PLUMBING NOTES

- 1. THE WORK COVERED CONSISTS OF FURNISHING ALL LABOR AND MATERIALS NECESSARY TO INSTALL, COMPLETE AND READY FOR CONTINUOUS OPERATION, THE PLUMBING SYSTEMS, APPARATUS AND EQUIPMENT FOR THIS PROJECT.
- 2. ALL EQUIPMENT AND MATERIALS FURNISHED UNDER THE PLUMBING SUB-CONTRACT, LABOR AND TESTING PERFORMED HEREIN SHALL BE IN COMPLETE ACCORDANCE WITH THE STATE BUILDING CODE, LOCAL FUEL GAS AND PLUMBING CODES, ALL LOCAL CODES AND REGULATIONS, NATIONAL FIRE PROTECTION ASSOCIATION, INSURANCE REGULATIONS AND REQUIREMENTS GOVERNING SUCH WORK.
- 3. ANY AND ALL PERMITS REQUIRED FOR INSTALLATION OF ANY MATERIAL SHALL BE OBTAINED AS PART OF THE WORK OF THE SPECIFICATION INCLUDING ALL FEES OR EXPENSES INCURRED.
- 4. FOR PLUMBING SCHEDULES, REFER TO DRAWING POO.01.
- 5. FOR PLUMBING DETAILS, REFER TO DRAWINGS PO3.01.
- 6. ALL PRODUCTS USED AS PART OF THE POTABLE WATER SYSTEM WHERE THE INTENDED PURPOSE IS TO DELIVER OR CONVEY POTABLE WATER FOR HUMAN CONSUMPTION SHALL BE LEAD FREE AND CONFORM TO THE LATEST "LEAD FREE" LAW.
- 7. WHERE WATER PIPING IS SHOWN DROPPING INTO PLUMBING CHASES WITH SIZES NOTED, THAT SIZE SHALL BE CARRIED FULL LENGTH THROUGH THE CHASE. REFER TO PLUMBING FIXTURE SCHEDULE ON THIS DRAWING FOR INDIVIDUAL FIXTURE CONNECTION SIZES.
- 8. UNLESS OTHERWISE NOTED, ALL HORIZONTAL DRAINAGE PIPING WHICH IS 3" OR LESS IN DIAMETER SHALL PITCH OF NOT LESS THAN 1/4" PER FOOT AND ALL HORIZONTAL DRAINAGE PIPING WHICH IS 4" OR LARGER IN DIAMETER SHALL PITCH OF NOT LESS THAN 1/8" PER FOOT.
- 9. ALL BELOW FLOOR PIPING THAT INTERSECTS A GRADE BEAM REQUIRES COORDINATION WITH STRUCTURAL.
- 10. PROVIDE ALL FLOOR CLEANOUTS WITH HUB AND SPIGOT; LEAD AND OAKUM JOINTS FROM CLEANOUT TO AND INCLUDING CONNECTION TO SANITARY OR STORM DRAIN.
- 11. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND HEIGHT OF ALL PLUMBING FIXTURES.
- 12. MISCELLANEOUS DISCREPANCIES OR OMISSIONS WHICH MIGHT APPEAR ON THE PLANS OR SPECIFICATIONS WILL NOT RELIEVE THE PLUMBING SUB-CONTRACTOR OF CODE COMPLIANCE.
- 13. ALL FLOOR DRAINS SHALL BE PROVIDED WITH A TRAP PRIMER CONNECTION. CONTRACTOR SHALL PROVIDE ALL ASSOCIATED EQUIPMENT NECESSARY TO PROVIDE A COMPLETE SYSTEM.
- 14. PROVIDE CLEANOUTS AT ALL CHANGE OF DIRECTIONS FOR STORM AND SANITARY/WASTE PIPING.
- 15. PROVIDE DANDY CLEANOUTS AT ALL EXPOSED STORM AND SANITARY/WASTE PIPING 18 INCHES (APPROXIMATELY) ABOVE FINISHED FLOOR WHERE PIPING GOES BELOW FINISHED FLOOR/GRADE.
- 16. PROVIDE WALL CLEANOUTS WITH ACCESS PANELS AT ALL STORM AND SANITARY/WASTE PIPING WITHIN PIPE CHASES OR WALLS.
- 17. HANDICAPPED ACCESSIBLE FIXTURES SHALL BE IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES AND THE RULES AND REGULATIONS OF THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD. WHERE THE TWO STANDARDS DIFFER, THE MORE STRINGENT SHALL APPLY.
- 18. ALL INTERIOR BURIED DOMESTIC WATER PIPING, NON-POTABLE WATER PIPING, TEMPERED WATER PIPING OR AIR PIPING SHALL BE SOFT ROLLED "K" COPPER COIL AND BE PROTECTED WITH A HIGH DENSITY RUBBER INSULATION. FITTINGS SHALL NOT BE PERMITTED IN OR UNDER SLAB. PROVIDE SLAB PENETRATIONS WITH SLEEVE AND FIRE STOPPING.

PLUMBING DEMOLITION NOTES

- 1. UNLESS OTHERWISE NOTED, ALL EXISTING PLUMBING SYSTEMS WITHIN HATCH MARKS (COLD WATER, HOT WATER, HOT WATER RETURN, SANITARY, RAIN LEADERS, ETC) AND ASSOCIATED EQUIPMENT IS TO BE DEMOLISHED OR SALVAGED. REMOVE THE EQUIPMENT TO BE DEMOLISHED OR SALVAGED PER SECTION 02050. ALL CONTROL DEVICES ASSOCIATED WITH THE DEMOLISHED EQUIPMENT SHALL BE REMOVED.
- 2. NO PIPING OR EQUIPMENT INDICATED FOR DEMOLITION WILL BE REUSED OR SALVAGED UNLESS SPECIFICALLY NOTED AS SUCH. ALL EQUIPMENT REMOVED SHALL BE REMOVED FROM SITE AND PROPERLY DISPOSED OF, PRIOR TO REMOVAL OF EQUIPMENT COORDINATE WITH OWNER FOR ANY EQUIPMENT THE OWNER WILL KEEP.
- 3. EXISTING EQUIPMENT INDICATED ON THE DEMOLITION PLANS ARE BASED ON SITE OBSERVATIONS AND IT IS NOT THE INTENTION OF THESE DRAWINGS TO SHOW ALL EQUIPMENT AND MATERIALS TO BE DISCONNECTED AND/OR REMOVED.

<u>SYMBOL</u>	ABBREVIATION	DESCRIPTION
	ETR	LIGHT LINE INDICATES EXISTING PIPING TO REMAIN
	RE	REMOVE EXISTING PIPING
€	CTE	CONNECT TO EXISTING
XX	C&C	CUT & CAP
		BELOW FLOOR PIPING (INDICATED AS DOUBLE LINEWORK
	CW	COLD WATER
	HW	HOT WATER
	HWR	HOT WATER RECIRCULATION
NPCW	NPCW	NON-POTABLE COLD WATER
NPHW	NPHW	NON-POTABLE HOT WATER
	S or W	SOIL OR WASTE
		ACID WASTE
AW	AW	
KW	KW	KITCHEN WASTE
	V	VENT
AV	AV	ACID VENT
GTV	GTV	GAS TRAIN VENT
	RW	RAIN WATER CONDUCTOR
OFD	OFD	STORM WATER OVER FLOW DRAINAGE
G	G	NATURAL GAS
$\overline{}$	HTI / TMC	HEAT TRACE AND INSULATE
	CONT	CONTINUATION
 0	UP	PIPE RISE OR UP
 ə	DN	PIPE DROP OR DOWN
	TEE	PIPE TEE
→ ->>-	SOV	SHUT-OFF VALVE
▼		GAS COCK
•	PRV	PRESSURE REDUCING VALVE
	CV	CHECK VALVE
₽	BVA	BALANCING VALVE ASSEMBLY
	W & T	WASTE & TRAP
<u></u>	CO	CLEANOUT PLUG
	FCO	FLUSH FLOOR CLEANOUT
———અ	DCO	DANDY CLEANOUT
		CAPPED PIPE
		ARROW INDICATES DIRECTION OF FLOW
.01		ARROW INDICATES DIRECTION OF SLOPE
——————————————————————————————————————		UNION
×	PA	PIPE ANCHORS
	PGD	PIPE GUIDES
+	НВ	HOSE BIBB
+	WH	WALL HYDRANT
1		DIAGRAM NO. & DWG. NO. REFERENCE
P-1	CD "^"	FLOOD DDAIN & TYPE
<u> </u>	FD "A"	FLOOR DRAIN & TYPE
	RD "A"	ROOF DRAIN & TYPE
-K1-2 0	OED	OPEN END DRAIN (WITH CHECK VALVE)
	BFP/RPZ	BACKFLOW PREVENTER/REDUCED PRESSURE ZONE ASS
WM	WM	WATER METER
	T	THERMOMETER
φ	PG	PRESSURE GAUGE WITH PETCOCK
¾	T&P	TEMPERATURE AND PRESSURE RELIEF VALVE
<u>n</u>	SA	SHOCK ABSORBER WITH SHUT-OFF VALVE
수		VACUUM RELIEF VALVE
\$	DGT	DUAL-OUTLET GAS TURRET
▼	MGV	MASTER GAS VALVE CABINET

PLUMBING LE	GEND	
	ABBREVIATION	DESCRIPTION
	WH-1	WATER HEATER & NUMBER
	SS	SOIL STACK
	VS	VENT STACK
	VTR	VENT THRU ROOF
	INV	INVERT
	TMV	THERMOSTATIC MIXING VALVE
	TW	
	TYP	TEMPERED WATER (70°F) TYPICAL
	NTS AFF	NOT TO SCALE ABOVE FINISHED FLOOR
	LPC	LIMIT OF PLUMBING CONTRACT
	GC	GENERAL CONTRACTOR
	FPC	FIRE PROTECTION CONTRACTOR
	PC	PLUMBING CONTRACTOR
	EC LIVAC	ELECTRICAL CONTRACTOR
	HVAC	HVAC CONTRACTOR
	LPC	LIMIT OF PLUMBING CONTRACT
	WC	WATER CLOSET
	UR	URINAL
	LAV	LAVATORY
	MR	MOP RECEPTOR
	SHR	SHOWER
	DF	DRINKING FOUNTAIN
	SK	SINK
	F & I	FURNISH & INSTALL
	S=.01	SLOPE = 1/8" PER FOOT
	S=.02	SLOPE = 1/4" PER FOOT
	NO	NORMALLY OPEN
	NC	NORMALLY CLOSED
	F.F.E.	FINISHED FLOOR ELEVATION



SHEET NO.

	OIL FIRED WATER HEATER SCHEDULE									
DESIGNATION	MANUFACTURER	MODEL	MODEL LOCATION	GALS.	RECOVERY		GPH #2	OIL CONN.	FLUE CONN.	REMARKS
J 20:01 # 11:01.		1110022			G.P.H.	△ TEMP °F	FUEL ÖIL	SIZE	SIZE	
9DWH-1	AO SMITH	COF-199*	ADMIN BLDG	86	191	100	1.42	1/2"	8"	1

* MANUFACTURERS NAMES AND MODEL NUMBERS ARE SHOWN ONLY TO REPRESENT TYPE, STYLE AND LEVEL OF QUALITY EXPECTED, REFER TO SPECIFICATIONS FOR ACCEPTABLE EQUAL MANUFACTURERS.

	ELECTRIC WATER HEATER SCHEDULE										
DESIGNATION	MANUFACTURER	MODEL	LOCATION	GALS.	RECO	OVERY TEMP *F	KW	VOLTS	PHASE	HZ.	REMARKS
5DWH-1	A.O. SMITH	DRE-120-15	CHEMICAL BLDG	120	61	100	15	480	3	60	_
9DWH-2	A.O. SMITH	ENT-30	ADMIN BLDG	30	48	100	4.5	208	1	60	SERVICES LAB SYSTEMS

* MANUFACTURERS NAMES AND MODEL NUMBERS ARE SHOWN ONLY TO REPRESENT TYPE, STYLE AND LEVEL OF QUALITY EXPECTED, REFER TO SPECIFICATIONS FOR ACCEPTABLE EQUAL MANUFACTURERS.

	CIRCULATING PUMP SCHEDULE											
DESIGNATION	LOCATION	OCATION WATER HEATER MODEL CAPACITY HEAD TYPE ELECTRICAL REQUIREMENTS		,	REMARKS							
DESIGNATION LOCATION	LOCATION	SERVED	MODEL	(GPM)	(FEET)	TIFL	RPM	HP	VOLTS	Φ	NEWANNS	
5.DWP-1	MECH ROOM	5DWH-1	TACO 006B	2	6	INLINE	3250	1/40	115	1	SERVES 120° HW SYSTEM	
9.DWP-1	ADMIN BLDG	5DWH-1	TACO 006B	2	6	INLINE	3250	1/40	115	1	SERVES 120° HW SYSTEM	
9.DWP-2	ADMIN BLDG	5D W H-1	TACO 006B	2	6	INLINE	3250	1/40	115	1	SERVES 120° HW LAB SYSTEM	

* MANUFACTURERS NAMES AND MODEL NUMBERS ARE SHOWN ONLY TO REPRESENT TYPE, STYLE AND LEVEL OF QUALITY EXPECTED, REFER TO SPECIFICATIONS FOR ACCEPTABLE EQUAL MANUFACTURERS.

			Р	LUN	1BIN	IG F	IXT	URE	SCHEDULE
DESIGNATION	NATION FIXTURE DESCRIPTION CONNECTION SIZE W1				V	NPW1	NPHW1	REMARKS	
WC-1	WATER CLOSET	1"	_	_	4"	2"	-	-	WALL HUNG — CARRIER SUPPORTED
WC-1A	WATER CLOSET	1"	_	_	4"	2"	_	-	WALL HUNG — CARRIER SUPPORTED
UR-1	URINAL	3/4"	_	_	2"	2"	_	-	WALL HUNG — CARRIER SUPPORTED
LAV-1	LAVATORY	1/2"	1/2"	_	2"	2"	-	-	WALL HUNG — CARRIER SUPPORTED
LAV-1A	LAVATORY	1/2"	1/2"	_	2"	2"	_	-	WALL HUNG - CARRIER SUPPORTED
KS-1	KITCHEN SINK	1/2"	1/2"	-	2"	2"	_	-	DROP IN
SS-1	JANITOR SINK	1/2"	1/2"	_	3"	2"	_	-	FAUCET SHALL HAVE INTEGRAL CHECK VALVES
SH-1	SHOWER	1/2"	1/2"	-	3"	2"	-	-	-
SH-1A	SHOWER	1/2"	1/2"	_	3"	2"	-	-	-
НВ	HOSE BIBB	1/2"	-	-	-	-	-	-	-
EWU-1	EMERGENCY SHOWER/EYEWASH	-	-	1 1/4"	-	_	_	-	INTERIOR MOUNTED, CORROSION RESISTANT, EMERGENCY SHOWER/EYEWASH (COMBINATION UNIT) WITH HORN, STROBE AND FLOW SWITCH
EWU-2	EMERGENCY SHOWER/EYEWASH	-	_	1 1/4"	_	_	_	-	EXTERIOR MOUNTED, CORROSION RESISTANT, EMERGENCY SHOWER/EYEWASH (COMBINATION UNIT) WITH HORN, STROBE AND FLOW SWITCH

	SUMP PUMP SCHEDULE										
DESIGNATION	LOCATION	MODEL	CAPACITY (GPM)	HEAD (FEET)	TYPE	RPM	ELECTRICAL REQUIREMENTS RPM HP VOLTS Φ			REMARKS	
5SP-1	OUENION HANDING DIDLEY										

SHOCK ABSORBER SCHEDULE									
PDI RATING SYMBOL	А	В	С	D	E				
PRECISION PLUMBING PRODUCTS	SC-500	SC-750	SC-1000	SC-1250	SC-1500				
WATTS REGULATOR COMPANY	0750030	0750053	0750060	0750070	0750090				
WADE	5-P	10-P	20-P	50-P	75-P				

- * MANUFACTURERS NAMES AND MODEL NUMBERS ARE SHOWN ONLY TO REPRESENT TYPE, STYLE AND
- LEVEL OF QUALITY EXPECTED, REFER TO SPECIFICATIONS FOR ACCEPTABLE EQUAL MANUFACTURERS.
- ** PROVIDE WITH SHUT-OFF VALVE.

	DRAIN SCHEDULE										
DESIGNATION	TYPE	MANUFACTURER	MODEL	OUTLET	STRAINER	REMARKS					
FD'A'	FD	J.R. SMITH	2005Y-A-P050	NO HUB	NICK-BRZ	FINISHED AREAS					
FD'B'	FD	J.R. SMITH	9700C-CF8M-NB	CAULK	NICK-BRZ	CLASSIFIED OR HAZARDOUS AREAS					
FD'C'	FD	J.R. SMITH	2005Y-B-P050	CAULK	NICK-BRZ	SHOWERS					
RD'A'	RD	ZURN	Z121	NO HUB	CAST IRON DOME	REPLACE DRAIN TO ACCOMMODATE NEW ROOF					

- * ALL FLOOR DRAINS SHALL BE PROVIDED WITH AUTOMATIC TRAP PRIMERS. REFER TO DETAIL FOR PIPING ARRANGEMENT.
- * MANUFACTURERS NAMES AND MODEL NUMBERS ARE SHOWN ONLY TO REPRESENT TYPE, STYLE AND
- LEVEL OF QUALITY EXPECTED, REFER TO SPECIFICATIONS FOR ACCEPTABLE EQUAL MANUFACTURERS.

PREPARED BY



REGISTERED PROFESSIONAL



SUBCONSULTANT



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PROJECT

Taunton Wastewater
Treatment Facility
Improvements
Phase 1

Taunton, MA

TITLE

Plumbing Schedules

NO. REVISIONS DATE

DRAWN BY: RLB

DESIGNED BY: RHB

CHECKED BY: RHB

SCALE

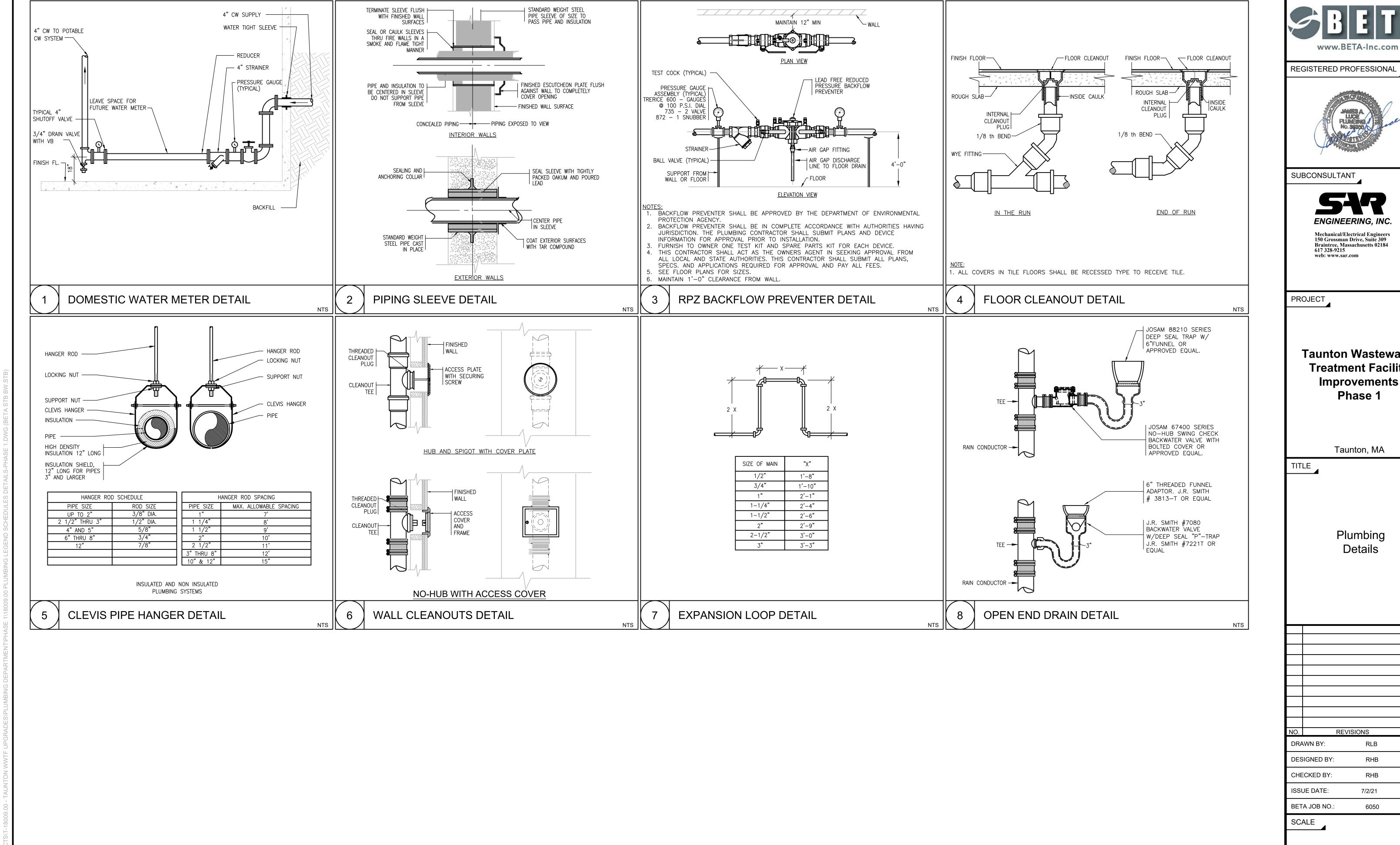
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Taunton Wastewater Treatment Facility Improvements Phase 1

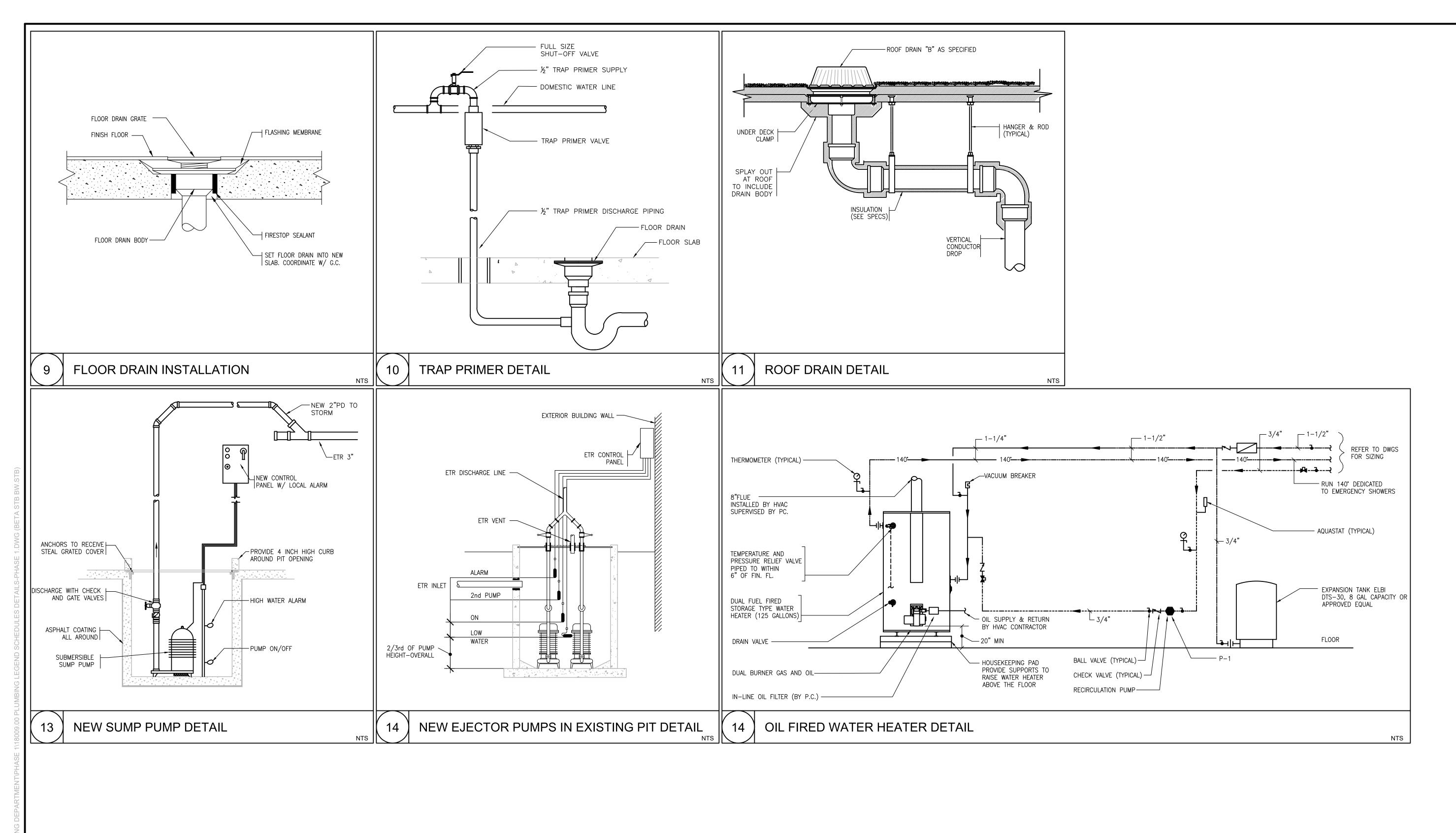
Plumbing

REVISIONS DATE RLB RHB RHB 7/2/21

NONE

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PROJECT

Taunton Wastewater
Treatment Facility
Improvements
Phase 1

Taunton, MA

TITLE

Plumbing Details

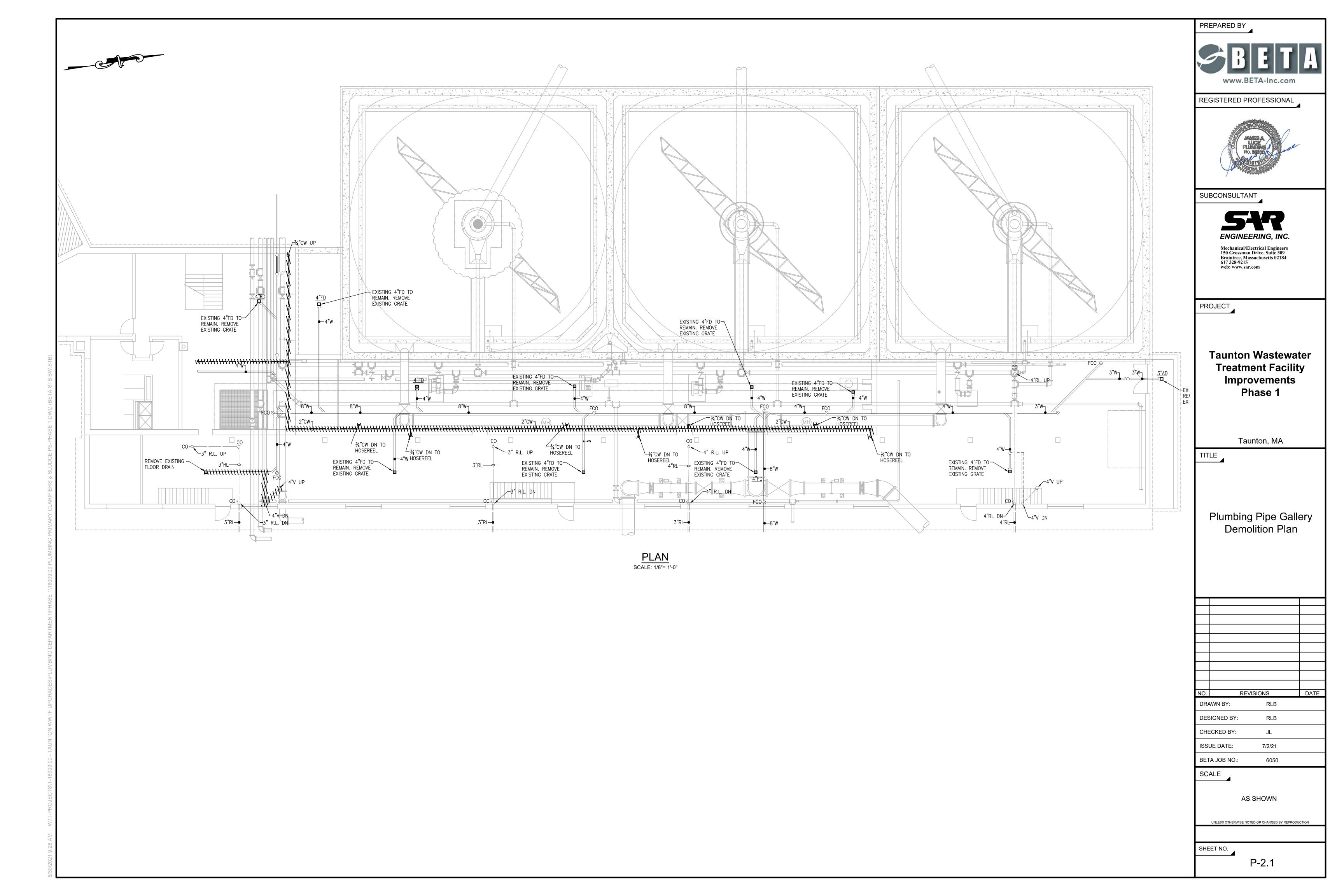
IO.	F	REVISIONS	DATE
DRA	AWN BY:	RLB	
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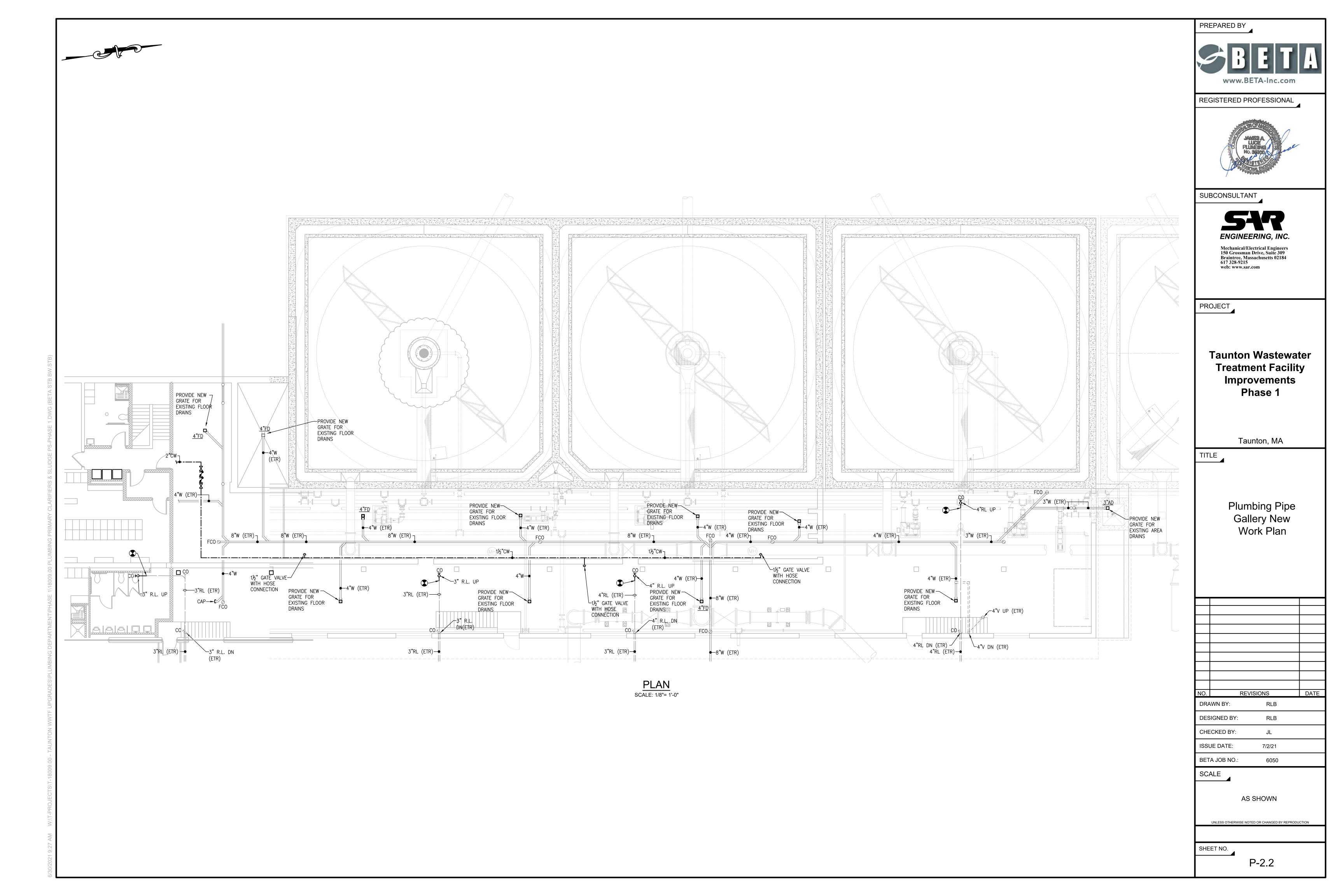
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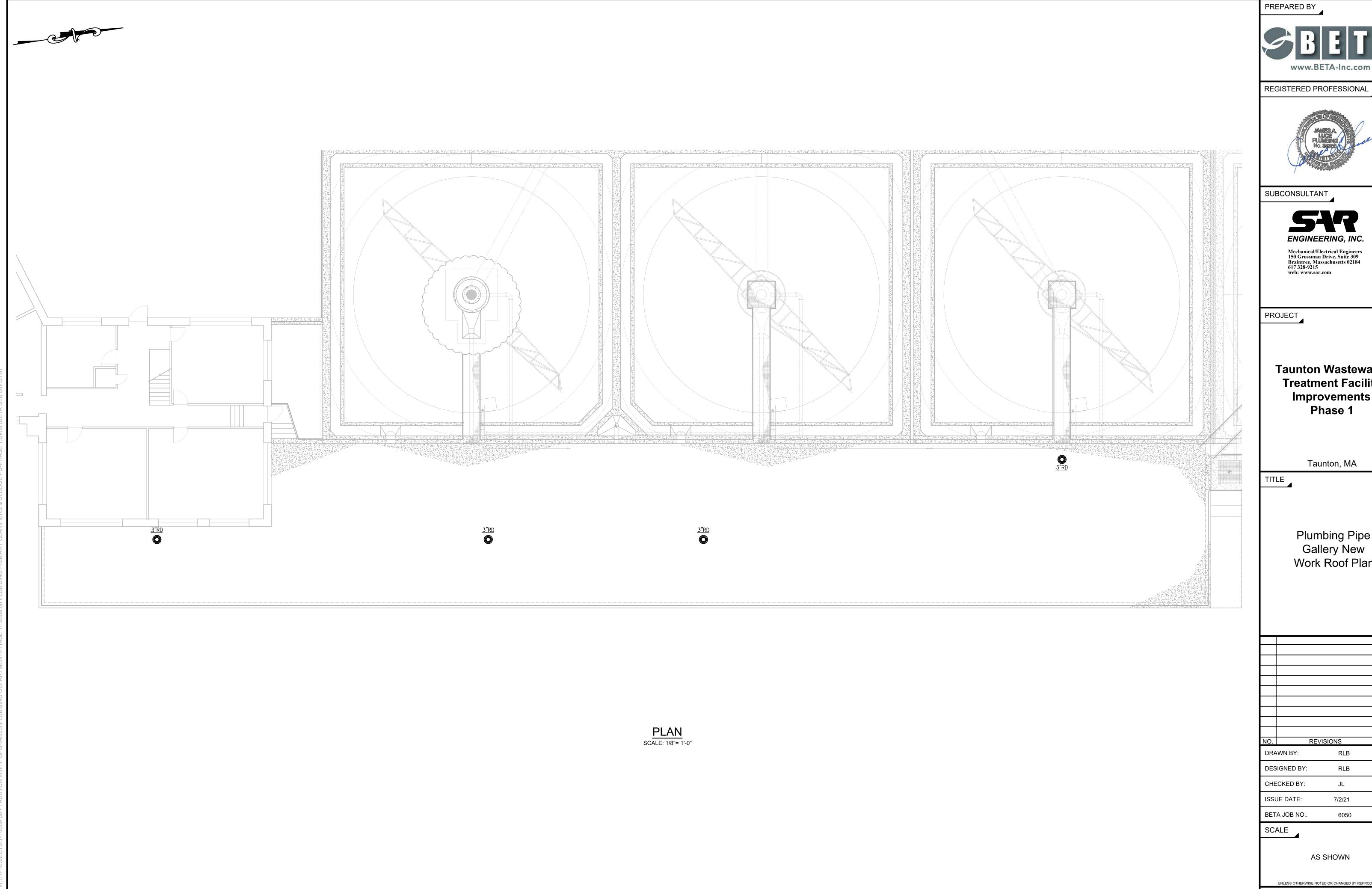
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Taunton Wastewater Treatment Facility Improvements Phase 1

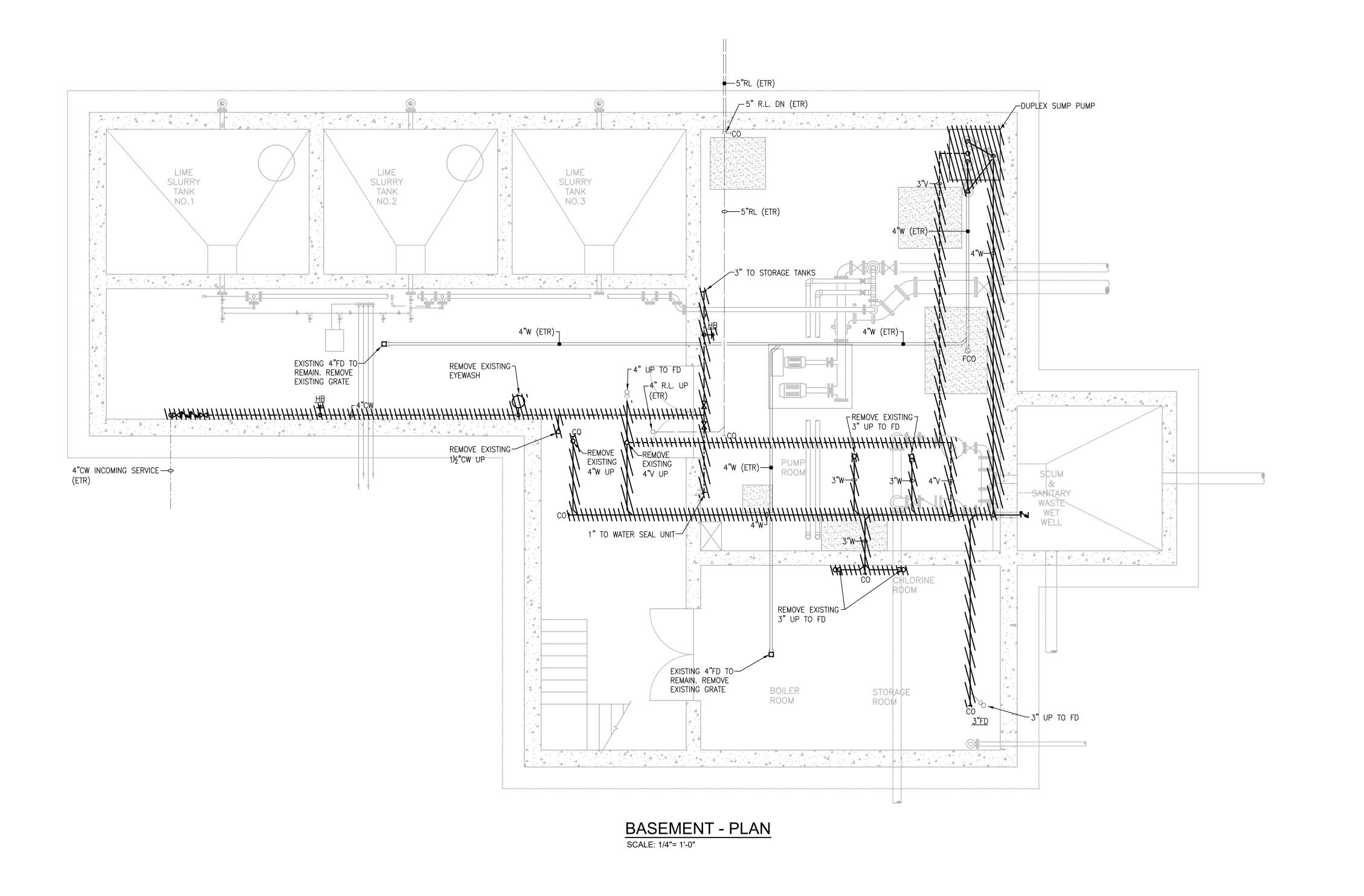
Plumbing Pipe Gallery New Work Roof Plan

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WN BY:	RLB	
SIGNED BY:	RLB	
ECKED BY:	JL	
JE DATE:	7/2/21	

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PROJECT

Taunton Wastewater
Treatment Facility
Improvements
Phase 1

Taunton, MA

IIILE

Plumbing Demolition Chemical Handling Building Basement Plan

NO. REVISIONS DATE

DRAWN BY: RLB

DESIGNED BY: RLB

CHECKED BY: JL

ISSUE DATE: 7/2/21

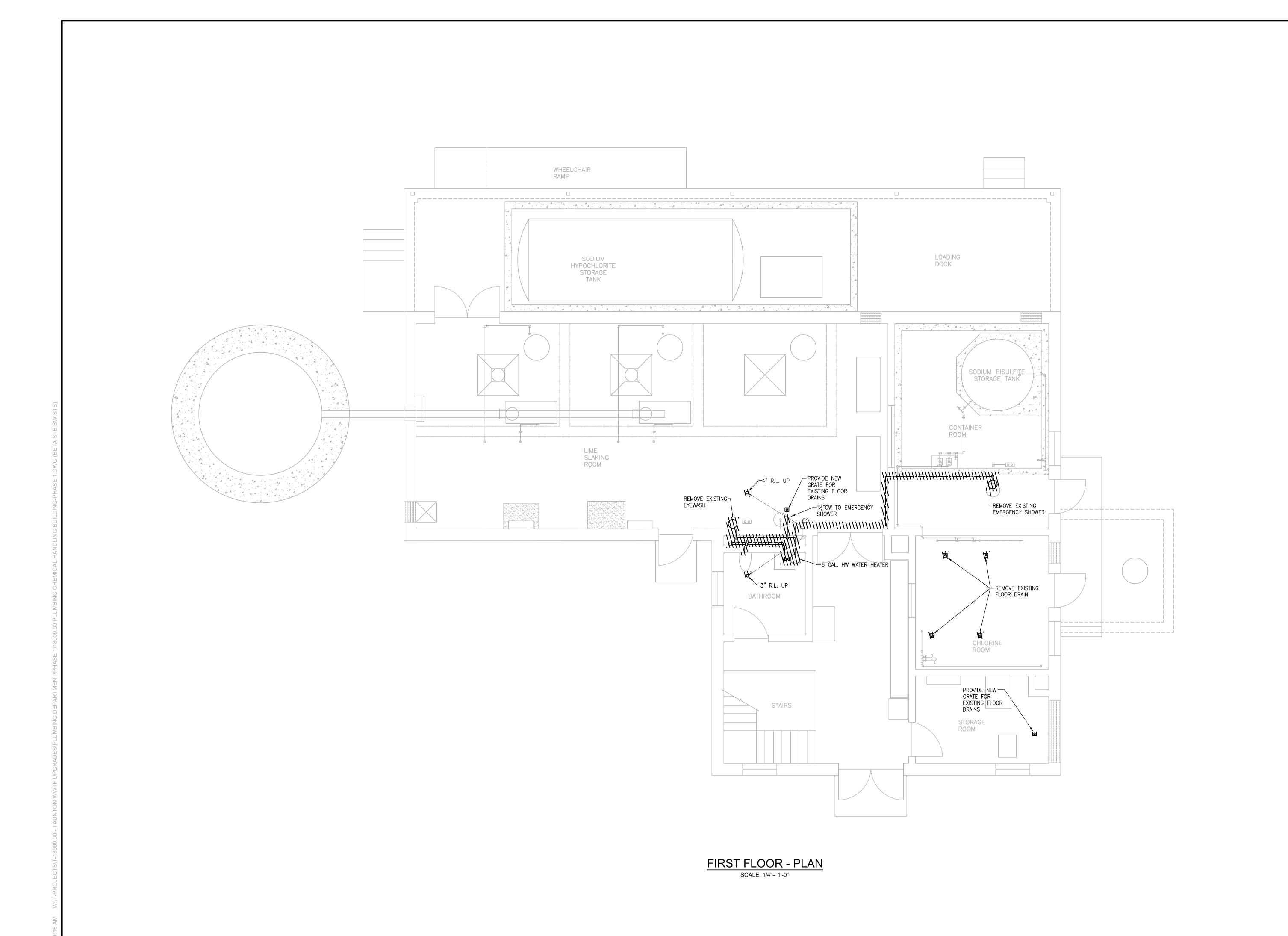
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Taunton Wastewater Treatment Facility Improvements Phase 1

Taunton, MA

Plumbing Demolition Chemical Handling Building First Floor Plan

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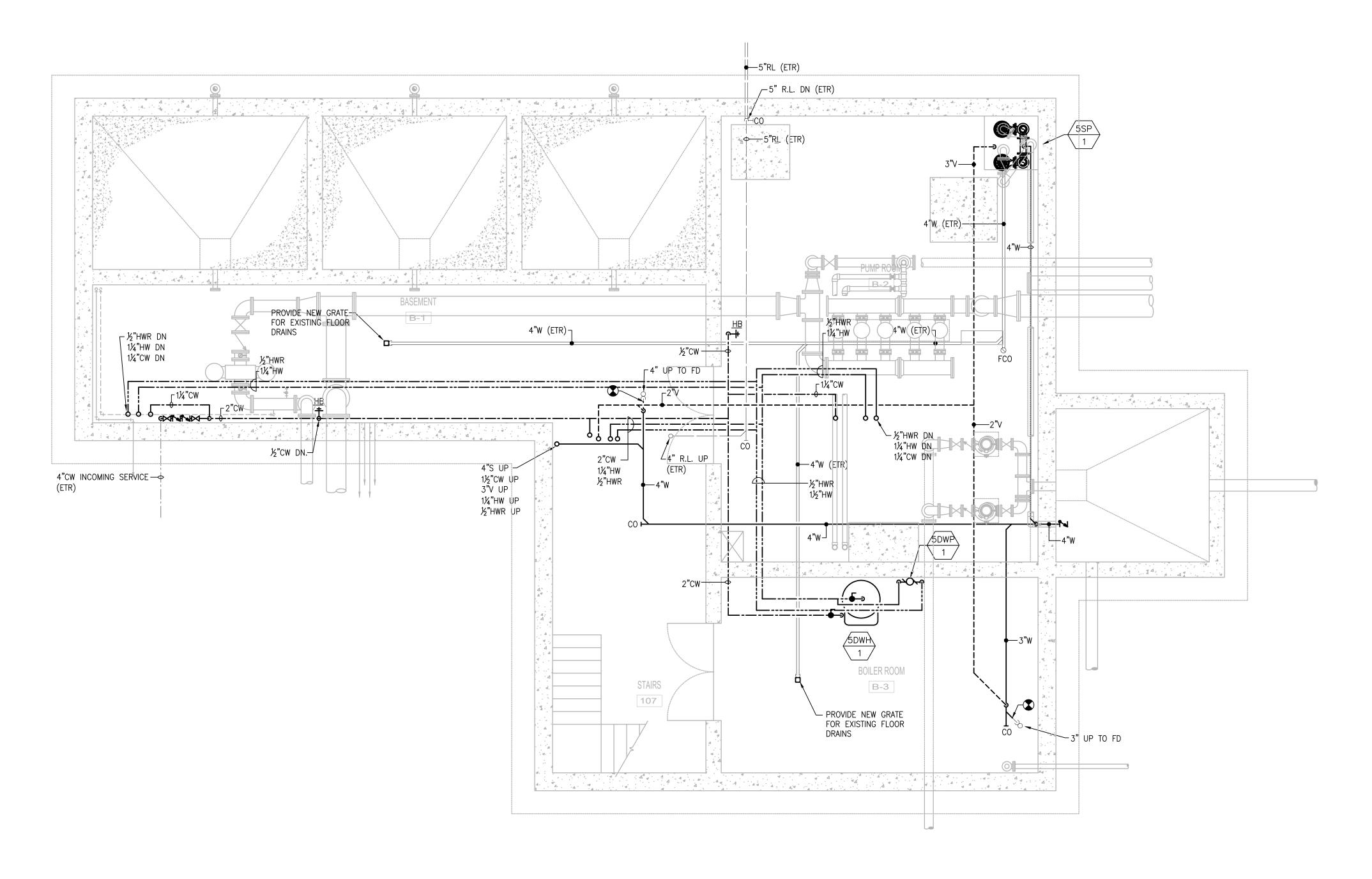
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BASEMENT - PLAN
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Treatment Facility
Improvements
Phase 1

Taunton, MA

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Plumbing Chemical Handling Building Basement Plan

NO. REVISIONS DATE

DRAWN BY: RLB

DESIGNED BY: RLB

CHECKED BY: JL

ISSUE DATE: 7/2/21

BETA JOB NO.:

SCALE

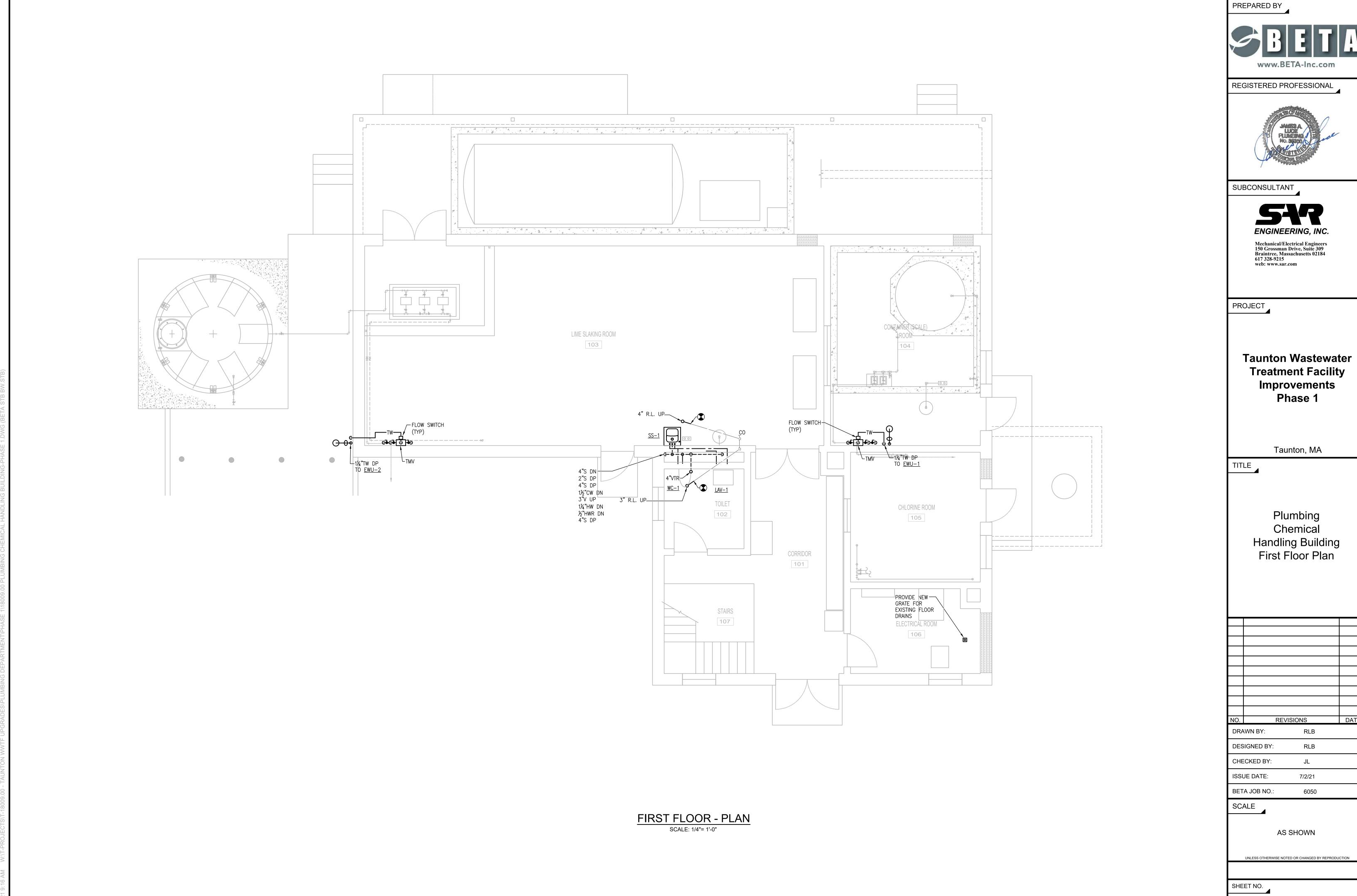
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P-5.3

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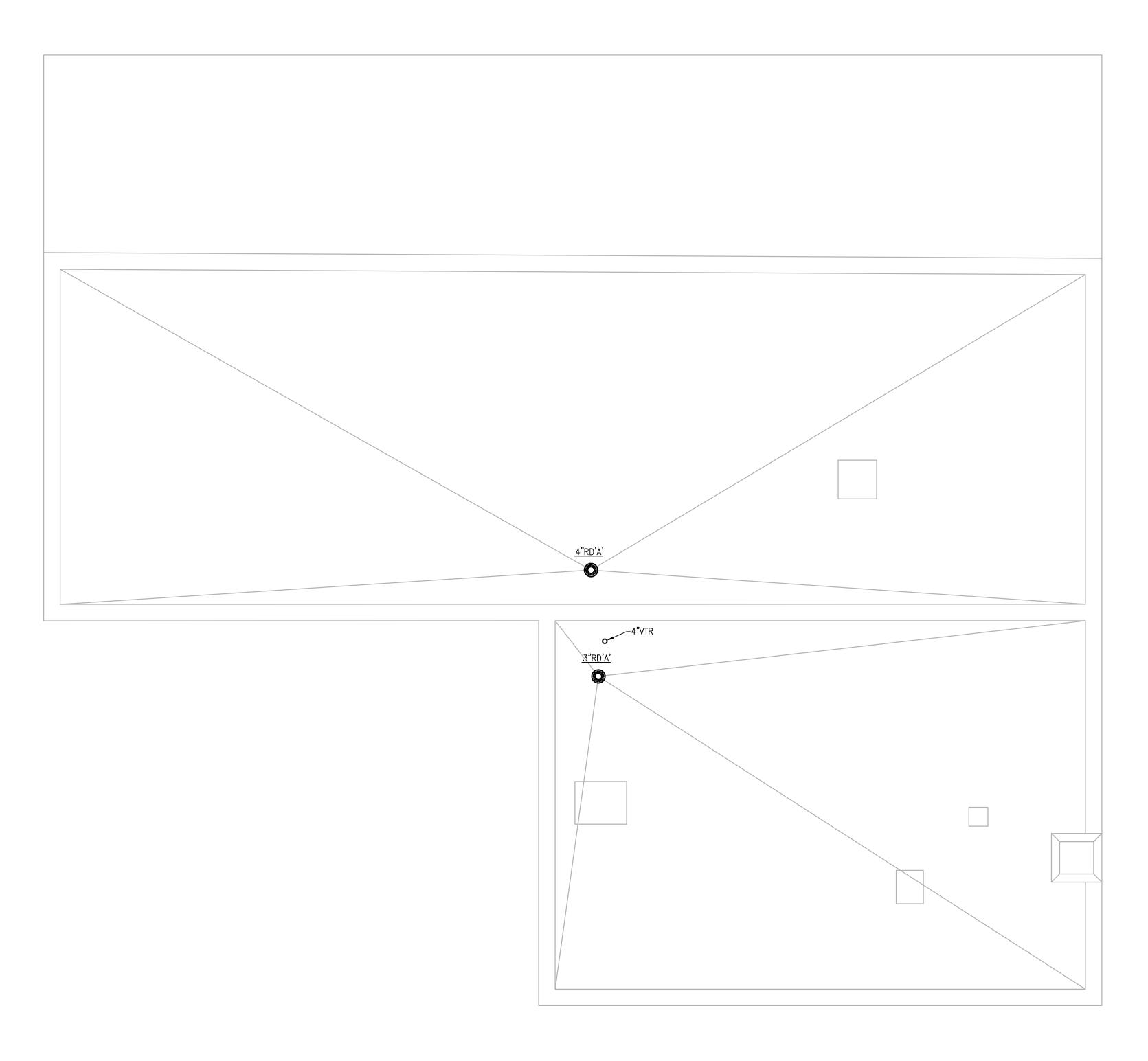


Treatment Facility Improvements

Handling Building First Floor Plan

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RA	WN BY:	RLB	
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ROOF - PLAN
SCALE: 1/4"= 1'-0"



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Taunton Wastewater Treatment Facility Improvements Phase 1

Taunton, MA

Plumbing Chemical Handling Building Roof Plan

REVISIONS DATE DRAWN BY:

DESIGNED BY: CHECKED BY: 7/2/21 ISSUE DATE:

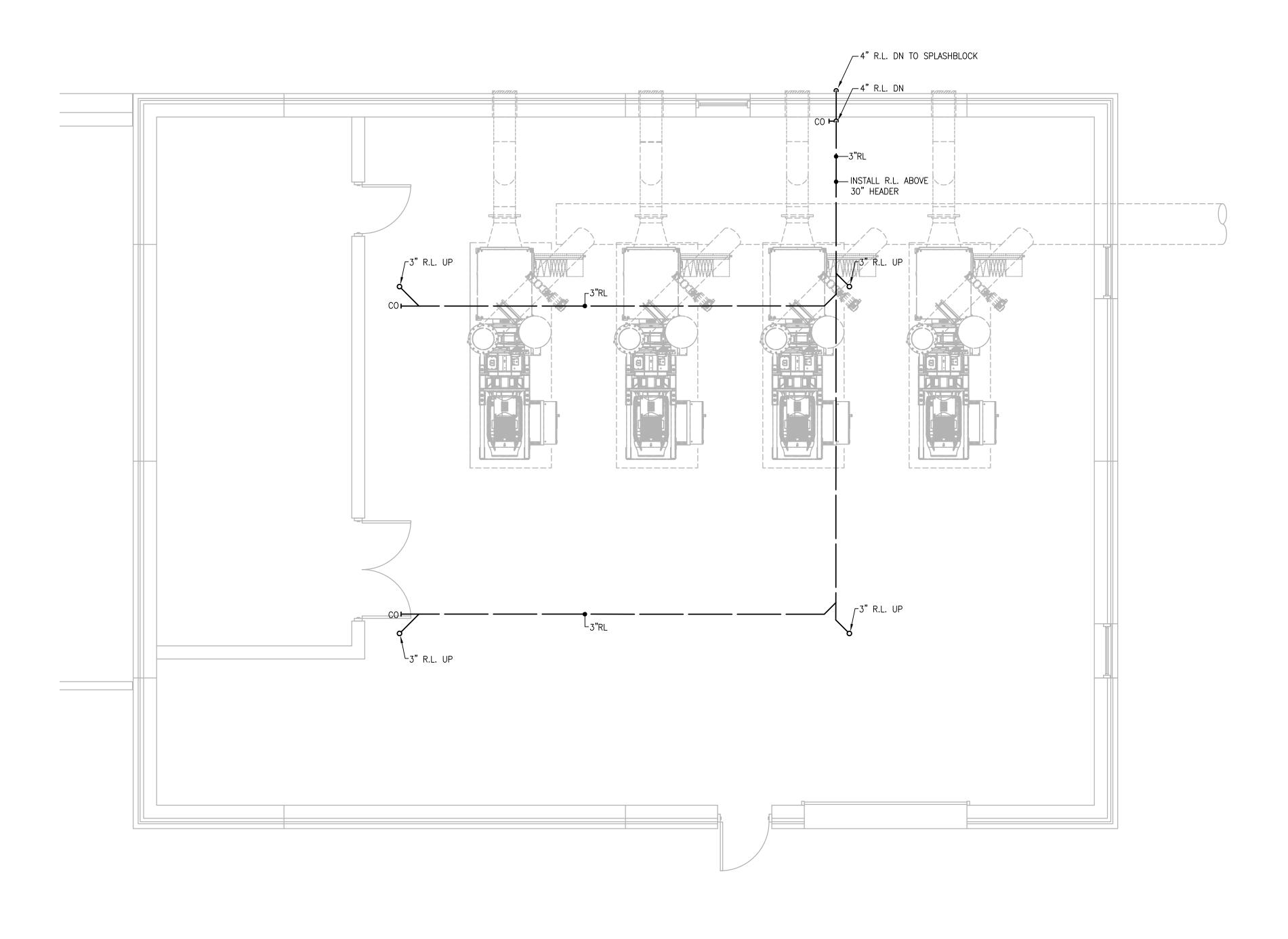
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PLAN SCALE: 1/4"= 1'-0" PREPARED BY



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Taunton Wastewater
Treatment Facility
Improvements
Phase 1

Taunton, MA

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Plumbing Blower Building Plan

10.	REVISIONS	DATE
DR/	AWN BY: RLB	

DRAWN BY: RLB

DESIGNED BY: RLB

CHECKED BY: JL

ISSUE DATE:

BETA JOB NO.:

SCALE

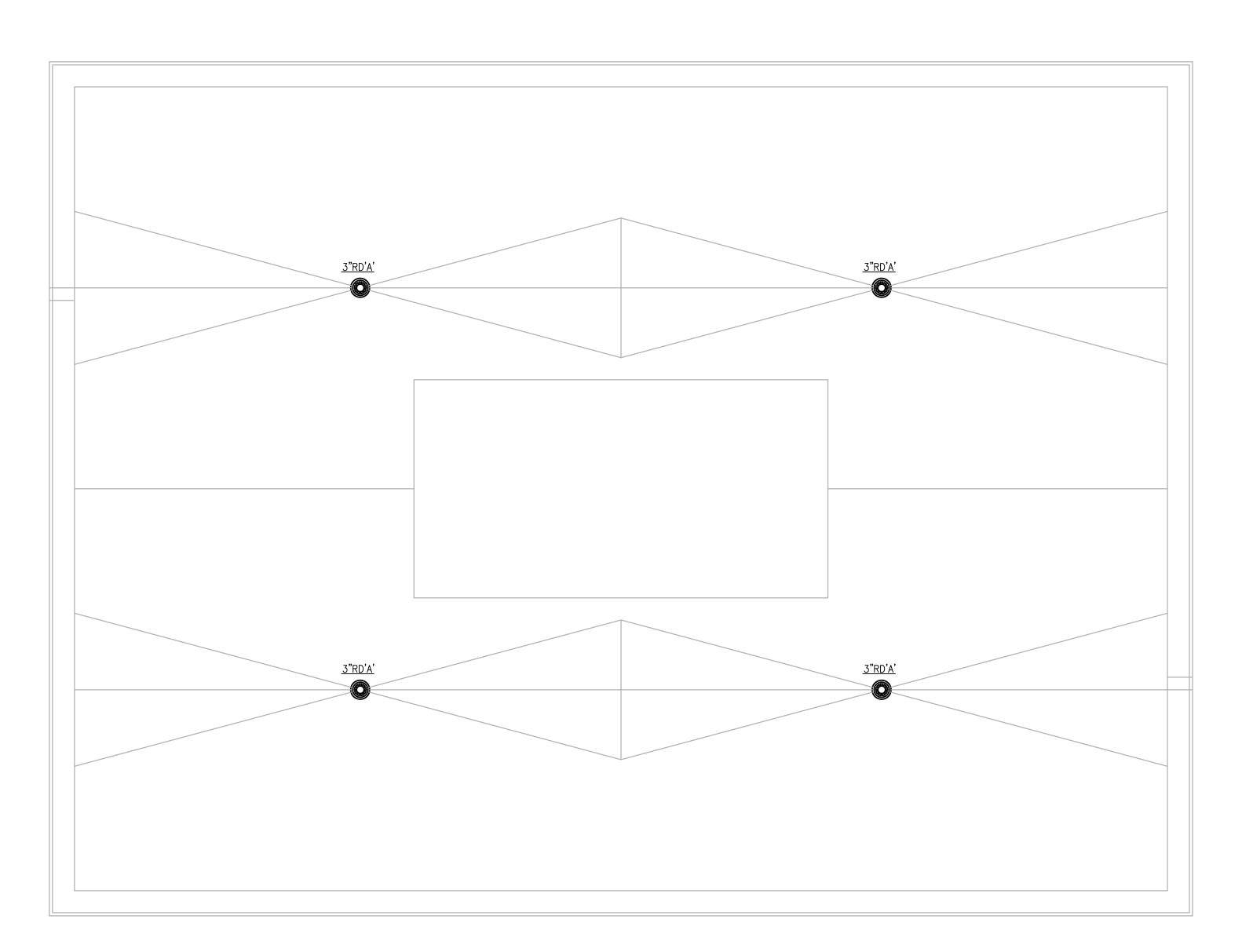
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P-6.1



ROOF PLAN
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Taunton Wastewater
Treatment Facility
Improvements
Phase 1

Taunton, MA

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Plumbing Blower Building Roof Plan

NO. REVISIONS DATE

DRAWN BY: RLB

DESIGNED BY: RLB

DESIGNED BY: RLB

CHECKED BY: JL

ISSUE DATE: 7/2/21

BETA JOB NO.:

SCALE

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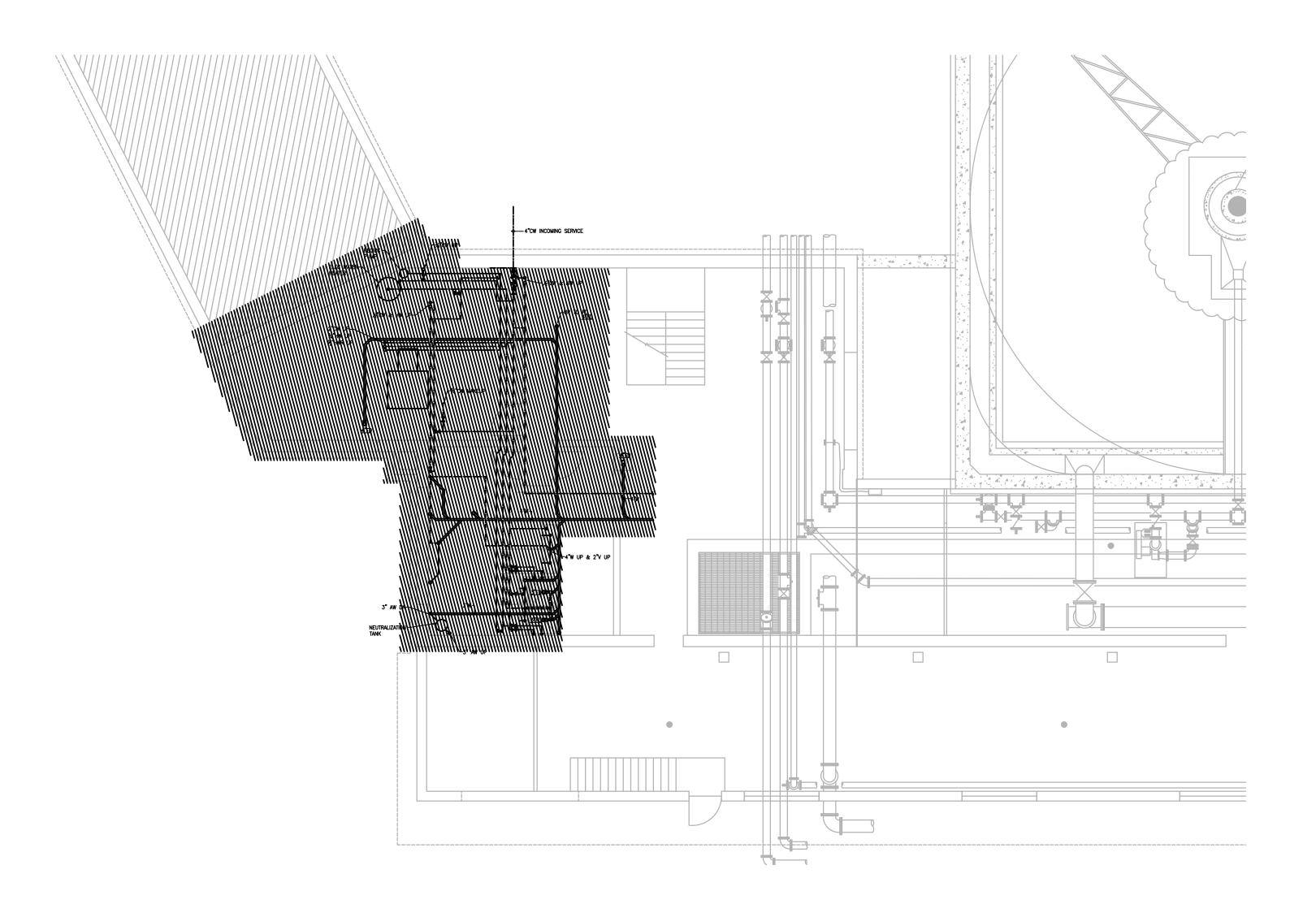
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P-6.2

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BASEMENT FLOOR - PLAN

SCALE: 1/8"= 1'-0"

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PROJECT

Taunton Wastewater
Treatment Facility
Improvements
Phase 1

Taunton, MA

IIILE

Plumbing Demolition Control & Admin. Building Basement Plan

NO.	F	REVISIONS	DATE
DRA	AWN BY:	RLB	
DESIGNED BY:		RLB	

DESIGNED BY: RLB

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ISSUE DATE: 7/2/21

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Taunton Wastewater
Treatment Facility
Improvements
Phase 1

Taunton, MA

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Plumbing Demolition Control & Admin. Building First Floor Plan

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DESIGNED BY: RLB

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ISSUE DATE: 7/2/21

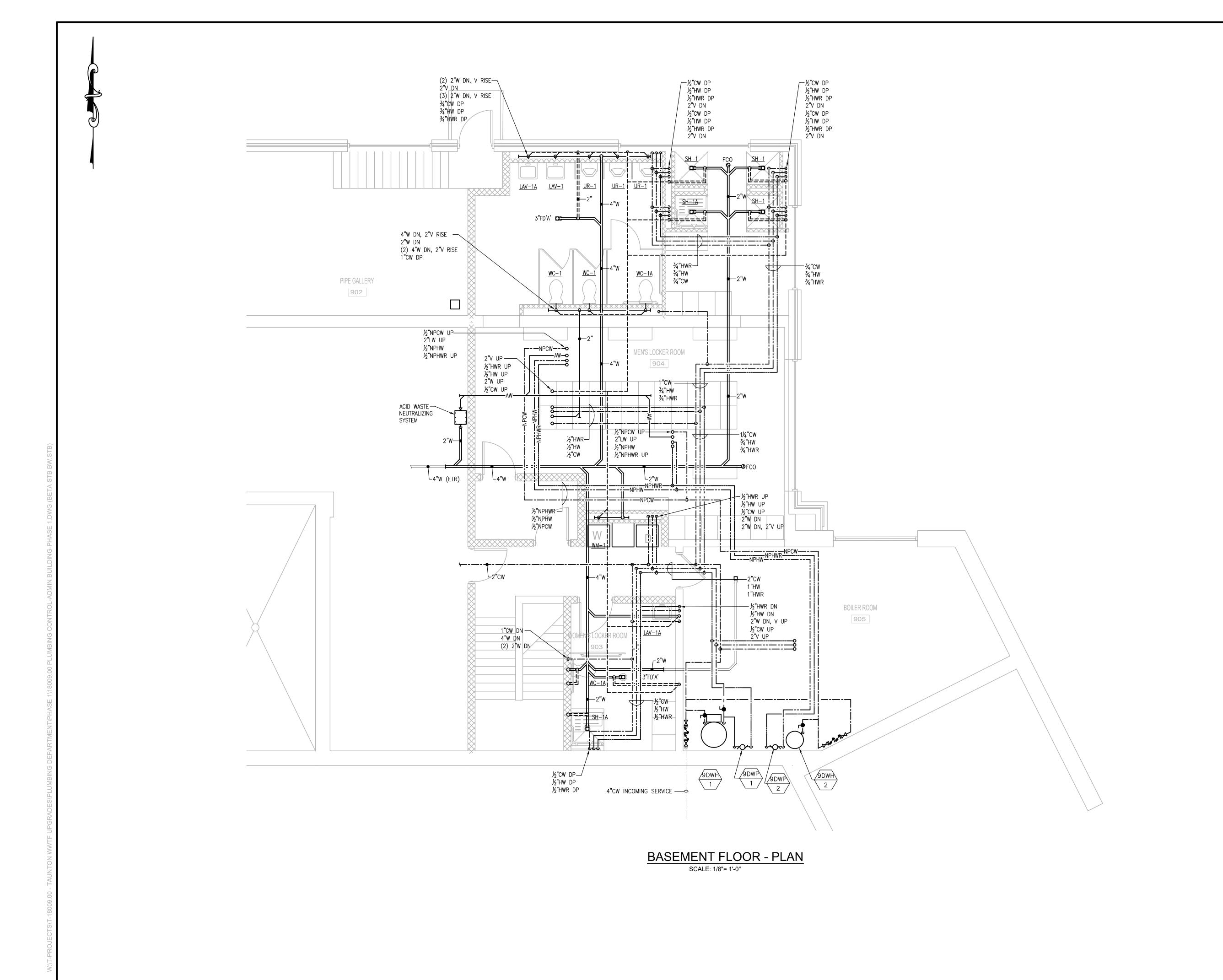
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Plumbing Control & Admin. Building Basement Plan

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CHECKED BY: JL

ISSUE DATE: 7/2/21

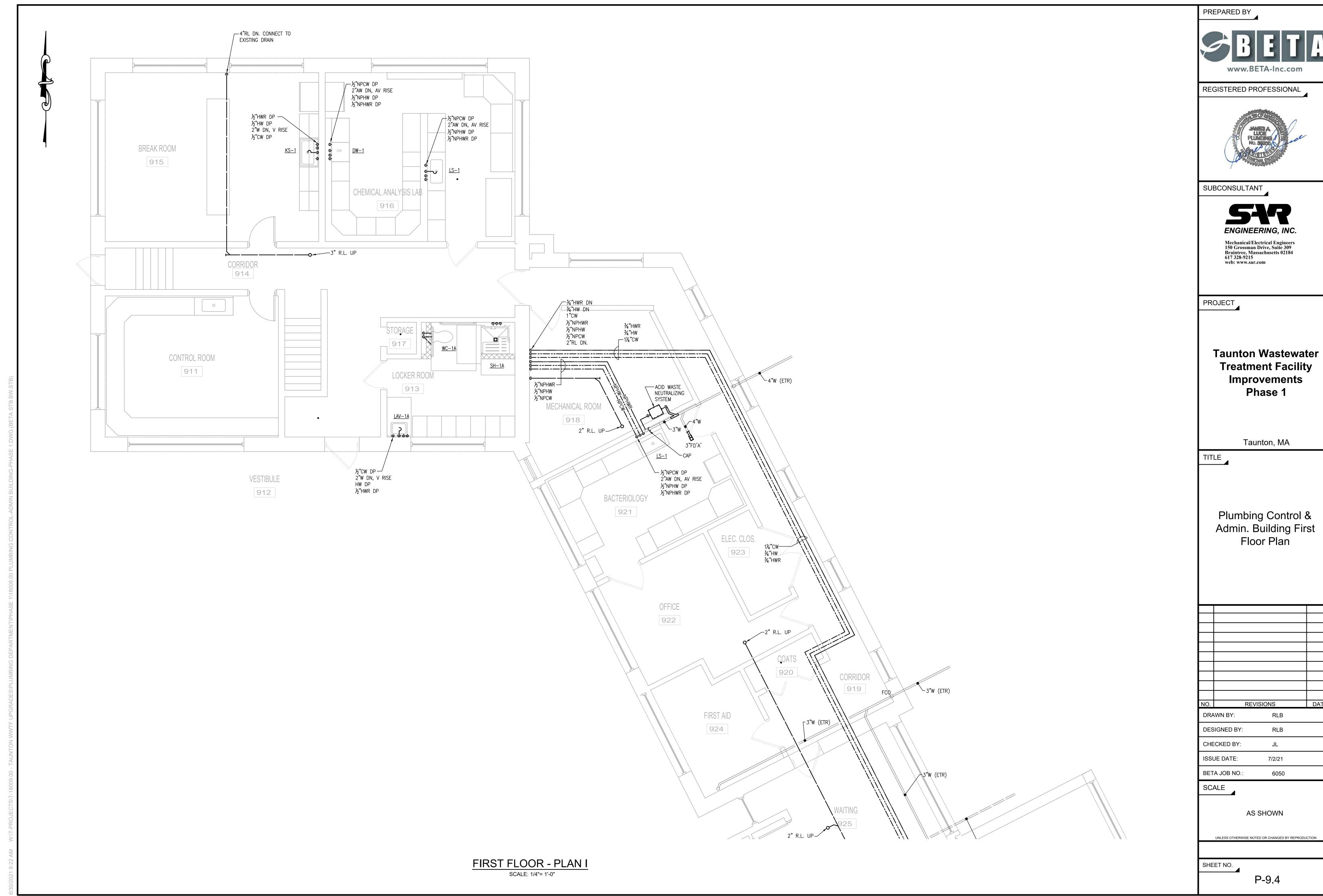
BETA JOB NO.:

SCALE

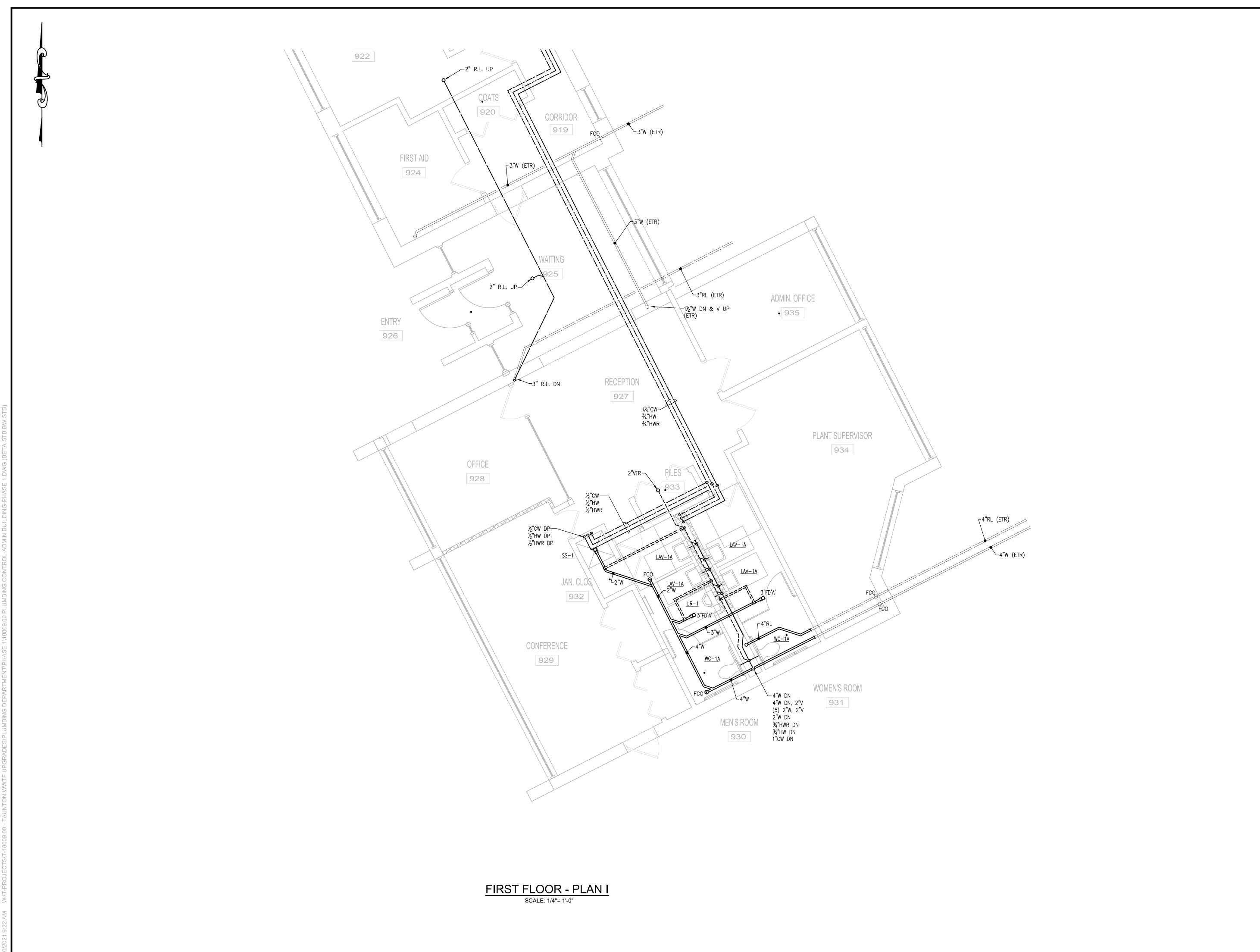
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DATE





REGISTERED PROFESSIONAL



SUBCONSULTANT



Mechanical/Electrical Engineers 150 Grossman Drive, Suite 309 Braintree, Massachusetts 02184 617 328-9215 web: www.sar.com

PROJECT

Taunton Wastewater Treatment Facility Improvements Phase 1

Taunton, MA

Plumbing Control & Admin. Building First Floor Plan

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DRAWN BY:		RLB	
DESIGNED BY:		RLB	

CHECKED BY:

ISSUE DATE:

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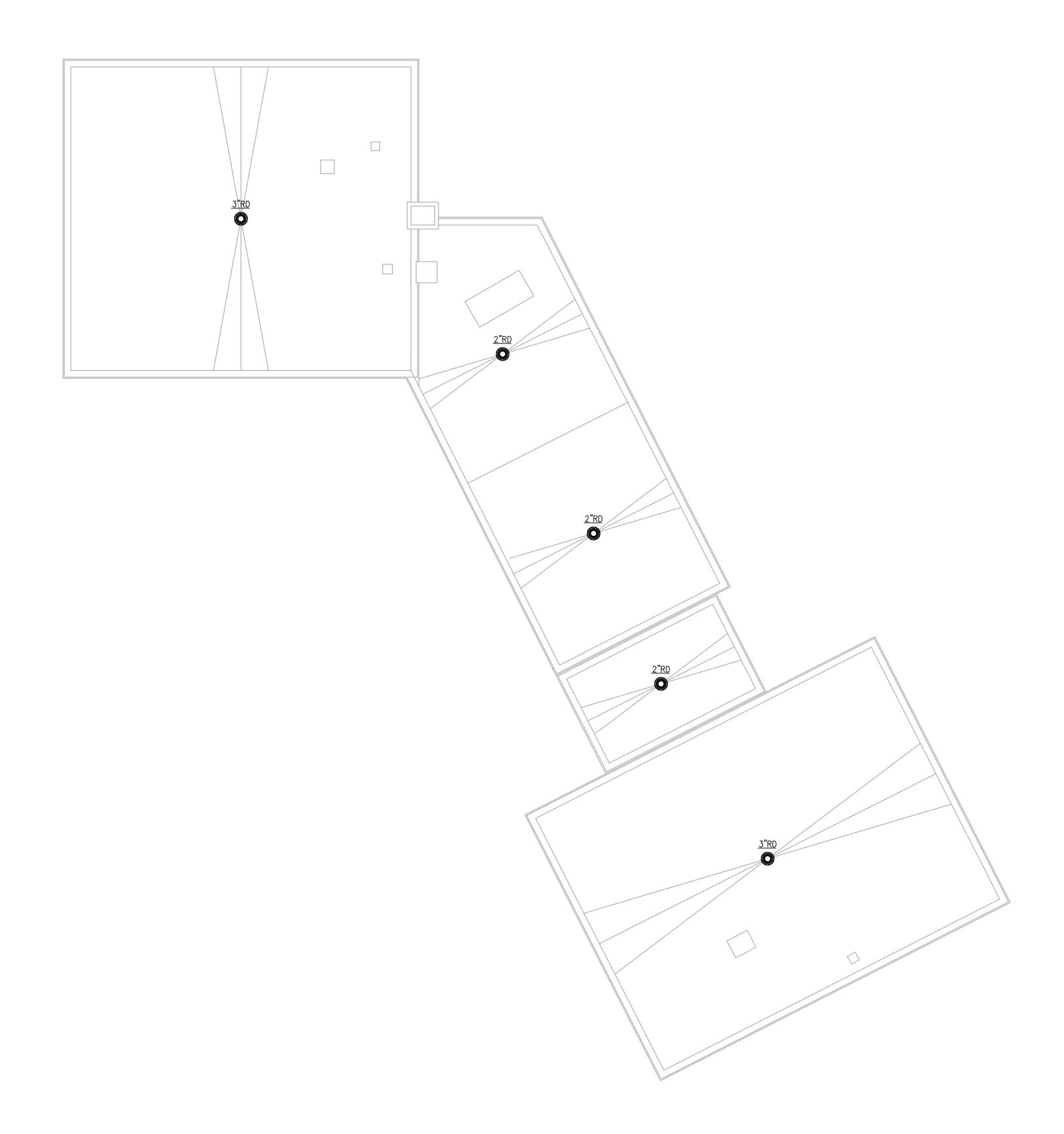
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ROOF PLAN
SCALE: 1/8"= 1'-0"

PREPARED BY



REGISTERED PROFESSIONAL



SUBCONSULTANT



Mechanical/Electrical Engineers 150 Grossman Drive, Suite 309 Braintree, Massachusetts 02184 617 328-9215 web: www.sar.com

PROJECT

Taunton Wastewater
Treatment Facility
Improvements
Phase 1

Taunton, MA

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Plumbing Control & Admin. Building Roof Plan

).	RI	EVISIONS	DATE
RAWN BY: RLB			
ESIGNED BY: RL		RLB	

DESIGNED BY: RLB

CHECKED BY: JL

ISSUE DATE: 7/2/21

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