**SYMBOLS ABBREVIATIONS GENERAL NOTES** DESCRIPTION DESCRIPTION SYMBOL **ABBREVIATION** ABOVE FINISHED FLOOR AFF ACID NEUTRALIZER 1. THE SYMBOLS AND ABBREVIATIONS LIST ON THIS SHEET IS A COMPREHENSIVE MAIN PIPING (TYPE OF SERVICE AS SPECIFIED OR NOTED) ARCH ARCHITECTURAL STANDARD GUIDE INTENDED FOR GENERAL USE ON ALL PROJECTS. THEREFORE NOT AVB AUTOMATIC VACUUM BREAKER ALL THE SYMBOLS AND ABBREVIATIONS CONTAINED IN THIS LIST ARE NECESSARILY BELOW SLAB MAIN PIPING (TYPE OF SERVICE AS SPECIFIED OR NOTED) USED ON THIS PARTICULAR PROJECT AND SHOULD BE USED FOR CLARIFICATION ONLY. BFP - DCDA BACKFLOW PREVENTER - DOUBLE CHECK DETECTOR ASSEMBLY EXISTING PIPING TO BE DEMOLISHED 2. ALL FLOOR DRAINS ARE AT LOW POINTS OF FLOORS AND SHALL BE INSTALLED BFP - RPZ BACKFLOW PREVENTER - REDUCED PRESSURE ZONE ASSEMBLY FLUSH WITH THE FINISHED FLOOR. BOP **BOTTOM OF PIPE** BRANCH PIPING (TYPE OF SERVICE AS SPECIFIED OR NOTED) 3. ALL FLOOR DRAINS FOR EQUIPMENT SHALL BE FIELD COORDINATED AND LOCATED CENTERLINE ADJACENT TO THE EQUIPMENT PADS IN THE APPROXIMATE LOCATIONS SHOWN ON PIPE RISE, UNLESS OTHERWISE NOTED THE DRAWINGS. CLG CEILING 4. ALL BRANCH PIPING TO EQUIPMENT OR FIXTURES SHALL BE PROVIDED WITH CLEANOUT CO PIPE DROP, UNLESS OTHERWISE NOTED **□** SHUT-OFF VALVES, WHETHER SHOWN, OR NOT SHOWN ON DRAWINGS. CONNECT/CONNECTION CONN 5. ALL PIPING SHALL BE CONCEALED WITHIN WALLS, PIPE SPACES AND HUNG BRANCH - TOP OR BOTTOM CONNECTION CONT CEILINGS EXCEPT IN MECHANICAL SPACES OR WHERE NOTED. CONTINUATION RISE OR DROP IN RUN OF PIPE CW COLD WATER 6. CHANGES IN DIRECTION IN DRAINAGE PIPING SHALL BE MADE BY THE USE OF 45 DEGREE ELLS, LONG SWEEPS, 90 DEGREE WYES W/CO'S OR BY A COMBINATION OF DIAMETER **BRANCH CONNECTION - SIDE** EQUIVALENT FITTINGS. THERE SHALL BE NO DOUBLE WYES IN THE HORIZONTAL DN DOWN (PENETRATES FLOOR SLAB) CAP ON END OF PIPE \_\_\_\_\_ DRAIN DR 7. SANITARY TEES AND QUARTER BENDS MAY BE USED IN DRAINAGE LINES ONLY WHERE DIRECTION OF FLOW IS FROM HORIZONTAL TO THE VERTICAL. **ELEVATION** VALVE IN VERTICAL EMERGENCY EYEWASH AND SHOWER EES 8. ALL VENT RISERS RUN STRAIGHT THROUGH ROOF SHALL HAVE AN APPROVED CLEANOUT PLUG EXPANSION JOINT SYSTEM INSTALLED BELOW ROOF. EWH ELECTRIC WATER HEATER 9. ALL CONTROL WIRING SHALL BE 120 VOLTS UNLESS OTHERWISE SPECIFIED. **EXIST EXISTING** CONCENTRIC REDUCER TRANSFORMERS SHALL BE PROVIDED WHERE REQUIRED. FCO FLOOR CLEANOUT 10. ALL EQUIPMENT AND CONTROL MECHANISMS SHALL BE PIPED THROUGH UNION FD FLOOR DRAIN GATE VALVE (OS&Y) CONNECTIONS. FIN FL FINISHED FLOOR 11. ALL WYE TYPE STRAINERS SHALL HAVE A 3-INCH LONG THREADED NIPPLE, GAL **GALLONS** CHECK VALVE THREADED END BALL VALVE AND PLUG ON BLOWDOWN SIDE. GPH GALLONS PER HOUR 12. ALL DRAINAGE PIPING TO SLOPE AT A MIN. OF 1/8" PER FT UNLESS OTHERWISE GPM GALLONS PER MINUTE BACKWATER VALVE HOSE BIBB HOT WATER 13 AN ACCESSIBLE CLEANOUT SHALL BE PROVIDED AT THE BASE OF EACH SOIL BALL VALVE STACK, WASTE STACK AND ROOF LEADER HIGH POINT 14. ALL HORIZONTAL STORM DRAINAGE PIPING, HOT, COLD AND TEPID WATER PIPING 阿 HOSE STATION WATER METER - 2" & SMALLER SHALL BE INSULATED. INVERT ELEVATION 15. TRAPS SHALL BE PROVIDED AT ALL FLOOR DRAINS EXCEPT WHERE NOTED. LAVATORY REDUCED PRESSURE ZONE BACKFLOW PREVENTER (BFP-RPZ) MAXIMUM 16. VENT LINES SERVING FLOOR DRAIN HEADERS SHALL BE TAKEN OFF ABOVE THE CENTERLINE OF THE SOIL PIPE, AND THE VENT PIPE SHALL RISE AT AN ANGLE MOP SINK NOT MORE THAN 45° FLOOR DRAIN (FD) NON-POTABLE WATER 17. ALL EXPOSED PIPING, FITTINGS AND VALVES IN FINISHED WASHROOMS SHALL BE NON-FREEZE WALL HYDRANT CHROME PLATED FLOOR CLEANOUT (FCO) NTS NOT TO SCALE 18. STORAGE TEMPERATURE OF DOMESTIC HOT WATER SHALL BE 140°F SPD SUMP PUMP DISCHARGE 19. ALL FLOOR DRAIN P-TRAPS SHALL BE PROVIDED WITH 1/2" TRAP PRIMER CONN. RUN EMERGENCY EYEWASH & SHOWER (EES) 1/2" COPPER TUBING FROM TRAP PRIMER VALVE TO ALL FLOOR DRAINS (EXCEPT PRV PRESSURE REGULATING VALVE WHERE NOTED). FIELD ROUTE PIPING IN & BELOW SLAB AS REQ'D. CONTRACTOR POST HYDRANT SHALL PROVIDE ALL PIPE, FITTING, SUPPORTS AND APPURTENANCES TO COMPLETE CONNECT TO EXISTING PW POTABLE WATER 20. VENT LINES SERVING FLOOR DRAIN HEADERS SHALL BE TAKEN OFF ABOVE THE SOIL CENTERLINE OF THE SOIL PIPE AND THE VENT PIPE SHALL RISE AT AN ANGLE NOT SAN SANITARY PRESSURE REGULATING VALVE (PRV) SECONDARY STORM DRAIN 21. HOT AND TEPID WATER PIPING SHALL BE ELECTRICALLY HEAT TRACED TO MAINTAIN SHOWER REQUIRED SPECIFIED WATER TEMPERATURE. SINK 22. ALL VENT PIPES SHALL TRANSITION TO 4" PRIOR TO PENETRATING THE ROOF. HOSE BIBB (HB) ST STORM DRAIN TRANSITION COUPLINGS SHALL BE NO LESS THAN 12" FROM INSIDE THE BUILDING'S THERMAL ENVELOPE. TMV THERMOSTATIC MIXING VALVE ----NON-FREEZE WALL HYDRANT (NFWH) TPV TRAP PRIMER VALVE 23. PROVIDE PIPE SLEEVES W/ MECHANICAL LINK SEALS FOR ALL FLOOR, ROOF AND WALL TW TEPID WATER **TWMV** TEPID WATER MIXING VALVE HOSE STATION (HS) 24. REFER TO CODE COMPLIANCE CATEGORY ON ARCHITECTURAL DRAWINGS FOR ADDITIONAL DESIGN INFORMATION REQUIRED UNDER THIS CONTRACT. TYP TYPICAL 25. CONTRACTOR SHALL FILE AND OBTAIN ALL PERMITS REQUIRED FOR THE WORK. UNDERGROUND REFER TO NOTE 7 ON SHEET G-02. UP (PENETRATES FLOOR SLAB) THERMOSTATIC MIXING VALVE (TMV) VACUUM BREAKER WASTE TEPID WATER MIXING VALVE (TWMV) WATER CLOSET WCO WALL CLEAN OUT WATER HAMMER ARRESTER WHA WITH VACUUM BREAKER

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CONSULTANTS



8/30/2024 ORANGE COUNTY, NEW CITY OF NEWBURGH

WASTEWATER TREATMENT PLANT (WWTP) ADMIN BUILDING RENOVATION

BID NUMBER 7.24 ARCADIS PROJ. NO. 30183827

NO.	DATE	ISSUED FOR	BY

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DATE: SEPTEMBER 2024 PROJECT NO.: 30183827 FILE NAME: DESIGNED BY: S. SLIM DRAWN BY: S. BURTE

SHEET TITLE

CHECKED BY:

PLUMBING

F. ANDRADE

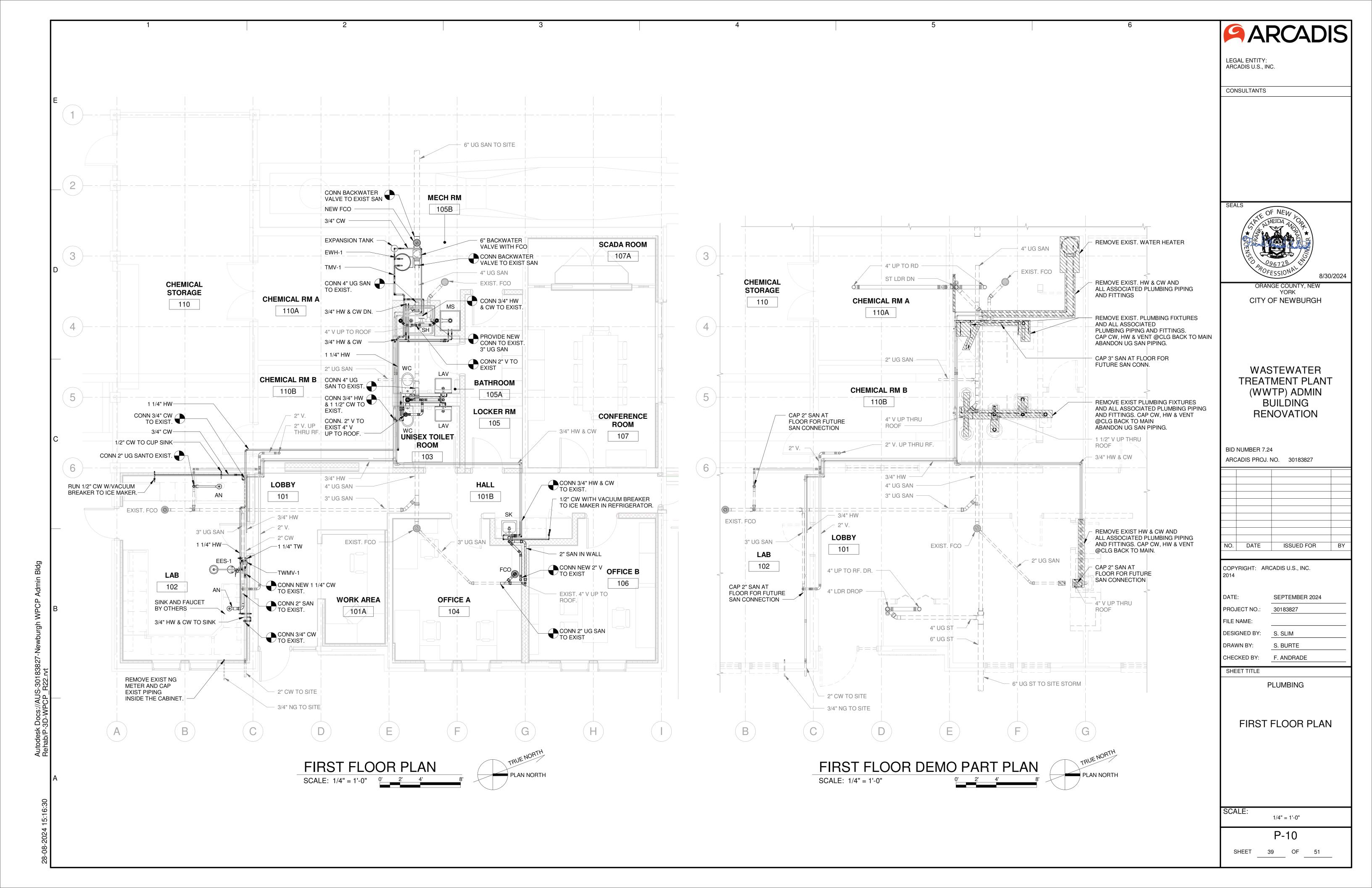
**NOTES AND ABBREVIATIONS** 

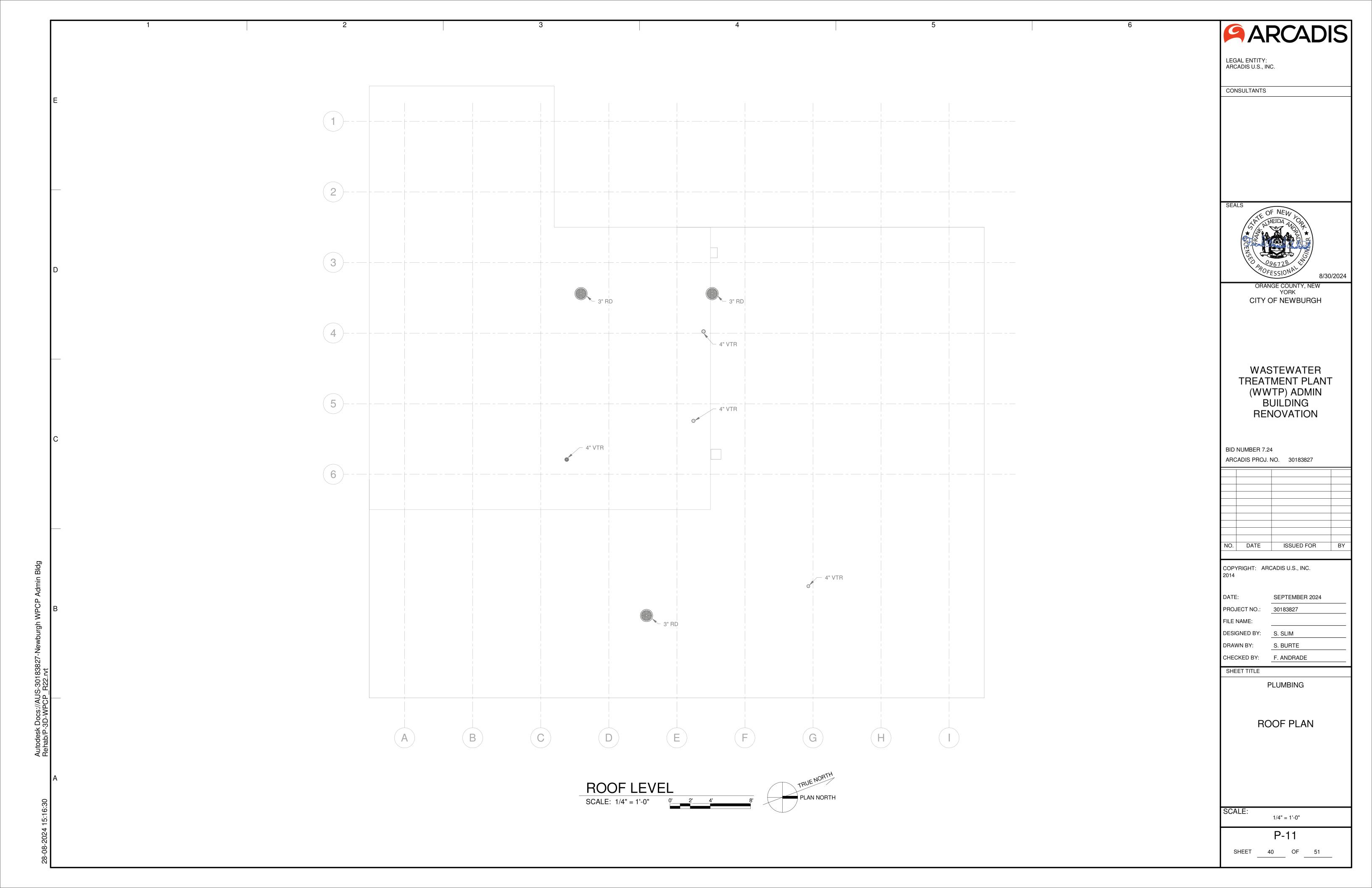
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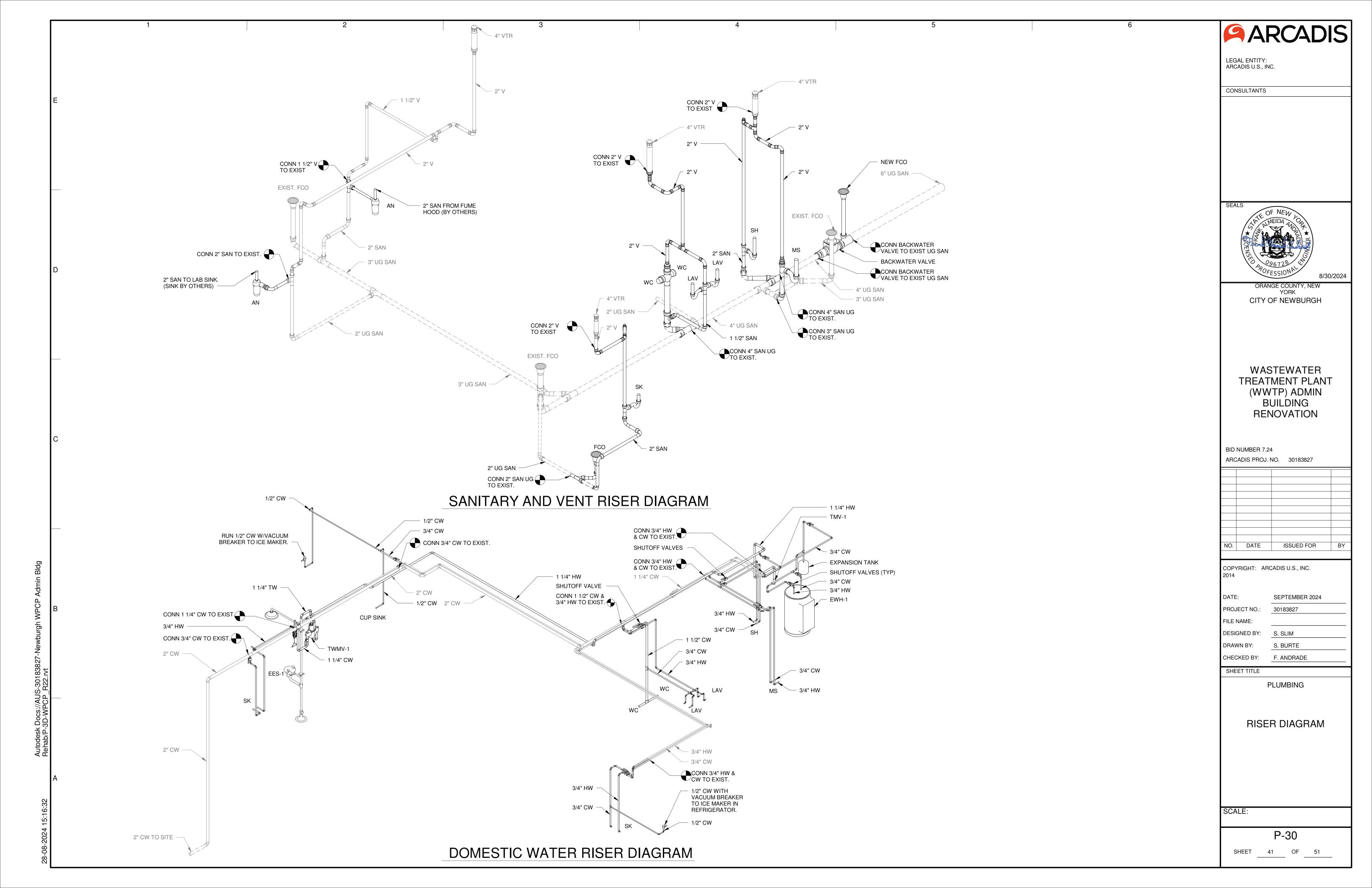
P-01

12" = 1'-0"

SHEET 38 OF 51







	PLUMBI	NG FIXT	URE SC	HEDULE	Ξ				
FIXTURE NO	DESCRIPTION	SERVICES							
	BEOOTH HOW	TRAP	S/W	VENT	CW	HW	TW	REMARKS	
LAV	LAVATORY	2"	2"	1 1/2"	3/4"	3/4"	-		
WC	WATER CLOSET	-	4"	2"	1-1/4"	-	-		
SK	PANTRY SINK	2"	2"	2"	3/4"	3/4"	-		
MS	MOP SINK	2"	2"	2"	3/4"	3/4"	-		
SH	SHOWER	2"	2"	2"	3/4"	3/4"	-		
EES	EMERGENCY EYEWASH SHOWER	-	-	-	-	-	1 1/4"		
AN	ACID NEUTRALIZER	-	1 1/2"	-	-	-	-		

	WATER HEATER SCHEDULE													
TYPE	LOCATION	SERVICE	STYLE	CAPACITY	CITY INPUT PERFORMANCE ELECTRICAL		PERFORMANCE			WATER CONN				
				NOMINAL STORAGE (GAL)	HEATING ELEMENT (KW)	SUPPLY GAS MBH/IN (WG)	RECOVERY RATE @100 °F RISE (GPH)	TEMP RISE (°F)/FLOW (GPM)	OUTLET TEMPERATURE (°F)	VOLTAGE	PHASE	NPT RE		REMARKS
												CW	HW	
EWH-1	MECHANICAL ROOM	DOMESTIC HOT WATER	ELECTRIC TANK	119	24	-	98.4	-	140	480	3	1 1/4"	1 1/4"	1,2

## NOTE

- 1. PROVIDE 100 MICRON Y-STRAINER ON COLD WATER INLET.
- 2. PROVIDE THERMOSTATIC MIXING VALVE ASSE APPROVED.

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FILE NAME:
DESIGNED BY: S. SLIM

DRAWN BY: S. BURTE

CHECKED BY: F. ANDRADE

SHEET TITLE PLUMBING

SCHEDULES

SCALE:

12" = 1'-0" P-50

SHEET 42 OF 51

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