

RESTAURANT BACKFLOW PREVENTER CHECKLIST		
APPLICATION	PROTECTION REQUIRED	
NO-CODING DOMESTIC WATER SERVICE	RPZ EXPANSION TANK ON WATER HEATER INLET	
COFFEE, TEA, HOT CHOCOLATE MACHINES	WATTS SD-7	
CARBONATOR	PROVIDE RPZ SIZE AS REQUIRED	
HOSE-DISHWASHER PRE-RINSE	WATTS NLF-8 OR N-4 VACUUM BREAKER	
DISINFECTOR OR CHEMICAL FEED FOR SOAP OR WATER TREATMENT	RPZ ASSE-1055-47 COMPLIANT	
MOP SLOP/SERVICE SINK	ATMOSPHERIC VACUUM BREAKER	
ICE MAKER	DUAL CHECK	

- MV1** SYMMONS TEMP CONTROL MODEL 5-102 FOR SINGLE SINK APPLICATIONS.
- MV2** SYMMONS TEMP CONTROL MODEL 5-400 FOR 2, 3 OR 4 SINK APPLICATIONS.
- \* MV1 AND MV2 CERTIFIED TO ASSE STANDARD 1017-1998 AND CSA STANDARD B-125.
- NOTES:**
1. INSTALL IN SUPPLY PIPING WHERE SHOWN AND AT ALL HAND SINKS AND LAVS.
  2. SET TEMP TO 110°F OR AS RECD BY CODE.
  3. SEE FLOOR PLAN AND PIPING DIAGRAM FOR LOCATIONS AND SUPPLY PIPE SIZES. PROVIDE CHECK VALVES (AS SHOWN) UNLESS INTEGRAL TO MIXING VALVE.

2 MIXING VALVE PIPING SCHEMATIC

3/8" = 1'-0"

3 WATER CONNECTION SCHEMATIC

1/2" = 1'-0"

4 ENLARGED MECHANICAL ROOM

3/4" = 1'-0" WATER PIPING TO MATCH DETAIL 03.

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**SHEET NOTES**

1. REFER TO SHEET P102 FOR PLUMBING GENERAL NOTES APPLICABLE TO ALL PLANS.
2. REFER TO KITCHEN ROUGH-IN PLANS (IF 2025) FOR FINAL LOCATIONS AND ADDITIONAL REQUIREMENTS. FOR EXAMPLE FOR BRANCH CONNECTIONS SIZES NOT SHOWN HERE AND FOR COORDINATION OF BEVERAGE LINES.

**BEVERAGE SYSTEM NOTES**

1. COORDINATE WITH SODA SYSTEM SUPPLIER FOR WATER REQUIREMENTS FOR BEVERAGE SYSTEM AND CARBONATORS. PPE AS REQUIRED.
2. THE WATER SUPPLY CONNECTION TO CARBONATED BEVERAGE DISPENSERS SHALL BE PROTECTED AGAINST BACKFLOW BY AN RPZ BACKFLOW PREVENTER CONFORMING TO NSF 61, NO. 25 OR AS RECD BY CODE. THE VALVE AND THE PIPING DOWNSTREAM THEREFROM SHALL NOT BE AFFECTED BY CARBON DIOXIDE GAS.
3. PROVIDE ELECTRICAL GRADE PVC CONDUITS FOR SODA PIPING, IF REQUIRED. USE LONG SWEEP FITTINGS FOR ALL CHANGES IN DIRECTION.

**SHEET KEYNOTES**

1. 2" DOMESTIC WATER SERVICE INTO BUILDING. REFER TO CIVIL SITE UTILITY PLAN FOR CONTINUATION AND ADDITIONAL DETAILS.
2. MAIN SHUT-OFF VALVE, BACKFLOW PREVENTER AND RPZ LOCATED AS SHOWN. REFER TO CIVIL SITE UTILITY PLAN FOR BACKFLOW PREVENTER AND RPZ LOCATIONS.
3. 1 1/2" CW TO WATER SOFTENER (OR SIZE AS REQUIRED BY EQUIPMENT SUPPLIER). PROVIDE ACCESSIBLE BACKFLOW PREVENTER AS REQUIRED BY A.H.J. COORDINATE REQUIREMENTS WITH EQUIPMENT.
4. AVOID ROUTING WATER PIPING ABOVE ELECTRICAL PANELS. PROVIDE DRIP PAN WHERE UNAVOIDABLE. (COORDINATE WITH ELECTRICAL PLANS).
5. COORDINATE ALL WATER PIPING WITH LADDES AND ROOF HATCH.
6. WATER HEATERS ON WALL REFER TO WATER HEATER PIPING DETAIL FOR ADDITIONAL INFORMATION.
7. COORDINATE ALL WATER HEATER VENTS (INTAKE/FLUE) WITH PIPING, MECHANICAL ELECTRICAL EQUIPMENT, AND STRUCTURE. TYPICAL FOR ALL WATER HEATERS. REFER TO MECHANICAL ROOF PLAN FOR EXTERIOR LOCATIONS OF VENT.
8. PIPING DOWN FROM ROOF FOR WATER HEATER CONNECTIONS. PENETRATE ROOF WITH WATER TIGHT PIPE SLEEVE. COORDINATE WITH ROOFING CONTRACTOR. REFER TO GAS PIPING SCHEMATIC FOR SIZE.
9. INSTALL SHUT-OFF VALVES FOR WATER SUPPLY BRANCH PIPING ABOVE LAY-IN CEILING OR EXPOSED. PROVIDE ACCESS PANEL WHEN INSTALLED ABOVE HARD CEILING OR WITHIN WALLS. (TYPICAL ALL LOCATIONS).
10. PROVIDE TRAP PRIMER (TP) ABOVE LAY-IN CEILING OR BEHIND ACCESS PANEL. ROUTE 1/2" CW TRAP PRIMER LINES DOWN IN WALL AND EXTEND BELOW FLOOR TO DRAIN(S).
11. AT FWH-2, VERIFY WALL THICKNESS AND DEPTH REQUIRED PRIOR TO INSTALLING FAUCET.
12. GAS PIPING DOWN FROM ROOF. PENETRATE ROOF WITH WATER TIGHT PIPE SLEEVE. COORDINATE WITH ROOFING CONTRACTOR. PROVIDE GAS ISOLATION VALVE AND SHUT-OFF VALVE FOR COOKING EQUIPMENT (FURNISHED BY INSTALL AUTOMATIC GAS HOOD SUPPLIER IN AN ACCESSIBLE LOCATION BELOW CEILING. COORDINATE LOCATION WITH HOOD AND EQUIPMENT. INTERLOCK WITH ANSUL FIRE PROTECTION SYSTEM AT HOOD FOR A COMPLETE SYSTEM SHUT-OFF AND ANSUL SYSTEM SHALL BE LOCATED ABOVE THE KITCHEN EQUIPMENT OR IN A LOCATION THAT DOES NOT INTERFERE WITH ANY EQUIPMENT WHICH IS FLUSH WITH THE COOKLINE WALL.
13. GAS MANIFOLD FOR COOKING EQUIPMENT. REFER TO GAS PIPING SCHEMATIC FOR SIZE. MOUNT AT 18" A.F.F. PROVIDE 6" MINIMUM DIRT LEG AT GAS DROP TO MANIFOLD. PAINT ALL EXPOSED GAS PIPING YELLOW.
14. WATER SUPPLY PIPING WITH NO JOINTS PERMITTED UNDER SLAB. SLEEVE AND SEAL THRU SLAB. STUB UP TO 6" AFF. VALVE AND CAP IN PREPARATION FOR FINAL EQUIPMENT CONNECTIONS.
15. PROVIDE NORMALLY CLOSED BALL VALVE IN BY-PASS FOR BAR HOT WATER LOOP. IT WILL ONLY BE OPEN IF BAR EQUIPMENT IS UNDER REPAIR OR REPLACEMENT.
16. ROUTE COLD WATER AND HOT WATER LOOP WITHIN BAR DE WALL. COORDINATE WITH EQUIPMENT, PLUMBING PIPING, ELECTRICAL EQUIPMENT AND BAR BEVERAGE TUBING.
17. COLD WATER PIPING DOWN IN WALL. TURN OUT OF WALL. INSTALL FWH-1 THRU EXTERIOR WALL.
18. RUN COPPER PIPE FOR FILTERED WATER SHOWN. BEVERAGE VENDOR WILL MAKE FINAL CONNECTIONS TO BAG-IN-BOX, CARBONATOR, ETC.
19. PROVIDE ACCESSIBLE WATER HAMMER ARRESTORS (WHA) ABOVE LAY-IN CEILING OR BEHIND ACCESS PANEL, UPSTREAM OF ALL WATER CLOSET OR URINAL FLUSH VALVES AND ALL SOLENOID VALVES, I.E. AT DISHWASHER, GLASSWASHER, ICE MACHINE AND STEAMER.
20. GAS METER LOCATION. COORDINATE METER SET AND CONNECTION REQUIREMENTS WITH GAS COMPANY. PROVIDE SHUT-OFF VALVE UPSTREAM OF METER IN ACCORDANCE WITH NATIONAL, FUEL, GAS CODE AND FIRE MARSHAL REQUIREMENTS. PROVIDE PERMANENT METAL VALVE TAG AND NOTE "GAS SERVICE SHUT-OFF". REFER TO CIVIL SITE UTILITY PLAN FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL PAY ALL FEES AND CONNECTION COSTS AS REQUIRED.
21. GAS PIPING UP WALL. PAINT TO MATCH EXTERIOR WALL AS REQUIRED. AND EXTEND TO ABOVE ROOF. REFER TO MECHANICAL ROOF PLAN, SHEET MP200, FOR ADDITIONAL INFORMATION.
22. PROVIDE ACCESSIBLE BACKFLOW PREVENTER AS REQUIRED BY A.H.J. FOR ICE MACHINES. COORDINATE LOCATION WITH ICE MACHINE SUPPLIER.
23. PROVIDE ACCESSIBLE BACKFLOW PREVENTERS AS REQUIRED BY A.H.J. FOR WATER FILTERS. INSTALL BELOW FILTER, BETWEEN 2" AND 6" A.F.F. COORDINATE.
24. PROVIDE PRESSURE REDUCING VALVE FOR DISHWASHER. VERIFY THAT DISHWASHER IS FURNISHED WITH INTERNAL BACKFLOW PREVENTER ACCEPTABLE TO A.H.J.
25. PROVIDE ACCESSIBLE BACKFLOW PREVENTER AS REQUIRED BY A.H.J. FOR CARBONATORS.
26. PROVIDE 1/2" SOFT CW WITH STRAINER (IF REQUIRED BY MFR) AND ACCESSIBLE BACKFLOW PREVENTER AS REQUIRED BY A.H.J. TO GLASSWASHER PER MANUFACTURER'S RECOMMENDATIONS.
27. PROVIDE BACKFLOW PREVENTER AS REQUIRED BY A.H.J. FOR TEA AND COFFEE BREWERS.
28. PROVIDE BACKFLOW PREVENTER AS REQUIRED BY A.H.J. AT MOP SINK FAUCET AND FOR CHEMICAL DISPENSER.
29. EXTEND 3/4" HOT WATER LOOP DOWN IN WALL AND BACK UP IN CEILING SPACE TO MAINTAIN MAXIMUM 2'-0" DISTANCE FROM HOT WATER SOURCE TO LAVATORY OR TLET PER 2017 FLORIDA ENERGY CODE.

**WATER PIPING INSTALLATION**

THE PLUMBING CONTRACTOR SHALL INSTALL ALL WATER PIPING FULL SIZE AS INDICATED ON THIS PLAN IN ORDER TO KEEP THE VELOCITY OF THE WATER FLOWING IN THE COPPER LINES TO 5 FEET PER SECOND (MAXIMUM) FOR ALL HOT WATER SUPPLY LINES AND 8 FEET PER SECOND (MAXIMUM) FOR ALL COLD WATER, FILTERED WATER, AND SOFT COLD WATER LINES. THE PLUMBING CONTRACTOR SHALL REDUCE THE SIZE OF THE WATER LINES TO THE CONNECTION SIZE FOR EACH FIXTURE AT EACH FIXTURE. IF THE PLUMBING CONTRACTOR DEVIATES FROM THE SIZES INDICATED ON THIS PLAN AND INSTALLS SMALLER COPPER LINES THE PLUMBING CONTRACTOR SHALL REPLACE ALL UNDERSIZED WATER LINES AT THE PLUMBING CONTRACTOR'S EXPENSE - NO 1/4", 3/8" OR SMALLER COPPER TUBING SHALL BE INSTALLED ON THIS PROJECT - NO EXCEPTIONS.

REFER TO ARCHITECTURAL DRAWINGS FOR WATERPROOFING OF ALL FLOOR PENETRATIONS

COORDINATE ALL PIPING AND PENETRATIONS WITH ELEVATED MECHANICAL PLATFORM STRUCTURE. REFER TO ARCHITECTURAL DRAWING A2.3a FOR ADDITIONAL INFORMATION.

ALL PIPING SHALL BE COORDINATED BETWEEN ALL TRADES PRIOR TO ANY WORK TO INSURE MANUFACTURERS EQUIPMENT CLEARANCES ARE MAINTAINED



BLOOMING BRANDS  
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SHEET ISSUE  
OUT TO PERMIT:  
03/21/19

PRINCIPAL IN CHARGE: JC  
PROJECT ARCHITECT: MS  
DRAWN BY: TH

SHEET TITLE  
WATER & GAS PIPING PLAN

SHEET NO. PROJ. NO.  
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