

Plotted by: Stubby Reynolds Date: Monday, September 8, 2025 File: \\aes2.com\minnetrista\woodland\05355-2023\02CAD\Drawings\02-General\Plan_Sheet\Drawing Index.dwg

FACILITY DESIGNATOR	SHEET NUMBER	SHEET TITLE
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GEN	C003	CIVIL CONSTRUCTION NOTES
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SW	C210	SITE PIPING - PLAN & PROFILE - 20IN OVERFLOW
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SW	C212	SITE PIPING - PLAN & PROFILE - SANITARY
SW	C213	SITE PIPING - PLAN & PROFILE - SANITARY
SW	C214	SITE PIPING - PLAN & PROFILE - STORM SEWER
SW	C215	SITE PIPING - PLAN & PROFILE - STORM SEWER
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SW	C218	SITE PIPING - PLAN & PROFILE - STORM SEWER
SW	C219	SITE PIPING - CONNECTION DETAILS
SW	L101	LANDSCAPE PLAN
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WTP	S101	FOUNDATION PLAN -WTP
WTP	S102	FOUNDATION PLAN - CLEARWELL
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WTP	S110	MAIN LEVEL PLAN -OVERALL
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WTP	S112	MAIN LEVEL - ENLARGED FILTER
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WTP	S120	UPPER LEVEL / LOW ROOF PLAN -OVERALL
WTP	S131	HIGH ROOF AND CANOPY PLAN
WTP	S301	BUILDING SECTIONS
WTP	S302	BUILDING SECTIONS
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WTP	S601	CONCRETE SCHEDULES AND DETAILS
WTP	S602	CONCRETE SCHEDULES AND DETAILS
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WTP	A101	FIRST FLOOR PLAN
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WTP	A104	LOWER LEVEL REFLECTED CEILING PLAN
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WTP	A501	WALL DETAILS
WTP	A502	OVERHANG AND BUMP OUT DETAILS

FACILITY DESIGNATOR	SHEET NUMBER	SHEET TITLE
WTP	A503	STAIR PLANS, SECTIONS AND DETAILS
WTP	A503.1	BUMP OUT DETAILS - ALTERNATE 2
WTP	A504	STAIR PLANS, SECTIONS AND DETAILS
WTP	A505	STAIR PLANS, SECTIONS AND DETAILS
WTP	A601	DOOR SCHEDULE, DOOR AND WINDOW ELEVATIONS
WTP	A602	FINISH SCHEDULE
WTP	P100	MASTER PROCESS IMPROVEMENTS
WTP	P101	SUBGRADE LEVEL - OVERALL PLAN
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WTP	P107	SUBGRADE LEVEL - ENLARGED PLAN - CLEARWELL PUMPING CHAMBER
WTP	P108	SUBGRADE LEVEL - ENLARGED PLAN - PIPE GALLERY
WTP	P109	SUBGRADE LEVEL - ENLARGED PLAN - SLUDGE TRANSFER PIPING
WTP	P110	MAIN LEVEL - ENLARGED PLAN - FILTER EFFLUENT PIPING
WTP	P111	MAIN LEVEL - ENLARGED PLAN - BACKWASH WASTE PIPING
WTP	P112	MAIN LEVEL - ENLARGED PLAN - RAW WATER PIPING
WTP	P113	MAIN LEVEL - ENLARGED PLAN - DETENTION TANK AND PIPE GALLERY
WTP	P114	MAIN LEVEL - ENLARGED PLAN - HIGH SERVICE PUMPS
WTP	P115	MAIN LEVEL - ENLARGED PLAN - CHEMICAL ROOMS
WTP	P116	UPPER LEVEL - ENLARGED PLAN - AERATOR AND BLOWER
WTP	P301	SECTIONS - CLEARWELL No. 1
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WTP	P304	SECTION - HIGH SERVICE PUMPS
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WTP	P307	SECTION - FILTER EFFLUENT PIPING
WTP	P308	SECTION - FILTER GALLERY - LOOKING WEST
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WTP	P312	SECTION - FILTER AND RECLAIM TANK
WTP	P313	SECTION - AERATOR AND SLUDGE TRANSFER PIPING
WTP	P314	SECTION - SLUDGE TRANSFER PUMPS
WTP	P315	SECTION - AERATOR AND BLOWER PIPING
WTP	P316	SECTION - BLOWER AND SLUDGE PIPING
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WTP	P323	SECTIONS - OVERFLOWS
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WTP	M103	UPPER LEVEL - PLUMBING PLAN
WTP	M104	ROOF - PLUMBING PLAN
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WTP	M650	MECHANICAL SECTIONS
WTP	M800	PLUMBING SCHEDULES
WTP	M801	MECHANICAL SCHEDULES
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WTP	M803	MECHANICAL SCHEDULES
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WTP	E102	GRADE LEVEL - OVERALL ELECTRICAL PLAN
WTP	E103	UPPER LEVEL - OVERALL ELECTRICAL PLAN
WTP	E104	LOWER LEVEL - ENLARGED PROCESS ELECTRICAL PLAN
WTP	E105	LOWER LEVEL - ENLARGED LGPM PLAN
WTP	E106	LOWER LEVEL - ENLARGED SYSTEMS PLAN
WTP	E107	GRADE LEVEL - ENLARGED PROCESS ELECTRICAL PLAN 1
WTP	E108	GRADE LEVEL - ENLARGED PROCESS ELECTRICAL PLAN 2
WTP	E109	GRADE LEVEL - ENLARGED PROCESS ELECTRICAL PLAN 3
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WTP	E113	GRADE LEVEL - ENLARGED LGPM PLAN 3
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WTP	E601	NETWORK RACK LAYOUT
WTP	E602	NETWORK SWITCH SCHEDULE
WTP	E603	CONTROL PANEL LAYOUT
WTP	E604	CONTROL PANEL IO SCHEDULE
WTP	E605	CONTROL PANEL IO SCHEDULE
WTP	E606	CONTROL PANEL IO SCHEDULE
WTP	E607	CONTROL PANEL IO SCHEDULE
WTP	E608	FILTER CONTROL PANEL LAYOUT
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WTP	E612	GATE ACCESS CONTROL PANEL LAYOUT
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WTP	E614	SWBD1 ONE-LINE DIAGRAM
WTP	E615	MCC1 ONE-LINE DIAGRAM
WTP	E616	MCC1 ONE-LINE DIAGRAM
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WTP	E618	MCC2 ONE-LINE DIAGRAM
WTP	E619	LIGHTING FIXTURE SCHEDULE
WTP	E620	MECHANICAL EQUIPMENT SCHEDULE
WTP	E621	MECHANICAL EQUIPMENT SCHEDULE
WTP	E622	VARIOUS PANEL SCHEDULES

FACILITY DESIGNATOR	SHEET NUMBER	SHEET TITLE
WTP	E623	VARIOUS PANEL SCHEDULES
WTP	E624	INSTRUMENTATION SCHEDULE
SD	C701	CIVIL STANDARD DETAILS
SD	C702	CIVIL STANDARD DETAILS
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
SD	C709	CIVIL STANDARD DETAILS
SD	C710	CIVIL STANDARD DETAILS
SD	S201	STANDARD DETAILS
SD	S702	STANDARD DETAILS
SD	S901	WINDOW FRAME PLAN, ELEVATION, & ISOMETRIC VIEWS
SD	P700	SECTION - PITLESS WELL
SD	P701	PROCESS STANDARD DETAILS - CHEMICALS
SD	P702	PROCESS STANDARD DETAILS - CHEMICALS
SD	P703	PROCESS STANDARD DETAILS - EQUIPMENT
SD	P704	PROCESS STANDARD DETAILS - PIPE PENETRATIONS
SD	P705	PROCESS STANDARD DETAILS - PIPE PENETRATIONS
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
SD	P711	PROCESS STANDARD DETAILS - SAMPLE PORTS AND EQUIPMENT
SD	P712	PROCESS STANDARD DETAILS - PIPING AND GAUGES
SD	P713	PROCESS STANDARD DETAILS - AIR VALVES AND VALVE STEMS
SD	M610	PLUMBING DETAILS
SD	M620	PLUMBING DETAILS
SD	M640	MECHANICAL DETAILS
SD	E601	VARIOUS WIRING SCHEMATICS
SD	E602	VARIOUS WIRING SCHEMATICS
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



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

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.

SIGNATURE:

TYPED NAME: AARON S. VOLLMER

JUNE 30, 2025

REG. NO. 51398

ASV	APPR
1	9-2-25
DATE	DATE

STATUS: CONSTRUCTION

ADDENDUM No. 2

DESCRIPTION

MINNETRISTA WOODLAND COVE WTP PROJECT

Advanced Engineering and Environmental Services, LLC www.ae2s.com

PROJECT TITLE

SHEET TITLE:

DRAWING INDEX

CLIENT:

CITY OF MINNETRISTA
MINNETRISTA, MINNESOTA

PREPARED BY: SGR

CHECKED BY: RM

APPROVED BY: ASV

PROJECT NO: 05355-2023-002

SHEET DESIGNATOR:

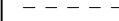
SHEET NO:

DATE: JULY 2025

ALT. PROJECT NO: 00000-0000

GEN

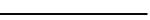
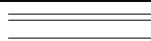
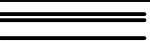
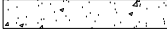
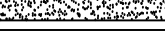
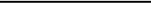
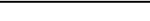
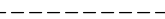
G002

WATER		
DESCRIPTION	EXISTING	NEW
PIPE		
WATER MAIN		
WATER SERVICE		
RAW WATER MAIN		
STRUCTURES		
MANHOLE		
METER MANHOLE		
ARV MANHOLE		
WELL		
MONITORING WELL		
PRV MANHOLE		
WATER HANDHOLE		
VAULT		
VALVES		
CURBSTOP		
GATE		
BUTTERFLY		
PLUG		
CHECK		
BALL		
HYDRANTS		
FIRE		
ARV		
BLOW OFF		
FITTINGS		
11.25° BEND		
22.50° BEND		
30° BEND		
45° BEND		
60° BEND		
90° BEND		
WYE (R)		
WYE (L)		
CAP		
COUPLING		
CROSS		
PLUG		
REDUCER		
TEE		
SADDLE TAP		

SANITARY		
DESCRIPTION	EXISTING	NEW
PIPE		
SANITARY GRAVITY	———— SS ————	
SANITARY FORCEMAIN	———— FM ————	
STRUCTURES		
MANHOLE		
CLEAN OUT		
METER MANHOLE		
SEPTIC TANK		
VAULT		
LIFTSTATION		
VALVES		
GATE		
BUTTERFLY		
PLUG		
FITTINGS		
WYE (R)		
WYE (L)		
PLUG		
CAP		

STORM		
DESCRIPTION	EXISTING	NEW
PIPE		
STORM MAIN	———— SD ————	
DRAIN TILE	- - - - -	
OVERFLOW		
STRUCTURES		
MANHOLE		
OVERFLOW MANHOLE		
AREA INLET		
BEEHIVE INLET		
CURB INLET		
CLEANOUT		
OUTFALL		

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

SITE		
DESCRIPTION	EXISTING	NEW
VEGETATION		
CONIFEROUS TREE (LARGE)		
CONIFEROUS TREE (SMALL)		
DECIDUOUS TREE (LARGE)		
DECIDUOUS TREE (SMALL)		
SHRUB		
STUMP		
TREE LINE		
SIGNAGE		
STREET SIGN		
MILE POST		
SITE		
BUILDING		
CURB		
CONCRETE		
BITUMINOUS PAVEMENT		
STRUCTURAL CONCRETE		
GRAVEL		
FENCES		
BARBED WIRE		
CHAIN LINK		
WOOD		
VINYL		
WOVEN WIRE		
GUARD RAIL		
SILT		
SUPER SILT		
GATE POST		
TOPOLOGY		
CONTOURS		
BOUNDARY		
PROPERTY LINE		
EASEMENT		
CONSTRUCTION EASEMENT		
EROSION CONTROL		
DESCRIPTION	EXISTING	NEW
LINES		
SILT FENCE		
INLET / OUTLET PROTECTION		
AREA		
EROSION CONTROL BLANKET		
CONSTRUCTION ENTRANCE		

ELECTRICAL		
DESCRIPTION	EXISTING	NEW
LINES		
ELECTRIC		
OVERHEAD		
UNDERGROUND		
STRUCTURES		
MANHOLE		
HANDHOLE		
UTILITY POLE		
GUY ANCHOR		
LIGHT POST		
PUSH TO WALK POST		
STREET LIGHT		
SIGNAL		
SIGNAL WITH ARM		

COMMUNICATIONS		
DESCRIPTION	EXISTING	NEW
LINES		
COMMUNICATIONS		
FIBER OPTIC		
TELEPHONE		
CABLE TV		
CLOSED CIRCUIT TV		
STRUCTURES		
MANHOLE		
TELEPHONE MANHOLE		
TELEPHONE PEDESTAL		
TELEPHONE FIBER OPTIC PEDESTAL		
TELEVISION PEDESTAL		
UNKNOWN PEDESTAL		

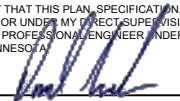
DEMOLITION		
DESCRIPTION	EXISTING	NEW
LINES		
FEATURES TO BE REMOVED		
FEATURES TO BE ABANDONED		
REMOVE CURB & GUTTER		
CONSTRUCTION LIMITS		
STRUCTURES		
REMOVE TREE OR SHRUB		
AREA		
ITEMS TO BE REMOVED		
CLEARING AND GRUBBING		

		Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively		STATUS: CONSTRUCTION		DDL: _____ APPR: _____	
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.		ADDENDUM NO. 2 9-325		DATE: _____ SYM: _____		MINNETRISTA WOODLAND COVE WTP PROJECT PROJECT TITLE: _____	
SIGNATURE: _____		TYPED NAME: <u>DANIEL LANDRUS</u>		SEPTEMBER 3, 2025 LIC. NO. <u>54263</u>			
GENERAL NOTES 1. THIS LEGEND SHEET IS FOR VISUAL REFERENCE OF THE SYMBOLS AND LINETYPES USED ON THIS PROJECT. SOME OF THE SYMBOLS AND LINETYPES MAY NOT BE USED BY THIS PARTICULAR PROJECT.							
SHEET TITLE: CIVIL LEGEND CLIENT: CITY OF MINNETRISTA MINNETRISTA, MN PREPARED BY: CSD CHECKED BY: DL APPROVED BY: DL PROJECT NO: P05355-2023-002 DATE: JULY 2025 ALT. PROJECT NO: 000-0000 SHEET DESIGNATOR: GEN SHEET NO: C001							

Advanced Engineering and Environmental Services, LLC www.ae2s.com

Printed By: jessica Date: Friday, September 5, 2025
File: C:\Users\jessica\OneDrive\Documents\Projects\Woodland Cove\Drawings\Sheet01.dwg
Sheet: 01 of 10

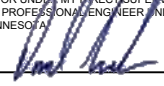
10.5.		AS NEEDED, PROVIDE CONTINUOUS TEMPORARY WALKWAY SURFACES THAT ARE SMOOTH, STABLE AND SLIP RESISTANT IN RELEVANT WEATHER CONDITIONS.	11.8.		THE CONTRACTOR SHALL NOTIFY THE ENGINEER 7 DAYS PRIOR TO THE START OF CONSTRUCTION, AND BEFORE ANY SUBSTANTIAL TRAFFIC CONTROL.	11.23.		THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL TRAFFIC CONTROL DEVICES THROUGHOUT THE PROJECT AT ALL TIMES IN ACCORDANCE WITH THE PLANS AND THE LATEST EDITION OF THE MUTCD. THE CONTRACTOR SHALL IMMEDIATELY TAKE APPROPRIATE MEASURES TO REMEDY ANY TRAFFIC CONTROL DEVICES THAT NEED TO BE REMOVED, REPLACED, ETC. DUE TO CHANGES IN PHASING, SEQUENCING, WEATHER, OR ANY OTHER REASON UPON NOTIFICATION FROM THE ENGINEER. FAILURE TO CORRECT ANY TRAFFIC CONTROL DEVICES THAT ARE NOT IN COMPLIANCE WITH THE PLANS OR THE LATEST EDITION OF THE MUTCD UPON NOTIFICATION FROM THE ENGINEER WILL RESULT IN A PRICE ADJUSTMENT TO THE CONTRACT. THE MINIMUM PRICE ADJUSTMENT TO THE CONTRACT WILL BE \$100 PER DAY PER OCCURRENCE. THE ENGINEER MAY DELAY THE ISSUANCE OF THE PRICE ADJUSTMENT(S) IF THE ENGINEER HAS DETERMINED ALL THE FOLLOWING APPLY:
10.5.1.		TEMPORARY WALKWAY SURFACES WILL ALLOW THE NORMAL USAGE OF WHEELCHAIRS, WALKERS, STROLLERS, AND OTHER MOBILITY DEVICES.	11.8.1.		THE CONTRACTOR SHALL NOTIFY THE ENGINEER 48 HOURS IN ADVANCE OF ALL OTHER TRAFFIC CONTROL CHANGES.	11.23.1.		THE CONTRACTOR HAS MADE A GOOD FAITH EFFORT TO BRING THE ITEMS INTO COMPLIANCE WITH THE PLANS AND LATEST EDITION OF THE MUTCD.
10.5.2.		CONCRETE, BITUMINOUS, STEEL, RUBBER, WOOD (3/4 INCH OR THICKER), AND PLASTIC ARE ACCEPTABLE SURFACE MATERIALS FOR THE TEMPORARY WALKWAY SURFACE. GRAVEL, MILLINGS, OR OTHER UNEVEN SURFACES ARE NOT ACCEPTABLE SURFACE MATERIALS.	11.8.2.		INSTALLATION OF TRAFFIC CONTROL SHALL NOT BE MADE BEFORE 8:30 AM ON THE DAY OF THE CLOSURE.	11.23.2.		COMPLIANCE WAS NOT ACHIEVED DUE TO WEATHER CONDITIONS OUTSIDE THE CONTRACTOR'S CONTROL AND THE CONDITIONS WERE SEVERE ENOUGH TO PREVENT THE CONTRACTOR FROM BRINGING THE ITEM INTO COMPLIANCE.
10.5.3.		TEMPORARY WALKWAY SURFACE DEVICES SHALL UTILIZE DIMENSIONS FROM 6F.74.1 IN THE MN MUTCD. THE TEMPORARY WALKWAY SURFACE SHALL BE SUPPORTED BY A SOLID BASE.	11.9.		REMOVING, RELOCATING, SALVAGING, AND RESETTING OF EXISTING TRAFFIC CONTROL DEVICES, INCLUDING DELINEATION, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.	11.23.3.		THE CONTRACTOR BROUGHT THE ITEM INTO COMPLIANCE AS SOON AS POSSIBLE AFTER THE WEATHER AND SITE CONDITIONS PERMIT.
10.6.		ANY PORTABLE SIGN OR BARRICADE PLACED IN OR ADJACENT TO A PEDESTRIAN WALKWAY SHALL HAVE A DETECTABLE EDGE TO GUIDE PEDESTRIANS WITH VISUAL DISABILITIES AROUND THE SIGN OR BARRICADE.	11.9.1.		ANY DELINEATORS OR SIGNS DAMAGED OR LOST SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE CITY.	11.24.		IF DELIVERIES OR UNLOADING OF MATERIALS OR EQUIPMENT MUST OCCUR ON ACTIVE STREETS, THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL PROTECTIONS IN ACCORDANCE WITH THE TEMPORARY TRAFFIC CONTROL MANUAL.
10.7.		SCHEDULE AND COORDINATE THE REPLACEMENT OF PEDESTRIAN ACCESS TO ACCOMMODATE THE NEEDS OF BUSINESSES AND RESIDENCES 7 DAYS PRIOR TO THE REPLACEMENT.	11.10.		PAYMENT FOR REMOVING, SALVAGING, INSTALLING, AND/OR RESETTING OF SIGNS SHALL BE MADE USING THE APPLICABLE BID ITEMS.	11.24.1.		FLAGGING, LANE CLOSURES OR OTHER APPROVED TECHNIQUES SHALL BE UTILIZED, REGARDLESS OF THE DURATION OF INTERRUPTION.
10.7.1.		LEAVE THE EXISTING SIDEWALKS IN-PLACE UNTIL SUCH TIME THAT IT IS REQUIRED TO REMOVE THEM TO ACCOMMODATE NEW CONSTRUCTION.	11.11.		DO NOT SUSPEND MATERIAL, EQUIPMENT, TOOLS OR PERSONNEL OVER LANES OR PEDESTRIAN FACILITIES OPEN TO TRAFFIC.	11.24.2.		NO STEEL TRACKS MAY BE DRIVEN ON PAVEMENTS NOT SCHEDULED FOR REPLACEMENT WITHOUT PRE-AUTHORIZATION FROM THE ROAD AUTHORITY.
10.7.2.		PEDESTRIAN ACCESS MAY BE PROVIDED TO BUSINESSES AND HOMES THROUGH THE USE OF ANY PUBLIC ACCESS FROM ADJACENT PARKING LOTS AND SIDE STREETS.	11.12.		PROTECT TRAFFIC AND PEDESTRIANS FROM EXCAVATIONS, DROP-OFFS, FALLING OBJECTS, SPLATTER OR OTHER POTENTIAL CONSTRUCTION HAZARDS.	11.25.		THE CONTRACTOR SHALL MAINTAIN IN-PLACE FACILITIES AS FOLLOWS:
10.7.3.		PROVIDE FRONT DOOR ACCESS TO BUILDINGS WITHOUT ALTERNATE PUBLIC ENTRANCES.	11.13.		DO NOT STORE MATERIALS OR EQUIPMENT IN THE WORK ZONE CLEAR ZONE UNLESS APPROVED BY THE ENGINEER. IF MATERIALS OR EQUIPMENT MUST BE STORED WITHIN THE WORK ZONE CLEAR ZONE, PROTECT WITH TEMPORARY BARRIER. IF THE ENGINEER AGREES THAT TEMPORARY BARRIER IS NOT PRACTICAL, DELINEATE WITH TYPE B CHANNELIZERS.	11.25.1.		SIGNS
10.8.		PROTECT THE PEDESTRIAN ROUTE WITH PEDESTRIAN BARRICADES OR PEDESTRIAN CHANNELIZING DEVICES IF IT IS ADJACENT TO CONSTRUCTION, EXCAVATION DROP-OFFS, TRAFFIC, OR OTHER HAZARDS. PROTECT THE PEDESTRIAN ROUTE WITH PORTABLE BARRIER IF IT IS ON THE SHOULDER, IN A PARKING LANE, OR IN A CLOSED LANE ADJACENT TO TRAFFIC ON A MULTILANE ROAD OR IF THE SPEED LIMIT IS GREATER THAN 40 MPH. WHEN BOTH SIDES OF A PEDESTRIAN ROUTE REQUIRE CHANNELIZING DEVICES, USE SIMILAR TYPES, UNLESS PORTABLE BARRIER IS USED TO PROTECT PEDESTRIANS FROM TRAFFIC.	11.14.		DO NOT PARK VEHICLES OR CONSTRUCTION EQUIPMENT IN THE CLEAR ZONE OR ANY LOCATION THAT OBSTRUCTS TRAFFIC CONTROL DEVICES. WORKERS ARE NOT ALLOWED TO PARK THEIR PRIVATE VEHICLES WITHIN THE PROJECT LIMITS UNLESS APPROVED BY THE ENGINEER.	11.25.1.1.		DO NOT REMOVE SIGNS UNLESS AUTHORIZED BY THE ENGINEER.
11. TRAFFIC CONTROL			11.15.		DO NOT LOAD OR UNLOAD MATERIAL OR EQUIPMENT ON THE SHOULDERS OF ANY ROADWAY WITHOUT A FULL SHOULDER CLOSURE USING SIGNS AND CHANNELIZING DEVICES SHOWN ON LAYOUT 8 IN THE FIELD MANUAL.	11.25.1.2.		CAREFULLY REMOVE AND STORE DESIGNATED SIGNS AND POSTS FOR REINSTALLATION.
11.1.		AT LEAST ONE WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES.	11.16.		HIGH VISIBILITY APPAREL	11.25.1.3.		REPLACE SIGNS AND POSTS DAMAGED DURING REMOVAL.
11.1.1.		SHOULD THE ROADWAY BE RESTRICTED TO ONE WAY TRAFFIC, FLAGGERS SHALL BE UTILIZED TO CONTROL TRAFFIC.	11.16.1.		DURING NIGHT WORK OR LOW LIGHT CONDITIONS, ALL WORKERS MUST WEAR HIGH VISIBILITY CLASS E LONG PANTS AND RETRO-REFLECTIVE HEADGEAR IN ADDITION TO THE ANSI CLASS 2 OR 3 VEST, SHIRT, OR JACKET.	11.25.1.4.		CAREFULLY REMOVE AND DELIVER SIGNS AND POSTS AS DIRECTED BY THE ENGINEER.
11.2.		THE CONTRACTOR SHALL CONDUCT OPERATIONS TO ALLOW CONTINUAL FIRE AND POLICE ACCESS TO ALL AREAS WITHIN THE PROJECT.	11.16.2.		ALL HIGH VISIBILITY APPAREL MUST BE WORN IN THE MANNER FOR WHICH IT WAS DESIGNED. ALL APPAREL WORN ON THE TORSO MUST BE CLOSED IN THE FRONT TO PROVIDE 360 DEGREE VISIBILITY. A WORKER'S HIGH-VISIBILITY APPAREL MUST BE REMOVED FROM SERVICE AND REPLACED IF IT BECOMES FADED, WORN, TORN, DIRTY, OR DEFACED, REDUCING THE CONSPICUITY OF THE APPAREL.	11.25.1.5.		PROVIDE FLAGGERS AS DIRECTED WHEN "STOP" OR OTHER PROHIBITION SIGNS ARE REMOVED.
11.3.		THE CONTRACTOR SHALL MAKE ACCESS PROVISIONS FOR GARBAGE TRUCKS, SCHOOL BUSES, AND MAIL DELIVERY.	11.17.		NIGHT WORK	11.25.1.6.		RELOCATE OR TEMPORARILY MOUNT ALL REQUIRED SIGNS ALONG STREETS WHICH REMAIN OPEN TO TRAFFIC.
11.4.		FURNISH, INSTALL, MAINTAIN, AND REMOVE ALL TRAFFIC CONTROL DEVICES REQUIRED TO PROVIDE SAFE MOVEMENT OF TRAFFIC AND PEDESTRIANS THROUGH THE PROJECT AT ALL TIMES FROM COMMENCEMENT OF THE WORK UNTIL PROJECT ACCEPTANCE.	11.17.1.		NIGHT WORK IS NOT PERMITTED ON THIS PROJECT WITHOUT PRIOR APPROVAL OF THE ENGINEER.	11.25.1.7.		REINSTALL ALL SIGNS NOT BEING REPLACED IN ACCORDANCE WITH THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MN MUTCD).
11.4.1.		MAINTAIN ROADS AND PEDESTRIAN FACILITIES UNDERGOING IMPROVEMENTS IN A CONDITION THAT ACCOMMODATES PUBLIC TRAFFIC.	11.18.		INDISCRIMINATE DRIVING AND PARKING OF VEHICLES WILL NOT BE PERMITTED. ANY DAMAGE TO THE VEGETATION, SURFACING, EMBANKMENT, DELINEATORS AND EXISTING SIGNS RESULTING FROM SUCH INDISCRIMINATE USE SHALL BE REPAIRED AND/OR RESTORED BY THE CONTRACTOR, AT NO EXPENSE TO THE PROJECT OR OWNER, AND TO THE SATISFACTION OF THE ENGINEER.	11.25.2.		MAILBOXES
11.4.2.		DO NOT CLOSE ROADS OR PEDESTRIAN FACILITIES, EXCEPT AS AUTHORIZED.	11.19.		SIGNS AND TRAFFIC CONTROL DEVICES MUST BE CRASHWORTHY AND MEET THE CRASH TESTING REQUIREMENTS OF THE AASHTO MANUAL FOR ASSESSING SAFETY HARDWARE 2016 (MASH-16).	11.25.2.1.		PRIOR TO PROCEEDING WITH ANY WORK, RELOCATE ANY MAIL AND OTHER DELIVERY BOXES WITHIN THE CONSTRUCTION AREA AND AS DESIGNATED BY THE ENGINEER, TO A LOCATION WHICH WILL ALLOW DELIVERY DURING CONSTRUCTION.
11.4.3.		THE ENGINEER MAY MODIFY THE REQUIREMENTS FOR TRAFFIC CONTROL AS DEEMED NECESSARY.	11.20.		INSTALLATION, MAINTENANCE, RELOCATION AND REMOVAL OF TYPE I AND II BARRICADES, CONES, VERTICAL PANELS, DRUMS, BARRICADE WARNING LIGHTS, WATCHMEN, TUBULAR MARKERS AND FLAGS SHALL BE INCIDENTAL TO CONSTRUCTION.	11.25.2.2.		MAILBOXES SO DESIGNATED BY ENGINEER SHALL BE REMOVED AND PLACED ON THE HOMEOWNER'S PROPERTY. (HOMEOWNER IS RESPONSIBLE FOR THE STORAGE OF THEIR OWN POSTAL BOX DURING CONSTRUCTION.)
11.5.		THE USE OF MAINTENANCE CROSSOVERS IN OR NEAR THE CONSTRUCTION AREA IS PERMITTED IF AUTHORIZED BY THE ENGINEER.	11.21.		THE CONTRACTOR OR DESIGNATED TRAFFIC CONTROL SUBCONTRACTOR SHALL ENSURE THE ADEQUACY, LEGIBILITY, AND REFLECTIVITY OF EACH SIGN AND DEVICE. SIGN WASHING SHALL BE CONSIDERED INCIDENTAL TO TRAFFIC CONTROL AND REQUIRED AS DIRECTED BY THE ENGINEER.	11.25.2.3.		TEMPORARY MAILBOX BANKS MAY BE UTILIZED IN ACCORDANCE WITH THE FOLLOWING:
11.6.		ALL TEMPORARY TRAFFIC MANAGEMENT MUST CONFORM TO AND BE INSTALLED IN ACCORDANCE WITH:	11.22.		FLAGGER WARNING SIGNS SHALL BE INSTALLED WHEN USING FLAGGERS TO DIRECT TRAFFIC.	11.25.2.4.		TEMPORARY MAILBOX BANKS SHALL BE ACCESSIBLE TO POSTAL SERVICE AND POSTAL RECIPIENT AT ALL TIMES.
11.6.1.		THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD);	11.22.1.		FLAGGERS SHALL WEAR APPROPRIATE SAFETY CLOTHING AND SHALL USE A STOP/SLOW PADDLE. PAYMENT FOR FLAGGING WILL BE INCIDENTAL TO CONSTRUCTION.	11.25.2.5.		NUMEROUS MAILBOX BANKS MAY BE UTILIZED TO MINIMIZE DISTANCES FROM POSTAL RECIPIENTS.
11.6.2.		THE "MINNESOTA TEMPORARY TRAFFIC CONTROL FIELD MANUAL" (FIELD MANUAL);	11.22.2.		COORDINATE THE FLAGGING OPERATIONS IN A MANNER THAT CAUSES MINIMUM DELAY TO THE TRAVELING PUBLIC. THE MAXIMUM DELAY TIME IS 10 MINUTES. IF THE OPERATION EXCEEDS THE MAXIMUM DELAY TIME, THE OPERATION MUST BE DISCONTINUED UNTIL A NEW TRAFFIC CONTROL PLAN IS DEVELOPED WHICH MEETS THE MAXIMUM DELAY REQUIREMENT.	11.25.2.6.		MATERIALS USED TO CONSTRUCT TEMPORARY MAILBOX BANKS SHALL BE THE CONTRACTOR'S.
11.6.3.		THE "SPEED LIMITS IN WORK ZONES GUIDELINES";				11.25.2.7.		PROPERTY OWNER'S POSTS, CROSS MEMBERS AND MAILBOXES NOT USED DURING TEMPORARY RELOCATION SHALL BE PROPERLY STORED BY THE CONTRACTOR.
11.6.4.		THE "MINNESOTA FLAGGING HANDBOOK";				11.25.2.8.		NOTIFICATION OF THE POSTAL SERVICE, DELIVERY SERVICES AND POSTAL RECIPIENT SHALL BE MADE 5 DAYS PRIOR TO RELOCATION.
11.6.5.		THE "MNDOT STANDARD SIGNS AND MARKINGS MANUAL";				11.25.2.9.		POSTAL SERVICE AND OTHER AFFECTED DELIVERY SERVICES SHALL APPROVE ALL LOCATIONS AND INSTALLATIONS.
11.6.6.		THE PLAN;				11.25.2.10.		IF POSTAL DELIVERY IS NOT ACHIEVED, WORK SHALL STOP
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.						

		DL		APPR	
Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively					
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.					
SIGNATURE: 					
TYPED NAME: DANIEL LANDRUS					
SEPTEMBER 3, 2025 LIC. NO. 54263					
STATUS: CONSTRUCTION		ADDENDUM NO. 2		9-3-25	
		SYM		DATE	
PROJECT TITLE: MINNETRISTA WOODLAND COVE WTP PROJECT					
SHEET TITLE: CIVIL CONSTRUCTION NOTES					
CLIENT: CITY OF MINNETRISTA MINNETRISTA, MN				PREPARED BY: CSD CHECKED BY: DL APPROVED BY: DL	
PROJECT NO: P05355-2023-002		SHEET DESIGNATOR:		SHEET NO:	
DATE: JULY 2025		ALT. PROJECT NO: 000-0000		GEN C004	



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SIGNATURE: 

TYPED NAME: DANIEL LANDRUS

SEPTEMBER 3, 2025 LIC. NO. 54263

STATUS: **CONSTRUCTION**

ADDENDUM 2

9-3-25 DATE

SYN

PROJECT TITLE: **MINNETRISTA WOODLAND COVE WTP PROJECT**

Advanced Engineering and Environmental Services, LLC www.ae2s.com

SHEET TITLE:

CIVIL CONSTRUCTION NOTES

CLIENT: **CITY OF MINNETRISTA**
MINNETRISTA, MN

PREPARED BY: CSD
CHECKED BY: DL
APPROVED BY: DL

PROJECT NO: P05355-2023-002
DATE: JULY 2025
ALT. PROJECT NO: 000-0000

SHEET DESIGNATOR: **GEN**

SHEET NO: **C004**

Advanced Engineering and Environmental Services, LLC www.ae2s.com

	(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 THROUGH INFILTRATION. OVERLAND FLOW IS NOT ALLOWED.
18.6.3.3.	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.
18.6.3.4.	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.
18.6.3.5.	PERMISSION MUST BE OBTAINED BY THE CITY FOR THE DISCHARGE OF WATER FROM THE DISTRIBUTION SYSTEM INTO CITY'S SANITARY SEWER SYSTEM.
18.7.	CONTRACTOR IS RESPONSIBLE FOR VERIFYING HYDRAULIC LOADING ON EXISTING SANITARY SEWER SYSTEM DURING TRENCH DEWATERING OPERATIONS TO ENSURE THAT SEWER BACKUPS DO NOT OCCUR.

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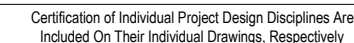
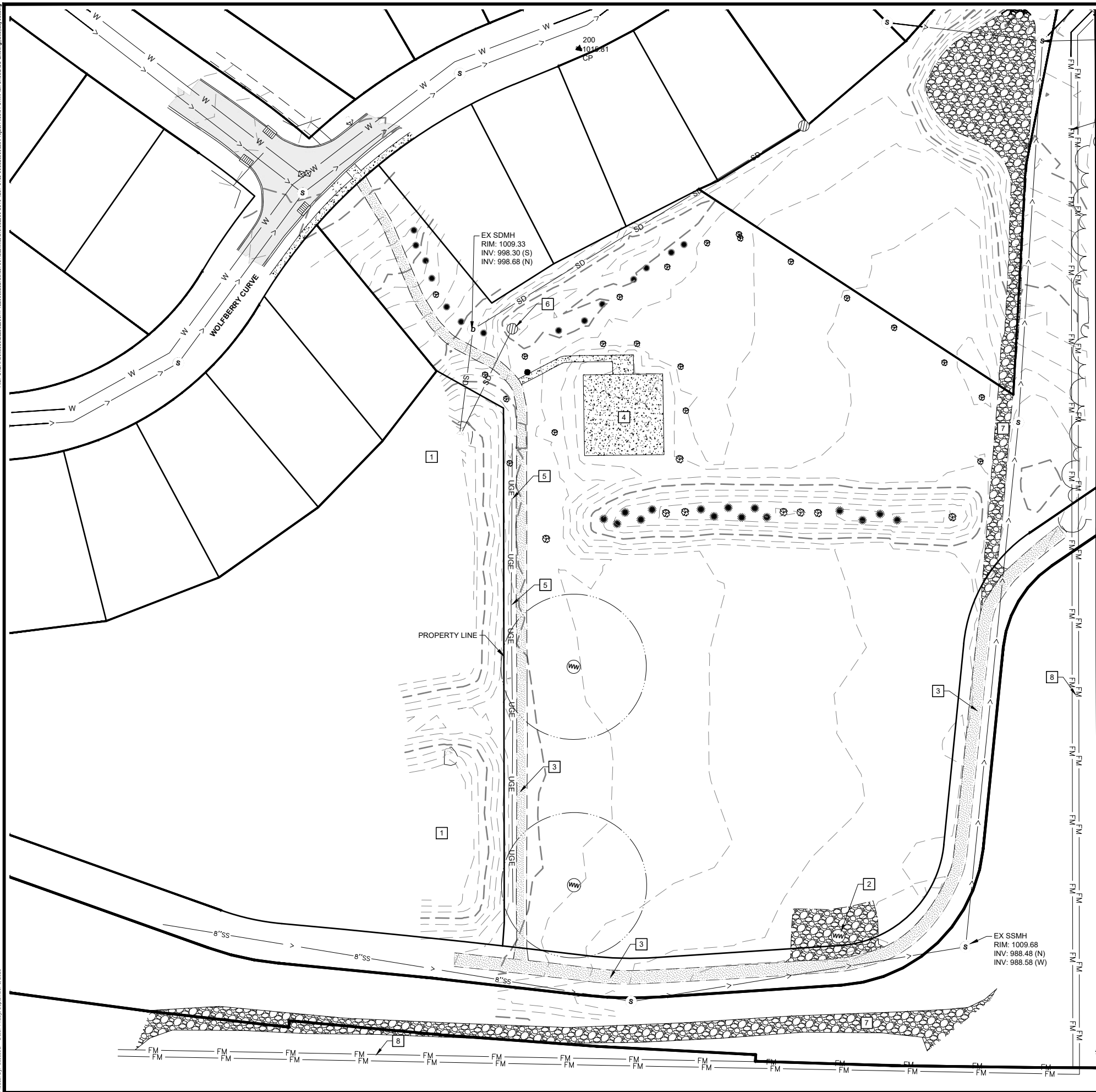
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18.7. CONTRACTOR IS RESPONSIBLE FOR VERIFYING HYDRAULIC LOADING ON EXISTING SANITARY SEWER SYSTEM DURING TRENCH DEWATERING OPERATIONS TO ENSURE THAT SEWER BACKUPS DO NOT OCCUR.

18. WATER MAIN AND APPURTENANCES

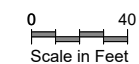
- 18.1. ALL WATER DISTRIBUTION MATERIALS SHALL MEET NSF / ANSI STANDARD 61 - DRINKING WATER SYSTEM COMPONENTS, HEALTH EFFECTS, NSF/ANSI 61, AND NSF/ANSI 372.
- 18.2. ALL VALVE OPERATION WILL BE DONE BY THE CITY WATER DEPARTMENT.
- 18.3. THE CITY OR ITS REPRESENTATIVE SHALL NOTIFY ALL CONSUMERS AFFECTED 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.
 - 18.6.2.1. THE BOIL ORDER WILL BE RESCINDED WITH THE PASSING OF THE BACTERIA TEST.
 - 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.
 - 18.6.3.1. 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.
 - 18.6.3.2. IF THE DISCHARGE LOCATION IS CLOSE TO WATERS OF THE STATE, DISCUSS EXCAVATION OF DEPRESSIONS OR BERMS

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SIGNATURE: _____ TYPED NAME: <u>DANIEL LANDRUS</u> SEPTEMBER 3, 2025 LIC. NO. <u>54263</u>		PROJECT TITLE:	
		MINNETRISTA WOODLAND COVE WTP PROJECT	
SHEET TITLE:			
CIVIL CONSTRUCTION NOTES			
CLIENT: CITY OF MINNETRISTA MINNETRISTA, MN		PREPARED BY: CSD CHECKED BY: DL APPROVED BY: DL	
PROJECT NO: P05355-2023-002 DATE: JULY 2025 ALT. PROJECT NO: 000-0000	SHEET DESIGNATOR: GEN	SHEET NO.: C006	



SIGNATURE:

SEPTEMBER 3, 2025 LIC. NO. 54263



- 1 STORMWATER POND
- 2 MONITORING WELL
- 3 EXISTING BITUMINOUS PATH - CONTRACTOR TO PROTECT AND KEEP OPEN DURING CONSTRUCTION
- 4 PICKLEBALL COURTS
- 5 UNDERGROUND ELECTRIC
- 6 EXISTING STORMWATER OVERFLOW STRUCTURE
- 7 EXISTING GRAVEL PATH
- 8 EXISTING SANITARY FORCEMAIN

EXISTING CONDITIONS

PREPARED BY: CSD/GP
CHECKED BY: DL
APPROVED BY: DL

SHEET DESIGNATOR:

SW

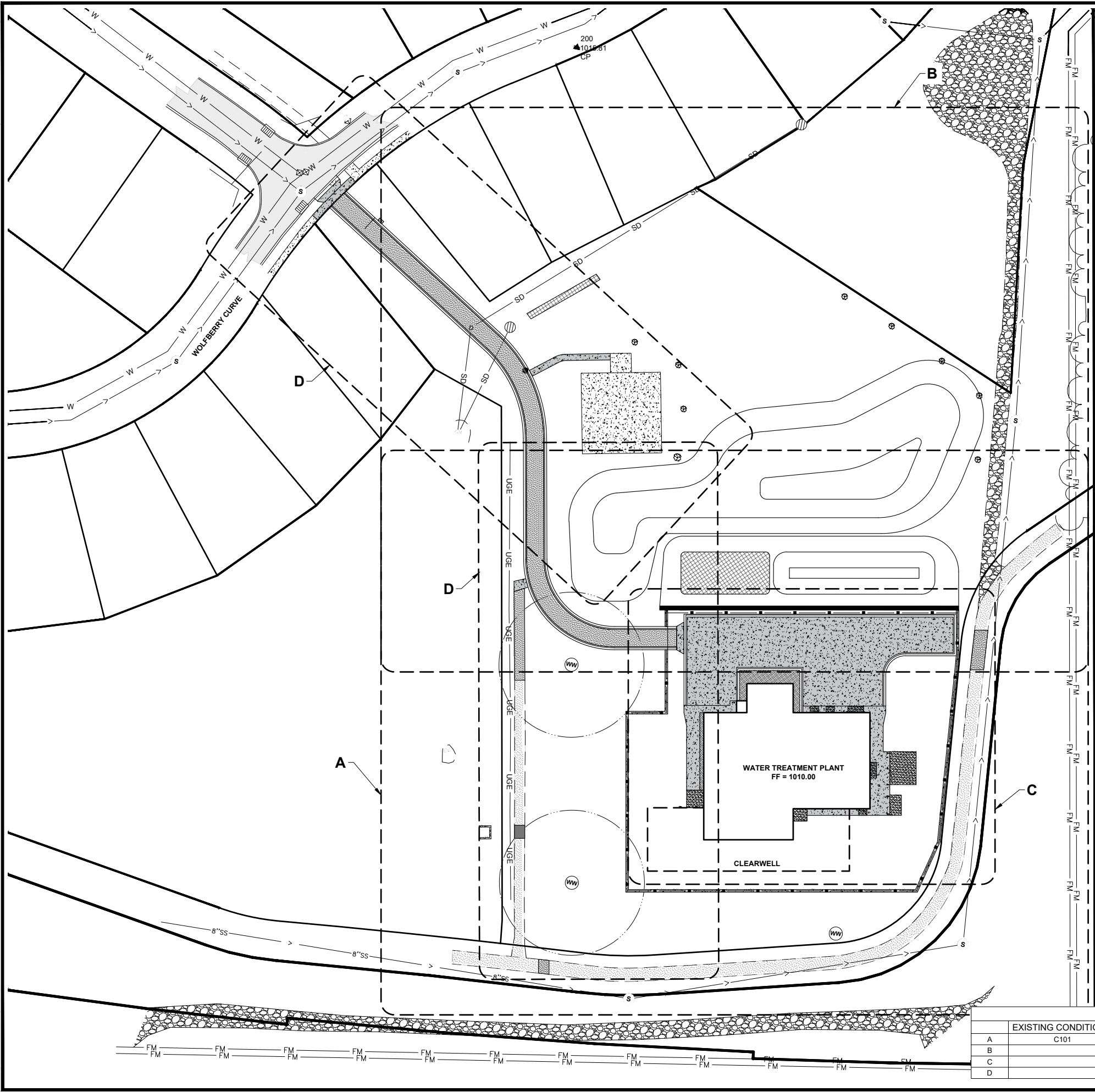
SHEET NO:
C101

STATUS: **CONSTRUCTION**

MINNETRISTA WOODLAND COVE WTP PROJECT

Advanced Engineering and Environmental Services, LLC www.ae2s.com

Printed By: jessica Date: Friday, September 5, 2025 File: C:\Data\Road\Jobs\2023\05\07\20230507-02\0507-02.dwg Project Title: 01 Civil Plan Sheet 105 New Sta. Landmark

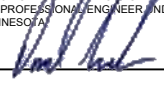


KEY INDEX TABLE			
	EXISTING CONDITIONS	DEMOLITON PLAN	SITE PLAN
A	C101	C102	C104
B			C105
C			C106
D			C107
			C110
			C111 - C112



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SEPTEMBER 3, 2025 LIC. NO. 54263

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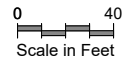
ADDITIONAL 2

9-3-25

DATE

SYMBOL

 NORTH

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Scale in Feet

PROJECT TITLE: MINNETRISTA WOODLAND COVE WTP PROJECT

Advanced Engineering and Environmental Services, LLC www.ae2s.com

SHEET TITLE: OVERALL LAYOUT - KEY PLAN

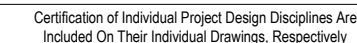
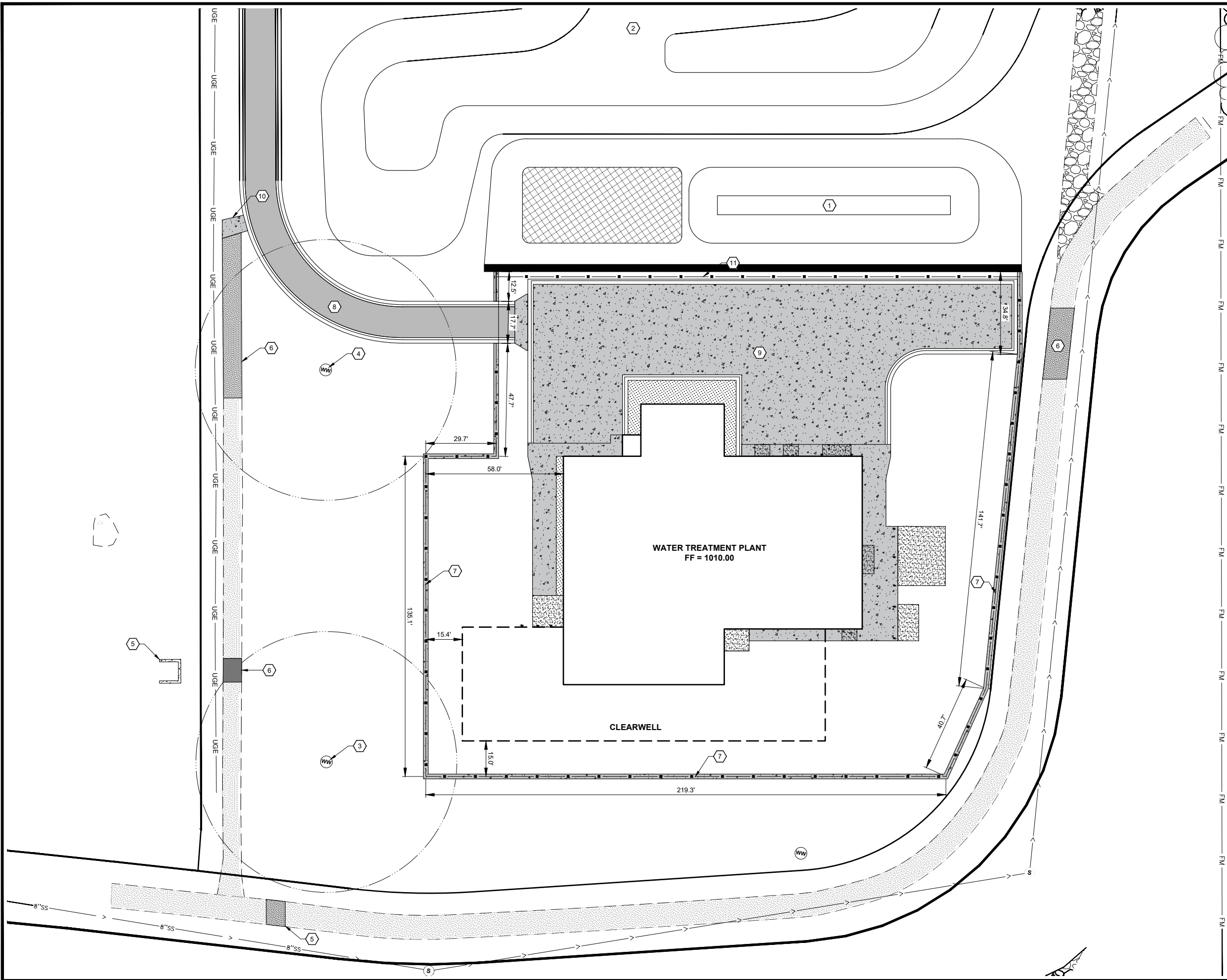
CLIENT: CITY OF MINNETRISTA
MINNETRISTA, MN

PROJECT NO: P05355-2023-002
DATE: JULY 2025
ALT. PROJECT NO: 000-0000

SHEET DESIGNATOR: SW

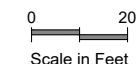
SHEET NO: C103

PREPARED BY: CSD
CHECKED BY: DL
APPROVED BY: DL



SIGNATURE: 

SEPTEMBER 3, 2025 LIC. NO. 54263



- | | |
|----|---|
| 1 | NEW STORM BASIN |
| 2 | NEW SCREENING BERM |
| 3 | WELL 8 - BY OTHERS |
| 4 | WELL 9 - BY OTHERS |
| 5 | NEW OVERTFLOW STRUCTURE - SEE STRUCTURAL |
| 6 | NEW BITUMINOUS TRAIL - SEE DETAIL STR-18 |
| 7 | NEW FENCE - SEE DETAIL 1 / C707 |
| 8 | NEW BITUMINOUS PAVEMENT - SEE DETAIL 1 / C707 |
| 9 | NEW CONCRETE PAVEMENT - SEE DETAIL 3 / C705 |
| 10 | NEW CONCRETE SIDEWALK - SEE DETAIL 2 / C710 |
| 11 | NEW TIMBER GUARD RAIL - SEE DETAIL 1 / C710 |

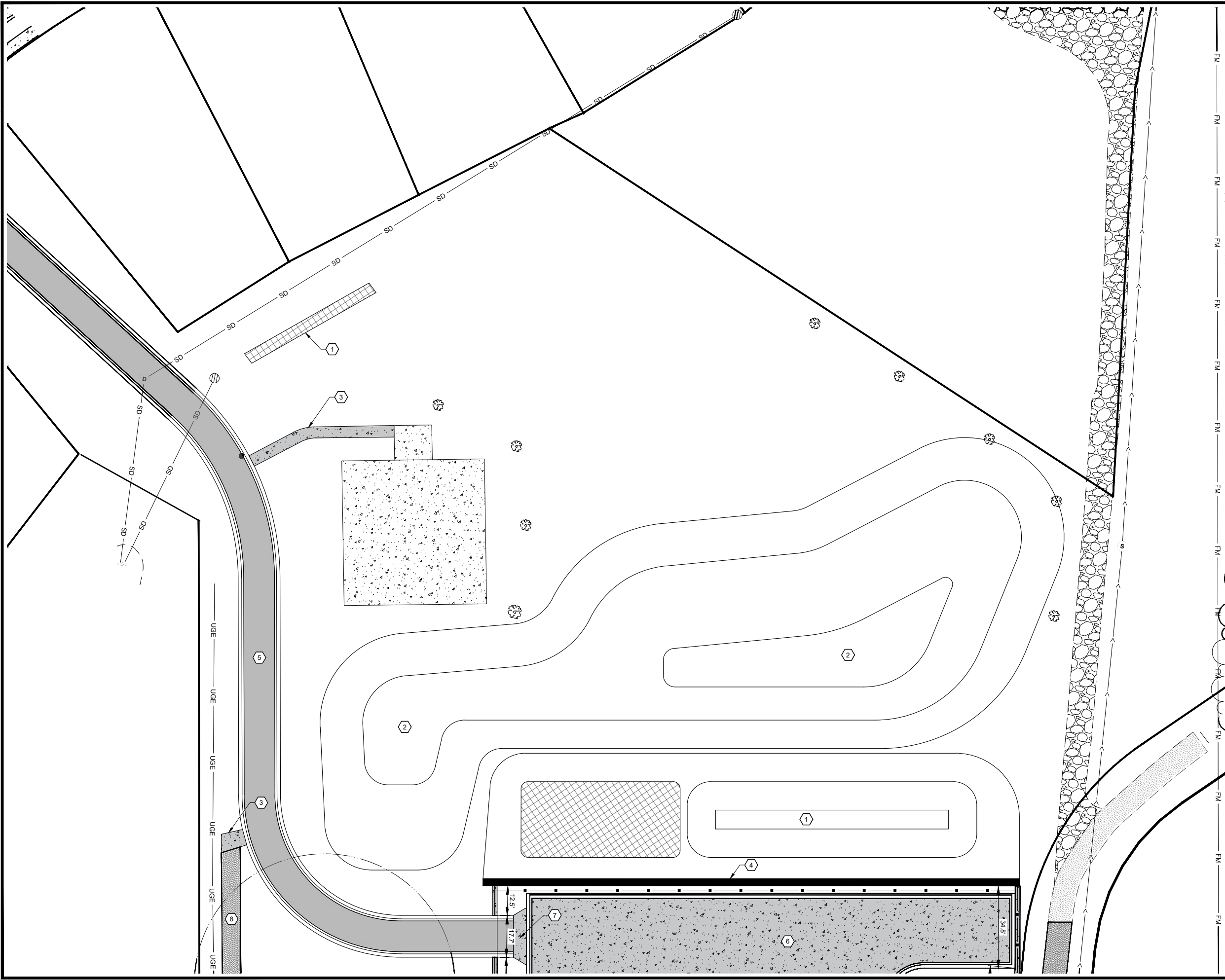
PROJECT NO: P05355-2023-002	SHEET DESIGNATOR: SW	SHEET NO: C
DATE: JULY 2025		
ALT. PROJECT NO: 000-0000		

STATUS: **CONSTRUCTION**

MINNETRISTA WOODLAND COVE WTP PROJECT

Advanced Engineering and Environmental Services, LLC www.ae2s.com

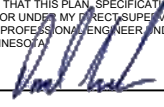
Plot: C:\Data\Road\2023\09\07\20230907.dwg User: daniel.landrus Date: 9/3/2025 10:42:10 AM Project: MINNETRISTA WOODLAND COVE WTP PROJECT SHEET: C105





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

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

SIGNATURE: 

TYPED NAME: DANIEL LANDRUS

SEPTEMBER 3, 2025 LIC. NO. 54263

STATUS: **CONSTRUCTION**

ADDITIONAL: 2

DATE: 9/3/25

SYMBOL: 

 NORTH

0 20
Scale in Feet

CONSTRUCTION NOTES

- 1 NEW STORM BASIN
- 2 NEW SCREENING BERM
- 3 NEW CONCRTE SIDEWALK - SEE DETAIL 2 / C710
- 4 NEW RETAINING WALL - SEE SPECIFICATION 32 32 00
- 5 NEW BITUMINOUS PAVEMENT - SEE DETAIL 1 / C705
- 6 NEW CONCRETE PAVEMENT - SEE DETAIL 3 / C705
- 7 NEW DRIVEWAY - SEE DETAIL STR-10
- 8 NEW BITUMINOUS TRAIL - SEE DETAIL STR-18

SHEET TITLE: **NEW SITE PLAN - ENLARGED VIEW**

CLIENT: **CITY OF MINNETRISTA**
MINNETRISTA, MN

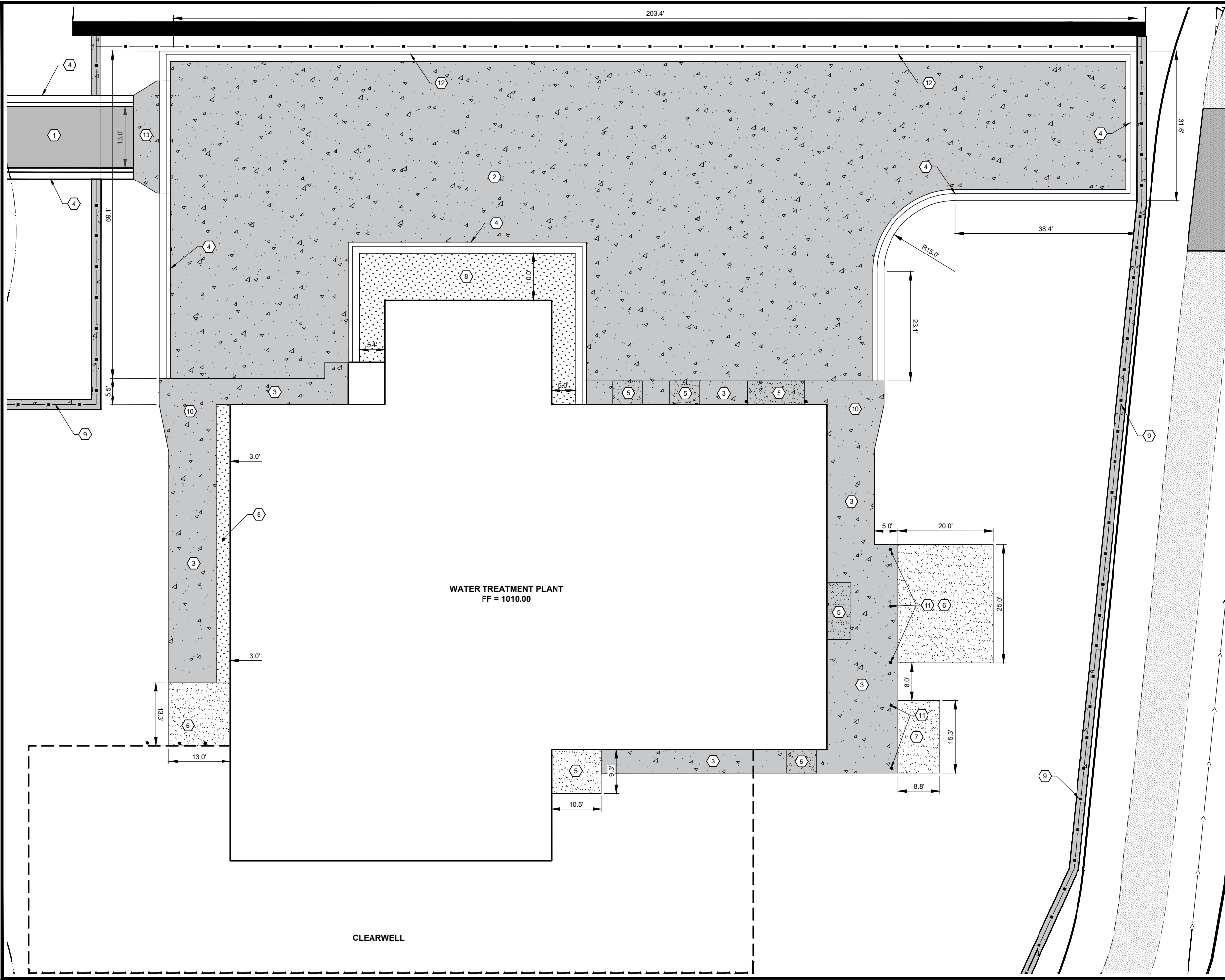
PROJECT NO: P05355-2023-002
DATE: JULY 2025
ALT. PROJECT NO: 000-0000

SHEET DESIGNATOR: **SW**

SHEET NO: **C105**

PREPARED BY: CSD
CHECKED BY: DL
APPROVED BY: DL

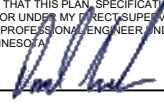
Plot: C:\Data\Road\20230905\07\20230905\20230905.dwg Project: Minnetrista WTP Project Plan: 01 Civil Plan Sheet: C106 New Sta. Layout: 01
Printed By: jessica Date: Friday, September 5, 2025





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SIGNATURE: 

TYPED NAME: DANIEL LANDRUS

SEPTEMBER 3, 2025 LIC. NO. 54263

STATUS: **CONSTRUCTION**

ADDENDUM 2

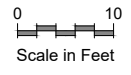
9/3/25

DATE

SYMBOL



NORTH



Scale in Feet

GENERAL NOTES

1. DIMENSIONS SHOWN ARE AT EDGE OF BITUMINOUS PAVEMENT.

CONSTRUCTION NOTES

1 BITUMINOUS PAVEMENT - SEE DETAIL 1 / C705

2 CONCRETE PAVEMENT - SEE DETAIL 3 / C705

3 CONCRETE SIDEWALK - SEE DETAIL 2 / C710

4 SURMOUNTABLE CURB & GUTTER - SEE DETAIL STR-01

5 CONCRETE STOOP - SEE STRUCTURAL

6 CONCRETE GENERATOR PAD - SEE ELECTRICAL

7 TRANSFORMER PAD - SEE STRUCTURAL

8 LANDSCAPE AREA - SEE LANDSCAPE

9 INSTALL FENCE - SEE DETAIL 1 / C707

10 INSTALL GATE - SEE DETAIL 6 / C705

11 NEW BOLLARD - SEE DETAIL 4 / C705

12 B618 CURB AND GUTTER - SEE DETAIL STR-01

13 NEW DRIVEWAY - SEE DETAIL STR-10

SHEET TITLE: **NEW SITE PLAN - ENLARGED VIEW**

CLIENT: **CITY OF MINNETRISTA**
MINNETRISTA, MN

PROJECT NO: P05355-2023-002
DATE: JULY 2025
ALT. PROJECT NO: 000-0000

SHEET DESIGNATOR: **SW**

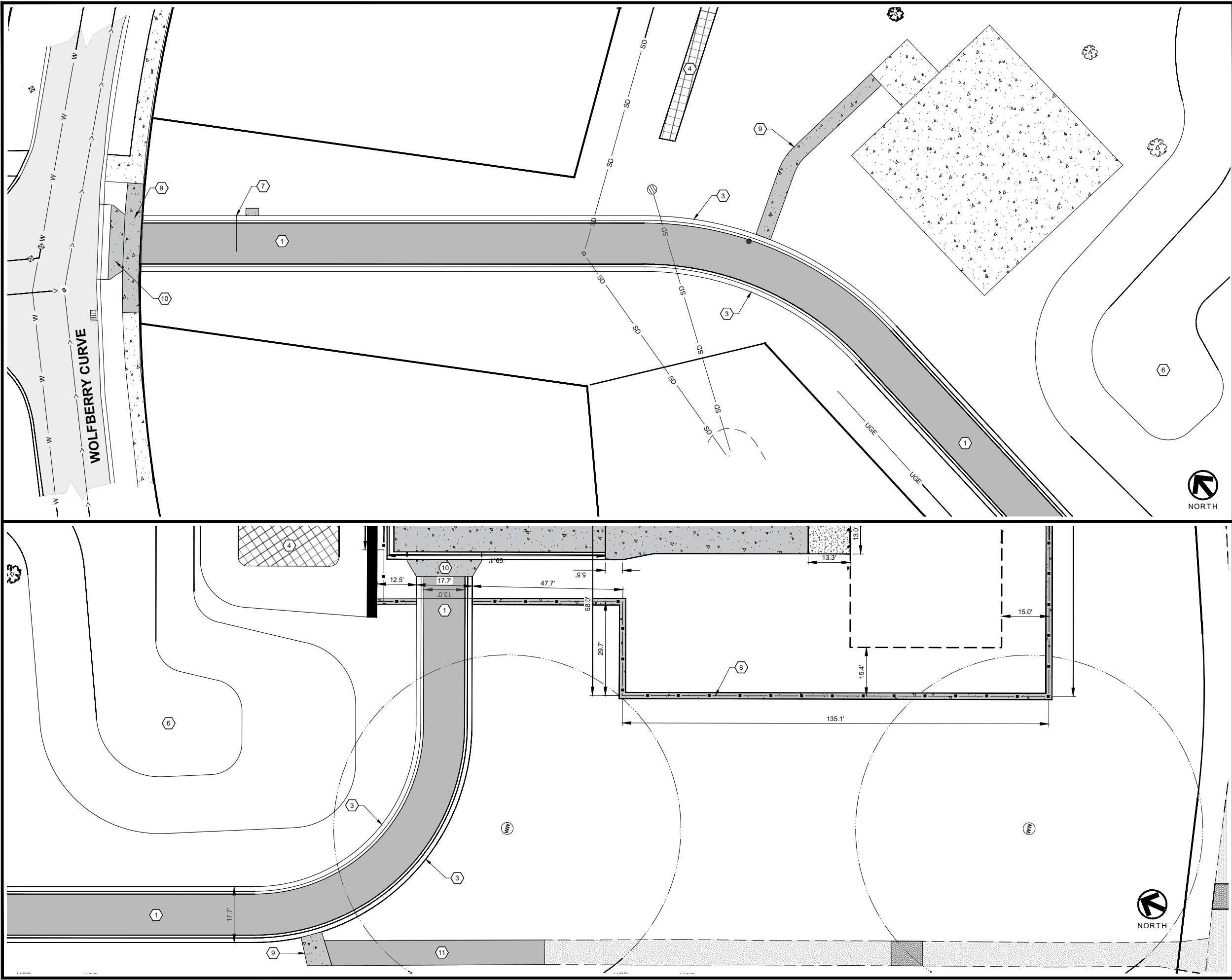
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PREPARED BY: CSD
CHECKED BY: DL
APPROVED BY: DL

PROJECT TITLE: **MINNETRISTA WOODLAND COVE WTP PROJECT**

Advanced Engineering and Environmental Services, LLC www.ae2s.com

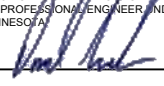
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SIGNATURE: 

TYPED NAME: DANIEL LANDRUS

SEPTEMBER 3, 2025 LIC. NO. 54263

STATUS: **CONSTRUCTION**

ADDITIONAL: 2

9/3/25

DATE

SYMBOL

DATE

Scale in Feet

0 15

GENERAL NOTES

1. DIMENSIONS SHOWN ARE AT EDGE OF BITUMINOUS PAVEMENT.

CONSTRUCTION NOTES

1 BITUMINOUS PAVEMENT - SEE DETAIL 1 / C705

2 CONCRETE PAVEMENT - SEE DETAIL 3 / C705

3 SURMOUNTABLE CURB & GUTTER - SEE DETAIL STR-01

4 NEW INFILTRATION BASIN

5 NEW STORM BASIN

6 NEW SCREENING BERM

7 NEW ARM GATE - SEE DETAIL 3 / C705

8 INSTALL FENCE - SEE DETAIL 1 / C707

9 CONCRETE SIDEWALK - SEE DETAIL 1 / C710

10 NEW DRIVEWAY - SEE DETAIL STR-10

11 NEW BITUMINOUS TRAIL - SEE DETAIL STR-18

PROJECT TITLE:

MINNETRISTA WOODLAND COVE WTP PROJECT

Advanced Engineering and Environmental Services, LLC www.ae2s.com

SHEET TITLE:

NEW SITE PLAN - ENLARGED VIEW

CLIENT:

CITY OF MINNETRISTA

MINNETRISTA, MN

PROJECT NO: P05355-2023-002

DATE: JULY 2025

ALT. PROJECT NO: 000-0000

PREPARED BY: CSD

CHECKED BY: DL

APPROVED BY: DL

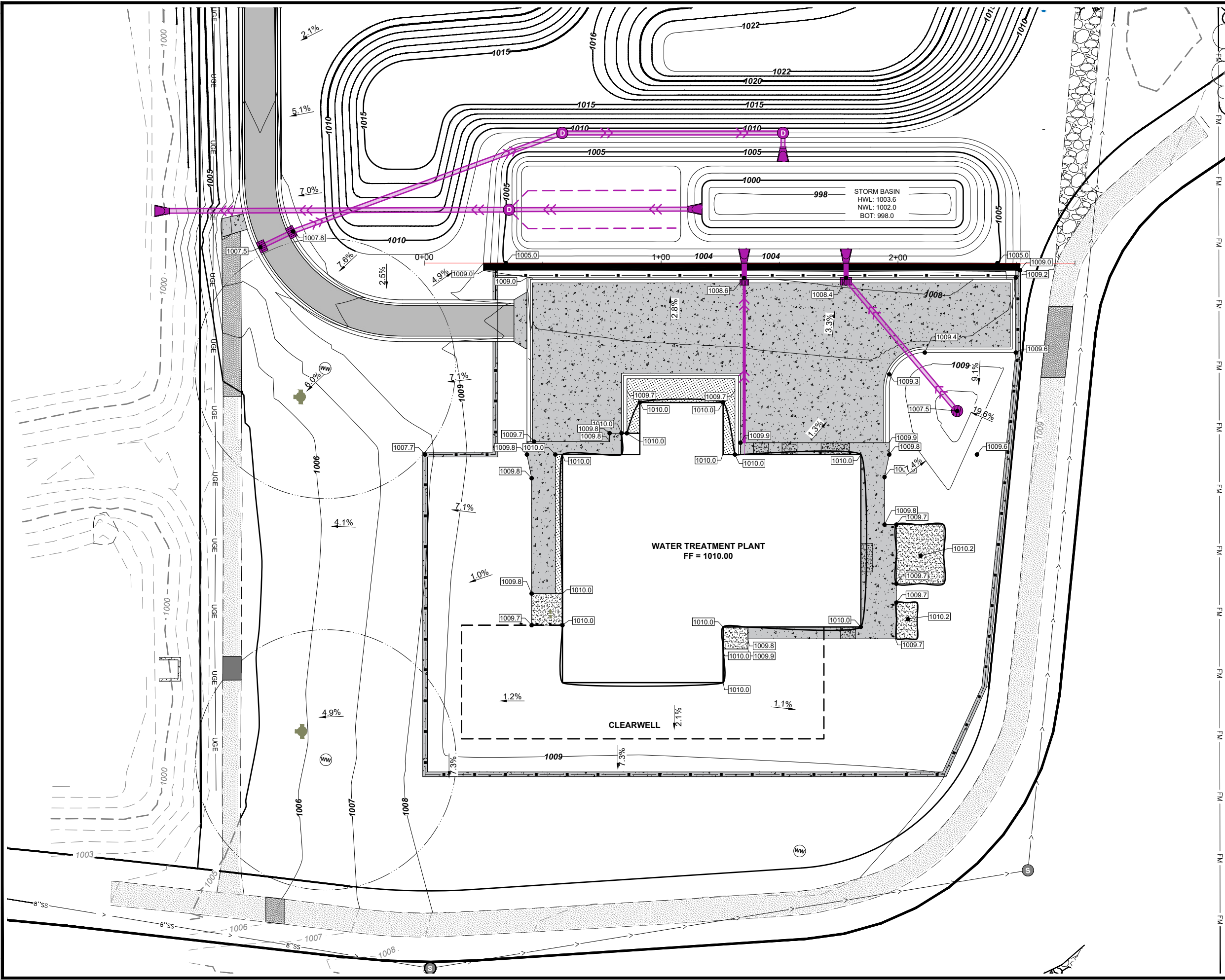
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SHEET NO:

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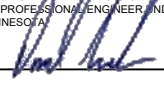
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Plot By: jessica Date: Friday, September 5, 2025





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SIGNATURE: 

TYPED NAME: DANIEL LANDRUS
SEPTEMBER 3, 2025 LIC. NO. 54263

STATUS: **CONSTRUCTION**

ADDITIONAL: 2

DATE: 9/3/25

SYMBOL: 

SCALE: 0 20
Scale in Feet

GENERAL NOTES

- SPOT ELEVATIONS SHOWN ON PLAN ARE AT FINISHED GRADE.
- SPOT ELEVATIONS SHOWN NEAR CURB ARE AT EDGE OF PAVEMENT.

SHEET TITLE: **SITE GRADING - ENLARGED VIEW**

CLIENT: **CITY OF MINNETRISTA**
MINNETRISTA, MN

PROJECT NO: P05355-2023-002
DATE: JULY 2025
ALT. PROJECT NO: 000-0000

SHEET DESIGNATOR: **SW**

SHEET NO: **C108**

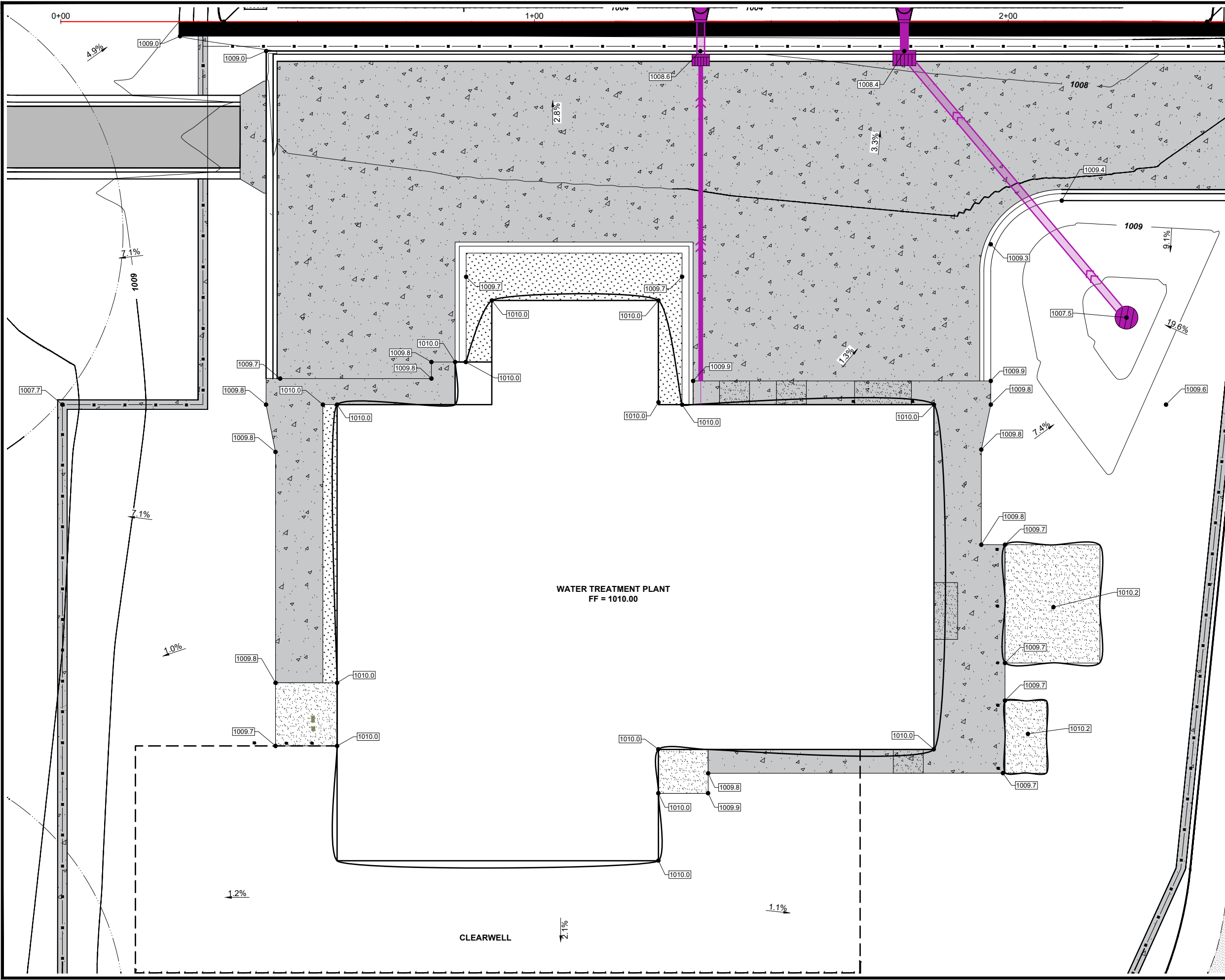
PREPARED BY: CSD/GP
CHECKED BY: DL
APPROVED BY: DL

PROJECT TITLE: **MINNETRISTA WOODLAND COVE WTP PROJECT**

Advanced Engineering and Environmental Services, LLC www.ae2s.com

File: C:\Road\Jobs\2023\09\742855-2\21\8857.dwg | User: daniel | Plot: 7/25/2025 10:10:42 AM | Plotter: HP DesignJet T120 | Plot Scale: 1"=10' | Sheet: 001 of 001 | Project: Minnetrista Woodland Cove WTP Project | Title: Site Grading - Enlarged View

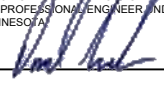
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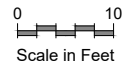
SIGNATURE: 

TYPED NAME: DANIEL LANDRUS

SEPTEMBER 3, 2025 LIC. NO. 54263



NORTH



Scale in Feet

GENERAL NOTES

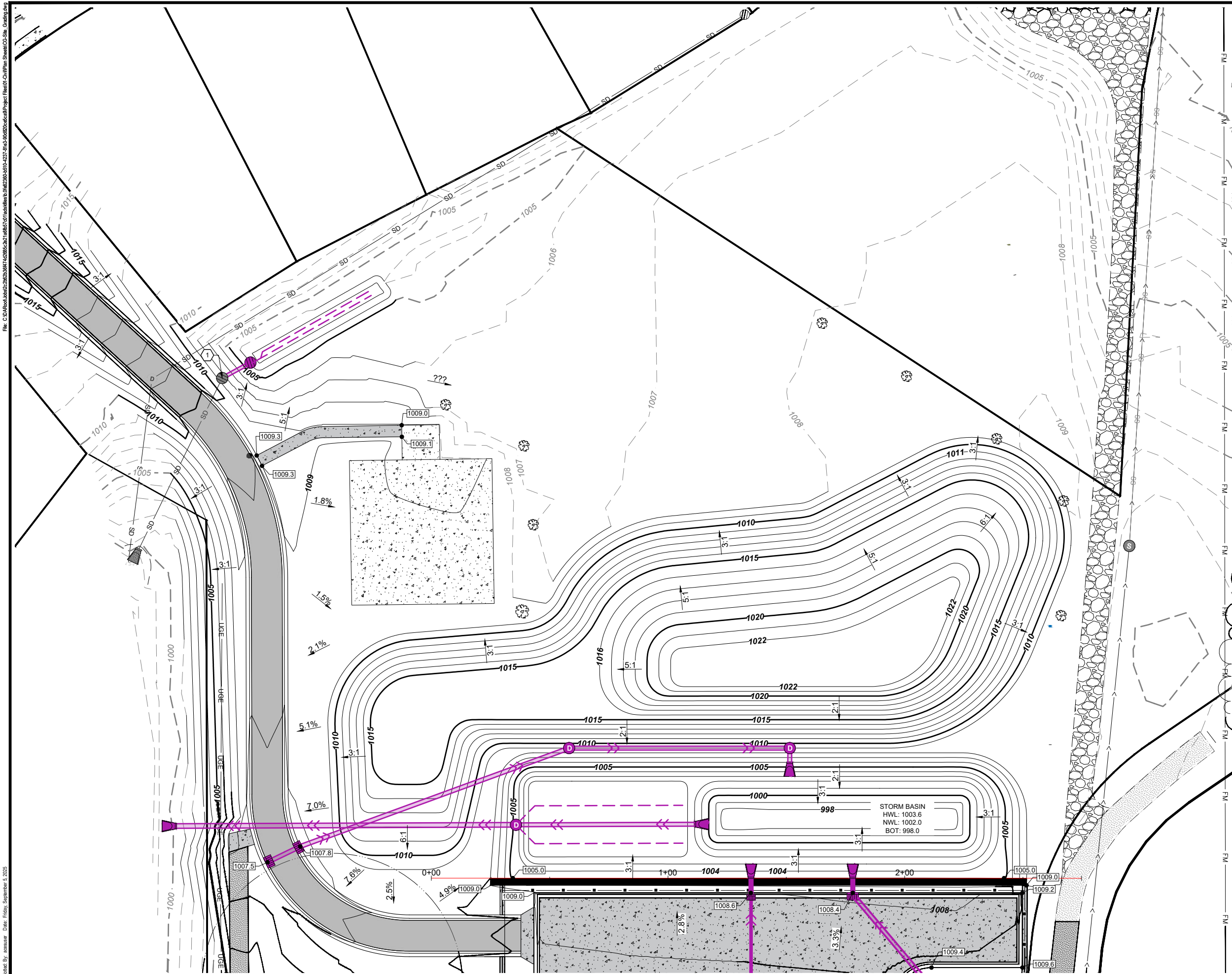
- SPOT ELEVATIONS SHOWN ON PLAN ARE AT FINISHED GRADE.
- SPOT ELEVATIONS SHOWN NEAR CURB ARE AT EDGE OF PAVEMENT.

SHEET TITLE: **SITE GRADING - ENLARGED VIEW**

CLIENT:	CITY OF MINNETRISTA MINNETRISTA, MN	PREPARED BY: CSD/GP
PROJECT NO: P05355-2023-002	SHEET DESIGNATOR:	CHECKED BY: DL
DATE: JULY 2025	APPROVED BY: DL	
ALT. PROJECT NO: 000-0000		

PROJECT TITLE:	MINNETRISTA WOODLAND COVE WTP PROJECT
STATUS:	CONSTRUCTION
ADDENDUM 2	
9/3/25	DATE
SYN	
DL	APPR

SW C109



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

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SIGNATURE:

TYPED NAME: DANIEL LANDRUS
SEPTEMBER 3, 2025 LIC. NO. 54263



0 20
Scale in Feet

GENERAL NOTES

- SPOT ELEVATIONS SHOWN ON PLAN ARE AT FINISHED GRADE.
- SPOT ELEVATIONS SHOWN NEAR CURB ARE AT EDGE OF PAVEMENT.

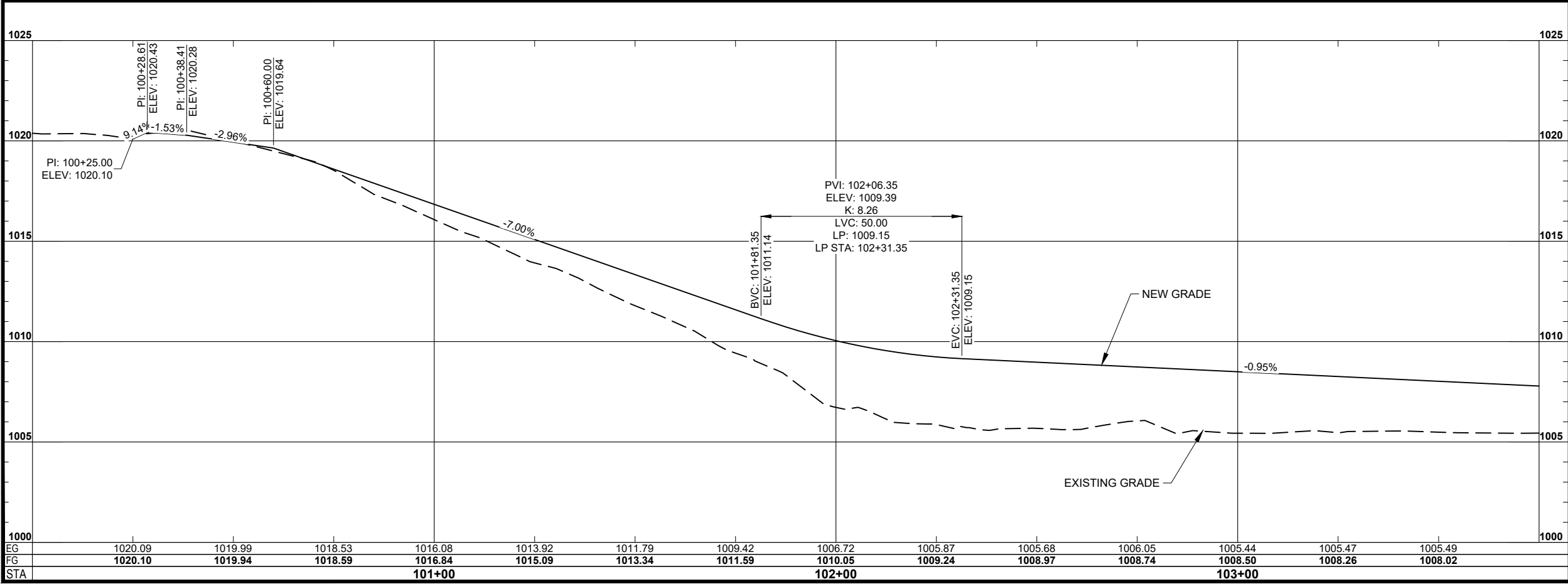
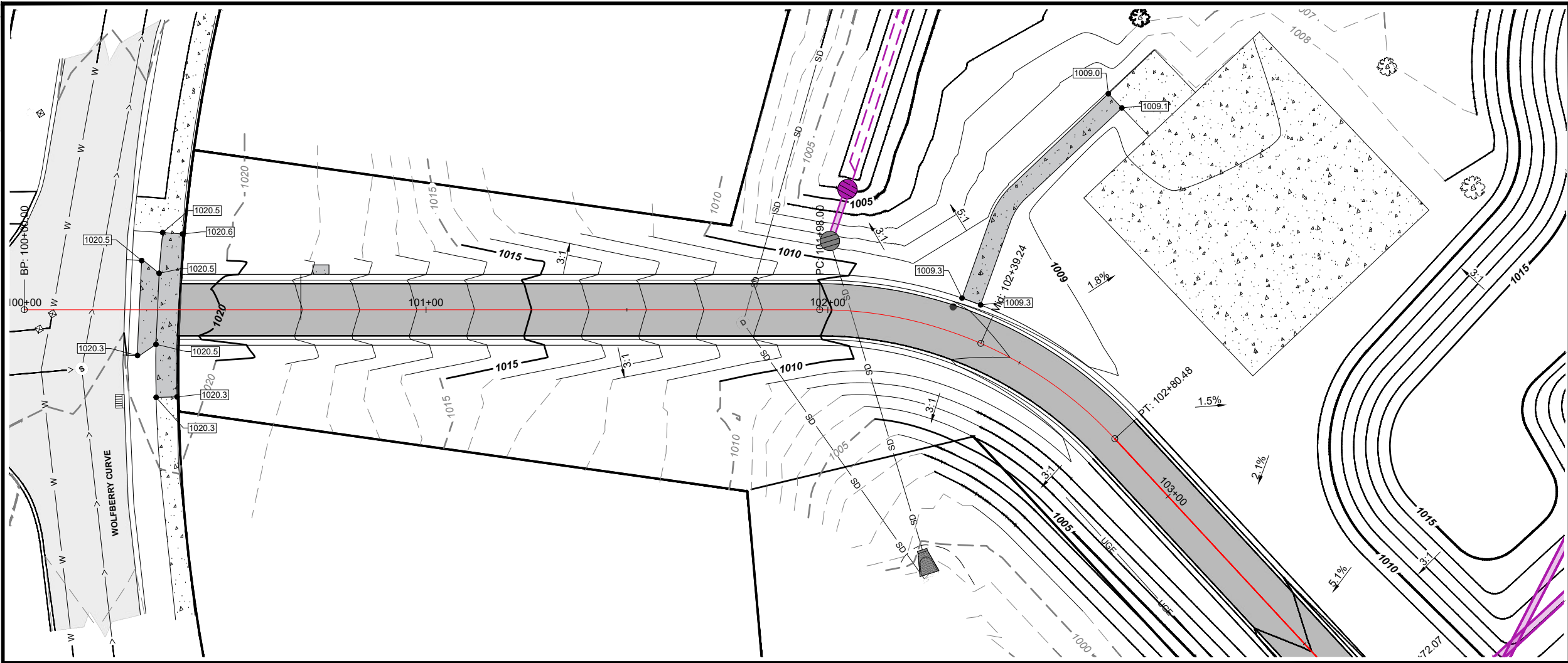
CONSTRUCTION NOTES

- SALVAGE GRATE AND ADJUST STRUCTURE. NEW RIM = 1008.49 SEE SHEET XXX

SITE GRADING - ENLARGED VIEW

CLIENT:	CITY OF MINNETRISTA	MINNETRISTA, MN	PREPARED BY: CSD/GP
PROJECT NO: P05355-2023-002	SHEET DESIGNATOR:	SHEET NO:	CHECKED BY: DL
DATE: JULY 2025			APPROVED BY: DL
ALT. PROJECT NO: 000-0000	SW	C110	

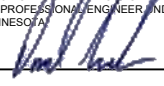
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Plot By: jessica Date: Friday, September 5, 2025





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SIGNATURE: 

TYPED NAME: DANIEL LANDRUS

SEPTEMBER 3, 2025 LIC. NO. 54263

STATUS: **CONSTRUCTION**

ADDITIONAL: 2

DATE: 9/3/25

SYMBOL: 

GENERAL NOTES

- SPOT ELEVATIONS SHOWN ON PLAN ARE AT FINISHED GRADE.
- SPOT ELEVATIONS SHOWN NEAR CURB ARE AT EDGE OF PAVEMENT.

PROJECT TITLE: **MINNETRISTA WOODLAND COVE WTP PROJECT**

Advanced Engineering and Environmental Services, LLC www.ae2s.com

SHEET TITLE: **SITE GRADING - ROAD PLAN & PROFILE**

CLIENT: **CITY OF MINNETRISTA**
MINNETRISTA, MN

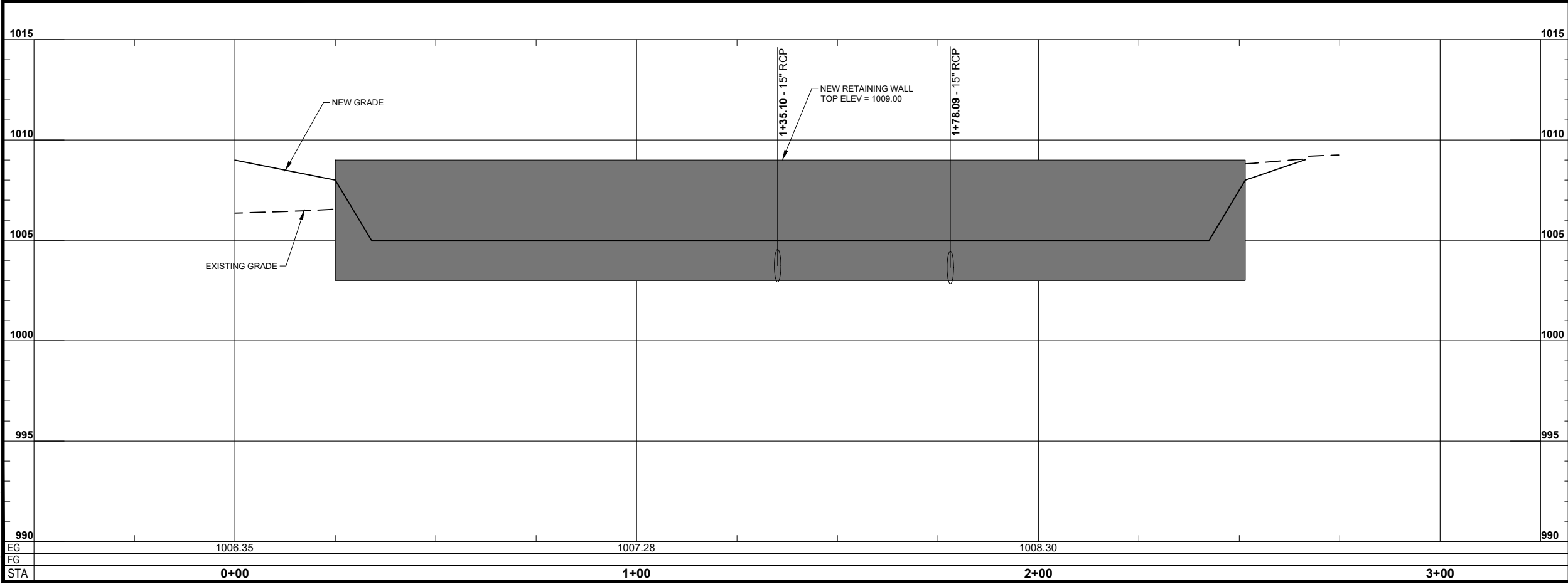
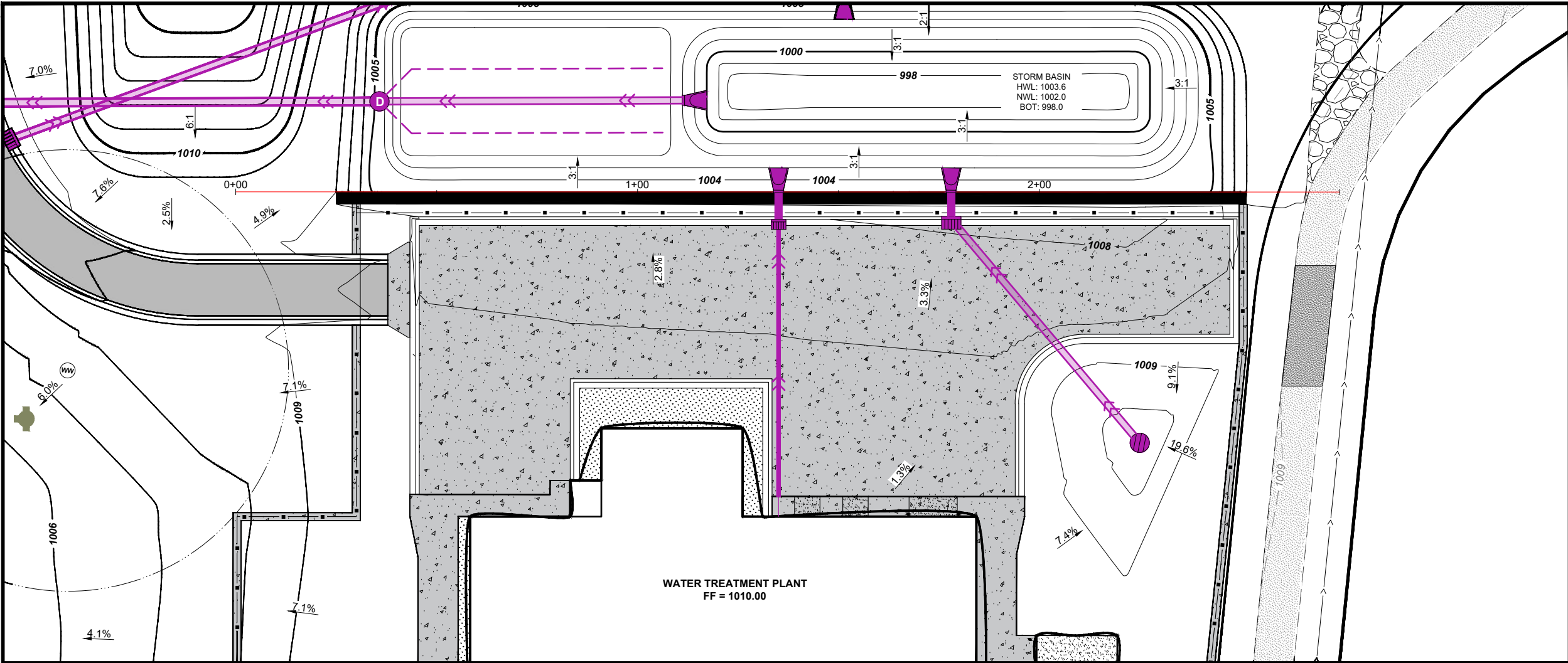
PREPARED BY: CSD/GP
CHECKED BY: DL
APPROVED BY: DL

PROJECT NO: P05355-2023-002
DATE: JULY 2025
ALT. PROJECT NO: 000-0000

SHEET DESIGNATOR: **SW**

SHEET NO: **C111**

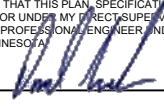
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SIGNATURE: 

TYPED NAME: DANIEL LANDRUS
SEPTEMBER 3, 2025 LIC. NO. 54263

STATUS: CONSTRUCTION
ADDENDUM 2
9/3/25
DATE

PROJECT TITLE: MINNETRISTA WOODLAND COVE WTP PROJECT
Advanced Engineering and Environmental Services, LLC www.ae2s.com

PROJECT TITLE: SITE GRADING - RETAINING WALL PLAN & PROFILE

CLIENT: CITY OF MINNETRISTA
MINNETRISTA, MN

PREPARED BY: CSD/GP
CHECKED BY: DL
APPROVED BY: DL

PROJECT NO: P05355-2023-002
DATE: JULY 2025
ALT. PROJECT NO: 000-0000

SHEET DESIGNATOR: SW
SHEET NO: C113

THIS 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.

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

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

CONTACT:	Dan Landrus, PE
PHONE:	763-463-5036
EMAIL:	dan.landrus@ae2s.com
PROJECT NO.:	P05355-2023-002

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.

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.

CONTRACTOR: _____
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.

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:

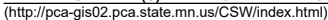
- 1) DATES OF TRAINING
- 2) NAME OF INSTRUCTORS
- 3) CONTENT AND HOURS OF TRAINING

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.

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

- EXISTING CONDITIONS, TRAFFIC AND EROSION CONTROL PLAN SHEETS
- PLAN AND PROFILE SHEETS
- CONSTRUCTION DETAILS
- SWPPP NOTE PLAN SHEETS
- PROJECT SPECIFICATIONS
- PROJECT BID FORM

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 AE25.

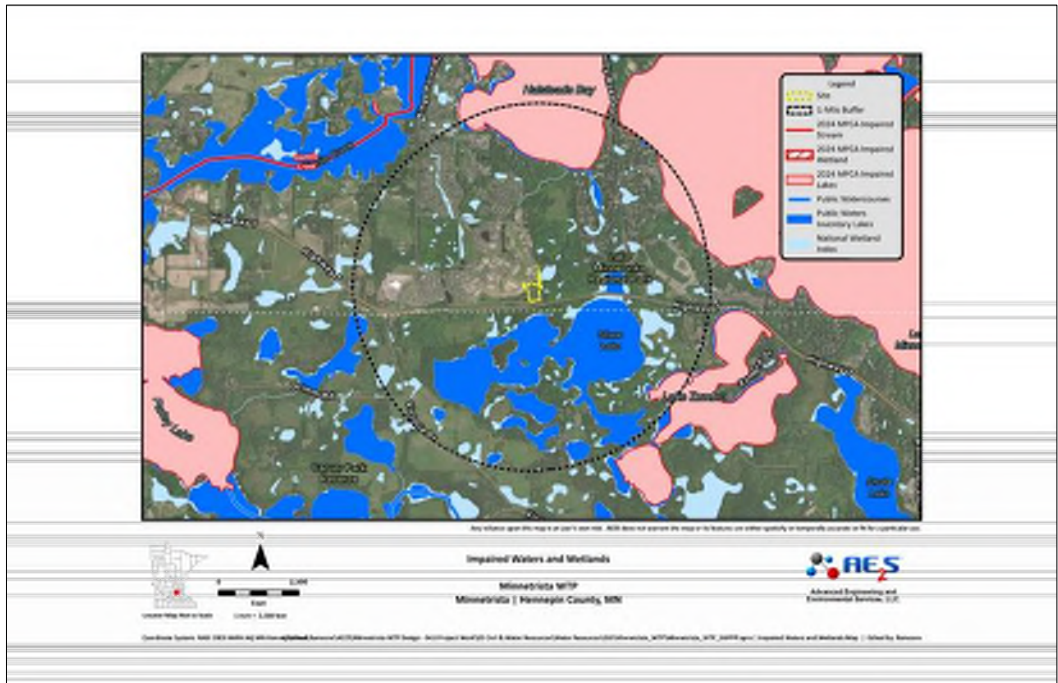


ID	NAME	TYPE	SPECIAL WATER CLASSIFICATION	TMDL
27-0133-09	Halsted's Bay (Lake Minnetonka)	Lake	NONE	Nutrients & Hg-F (Approved by USEPA)
27-0133-05	Upper Lake (Lake Minnetonka)	Lake	NONE	Hg-F (Approved by USEPA)
10-0041-00	Lake Zumbra	Lake	NONE	Hg-F (Approved by USEPA)

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



File: C:\00\Rebuild\2025\2506\420865202\ae2s\01\add\Reb_06222025\11-4237-31\ae2s\2025\06\01\Plan Sheets\C1-Site_Piping.dwg
Printed By: jessica Date: Friday, September 5, 2025

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 PIPE			
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 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 SUMMARY- SEE 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

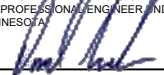
OVERFLOW SUMMARY - SEE SHEET C212						
STRUCTURE NAME	STATION	RIM ELEVATION	PIPES IN	PIPES OUT	NORTHING	EASTING
OUTFALL-1	130+13	1002.78		20" PVC C900 INV E = 1001.00	136968.09	420929.62
CPLG-1	131+28	1005.94	20" PVC C900 INV W = 1002.18	20" PVC C900 INV E = 1002.18	136990.46	421042.09
BLDG_CONN-1	131+33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



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

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

SIGNATURE: 

TYPED NAME: DANIEL LANDRUS

SEPTEMBER 3, 2025 LIC. NO. 54263

STATUS: CONSTRUCTION

ADDENDUM 2

9-3-25

DATE

SYN

APPR

SHEET TITLE:

SITE PIPING - SUMMARY TABLES

CLIENT:

CITY OF MINNETRISTA

MINNETRISTA, MN

PROJECT NO: P05355-2023-002

DATE: JULY 2025

ALT. PROJECT NO: 000-0000

SHEET DESIGNATOR:

SW

SHEET NO:

C201

PREPARED BY: GP

CHECKED BY: DL

APPROVED BY: DL

MINNETRISTA WOODLAND COVE WTP PROJECT

Advanced Engineering and Environmental Services, LLC www.ae2s.com

File: C:\00\Revised\220226\4420855202\ae5701\add\Plan_062226\5011-4272-3\aes2020sca\Project\Plan01-Cov\Plan Sheets\C1-Site_Piping.dwg
Printed By: jessica 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%

FITTINGS			
FITTING	STATION	NORTHING	EASTING
8" CPLG	0+10.00	137023.8200	421078.9785
8" 45° BEND	0+31.28	137019.7518	421058.0948
8" 45° BEND	0+43.20	137026.4165	421048.2054
8" 45° BEND	1+20.68	137102.4677	421033.3904
8" 45° BEND	1+77.25	137149.3781	421065.0040
8" 45° BEND	3+70.15	137186.2619	421254.3435
8" 45° BEND	3+77.22	137192.1257	421258.2952

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



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

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

SIGNATURE:

TYPED NAME: DANIEL LANDRUS
SEPTEMBER 3, 2025 LIC. NO. 54263

STATUS: **CONSTRUCTION**
ADDENDUM 2
9-3-25
SYN DATE

MINNETRISTA WOODLAND COVE WTP PROJECT

Advanced Engineering and Environmental Services, LLC www.ae2s.com

SHEET TITLE:			
SITE PIPING - SUMMARY TABLES			
CLIENT:		PREPARED BY: GP	
CITY OF MINNETRISTA		CHECKED BY: DL	
MINNETRISTA, MN		APPROVED BY: DL	
PROJECT NO: P05355-2023-002	SHEET DESIGNATOR:	SHEET NO:	
DATE: JULY 2025	SW	C202	
ALT. PROJECT NO: 000-0000			