LEGEND							
SYMBOL	ABBR.	DESCRIPTION					
EWH 1		EQUIPMENT IDENTIFICATION EQUIPMENT NUMBER					
2 -		DETAIL NUMBER DRAWING NUMBER					
(x)		SHEET NOTE NO.					
•	POC	POINT OF CONNECTION					
+ 		BEAM PENETRATION  EXISTING PIPING TO BE REMOVED  SANITARY WASTE SLOPE AT 1/8" PER FOOT					
	W V CW	WASTE PIPING BELOW FLOOR VENT PIPING COLD WATER PIPING					
CD	HW CD	HOT WATER PIPING CONDENSATE DRAIN PIPING					
TPW	TPW	TRAP PRIMER WATER PIPING					
——————————————————————————————————————	DN UP	PIPE DOWN PIPE UP					
	CO	CLEAN OUT LINE CONTINUED					
——————————————————————————————————————	CV BV	CHECK VALVE BALL VALVE UNION					

ABBREVIATIONS						
ABBR.	DESCRIPTION AND AND AND AND AND AND AND AND AND AN					
ADA	AMERICAN WITH DISABILITY ACT					
CW	COLD WATER					
CD	CONDENSATE DRAIN					
CISPI	CAST IRON SOIL PIPE INSTITUTE					
CO	CLEAN OUT					
CPC	CALIFORNIA PLUMBING CODE					
CTE	CONNECT TO EXISTING					
DN	DOWN					
DW	DISHWASHER					
(E)	EXISTING PIPING					
FT	FEET					
GAL	GALLONS					
GD	GARBAGE DISPOSAL					
GPF	GALLON PER FLUSH					
GPH	GALLON PER HOUR					
GPM GALLON PER MINUTE						
HP	HORSEPOWER OR HEAT PUMP					
KW	KILOWATT					
LBS.	POUNDS					
MAX	MAXIMUM					
MFR.	MANUFACTURER					
MIN	MINIMUM					
(N)	NEW PIPING					
NTS	NOT TO SCALE					
PSI	POUNDS PER SQUARE INCH					
PW	PUMPED WASTE					
RCW	RECLAIMED WATER					
REF	REFRIGERATOR					
SAD	SEE ARCHITECTURAL DRAWING					
SMD	SEE MECHANICAL DRAWING					
SK	KITCHEN SINK					
SSK	SERVICE SINK					
TEMP.	TEMPERATURE					
V	SANITARY VENT OR ELECTRIC VOLT					
W	SANITARY WASTE					
WC	WATER CLOSET					
W/	WITH					

#### PLUMBING GENERAL NOTES

- 1. PROVIDE PLUMBING SYSTEM CONFORMING TO BUILDING STANDARDS.
- 2. ORDINANCES AND REGULATIONS: ALL SYSTEMS SHALL BE INSTALLED WITH STRICT ACCORDANCE WITH ALL APPLICABLE 2016 CALIFORNIA PLUMBING CODES, 2016 CALGREEN, AND LOCAL AMENDMENTS OR ORDINANCES, AND SHALL MEET OTHER AUTHORITIES HAVING JURISDICTION.
- 3. THIS CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE START OF THIS WORK.
  DISCREPANCIES, IF ANY MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.
  CONTRACTOR SHALL VISIT SITE AND BE FULLY COGNIZANT OF ALL CONDITIONS PRIOR TO
  SUBMISSION OF BID.
- 4. THIS CONTRACTOR SHALL SET PLUMBING FIXTURES TO ELEVATIONS AND LOCATIONS SHOWN ON ARCHITECTURAL PLANS.
- ARCHITECTURAL PLANS.

  5. THIS CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES FOR CLEARANCES AND WORK
- 6. ALL FIXTURES SHALL BE PROTECTED DURING CONSTRUCTION FROM ANY DAMAGES. REFINISHED FIXTURES WILL NOT BE ACCEPTABLE UNDER ANY CONDITIONS.
- 7. SAD FOR DETAILS AND LOCATIONS OF THE HANDICAPPED USE PLUMBING FIXTURES AND MUST BE MOUNTED AS SHOWN TO ADA MEET REQUIREMENT.
- 8. ALL PLUMBING EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST HORIZONTAL FORCES ACTING IN ANY DIRECTION IN ACCORDANCE WITH THE LATEST CALIFORNIA/CITY OF RICHMOND
- 9. CONNECTION BETWEEN COPPER AND IRON AND STEEL PIPE SHALL BE MADE WITH DIELECTRIC ISOLATING UNIONS.
- 10. SUBMITTALS: ALL PLUMBING EQUIPMENT, PLUMBING FIXTURES AND CONTROLS SHALL BE SUBMITTED TO THE ARCHITECT. SAD, PLUMBING FIXTURES SCHEDULES FOR SPECIFICATIONS.
- 11. PLUMBING CONTRACTOR SHALL PROVIDE PLUMBING PIPING MATERIALS AS FOLLOWS:
- A. DOMESTIC WATER HOT AND COLD: TYPE "L" HARD DRAWN COPPER ASTM A88; JOINTS: ASTM B32 ALLOY GRADE, 95/5 SOLDER, LEAD FREE; FITTINGS: ANSI B16.22 WROUGHT COPPER. 300 PSI.
- B. SOIL, WASTE AND VENT ABOVEGROUND: ANSI A112.5.1 CAST IRON SOIL, PLAIN END (HUBLESS) SERVICE WEIGHT WITH NEOPRENE SLEEVE AND STAINLESS STEEL SHIELD JOINTS, CISPI 301 AND ASTM C-564. CONTRACTOR'S OPTION: COPPER DWV DRAINAGE TYPE MAY BE USED FOR PIPE SIZES 2" AND SMALLER.
- C. CONDENSATE DRAIN: TYPE "M" HARD DRAWN COPPER; JOINTS: ASTM B32 ALLOY GRADE, 95/5 SOLDER; FITTINGS ANSI B16.22, WROGHT COPPER.
- D. AIR CHAMBERS: PROVIDE ON ALL COLD AND HOT WATER CONNECTIONS ARRESTOR, 18" HIGH AND DIAMETER SAME SIZE AS SUPPLY. NIBCO MODEL 620L.
- E. FIXTURE SUPPLIES AND STOPS:

INCLUDED PRIOR TO START OF WORK.

- SINKS SPEEDWAY CRSST-1912-K OR APPROVED SUBSTITUTE.
- F. KITCHEN SINK TRAP: 17 GAUGE ADJUSTABLE "P" TRAPS, TUBING TO WALL. POLISHED CHROME PLATED. PROVIDE CHROME PLATED ESCUTCHEON TO WASTE LINE AND WATER LINE GOING THROUGH WALL.
- G. BALL VALVES: NIBCO S-585-80-LF, LEAD FREE, PTFE SEAT, NSF APPROVE 600 PSI RATING AT NON-SHOCK COLD WATER PRESSURE; 100 PSI @ 300°F.
- H. PIPING SUPPORTS/HANGERS: USE SUPER STRUT, UNISTRUT, B-LINE, ELCEN OR GRINNELL HANGERS AND ATTACHMENT TO PROPERLY SUPPORT THE PIPING SYSTEM ACCORDING TO GOOD STANDARD PRACTICE AND ACCORDING TO MANUFATURER'S RECOMMENDATIONS. MINIMUM SAFETY FACTOR OF 5.0. NO WATER PIPING SHALL HAVE DIRECT CONTACT WITH THE HANGING AND SUPPORT SYSTEM OR THE STRUCTURE. ON PIPES THAT ARE INSULATED, RUN THE INSULATION CONTINUOUS THROUGH THE HANGER AND PROVIDE SHEET METAL SHIELDS OF PROPER LENGTH AND GAGES. ON UNINSULATED COPPER PIPING, USE STONEMAN "TRISOLATOR" OR SIMILAR DEVICE AT EACH HANGER OR SUPPORT POINT.
- I. INSULATION: PROVIDE TO ALL HOT WATER PIPING 1.5" PRE-MOLDED FIBERGLASS WITH ASJ, R-4 MINIMUM. MANUFACTURER: OWENS-CORNING FIBERGLASS, ARMSTRONG, MANVILLE OR CERTAIN-TEED.
- J. ALL OTHER MATERIALS NOT SPECIFICALLY DESCRIBED BUT REQUIRED FOR A COMPLETE AND PROPER INSTALLATION SHALL BE NEW, FIRST QUALITY OF THEIR RESPECTIVE KINDS, AND SUBJECT TO THE APPROVAL OF THE ARCHITECT.
- K. ALL DESIGNATED FIXTURES FOR HANDICAPPED SHALL BE INSTALLED PER CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2, HANDICAPPED REQUIREMENTS. WRAP P-TRAP, COLD AND HOT WATER TUBING AND STOPS WITH SKAL+GARD MODELS SG 101 AND SG 102, OR APPROVED EQUAL, TO PROTECT AGAINST SCALDING AND SCRAPING.
- 12. STERILIZATION OF DOMESTIC COLD WATER PIPES: AFTER PRELIMINARY PURGING, CLEANING, AND FLUSHING OF THE SYSTEM, CHLORINATE THE ENTIRE POTABLE DOMESTIC WATER SYSTEM IN ACCORDANCE WITH THE CURRENT RECOMMENDATIONS OF THE AMERICAN WATER WORKS ASSOCIATION AND IN ACCORDANCE WITH ALL PERTINENT STATE AND LOCAL HEALTH CODES AND REGULATIONS. CHLORINATE ONLY WHEN PRESCHEDULED AND PROVIDE PROPER WARNING SIGNS AT OUTLETS. UPON COMPLETION OF THE STERILIZATION, THOROUGHLY FLUSH THE ENTIRE POTABLE WATER SYSTEM AND IMMEDIATELY FILL THE SYSTEM. WHEN STERILIZATION AND FLUSHING ARE COMPLETE, ARRANGE WITH PERTINENT AGENCIES FOR ALL REQUIRED TESTS ON SYSTEMS.
- 13. CONNECTIONS TO ALL APPLIANCES, FIXTURES, ETC. SHALL BE MADE USING COPPER TUBING WITH ADEQUATE SLACK OR STAINLESS STEEL FLEXIBLE HOSE RATED AT MINIMUM 200 PSI. PLASTIC TUBING IS NOT ALLOWED.
- 14. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED PLUMBING FIXTURES, SINK, LAVS, FLUSH VALVES, FAUCETS AND ASSOCIATED ACCESSORIES INDICATED OR IMPLIED ON THE ARCHITECTURAL AND PLUMBING PLANS INCLUDING ALL REQUIRED UTILITY CONNECTIONS, SUPPORTS, CARRIERS, ETC. REFER TO ARCHITECTURAL PLANS FOR THE PLUMBING FIXTURE SCHEDULES.
- 15. ALL POTABLE WATER PIPING, FITTING, FAUCETS, VALVES, ETC. THAT COME IN CONTACT WITH POTABLE WATER SHALL BE MADE OF LEAD-FREE MATERIAL AND AB 1953 LISTED.

### FIRE PROTECTION DESIGN CRITERIA

- 1. SCOPE: DESIGN, FURNISH AND INSTALL ALL REQUIRED LABOR, MATERIALS, EQUIPMENT, TESTING, AND CONTRACTOR SERVICES NECESSARY FOR COMPLETE SPRINKLER SYSTEM FOR SCOPE OF WORK. ADD NEW HEADS, SPRINKLER LINES, ETC.; DESIGN AND LAYOUT PIPING AS REQUIRED. ALL SPRINKLER HEADS MUST BE INSTALLED PER CODE; FINAL SPRINKLER HEAD LOCATIONS SUBJECT TO APPROVAL BY ARCHITECT AND FIRE MARSHALL. REFER TO ARCHITECTURAL DRAWINGS FOR AREA OF WORK.
- 2. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST APPLICABLE NFPA 13, CALIFORNIA FIRE CODE, CALIFORNIA BUILDING CODE AND CITY OF RICHMOND FIRE DEPARTMENT ORDINANCES, LAWS AND REGULATIONS.
- 3. CONTRACTOR SHALL DETERMINE SIZE AND LOCATION OF EXISTING PIPING/ RISER AND PROPER SIZING OF NEW PIPING. HYDRAULIC CALCULATIONS ARE REQUIRED FOR ALL FIRE PROTECTION WORK WITH SPRINKLER ADDITIONS.
- 4. CONTRACTOR SHALL SIZE PIPING BASED ON THE HYDRAULIC CALCULATIONS AND SHALL INCLUDE IN THE BID, ALL COSTS FOR THE UPSIZING OF EXISTING PIPING TO MEET CODE. CALCULATION SHALL BE BASED ON SUPPLY FROM REMOTE RISER PER CITY OF BURLINGAME FIRE CODE. THESE REQUIREMENTS MAY BE IN ADDITION TO THAT REQUIRED BY THE CITY OF RICHMOND FIRE DEPARTMENT.
- 5. ALL PERMITS, APPROVALS, INSPECTIONS, EXAMINATIONS, AND TESTS REQUIRED BY THE AUTHORITIES AND/OR AGENCIES SHALL BE ARRANGED AND PAID FOR BY THE SPRINKLER CONTRACTOR AS NECESSARY TO OBTAIN COMPLETE AND FINAL ACCEPTANCE OF THE FIRE PROTECTION SYSTEM.
- 6. THE FIRE PROTECTION CONTRACTOR SHALL BE C-16 LICENSED CONTRACTOR AND SHALL BE THE ENGINEER OF RECORD FOR THE AUTOMATIC SPRINKLER SYSTEM.
- 7. CONTRACTOR SHALL VISIT JOB SITE PRIOR TO SUBMISSION OF BID AND SHALL EXAMINE ALL CONDITIONS AND CONTACT BUILDING CHIEF ENGINEER. CONTRACTOR TO CHECK THE FIT OF ALL NEW WORK AND SHALL SO STATE IN HIS BID. GENERAL OR SPECIFIC EXCLUSIONS ARE NOT ACCEPTABLE. NO EXTRAS WILL BE APPROVED DURING CONSTRUCTION BASED ON PIPING AND SPRINKLER HEAD FITTING PROBLEMS.
- 8. ALL PIPING SHALL BE SCHEDULE 40 BLACK STEEL.
- 9. SPRINKLER HEADS SHALL BE PER BUILDING STANDARDS. PROVIDE ALL NEW SPRINKLER HEADS.
- 10. ROUTE NEW SPRINKLER LINES TO CLEAR ALL DUCTWORK, PIPING, LIGHT FIXTURES, EQUIPMENT, AIR OUTLETS, ETC.
- 11. CENTER ALL SPRINKLER HEADS IN ACOUSTICAL TILE.
- 12. FOLLOW BUILDING CONSTRUCTION STANDARDS.
- 13. RE-ROUTE/RELOCATE EXISTING SPRINKLER LINES (MAIN AND BRANCH) AND HEADS TO FACILITATE INSTALLATION OF NEW AND RELOCATED HVAC EQUIPMENT (VAV BOXES, HEAT PUMP(S), AND ASSOCIATED DUCTWORK AND PIPING) IN CEILING AND TO ACCOMMODATE NEW CEILING HEIGHTS. REFER TO MECHANICAL DRAWINGS FOR LOCATION OF ALL EQUIPMENT, SPRINKLER CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR REGARDING THESE EQUIPMENT.
- 14. PROVIDE CODE REQUIRED END OF THE LINE SEISMIC RESTRAINTS THROUGHOUT.

	DRAWING INDEX
DWG. NO.	DESCRIPTION
1P0.0.1	1ST FLOOR — GENERAL NOTES, LEGEND, AND DRAWING INDEX
1P1.0.1	1ST FLOOR - PLUMBING RISER DIAGRAMS, DETAIL AND SCHEDULES
1PD1.0.1	1ST FLOOR - PLUMBING DEMOLITION PLAN
1P2.0.1	1ST FLOOR - PLUMBING FLOOR PLAN

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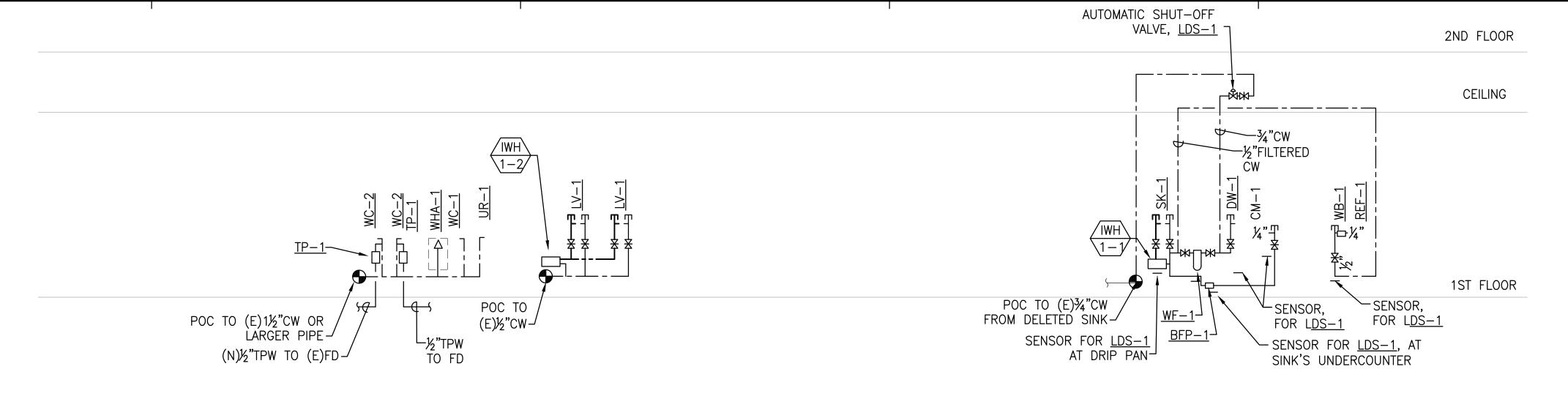
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1ST FLOOR -GENERAL NOTES, LEGEND AND DRAWING INDEX

Scale: NONE Issue Date: 17AI
Drawn By: PT Reviewed By:
Sheet: 1 of 4

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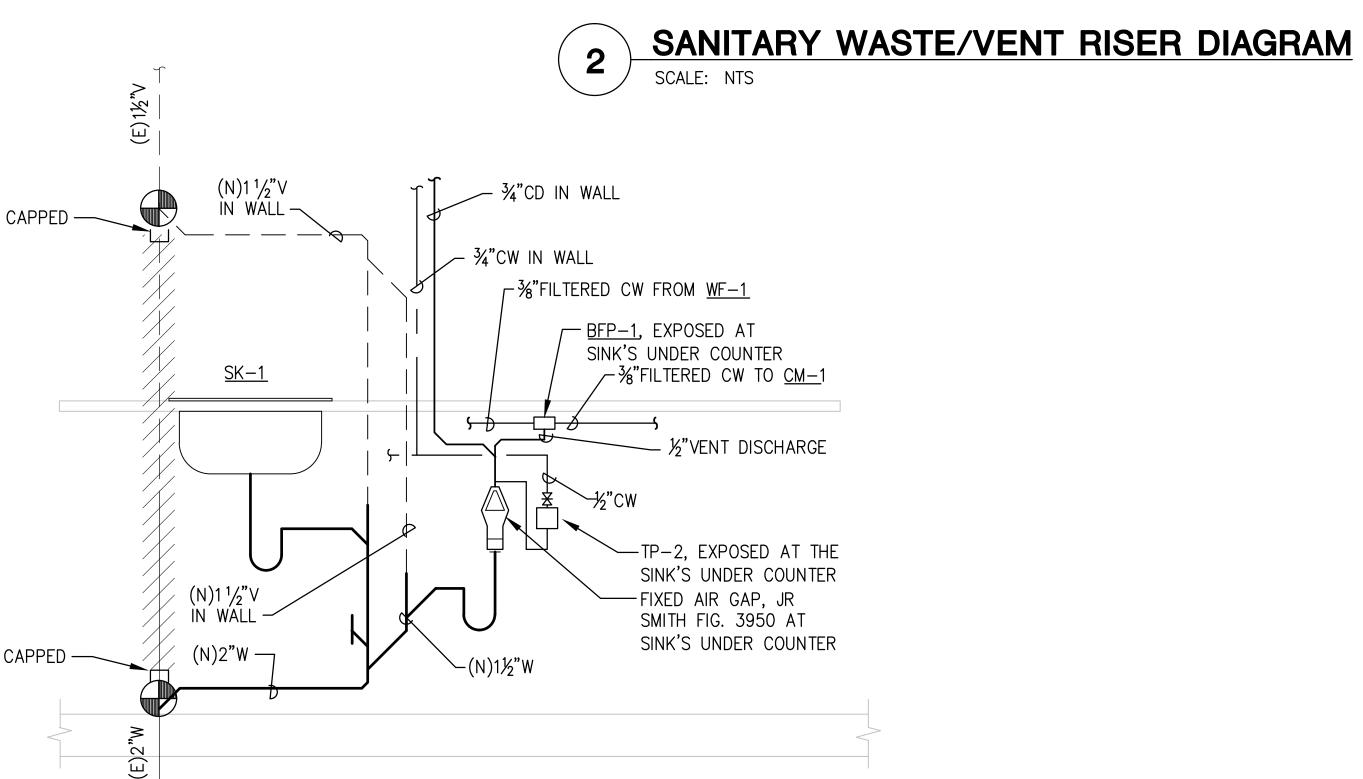
- 1. FIELD VERIFY ALL POINT OF CONNECTIONS.
- 2. SET HW OUTLET FOR WATER HEATER AT 110°F.
  3. PROVIDE DRIP PAN AT WATER HEATER.

# DOMESTIC COLD/HOT WATER RISER DIAGRAM SCALE: NOT TO SCALE

POC TO (E)2"W FROM DELETED SINK

TIST FLOOR

- 1. FIELD VERIFY ALL POINT OF CONNECTIONS.
- 2. PROVIDE CODE REQUIRED SLOPE FOR ALL NEW WASTE LINES.



3 INDIRECT DRAIN TERMINATION DETAIL
SCALE: NONE

PLUMBING EQUIPMENT									
CODE	DESCRIPTION — FLOOR FINISH	MANUFACTURER	REMARKS						
BFP-1	P-1 BACKFLOW PREVENTER WATTS MODEL SD		1/4"	PROVIDE WITH STRAINER					
LDS-1	LEAK DETECTION SYSTEM	FIRST SMART SENSOR INC.; OR APPROVED EQUAL	3/4"	FULLY AUTOMATED WATER LEAK DETECTION AND CONTROL SYSTEM, CONSISTING OF AUTOMATIC SHUT OFF VALVE (SOENOID), SENSORS AND CONTROL WITH ALARM. SYSTEM SHALL MEET CA AND SF PLUMBING CODES. ENTIRE SYSTEM SHALL BE LEAD FREE. PROVIDE ADAPTER FOR 120V SOURCE					
VHA-1	WATER HAMMER ARRESTOR	J.R. SMITH 5010	1	PROVIDE WITH 8"X8" ACCESS PANEL					

WATER HEATER SCHEDULE									
CODE	MFR	MODEL	LOCATION	ELECTRIC INPUT	GPH	TEMP.	WORKING	WEIGHT WITH WATER	RFMARKS
		00	ROOM NO.	V/KW/PH		RISE	PRESS. (MIN.)	(LBS.)	
IWH 1-1	CHORNOMITE	E-46LLP	PANTRY 105	277V/4.6KW/1PH	_	42°F AT 0.75 GPM	42 PSI	8	TANKLES: TYPE
$\left  \begin{array}{c} \overline{\text{IWH}} \\ 1-2 \end{array} \right $	CHORNOMITE	E-70LLP	MEN'S ROOM 108	277V/7.0KW/1PH	_	64°F AT 0.75 GPM	42 PSI	8	TANKLES: TYPE

#### NOTE:

- 1. WATER HEATER SHALL MEET ALL EFFICIENCY REQUIREMENTS OF TITLE 24 AND AS LISTED IN THE APPLIANCE
- 2. PROVIDE DRIP PAN UNDER WATER HEATER WITH <u>LDS-1</u> SENSOR AT PANTRY ROOM

∠.	INOVIDE	וואוט	1 /\!\	ONDE	/ W//	$\vdash$
3.	PROVIDE	SENS	OR A	T THE	DRIP	PAI

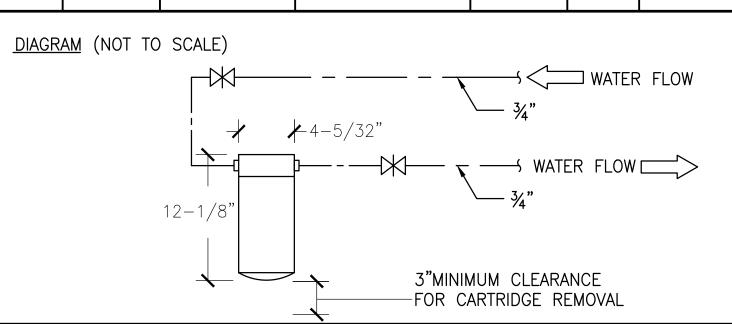
PLUMBING FIXTURE CONNECTION SCHEDULE									
CODE	DESCRIPTION	SOIL- WASTE	TRAP	VENT	CW	HW	REMARKS		
WC-1	WATER CLOSET	4"	_	2"	1½"	_	1		
WC-2	WATER CLOSET (ADA)	4"	_	2"	1½"	_	1		
UR-1	URINAL (ADA)	2"	_	2"	3/4"	_	2		
LV-1	LAVATORY (ADA)	2	1¼"X1½"	1½"	1/2"	1/2"	3		
SK-1	KITCHEN SINK	2	1¼"X 1½"	1½"	1/2"	1/2"	4		
CM-1	COFFEE MAKER	_	_	_	3/8"	_	5		
DW-1	DISHWASHER	_	_	_	1/2"	_	6		
REF-1	REFRIGERATOR	_	_	_	1/4"	_	7		
WB-1	WATER BOX	_	_	_	1/2"	_	8		
WF-1	WATER FILTER	_	_		3⁄4"	_	9		

#### NOTE:

2ND FLOOR

- 1) SAD FOR SPECIFICATION TO FIXTURE COMPLETE WITH SENSOR FLUSH VALVE AND TOTO SC534 OPEN FRONTLESS SEAT, FLOW RATE TO CONFORM TO CAL-GREEN REQUIREMENT OF 1.28 GPF OR LESS, SEAT TO BE FRONT LESS. SAD FOR MOUNTING HEIGHT OF ADA COMPLIANT WATER CLOSET.
- 2 SAD FOR SPECIFICATION TO FIXTURE AND FLUSH VALVE, FLOW RATE TO CONFORM TO CAL-GREEN REQUIREMENT OF 0.125 GPF OR LESS. SAD FOR MOUNTING HEIGHT OF ADA COMPLIANT URINAL.
- 3 SAD FOR SPECIFICATION OF FIXTURE AND FAUCET, FLOW RATE TO CONFORM TO CAL-GREEN REQUIREMENT OF 0.5 GPM OR LESS. PROVIDE AERATOR IF REQUIRED TO MINIMIZE FLOW RATE.
- 4 SAD FOR SINK AND FAUCET SPECIFICATION. FAUCET SPECIFIED FLOW RATE IS 1.8 GPM, PASS CAL-GREEN REQUIREMENT FOR KITCHEN FAUCET.
- 5 SAD FOR SPECIFICATION, PROVIDED BY OTHERS. CONTRACTOR TO PROVIDE %"FILTERED CW CONNECTION WITH
- 6 SAD FOR SPECIFICATION OF DISHWASHER. DISHWASHER TO BE THE TYPE THAT CAN RUN ON COLD WATER AND HAS AN INTERNAL HEATER. PROVIDE COLD WATER SUPPLY AND TERMINATE DRAIN TO SINK'S TAILPIECE WITH APPROVE AIR GAP.
- $\bigcirc$  SAD FOR SPECIFICATION. PROVIDE  $\frac{1}{4}$ "FILTERED COLD WATER FROM  $\frac{WB-1}{4}$ .
- 8 PROVIDE GUY GRAY MODEL BIM 875
- (9) SEE WATER FILTER SCHEDULE

WATER FILTER SCHEDULE									
CODE	MFR	PART NUMBER	MODEL NUMBER	WORKING PRESS.	MAX FLOW	CONNECTIONS	LOCATION	NOTES	
				(PSI)	(GPM)		ROOM NO.		
WF-1	3M AQUAPURE	55920-01	SST1HA	300	8	19/4 HURI/UNIAL	UNDER COUNTER PANTRY 105	SEE NOTES	



### NOTES:

- 1. PROVIDE SUPPLEMENTAL SUPPORTS AS REQUIRED TO INSTALL IN UNDER COUNTER CABINET.
- 2. INSTALL IN VERTICAL POSITION.
- INSTALL AND FLUSH CARTRIDGES PER MANUFACTURER'S RECOMMENDATIONS.
   AREA UNDER FILTER ASSEMBLY SHALL BE FREE OF ELECTRICAL DEVICES/ EQUIPMENT.
- 5. 316 STAINLESS STEEL HEAD.6. 304 STAINLESS HOUSING.

## DRAIN, CLEANOUT, TRAP PRIMER, ETC. SCHEDULE

CODE	DESCRIPTION	MANUFACTURER MODEL NUMBER	CONN.	TOP GRATE MATERIAL	GRATE SIZE	REMARKS
WCO-1	WALL CLEANOUT	JR SMITH 4452C	2"-4"	_	_	W/ S/S COVER
FD-1	FLOOR DRAIN	MIFAB F1000-7	2"			WITH 1/2" TRAP PRIMER CONNECTION
TP-1	TRAP PRIMER	SLOAN VBF-72-A OR APPROVED EQUAL	1/2"	_	_	ATTACHED TO FLUSH VALVE, CONTRACTOR TO PROVIDE SAME MANUFACTURER WITH FLUSH VALVE
TP-2	TRAP PRIMER	MIFAB MR-500	1/2"			3 PSI ACTIVATION
FCO-1	FLOOR CLEANOUT	JR SMITH 4023S	2"-4"	_	_	ROUND NICKEL, ADJUSTABLE TOP
	_					

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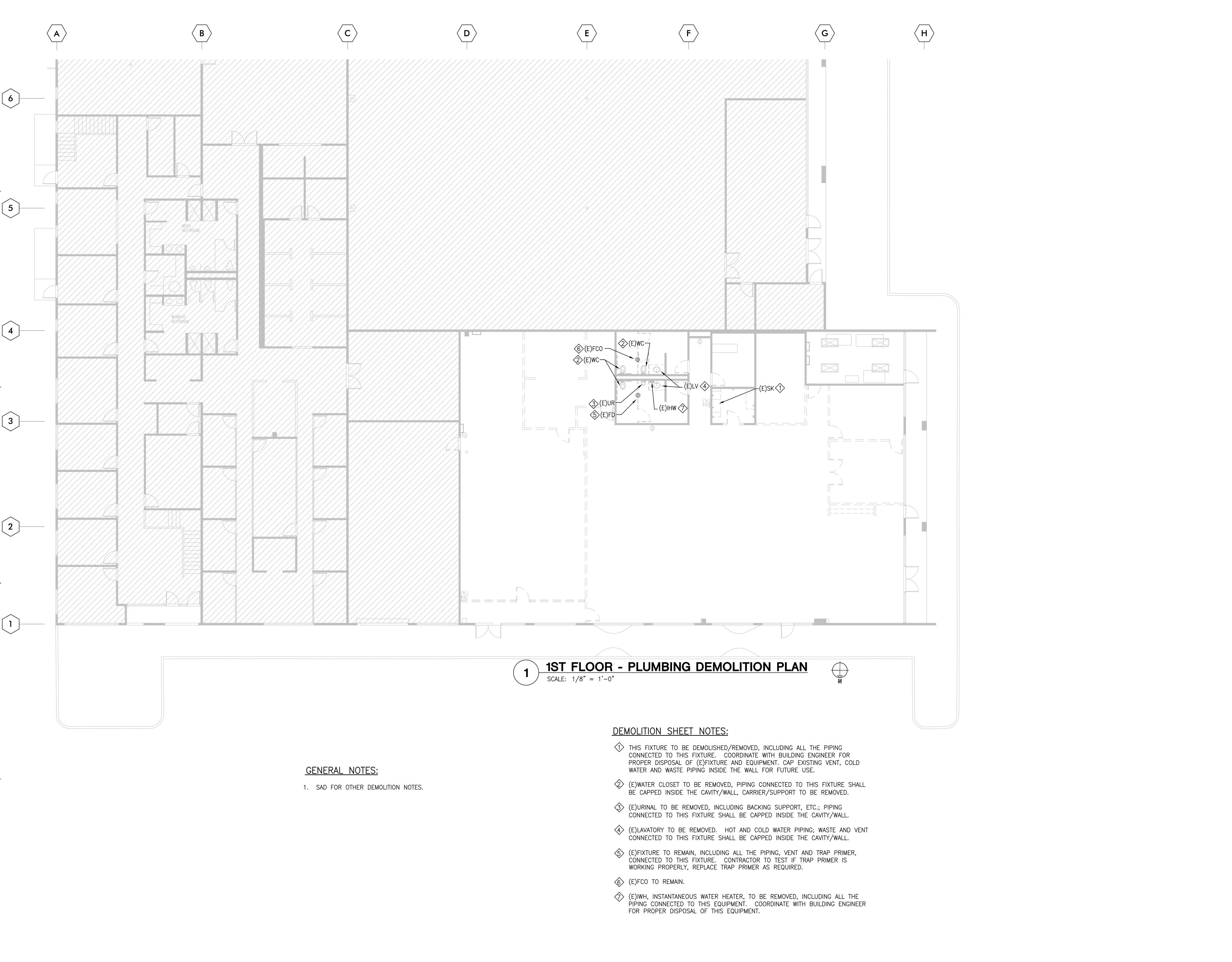
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1ST FLOOR PLUMBING RISER,
DIAGRAMS, DETAIL,

AND SCHEDULES

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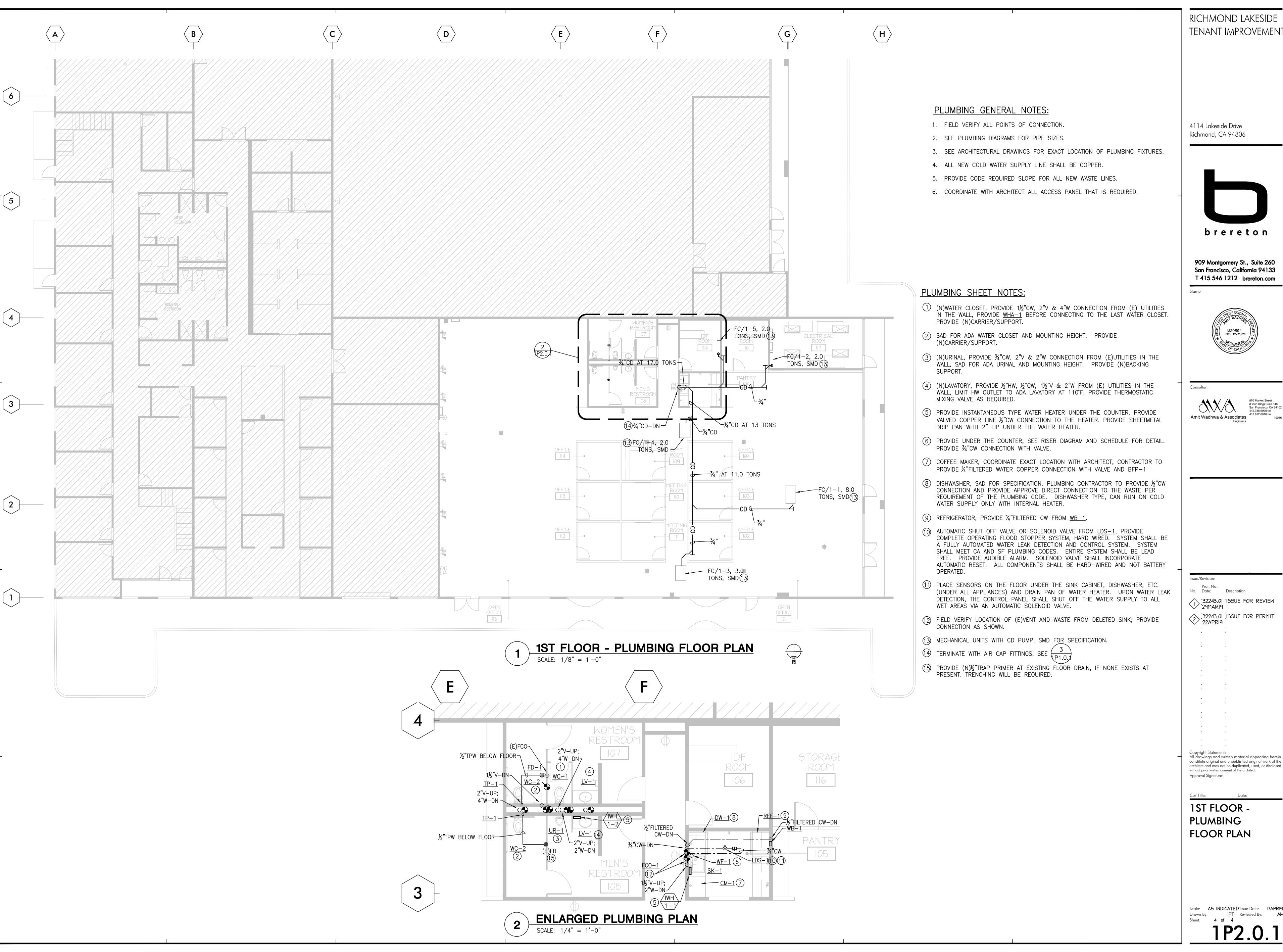
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1ST FLOOR -PLUMBING DEMOLITION PLAN

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