SCOPE OF WORK

PROVIDE ALL PLUMBING FOR SWEATHOUZ INCLUDING ALL WATER, SANITARY LINES AND CONNECT TO EXISTING UTILITIES. PROVIDE NEW ELECTRIC STORAGE TANK WATER HEATER.

COORDINATE WITH GC AND MECH CONTRACTOR FOR ANY REQUIRED CONDENSING

PLUMBING NOTES

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE LOCAL CODES, RULES AND ORDINANCES.
 PLUMBING CONTRACTOR SHALL REVIEW ALL DRAWINGS OF THIS SET.
 CONTRACTOR TO VERIFY THAT ALL EQUIPMENT SHOWN AS EXISTING MATCHES THE DESCRIPTIONS AND SPECIFICATIONS SHOWN ON DRAWINGS AND SCHEDULES. IF DIFFERENT NOTIFY ARCHITECT/ENGINEER BEFORE BIDDING, ORDERING OR PRECEDING WITH WORK.
- ALL EQUIPMENT WHICH IS TO REMAIN MUST BE REFURBISHED TO A LIKE NEW
- PLUMBING CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS.
- ALL MATERIALS SHALL BE NEW. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY
- OPERATIVE. ALL EXCAVATION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT. REQUIRED INSURANCE SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE
- PLUMBING CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTION AND TESTS. PLUMBING CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT. PLUMBING CONTRACTOR MUST BE PRESENT FOR ALL INSPECTIONS OF HIS WORK
- BY REGULATORY AUTHORITIES. DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE FOR THE EXACT LOCATION OF FIXTURES, PIPING, EQUIPMENT, ETC.
- 10. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION. REPORT ANY DISCREPANCY TO ENGINEER/ARCHITECT PRIOR TO BEGINNING CONSTRUCTION.

 11. VERIFY LOCATION, SIZE, DIRECTION OF FLOW AND INVERTS OF ALL EXISTING
- UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION. ADVISE ENGINEER OF ANY DISCREPANCIES
- 12. EXPOSED WATER PIPING SHALL BE TYPE "L" COPPER FOR 2" AND UNDER. WATER PIPING IN WALLS AND UNDERGROUND MAY BE "PEX" TYPE PIPING THAT MEETS ANSI/NSF STANDARD 61.
- 13. SOIL, WASTE, VENT AND RAINWATER PIPING SHALL BE PVC BUT MAY NOT RUN THRU RATED ASSEMBLIES OR IN PLENUMS.
- 14. ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS AND APPROPRIATELY MARKED ACCESS PANELS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
- 15. FURNISH AND INSTALL APPROVED AIR CHAMBERS AT EACH PLUMBING FIXTURE GROUP AS PER CODE AND WITH GOOD ENGINEERING PRACTICE. 16. DIELECTRIC COUPLINGS ARE REQUIRED BETWEEN ALL DISSIMILAR METAL IN
- PIPING AND EQUIPMENT CONNECTIONS; EXCEPT AT WATER HEATER AS PER CODE. 17. ISOLATE COPPER PIPE FROM HANGER OR SUPPORTS WITH ISOLATOR PAD. 18. ALL FIRE RATED FLOOR AND WALL PENETRATIONS SHALL BE PROPERLY
- PROTECTED FROM FIRE, SMOKE AND WATER PENETRATION BY FILLING VOIDS BETWEEN PIPE AND WALL/FLOOR SLEEVES WITH FIRE RATED FOAM, TO ACHIEVE THE SAME RATING AS WALLS OR FLOORS AS PART OF THE PLUMBER'S WORK.
- 19. PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF CERTIFICATE OF OCCUPANCY. CORRECTION OF ANY DEFECTS
 SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE WITHIN 72 HOURS OF NOTIFICATION AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED.
- 20. STUDOR MINI/MAXI AIR ADMITTANCE VALVES MAY NOT BE USED AS AN ALTERNATE TÓ VENT PIPING THRU ROOF.
- 21. PROVIDE CHROME PLATED COMBINATION COVER PLATE AND CLEAN OUT PLUG OR ACCESS PANEL FOR ALL CLEANOUTS. 22. NO COMBUSTIBLE MATERIAL TO BE USED IN MECHANICAL ROOMS OR IN CEILING
- SPACES WHERE USED AS RETURN AIR PLENUMS. 23. NO WATER, SANITARY OR DRAINAGE PIPING PERMITTED IN ELECTRICAL OR ELEVATOR EQUIPMENT ROOMS.
- 24. WATER PIPING INSULATION SHALL BE 1" THICK ARMAFLEX INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS FOR ALL HOT WATER PIPING. WHERE DOMESTIC WATER TEMPERATURES CAN CAUSE SWEATING, ALL COLD WATER PIPING SHALL BE INSULATED WITH 1/2" THICK ARMAFLEX
- 25. CONDENSATE DRAIN LINES TO BE RUN UNDER SLAB IN PVC SCH40 PIPE AND STUBBED OUT OF WALL TO UNIT. TIE-IN OF A/C TO BE BY OTHERS. PVC PIPING WITH 1/2" THICK ARMAFLEX INSULATION MAY BE USED IN LOCATIONS WHERE ALLOWED BY LOCAL CODES. SEE PLUMBING DRAWINGS FOR SIZE AND LOCATION
- OF PIPING. PVC WILL BE MIN. SCHEDULE 40 FOR SIZE AND LOCATION OF PIPING. PVC WILL BE MIN. SCHEDULE 40. 26. PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURES FOR
- INDIVIDUAL SHUT-OFF.
- 27. NO JOINTS UNDERGROUND FOR COPPER.
 28. PLUMBING FIXTURES SHALL COMPLY WITH SEATTLE PLUMBING CODE.
 29. WATER HAMMER ARRESTORS AS PER SEATTLE PLUMBING CODE.
 30. PLUMBING CONTRACTOR TO PROVIDE ANTI-SCALDING VALVE FOR TUBS AND
- 31. PLUMBING CONTRACTOR SHALL REVIEW ALL BID DOCUMENTATION.
 32. PLUMBING CONTRACTOR SHALL REVIEW WALL FINISHES @ LOCATION REQUIRING
- BARRIER-FREE COMPLIANCE (EXAMPLE: CENTER LINE TO TOILET) 33. CONSTRUCTION "AS BUILT" DRAWINGS AND DOCUMENTS SHALL BE PROVIDED TO
- THE OWNER WITHIN 30 DAYS AFTER THE DATE OF ACCEPTANCE 34. OPERATION MANUALS AND MAINTENANCE MANUALS SHALL BE PROVIDED TO
- 35. EXISTING SLAB SITS ON TOP OF A LAYER OF A RIGID FOAM INSULATION, WITH A STRUCTURAL SLAB BELOW. STRUCTURAL SLAB BELOW SHALL NOT BE DISTURBED. THE STRUCTURAL SLAB MUST BE X-RAYED PRIOR TO PERFORMING ANY

EXISTING CONTIDITONS NOTES

STOP AND READ

GREATER THAN 104°F (40°C).

THE CONTRACTOR AND SUB-CONTRACTORS SHALL NOT INITIATE ANY WORK UNTIL EXISTING FIELD CONDITIONS ARE PROPERLY VERIFIED. THIS SHALL HOLD TRUE FOR FIRST GENERATION AND 2ND GENERATION SPACES. WHEN DEMOLITION IS REQUIRED, THAT WILL BE PERMITTED TO EXPOSE CONDITIONS. THESE VERIFICATIONS SHALL INCLUDE BUT NOT LIMITED TO: DIMENSIONS BOTH HORIZONTALLY AND VERTICAL, ELECTRICAL SERVICE /PANELS LOCATION AND VOLTS/PHASE, LOCATION/QTY OF ROOF MOUNTED HVAC EQUIPMENT, CONFIRM THAT INTERIOR HVAC HUNG UNITS HAVE PROPER SUPPORT CONNECTIONS FOR EXISTING STRUCTURE, FIRE SPRINKLER MAIN RUNS, TOILET ROOM DIMENSIONS, DOOR SWING FOR DOORS TO REMAIN AND ETC. IF NOT VERIFIED AND DISCOVERED AT A LATER TIME, THE CONTRACTOR SHALL REIMBURSE THE ARCHITECT FOR THE REDESIGN FEE. THIS DOES NOT INCLUDE HIDDEN WORK I.E. PITCH OF SANITARY LINES, ACTUAL CONDITIONS OF EXISTING HVAC EQUIPMENT, STRUCTURAL COLUMNS/BEARING WALLS OR CONDITIONS OF GREASE INTERCEPTORS AND ETC.

ENERGY CONSERVATION NOTES

FLOOR DRAIN / SINK

I. AS PER 2015 INTERNATIONAL ENERGY CONSERVATION CODE C404.5, PIPING FROM A WATER HEATER TO THE TERMINATION OF HEATED WATER FIXTURE SUPPLY PIPE SHALL BE INSULATED IN ACCORDANCE WITH TABLE C403.11.3 OF MINIMUM PIPE INSULATION

HOT WATER SYSTEM PIPING IS DESIGNED AS PER MAXIMUM ALLOWED PIPE LENGTH METHOD AS PER 2015 INTERNATIONAL ENERGY CONSERVATION CODE. THE HOT WATER VOLUME FROM THE NEAREST SOURCE OF HEATED WATER TO THE TERMINATION OF THE FIXTURE SUPPLY PIPE SHALL BE AS PER MAXIMUM PIPING LENGTH TABLE.

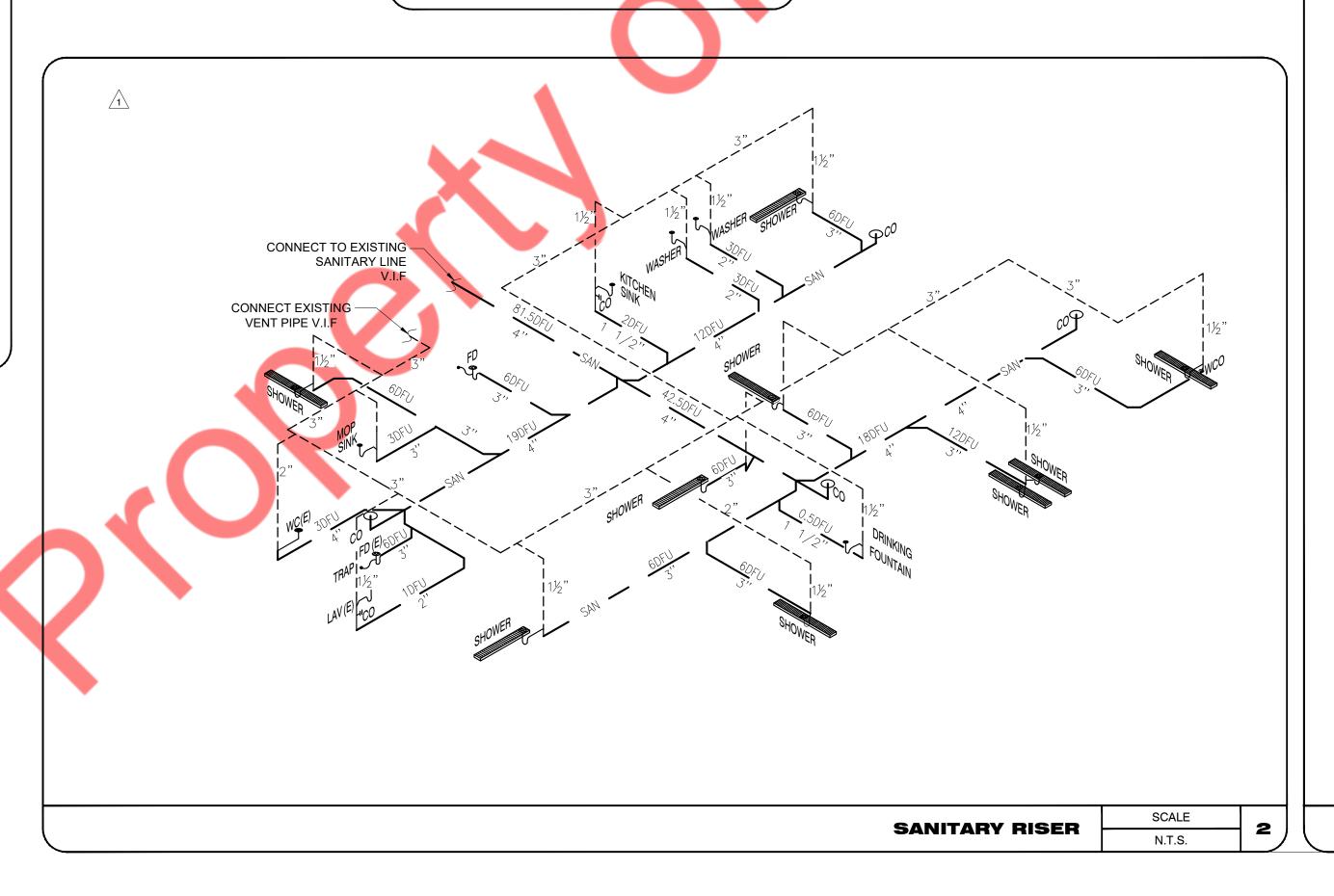
3.AS PER 2015 INTERNATIONAL ENERGY CONSERVATION CODE, WATER HEATING EQUIPMENT AND HOT WATER STORAGE TANKS SHALL MEET THE REQUIREMENTS OF TABLE C404.2. THE EFFICIENCY SHALL BE VERIFIED THROUGH THE DATA FURNISHED BY THE MANUFACTURER

4.AS PER 2015 INTERNATIONAL ENERGY CONSERVATION CODE C404.6.1, CONTROLS FOR CIRCULATING HOT WATER SYSTEM PUMPS SHALL START THE PUMP BASED ON THE IDENTIFICATION OF A DEMAND FOR HOT WATER WITHIN THE OCCUPANCY. THE CONTROLS SHALL AUTOMATICALLY TURN OFF THE PUMP WHEN THE WATER IN THE CIRCULATION LOOP IS AT THE DESIRED TEMPERATURE AND WHEN THERE IS NOT DEMAND FOR HOT WATER. 5.AS PER 2015 INTERNATIONAL ENERGY CONSERVATION CODE C404.7, THE CONTROLS SHALL LIMIT THE TEMPERATURE OF THE WATER ENTERING THE COLD-WATER PIPING TO NOT

FIXTURE BE	RANC	н ѕсі	HEDU	LES
FIXTURE	COLD WATER	HOT WATER	WASTE	VENT
4" WATER CLOSET (TANK)	3/4"		4"	2"
2" LAVATORY	1/2"	1/2"	2"	1 1/2"-2"
3" SERVICE SINK	1/2"	1/2"	3"	1 1/2"-2"

1 1/2"-2"

PLUMBIN	G LEGEND
SAN —	SANITARY SEWER PIPING
<u></u>	VENT PIPING
	DOMESTIC COLD WATER PIPING
<u> </u>	HOT WATER PIPING
<u> </u>	HOT WATER RETURN PIPING
<u></u>	PIPE RISE OR DROP
<u> </u>	-S PIPE RISER UP
Ø	BALANCING VALVE
<u> </u>	CLEAN OUT
0>-0	P-TRAP
S.O.V.	SHUT-OFF VALVE
COTC	CLEAN OUT TO GRADE
CW	DOMESTIC COLD WATER
/ HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
VTR	VENT THRU ROOF
\bowtie	GATE VALVE
	CHECK VALVE
● FD	FLOOR DRAIN
F.W.	FILTERED WATER
B.P.	BACKFLOW PREVENTOR
	THERMOSTATIC MIXING VALVE

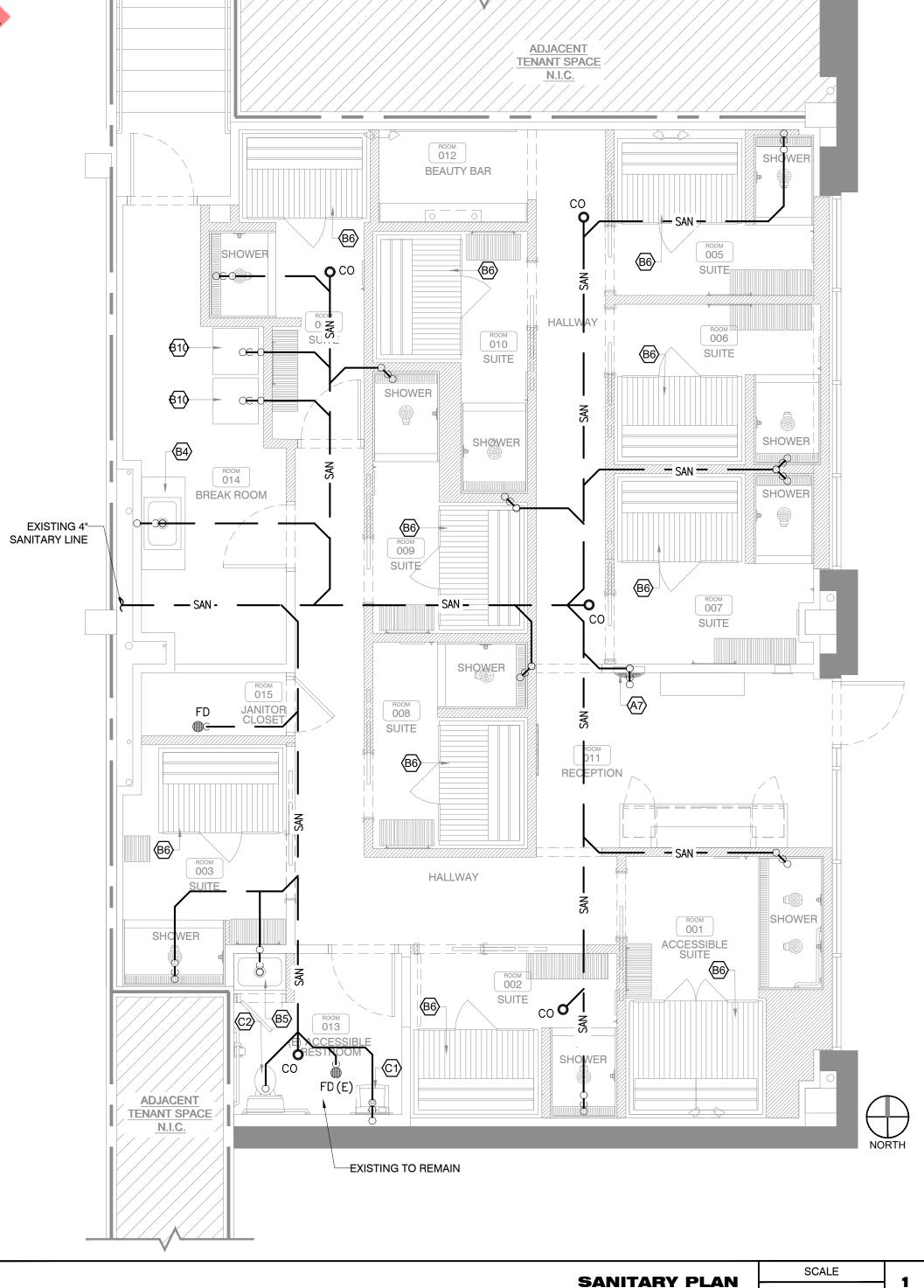


Item No.	Qty.		Description	Manufacturer	Model	Hot	Cold	Was	te L	Jsage	Spe
C1	1	LAVA	TORY	EXISTING TO REMAIN	EXISTING TO REMAIN			2"			
	1	THER	MAL MIXING VALVES	EXISTING TO REMAIN	EXISTING TO REMAIN	1/2"	1/2"				
C2	1	WATE	R CLOSET	EXISTING TO REMAIN	EXISTING TO REMAIN		3/4"	4"		1.28	GPI
			KITCHEN EQUIP	MENT PLUMBI	NG SCHEDULE		WAT	ER	WAS	STE	
Item I	No.	Qty.	Description	MANUFACTURER	MODEL		Hot	Cold	Direc	t Indir	ect
A7	7	1	DRINKING FOUNTAIN	ELKAY	EMASMB			1/2"	1 1/2'		
B4		1	KITCHEN SINK & FAUCET	REGENCY	600DI12812		1/2"	1/2"	1 1/2'		
В5	5	1	MOP SINK	-	-				3"		
B5/	4	1	MOP SINK FAUCET	7	-		1/2"+	1/2"			
B10	0	2	STACKED WASHER-DRYER	ALLIANCE SPEED QUEEN	SF7		1/2"+	1/2"	2"		
ВЗ	3	11	SHOWERHEAD	JACLO	6" ROUND RAIN MACHINE		1/2"	1/2"			
		11	THERMOSTATIC MIXING VALVE	AMERICAN STANDARD	R111		1/2"	1/2"			
		11	CONTROL VALVE	DESIGN PACKAGE 2.0	AC-11		1/2"	1/2"			
C8	3	1	WATER HEATER	SEE SCHEDULE	SEE SCHEDULE	-	1-1/4"	1-1/4"			
			TRENCH DRAIN	ZURN	ZS880				3"		
			FLOOR SINKS	ZURN	Z1900-23-31 (ZS1900 IF IN EXPOSED AREAS)				3"		
			FLOOR DRAINS*	ZURN	ZS415 W/ TYPE BS STRAINER				3"		

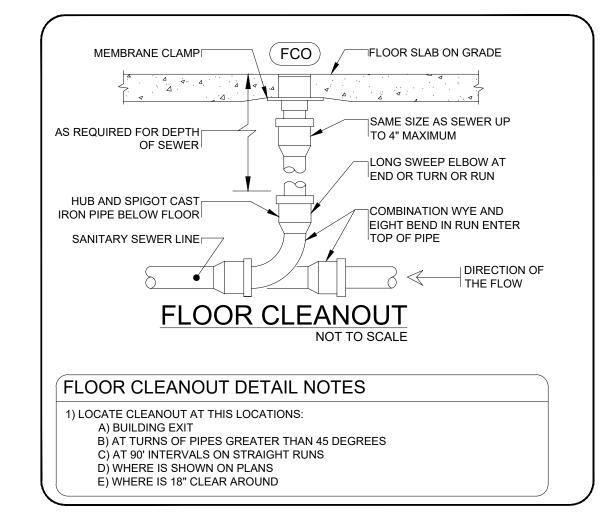
WATER WASTE

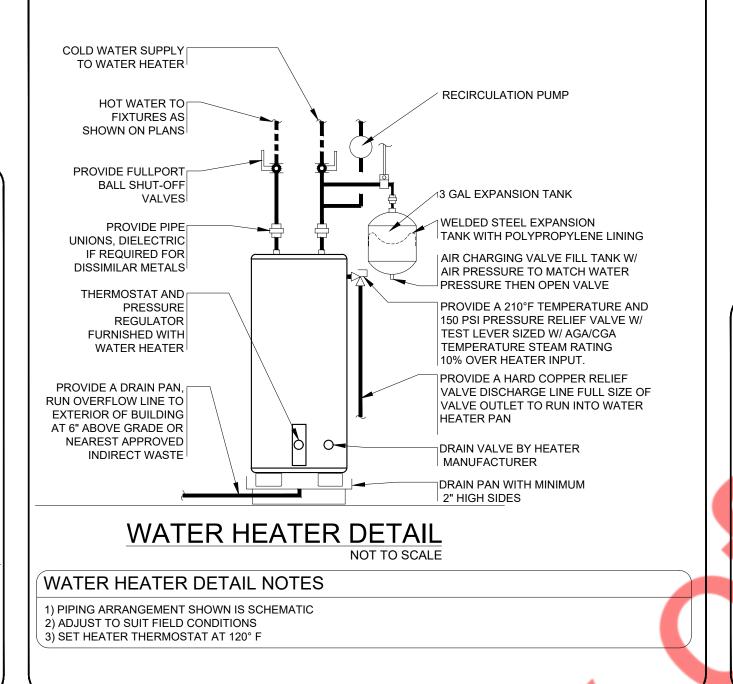
1/4" = 1'-0"

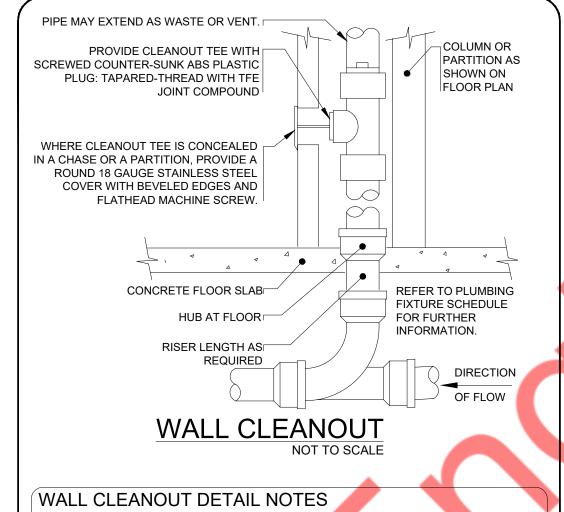
RESTROOM FIXTURE SCHEDULE











1) PROVIDE WCO WHERE SHOWN ON PLANE, AND ON SANITARY WASTE BRANCHES NOT

4) LONG SWEEP AT END OF LINE OR COMBINATION WYE AND EIGHT BEND IN RUN OF LINE

5) CLEAN OUT FACE SHALL BE WITHIN 4" OF WALL SURFACE. PROVIDE A PIPE EXTENSION

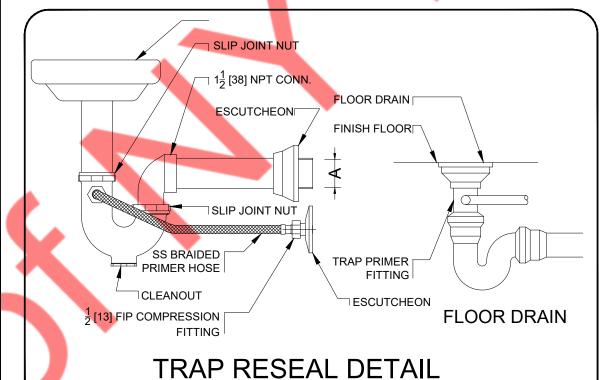
6) REFER TO PLUMBING FIXTURE SCHEDULE FOR FUTHER INFORMATION FOR (WCO)

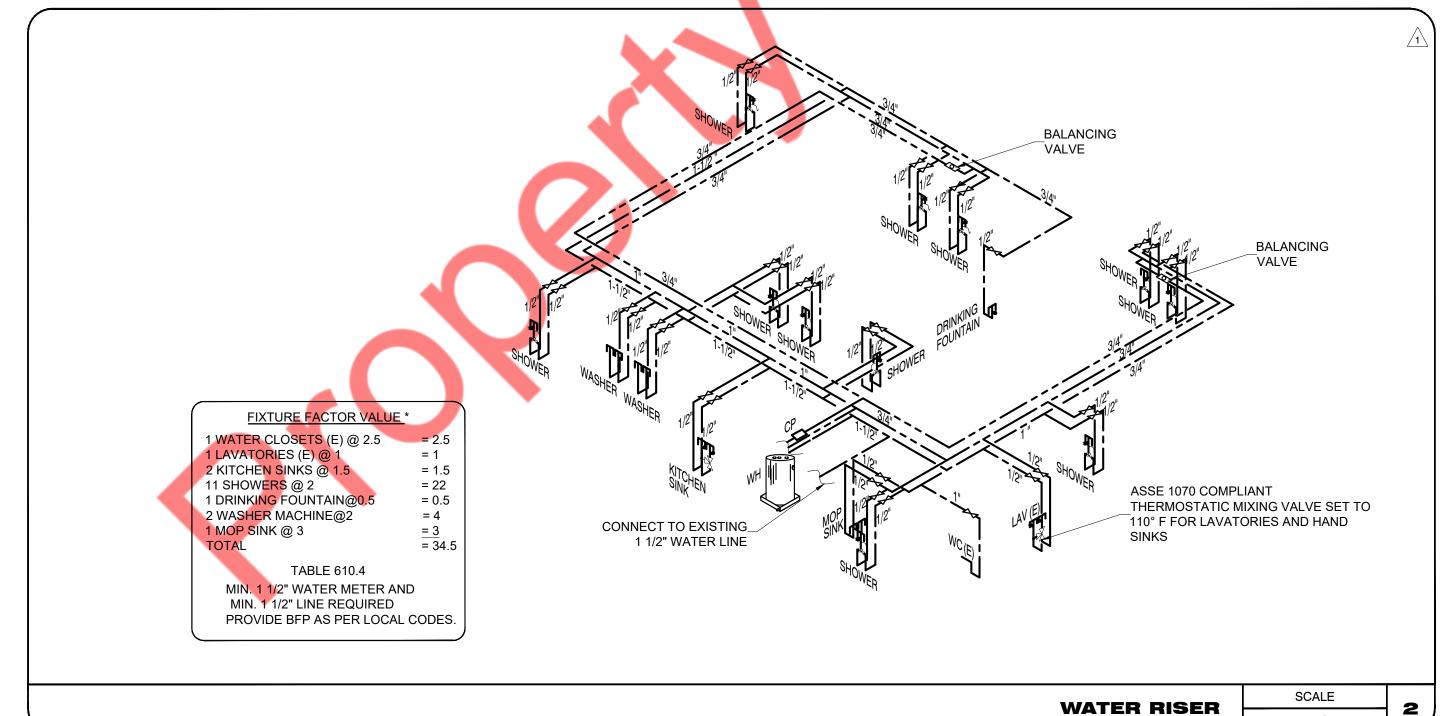
SERVED WITH A FLOOR CLEANOUT

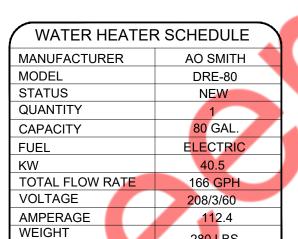
IF REQUIRED

2) LOCATE ABOVE FIXTURE FLOOR RIM WITHIN 4' OF FLOOR.

3) CONSULT LOCAL CODES FOR OTHER WCO REQUIREMENTS.



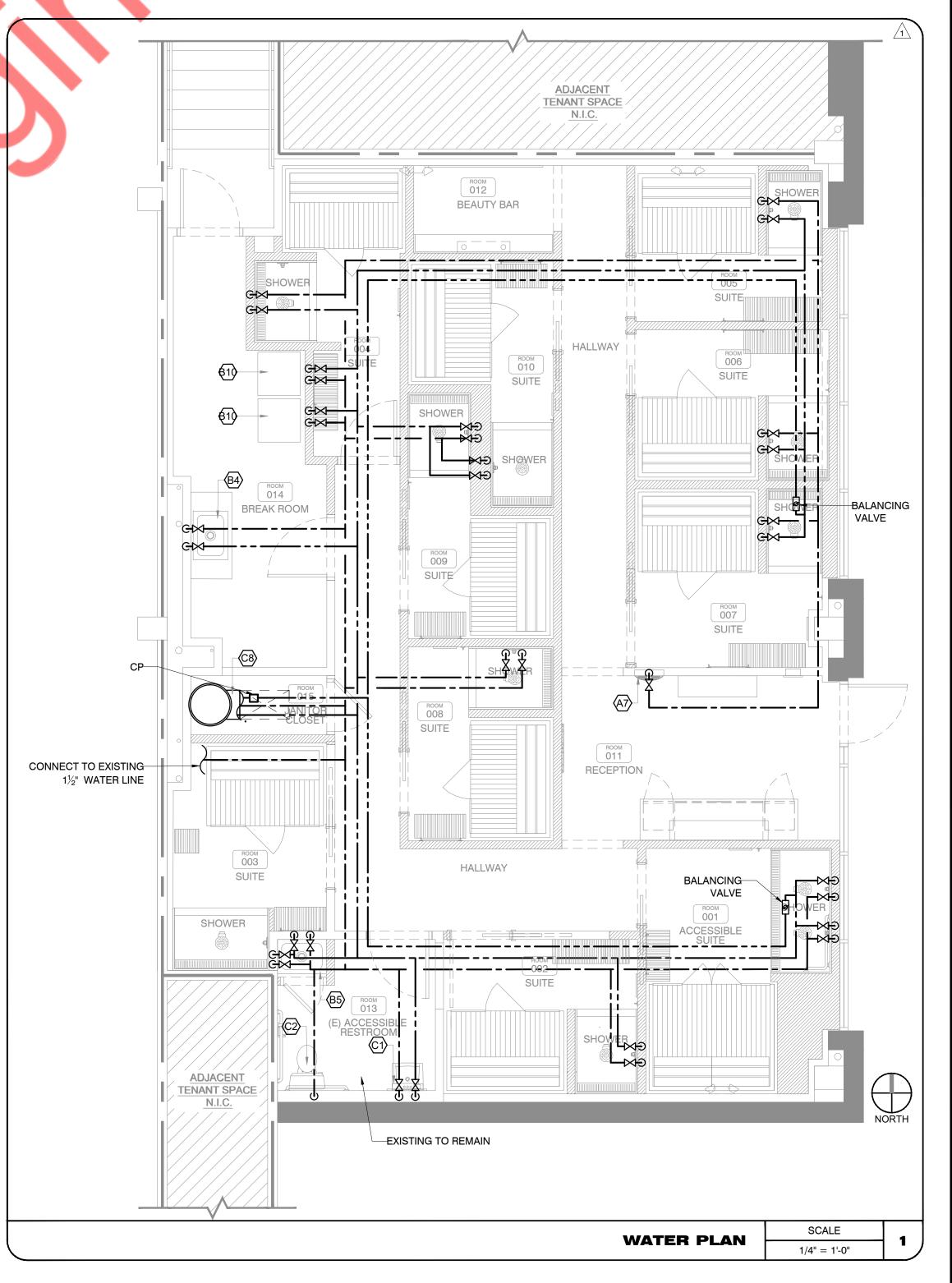




*@ 100° F TEMPERATURE RISE

(EMPTY)

HOT WATER RECIRCULATION PUMP				
MANUFACTURER	BELL AND GOSSETT			
MODEL	NBF 8U/LW			
STATUS	NEW			
QUANTITY	1			
FLOW RATE	2 GPM			
HEAD	8 FT			
MHP	39 WATTS			
VOLTAGE	115/1/60			



FOR REFERENCE ONLY

WATER HAMMER ARRESTOR

HW & CW HOSE

CONNECTIONS

V/VACUUM BREAKERS

(WATTS OR EQUAL)

GUY GRAY SPACE

√ TO WASHER

WASHING MACHINE CONNECTION

□ CLEAN OUT

FINISHED WALL

SAVER WITH 4" DEEP

BOX FOR METAL STUD

1/2" HW & CW PIPING

2" DIA. WASTE

FINISHED FLOOR

TO SANITARY LINE

N.T.S.