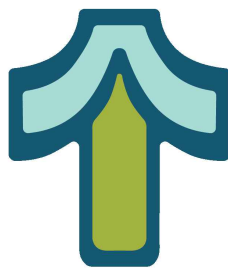


CITY OF TUALATIN

SW 108TH AVE WATER RESERVOIR

AND PUMP STATION

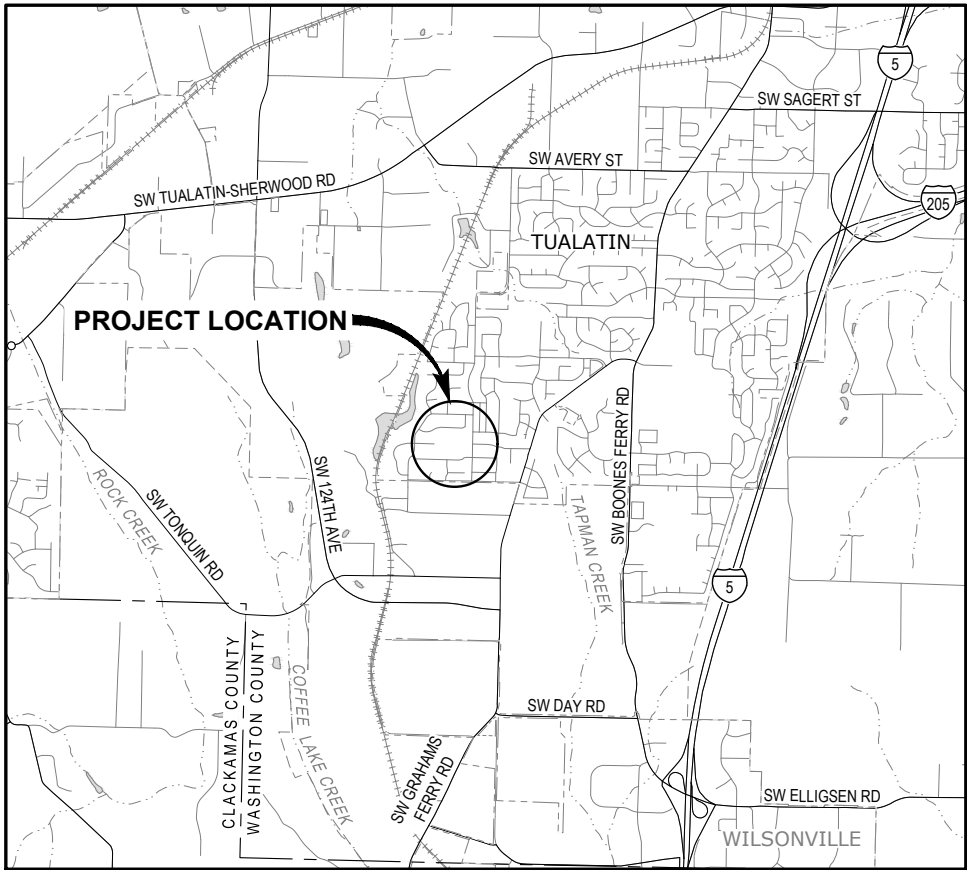


CONDITIONAL USE PERMIT APPLICATION

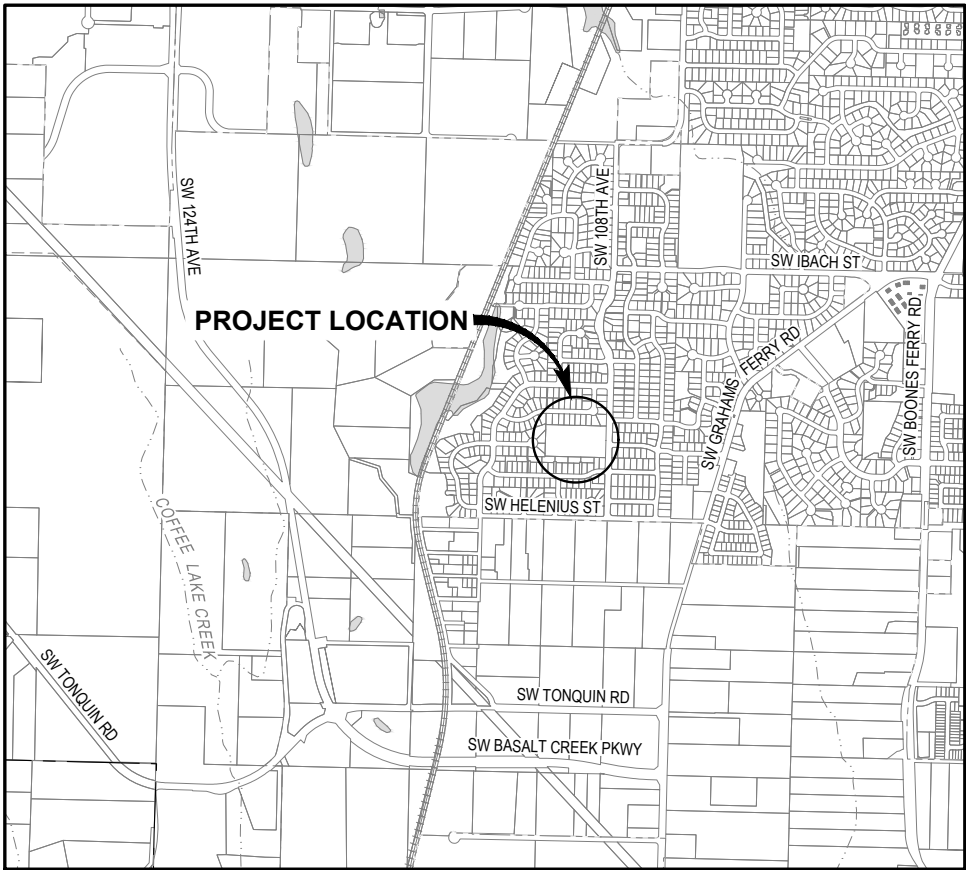
PROJECT NO: W240758OR
APRIL 2025



1 SW COLUMBIA STREET, SUITE 1700
PORTLAND, OREGON 97204
P 503.225.9010



VICINITY MAP
SCALE: 1" = 2000'



LOCATION MAP
SCALE: 1" = 1000'



PROJECT CONTACTS

CITY PROJECT MANAGER
ABBY MCFETRIDGE
CITY OF TUALATIN

CIVIL ENGINEER AND DESIGN PROJECT MANAGER
ADAM BLAIR, PE
CONSOR

STRUCTURAL ENGINEER
ETHAN ALTON, PE, SE
PETERSON STRUCTURAL ENGINEERS

ELECTRICAL ENGINEER
JEFFREY HOWARD, PE
R&W

INSTRUMENTATION & CONTROL
JEFFREY HOWARD, PE
R&W

GEOTECHNICAL ENGINEER
KEVIN WOOD, PE
SHANNON & WILSON



**PRELIMINARY
NOT FOR
CONSTRUCTION**



Know what's below.
Call before you dig.

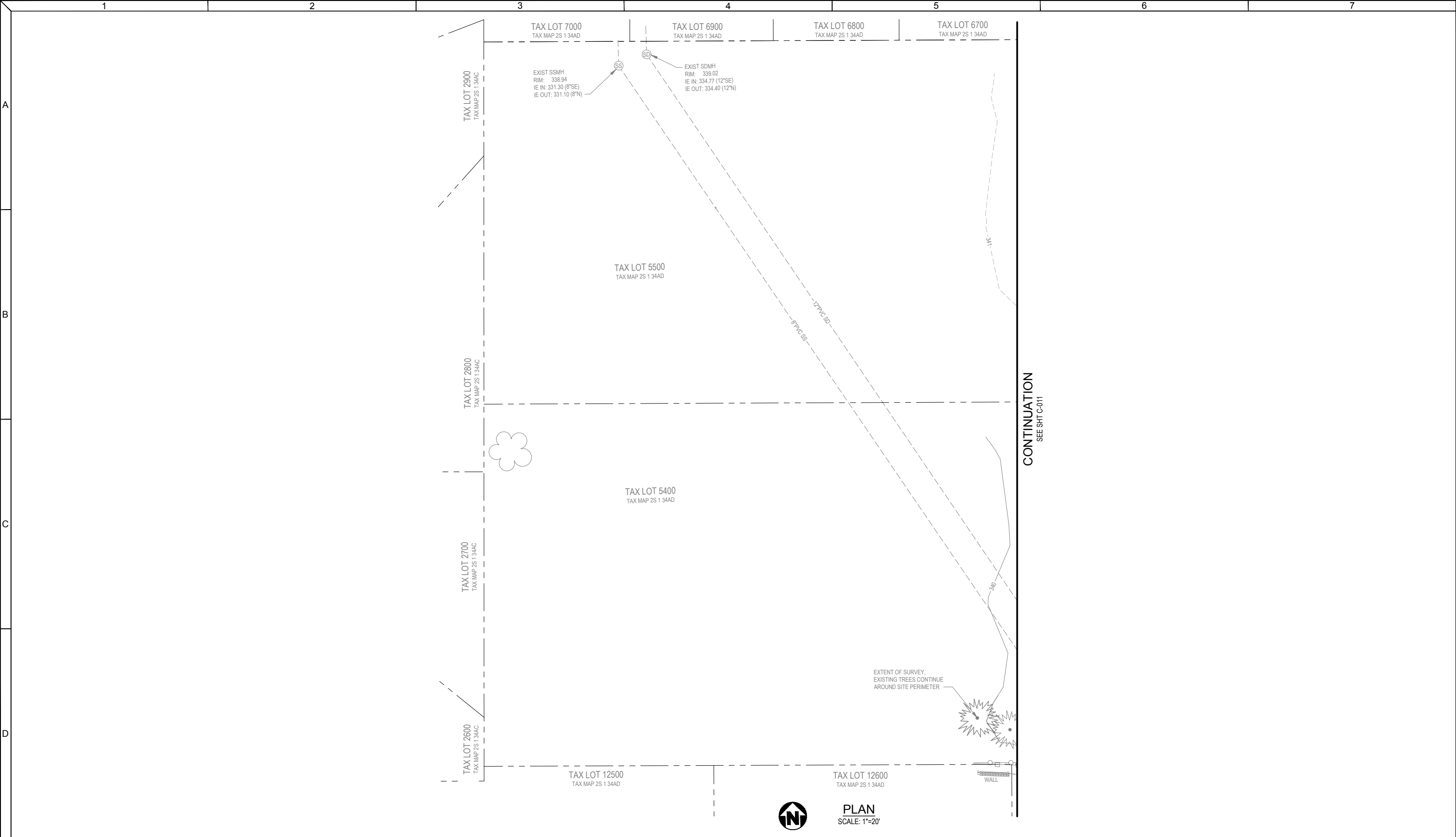
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Drawing Path and Name: A:\V-W\Projects\OR Tualatin\2024\W240758\0012 CADD\12-5 sheets\W240758OR_01-G-002.dwg Plotted Date: May 6, 2025 12:24 PM By: Justin Dew

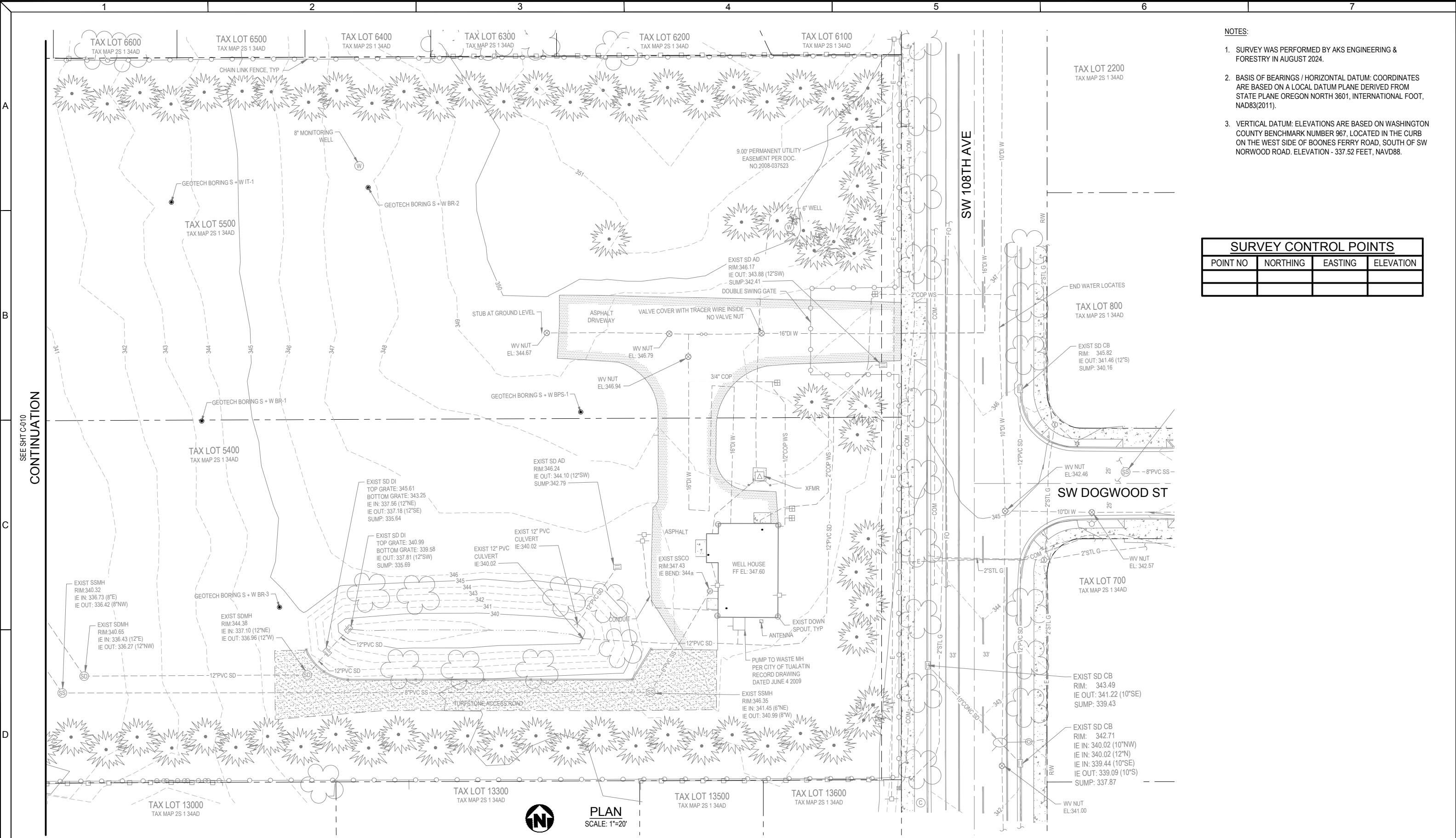
1		2		3		4		5		6		7			
A	@	AT	CMU	CONCRETE MASONRY UNIT	FO	FIBER OPTIC	KW	KILOWATT	PROP	PROPERTY	TCE	TEMPORARY CONSTRUCTION EASEMENT			
	AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS	CND	CONDUIT	FOC	FACE OF CONCRETE	KWY	KEYWAY	PRV	PRESSURE REDUCING VALVE	TDH	TOTAL DYNAMIC HEAD			
	AB	ANCHOR BOLT	COL	COLUMN	FOF	FACE OF FINISH			PS	PUMP STATION	TEMP	TEMPERATURE / TEMPORARY			
	ABAN(D)	ABANDON(ED)	COMB	COMBINATION	FOM	FACE OF MASONRY	L	LENGTH	PSIG	POUNDS PER SQUARE INCH GAUGE	T&G	TONGUE & GROOVE			
	ABS	ACRYLONITRILE BUTADIENE STYRENE	CONC	CONCRETE	FOS	FACE OF STUDS	LAB	LABORATORY	PSL	PIPE SLEEVE	THK	THICK / THICKNESS			
	ABV	ABOVE / ALCOHOL BY VOLUME	CONN	CONNECTION	FPM	FEET PER MINUTE	LAV	LAVATORY	PSPT	PIPE SUPPORT	THRD	THREAD (ED)			
	AC	ASPHALTIC CONCRETE	CONST	CONSTRUCTION	FPS	FEET PER SECOND	LB	POUND	PT	POINT OF TANGENCY	THRU	THROUGH			
	ACI	AMERICAN CONCRETE INSTITUTE	CONTR	CONTINUOUS / CONTINUATION	FRP	FIBERGLASS REINFORCED PLASTIC	LF	LINEAR FOOT	PTVC	POINT OF TANGENCY ON VERTICAL CURVE	TP	TEST PIT / TOP OF PAVEMENT / TURNING POINT			
	ACP	ASPHALTIC CONCRETE PAVING	COORD	COORDINATE	FT	FEET / FOOT	LIN	LINEAL							
	ADJ	ADJUSTABLE	COP	COPPER	FTG	FOOTING	LN	LANE	PTW	PUMP TO WASTE	TRANS	TRANSITION			
B	ADJC	ADJACENT	CORP	CORPORATION	FUT	FUTURE	LOC	LOCATION	PV	PLUG VALVE	TSP	TRI-SODIUM PHOSPHATE			
	AFF	ABOVE FINISHED FLOOR	CORR	CORRUGATED	FXTR	FIXTURE	LONG	LONGITUDINAL	PVC	POLYVINYL CHLORIDE	TST	TOP OF STEEL			
	AFG	ABOVE FINISHED GRADE	CP	CONTROL POINT			LP	LOW PRESSURE	PVMT	PAVEMENT	TW	TOP OF WALL			
	AHR	ANCHOR	CPLG	COUPLING	G	GAS	LPT	LOW POINT	PW	POTABLE WATER	TYP	TYPICAL			
	AL	ALUMINUM	CPVC	CHLORINATED POLYVINYL CHLORIDE	GA	GAUGE	LRG	LARGE	PWR	POWER					
	ALT	ALTERNATE	CR	CRUSHED ROCK	GAL	GALLON	LS	LONG SLEEVE / LUMP SUM			UG	UNDERGROUND			
	AMP	AMPERE	CS	CARBON STEEL	GALV	GALVANIZED	LT	LEFT			UH	UNIT HEATER			
	ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	CSP	CONCRETE SEWER PIPE	GC	GROOVED COUPLING	LVL	LEVEL			UN	UNION			
	APPROX	APPROXIMATE	CT	COURT	GFA	GROOVED FLANGE ADAPTER	LWL	LOW WATER LINE			UON	UNLESS OTHERWISE NOTED			
	APVVD	APPROVED	CTR	CENTER	GI	GALVANIZED IRON					USGS	UNITED STATES GEOLOGIC SURVEY			
C	APWA	AMERICAN PUBLIC WORKS ASSOCIATION	CU	CUBIC	GIP	GALVANIZED IRON PIPE	MAN	MANUAL	RAD	RADIUS					
	ARCH	ARCHITECTURAL	CULV	CULVERT	GJ	GRIP JOINT	MAT	MATERIAL	RC	REINFORCED CONCRETE	V	VENT / VOLT			
	ARV	AIR RELEASE VALVE	CV	CONTROL VALVE	GL	GLASS	MAX	MAXIMUM	RCP	REINFORCED CONCRETE PIPE	VAC	VACUUM			
	ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	CW	CLOCKWISE / COLD WATER	GLV	GLOBE VALVE	MCC	MOTOR CONTROL CENTER	RD	ROAD / ROOF DRAIN	VB	VACUUM BREAKER			
	ASR	AQUIFER STORAGE & RECOVERY	CY	CUBIC YARDS	GND	GROUND	MCP	MASTER CONTROL PANEL	RDOR	REDUCER	VBOX	VALVE BOX			
	ASSN	ASSOCIATION	DC	DRAIN	GPD	GALLONS PER DAY	MECH	MECHANICAL	REF	REFERENCE	VC	VERTICAL CURVE			
	ASSY	ASSEMBLY	DEFL	DEFLECTION	GPH	GALLONS PER HOUR	MET	METAL	REINF	REINFORCE(D)(ING)(MENT)	VERT	VERTICAL			
	ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS	DEQ	DEPARTMENT OF ENVIRONMENTAL QUALITY	GPM	GALLONS PER MINUTE	MFR	MANUFACTURER	RFCA	RESTRAINED FLANGE COUPLING ADAPTER	VFD	VARIABLE FREQUENCY DRIVE			
			DET	DETAIL	GPS	GALLONS PER SECOND	MGD	MILLION GALLONS PER DAY	RES	RESERVOIR	VOL	VOLUME			
			DI	DUCTILE IRON	GR	GRADE	MH	MANHOLE	RESTR	RESTRAINED	VCP	VITRIFIED CLAY PIPE			
D	ATM	ATMOSPHERE	DIA	DIAMETER	GR LN	GRADE LINE	MIN	MINIMUM	RFCA	RESTRAINED FLANGE COUPLING ADAPTER	VTR	VENT THROUGH ROOF			
	AUTO	AUTOMATIC	DIR	DIRECTION	GRTG	GRATING	MIPT	MALE IRON PIPE THREAD	RO	ROUGH OPENING					
	AUX	AUXILIARY	DIST	DISTANCE	GV	GATE VALVE	MISC	MISCELLANEOUS	RW	RIGHT-OF-WAY	W	WATER			
	AVE	AVENUE	DN	DOWN	GRVL	GRAVEL	MJ	MECHANICAL JOINT	RPBPD	REDUCED PRESSURE BACKFLOW PREVENTION DEVICE	W/	WITH			
	AVG	AVERAGE	DR	DRIVE	GYP	GYPSUM	MON	MONUMENT / MONOLITHIC			W/IN	WITHIN			
	AWWA	AMERICAN WATER WORKS ASSOCIATION	DS	DOWNSPOUT			MOT	MOTOR			W/O	WITHOUT			
			DWG	DRAWING			MP	MILEPOST	RPM	REVOLUTIONS PER MINUTE	W/W	WALL TO WALL			
			DWL	DOWEL			MSL	MEAN SEAL LEVEL	RR	RAILROAD	WD	WOOD			
			DWV	DRAIN WASTE AND VENT			MTD	MOUNTED	RST	REINFORCED STEEL	WF	WIDE FLANGE			
			DWY	DRIVEWAY					RT	RIGHT	WH	WATER HEATER			
E	B&S	BELL & SPIGOT	EA	EACH	HB	HOSE BIBB	NA	NOT APPLICABLE	SALV	SALVAGE	WI	WROUGHT IRON			
	BC	BOLT CIRCLE	ECC	ECCENTRIC	HC	HOLLOW CORE	NAVD	NORTH AMERICAN VERTICAL DATUM	SAN	SANITARY	WM	WATER METER			
	BD	BOARD	EF	EACH FACE	HDPE	HIGH DENSITY POLYETHYLENE	NC	NORMALLY CLOSED	SC	SOLID CORE	WP	WORKING POINT / WATERPROOFING			
	BETW	BETWEEN	EL	ELEVATION	HDR	HEADER	NF	NEAR FACE	SCHED	SCHEDULE	WQ	WATER QUALITY			
	BF	BOTH FACE	ENCL	ENCLOSURE	HDWE	HARDWARE	NIC	NOT IN CONTRACT	SD	STORM DRAIN	WS	WATER SERVICE			
	BFD	BACKFLOW PREVENTION DEVICE	EQ	EQUAL	HGR	HANGER	NO / NO.	NORMALLY OPEN / NUMBER	SDL	SADDLE	WT	WEIGHT			
	BFILL	BACKFILL	EQL SP	EQUALLY SPACED	HGT	HEIGHT	NOM	NOMINAL	SDR	STANDARD DIMENSION RATIO	WTP	WATER TREATMENT PLANT			
	BFV	BUTTERFLY VALVE	EQUIP	EQUIPMENT	HH	HANDHOLD	NORM	NORMAL	SECT	SECTION	WTRT	WATERTIGHT			
	BHP	BRAKE HORSEPOWER	ESMT	EASEMENT	HM	HOLLOW METAL	NRS	NON-RISING STEM	SHLDR	SHOULDER	WWF	WELDED WIRE FABRIC			
	BKGD	BACKGROUND	EW	EACH WAY	HMAC	HOT MIX ASPHALT CONCRETE	NTS	NOT TO SCALE	SHT	SHEET	WWTF	WASTEWATER TREATMENT FACILITY			
F	BLDG	BUILDING	EXC	EXCAVATE	HNDRL	HANDRAIL			SIM	SIMILAR	WWTP	WASTEWATER TREATMENT PLANT			
	BLK	BLOCK	EXIST	EXISTING	HOA	HAND-OFF-AUTO	O TO O	OUT TO OUT	SLP	SLOPE					
	BLVD	BOULEVARD	EXP	EXPANSION	HOR	HAND-OFF-REMOTE	OC	ON CENTER	SLV	SLEEVE	X SECT	CROSS SECTION			
	BM	BENCHMARK / BEAM	EXP BT	EXPANSION BOLT	HORIZ	HORIZONTAL	OD	OUTSIDE DIAMETER	SOLN	SOLUTION	XFMR	TRANSFORMER			
	BMP	BEST MANAGEMENT PRACTICES	EXP JT	EXPANSION JOINT	HP	HIGH PRESSURE / HORSEPOWER	OF	OVERFLOW / OUTSIDE FACE	SP	SOIL PIPE / SEWER PIPE					
	BO	BLOW-OFF	EXT	EXTERIOR	HPG	HIGH PRESSURE GAS	OPNG	OPENING	SPCL	SPECIAL	YD	YARD DRAIN / YARD			
	BOC	BACK OF CURB			HPT	HIGH POINT	OPP	OPPOSITE	SPEC(S)	SPECIFICATION(S)	YH	YARD HYDRANT			
	BS	BOTH SIDES			HR	HOUR	ORIG	ORIGINAL	SPG	SPACING	YR	YEAR			
	BSMT	BASEMENT			HSB	HIGH STRENGTH BOLT	OSHA	OCCUPATIONAL SAFETY AND HEALTH	SPL	SPOOL					
	BTF	BOTTOM FACE			HV	HOSE VALVE			SPRT	SUPPORT					
G	BTU	BRITISH THERMAL UNIT			HVAC	HEATING, VENTILATION, AIR CONDITIONING	OVHD	OVERHEAD	SQ	SQUARE					
	BV	BALL VALVE			HWL	HIGH WATER LINE			SQ FT	SQUARE FOOT					
	BW	BOTH WAYS			HWY	HIGHWAY			SQ IN	SQUARE INCH					
					HYD	HYDRANT			SQ YD	SQUARE YARD					
					HYDR	HYDRAULIC			SS	SANITARY SEWER					
									SST	STAINLESS STEEL					
									ST	STREET					
									STA	STATION					
									STD	STANDARD					
									STL	STEEL					
H	CFM	CUBIC FEET PER MINUTE							STOR	STORAGE					
	CFS	CUBIC FEET PER SECOND							STR	STRAIGHT					
	CHAN	CHANNEL							STRUCT	STRUCTURE / STRUCTURAL					
	CHEM	CHEMICAL							SUBMG	SUBMERGED					
	CHFR	CHAMFER							SUCT	SUCTION					
	CHKV	CHECK VALVE							SV	SOLENOID VALVE					
	CI	CAST IRON							S/W	SIDEWALK					
	CIP	CAST IRON PIPE							SWD	SIDEWATER DEPTH					
	CIPC	CAST IN PLACE CONCRETE							SWGR	SWITCH GEAR					
	CISP	CAST IRON SOIL PIPE							SYMM	SYMMETRICAL					
I	CJ	CONSTRUCTION JOINT							SYS	SYSTEM					
	CL OR C/L	CENTER LINE													
	CL2	CHLORINE													
	CLG	CEILING													
	CLJ	CONTROL JOINT													
	CLR	CLEAR													
	CLSM	CONTROLLED LOW STRENGTH MATERIAL													
	CMP	CORRUGATED METAL PIPE													
Consultant:		Sub Consultant:		Engineer's Seal:		Client / Owner:		Project Title:		01 - GENERAL		Designed By: TMS		Consor Project No.: W240758OR	
		<h1>CONDITIONAL USE PERMIT APPLICATION</h1>				CITY OF TUALATIN SW 108TH AVE WATER RESERVOIR AND PUMP STATION		GENERAL ABBREVIATIONS		01 - GENERAL		Issued On: APRIL 2025			
												Sheet:			
												01-G-003			
										Approved By: TMS		0 1/2 1 IF BAR DOES NOT MEASURE 1" DRAWING IS NOT TO SCALE			

	1	2	3	4	5	6	7
A	<u>TOPOGRAPHIC LEGEND</u>						
B	<u>EXISTING</u>	<u>PROPOSED</u>	<u>EXISTING</u>	<u>PROPOSED</u>	SCHMATIC	SCHMATIC	
C	WATERLINE ----- · 10"W · ----- ELECTRICITY (UNDERGROUND) ----- E ----- OVERHEAD UTILITY ----- OVHD ----- GAS ----- - 4"G - ----- TELEPHONE/TELEMETRY ----- T ----- CABLE TELEVISION ----- CATV ----- COMMUNICATION ----- · COM · ----- FIBER OPTIC ----- FO ----- SANITARY SEWER LINE ----- - 8"SS - ----- SANITARY SEWER FORCE MAIN ----- 6"SSFm ----- STORM DRAIN ----- 8"SD ----- DRAIN ----- D ----- CULVERT >---- 18"SD ----< ABANDONED PIPE -- -- 10"W (ABAND) -- -- DEMOLISH/ REMOVE DRAINAGE DITCH TOP TOP OF SLOPE TOE TOE OF SLOPE C ----- CUT F ----- FILL x x x x x x x x x x x x x x x BARBWIRE FENCE o o o o o o o o o o o o o o o CHAIN LINK FENCE - - - - - R/W - - - - - WOOD FENCE = = = = = R/W = = = = = TEMPORARY SILT FENCE ~ ~ ~ ~ ~ GUARDRAIL ROCK WALL [[[[[]]]]] TREE/BUSH LINE ~~~~~ WETLAND =====	12"D I W E OVHD 4"G T CATV COM FO 8"SS 6"FM 8"SD D 18"SD + + + + + t t t t t t x x x x x x x x x x x x x TOP TOE C F R/W R/W BOLLARD	MANHOLE CLEAN-OUT CATCH BASIN/FIELD INLET THRUST BLOCK VALVE AIR INJECTION ASSEMBLY BLOW-OFF ASSEMBLY (PERMANENT) BLOW-OFF ASSEMBLY (TEMPORARY) AIR RELEASE ASSEMBLY FIRE HYDRANT ASSEMBLY WATER METER FIRE DEPARTMENT CONNECTION WATER IRRIGATION VALVE PULL BOX/JUNCTION BOX COM RISER UTILITY POLE GUY WIRE LIGHT POST STREET LIGHT TRANSFORMER ELECTRICAL METER ELECTRICAL CABINET GAS METER GAS VALVE MAILBOX SIGN TREE DECIDUOUS TREE CONIFEROUS TREE TO BE REMOVED SURFACE ELEVATION WETLAND FLAG BENCHMARK IRON ROD MONUMENT BORE/ POTHOLE TEST PIT BOLLARD	SS SD W C T SS SD W C T IR IR +	WELDED JOINT FLANGED JOINT GROOVED END JOINT MECHANICAL JOINT PUSH-ON JOINT (RUBBER GASKET) FLANGED COUPLING ADAPTER DOUBLE BALL FLEXIBLE EXTENSION COUPLING FLEXIBLE COUPLING W/ THRUST RING 90° BEND UP 90° BEND DOWN TEE UP TEE DOWN LATERAL UP LATERAL DOWN CONCENTRIC REDUCER ECCENTRIC REDUCER UNION BLIND FLANGE CAP/ PLUG LONG SLEEVE FLEXIBLE COUPLING FITTING (45°) STRAINER SIGHT GLASS PRESSURE GAUGE W/ COCK PRESSURE SWITCH W/ COCK METER SLIP-ON JOINT PIPE RESTRAINED JOINT PIPE	BUTTERFLY VALVE GATE VALVE GLOBE VALVE BALL VALVE BALANCING VALVE PLUG VALVE (TOP) PLUG VALVE (SIDE) 3-WAY PLUG VALVE CHECK VALVE SWING CHECK VALVE DOUBLE CHECK ASSEMBLY BALL SWING CHECK SILENT CHECK VALVE PRESSURE REDUCING VALVE ALTITUDE CONTROL VALVE SOLENOID VALVE RELIEF VALVE NEEDLE VALVE HOSE VALVE REDUCED PRESSURE BACKFLOW PREVENTER W/ GATE VALVES HOSE BIBB	D
D	GENERAL NOTE: 1. THIS IS A STANDARD CIVIL LEGEND, NOT ALL OF THE INFORMATION SHOWN MAY BE USED ON THIS PROJECT.						

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<div>Consultant:</div> <div></div> <div>This document, ideas, and designs incorporated herein, are an instrument of professional service, and is not to be used, in whole or in part, for any other project without the written authorization of CONSOR.</div>	<div>Sub Consultant:</div>	<div>CONDITIONAL USE PERMIT APPLICATION</div>	<div>Engineer's Seal:</div>	<div>Client / Owner:</div> <div></div>	<div>Project Title:</div> <div>CITY OF TUALATIN SW 108TH AVE WATER RESERVOIR AND PUMP STATION</div>	<div>05 - CIVIL</div> <div>EXISTING CONDITIONS PLAN AND SURVEY CONTROL - 1</div>	<div>Designed By:</div> <div>TMS</div>	<div>Conсор Project No.:</div> <div>W240758OR</div>
							<div>Drawn By:</div> <div>MBE</div>	<div>Issued On:</div> <div>APRIL 2025</div>
							<div>Checked By:</div> <div>ANB</div>	<div>Sheet:</div> <div>05-C-010</div>
							<div>Approved By:</div> <div>TMS</div>	<div>0 1/2 1 IF BAR DOES NOT MEASURE 1" DRAWING IS NOT TO SCALE</div>



- NOTES:**
- 1. SURVEY WAS PERFORMED BY AKS ENGINEERING & FORESTRY IN AUGUST 2024.
 - 2. BASIS OF BEARINGS / HORIZONTAL DATUM: COORDINATES ARE BASED ON A LOCAL DATUM PLANE DERIVED FROM STATE PLANE OREGON NORTH 3601, INTERNATIONAL FOOT, NAD83(2011).
 - 3. VERTICAL DATUM: ELEVATIONS ARE BASED ON WASHINGTON COUNTY BENCHMARK NUMBER 967, LOCATED IN THE CURB ON THE WEST SIDE OF BOONES FERRY ROAD, SOUTH OF SW NORWOOD ROAD. ELEVATION - 337.52 FEET, NAVD88.

SURVEY CONTROL POINTS			
POINT NO	NORTHING	EASTING	ELEVATION

Consultant:

Sub Consultant:

Engineer's Seal:

Client / Owner:

Project Title:

05 - CIVIL

05-C-011

Designed By: TMS

Drawn By: MBE

Checked By: ANB

Approved By: TMS

Consor Project No.: W240758OR

Issued On: APRIL 2025

Sheet: 05-C-011

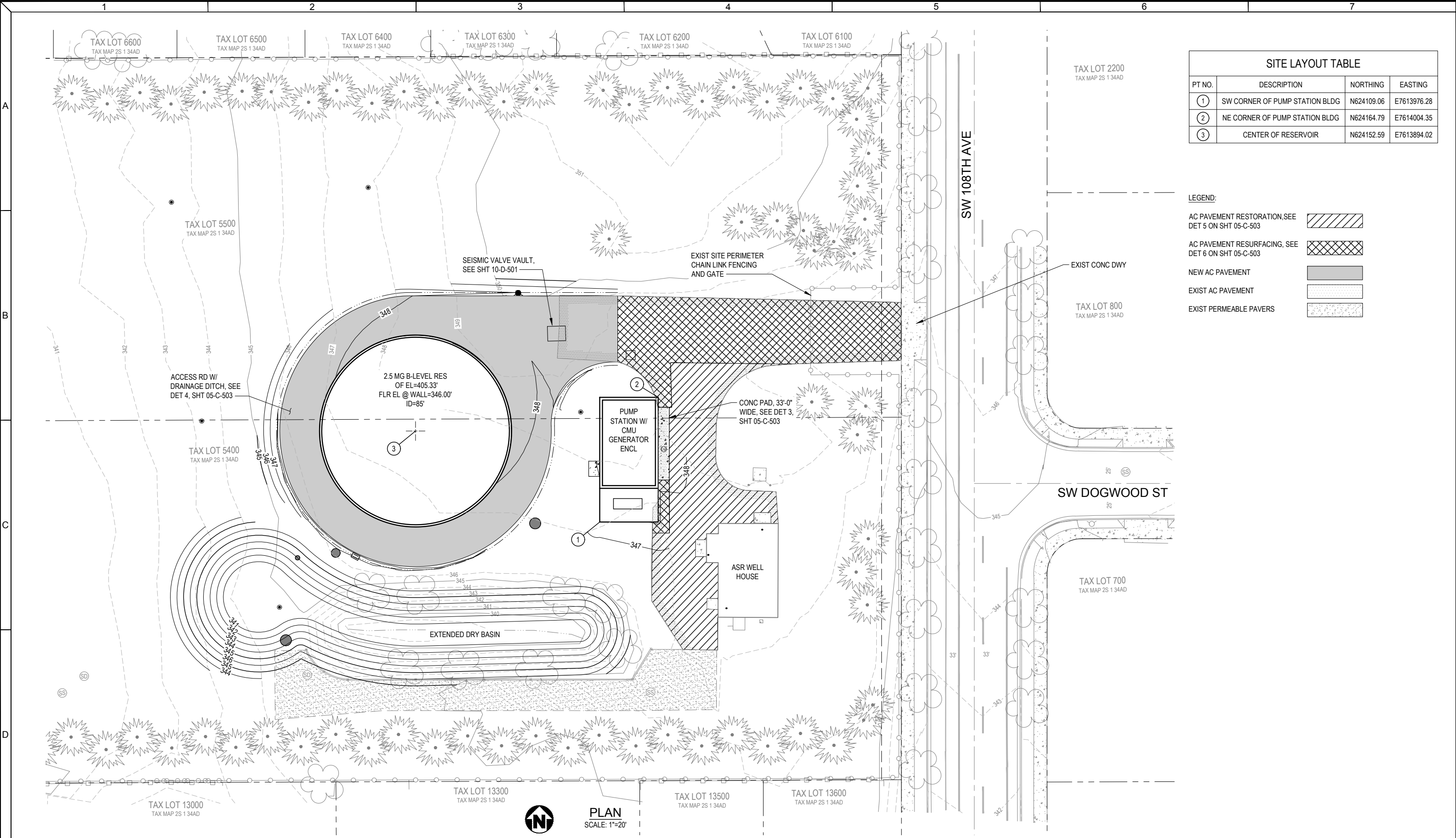
0 1/2 1 IF BAR DOES NOT MEASURE 1" DRAWING IS NOT TO SCALE

CONDITIONAL USE PERMIT APPLICATION

CITY OF TUALATIN
SW 108TH AVE WATER RESERVOIR
AND PUMP STATION

EXISTING CONDITIONS PLAN
AND SURVEY CONTROL - 2

Drawing Path and Name: A:\V\Projects\CR\Tualatin\2024\W240758OR\0012 CAD\12-5 sheets\W240758OR_05-C-011.dwg, Plotted Date: May 6, 2025 12:24 PM By: Justin Devel



SITE LAYOUT TABLE			
PT NO.	DESCRIPTION	NORTHING	EASTING
①	SW CORNER OF PUMP STATION BLDG	N624109.06	E7613976.28
②	NE CORNER OF PUMP STATION BLDG	N624164.79	E7614004.35
③	CENTER OF RESERVOIR	N624152.59	E7613894.02

LEGEND:

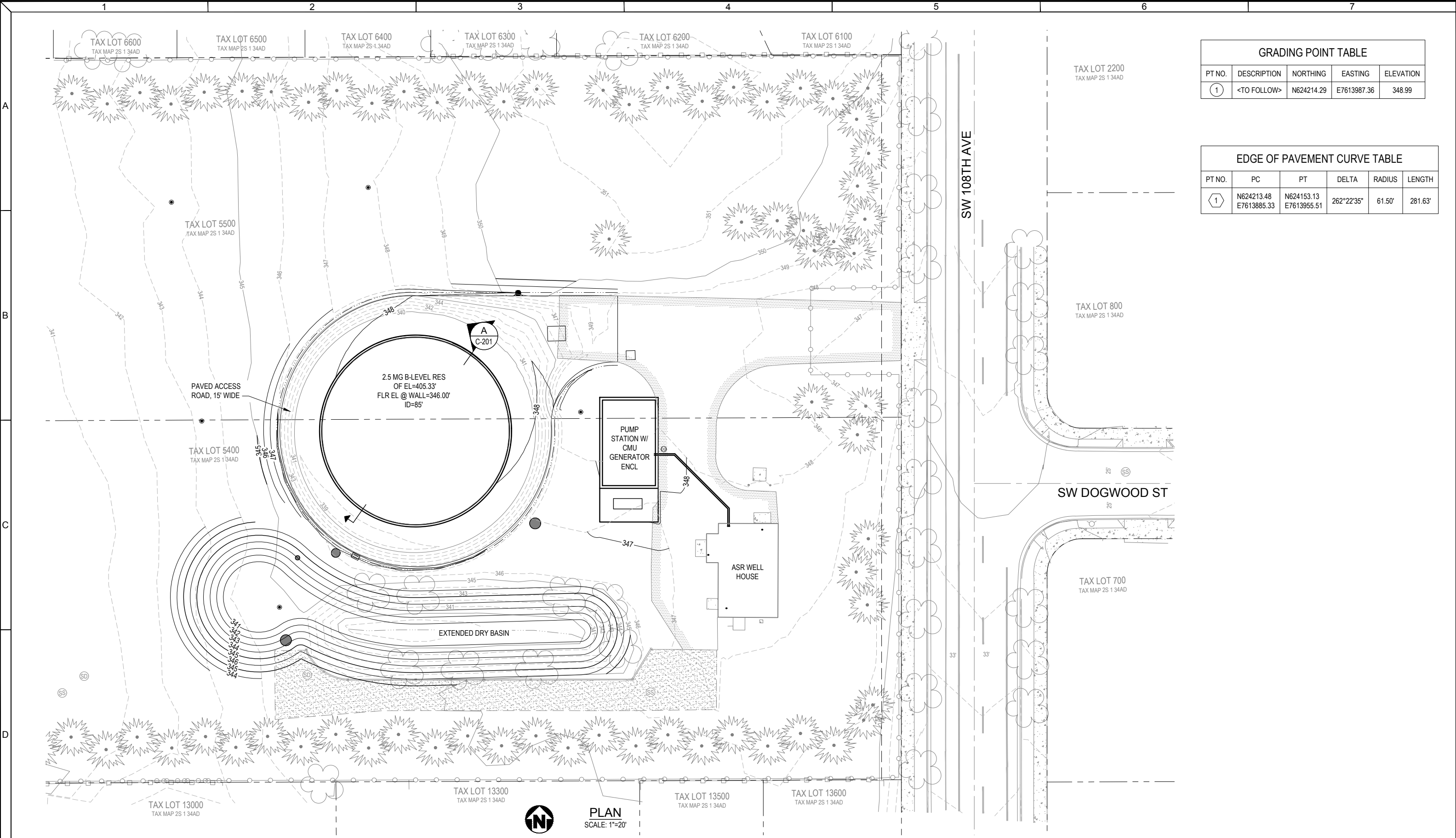
AC PAVEMENT RESTORATION, SEE DET 5 ON SHT 05-C-503

AC PAVEMENT RESURFACING, SEE DET 6 ON SHT 05-C-503

NEW AC PAVEMENT

EXIST AC PAVEMENT

EXIST PERMEABLE PAVERS



GRADING POINT TABLE				
PT NO.	DESCRIPTION	NORTHING	EASTING	ELEVATION
1	<TO FOLLOW>	N624214.29	E7613987.36	348.99

EDGE OF PAVEMENT CURVE TABLE					
PT NO.	PC	PT	DELTA	RADIUS	LENGTH
1	N624213.48 E7613885.33	N624153.13 E7613955.51	262°22'35"	61.50'	281.63'

Consultant:

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Sub Consultant:

Engineer's Seal:

Client / Owner:

Project Title:

CITY OF TUALATIN
SW 108TH AVE WATER RESERVOIR
AND PUMP STATION

05 - CIVIL

SITE GRADING PLAN

Designed By:

TMS

Drawn By:

MBE

Checked By:

ANB

Approved By:

TMS

Consor Project No.:

W240758OR

Issued On:

APRIL 2025

Sheet:

05-C-111

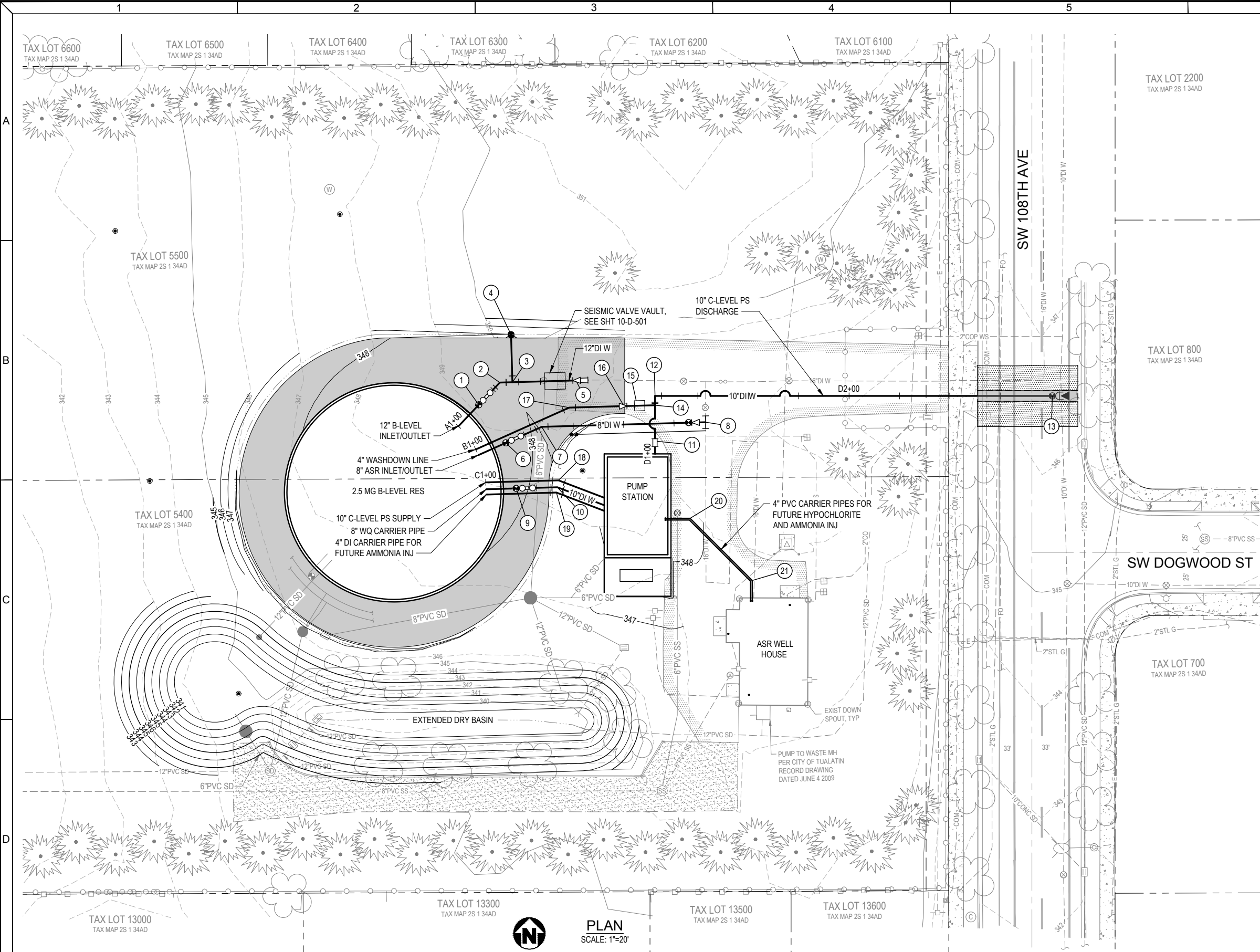
01/2

1 IF BAR DOES NOT MEASURE 1"

DRAWING IS NOT TO SCALE

CONDITIONAL USE
PERMIT APPLICATION

Drawing Path and Name: A:_V\W\Projects\OR\Tualatin\2024\w240758or\0012 CAD\112-5 sheets\W240758OR_05-C-111.dwg, Plotted Date: May 6, 2025 12:25 PM By: Justin Devel



- NOTES:
1. SEE SHEET 05-C-302 FOR SITE WATER PIPING PROFILES.
 2. CONTRACTOR SHALL POTHOLE AND VERIFY LOCATIONS, SIZES AND DEPTHS OF EXISTING UTILITIES. NOTIFY ENGINEER OR POTENTIAL CONFLICTS 72 HOURS IN ADVANCE OF WATER MAIN INSTALLATION TO ALLOW FOR CHANGES IN ALIGNMENT OR GRADE.
 3. LOCATION OF EXISTING UTILITIES ARE BASED ON INFORMATION SUPPLIED BY OTHERS AND ARE CONSIDERED APPROXIMATE.
 4. ALL PIPE SHALL BE DUCTILE IRON CLASS 52. ALL JOINTS ON PIPE, FITTINGS AND VALVES SHOWN SHALL BE RESTRAINED JOINT, UNLESS OTHERWISE NOTED.
 5. INSTALL WATER FACILITIES PER TYPICAL TRENCH SECTION, SEE DETAIL X, SHEET XX-X-XXX.
 6. WHERE HORIZONTAL AND VERTICAL BENDS ARE NOT SPECIFIED, CONTRACTOR SHALL DEFLECT PIPE TO ACHIEVE HORIZONTAL AND VERTICAL ALIGNMENTS AS SHOWN. DEFLECTION SHALL NOT EXCEED ONE-HALF OF THE MAXIMUM INSTALLED DEFLECTION RECOMMENDED BY THE PIPE MANUFACTURER.
 7. FINAL LOCATIONS FOR FIRE HYDRANTS, BLOW OFFS, AND AIR RELEASE VALVES TO BE COORDINATED IN FIELD WITH AND DETERMINED BY THE OWNER. CONTRACTOR TO PROVIDE OWNER WITH ADJUSTMENTS MADE IN FIELD AND AS BUILT.
 8. PLACEHOLDER NOTE. LOW PRESSURE HYDRANT IS INTENDED TO BE USED FOR EMERGENCY DISTRIBUTION. HYDRANT WILL NOT PROVIDE ADEQUATE PRESSURE FOR FIRE FLOWS.

WATER PIPING SCHEDULE			
ALIGN A: 12" B-LEVEL INLET/OUTLET		ALIGN C: 10" C-LEVEL PS SUPPLY	
STA A1+11 N624186.39, E7613928.63 FURNISH & INSTALL: 1-12" BFV, FLG 1-12" FLEX EXP JT, FLGxMJ	9	STA C1+10 N624152.81, E7613942.54 FURNISH & INSTALL: 1-10" GV, FLG 1-10" FLEX EXP JT, FLGxMJ	
STA A1+23 N624194.98, E7613937.22 FURNISH & INSTALL: 1-12" 45° HORIZ BEND, MJ	10	STA C1+28 N624152.81, E7613962.58 FURNISH & INSTALL: 1-10" 22.5° HORIZ BEND, MJ	
STA A1+28 N624194.98, E7613942.22 FURNISH & INSTALL: 1-12"x6" TEE, FLGxMJ 1-6" GV, FLGxMJ		ALIGN D: 10" C-LEVEL PS DISCHARGE	
STA A1+28 N624213.83, E7613942.22 FURNISH & INSTALL: 1-FH ASSY, LOW PRESSURE HYDRANT, PAINTED BLUE, SEE NOTE 8	11	STA D1+05 N624169.47, E7613998.13 FURNISH & INSTALL: 1-10" LS, MJ	
	12	STA D1+23 N624187.96, E7613998.64 FURNISH & INSTALL: 1-10" 90° DI HORIZ BEND, MJ	
STA A1+58 N624194.98, E7613972.22 CONN TO EXIST 16" DI W FURNISH & INSTALL: 1-16"x12" RDCR, MJ 1-16" LS, MJ	13	STA D2+81 N624183.56, E7614156.27 CONN TO EXIST 10" DI W FURNISH & INSTALL: 1-10" TAPPING SLV, FLG 1-10" TAPPING GV, FLGxMJ 1-TB	18 WQ SAMPLING & INJ SYS: N624155.56, E7613959.43 FURNISH & INSTALL: 1-8" 22.5° HORIZ BEND, MJ
ALIGN B: 8" ASR INLET/OUTLET		WASHDOWN LINE:	
STA B1+11 N624170.98, E7613938.93 FURNISH & INSTALL: 1-8" GV, FLG 1-8" FLEX EXP JT, FLGxMJ	14	FURNISH & INSTALL: 1-10"x2" SERVICE SADDLE	19 N624150.72, E7613958.46 FURNISH & INSTALL: 1-4" 22.5° HORIZ BEND, MJ
STA B1+26 N624176.96, E7613953.36 FURNISH & INSTALL: 1-8" 22.5° HORIZ BEND, MJ	15	FURNISH & INSTALL: WASHDOWN LINE WITH BFD, SEE DET 2, SHT 05-C-504	20 N624139.01, E7614011.20 FURNISH & INSTALL: 2-4" 45° LONG RADIUS SCHED 80 PVC HORIZ BEND, MJ
STA B1+91 N624176.96, E7614018.42 CONN TO EXIST 16" DI W FURNISH & INSTALL: 1-8" GV, MJ 1-16"x8" RDCR, MJ 1-16" TEE, MJ 1-6" BO ASSY	16	N624184.26, E7613985.88 FURNISH & INSTALL: 1-4"x2" RDCR, MJ	21 N624113.68, E7614035.15 FURNISH & INSTALL: 2-4" 45° LONG RADIUS SCHED 80 PVC HORIZ BEND, MJ
	17	N624184.26, E7613964.46 FURNISH & INSTALL: 1-4" 22.5° HORIZ BEND, MJ	
	LEGEND:		
	FULL DEPTH AC TRENCH PATCH WITH 6" T-CUT		
	GRIND & INLAY 2" DEPTH		

Consultant:

Sub Consultant:

**CONDITIONAL USE
PERMIT APPLICATION**

Engineer's Seal:

Client / Owner:

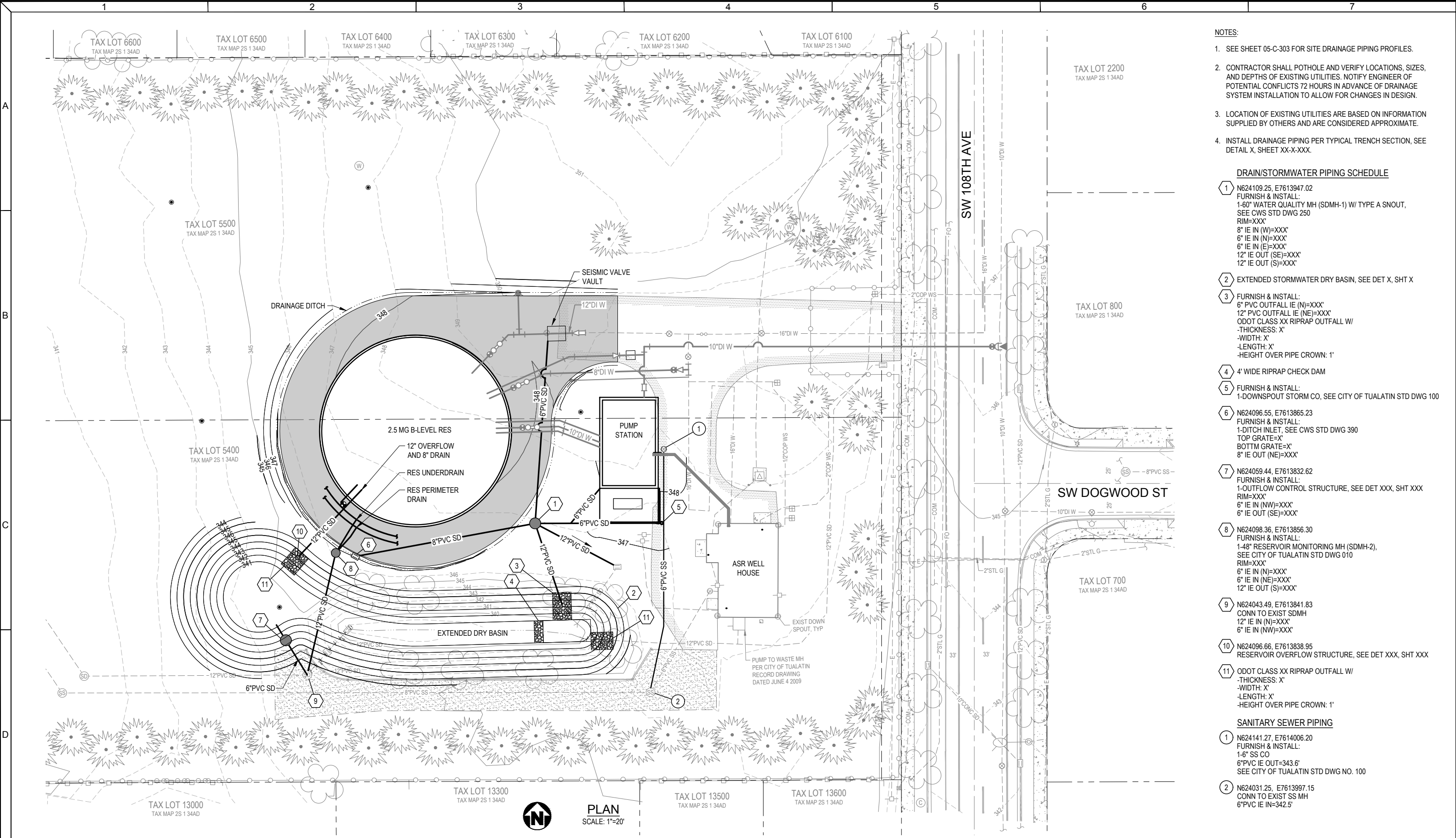
Project Title:

CITY OF TUALATIN
SW 108TH AVE WATER RESERVOIR
AND PUMP STATION

05 - CIVIL

SITE WATER PIPING PLAN

Designed By:	TMS	Consor Project No.:	W240758OR
Drawn By:	MBE	Issued On:	APRIL 2025
Checked By:	ANB	Sheet:	05-C-120
Approved By:	TMS	0 1/2 1 IF BAR DOES NOT MEASURE 1"	DRAWING IS NOT TO SCALE



- NOTES:
1.

SEE SHEET 05-C-303 FOR SITE DRAINAGE PIPING PROFILES.
2.

CONTRACTOR SHALL POTHOLE AND VERIFY LOCATIONS, SIZES, AND DEPTHS OF EXISTING UTILITIES. NOTIFY ENGINEER OF POTENTIAL CONFLICTS 72 HOURS IN ADVANCE OF DRAINAGE SYSTEM INSTALLATION TO ALLOW FOR CHANGES IN DESIGN.
3.

LOCATION OF EXISTING UTILITIES ARE BASED ON INFORMATION SUPPLIED BY OTHERS AND ARE CONSIDERED APPROXIMATE.
4.

INSTALL DRAINAGE PIPING PER TYPICAL TRENCH SECTION, SEE DETAIL X, SHEET XX-X-XXX.

DRAIN/STORMWATER PIPING SCHEDULE

1

N624109.25, E7613947.02
FURNISH & INSTALL:
1-60" WATER QUALITY MH (SDMH-1) W/ TYPE A SNOOT, SEE CWS STD DWG 250
RIM=XXX'
8" IE IN (W)=XXX'
6" IE IN (N)=XXX'
6" IE IN (E)=XXX'
12" IE OUT (SE)=XXX'
12" IE OUT (S)=XXX'

2

EXTENDED STORMWATER DRY BASIN, SEE DET X, SHT X

3

FURNISH & INSTALL:
6" PVC OUTFALL IE (N)=XXX'
12" PVC OUTFALL IE (NE)=XXX'
ODOT CLASS XX RIPRAP OUTFALL W/
-THICKNESS: X'
-WIDTH: X'
-LENGTH: X'
-HEIGHT OVER PIPE CROWN: 1'

4

4' WIDE RIPRAP CHECK DAM

5

FURNISH & INSTALL:
1-DOWNSPOUT STORM CO, SEE CITY OF TUALATIN STD DWG 100

6

N624096.55, E7613865.23
FURNISH & INSTALL:
1-DITCH INLET, SEE CWS STD DWG 390
TOP GRATE=X'
BOTTM GRATE=X'
8" IE OUT (NE)=XXX'

7

N624059.44, E7613832.62
FURNISH & INSTALL:
1-OUTFLOW CONTROL STRUCTURE, SEE DET XXX, SHT XXX
RIM=XXX'
6" IE IN (NW)=XXX'
6" IE OUT (SE)=XXX'

8

N624098.36, E7613856.30
FURNISH & INSTALL:
1-48" RESERVOIR MONITORING MH (SDMH-2), SEE CITY OF TUALATIN STD DWG 010
RIM=XXX'
6" IE IN (N)=XXX'
6" IE IN (NE)=XXX'
12" IE OUT (S)=XXX'

9

N624043.49, E7613841.83
CONN TO EXIST SDMH
12" IE IN (N)=XXX'
6" IE IN (NW)=XXX'

10

N624096.66, E7613838.95
RESERVOIR OVERFLOW STRUCTURE, SEE DET XXX, SHT XXX

11

ODOT CLASS XX RIPRAP OUTFALL W/
-THICKNESS: X'
-WIDTH: X'
-LENGTH: X'
-HEIGHT OVER PIPE CROWN: 1'

SANITARY SEWER PIPING

1

N624141.27, E7614006.20
FURNISH & INSTALL:
1-6" SS CO
6"PVC IE OUT=343.6'
SEE CITY OF TUALATIN STD DWG NO. 100

2

N624031.25, E7613997.15
CONN TO EXIST SS MH
6"PVC IE IN=342.5'

Consultant:

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Sub Consultant:

Engineer's Seal:

Client / Owner:

Project Title:

CITY OF TUALATIN
SW 108TH AVE WATER RESERVOIR
AND PUMP STATION

05 - CIVIL

SITE DRAINAGE PIPING PLAN

Designed By:
TMS

Drawn By:
MBE

Checked By:
ANB

Approved By:
TMS

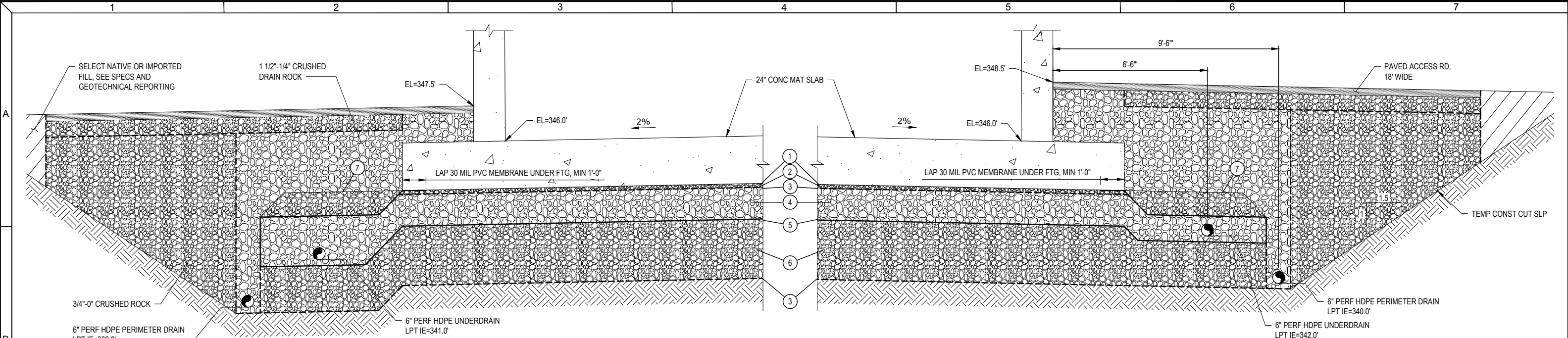
Consor Project No.:
W240758OR

Issued On:
APRIL 2025

Sheet:
05-C-121

0 1/2 1 IF BAR DOES NOT MEASURE 1"
DRAWING IS NOT TO SCALE

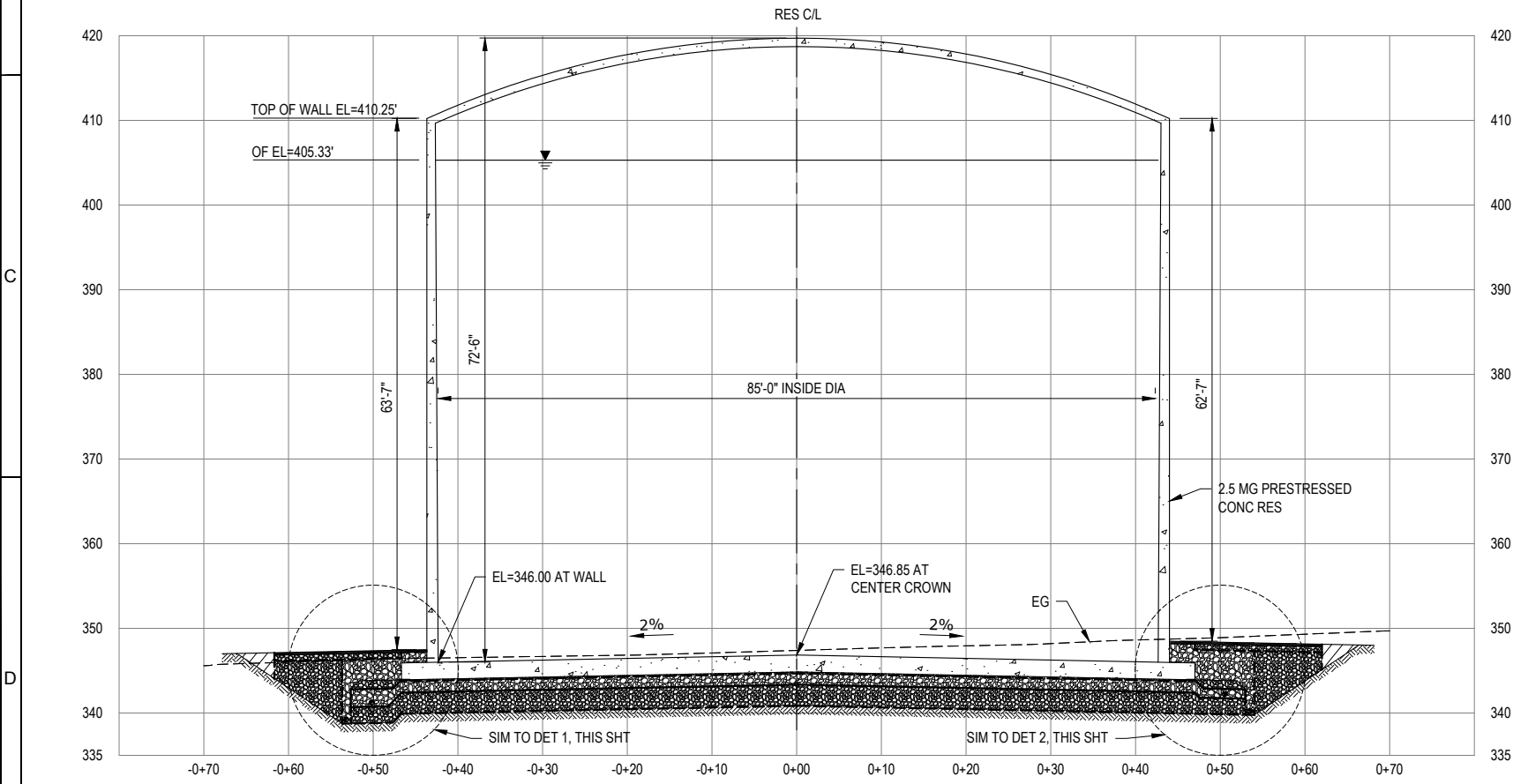
CONDITIONAL USE
PERMIT APPLICATION



1 SUBGRADE DRAINAGE AND BACKFILL LPT
SCALE: 1/2"=1'-0"

2 SUBGRADE DRAINAGE AND BACKFILL HPT
SCALE: 1/2"=1'-0"

- NOTES:
- 1. CAP UNDERDRAIN AND PERIMETER DRAIN AT HIGH POINTS AND SLOPE AS SHOWN ON 10-D-100 IN EACH DIRECTION AROUND THE RESERVOIR TO THE LOW POINT. ROUTE TO MONITORING MANHOLE.
 - 2. OBTAIN GEOTECHNICAL ENGINEERS APPROVAL OF FINAL SUBGRADE PRIOR TO PLACEMENT OF LEVELING COURSE, GEOTEXTILE, PVC MEMBRANE, CRUSHED DRAIN ROCK, AND CRUSHED ROCK.
 - 3. ALL CUT SLOPES TO BE EVALUATED AND APPROVED BY GEOTECHNICAL ENGINEER. TEMPORARY CONSTRUCTION CUT SLOPES SHALL NOT EXCEED 1.5H:1V.
- RESERVOIR SUBGRADE KEY NOTES
- 1 6 MIL POLYETHYLENE SHEETING UNDER ENTIRE MAT SLAB
 - 2 3/4"-0" CRUSHED ROCK LEVELING COURSE, MIN 2" THK
 - 3 MIRAFI 140N GEOTEXTILE OR APPVD EQ
 - 4 1 1/2"-1/4" CRUSHED DRAIN ROCK, 16" THK
 - 5 30 MIL PVC MEMBRANE SHEETING BETWEEN LAYERS OF MIRAFI 1160N GEOTEXTILE PADDING OR APPVD EQ
 - 6 3/4"-0" CRUSHED ROCK, MIN 30" THK
 - 7 3/4"-0" CRUSHED ROCK, 5' SPAN, 12" THK, TO BE PROVIDED ADJACENT TO FOOTING TO ALLOW FOR SECURING OF FOOTING FORM SUPPORT STAKES.



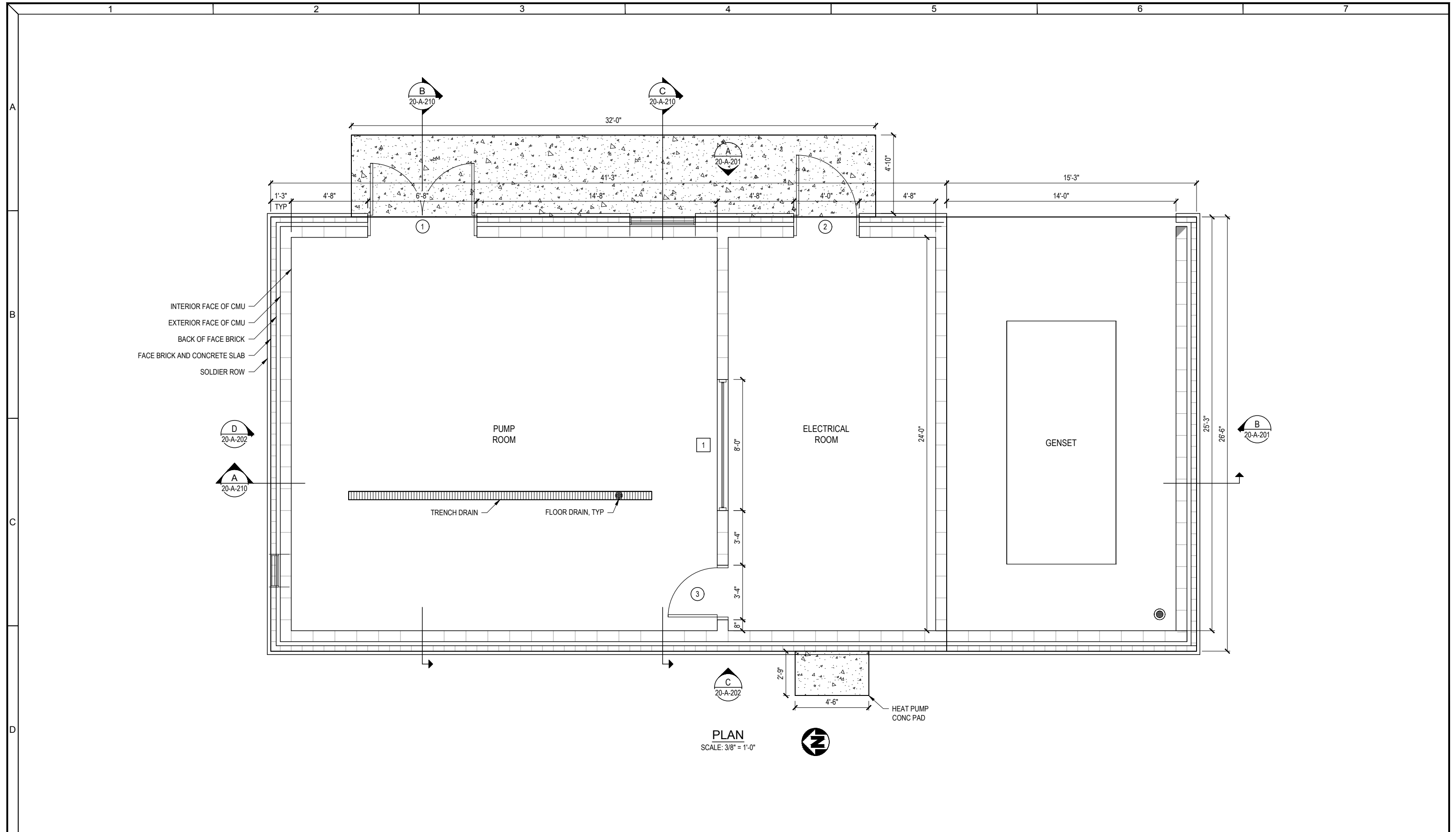
A RESERVOIR SECTION
C-100 SCALE: 1"=10' HORIZ, 1"=10' VERT

Consultant: 	Sub Consultant:	Engineer's Seal:	Client / Owner: 	Project Title: CITY OF TUALATIN SW 108TH AVE WATER RESERVOIR AND PUMP STATION	PERMIT RESERVOIR SECTION AND DETAILS	Designed By: TMS Drawn By: MBE Checked By: ANB Approved By: TMS	Consort Project No.: W240758OR Issued On: APRIL 2025 Sheet: 05-C-201 0 1/2 1 IF BAR DOES NOT MEASURE 1" DRAWING IS NOT TO SCALE
CONDITIONAL USE PERMIT APPLICATION							

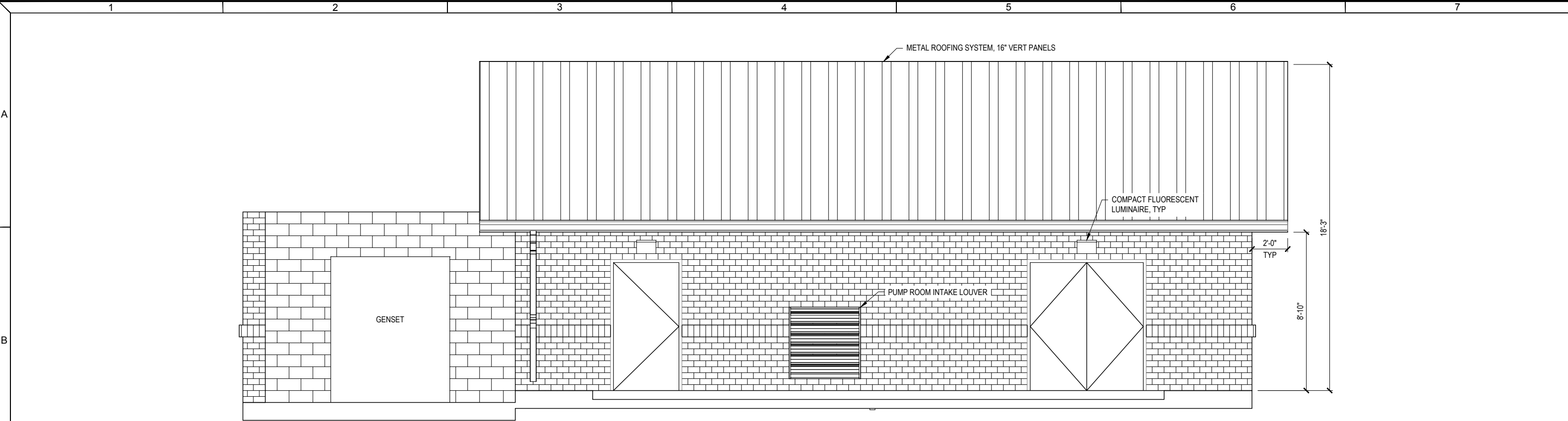
A	1		2	
	Section I - Governing Codes			
	2019 OFC, OESC, OPSC, OSSC			
	2019 OMSC, OEESC (ASHRAE 90.1-2019)			
	Section II - Building "Construction" Data			
	Type of Construction		Type VB - CMU, Metal & Wood	
	Maximum Building Height		15 feet 10 inches	
B	Maximum Allowable Height		35 feet	
	Number of Stories		1 story	
	Allowable Number of Stories		2 story	
	Basement		No	
	Total Floor Area Provided		Pump Station=598 square feet Pump Room = 467 square feet Electrical Room = 131 square feet	
	Minimum Required Property Setbacks*			
	Front (West)		15 feet	
	Side (North)		5 feet	
	Back (East)		15 feet	
Side (South)		5 feet		
*Washington County				
Section III - Building "Occupancy" Data				
C	Building Occupancy Classification Group(s)		U	
	Occupancy Classification Group by Floor		U	
	Occupancy Classification Group by Room		U	
	Well Room		U	
	Electrical Room		U	
	Accessory or Incidental Use Areas		N/A	
	Total Occupant Load by Floor		1	
	Total Occupant Load for Each Room		1	
	Total Occupant Load for Each Occupancy Group		N/A	
	Section IV - Building Area Data "Actual" and "Allowable"			
D	Section IV - Building Area Data "Actual" and "Allowable"		Pump Station = 598 square feet	
	Allowable Base Area (OSSC Table 503)		8,500 square feet (Type VB, Group U)	
	Building Frontage		See Sheet PS-A-2, Non-Sprinklered	
	Section V - "Fire Resistive" Building Elements			
	Separation of Occupancies		0 hours (U, Non-Sprinklered)	
	Section VI - Building "Exiting"			
	Maximum Floor Area Allowance Per Occupant		N/A - Not Customarily Occupied	
	Exits Required in Each Room or Area		1	
	Exits Provided in Each Room or Area		1	
	Exits Required per Floor		1	
	Exits Provided per Floor		1	
	Exit Width Required per Exit		32 inches	
	Minimum Corridor Exit Width Required		30 inches	
	Emergency Exit Illumination		See Sheets PS-E-3	
	Exit Sign Layout Plan		See Sheets PS-E-3	
	Section VII - Building "Fire Detection and Suppression"			
	Smoke Detection/Fire Alarm System Req'd		No	
	Smoke Detection/Fire Alarm System Provided		No	
	Type of System		N/A	
	Areas Protected		N/A	
	Sprinkler System Req'd		No, per OSSC 903.2.11 Exemptions	
	Standpipe System Req'd		No	
	Number of Fire Dept Vehicle Accesses		1	
	Fire Extinguisher Locations		See Sheets PS-A-2	

Section VIII - Occupancy Ventilation Requirements	
Not required for pump room or electrical room	
Section IX - Energy Code Requirements	
Building is enclosed space, U occupancies.	
Building Unit Insulation Values (Prescriptive Building Envelope Compliance Path: ASHRAE 90.1-2019)	
Skylights	U-0.50 (Max)
Doors: Swinging, opaque	U-0.37 (Max)
Roof: Attic and other	R-49 Batt (Min)
Walls: Above ground-CMU	R-9.5ci (Min)
Floors: Mass (exposed to exterior)	R-14.6ci (Min)
Slab-on-Grade Floors: Unheated slab	R-15 for 24 inches
Lighting Layout	See Sheet E-C6
Envelope Compliance Certified via COMcheck	
Section X - Hazardous Materials	
Hazardous Materials Present	No
Section XI - Accessibility	
Exterior Route of Travel - See Sheets PS-A-1	
Facility is for equipment access only and does not require accessibility	
Section XII - Plumbing Fixture Count Requirements	
Not Applicable - this remotely monitored station is "not customarily occupied"	
Section XIII - Underground and Pad mounted Transformers	
See Sheets E-C1	
Section XIV - Special Inspection, Structural Observation	
-Required Structural Inspection requirements are indicated on PS-S-2 Sheet and Specifications	
-Structural Observation requirements are indicated on PS-S-2 Sheet and Specifications	
-Deferred Submittals:	
NR	
Section XV - Room Specific Requirements	
Not Applicable -This remotely monitored station is "not customarily occupied"	

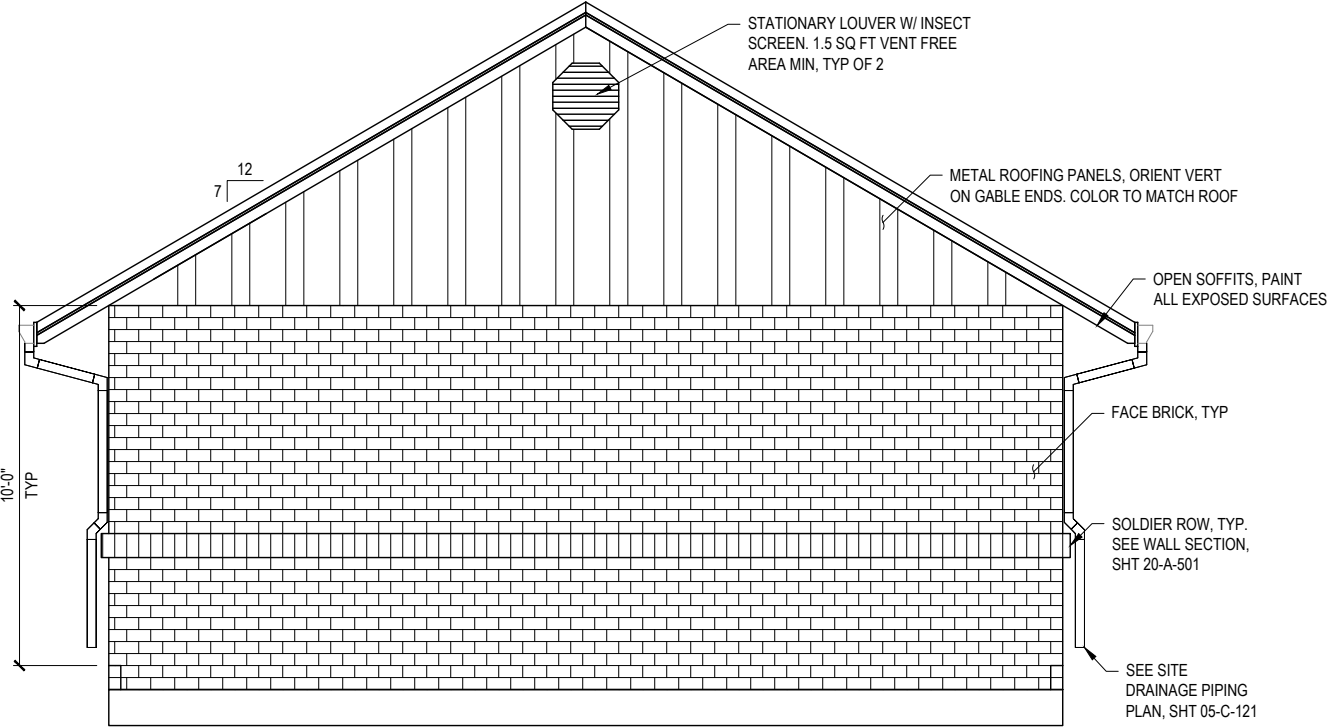
REVISED MATERIAL FINISH SCHEDULE			
ITEM	FINISH	COLOR	REMARKS
EXTERIOR WALLS	CMU FACTORY COLOR, COATING SYSTEM 306	NATURAL	SPLIT FACE CMU
ROOFING	FACTORY FINISH	TBD	METAL STANDING SEAM ROOFING SYSTEM
MISCELLANEOUS METALS INTERIOR/EXTERIOR	COATING SYSTEM 101	PER SECTION SECTION 10 14 10 - IDENTIFYING DEVICES	PIPING
WOOD, ARCHITECTURAL FEATURES	COATING SYSTEM 303	TBD	MATCH FACTORY LOUVER COLOR</





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							<div>Drawn By:</div> <div>JLC</div>	<div>Issued On:</div> <div>APRIL 2025</div>
							<div>Checked By:</div> <div>ANB</div>	<div>Sheet:</div> <div>20-A-101</div>
							<div>Approved By:</div> <div>AMB</div>	<div>0 1/2 1 IF BAR DOES NOT MEASURE 1"</div> <div>DRAWING IS NOT TO SCALE</div>

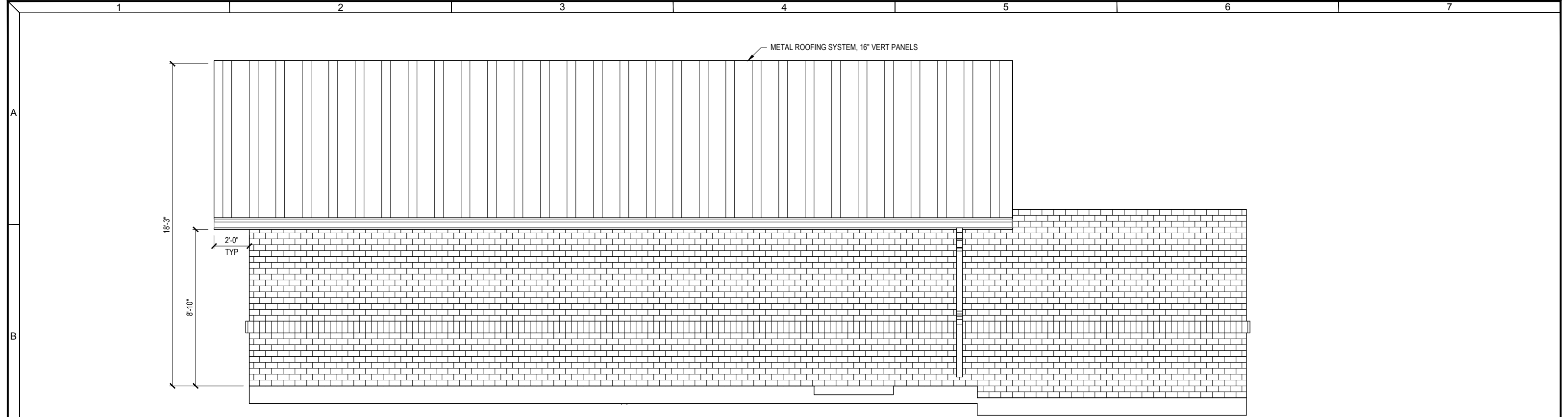


A EAST ELEVATION
20-A-101 SCALE: 3/8" = 1'-0"

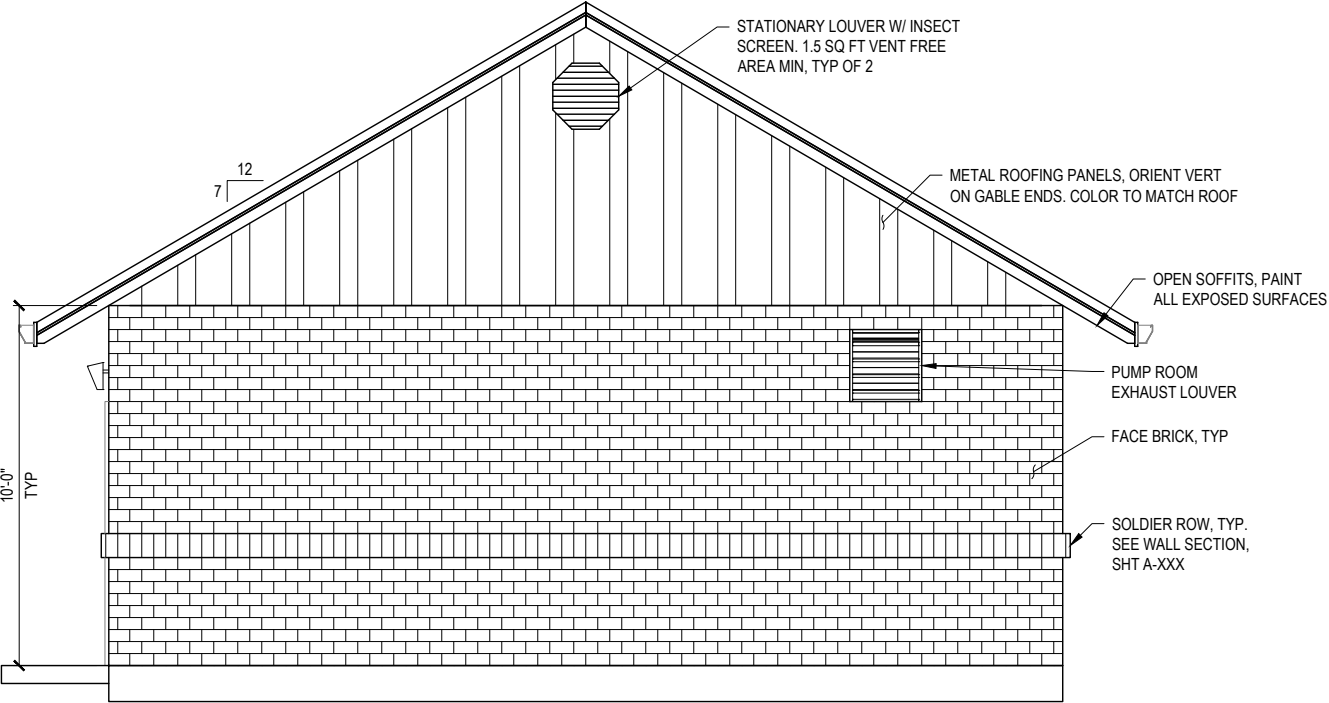


B SOUTH ELEVATION
20-A-101 SCALE: 3/8" = 1'-0"

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							Drawn By: JLC	Issued On: APRIL 2025
							Checked By: ANB	Sheet: 20-A-201
							Approved By: AMB	<div><div>012</div><div>1 IF BAR DOES NOT MEASURE 1" DRAWING IS NOT TO SCALE</div></div>



C WEST ELEVATION
20-A-101 SCALE: 3/8" = 1'-0"



D NORTH ELEVATION
20-A-101 SCALE: 3/8" = 1'-0"