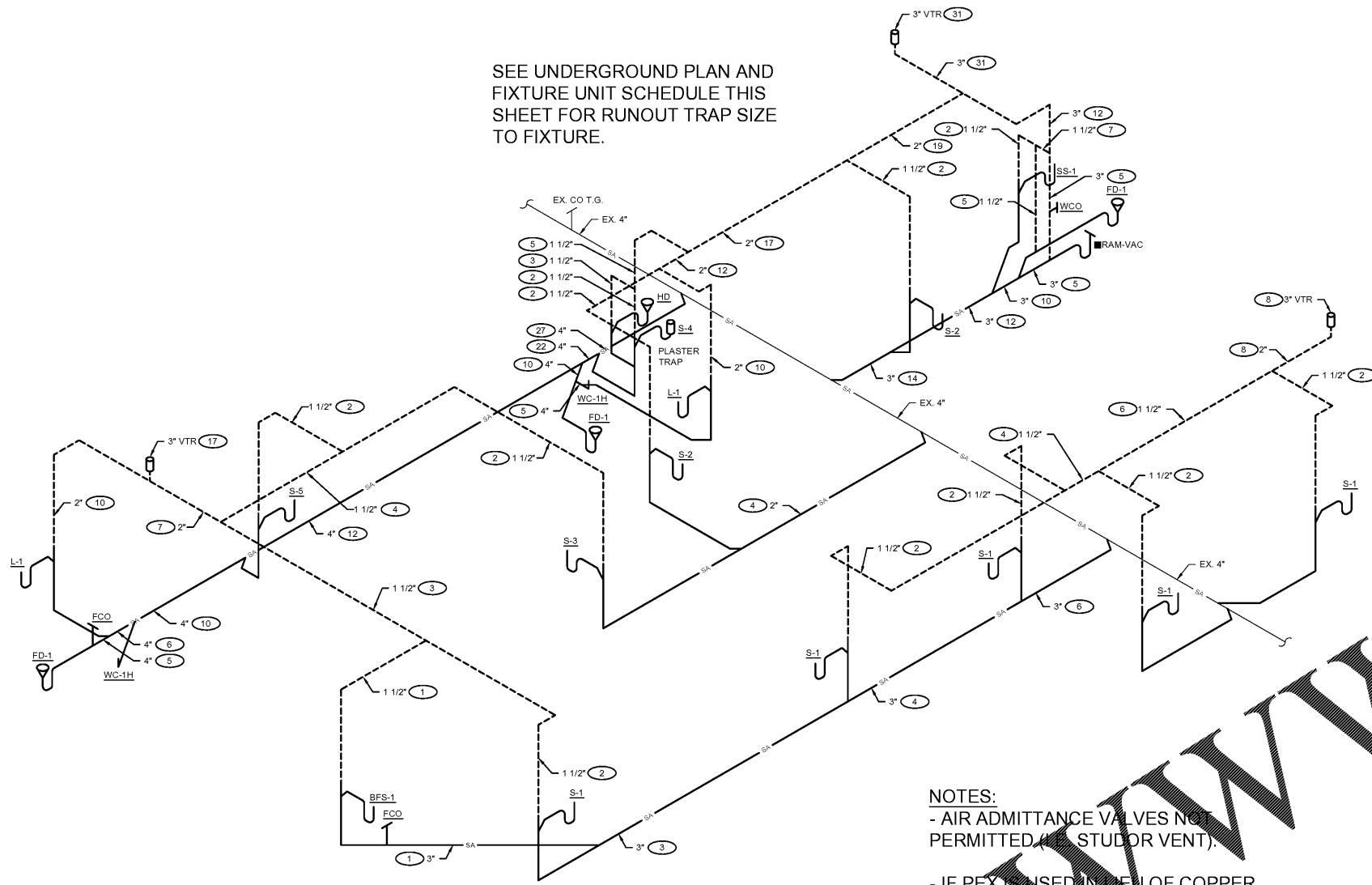


SEE UNDERGROUND PLAN AND
FIXTURE UNIT SCHEDULE THIS
SHEET FOR RUNOUT TRAP SIZE
TO FIXTURE.

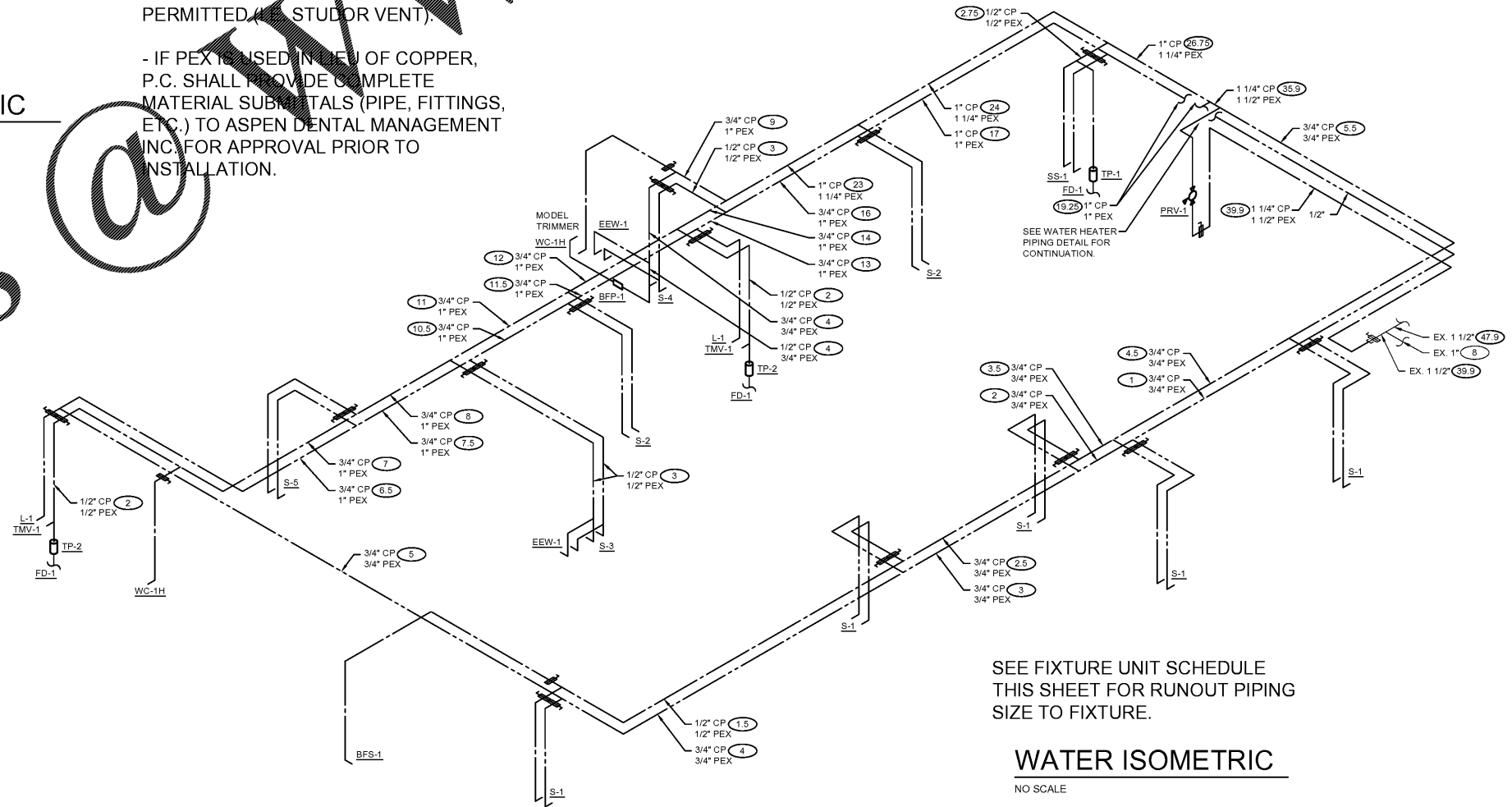


WASTE AND VENT ISOMETRIC
NO SCALE

FIXTURE UNITS

NO	FITTURE	WASTE			COLD WATER			HOT WATER			TOTAL WATER	
		UNITS	TOTAL	TRAP SIZE	UNITS	TOTAL	BRANCH SIZE	UNITS	TOTAL	BRANCH SIZE	UNITS	TOTAL
2	EX. HOSE BIB	-	-	-	4	8	3/4"	-	-	-	4	8
1	BOTTLING STATION	1	1	1 1/4"	0.5	0.5	1/2"	-	-	-	0.5	0.5
3	FLOOR DRAIN- 3"	5	15	3"	-	-	-	-	-	-	-	-
1	HUB OUTLET- 2"	3	3	2"	-	-	-	-	-	-	-	-
1	RAM-VAC	5	5	3"	-	-	-	-	-	-	-	-
2	LAV	1	2	1 1/4"	1.5	3	1/2"	1.5	3	1/2"	3	4
7	SINK- S-1 & 2	2	14	1 1/2"	1	7	1/2"	1	7	1/2"	1.5	10.5
2	SINK- S-3 & 4	2	4	1 1/2"	3	6	1/2"	3	6	1/2"	4	8
1	SINK- S-5	2	2	1 1/2"	1	1	1/2"	1	1	1/2"	1.4	1.4
1	SINK- SERVICE- 2"	2	2	2"	2.25	2.25	1 1/2"	2.25	2.25	1 1/2"	3	3
2	WATER CLO- TANK	4	8	-	5	10	1 1/2"	-	-	-	5	10
3	TRAP PRIMER	-	-	-	0.5	1.5	1/2"	-	-	-	1.5	1.5
1	MODEL TRIMMER	-	-	-	1	1	1/2"	-	-	-	1	1
27	TOTAL	-	56	-	40.25	19	1/2"	19	19	1/2"	47.9	47.9

NOTES:
- AIR ADMITTANCE VALVES NOT PERMITTED (EX. STUDOR VENT).
- IF PEX IS USED IN PLACE OF COPPER, P.C. SHALL PROVIDE COMPLETE MATERIAL SUBMITTALS (PIPE, FITTINGS, ETC.) TO ASPEN DENTAL MANAGEMENT INC. FOR APPROVAL PRIOR TO INSTALLATION.



SEE FIXTURE UNIT SCHEDULE
THIS SHEET FOR RUNOUT PIPING
SIZE TO FIXTURE.

WATER ISOMETRIC
NO SCALE

WATER CALCULATIONS

WATER PRESSURE DATA

1	STATIC PRESSURE AT MAIN	115	PSIG
2	RESIDUAL PRESSURE AT MAIN	95	PSIG
3	RESIDUAL FLOW AT MAIN	1565	GPM
4	BUILDING FIXTURE UNITS	47.9	F.U.
5	PREDOMINATE FLUSH TYPE	TANK	
6	CONTINUOUS FLOW GPM	0	GPM
7	BUILDING DEMAND	26.8	GPM
8	RESIDUAL PRESSURE AT BUILDING DEMAND	115.0	PSIG
9	SAFETY FACTOR	5	PSIG
10	PRESSURE AVAILABLE FOR DOMESTIC USE	110.0	PSIG

WATER SERVICE AND DISTRIBUTION SIZING DATA

11	ELEVATION OF RESIDUAL TEST HYDRANT	100.00	FEET
12	ELEVATION OF WATER METER	105.00	FEET
13	ELEVATION DIFFERENCE TEST HYDRANT TO METER	5.00	FEET
14	WATER METER SIZE	2	INCHES
15	DEVELOPED LENGTH MAIN TO METER	300	FEET
16	WATER SERVICE SIZE	2	INCHES

PRESSURE AVAILABLE AFTER METER

17	PRESSURE DROP BETWEEN MAIN AND METER	0.77	PSIG/100'
18	FRICTION PRESSURE LOSS BETWEEN MAIN AND METER	2.3	PSIG
19	ELEVATION PRESSURE LOSS BETWEEN MAIN AND METER	2.2	PSIG
20	METER PRESSURE LOSS	6	PSIG
21	BACKFLOW PREVENTER PRESSURE LOSS	0	PSIG
22	PRESSURE AVAILABLE AFTER METER	100.0	PSIG
23	PRESSURE SETTING OF PRV	0	PSIG
24	PRV PRESSURE LOSS	0	PSIG
25	AVAILABLE BUILDING WATER PRESSURE	67.0	PSIG

WATER DISTRIBUTION SIZING - COLD WATER

METER	Pipe Size	WSFU		PEX	A	WSFU	
		Flush tank	Flush tank			Flush tank	Flush tank
EEW-1	1/2"	5	3	3	19.83	19.83	19.83
STERILIZE*121"	1/2"	5	3	3	19.83	19.83	19.83
RECEPTION*101"	1/2"	5	3	3	19.83	19.83	19.83
30 PSIG	3/4"	16.5	6	6	8	8	8
3 FEET	1	31	20.5	3	3	31	20.5
0 PSIG	1 1/4"	58	34	0	0	1 1/4"	58
0 PSIG	1 1/2"	107	55	0	0	1 1/2"	107
35.7 PSIG	2	250	135	46.8	46.8	2	250
120 FEET	2 1/2"	469	250	105	105	2 1/2"	469
180 FEET	3	752	400	158	158	3	752
19.83 PSIG/100'	4	1792	950	29.71	29.71	4	1792

WATER DISTRIBUTION SIZING - HOT WATER

METER	Pipe Size	WSFU		PEX	A	WSFU	
		Flush tank	Flush tank			Flush tank	Flush tank
EEW-1	1/2"	5	3	3	17.00	17.00	17.00
TR #7*119"	1/2"	5	3	3	17.00	17.00	17.00
30 PSIG	3/4"	16.5	6	6	8	8	8
3 FEET	1	31	20.5	3	3	31	20.5
0 PSIG	1 1/4"	58	34	0	0	1 1/4"	58
0 PSIG	1 1/2"	107	55	0	0	1 1/2"	107
35.7 PSIG	2	250	135	29.3	29.3	2	250
140 FEET	2 1/2"	469	250	125	125	2 1/2"	469
210 FEET	3	752	400	188	188	3	752
17.00 PSIG/100'	4	1792	950	15.63	15.63	4	1792

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PROJECT INFORMATION

PROJECT NUMBER 1823380

TENANT BUILD-OUT FOR:
ASPEN DENTAL
4011 WARDS ROAD • LYNCHBURG, VA 24502

PROFESSIONAL SEAL

SHEET DATES

ISSUE DATE MAY 31, 2018

REVISIONS

NO.	DATE	DESCRIPTION

SHEET INFORMATION

ISOMETRICS & SCHEDULES

SHEET NUMBER

P2.0

Order Plans @