOTA FLAGGING MARKINGS MANUAL"; 11.6.7. ALL APPLICABLE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.  11.6.8. MANUALS LISTED ABOVE MAY BE FOUND AT: http://www.dot.state.mn.us/trafficeng/publ/index.html  11.6.7. MAINTAIN OWNER EGRESS TO SITE AT ALL TIMES.  11.6.8. THE "MINNESOTA FLAGGING HANDBOOK"; THE "MINDOT STANDARD SIGNS AND MARKINGS MANUAL"; THAT CAUSES MINIMUM DELAY TO THE TRAVELING PUBLIC. THE MAXIMUM DELAY TIME IS 10 MINUTES. IF THE AND POSTAL RECIPIENT SHALL BE MADE 5 DAYS PRIOR TO RELOCATION. PROVISIONS.  11.25.2.9. POSTAL SERVICE AND OTHER AFFECTED DELIVERY SERVICES SHALL APPROVE ALL LOCATIONS AND INSTALLATIONS.  11.25.2.10. IF POSTAL DELIVERY IS NOT ACHIEVED, WORK SHALL STOP PROVICED BY: DL MINIETRISTA, MN DELAY REQUIREMENT.  11.25.2.10. IF POSTAL DELIVERY IS NOT ACHIEVED, WORK SHALL STOP PROVICE ONLY 2025  THE "MAXIMUM DELAY TIME FLAGGING OPERATIONS IN A MANNER THAT CAUSES MINIMUM DELAY TIME FLAGGING OPERATIONS IN A MANNER THAT CAUSES MINIMUM DELAY TIME FLAGGING OPERATIONS IN A MANNER THAT CAUSES MINIMUM DELAY TIME FLAGGING OPERATIONS IN A MANNER THAT CAUSES MINIMUM DELAY TIME FLAGGING OPERATION SHALL TIME SAND POSTAL RECIPIENT SHALL BE MADE 5 DAYS PRIOR TO RELOCATION.  CIVIL CONSTRUCTION OPERATOR  CIVIL CONSTRUCTI	11.6.3.	THE "SPEED LIMITS IN WORK ZONES GUIDELINES";	11.22.1		11.25.2	7. PROPERTY OWNER'S POSTS, CROSS MEMBERS AND MAILBOXES	ij
11.6.5. THE "MNDOT STANDARD SIGNS AND MARKINGS MANUAL"; 11.6.6. THE PLAN; 11.6.7. ALL APPLICABLE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS. PROVISIONS. 11.6.8. MANUALS LISTED ABOVE MAY BE FOUND AT: http://www.dot.state.mn.us/trafficeng/publ/index.html  11.7. MAINTAIN OWNER EGRESS TO SITE AT ALL TIMES.  THE "MNDOT STANDARD SIGNS AND MARKINGS MANUAL"; 11.2.2. COORDINATE THE FLAGGING OPERATIONS IN A MANNER THAT CAUSES MINIMUM DELAY TO THE TRAVELING PUBLIC. THAT CAUSES MINIMUM DELAY TO THE TRAVELING PUBLIC. THE MAXIMUM DELAY TO THE TRAVELING PUBLIC. AND POSTAL BERVICE AND OTHER AFFECTED DELIVERY SERVICES SHALL APPROVE ALL LOCATIONS AND INSTALLATIONS. TIL. 25.2.9. POSTAL SERVICE AND OTHER AFFECTED DELIVERY SERVICES SHALL APPROVE ALL LOCATIONS AND INSTALLATIONS. THE "MNDOT STANDARD SPECIFICATION NOT BE SHEET TIME."  CITY OF MINNETRISTA MINNETRISTA MINNETRISTA MINNETRISTA MINNETRISTA. MIN APPROVED BY: DL. APPRO	11.6.4.	THE "MINNESOTA FLAGGING HANDBOOK";					
11.66. THE PLAN; 11.67. ALL APPLICABLE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS. 11.68. MANUALS LISTED ABOVE MAY BE FOUND AT: http://www.dot.state.mn.us/trafficeng/publ/index.html  11.70. MAINTAIN OWNER EGRESS TO SITE AT ALL TIMES.  11.68. THE PLAN; 11.69. THE PLAN; 11.69. ALL APPLICABLE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS. 11.69. PROSTAL RECIPIENT SHALL BE MADE 5 DAYS PRIOR TO RELOCATION. PREPARED BY: CSD OPERATION MUST BE DISCONTINUED UNTIL A NEW TRAFFIC CONTROL PLAN IS DEVELOPED WHICH MEETS THE MAXIMUM DELAY TIME 18 10 MINUSTES. IF THE AND POSTAL RECIPIENT SHALL BE MADE 5 DAYS PRIOR TO RELOCATION. PREPARED BY: CSD OHERATION NOTES CIVIL CONSTRUCTION NOTES CIVIL CONSTRU	11.6.5.	THE "MNDOT STANDARD SIGNS AND MARKINGS MANUAL";	44.00.0			PROPERLY STORED BY THE CONTRACTOR.	ROJE
AND POSTAL RECIPIENT SHALL BE MADE 5 DAYS PRIOR TO RELOCATION.  PROVISIONS.  MANUALS LISTED ABOVE MAY BE FOUND AT: http://www.dot.state.mn.us/trafficeng/publ/index.html  11.7.  MAINTAIN OWNER EGRESS TO SITE AT ALL TIMES.  AND POSTAL RECIPIENT SHALL BE MADE 5 DAYS PRIOR TO RELOCATION MOTES  PREPARED BY: CSD OPERATION MUST BE DISCONTINUED UNTIL A NEW TRAFFIC CONTROL PLAN IS DEVELOPED WHICH MEETS THE MAXIMUM DELAY TIME IS 10 MINUTES. IF THE OPERATION EXCEEDS THE MAXIMUM DELAY TIME, THE OPERATION MUST BE DISCONTINUED UNTIL A NEW TRAFFIC SHALL APPROVE ALL LOCATIONS AND INSTALLATIONS. IF POSTAL DELIVERY IS NOT ACHIEVED, WORK SHALL STOP OPERATION MUST BE DISCONTINUED UNTIL A NEW TRAFFIC CONTROL PLAN IS DEVELOPED WHICH MEETS THE MAXIMUM DELAY TIME IS 10 MINUTES. IF THE CUIT.  PROPRIED BY: CSD OPERATION MUST BE DISCONTINUED UNTIL A NEW TRAFFIC SHALL APPROVE ALL LOCATIONS AND INSTALLATIONS. MININETRISTA, MN APPROVED BY: DL			11.22.2		11.25.2	•	SHEET TITLE:
PROVISIONS.  11.6.8. MANUALS LISTED ABOVE MAY BE FOUND AT: http://www.dot.state.mn.us/trafficeng/publ/index.html  11.7. MAINTAIN OWNER EGRESS TO SITE AT ALL TIMES.  RELOCATION. OPERATION EXCEEDS THE MAXIMUM DELAY TIME, THE OPERATION EXCEEDS THE MAXIMUM		·					CIVIL CONSTRUCTION NOTES
11.6.8. MANUALS LISTED ABOVE MAY BE FOUND AT:	11.0.7.						
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11.7. MAINTAIN OWNER EGRESS TO SITE AT ALL TIMES.  DELAY REQUIREMENT.  11.25.2.10. IF POSTAL DELIVERY IS NOT ACHIEVED, WORK SHALL STOP PROJECT NO: P05355-2023-002 DATE: JULY 2025 DATE: JULY	11.0.0.					SHALL APPROVE ALL LOCATIONS AND INSTALLATIONS.	onesias si. Be
DATE: JULY 2025 GEN COO4	11 7			DELAY REQUIREMENT.	11.25.2	10. IF POSTAL DELIVERY IS NOT ACHIEVED, WORK SHALL STOP	
DAIL JULI 2020 GEN   CUU4	11.7.	WAINTAIN OWNER CONCOS TO SHE AT ALL HIVES.					
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eneral_She	IMMEDIATELY AND REMAIN STOPPED UNTIL THE SITUATION IS	DISCHARGES TO SURFACE WATERS, SANITARY SEWER OTHER ITEMS THE OWNER DOES NOT WISH TO SALVA	
14.05.0	CORRECTED.	BACKUPS INTO HOMES, ETC.  SHALL BECOME THE CONTRACTOR'S PROPERTY AND  13.6 EXISTING STORM SEWER INLETS AND DIPES WITHIN THE  BE REMOVED FROM THE SITE AND DISPOSED OF PRO	
11.25.2.	<ol> <li>FOLLOWING CONSTRUCTION, REINSTALL ALL MAIL AND OTHER DELIVERY BOXES IN CONVENIENT LOCATIONS AND IN COMPLIANCE WITH USPS REGULATIONS.</li> </ol>	13.6. EXISTING STORM SEWER INLETS AND PIPES WITHIN THE  CONSTRUCTION LIMITS SHALL BE PROTECTED FROM THE ENTRANCE  OF STONE, DIRT, GRAVEL, ASPHALT, CONCRETE OR ANY OTHER  16. SITE EARTHWORK NOTES  16.1. ALL GRADES SHOWN ARE TO FINISHED ELEVATIONS (I.E. TOF	Certification of Individual Project Design Disciplines Are
11.25.2.	12. REPLACE ANY BOX OR SUPPORTING MEMBER THAT IS DAMAGED DURING CONSTRUCTION.	DEBRIS DURING CONSTRUCTION. THE SWPPP MUST BE FOLLOWED  PAVEMENT OR TOPSOIL).	
11.25.2.		16.2. CONTRACTOR SHALL SALVAGE EXISTING TOPSOIL FROM TH  13.7. EXISTING FRAMES AND/OR LIDS CRACKED OR BROKEN THROUGH  13.7. EXISTING FRAMES AND/OR LIDS CRACKED OR BROKEN THROUGH  16.2. CONTRACTOR SHALL SALVAGE EXISTING TOPSOIL FROM TH  ENTIRE AREA OF EXCAVATION FOR REPLACEMENT DURING	
	POSTAL SERVICE, THE DELIVERY SERVICE AND PROPERTY OWNER.	THE CARELESSNESS OF THE CONTRACTOR'S FORCES SHALL BE  RESTORATION.  REPLACED WITH NEW FRAMES AND/OR LIDS AT THE CONTRACTOR'S  AND A SHARL STORY OF THE CONTRACTOR'S	A-TON
11.25.2.		EXPENSE.  16.2.1. CONTRACTOR SHALL STOCKPILE MATERIAL AT A LOC APPROVED BY THE OWNER.	ATION
	TO THE CONTRACT.	13.8. CONTRACTOR SHALL LIMIT ALL CONSTRUCTION ACTIVITIES, INCLUDING STAGING AND MATERIAL STORAGE, TO WITHIN THE	AN
<b>12. DRAINA</b> 12.1.	AGE DRAINAGE IS THE CONTRACTOR'S RESPONSIBILITY.	CONSTRUCTION LIMITS SHOWN ON THE PROJECT DRAWINGS. ANY  AREA COURDINATED WITH THE OWNER.	I HEREBY CERTIFY THAT THIS PLAN SPECIFICATION, OR REPORT WAS
	CONTRACTOR SHALL MAINTAIN EXISTING SITE DRAINAGE AND	DAMAGE FROM CONSTRUCTION OPERATIONS OUTSIDE OF THE 10.5. UNSUITABLE EXCAVATED MATERIAL SHALL BE HAULED TO CONSTRUCTION LIMITS SHALL BE REPAIRED AT THE CONTRACTOR'S CONTRACTOR FURNISHED OFF-SITE DISPOSAL AREA.	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT, SUPER DISON AND THAT I AM A DULY LICENSED PROFESSIONAL FINGS HER INDER THE LAWS OF THE STATE OF MINNESOFA
	PROVIDE EROSION CONTROL MEASURES AT ALL TIMES.	EXPENSE. 17. SITE PIPE NOTES	RENOW!
12.3.1.	PROVIDE POSITIVE DRAINAGE AND EROSION PROTECTION AT ALL TIMES	13.9. MISCELLANEOUS ITEMS SUCH AS, BUT NOT LIMITED TO, SIGNS, MAIL 17.1. CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING OSHA BOXES, STREET LIGHTS, FENCES, SIGNS AND POLES SHALL BE STANDARDS FOR TRENCH EXCAVATIONS.	
12.3.2.	STORM WATER AT THE SITE MUST BE MANAGED TO REDUCE	PROTECTED OR REMOVED AND REPLACED BY THE CONTRACTOR AS 17.2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD	■ SEPTEMBER 3 2025   LC NO 54263   【3 □ □
12.3.2.1	THE POTENTIAL FOR SEDIMENT TRANSPORT OFF-SITE.  CONTRACTOR SHALL REMOVE AND REINSTALL CONSTRUCTION	AN INCIDENTAL TO THE CONTRACT, AS APPLICABLE.  13.10. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE, STORE, AND  LOCATION, ELEVATION, SIZE AND MATERIAL OF EXISTING UT SCHEDULED AS POINTS OF CONNECTION.	LINES
12.0.2.1	FENCE AND SILT FENCE AS MANY TIMES AS NEEDED FOR	REPLACE ANY EXISTING TRAFFIC SIGNS AFFECTED BY 17.2.1. PROVIDE FITTINGS, ADAPTERS, SOLID SLEEVES, HAR	
1	CONSTRUCTION AND NO ADDITIONAL COMPENSATION WILL BE MADE FOR SUCH WORK.	CONSTRUCTION ACTIVITY. ANY SIGNS DAMAGED OR LOST AS A  MECHANICAL COUPLING, AND ROTATE FITTINGS AND RESULT OF THE PROJECT SHALL BE REPLACED BY THE  DEFLECT JOINTS AS REQUIRED TO MAKE CONNECTION	N.
12.3.3.	DAMAGE CAUSED BY IMPROPER TEMPORARY DRAINAGE	CONTRACTOR PRIOR TO FINAL PAYMENT. 17.2.2. PROVIDE TEMPORARY PLUG WITH FACTORY OUTLET	
	FACILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE ENGINEER.	13.11. CONTRACTOR SHALL CLEAN AND MAINTAIN ROADWAYS AFFECTED  AS REQUIRED FOR CONTRACTOR'S TESTING AND BY CONSTRUCTION ACTIVITIES, INCLUDING HAUL ROUTES, TO THE  DISINFECTION WORK BEFORE MAKING CONNECTION.	
12.4.	CONTRACTOR WILL UPDATE AND MAINTAIN THE STORM WATER	CONDITION THEY WERE IN PRIOR TO THE START OF CONSTRUCTION 17.3. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF	THE
	POLLUTION PREVENTION PLAN (SWPPP) USING THE DRAWINGS CONTAINED IN THE PLAN ALONG WITH ADDITIONAL DRAWINGS	ON A DAILY BASIS.  LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND UTI  14. DEWATERING  CROSSINGS OF PROPOSED SITE PIPING PRIOR TO EXCAVATION  CROSSINGS OF PROPOSED SITE PIPING	
	FURNISHED BY THE CONTRACTOR AS REQUIRED BY THE PERMIT.	14.1. IT IS ANTICIPATED THAT GROUNDWATER MAY BE ENCOUNTERED 17.4. THE CONTRACTOR SHALL INSTALL ALL SITE PIPING TO THE L	
	CTION OF EXISTING SITE	DURING EXCAVATION. DEWATERING MAY BE NEEDED TO PERFORM  AND GRADES AS SHOWN ON THE DRAWINGS. DEPTH OF CO THE CONTRACT WORK.  WATER MAIN SHALL BE A MINIMUM OF 7.5' FROM FINAL GRAD	/ER FOR
	FOR THE PROTECTION OF EXISTING PUBLIC UNDERGROUND UTILITIES AND THE SURROUNDING WORK AREA, CONSIDERATION	THE CONTRACT WORK.  WATER MAIN SHALL BE A MINIMUM OF 7.5' FROM FINAL GRAE  14.1.1.  THERE IS NO SEPARATE BID ITEM FOR DEWATERING AND ALL  THE TOP OF PIPE. PRESSURE PIPE MAY BE LOWERED, AS	
	SHALL BE GIVEN TO ISOLATING PORTIONS OF THE EXISTING WATER	COSTS ASSOCIATED SHALL BE INCIDENTAL TO THE VARIOUS  REQUIRED, TO AVOID CONFLICTS WITH EXISTING UTILITIES A RELATED BID ITEMS.  REQUIRED, TO AVOID CONFLICTS WITH EXISTING UTILITIES A MAINTAIN A MINIMUM SEPARATION DISTANCE OF 18" BETWEE	ND TO
	DISTRIBUTION SYSTEM WITHIN THE CONSTRUCTION LIMITS WHILE MAINTAINING FIRE PROTECTION.	14.1.2. CONTRACTOR SHALL CONTACT ENGINEERING  14.1.2. CONTRACTOR SHALL CONTACT ENGINEERING	E TO SUMM
	DURING UNDERGROUND UTILITY INSTALLATION SUCH AS, BUT NOT	ENVIRONMENTAL STAFF PRIOR TO ANY DEWATERING 17.5. ALL PRESSURE PIPE FITTINGS, VALVES AND APPURTENANCE BE RESTRAINED BY MECHANICAL MEANS. CONTRACTOR SH	
	LIMITED TO, SANITARY SEWER, WATER MAIN, STORM SEWER, SUMP PUMP DRAIN, ETC., IN THE PROXIMITY OF EXISTING WATER MAIN	15. REMOVALS & DEMOLITION INSTALL FULL STICK OF PIPE ON EACH SIDE OF FITTINGS AND	)   <b> </b>
	AND/OR WATER SERVICES, THE EXISTING WATER MAIN DISTRIBUTION SHALL BE ISOLATED WITHIN THE WORK AREA.	15.1. ANY MATERIAL NOT UTILIZED ON PROJECT SHALL BE DISPOSED OF APPURTENANCES WHEN POSSIBLE. THE CONTRACTOR SHA  CONSULT THE RESTRAINT MANUFACTURER FOR INSTALLATION.	
	UPON RECEIVING NOTICE FROM THE CONTRACTOR 24 HOURS IN	OFF-SITE AT THE CONTRACTOR'S EXPENSE.  GUIDELINES IF MECHANICAL RESTRAINT WILL BE USED FOR	
	ADVANCE OF ANY WORK, CITY STAFF WILL OPERATE DESIGNATED WATER VALVES, WHERE APPROPRIATE, TO ISOLATE THE WORK	CURB & GUTTER SHALL BE REMOVED TO THE REMOVAL LIMITS  17.6 DEFLECTIONS OF LINDERGROUND PIPE INSTALLATION FROM	A
	AREA AS MUCH AS REASONABLY POSSIBLE.	MARKED IN THE FIELD BY THE ENGINEER UNLESS OTHERWISE  NOTED ON THE PLANS  STRAIGHT LINE OR GRADE ARE TO BE MADE WITH FITTINGS,	
	CITY OF MINNETRISTA PUBLIC WORKS SHALL BE NOTIFIED IMMEDIATELY IN THE EVENT OF A WATER SERVICE EMERGENCY OR	15.2.1. ALL CONCRETE AND BITUMINOUS SHALL BE SAW CUT PRIOR OF THESE METHODS TO CONFORM TO THE ALIGNMENT AND	
	INTERRUPTION.	TO REMOVING, ALL CONCRETE TO BE SAW CUT TO THE INDICATED ON THE DRAWINGS. DEFLECTED JOINTS SHALL N NEAREST JOINT. EXCEED THE MANUFACTURER'S RECOMMENDATIONS.	I 0
13.4.1.	IT WILL BE PERMISSIBLE FOR THE CONTRACTOR TO OPERATE THE DESIGNATED VALVE(S) IN THE EVENT OF A WATER MAIN	15.2.2. ALL SAW CUTS SHALL BE INCIDENTAL TO REMOVAL ITEMS. 17.7. ALL PIPE LENGTHS SHOWN ON PLANS ARE MEASURED FROM	଼
	OR WATER SERVICE FAILURE WITHIN THE CONSTRUCTION	15.3. THE CONTRACTOR SHALL TAKE SPECIAL CARE NOT TO DAMAGE ANY CENTER TO CENTER OF MANHOLES, PIPE FITTINGS AND TREES, BUSHES AND LANDSCAPING APPURTENANCES.	OOM
13.4.2.	AREA. THE CONTRACTOR IS REQUIRED TO HAVE A VALVE	15.3.1. TREES AND BUSHES TO BE REMOVED WILL BE MARKED BY 17.8. THE CONTRACTOR SHALL PROVIDE ALL APPROPRIATE HOIST	
13.4.2.	OPERATING KEY ON SITE IN THE EVENT OF SUCH A FAILURE.	THE ENGINEER IN THE FIELD.  EQUIPMENT TO HANDLE THE PIPE WHILE UNLOADING AND PI  15.3.2 TREE TRIMMING SHALL BE AT THE DIRECTION OF THE FIELD.  IT IN ITS FINAL POSITION WITHOUT DAMAGE TO THE PIPE.	ACING
13.4.3.	THE CITY DIVISION SHALL BE NOTIFIED IMMEDIATELY AFTER THE SHUTDOWN.	15.3.2. TREE TRIMMING SHALL BE AT THE DIRECTION OF THE FIELD IT IN ITS FINAL POSITION WITHOUT DAMAGE TO THE PIPE.  ENGINEER. 17.8.1. PIPE, FITTINGS, VALVES, AND OTHER ACCESSORIES S	TING ACING  SHALL, E POINT SITE OF  ARE TO ANY
13.4.4.	THE SHUTDOWN.  CITY CREWS WILL OPERATE THE VALVES AFTER REPAIRS	15.3.3. ANY ROOTS EXPOSED OR REMOVED BY EXCAVATION SHALL  UNLESS OTHERWISE DIRECTED, BE UNLOADED AT THE SHAPE OF DELIVERY, HAULED TO AND DISTRIBUTED AT THE SHAPE OF DELIVERY, HAULED TO AND DISTRIBUTED AT THE SHAPE OF DELIVERY.	E POINT USE OF
1	HAVE BEEN MADE AND INSPECTIONS HAVE BEEN COMPLETED.	BE IMMEDIATELY SAWCUT AND SEALED TO PREVENT OF DELIVERY, HAULED TO AND DISTRIBUTED AT THE FURTHER DAMAGE TO THE TREE.	3
13.5.	EXISTING SANITARY SEWER LINES AND MANHOLES WITHIN THE	15.3.4. ROOTS SHALL NOT BE LEFT EXPOSED WITHOUT SOIL COVER 17.8.2. MATERIALS SHALL AT ALL TIMES BE HANDLED WITH C AVOID DAMAGE. UNDER NO CIRCUMSTANCES SHALL	ARE TO
	CONSTRUCTION LIMITS SHALL BE PROTECTED AT ALL TIMES DURING	FOR MORE THAN 24 HOURS.  15.4. THE CONTRACTOR SHALL VERIFY ALL WATERMAIN, STORM, AND  AVOID DAMAGE. UNDER NO CIRCUMS LANCES SHALL MATERIALS BE DROPPED.	- ANI
13.5.1.	CONSTRUCTION.  THE UPSTREAM ENDS OF EXISTING SANITARY SEWER LINES	SANITARY CONNECT TO EXISTING LOCATIONS AND ELEVATIONS 17.8.3. PIPE HANDLED ON SKIDWAYS MUST NOT BE SKIDDED	
	DOWNSTREAM FROM NEW SANITARY SEWER CONSTRUCTION	PRIOR TO CONNECTION.  ROLLED AGAINST PIPE ALREADY ON THE GROUND. IN  15.4.1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY  DISTRIBUTING THE MATERIALS AT THE SITE OF WORK	
	SHALL BE PLUGGED AT LOCATIONS TO BE APPROVED BY THE ENGINEER. WATER, STONE, DIRT, GRAVEL, ASPHALT,	DEVIATIONS FROM PLAN.  THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY  PIECE SHALL BE UNLOADED OPPOSITE OR NEAR THE WHERE IT IS TO BE LAID IN THE TRENCH.	PLACE
	CONCRETE OR ANY OTHER DEBRIS SHALL NOT BE ALLOWED TO ENTER THE CITY'S SANITARY SEWER SYSTEM DURING	15.4.2. NO ADDITIONAL COMPENSATION SHALL BE GIVEN FOR ELEVATION AND/OR LOCATION CHANGES, EXCEPT THAT  17.8.4. WATERIALS SHALL BE HANDLED IN SUCH A MANNER TO THE PRENCH.  WHERE IT IS TO BE LAID IN THE TRENCH.	HAT NO
	FLUSHING OPERATIONS OR AT ANY OTHER TIME.	ADDITIONAL LENGTHS SHALL BE PAID AT UNIT BID PRICES.  DAMAGE TO THE PIPE WILL RESULT.	
13.5.2.	CONSTRUCTION TAKING PLACE IN THE VICINITY OF ANY EXISTING CITY SANITARY SEWER LINES OR MANHOLES SHALL	15.5. PRIOR TO GRADING, ALL TOPSOIL, VEGETATION, BRUSH, TREES (INCLUDING ROOT BALLS), OLD CONSTRUCTION DEBRIS, AND  17.9. PVC AND POLYETHYLENE PIPE SHALL BE STORED COVERED DIRECT SUNLIGHT.	OUT OF
	NOT CAUSE ANY INFLOW OF SURFACE WATER, GROUND	EXISTING STRUCTURES AND PAVEMENTS SHALL BE REMOVED. 17.10. CUTTING PIPE: CUTTING SHALL COMPLY WITH PIPE	W COTH
	WATER, WATER FROM DAMAGED WATER LINES, OR DEBRIS TO ENTER THE CITY'S SANITARY SEWER SYSTEM. THE	15.6. DURING EARTHWORK CONSTRUCTION OPERATIONS, UNFORESEEN MANUFACTURER'S RECOMMENDATIONS. CUTS SHALL BE SM  LINDER POOLING OPERACLES SUCH AS CONCRETE BURDLE, OLD STRAIGHT, AND AT RIGHT ANGLES TO PIPE AXIS.	OOTH, SHEET TITLE:  CIVIL CONSTRUCTION NOTES
	CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES	PIPING, AND MISCELLANEOUS TRASH MAY BE ENCOUNTERED AND  17.10.1. SHARP CORNERS SHALL BE REMOVED AND THE PIPE	CLIENT: PREPARED BY: CSD
	OR COSTS INCURRED TO THE CITY'S SANITARY SEWER SYSTEM, AND/OR PRIVATE PROPERTY, AND ANY ACTIONS	REMOVAL OF SUCH BY THE CONTRACTOR IF NECESSARY TO  BEVELED TO MANUFACTURER'S RECOMMENDATION.  COMPLETE THE WORK SHALL BE CONSIDERED INCIDENTAL.  17.11. RESTRAINING REQUIREMENTS: ALL VALVES, TEES, CROSSE:	CITY OF MINNETRISTA CHECKED BY: DL
1	DUE TO SPILLS, OVERFLOWS, INFLOWS, LIFT STATION	15.6.1. REMOVED PAVEMENT, CONCRETE, PIPES, ROOTS AND ANY BENDS SHALL BE CONNECTED TO THE WATER MAIN WITH AN	PROJECT NO: P05355-2023-002 SHEET DESIGNATOR: SHEET NO:
	SURCHARGES, CITY WATER DISCHARGE, SANITARY SEWER	APPROVED JOINT RESTRAINT. COSTS OF ALL RESTRAINTS S	DATE: JULY 2025 GEN C005
			ALT. PROJECT NO: 000-0000

17.12.	INCIDENTAL TO THE FITTINGS.  THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION, ELEVATION.
17.12.	SIZE, AND MATERIAL OF THE EXISTING UNDERGROUND PIPING AT THE POINTS OF CONNECTION.
17.12.1.	APPROVED TRANSITIONS SHALL BE USED TO MAKE ALL CONNECTIONS.
17.12.2.	PRECISE LOCATION AND ARRANGEMENT OF CONNECTIONS OF NEW PIPELINES WITH EXISTING PIPELINES ARE TO BE FIELD VERIFIED.
17.12.3.	PROVIDE FITTINGS, ADAPTERS, SOLID SLEEVE CLOSURES, HARNESSED MECHANICAL COUPLINGS, AND ROTATE FITTINGS, AND DEFLECT JOINTS AS REQUIRED TO MAKE CONNECTIONS.
17.12.4.	PROVIDE TEMPORARY PLUG WITH FACTORY OUTLET SIZED AS REQUIRED FOR CONTRACTOR'S TESTING AND DISINFECTION WORK BEFORE MAKING CONNECTION.
17.12.5.	ANY DIFFERENT FITTINGS NECESSARY TO MAKE ALL CONNECTIONS SHALL BE INCIDENTAL.
17.13.	WHERE EXISTING UTILITY WIRES (TELEPHONE, ELECTRIC, FIBER OPTIC) ARE LOCATED ADJACENT TO OR ABOVE THE PROPOSED WORK, CONTRACTOR SHALL TEMPORARILY SUPPORT EXISTING WIRES AND INSTALL PIPING UNDER EXISTING WIRES.
17.13.1.	ANY DECISION TO HAVE THE EXISTING UTILITIES RELOCATE WIRES WILL BE AT THE CONTRACTOR'S EXPENSE.
17.13.2.	CONTRACTOR SHALL HAVE THE UTILITY COMPANY PROVIDE AN ON-SITE REPRESENTATIVE TO INSPECT THE EXCAVATION AND TEMPORARY SUPPORT OF THE EXISTING UTILITY WIRES TO ENSURE THEY CONCUR WITH THE METHOD USED FOR TEMPORARY SUPPORT.
17.13.3.	THE CONTRACTOR IS RESPONSIBLE FOR COMPLETION OF WORK AS INDICATED AND MEETING ALL UTILITY REQUIREMENTS TO ENSURE A FINAL INSTALLATION THAT BENEFITS BOTH THE CITY AND THE UTILITY COMPANY.
18. WATE	R MAIN AND APPURTENANCES
18.1.	ALL WATER DISTRIBUTION MATERIALS SHALL MEET NSF / ANSI STANDARD 61 - DRINKING WATER SYSTEM COMPONENTS, HEALTH EFFECTS, NSF/ANSI 61, AND NSF/ANSI 372.
18.2.	ALL VALVE OPERATION WILL BE DONE BY THE CITY WATER DEPARTMENT.
18.3.	THE CITY OR ITS REPRESENTATIVE SHALL NOTIFY ALL CONSUMERS AFFECTED BY ANY INTERRUPTION OF WATER SERVICE AT LEAST 48 HOURS BEFORE THE INTERRUPTION OF WATER SERVICE.
18.3.1.	CONSUMERS SHALL BE VERBALLY NOTIFIED WHEN POSSIBLE. IN THE EVENT A CONSUMER CANNOT BE VERBALLY NOTIFIED, A DOOR HANGER SHALL BE SECURED TO THE MOST FREQUENTLY USED ENTRANCE BY THE CITY OR ITS REPRESENTATIVE.
18.4.	ALL WATERMAIN SHALL BE AWWA C151/A21.51 UNLESS OTHERWISE NOTED.
18.5.	ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE WRAPPED WITH POLYETHYLENE TUBE MATERIAL TO PROTECT THE PIPE FROM ANY FUTURE CORROSION.
18.5.1.	THE POLY MATERIAL SHALL BE INSTALLED AS DETAILED IN THE SUPPLEMENTAL SPECIFICATIONS AND THE DUCTILE IRON HANDBOOK FROM DIPRA AND ANSI A21.5 (AWWA C105).
18.6.	WATER MAIN DISINFECTION
18.6.1.	AFTER DISINFECTION AND FINAL FLUSHING AND BEFORE THE NEW WATER MAIN IS CONNECTED TO THE DISTRIBUTION SYSTEM IN ACCORDANCE WITH AWWA GUIDELINES.
18.6.2.	WHEN MINOR WATER MAIN WORK OCCURS (I.E. TIE-IN CONNECTIONS OF NEW WATER MAIN TO EXISTING WATER MAIN, WATER MAIN ADJUSTMENTS, INSTALLATION OF NEW VALVES ON EXISTING MAIN OR ANY OTHER WORK DEEMED MINOR BY THE ENGINEER) THE EXISTING MAIN, PRIOR TO THE COMPLETION OF THE BACTERIA TESTING, MAY BE RETURNED TO SERVICE ONCE THE LINE HAS BEEN FLUSHED AND A BOIL ORDER HAS BEEN ISSUED.
18.6.2.	<ol> <li>THE BOIL ORDER WILL BE RESCINDED WITH THE PASSING OF THE BACTERIA TEST.</li> </ol>
18.6.3.	WATER FROM THE CITY'S WATER DISTRIBUTION SYSTEM THAT IS DRAINED INTO WORK AREAS OR OPEN TRENCHES MUST BE DISCHARGED WITHOUT IMPACT TO THE ENVIRONMENT.
18.6.3.	THE CONTRACTOR SHALL REVIEW LOCATIONS OF DISCHARGE HYDRANTS RELATIVE TO OPEN AREAS AND SHALL MEET WITH PROPERTY OWNERS TO DISCUSS DISCHARGE LOCATIONS AND OBTAIN PROPERTY OWNER APPROVAL IF WATER WILL BE DISCHARGED ACROSS THEIR PRIVATE PROPERTY.

DISCHARGED ACROSS THEIR PRIVATE PROPERTY.

IF THE DISCHARGE LOCATION IS CLOSE TO WATERS OF THE

STATE, DISCUSS EXCAVATION OF DEPRESSIONS OR BERMS

18.6.3.2.

18.6.3.3.

18.6.3.4.

18.6.3.5.

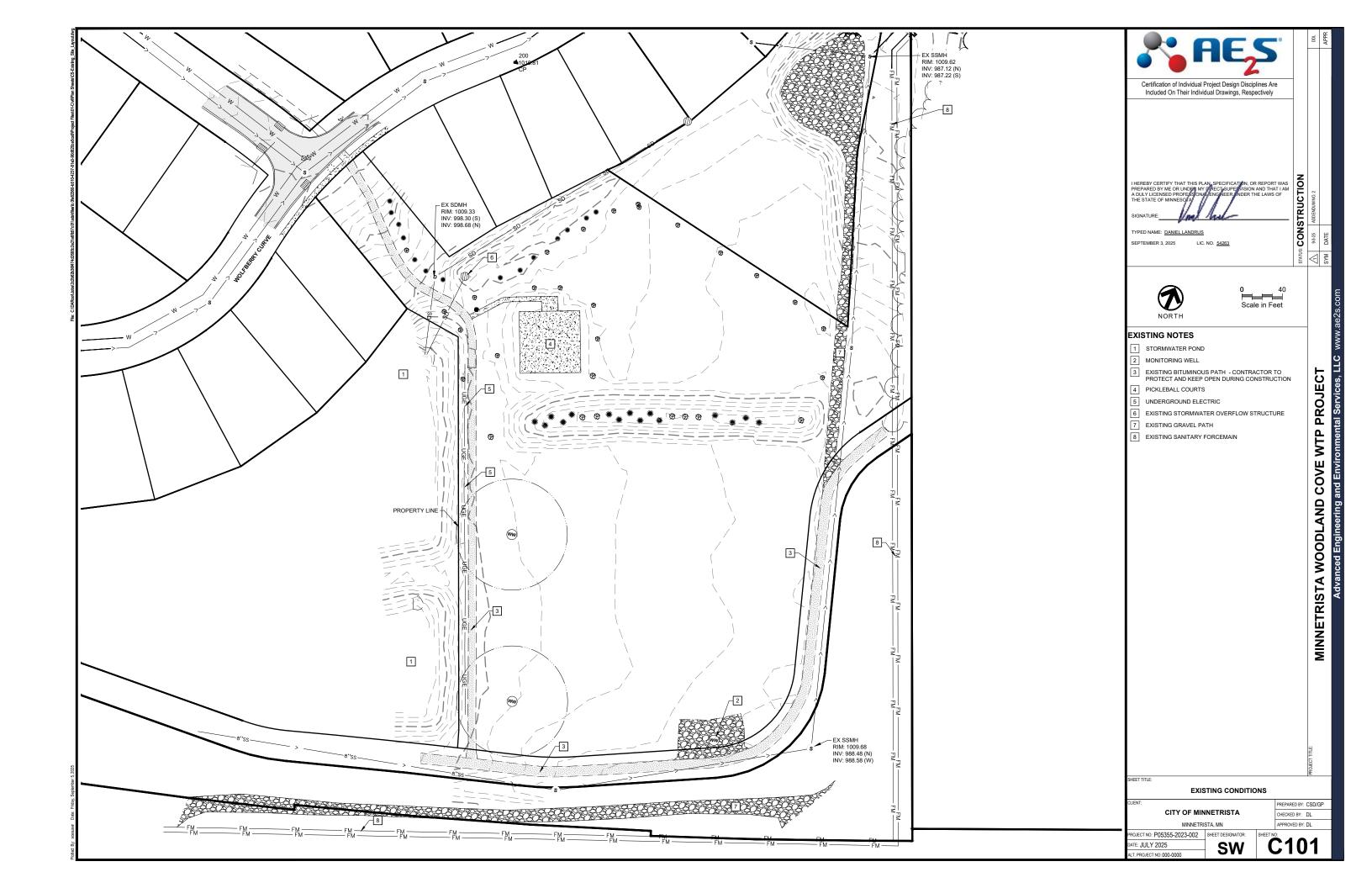
18.7.

(BMP'S) WITH THE CITY AND PROPERTY OWNER(S) TO ACCOMMODATE DISCHARGE VOLUMES. WATER FROM THE DISTRIBUTION SYSTEM SHALL BE PUMPED OR FLUSHED TO THESE BMP'S AND SHALL BE STORED AND DISCHARGED Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively THROUGH INFILTRATION. OVERLAND FLOW IS NOT ALLOWED. WATER THAT IS DISCHARGED DURING WATER MAIN FLUSHING SHALL NOT REACH A STREAM, RIVER OR WATER WAY IF THE CHLORINE RESIDUAL EXCEEDS 0.05 MG/L. WATER FROM THE DISTRIBUTION SYSTEM MAY BE PUMPED INTO VACTOR TRUCKS OR SEPTIC TANK TRUCKS AND HAULED TO AN APPROVED PERMITTED FACILITY TO ACCEPT SUCH DISCHARGE. PERMISSION MUST BE OBTAINED BY THE CITY FOR THE DISCHARGE OF WATER FROM THE DISTRIBUTION SYSTEM INTO CITY'S SANITARY SEWER SYSTEM. CONTRACTOR IS RESPONSIBLE FOR VERIFYING HYDRAULIC LOADING ON EXISTING SANITARY SEWER SYSTEM DURING TRENCH DEWATERING OPERATIONS TO ENSURE THAT SEWER BACKUPS DO TYPED NAME: DANIEL LANDRUS SEPTEMBER 3, 2025 LIC. NO. 54263 MINNETRISTA WOODLAND COVE WTP PROJECT CIVIL CONSTRUCTION NOTES PREPARED BY: CSD CITY OF MINNETRISTA CHECKED BY: DL MINNETRISTA, MN APPROVED BY: DL ROJECT NO: P05355-2023-002 SHEET DESIGNATOR:

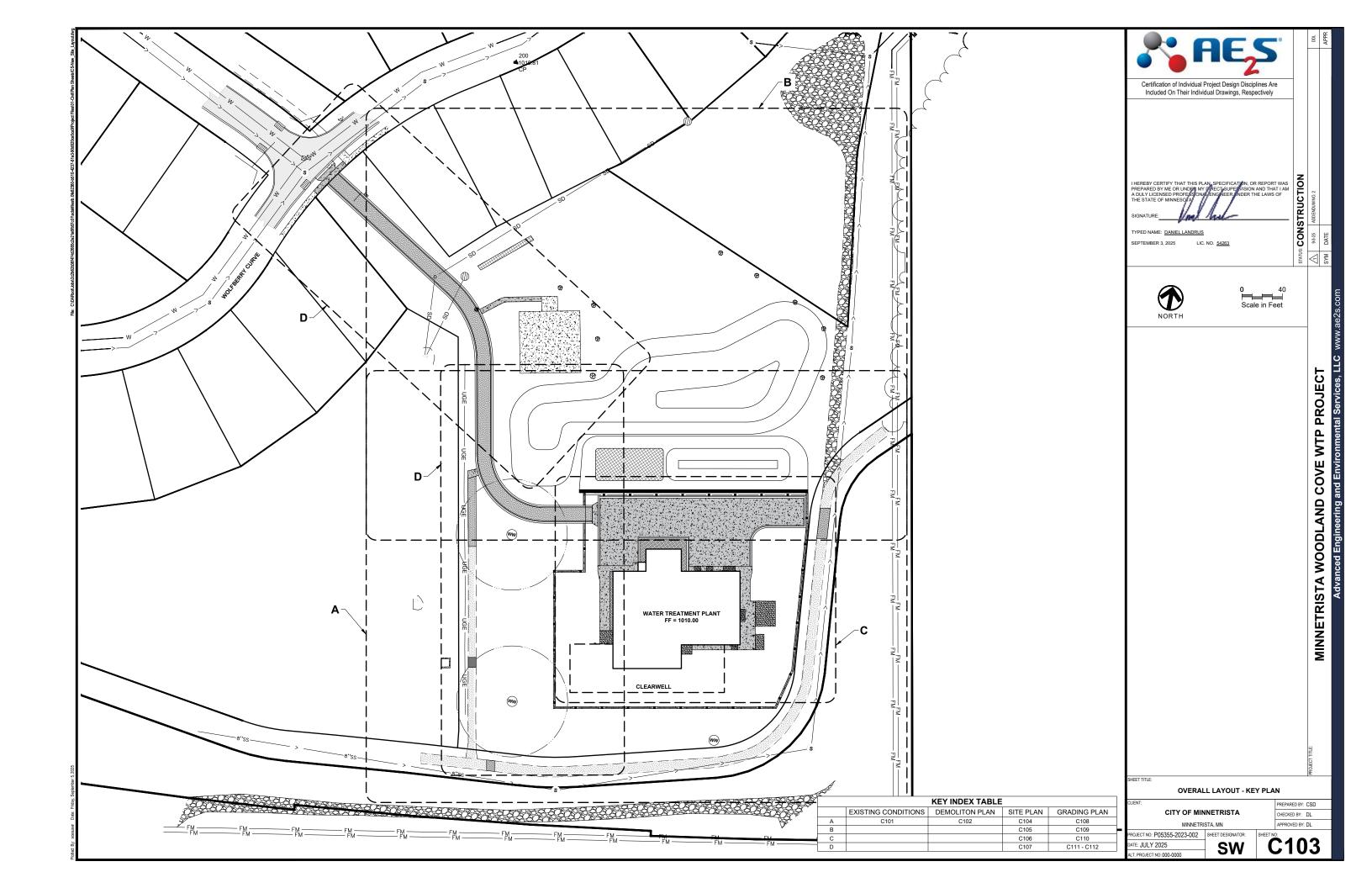
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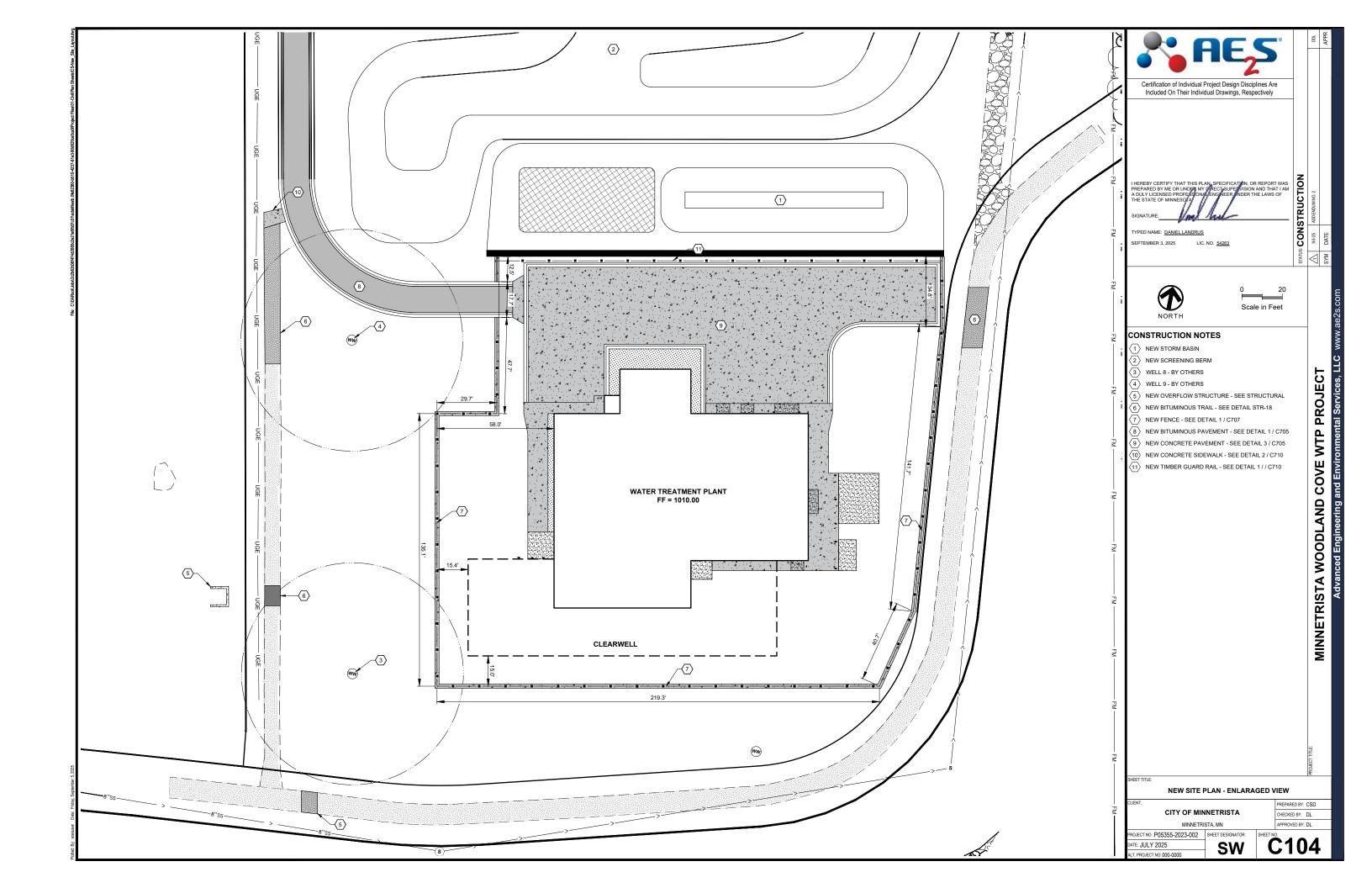
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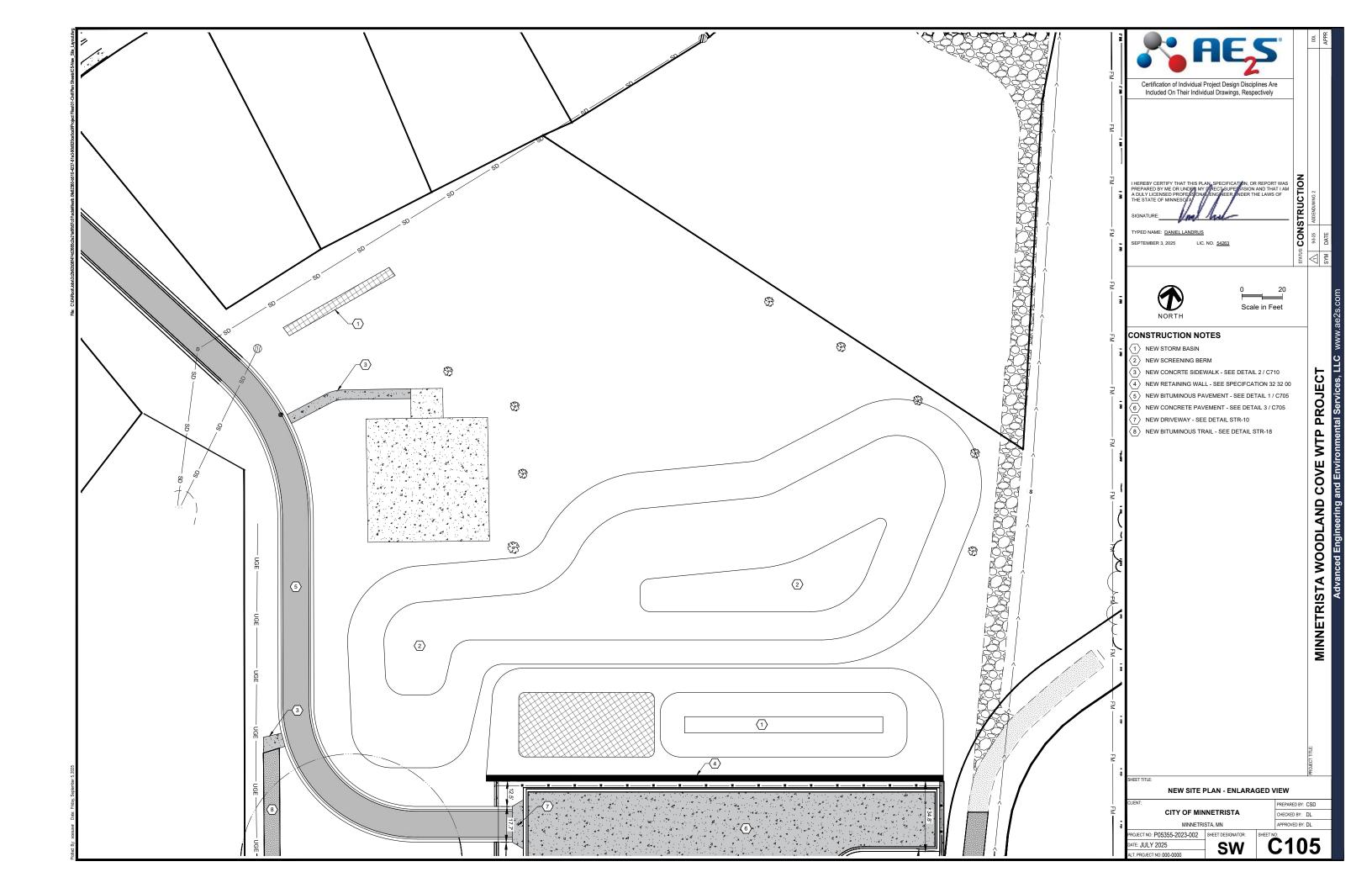
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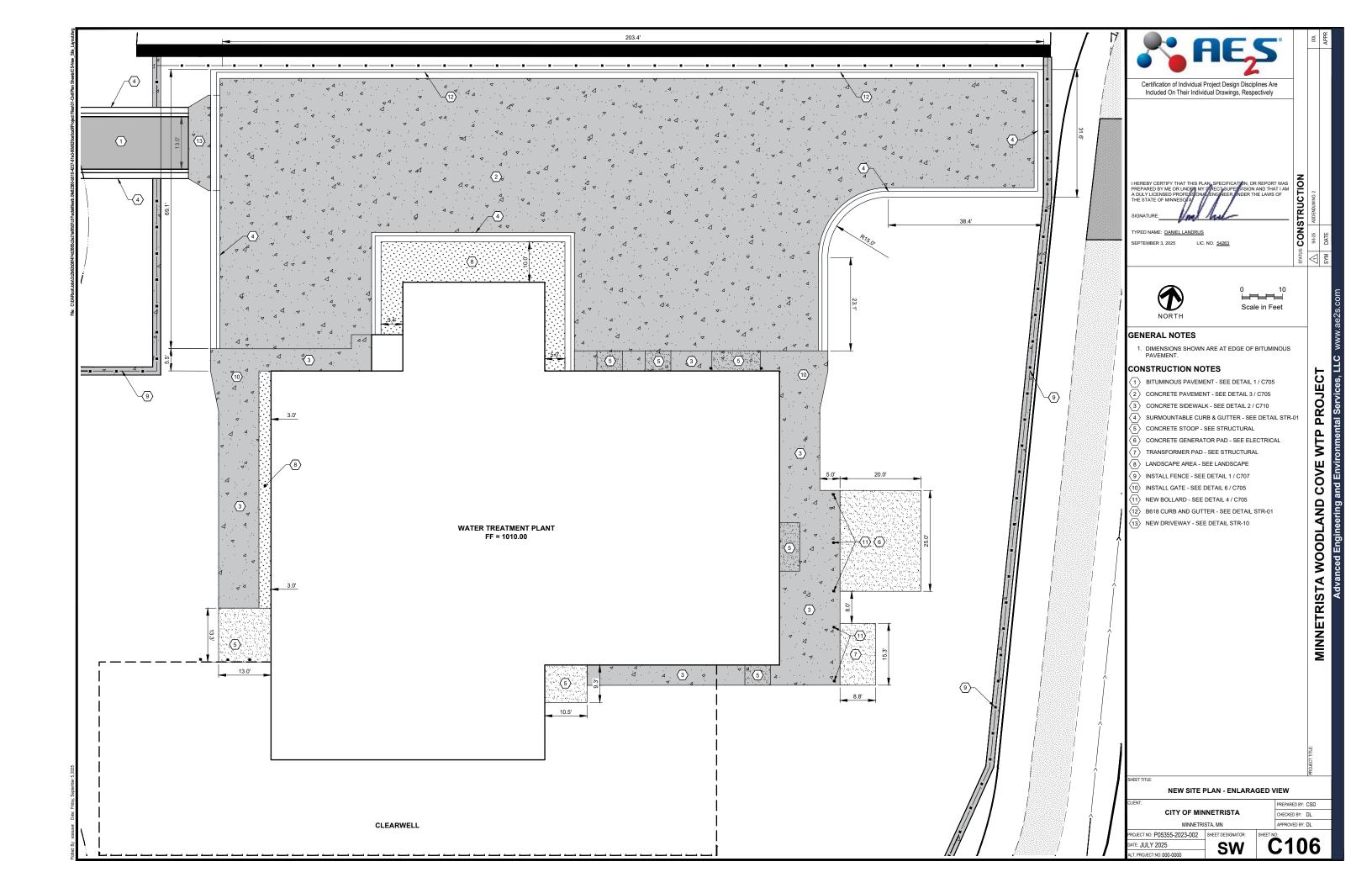


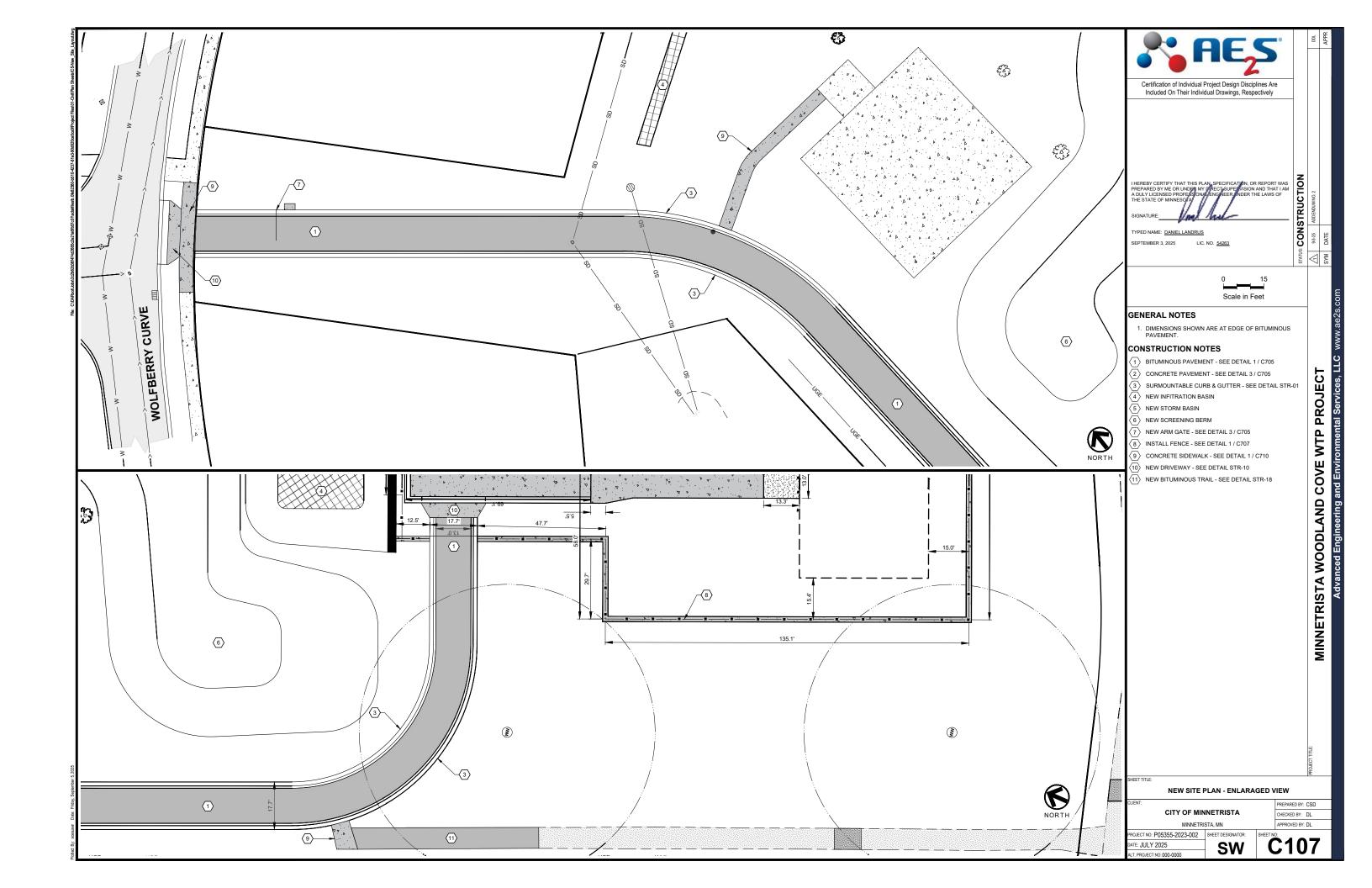


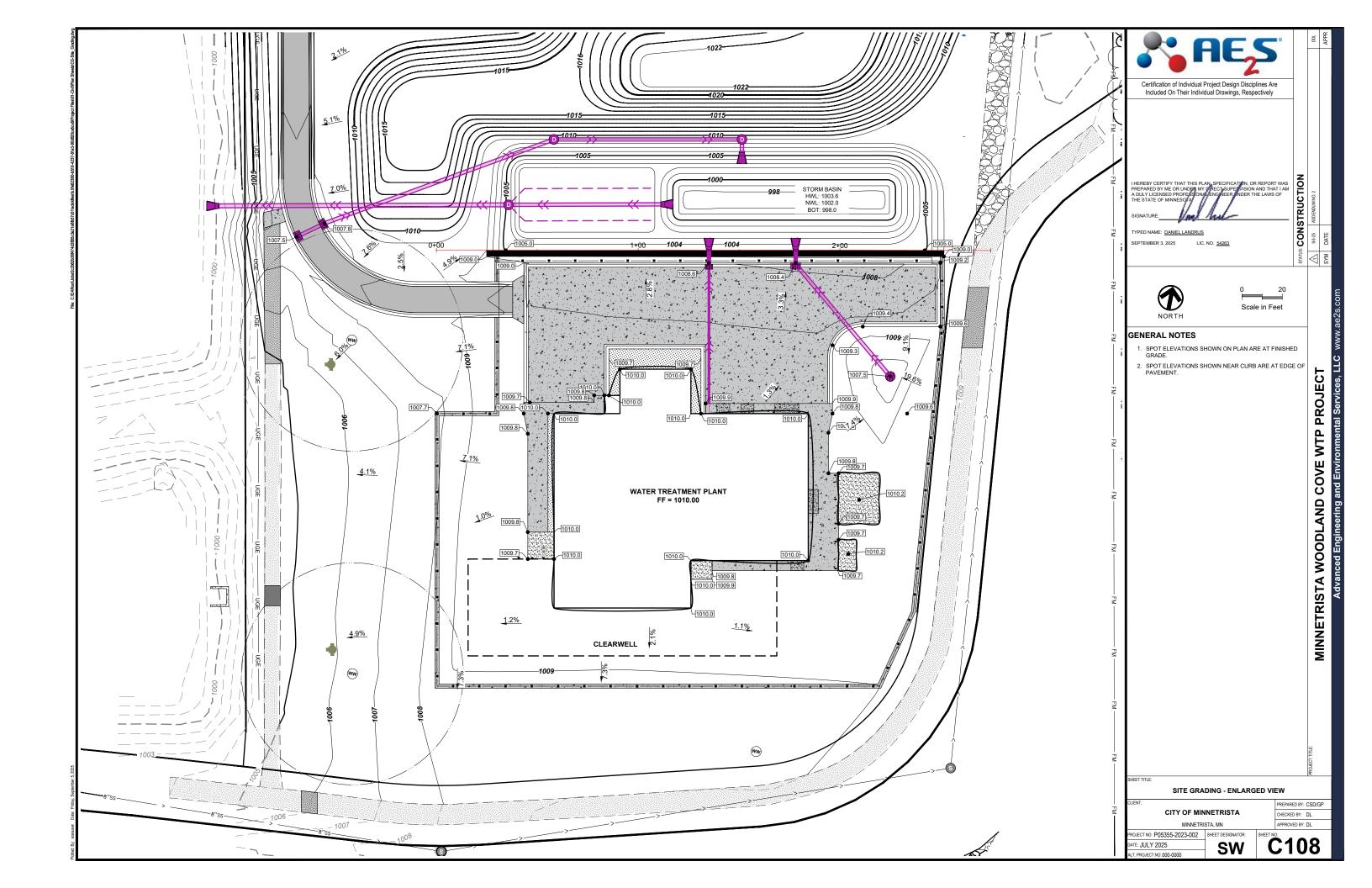


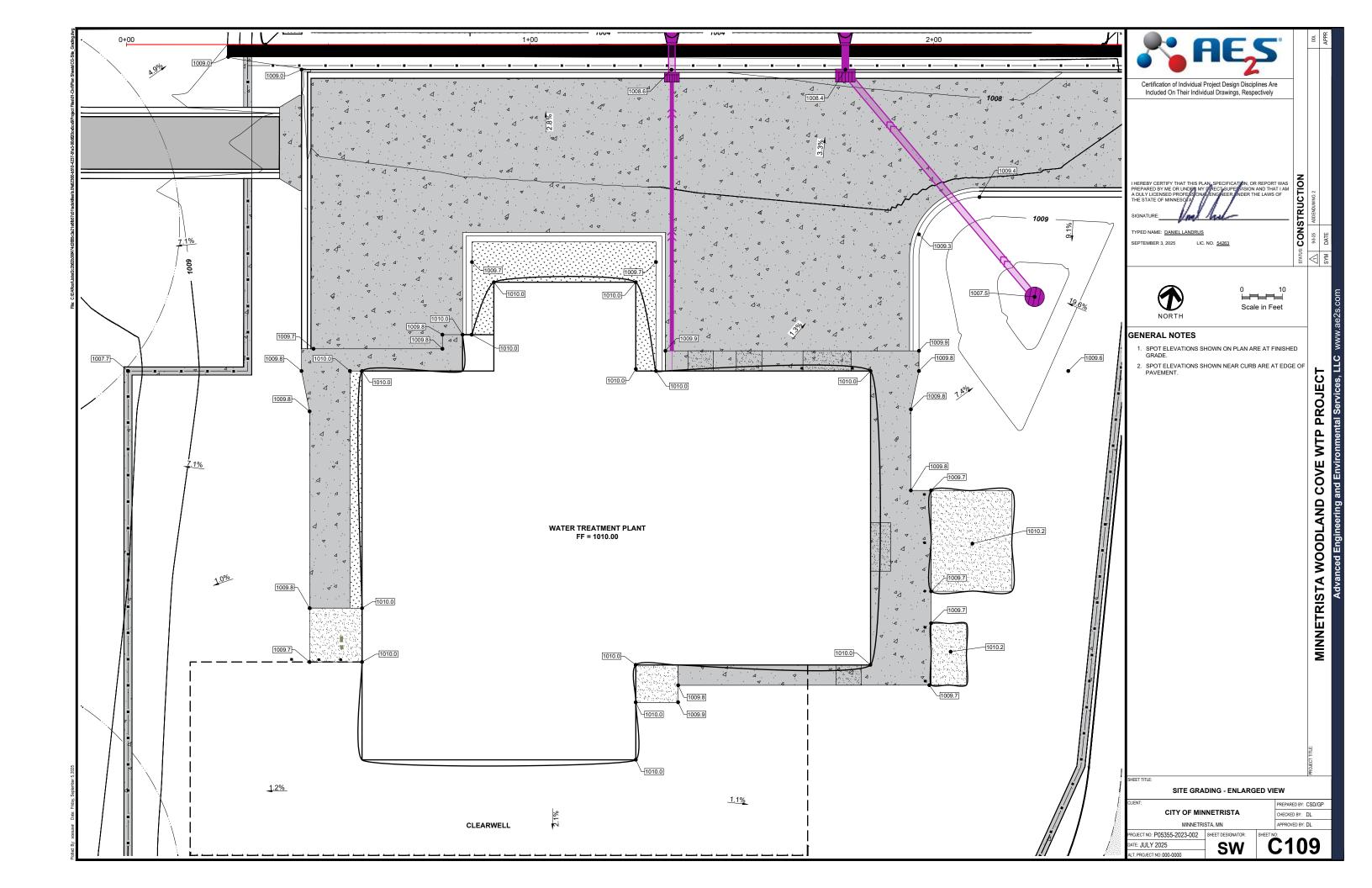


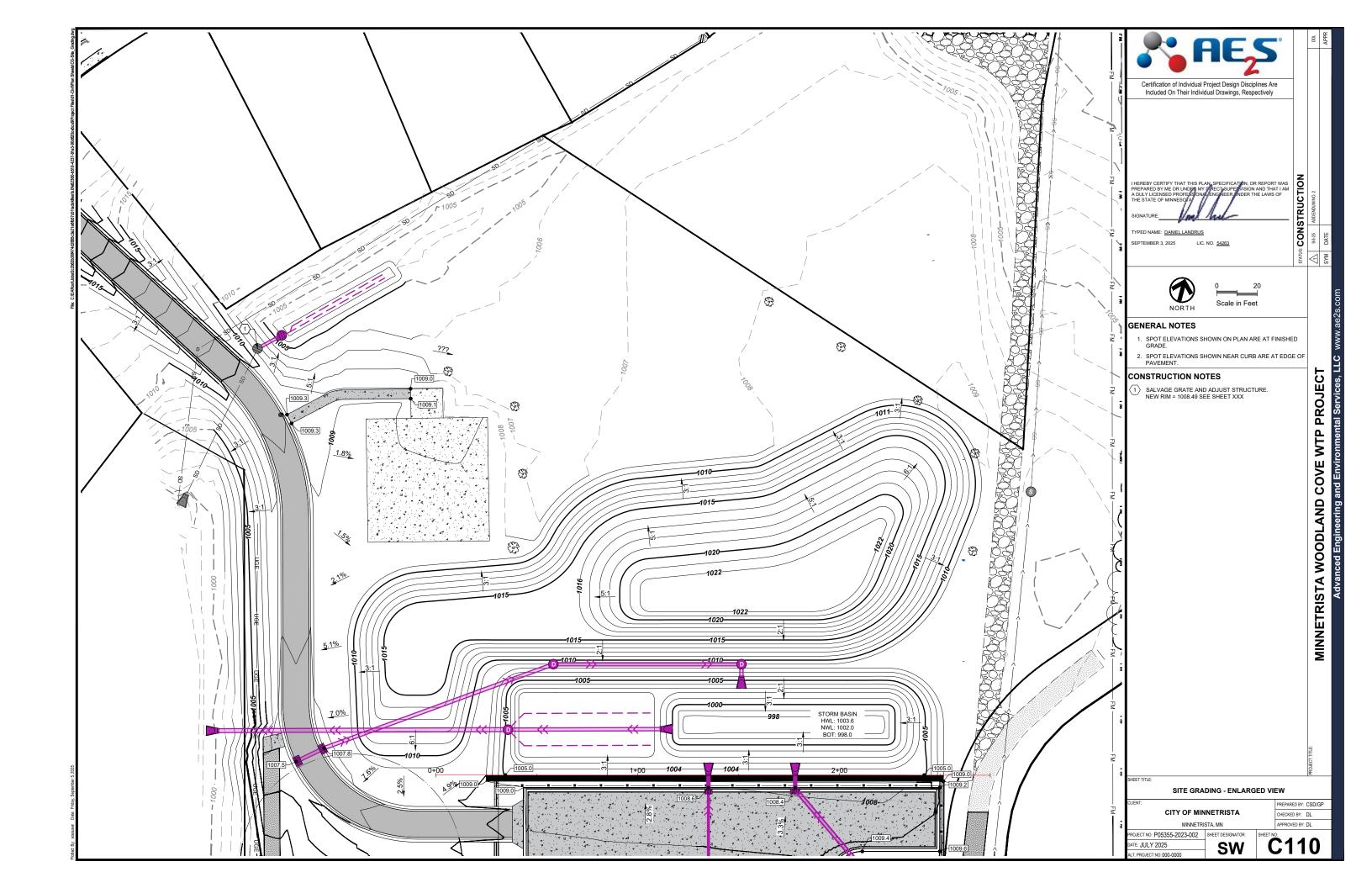


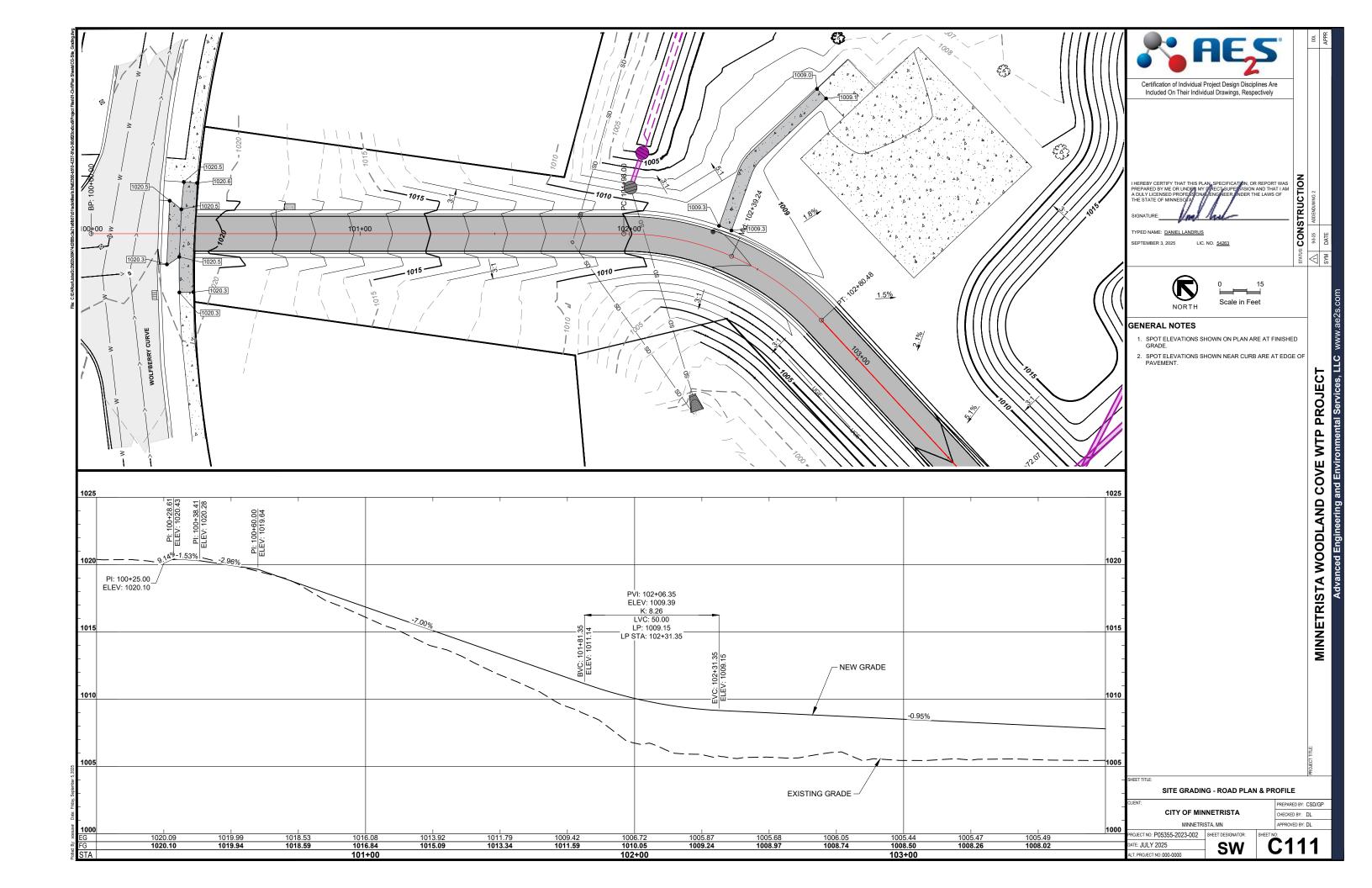


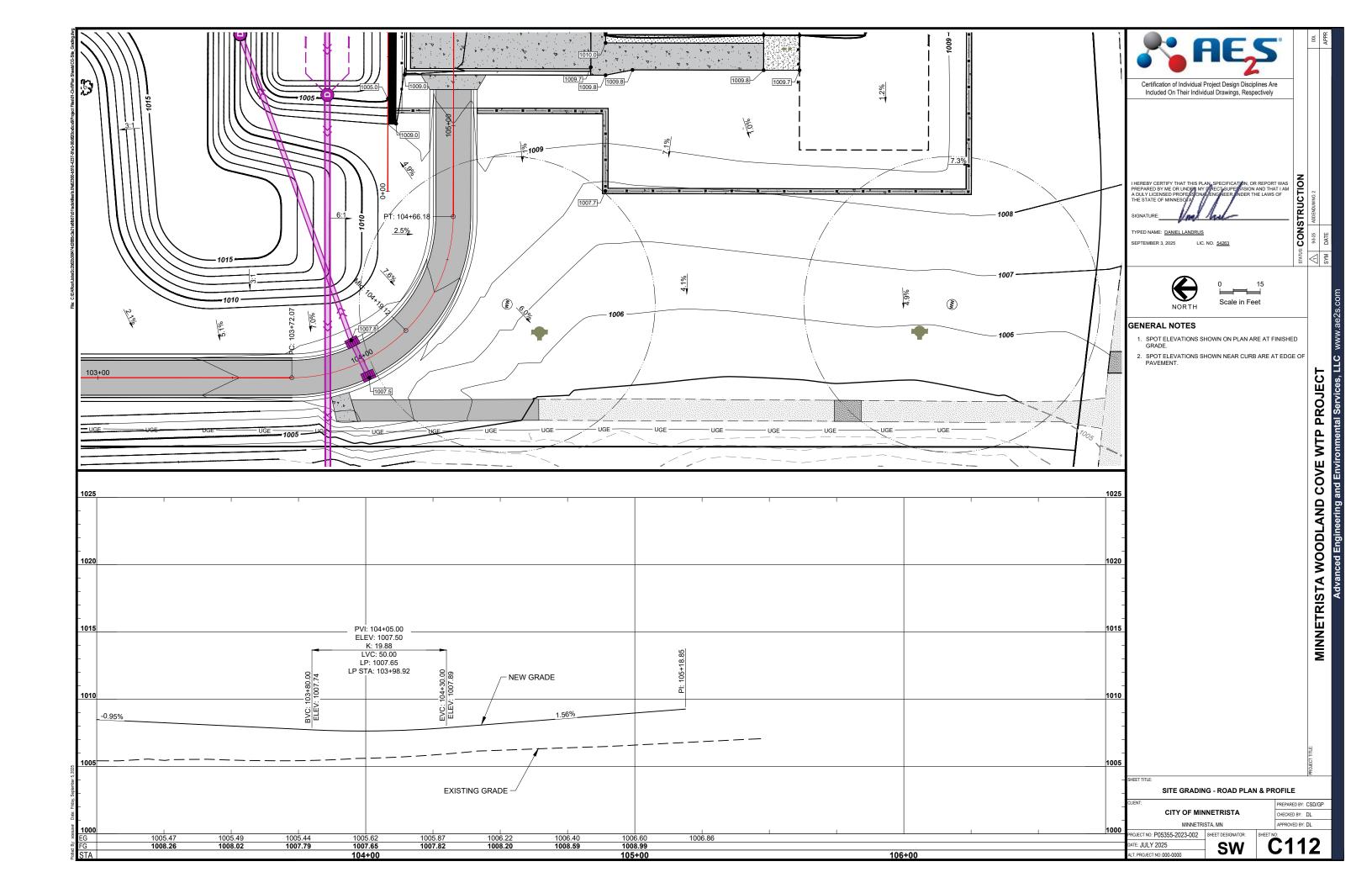


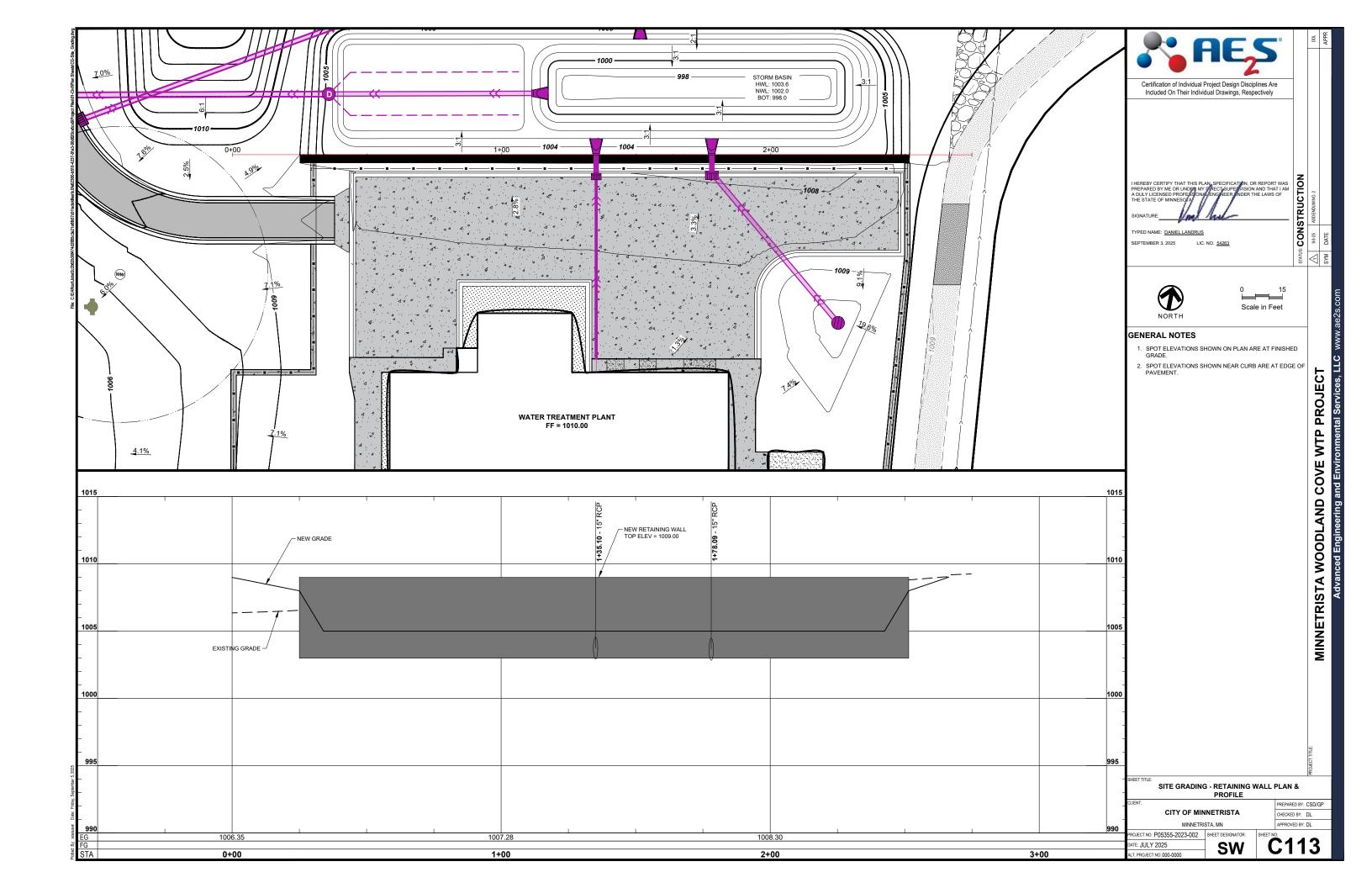












### STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

WPPP SUMMARY/OVERVIEW: HIS STORM WATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN DEVELOPED TO ADDRESS THE REQUIREMENTS OF NPDES PERMIT MN R100001, PART III, SUBPART A. THIS SWPPP INCLUDES A COMBINATION OF NARRATIVE AND PLAN SHEETS THAT DESCRIBE THE TEMPORARY AND PERMANENT STORM WATER MANAGEMENT PLAN FOR THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR AMENDING THE SWPPP WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE WHICH HAS POTENTIAL FOR DISCHARGE OF POLLUTANTS TO WATERS OF THE STATE.

### PROJECT INFORMATION:

LOCATION:	Minnetrista, Minnesota
LATITUDE/LONGITUDE::	44.8928, 93.6877, 0.0000
PROJECT DESCRIPTION:	Minnetrista WTP
SOIL DISTURBING ACTIVITIES:	Excavation, grading, utilities relocation, erosion control and vegetation establishment

### CONTACTS:

OWNER:	City of Minnetrista
CONTACT:	Gary Peters, Public Works Director
ADDRESS:	7701 County Road 110W, Minnetrista, MN 55364
PHONE:	952-446-1660
EMAIL:	garypeters@ci.minnetrista.mn.us
ENGINEER:	Advanced Engineering and Environmental Services, LLC (AE2S)

ENGINEER:	Advanced Engineering and Environmental Services, LLC (AE2S)
CONTACT:	Dan Landrus, PE
PHONE:	763-463-5036
EMAIL:	dan.landrus@ae2s.com
PROJECT NO.:	P05355-2023-002

GENERAL SWPPP RESPONSIBILITIES:
THE CONTRACTOR SHALL KEEP THE SWPPP, INCLUDING ALL AMENDMENTS AND INSPECTION AND MAINTENANCE RECORDS ON SITE DURING CONSTRUCTION.

THE SWPPP WILL BE AMENDED AS NEEDED AND/OR AS REQUIRED BY PROVISIONS OF THE PERMIT. AMENDMENTS WILL BE APPROVED BY BOTH THE OWNER AND CONTRACTOR AND WILL BE ATTACHED OR OTHERWISE INCLUDED WITH THE SWPPP DOCUMENTS. THE SWPPP AMENDMENTS SHALL BE INITIATED, FACILITATED, AND PROCESSED BY THE CONTRACTOR. THE SWPPP AND AMENDMENTS SHALL BE KEPT ON SITE BY THE CONTRACTOR WHENEVER CONSTRUCTION ACTIVITY IS IN PROGRESS

THE CONTRACTOR SHALL DOCUMENT AMENDMENTS TO THE SWPPP AS A RESULT OF INSPECTION(S) WITHIN 7 DAYS.

BOTH THE OWNER AND CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER TERMINATION AND/OR TRANSFER OF THE PERMIT.

KNOWLEDGEABLE PERSONICHAIN OF RESPONSIBILITY
THE CONTRACTOR SHALL IDENTIFY A PERSON KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL BMPS WHO WILL OVERSEE THE IMPLEMENTATION OF THE SWPPP, INCLUDING: INSTALLATION, INSPECTION AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BMPS. THE GENERAL CONTRACTOR SHALL ATTACH CONTACT INFORMATION TO THE SWPPP PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY.

ONTRACTOR:	
CONTACT:	
PHONE:	
EMAIL:	

THE CONTRACTOR SHALL ESTABLISH A CHAIN OF RESPONSIBILITY FOR ALL CONTRACTORS AND SUB-CONTRACTORS ON SITE TO ENSURE THE SWPPP IS BEING PROPERLY IMPLEMENTED AND MAINTAINED. THE CONTRACTOR SHALL PROVIDE THE CHAIN OF RESPONSIBILITY TO THE OWNER AND ATTACH TO THE SWPPP PRIOR TO ANY CONSTRUCTION ACTIVITY.

# TRAINING DOCUMENTATION

TRAINING DOCUMENTATION.	
PREPARER/DESIGNER OF SWPPP:	Lucas LaMoore
EMPLOYER:	AE2S
TRAINING AND DATE OBTAINED:	DESIGN OF CONSTRUCTION SWPPP (EXPIRES 2029)
NAME OF INSTRUCTOR(S):	DR. JOHN CHAPMAN

THE CONTRACTOR (OPERATOR) SHALL ADD TO THE SWPPP TRAINING RECORDS FOR THE FOLLOWING PERSONNEL:

-INDIVIDUALS OVERSEEING THE IMPLEMENTATION OF, REVISING, AND AMENDING THE SWPPP-INDIVIDUALS PERFORMING INSPECTIONS

-INDIVIDUALS PERFORMING OR SUPERVISING THE INSTALLATION, MAINTENANCE AND REPAIR OF BMPS

TRAINING MUST RELATE TO THE INDIVIDUAL'S JOB DUTIES AND RESPONSIBILITIES AND SHALL INCLUDE:

- 1) DATES OF TRAINING
- 2) NAME OF INSTRUCTORS
- 3) CONTENT AND HOURS OF TRAINING

THE CONTRACTOR SHALL ENSURE THAT THE INDIVIDUALS ARE TRAINED BY LOCAL, STATE, FEDERAL AGENCIES, PROFESSIONAL ORGANIZATIONS, OR OTHER ENTITIES WITH EXPERTISE IN EROSION PREVENTION, SEDIMENT CONTROL, PERIMETER CONTROL, PERMANENT STORMWATER MANAGEMENT AND THE MINNESOTA NPDES/SDS CONSTRUCTION STORMWATER PERMIT

# PROJECT SUMMARY

TOTAL PROJECT AREA:	6.21 AC
TOTAL DISTURBED AREA:	3.69 AC
PRE-CONSTRUCTION IMPERVIOUS AREA:	0.21 AC
POST-CONSTRUCTION IMPERVIOUS AREA:	0.99 AC
IMPERVIOUS AREA ADDED:	0.78 AC

# THE FOLLOWING DOCUMENTS ARE CONSIDERED PART OF THE SWPPP: - EXISTING CONDITIONS, TRAFFIC AND EROSION CONTROL PLAN SHEETS

- PLAN AND PROFILE SHEETS
- CONSTRUCTION DETAILS
- SWPPP NOTE PLAN SHEETS
- PROJECT BID FORM

PERMANENT STORMWATER MANAGEMENT SYSTEM:
THE PROJECT WILL CREATE MORE THAN 1 ACRE OF NEW IMPERVIOUS AREA THEREFORE PERMANENT STORMWATER
MANAGEMENT IS REQUIRED. BMPS HAVE BEEN DESIGNED TO TREAT THE NECESSARY WATER QUALITY VOLUME.
CALCULATIONS DEMONSTRATING COMPLIANCE WITH THE NPDES PERMIT ARE AVAILABLE AT AE2S.



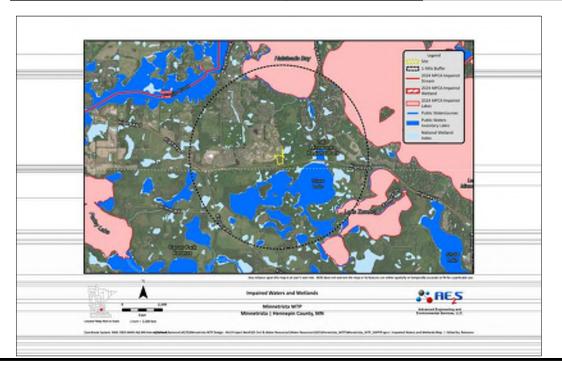
# RECEIVING WATER(S) WITHIN ONE MILE FROM PROJECT BOUNDARIES:

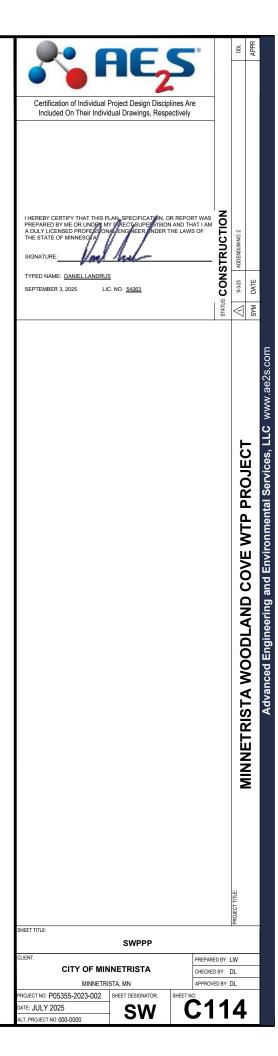
ID	NAME	TYPE	SPECIAL WATER CLASSIFICATION	TMDL
27-0133-09	Halsteds Bay (LakeMinnetonka)	Lake	NONE	Nutrients & Hg-F (Approved by USEPA)
27-0133-05	Upper Lake (Lake Minnetonka)	Lake	NONE	Hg-F (Approved by USEPA)
10-0041-00	Lake Zumbra	Lake	NONE	Hg-F (Approved by USEPA)

ADDITIONAL BMPS AND/OR ACTIONS REQUIRED: DURING CONSTRUCTION: PERMITTEES MUST IMMEDIATELY INITIATE STABILIZATION OF EXPOSED SOIL AREAS, AS DESCRIBED IN ITEM 8.4, AND COMPLETE THE STABILIZATION WITHIN SEVEN (7) CALENDAR DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE TEMPORARILY OR PERMANENTLY CEASES. PERMITTEES MUST PROVIDE A TEMPORARY SEDIMENT BASIN AS DESCRIBED IN SECTION 14 FOR COMMON DRAINAGE LOCATIONS THAT SERVE AN AREA WITH FIVE (5) OR MORE ACRES DISTURBED AT ONE TIME. PERMITTEES MUST INCLUDE AN UNDISTURBED BUFFER ZONE OF NOT LESS THAN 100 LINEAR FEET FROM A SPECIAL WATER (NOT INCLUDING TRIBUTARIES) AND MUST MAINTAIN THIS BUFFER ZONE AT ALL TIMES, BOTH DURING CONSTRUCTION AND AS A PERMANENT FEATURE POST CONSTRUCTION, EXCEPT WHERE A WATER CROSSING OR OTHER ENCROACHMENT IS NECESSARY TO COMPLETE THE PROJECT. PERMITTEES MUST FULLY DOCUMENT THE CIRCUMSTANCE AND REASONS THE BUFFER ENCROACHMENT IS NECESSARY IN THE SWPPP AND INCLUDE RESTORATION ACTIVITIES. THIS PERMIT ALLOWS REPLACEMENT OF EXISTING IMPERVIOUS SURFACE WITHIN THE BUFFER. PERMITTEES MUST MINIMIZE ALL POTENTIAL WATER QUALITY, SCENIC AND OTHER ENVIRONMENTAL IMPACTS OF THESE EXCEPTIONS BY THE USE OF ADDITIONAL OR REDUNDANT BMPS AND MUST DOCUMENT THIS IN THE SWPPP FOR THE PROJECT.

POST-CONSTRUCTION: PERMITTEES MUST INCLUDE AN UNDISTURBED BUFFER ZONE OF NOT LESS THAN 100 LINEAR FEET FROM A SPECIAL WATER (NOT INCLUDING TRIBUTARIES) AND MUST MAINTAIN THIS BUFFER ZONE AT ALL TIMES, BOTH DURING CONSTRUCTION AND AS A PERMANENT FEATURE POST CONSTRUCTION, EXCEPT WHERE A WATER CROSSING OR OTHER ENCROACHMENT IS NECESSARY TO COMPLETE THE PROJECT. PERMITTEES MUST FULLY DOCUMENT THE CIRCUMSTANCE AND REASONS THE BUFFER ENCROACHMENT IS NECESSARY IN THE SWPPP AND INCLUDE RESTORATION ACTIVITIES. THIS PERMIT ALLOWS REPLACEMENT OF EXISTING IMPERVIOUS SURFACE WITHIN THE BUFFER. PERMITTEES MUST MINIMIZE ALL POTENTIAL WATER QUALITY, SCENIC AND OTHER ENVIRONMENTAL IMPACTS OF THESE EXCEPTIONS BY THE USE OF ADDITIONAL OR REDUNDANT BMPS AND MUST DOCUMENT THIS IN THE SWPPP FOR THE PROJECT.

DOES THE PROJECT DISCHARGE TO A CALCAREOUS FEN:	No
IS THE PROJECT LOCATED IN A KARST AREA:	No





EMPORARY SEDIMENT BASINS: THE CONTRACTOR MAY USE A TEMPORARY SEDIMENT BASIN DURING THE PROJECT

TEMPORARY SEDIMENT BASIN OUTLETS SHALL BE CONSTRUCTED TO PREVENT SHORT-CIRCUITING AND PREVENT THE DISCHARGE OF FLOATING DEBRIS.

BASINS MUST HAVE THE ABILITY TO ALLOW COMPLETE DRAWDOWN, INCLUDE A STABILIZED EMERGENCY OVERFLOW. WITHDRAW WATER FROM THE SURFACE, AND PROVIDE ENERGY DISSIPATION AT THE OUTLET.

TEMPORARY SEDIMENT BASINS SHALL BE PROVIDED WITH ENERGY DISSIPATION AT ANY BASIN OUTLET TO PREVENT SOIL EROSION.

SEDIMENT BASINS MUST BE SITUATED OUTSIDE OF SURFACE WATERS AND ANY BUFFER ZONES, AND MUST BE DESIGNED TO AVOID THE DRAINING OF WATER FROM WETLANDS.

TEMPORARY SEDIMENT BASINS SHALL BE CONSTRUCTED AND MADE OPERATIONAL CONCURRENT OR PRIOR TO SOIL DISTURBANCE THAT IS UPGRADIENT AND CONTRIBUTES RUNOFF TO THE BASIN

EROSION PREVENTION MEASURES AND TIMING: THE CONTRACTOR IS RESPONSIBLE FOR ALL EROSION PREVENTION MEASURES FOR THE PROJECT.

FROSION PREVENTION MEASURES SHOWN ON PLANS ARE THE ABSOLUTE MINIMUM REQUIREMENTS. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL FROSION PREVENTION MEASURES AS NECESSARY TO PROPERLY MANAGE THE PROJECT AREA

THE CONTRACTOR SHALL PLAN AND IMPLEMENT APPROPRIATE CONSTRUCTION PRACTICES AND CONSTRUCTION PHASING TO MINIMIZE EROSION AND RETAIN VEGETATION WHENEVER POSSIBLE

THE CONTRACTOR SHALL DELINEATE AREAS NOT TO BE DISTURBED AND/OR TO BE PROTECTED WITH FLAGS, STAKES, SIGNS, SILT FENCE, OR OTHER MEANS NECESSARY TO PROTECT THESE AREAS BEFORE CONSTRUCTION BEGINS ON THE SITE.

THE CONTRACTOR SHALL STABILIZE OF ALL EXPOSED SOILS IMMEDIATELY TO LIMIT SOIL EROSION. IN NO CASE SHALL ANY EXPOSED AREAS, INCLUDING STOCK PILES, HAVE EXPOSED SOILS FOR MORE THAN 7 DAYS WITHOUT PROVIDING TEMPORARY OR

DRAINAGE PATHS. DITCHES, AND/OR SWALES SHALL HAVE TEMPORARY OR PERMANENT STABILIZATION WITHIN 24 HOLIRS OF CONNECTING TO A SURFACE WATER OR 24 HOURS AFTER CONSTRUCTION ACTIVITY IN THE DITCH/SWALE HAS TEMPORARILY OR

THE CONTRACTOR SHALL IMPLEMENT STORMWATER CONVEYANCE CHANNELS WHEN APPROPRIATE TO ROUTE WATER AROUND UNSTABILIZED AREAS ON SITE TO REDUCE EROSION

THE CONTRACTOR SHALL IMPLEMENT EROSION CONTROL BMPS AND VELOCITY DISSIPATION DEVICES ALONG CONSTRUCTED STORMWATER CONVEYANCE CHANNELS AND OUTLETS.

THE CONTRACTOR SHALL STABILIZE TEMPORARY AND/OR PERMANENT DRAINAGE DITCHES OR SWALES WITHIN 200 LINEAL FEET FROM PROPERTY EDGE. OR DISCHARGE POINT(S) WITHIN 24 HOURS AFTER CONNECTING TO A SURFACE WATER OR PROPERTY

TEMPORARY OR PERMANENT DITCHES OR SWALES USED AS A SEDIMENT CONTAINMENT SYSTEM DURING CONSTRUCTION MUST BE STABILIZED WITHIN 24 HOURS AFTER NO LONGER BEING USED AS A SEDIMENT CONTAINMENT SYSTEM.

THE CONTRACTOR SHALL NOT UTILIZE HYDROMULCH, TACKIFIER, POLYACRYLAMIDE OR SIMILIAR EROSION PREVENTION. PRACTICES AS A FORM OF STABILIZATION FOR TEMPORARY OR PERMANENT DRAINAGE DITCHES OR SWALES

THE CONTRACTOR SHALL ENSURE PIPE OUTLETS HAVE TEMPORARY OR PERMANENT ENERGY DISSIPATION WITH IN 24 HOURS OF CONNECTION TO A SURFACE WATER.

THE CONTRACTOR SHALL DIRECT DISCHARGES FROM BMPS TO VEGETATED AREAS TO INCREASE SEDIMENT REMOVAL AND MAXIMIZE STORMWATER INFILTRATION. VELOCITY DISSIPATION DEVICES MUST BE USED TO PREVENT EROSION WHEN DIRECTING STORMWATER TO VEGETATED AREAS.

# **DEWATERING AND BASIN DRAINING ACTIVITIES**

THE CONTRACTOR IS RESPONSIBLE FOR ADHERING TO ALL DEWATERING AND SURFACE DRAINAGE REGULATIONS. DISCHARGE DIRECTLY INTO A SURFACE WATER IS NOT ALLOWED WITHOUT PRETREATING PRIOR TO DISCHARGE

WATER FROM DEWATERING ACTIVITIES SHALL DISCHARGE TO A SEDIMENT CONTROL DESIGNED TO PREVENT DISCHARGES WITH

DISCHARGE THAT CONTAINS OIL OR GREASE MUST BE TREATED WITH AN OIL-WATER SEPARATOR OR SUITABLE FILTRATION DEVICE PRIOR TO DISCHARGE

DISCHARGE POINTS SHALL BE PROTECTED FROM EROSION AND SCOUR.

DISCHARGE WATER SHALL BE DISPERSED OVER AN ACCEPTED ENERGY DISSIPATION MEASURE.

WATER FROM DEWATERING SHALL BE DISCHARGED IN A MANNER THAN DOES NOT CAUSE NUISANCE CONDITIONS, EROSION, OR INUNDATION OF WETLANDS.

SEDIMENT CONTROL MEASURES AND TIMING:
THE CONTRACTOR IS RESPONSIBLE FOR ALL SEDIMENT CONTROL MEASURES FOR THE PROJECT.

SEDIMENT CONTROL MEASURES SHOWN ON PLANS ARE THE ABSOLUTE MINIMUM REQUIREMENTS. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL SEDIMENT CONTROL MEASURES AS NECESSARY TO PROPERLY MANAGE THE PROJECT AREA

THE CONTRACTOR SHALL ENSURE SEDIMENT CONTROL MEASURES ARE ESTABLISHED ON ALL DOWN GRADIENT PERIMETERS BEFORE ANY UPGRADIENT LAND DISTURBING ACTIVITIES BEGIN. THESE MEASURES SHALL REMAIN IN PLACE UNTIL FINAL STABILIZATION HAS

THE CONTRACTOR SHALL ENSURE THERE ARE NO LINBROKEN SLOPE LENGTHS GREATER THAN 75 FEET ON SLOPES 3:1 OR STEEPER

THE CONTRACTOR SHALL ENSURE SEDIMENT CONTROL PRACTICES REMOVED OR ADJUSTED FOR SHORT-TERM ACTIVITIES BE RE-INSTALLED IMMEDIATELY AFTER THE SHORT-TERM ACTIVITY HAS BEEN COMPLETED. SEDIMENT CONTROL PRACTICES MUST BE REINSTALLED BEFORE THE NEXT PRECIPITATION EVENT EVEN IF THE SHORT-TERM ACTIVITY IS NOT COMPLETE.

THE CONTRACTOR SHALL ENSURE STORM DRAIN INLETS AND CUI VERT INLETS ARE PROTECTED BY APPROPRIATE BMPS DURING CONSTRUCTION UNTIL ALL SOURCES WITH POTENTIAL FOR DISCHARGING TO THE INLET HAS BEEN STABILIZED. INLET AND CULVERT PROTECTION SHALL CONFORM TO THE 2020 MNDOT SPECIFICATIONS 2573

THE CONTRACTOR SHALL ENSURE STOCK PILES ARE PROVIDED WITH AN EFFECTIVE SEDIMENT PERIMETER CONTROL PRIOR TO THE INITIATION OF STOCKPILLING AND STOCK PILES SHALL NOT BE PLACED IN ANY TYPE OF SURFACE WATER OR NATURAL BUFFER

THE CONTRACTOR SHALL INSTALL PERIMETER CONTROL AROUND ALL STAGING AREAS, BORROW PITS, AND AREAS CONSIDERED ENVIRONMENTALLY SENSITIVE.

THE CONTRACTOR SHALL ENSURE VEHICLE TRACKING BE MINIMIZED WITH EFFECTIVE BMPS. WHERE THE BMPS FAIL TO PREVENT SEDIMENT FROM TRACKING ONTO STREETS THE CONTRACTOR SHALL CONDUCT STREET SWEEPING TO REMOVE ALL TRACKED

THE CONTRACTOR SHALL IMPLEMENT CONSTRUCTION PRACTICES TO MINIMIZE SOIL COMPACTION

# LONG TERM OPERATION AND MAINTENANCE

HE CITY WILL BE RESPONSIBLE FOR LONG-TERM OPERATION AND MAINTENANCE OF ALL PERMANENT BMPS ON THE PROJECT. FROSION PREVENTION BMP SUMMARY

SEE EROSION AND SEDIMENT CONTROL PLAN SHEETS AND BID FORM FOR TYPE, LOCATION, AND QUANTITY OF EROSION PREVENTION **BMPS** 

# SEDIMENT CONTROL BMP SUMMARY: SEE EROSION CONTROL PLANS AND BID FORM FOR TYPE, LOCATION, AND QUANTITY OF SEDIMENT CONTROL BMPS

INSPECTION AND MAINTENANCE

L INSPECTIONS. MAINTENANCE. REPAIRS, REPLACEMENTS, AND REMOVAL OF BMPS ARE INCIDENTAL TO THE EROSION CONTROL BID ITEMS

THE CONTRACTOR IS RESPONSIBLE FOR COMPLETING SITE INSPECTIONS. AND BMP MAINTENANCE TO ENSURE COMPLIANCE WITH THE PERMIT REQUIREMENTS.

THE CONTRACTOR SHALL INSPECT THE CONSTRUCTION SITE ONCE EVERY 7 DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN

THE CONTRACTOR SHALL DOCUMENT A WRITTEN SUMMARY OF ALL INSPECTIONS AND MAINTENANCE ACTIVITIES CONDUCTED WITHIN 24 HOURS OF OCCURRENCE. RECORDS OF EACH ACTIVITY SHALL INCLUDE THE FOLLOWING:

-DATE AND TIME OF INSPECTIONS

-NAME OF PERSON(S) CONDUCTING INSPECTION

-FINDINGS AND RECOMMENDATIONS FOR CORRECTIVE ACTIONS IF NECESSARY

-CORRECTIVE ACTIONS TAKEN

-DATE AND AMOUNT OF RAINFALL EVENTS

-POINTS OF DISCHARGE OBSERVED DURING INSPECTION AND DESCRIPTION OF THE DISCHARGE

-AMENDMENTS MADE TO THE SWPPP

-PHOTOGRAPHS OF ALL DEWATERING ACTIVITIES -DOCUMENTATION OF NUISANCE CONDITIONS

THE CONTRACTOR SHALL SUBMIT A COPY OF THE WRITTEN INSPECTIONS TO THE ENGINEER AND OWNER ON A MONTHLY BASIS. IF MONTHLY INSPECTION REPORTS ARE NOT SUBMITTED, MONTHLY PAYMENTS MAY BE HELD.

THE CONTRACTOR SHALL KEEP THE SWPPP, ALL INSPECTION REPORTS, AND AMENDMENTS ONSITE THE CONTRACTOR SHALL DESIGNATE A SPECIFIC ONSITE LOCATION TO KEEP THE RECORDS

THE CONTRACTOR IS RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF TEMPORARY AND PERMANENT WATER QUALITY BMP'S, AS WELL AS EROSION AND SEDIMENT CONTROL BMP'S

THE CONTRACTOR SHALL INSPECT EROSION PREVENTION AND SEDIMENTATION CONTROL BMPS TO ENSURE INTEGRITY AND EFFECTIVENESS. ALL NONFUNCTIONAL BMPS SHALL BE REPAIRED, REPLACED, OR SUPPLEMENTED WITH FUNCTIONAL BMPS WITHIN 24 HOURS OF FINDING. THE CONTRACTOR SHALL INVESTIGATE AND COMPLY WITH THE FOLLOWING INSPECTION AND MAINTENANCE REQUIREMENTS

PERIMETER CONTROL DEVICES, INCLUDING SILT FENCE, SHALL BE REPAIRED OR REPLACED WHEN THEY BECOME NONEUNCTIONAL OR THE SEDIMENT REACHES 1/3 OF THE DEVICE

TEMPORARY AND PERMANENT SEDIMENT BASINS SHALL BE DRAINED AND THE SEDIMENT REMOVED WHEN THE DEPTH OF SEDIMENT COLLECTED IN THE BASIN REACHES ½ THE STORAGE VOLUME. DRAINAGE AND REMOVAL MUST BE COMPLETED WITHIN 72 HOURS OF DISCOVERY.

SURFACE WATERS, INCLUDING DRAINAGE DITCHES AND CONVEYANCE SYSTEMS, MUST BE INSPECTED FOR EVIDENCE OF EROSION AND SEDIMENT DEPOSITION. THE CONTRACTOR SHALL REMOVE ALL DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS, INCLUDING DRAINAGEWAYS, CATCH BASINS, AND OTHER DRAINAGE SYSTEMS, THE CONTRACTOR SHALL RE-STABLIZE THE AREAS WHERE SEDIMENT REMOVAL RESULTS IN EXPOSED SOIL. REMOVAL AND STABILIZATION MUST TAKE PLACE WITHIN 7 DAYS OF DISCOVERY, UNLESS PRECLUDED BY LEGAL, REGULATORY, OR PHYSICAL CONSTRAINTS. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL LOCAL, REGIONAL, STATE AND FEDERAL AUTHORITIES AND OBTAIN ANY APPLICABLE PERMITS. PRIOR TO CONDUCTING ANY WORK IN SURFACE WATERS.

CONSTRUCTION SITE VEHICLE EXIT LOCATIONS SHALL BE INSPECTED DAILY FOR EVIDENCE OF SEDIMENT TRACKING ONTO PAVED SURFACES. TRACKED SEDIMENT MUST BE REMOVED FROM ALL PAVED SURFACES WITHIN 24 HOURS OF DISCOVERY.

IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT MUST BE REMOVED IN A MANOR AND AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE

POLLUTION PREVENTION MANAGEMENT MEASURES:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POLLUTION PREVENTION MANAGEMENT MEASURES.

ALL POLLUTION PREVENTION MEASURES ARE CONSIDERED INCIDENTAL TO THE MOBILIZATION BID ITEM, UNLESS OTHERWISE NOTED.

THE CONTRACTOR IS RESPONSIBLE FOR INFORMING ALL VISITORS AND/OR PERSONNEL ON-SITE OF THE POLLUTION PREVENTION MANAGEMENT MEASURES

THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER DISPOSAL, IN COMPLIANCE WITH MPCA DISPOSAL REQUIREMENTS, OF ALL HAZARDOUS MATERIALS, SOLID WASTE, AND PRODUCTS ON-SITE

THE CONTRACTOR SHALL ENSURE CONSTRUCTION MATERIALS THAT HAVE THE POTENTIAL TO LEACH POLLUTANTS ARE KEPT UNDER COVER TO PREVENT THE DISCHARGE OF **POLLUTANTS** 

THE CONTRACTOR SHALL ENSURE PESTICIDES, HERBICIDES, INSECTICIDES, FERTILIZERS, TREATMENT CHEMICALS, AND LANDSCAPE MATERIALS ARE COVERED TO PREVENT THE

THE CONTRACTOR SHALL ENSURE HAZARDOUS MATERIALS AND TOXIC WASTE IS PROPERLY STORED IN SEALED CONTAINERS TO PREVENT SPILLS, LEAKS, OR OTHER DISCHARGE. STORAGE AND DISPOSAL OF HAZARDOUS WASTE OR HAZARDOUS MATERIALS MUST BE IN COMPLIANCE WITH MINN. R. CH. 7045 INCLUDING SECONDARY CONTAINMENT AS

THE CONTRACTOR SHALL ENSURE ASPHALT SUBSTANCES USED ON-SITE ARE APPLIED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS

THE CONTRACTOR SHALL ENSURE PAINT CONTAINERS AND CURING COMPOUNDS BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT AND/OR CURING COMPOUNDS SHALL NOT BE DISCHARGED INTO THE STORM SEWER SYSTEM AND SHALL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURE'S INSTRUCTION.

THE CONTRACTOR SHALL ENSURE SOLID WASTE BE STORED, COLLECTED AND DISPOSED OF PROPERLY IN COMPLIANCE WITH MINN. R. CH. 7035

THE CONTRACTOR SHALL ENSURE PORTABLE TOILETS ARE POSITIONED SO THAT THEY ARE SECURE AND WILL NOT BE TIPPED OR KNOCKED OVER. SANITARY WASTE MUST BE DISPOSED OF PROPERLY IN ACCORDANCE WITH MINN, R. CH. 7041.

THE CONTRACTOR SHALL MONITOR ALL VEHICLES ON-SITE FOR LEAKS AND RECEIVE REGULAR PREVENTION MAINTENANCE TO REDUCE THE CHANCE OF LEEKAGE

EXTERNAL WASHING OF TRUCKS AND OTHER CONSTRUCTION VEHICLES AND ENGINE DEGREASING ARE PROHIBITED AT THE CONSTRUCTION SITE.

THE CONTRACTOR SHALL ENSURE NO WASHOUT WASTE CONTACTS THE GROUND AND BE PROPERLY DISPOSED OF IN COMPLIANCE WITH MPCA RULES

THE CONTRACTOR SHALL INCLUDE SPILL KITS WITH ALL FUELING SOURCES AND MAINTENANCE ACTIVITIES. SECONDARY CONTAINMENT MEASURES SHALL BE INSTALLED AND

THE CONTRACTOR SHALL ENSURE SPILLS ARE CONTAINED AND CLEANED UP IMMEDIATELY UPON DISCOVERY. SPILLS LARGE ENOUGH TO REACH THE STORM WATER CONVEYANCE SYSTEM SHALL BE REPORTED TO THE MINNESOTA DUTY OFFICER AT 1,800,422,0798

THE CONTRACTOR IS RESPONSIBLE FOR ENSURING FINAL STABILIZATION OF THE ENTIRE SITE, FINAL STABILIZATION INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:

ALL SOIL DISTURBING ACTIVITIES HAVE BEEN COMPLETED.

ALL EXPOSED SOILS HAVE BEEN UNIFORMLY STABILIZED WITH AT LEAST 70% VEGETATION COVERAGE.

ALL DRAINAGE DITCHES, BASINS, AND ALL STORM WATER CONVEYANCE SYSTEMS HAVE BEEN CLEARED OF SEDIMENT AND STABILIZED WITH PERMANENT COVER

ALL TEMPORARY BMPS HAVE BEEN REMOVED AND PROPERLY DISPOSED OF

FINAL STABILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH MNDOT 2020 SPECIFICATION 2575

Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively

THE STATE OF MINNES

TYPED NAME: DANIEL LANDRUS LIC. NO. 54263

ROJE COVE WOODLAND INNETRISTA

REPARED BY: I W

CKED BY: DL

APPROVED BY: DL

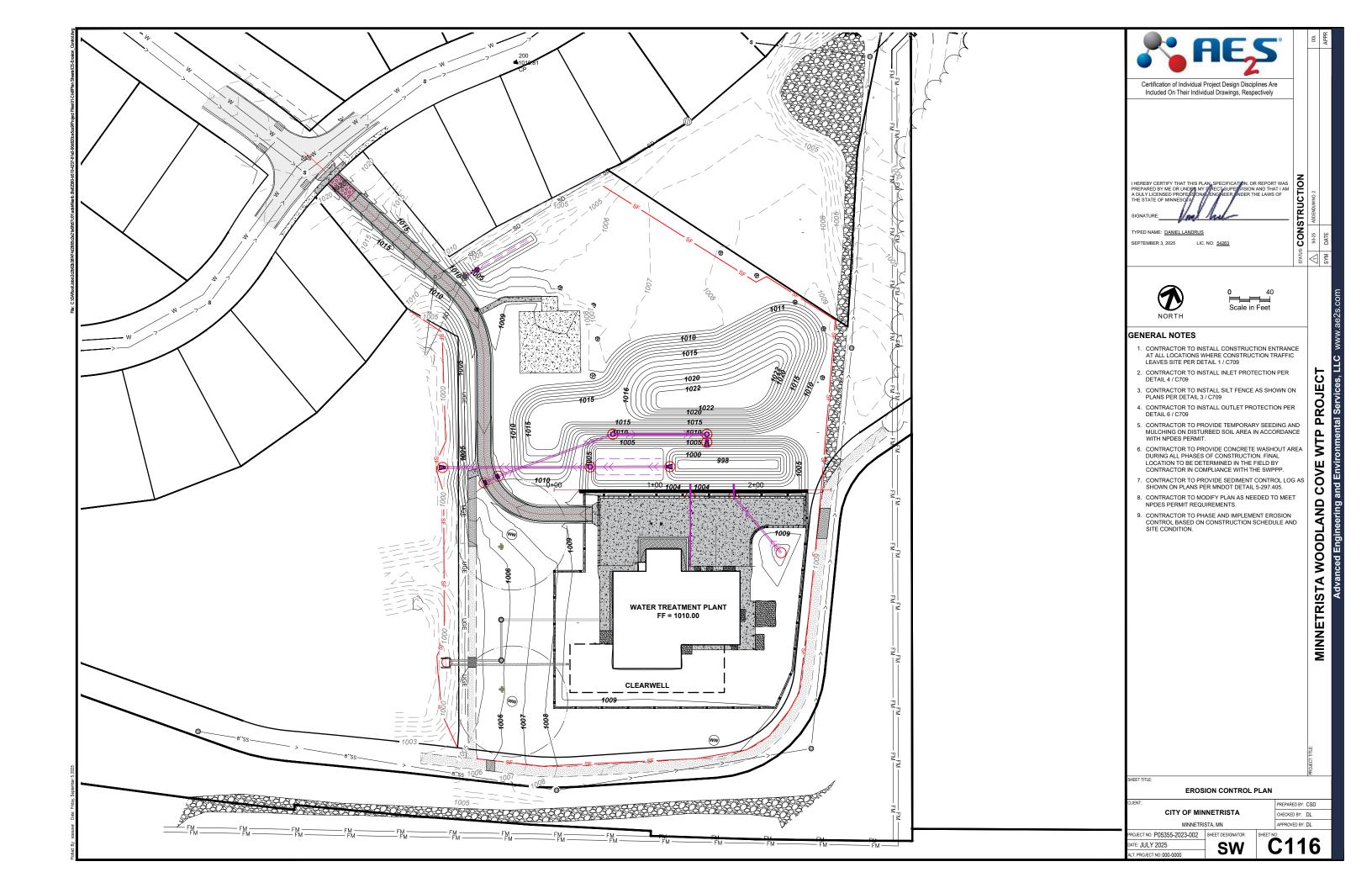
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SWPPF

CITY OF MINNETRISTA

TE: JULY 2025

MINNETRISTA MN DJECT NO: P05355-2023-002 SHEET DESIGNATOR:



STORM SUMMARY- SEE SHEET C215									
STRUCTURE NAME	STATION	RIM ELEVATION	PIPES IN	PIPES OUT	NORTHING	EASTING			
CBCI-1	100+15	1007.52		15" RCP INV NE = 1004.00	137151.56	420929.25			
CBCI-2	100+31	1007.81	15" RCP INV SW = 1003.94	15" RCP INV NE = 1003.94	137160.74	420941.53			
SDMH-1	101+52	1009.00	15" RCP INV SW = 1003.46	15" RCP INV E = 1003.46	137223.27	421045.12			
SDMH-2	102+45	1009.00	15" RCP INV W = 1003.08	15" RCP INV S = 1003.08	137241.10	421136.64			
FES-1	102+57	1004.55	15" RCP INV N = 1003.03		137229.31	421138.87			

STORM SEWER			
LOCATION	SIZE	LENGTH	SLOPE
CBCI-1 TO CBCI-2	15" RCP	15.33 LF	0.40%
CBCI-2 TO SDMH-1	15" RCP	121.00 LF	0.40%
SDMH-1 TO SDMH-2	15" RCP	93.25 LF	0.40%
SDMH-2 TO FES-1	15" RCP	12.00 LF	0.40%

STORM SUMMAR	STORM SUMMARY- SEE SHEET C216								
STRUCTURE NAME	STATION	RIM ELEVATION	PIPES IN	PIPES OUT	NORTHING	EASTING			
SDCB-1	115+00	1007.50		15" RCP INV NW = 1004.00	137139.87	421231.26			
CBCI-3	115+73	1007.85	15" RCP INV SE = 1003.15	15" RCP INV N = 1003.05	137185.50	421174.59			
FES-5	115+86	1004.52	15" RCP INV S = 1003.00		137198.11	421172.14			

STORM SEWER PIPE							
LOCATION	SIZE	LENGTH	SLOPE				
CBCI-3 TO FES-5	15" RCP	12.85 LF	0.39%				
SDCB-1 TO CBCI-3	15" RCP	72.76 LF	1.17%				

STORM SUMMARY- SEE SHEET C217								
STRUCTURE NAME	STATION	RIM ELEVATION	PIPES IN	PIPES OUT	NORTHING	EASTING		
SDCB-4	0+73	1008.09	8" PVC SDR26 INV S = 1003.35	15" RCP INV N = 1003.25	137176.67	421132.51		

STORM SEWER PIPE							
LOCATION	SIZE	LENGTH	SLOPE				
BLDG_CONN TO SDCB-4	8" PVC SDR26	68.38 LF	2.63%				
SDCB-4 TO FES-4	15" RCP	13.48 LF	1.85%				

STORM SUMMARY- SEE SHEET C218									
STRUCTURE NAME	STATION	RIM ELEVATION	PIPES IN	PIPES OUT	NORTHING	EASTING			
FES-2	0+04	1000.99		15" RCP INV E = 999.20	137158.04	420882.59			
SDMH-3	101+19	1004.54	15" RCP INV W = 1000.00	15" RCP INV E = 1000.00 6" PERFORATED PIPE INV SE = 1000.00 6" PERFORATED PIPE INV NE = 1000.00	137187.15	421029.26			
FES-3	102+11	1001.52	15" RCP INV W = 1000.00		137203.00	421109.20			

STORM SEWER PIPE							
LOCATION	SIZE	LENGTH	SLOPE				
FES-2 TO SDMH-3	15" RCP	149.53 LF	-0.54%				
SDMH-3 TO FES-3	15" RCP	81.50 LF	0.00%				

SANITARY SUMMAR'SHEET C213								
STRUCTURE NAME	STATION	RIM ELEVATION	PIPES IN	PIPES OUT	NORTHING	EASTING		
SSMH-2	2+92	1009.22	8" INV W = 999.50		137178.48	421277.14		

SANITARY SEWER PIPE						
LOCATION	SIZE	LENGTH	SLOPE			
TO WYE-2	4"	7.76 LF	3.00%			
SSMH-1 TO SSMH-2	8"	117.26 LF	2.00%			

SANITARY SUMMARY - SEE SHEET C214						
STRUCTURE NAME	STATION	RIM ELEVATION	PIPES IN	PIPES OUT	NORTHING	EASTING
WYE-1	0+31	1009.29	4" INV SW = 1003.61 8" INV S = 1003.61	8" INV N = 1003.61	137133.52	421166.44
SAN_CONN_2	1+60	1004.73		4" INV N = 1004.36	137111.55	421155.85

SANITARY SEWER PIPE								
LOCATION	SIZE	LENGTH	SLOPE					
45° BEND-1 TO WYE-1	4"	20.59 LF	2.94%					
SAN_CONN_2 TO 45° BEND-1	4"	5.00 LF	2.94%					

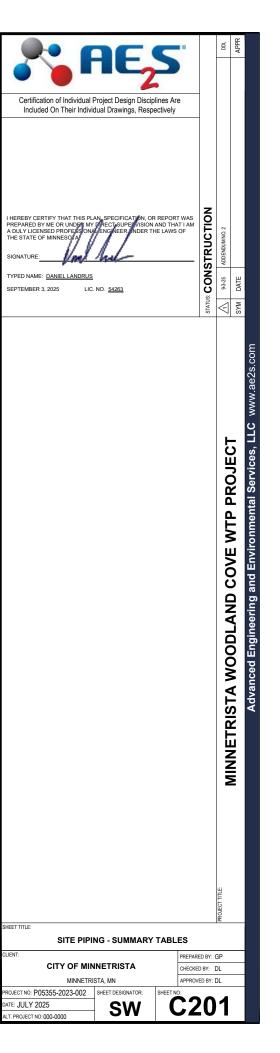
SANITARY SEWER PIPE					
LOCATION SIZE LENGTH SLOPE					
SAN_CONN_3 TO WYE-1	8"	19.53 LF	3.42%		
WYE-1 TO SSMH-1	8"	22.96 LF	3.17%		

OVERFLOW SUMMARY - SEE SHEET C211							
STRUCTURE NAME	STATION	RIM ELEVATION	PIPES IN	PIPES OUT	NORTHING	EASTING	
OUTFALL-2	120+11	1003.16		20" PVC C900 INV E = 1001.00	136972.11	420928.75	
OVFLW-1	121+03	1005.67	20" PVC C900 INV S = 1002.59	20" PVC C900 INV E = 1002.59	137021.68	420971.66	
CPLG-2	122+09	1008.31	20" PVC C900 INV W = 1005.25	20" PVC PS115 INV E = 1005.25	137041.90	421075.46	
BLDG-CONN-2	122+14	1007.41	20" PVC PS115 INV W = 1005.25		137042.85	421080.36	

OVERFLOW PIPE						
LOCATION	SIZE	LENGTH	SLOPE	BEARING		
OUTFALL-2 TO OVFLW-2	20" PVC C900	51.73 LF	-1.00%	N78° 44' 55"E		
OVFLW-1 TO CPLG-2	20" PVC C900	105.75 LF	-2.51%	N78° 58' 36"E		
OVFLW-2 TO OVFLW-1	20" PVC C900	40.24 LF	-2.51%	N11° 13' 39"W		

OVERFLOW SUMMARY - SEE SHEET C212							
STRUCTURE NAME	STATION	RIM ELEVATION	PIPES IN	PIPES OUT	NORTHING	EASTING	
OUTFALL-1	130+13	1002.78		20" PVC C900 INV E = 1001.00	136968.09	420929.62	
CPLG-1	131+28	1005.94	20" PVC C900 INV W = 1002.18	20" PVC C900 INV E = 1002.18	136990.46	421042.09	
BLDG_CONN-1	131+33	1003.96	20" PVC C900 INV W = 1002.18		136991.44	421047.00	

OVERFLOW PIPE								
LOCATION	SIZE	LENGTH	SLOPE	BEARING				
OUTFALL-1 TO CPLG-1	20" PVC C900	114.68 LF	-1.03%	N78° 45' 02"E				



y: acesuser Date: Friday, September 5, 2025

DISTRIBUTION SUMMARY - SEE SHEET C204						
LOCATION	SIZE	LENGTH	SLOPE			
261+63.27 TO 261+65.93	20" PVC C900	2.67	0.75%			
261+67.60 TO 261+70.97	16" PVC C900	3.37	0.00%			
261+57.64 TO 261+60.27	20" PVC C900	2.63	-0.00%			
262+37.80 TO 263+38.19	16" PVC C900	100.39	0.00%			
260+10.86 TO 261+55.90	20" PVC C900	145.03	-0.03%			

FITTINGS			
FITTING	STATION	NORTHING	EASTING
20" MJ PLUG	260+10.86	136852.4932	420993.9189
20" DI TEE	261+61.77	137000.6106	420965.0652
20" x 16" DI RED	261+66.77	137005.5183	420964.1092
16" x 6" TEE	262+37.56	137075.0091	420950.5722

APPURTENANCE					
DESCRIPTION STATION					
16" BFV	261+71.77				
20" BFV 261+56.77					

DISTRIBUTION SUMMARY - SEE SHEET C205					
LOCATION SIZE LENGTH SLOPE					
261+62.19 TO 261+61.77	20" DI	88.09	-0.16%		

FITTINGS						
FITTING	STATION	NORTHING	EASTING			
20" 45° BEND	250+90.38	137018.3179	421053.6974			
20" 45° BEND	250+96.94	137016.5604	421060.0167			

DISTRIBUTION SUMMARY - SEE SHEET C206						
LOCATION	SIZE	LENGTH	SLOPE			
270+01.25 TO 270+98.79	6" PVC C900	97.54	-1.67%			
270+99.67 TO 271+04.23	6" PVC C900	4.56	0.00%			

APPURTENANCE				
DESCRIPTION STATION				
FIRE HYD	271+04.23			
6" GV	270+99.23			

IRRIGATION PIPE SUMMARY		
PIPE	LENGTH	
4" PVC IRRIGATION CARRIER	48.23	
4" PVC IRRIGATION CARRIER	25.67	

RAW WATER SUMMARY - SEE SHEET C207				
LOCATION	SIZE	LENGTH	SLOPE	
200+11.25 TO 200+00.00	8" DI	11.25	0.00%	
200+12.00 TO 200+12.00	6" PVC C900	4.56	6.30%	
200+12.00 TO 200+12.00	6" PVC C900	3.78	-7.61%	
200+53.55 TO 200+12.75	8" DI	40.80	0.00%	
200+60.03 TO 200+54.46	8" DI	5.57	0.00%	
201+26.20 TO 200+60.95	8" DI	65.25	0.00%	

FITTINGS			
FITTING	STATION	NORTHING	EASTING
8" x 6" TEE	200+12.00	136956.0744	420995.4533
8" 45° BEND	200+54.01	136997.3135	420987.4411
8" 45° BEND	200+60.49	137002.6901	420991.0645
8" 22.5° BEND	201+26.66	137015.3426	421056.0147
8" 22.5° BEND	201+31.24	137018.0164	421059.7331

APPURTENANCE		
DESCRIPTION	STATION	
6" GV	200+12.00	

RAW WATER SUMMARY - SEE SHEET C208				
LOCATION	SIZE	LENGTH	SLOPE	
210+11.00 TO 210+00.00	12" DI	11.00	0.00%	
210+12.00 TO 210+12.00	6" PVC C900	4.56	0.00%	
210+12.00 TO 210+12.00	6" PVC C900	3.56	-64.28%	
210+93.68 TO 210+11.00	12" DI	82.68	2.42%	
211+02.97 TO 210+94.93	12" DI	8.04	0.00%	
211+67.60 TO 211+04.22	12" DI	63.37	0.00%	

FITTINGS			
FITTING	STATION	NORTHING	EASTING
12" x 6" TEE	210+12.00	137094.6768	420967.8960
12" 45° BEND	210+94.30	137013.9476	420983.9211
12" 45° BEND	211+03.60	137008.7533	420991.6283
12" 22.5° BEND	211+67.60	137020.9904	421054.4474
12" 22.5° BEND	211+72.60	137019.9958	421059.3475

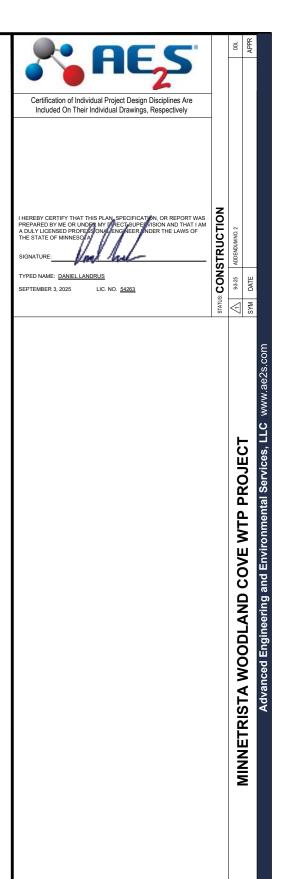
APPURTENANCE		
DESCRIPTION	STATION	
6" GV	210+12.00	

RAW WATER SUMMARY - SEE SHEET C209				
LOCATION	SIZE	LENGTH	SLOPE	
0+10.10 TO 0+30.82	8" DI	20.71	0.00%	
0+31.73 TO 0+42.74	8" DI	11.01	0.00%	
0+43.66 TO 1+20.22	8" DI	76.56	0.00%	
1+21.14 TO 1+76.79	8" DI	55.65	-12.54%	
1+77.71 TO 3+69.69	8" DI	191.98	0.00%	
3+70.61 TO 3+76.76	8" DI	6.15	0.00%	
3+77.68 TO 5+00.00	8" DI	122.32	0.00%	

;		
STATION	NORTHING	EASTING
0+10.00	137023.8200	421078.9785
0+31.28	137019.7518	421058.0948
0+43.20	137026.4165	421048.2054
1+20.68	137102.4677	421033.3904
1+77.25	137149.3781	421065.0040
3+70.15	137186.2619	421254.3435
3+77.22	137192.1257	421258.2952
	STATION 0+10.00 0+31.28 0+43.20 1+20.68 1+77.25 3+70.15	STATION         NORTHING           0+10.00         137023.8200           0+31.28         137019.7518           0+43.20         137026.4165           1+20.68         137102.4677           1+77.25         137149.3781           3+70.15         137186.2619

RAW WATER SUMMARY - SEE SHEET C210			
LOCATION	SIZE	LENGTH	SLOPE
5+00.21 TO 5+72.91	8" DI	72.70	0.00%
5+73.83 TO 6+62.84	8" DI	89.01	0.00%

FITTINGS			
FITTING	STATION	NORTHING	EASTING
8" 11.25° BEND	5+73.37	137384.6569	421220.7896



CITY OF MINNETRISTA

MINNETRISTA, MN

SITE PIPING - SUMMARY TABLES

PREPARED BY: GP CHECKED BY: DL APPROVED BY: DL

ROJECT NO: P05355-2023-002 SHEET DESIGNATOR: SW DATE: JULY 2025 ALT. PROJECT NO: 000-0000