

GENERAL NOTES:

- 1. PLUMBING CONTRACTOR SHALL EXECUTE ALL WORK SO THAT IT PRECEDES WITH A MINIMUM OF INTERFERENCE WITH OTHER TRADES.
2. VERIFY EXACT ROUGH-IN AND FINAL EQUIPMENT REQUIREMENTS IN FIELD.
3. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTIONS TO PLUMBING FIXTURES AND KITCHEN EQUIPMENT. THIS INCLUDES, BUT NOT LIMITED TO FURNISHINGS AND INSTALLING ALL TRAPS, DRAINS AND SUPPLIES WITH STOPS.
4. THE PLUMBING CONTRACTOR SHALL VERIFY THAT ALL PIPING, AS SHOWN ON THESE DRAWINGS WILL NOT CONFLICT WITH ANY DRAINS, SCUTTELS, JOINTS, VENTS, EQUIPMENT, ETC.
5. COORDINATE ROUTING AND LOCATIONS OF WASTE AND VENT PIPING WITH ALL OTHER TRADES.
6. THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES, ALL REQUIRED OPENINGS AND EXCAVATIONS. ALL REQUIRED OPENINGS IN FOUNDATIONS, FLOORS, WALLS, AND ROOFS SHALL BE DESIGNED INTO THE STRUCTURE INITIALLY BY THE USE OF SLEEVES, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO MINIMUM.
7. ALL ITEMS PROJECTING THROUGH ROOFS SHALL BE FLASHED, A MINIMUM OF 12" ABOVE THE ROOF. ALL VENTS SHALL BE A MINIMUM OF 10' FROM ANY OUTSIDE AIR INTAKE.
8. ALL FLOOR DRAINS SHALL HAVE 6" DEEP SEAL TRAPS.
9. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING WATER SUPPLY TO THE COFFEE MAKERS TEA BREWERS AND ICE MACHINES.
10. WRAP ALL CONDENSATE PIPE IN FREEZER WITH HEAT TRACING TAPE AND INSULATE ALL CONDENSATE DRAIN PIPING. ROUTE COOLER CONDENSATE DRAIN PIPING TO HUB DRAIN/FLOOR DRAIN AS INDICATED.
11. INSULATE ALL WATER AND WASTE PIPING UNDER LAVATORIES WITH HANDY-SHIELD JACKET BY PLUMBEREX. (619) 633-1772.
12. POT SINKS TO BE ANCHORED TO WALL AND SEALED WITH SILICONE CAULKING.
13. INSTALL GAS VALVE (FG) IN GAS LINE TO COOKING EQUIPMENT. INTERLOCK WITH HOOD FIRE PROTECTION SYSTEM. VERIFY REQUIREMENTS WITH HOOD SUPPLIER. INSTALL UNIONS AT THE SOLENOID VALVE.
14. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL SHUTOFF COCKS, QUICK DISCONNECTS AND FLEXIBLE LINES AT GAS EQUIPMENT.
15. PROVIDE VACUUM BREAKERS AT FIXTURES WITH HOSE THREAD CONNECTIONS.
16. PROVIDE DIELECTRIC UNIONS AT ALL DISSIMILAR METAL PIPE CONNECTIONS.
17. LAVATORY FAUCETS SHALL LIMIT HOT WATER FLOW TO 0.5 GPM AND HOT WATER TEMPERATURE TO 110°F
18. PROVIDE 1" Ø SCH 40 BLACK STL PIPE FOR GREASE DISCHARGE. RUN LINE FLUSH ON WALL BESIDE FRYERS, VERTICALLY UP IN WALL THRU CLG. SLOPE LINE @ 1/4" FT TOWARDS REAR OF BUILDING. RUN LINE DOWN THRU CEILING ON FACE OF EXTERIOR WALL TO 7' AFF THEN THRU REAR WALL FOR DISCHARGE. HEAT TAPE TO BE INSTALLED ON ENTIRE LINE @ 5 WATTS/LINEAR FT. G.C. TO PROVIDE STAINLESS STEEL COVERS FOR LINE MOUNTED FLUSH ON WALLS (ENTIRE LENGTH - CEILING DOWN). REFER TO DETAIL 7/4.

SPECIFICATIONS:

SECTION 15A: PLUMBING

GENERAL PROVISIONS

- 1. SCOPE: PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT IN ACCORDANCE WITH THESE SPECIFICATIONS AND THE ACCOMPANYING DRAWINGS TO PROVIDE A COMPLETE AND PROPERLY OPERATING PLUMBING SYSTEM FOR THE BUILDING.
OBTAIN WATER, SEWER, GAS TAPS, AND ANY OTHER REQUIRED UTILITIES AND EXTEND SERVICE FROM SAME TO BUILDING AS SHOWN ON DRAWINGS. VISIT THE SITE FOR UNDERSTANDING OF THE WORK TO BE DONE BEFORE SUBMITTING BID. REFER TO CIVL DWGS FOR SITE UTILITIES.
COORDINATE THIS WORK WITH THE WORK OF THE OTHER TRADES ON THE PROJECT. ALL PLUMBING IS TO BE ROUGHED IN WHILE THE BUILDING IS BEING CONSTRUCTED AT SUCH TIMES AS NOT TO DELAY THE GENERAL CONTRACTOR ON THE BUILDING.
2. GENERAL REQUIREMENTS: COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS, CODES, RULES, AND ORDINANCES GOVERNING WORK ON THIS CHARACTER. PAY FOR AND OBTAIN NECESSARY CONSTRUCTION PERMITS AND CERTIFICATES OF INSPECTION.
A. DRAWINGS: THE LOCATION OF THE PIPING RUNS ARE APPROXIMATE AND THE CONTRACTOR MUST MAKE ANY NECESSARY CHANGES IN THE PIPING RUNS, ETC. AND AT NO ADDITIONAL COST TO THE OWNER. OUTLET LOCATIONS ARE CRITICAL AND MUST BE LOCATED EXACTLY ACCORDING TO THE PLUMBING PLAN. COORDINATE THIS WORK WITH THE INSTALLERS OF EQUIPMENT FURNISHED AND INSTALLED BY OTHERS. REFER TO THE OTHER DRAWINGS FOR DETAILS OF THE BUILDING CONSTRUCTION AND THE OTHER MECHANICAL, ELECTRICAL, AND EQUIPMENT FEATURES.
B. COORDINATION AND WORKMANSHIP: SCHEDULE THIS WORK SO THAT IT WILL BE PROPERLY COORDINATED WITH ALL OTHER TRADES. WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE BEST PRACTICE FOR THE CLASS OF WORK INVOLVED. WORKMANSHIP SHALL ALLOW THE APPLIANCE TO OPERATE AS INTENDED AND BE INSTALLED TO BEST PROTECT THE PUBLIC AND OPERATORS FROM INJURY OR DAMAGE, AND TO PRESENT A NEAT, PLEASING, AND ORDERLY APPEARANCE.

MATERIALS AND PERFORMANCE

- 1. MATERIALS: ALL MATERIALS SHALL BE NEW AND OF THE QUALITY INDICATED BY THE SPECIFIED BRAND NAMES. SUBSTITUTIONS OF MATERIAL OF EQUAL QUALITY BY OTHER FIRST-LINE MANUFACTURERS MAY BE ACCEPTABLE PROVIDED A LIST OF SUCH SUBSTITUTIONS IS APPROVED IN WRITING BY MRP'S ARCHITECTURE AND ENGINEERING DEPARTMENT. A SUBSTITUTIONS LIST SHALL BE SUBMITTED IN TRIPPLICATE WITHIN FIVE (5) DAYS AFTER THE CONTRACT IS LET.
2. BACKFILLING: PERFORM ALL NECESSARY EXCAVATING AND BACKFILLING REQUIRED FOR THIS INSTALLATION. PREPARE A PROPER BED OF SAND OR GRAVEL OR EQUIVALENT IN ROCK SCREENINGS SO AS TO ELIMINATE SHIMMING AND VOID SPACE UNDER ANY OF THE UTILITY SERVICE PIPES. BENDING OF ANY HARD PIPE WILL NOT BE PERMITTED. WHERE A CHANGE IN DIRECTION IS NECESSARY ON PRESSURE PIPES, "COMPATIBLE" COUPLINGS OR EQUAL SHALL BE USED AND BENDS MAY NOT EXCEED 90 DEGREES. ALL EXCAVATION BELOW THE BOTTOM OF FOOTINGS SHALL BE BACKFILLED WITH 2000 PSI CONCRETE. OTHER BACKFILL SHALL CONSIST OF 2'-3" OF SAND OR ROCK SCREENINGS AND EARTH TO A FINAL LEVEL EQUAL TO ITS ORIGINAL CONDITION. IN THE EVENT THE BACKFILL SHOULD SETTLE BEFORE THE FINAL TOP SURFACE IS APPLIED, APPLY ADDITIONAL BACKFILL TO SUSTAIN THE ORIGINAL LEVEL. CARE SHOULD BE TAKEN TO ADDITIONAL BACKFILL TO SUSTAIN THE ORIGINAL LEVEL. CARE SHOULD BE TAKEN TO MINIMIZE THE DUST LEVEL WHEN EXCAVATING AND BACKFILLING SO AS TO COMPLY WITH FEDERAL AND STATE E.P.A. REGULATIONS RELATING TO THIS TYPE OF WORK (FOUGITIVE DUST).
3. PIPING INSTALLATION: CLEANOUTS MUST BE INSTALLED ON MINIMUM DROP LINES EVEN THOUGH NOT SHOWN ON THE PLANS. USE REDUCING FITTINGS IN MAKING REDUCTIONS IN SIZE OF PIPE. REAM ALL PIPE AFTER CUTTING, THEN TURN PIPES ON END AND KNOCK OUT ALL LOOSE DIRT AND SCALE BEFORE INSTALLING. MAKE CHANGES IN HORIZONTAL DIRECTION OF SOIL AND WASTE PIPES WITH LONG RADIUS FITTINGS OR WITH COMBINATION "Y" BRANCHES AND 1/8TH BENDS. CONNECT SOIL STACKS AT BASE TO HORIZONTAL RUNS WITH COMBINATION "Y" AND 1/8TH BENDS.
WATER SUPPLY PIPES TO FIXTURES AND WASTE PIPES FROM FIXTURES SHALL BE CENTERED IN THE PROPER PLACE RELATIVE TO THE CENTER LINE OF THE FIXTURE. NO OFFSETS WILL BE ALLOWED. ALL PIPES SHALL BE RUN MECHANICALLY STRAIGHT AND SQUARE WITH BUILDINGS. EXCEPT FOR REQUIRED PITCH ON HORIZONTAL LINES, AND ALL CHANGES IN DIRECTION SHALL BE MADE WITH FITTINGS. WATER PIPING TO BE ROUTED IN WALLS, UNDER THE FLOOR SLAB, AND ABOVE SUSPENDED CEILING AS NOTED. WHERE WATER LINES ARE ROUTED UNDER THE FLOOR SLAB, NO MECHANICAL JOINTS SHALL BE MADE UNDER THE SLAB EXCEPT AS LISTED BELOW. WATER PIPING SHALL BE INSTALLED NOT TO EXERT VERTICAL NOR HORIZONTAL STRESSES ON THE SEATING OF UNIONS. UNIONS SHALL BE COPPER TYPE NIBCO #733 OR EQUAL.
NO WAX, PUTTY, OR VARNISH WILL BE PERMITTED. CRACKED FITTINGS SHALL BE REMOVED AND REPLACED WITH NEW FITTINGS. MAKE THREADED JOINTS IN BRASS PIPE AND FITTING WITH PIPE FITTINGS TO THE SHOULDER OF THE FITTINGS. NO SOLDER JOINTS COUPLING JOINTS IN BRASS PIPE WILL BE PERMITTED, EXCEPT ON THE FIXTURE SIDE OF THE TRAP.

- 4. NATURAL GAS PIPING: FOR ABOVEGROUND INSTALLATIONS, ALL FITTINGS TO BE JOINED WITH TEFLON TAPE SEAL OR OTHER SUITABLE SEAL AND MADE IN CONFORMANCE WITH THE BEST PRACTICES OF AGA AND NFPA 54. UNIONS SHALL BE CAST IRON AND INSTALLED IN A MANNER SUCH THAT NO STRESS WILL BE PLACED ON THE MALE-FEMALE SEALING SURFACES. PROPER ALIGNMENT WILL BE MADE AT TIME OF INSTALLATION. ALL JOINTS AND CONNECTIONS SHALL BE THOROUGHLY CLEANED OF OIL, THREAD CUTTINGS AND RESIDUALS TO ACCEPT ENAMEL PAINT. ROUGH OR SHARP EXPOSED THREAD SURFACES SHALL BE FILED SMOOTH. TESTING SHALL BE AS OUTLINED UNDER SECTION 15A, PARAGRAPH II, TESTS.
A. MATERIALS: BLACK CARBON STEEL, SCH. 40 WITH MALLEABLE IRON THREADED FITTINGS.
B. PAINTING: PAINT ALL GAS PIPING EXPOSED TO WEATHER WITH ONE COAT OF PRIMER, AND TWO COATS OF RUST-PROOF PAINT. COLOR SHALL MATCH BUILDING COLORS. COORDINATE WITH G.C.
5. WATER PIPE:

PART 1: PEX-A DOMESTIC/POTABLE WATER PIPING

- A. General: Installer shall be certified by the PEX-A tubing manufacturer to install PEX-A tubing. A potable water distribution system from Contractors which are not certified by the PEX-A tubing manufacturer are not allowed. Contractor shall submit his Letter of Certification with the submittals. Failure to provide the Letter of Certification with the submittals will be cause for immediate rejection without further review. After the installation is completed, the Contractor shall have a Manufacturer's representative who is certified by the Manufacturer in the installation of the system. Upon completion of the installation, the Representative shall provide the Architect and the Contractor with a list of deficiencies to be corrected. Corrections shall be corrected at the Contractor's expense. If all deficiencies listed by the Manufacturer's representative, the Manufacturer's representative shall certify in writing that the installation meets the specifications and the Manufacturer's installation requirements and recommendations.
B. Design Requirements:
1. Standard Grade hydrostatic pressure ratings from PEX-A Pipe Institute in accordance with TR-3 as listed in TR-4. The following three standard-grade hydrostatic ratings are required:
a. 200 degrees F @ 80 psi
b. 180 degrees F @ 100 psi
c. 73.4 degrees F @ 150 psi
d. Shall have a fire hazard rating not to exceed 50 for flame spread and 50 for fuel contributed and smoke developed as determined by ASTM E84
C. Performance Requirements: To provide PEX-A tubing used in cold potable water distribution system, which is manufactured, fabricated and installed to comply with regulatory agencies and to maintain performance levels stated by the PEX-A tubing manufacturer without defects, damage or failure.

QUALITY ASSURANCE

- A. Installer Qualifications: Installer's shall have minimum experience on six (6) projects of similar size and complexity and possessing documentation proving successful installation of PEX-A plumbing installation installed by the PEX-A tubing manufacturer.
B. Certifications and Approvals: Provide domestic potable system that complies with requirements of the following:
1. International Code Conference (ICC)
C. Certifications - The following Letters of Certification shall be provided with the submittals as follows:
1. Installer is certified by the PEX-A tubing manufacturer to install the PEX-A potable water distribution system.
2. Installer will utilize skilled workers holding a trade qualification license or equivalent, or apprentices under the supervision of a licensed tradesperson.

WARRANTY

- A. Project Warranty: Refer to Conditions of the Contract for project general warranty provisions.
B. Manufacturer's Warranty: Submit, for Engineer's acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is, in addition to, and not a limitation of, other rights owner may have under contract documents.
1. Warranty shall provide for repair or replacement of any tube or fittings that are proven to be defective.
2. Warranty shall be transferable to subsequent owners.
3. Guarantee Period for the PEX-A water distribution system shall be a minimum of 25-years, non-prorated warranty against failure due to defect in material or workmanship, beginning on the date of substantial completion.

HOT AND COLD POTABLE WATER DISTRIBUTION SYSTEM

- A. Manufacturer:
1. Uponor, Inc. (Basis of Design)
2. Hestite
3. Rehau
4. Sioux Chief

MATERIALS

- A. Tubing
1. Material: SDR9 cross linked polyethylene manufactured using the Engol method (PEX-A). Crimp Ring PEX-B or PEX-C will not be allowed.
a. Minimum degree of cross-linking shall be between 70-89% when tested in accordance with ASTM D2785, Method B.
2. Piping shall be pleium rated where pleiums occur.
3. Material Standard: Manufactured in accordance with ASTM F876 and ASTM F877 and tested for compliance by an independent, third-party agency.
a. Piping to have a minimum material designation of PEX 5106
4. Potable water piping shall comply with NSF 14 and NSF 61 and bear the NSF-pw marking.
5. Temperature and pressure requirements in accordance with PPI TR-3: 73.4°F at 80psi, 180°F at 100psi and 200°F at 80psi.
6. Standard grade hydrostatic design and pressure ratings from PPI
7. Fire rated assembly fittings in accordance with ANSI/UL 263
8. Minimum Bend Radius (cold bending): No less than six times the outside diameter. Use a bend support as supplied by the PEX-A tubing manufacturer for tubing with a bend radius less than stated.
9. PEX-A tubing shall only be permitted in locations as specified.
B. Fittings

Manufactured Joint: 1/2 inch through 3 inch nominal pipe size

- 1. ASTM F1960 cold expansion fittings manufactured from the following material types
2. Reinforcing cold-expansion rings shall be manufactured from the same source as PEX-A piping and marked "F1960".
3. Potable water fittings shall comply with NSF 14 and NSF 61 and bear the NSF-pw marking.
b. Accessories:
1. Transition to copper Type "L" prior to stub-out at all fixture rough-ins.
2. Bend supports designed for creating long sweep radius bends shall be supplied by the PEX-A tubing manufacturer.
3. Expander tool to install the ASTM F1960 compatible fittings shall be supplied to the Contractor by the PEX-A tubing manufacturer.
4. The tubing manufacturer will provide vinyl coated, stainless steel cable ties and/or PEX-A Support for supporting tubing runs. Support channel and tubing must be of same manufacturer.
5. All horizontal pipe hangers and riser clamps shall be epoxy coated material.
6. Manufacturer recommended supports, hangers, clamps, F704 Supports and all other required items for a Manufacturer recommended installation.

INSTALLATION

- A. Tubing
1. Install tubing in accordance with the tubing manufacturer's recommendations and as indicated in the installation handbook by a factory trained installer.
2. Do not install PEX-A tubing within 6 inches of gas appliance vents or within 12 inches of any recessed light fixtures.
3. Do not solder within 18 inches of PEX-A tubing in the same waterline. Make sweat connectors prior to making PEX-s connections.
4. Do not expose PEX-A tubing to direct sunlight.
5. Ensure no glues, solvents, sealants or chemicals come in contact with the tubing.
6. Use grommets or sleeves at the penetration for PEX-A tubing passing through metal studs.
7. Protect PEX-A tubing with sleeves where abrasion may occur and elsewhere specified in Section 15010.
8. Use shild protectors where PEX-A tubing penetrates a stud or joist and has the potential for being struck with a screw or nail.
9. When the edge of the piping is less than 1.5 inches from the nearest edge of the stud, joist, rafter or similar member, the pipe shall be protected by shield plates. Protective shield plates shall be a minimum of 0.02 inch-thick (16 ga.)
10. Use tubing manufacturer supplied bend supports where bends are less than six times the outside pipe diameter.
11. Minimum horizontal supports are to be installed not less than 32 inches between hangers in accordance with applicable codes and the Manufacturer's installation handbook.
12. PEX-A riser installations require riser clamps installed at the base of the ceiling per floor.
13. A mid-story support is required for riser applications.
14. Pressurize tubing with air or hydrostatically in accordance with applicable codes or in the absence of applicable codes to a pressure of 25 psi above normal operating pressure of the system.
15. Comply with safety precautions when pressure testing, including use of compressed air, where applicable. Do not use water to pressurize the system if ambient air temperature has the possibility of dropping below 32 degrees F (0 degrees C).

B. Through Penetration Firestop:

- 1. Refer to Section 15010, Para. 5.10, Firestopping for firestopping requirements.
2. A list of firestop manufacturers that list PEX tubing with their firestop system is available from the plumbing manufacturer.

C. Piping:

- a) PEX-A piping (SDR9 cross linked polyethylene manufactured using the Engol method) shall be permitted if the following is met:
(1) Minimum degree of cross-linking shall be between 70-89% when tested in accordance with ASTM D2785, Method B.
(2) Manufactured in accordance with ASTM F876 and ASTM F877 and tested for compliance by an independent, third-party agency.
(3) Piping to have a minimum material designation of PEX 5106.
(4) Potable water piping shall comply with NSF 14 and NSF 61 and bear the NSF-pw marking.
(5) Temperature and pressure requirements in accordance with ASTM F876: 73.4°F at 80psi, 180°F at 100psi and 200°F at 80psi.
(6) Piping shall be PEX-A.
b) PEX-A Manufactured Joints shall be in accordance with ASTM F1960 cold expansion and must comply with the following:
(1) Reinforcing cold-expansion rings shall be manufactured from the same source as PEX-A piping and marked "F1960".
(2) Potable water fittings shall comply with NSF 14 and NSF 61 and bear the NSF-pw marking.
(3) All threaded fittings shall be lead free brass.
Fittings shall have the same nominal diameter as the piping.
(4) Installation of cold expansion fittings shall be performed, documented and submitted per the manufacturer's requirements.
(5) Use tubing manufacturer supplied hangers and clamps shall be Uponor PEX-A Pipe Support system. Supports shall be Series F704 and Series Q741 strapping.
(6) Supports should be supported at intervals not exceeding 8'0".
(7) Maximum distance from clamp/hanger to end of PEX-A Pipe Support is 16".
(8) Maximum distance between PEX-A pipe supports shall be per manufacturer's installation instructions per size of pipe.
(9) Minimum distance from fitting end of ProPEX ring to PEX-A pipe support shall be per manufacturer's installation instructions per pipe size.
e) (1) Installers shall be trained and certified by the PEX-A manufacturer to install the PEX-A potable water distribution system.
(2) Installer will utilize skilled workers holding a trade qualification license or equivalent, or apprentices under the supervision of a licensed tradesman.

6. WASTE PIPING: INSTALL HORIZONTAL DRAIN AND WASTE PIPES WITH 1/4" FT. SLOPE.

A. MATERIALS (SANITARY/GREASE WASTE & VENT): PVC SCH. 40, SOLID CORE (ASTM 2865), WITH SCH. 40 DRAINAGE PATTERN PVC FITTINGS AND SOLVENT CEMENTED JOINTS WITH TINTED PRIMER.

EXCEPTION: SEE PLAN NOTES AND RISER DIAGRAM FOR UIG GREASE WASTE LINE BETWEEN COOKING LINE FLOOR DRAIN AND GREASE WASTE MAIN. THIS LINE SHALL BE INSTALLED WITH SERVICE WEIGHT, COATED & LINED, CAST IRON SOIL PIPE WITH MECHANICAL HUB & SPIGOT PUSH-ON JOINTS.

B. MATERIALS (ABOVEGROUND INDIRECT DRAIN AND CONDENSATE DRAIN LINES): TYPE "M" COPPER TUBE, HARD DRAWN, WITH COPPER OR BRASS DRAINAGE PATTERN FITTINGS AND SOLDERED JOINTS.

C. INSULATION: INSULATE ALL ABOVEGROUND INDIRECT OR CONDENSATE DRAIN LINES COLLECTING COLD CONDENSATE FROM REFRIGERATION OR HVAC EQUIPMENT. INSULATION SHALL BE 1/2" THICK ARMAFLEX, OR EQUAL.

D. HEAT TRACING: HEAT TRACE ALL CONDENSATE DRAIN LINES INSIDE COOLERS AND FREEZERS AT 5 WATTS/LINEAR FOOT (MINIMUM).

7. PIPE SLEEVES/ESCUTCHEONS: PROVIDE CHROME-PLATED ESCUTCHEONS ON ALL PIPES PASSING THROUGH WALLS, FLOORS, OR CEILING OF FINISHED ROOMS. ESCUTCHEONS TO BE BEATON & CADWELL, #10, 40, 60 OR EQUIVALENT WITH SET-SCREWS. PROVIDE ESCUTCHEONS ON ALL WASTE LINES FROM PLUMBING FIXTURES, WHETHER THROUGH WALLS, FLOORS, AND WHETHER CONCEALED BEHIND COUNTERS OR EXPOSED. PIPE SLEEVES SHALL BE PROVIDED WHEN PIPES PENETRATE FOUNDATION AND SHALL BE 1" LARGER THAN PIPE, SEAL SLEEVES WITH CAULKING.

8. PLUMBING FIXTURES: FURNISH AND INSTALL PLUMBING FIXTURES AS SHOWN ON DRAWINGS WITH ALL ACCESSORIES AND TRIM AS LISTED. ALL FIXTURES SHALL BE PROTECTED THROUGH THE COURSE OF THE CONSTRUCTION. ANY FIXTURE DAMAGED SHALL BE REPLACED WITHOUT ADDITIONAL EXPENSE TO THE OWNER.

9. CONNECTION TO OTHER FIXTURES: CONNECT BUILDING SERVICE PIPING, INCLUDING BUT NOT LIMITED TO WATER, DRAIN, AND GAS PIPES TO FOOD SERVICE EQUIPMENT AS INDICATED IN EQUIPMENT SPECIFICATIONS. PROVIDE BACKFLOW PROTECTION ON ICE MACHINES AND BEVERAGE EQUIPMENT SUPPLY CONNECTIONS.

10. TESTS:

A. DRAINAGE AND VENT PIPING - DRAINAGE AND VENT PIPING SHALL BE TESTED BEFORE THE PLUMBING FIXTURES ARE INSTALLED BY CAPPING THE OPENINGS AND FILLING THE ENTIRE SYSTEM WITH WATER AND ALLOWING IT TO STAND THUS FILLED NOT LESS THAN ONE (1) HOUR. INSPECT WATER LEVEL TO DETERMINE IF PIPING IS TIGHT.

B. WATER PIPING - THE WATER SUPPLY PIPING LINES SHALL BE TESTED BEFORE THE PLUMBING FIXTURES ARE CONNECTED BY FILLING THE ENTIRE SYSTEM WITH POTABLE WATER AND APPLYING HYDROSTATIC PRESSURE OF 100 PSI AND ALLOWING TO STAND FOR NOT LESS THAN FOUR (4) HOURS AT THIS PRESSURE TO PROVE PLUMBING INTEGRITY.

C. GAS PIPING - IN LIEU OF LOCAL REQUIREMENTS, GAS PIPING SHALL BE FILLED WITH COMPRESSED AIR TO 150 PSI AND HELD FOR A PERIOD OF FOUR (4) HOURS. EACH JOINT SHALL BE CHECKED BY LIQUID SOAP OR SPECIAL LIQUID CHEMICAL FOR LEAKS. NOTE: REMOVE ALL GAS VALVES AND PROTECT FROM DAMAGE BEFORE TESTING SYSTEM.

11. DISINFECTION OF POTABLE WATER SYSTEM: UPON COMPLETION OF INSTALLATION DISINFECT THE WATER SYSTEM BY FILLING IT WITH SOLUTION CONTAINING 50 PARTS PER MILLION OF CHLORINE AND ALLOW IT TO STAND FOR NOT LESS THAN SIX (6) HOURS BEFORE FLUSHING THOROUGHLY AND RETURNING TO SERVICE. FURNISH CLEAN WATER SAMPLES TO THE LOCAL AUTHORITY FOR TESTING AFTER THE LINES HAVE BEEN DISINFECTED. THIS PROCEDURE TO BE IN ACCORDANCE WITH STATE PLUMBING CODE.

12. CLEANUP: CLEAN ALL PLUMBING FIXTURES AND EQUIPMENT THOROUGHLY BEFORE FINAL INSPECTION, LEAVING ALL READY FOR USE.

13. EXTENDED WARRANTY: WARRANT IN WRITING ANY EQUIPMENT OR MATERIALS USED IN THE INSTALLATION HAVING AN EXTENDED WARRANTY AS OFFERED BY THE MANUFACTURER. PROVIDE NEW OR REBUILD ASSEMBLIES TO THE SITE FOR ANY SUCH EQUIPMENT OR MATERIALS WHICH FAIL DURING THIS PERIOD, AND INSTALL AT NO ADDITIONAL COST TO THE OWNER.

14. OWNER'S MANUAL: PROVIDE THE OWNER, AT THE COMPLETION OF THIS CONTRACT, WITH AN "OWNER'S MANUAL" SO LABELED. A SECOND-LIKE MANUAL SHALL BE PREPARED AND FORWARDED TO THE MRP'S ARCHITECTURE AND ENGINEERING DEPARTMENT FOR "JOB RECORDS". THE MANUAL SHALL CONSIST OF A THREE-RING LOOSE-LEAF BINDER CONTAINING ALL PRINTED MATTER SUCH AS: GUARANTEE CARDS, CLEANING INSTRUCTIONS, NOTICES TO OWNER, OPERATING MANUALS, AND MAINTENANCE INSTRUCTIONS THAT MAY BE CONTAINED IN THE SHIPPING CARTONS OR HOUSING OF EQUIPMENT AND ARCHITECTURAL SPECIALTIES.

LEGEND

Table with 2 columns: Symbol and Description. Symbols include lines for various piping types (Sanitary Waste, Grease Waste, Vent, Cold Water, Hot Water, Filtered Water, Gas), valves (Gate, Check, Gas Valve, Union), and equipment (Kitchen Equipment Item No., Floor Drain, Hub Drain, Floor Sink, etc.).



400 PERIMETER CENTER TERRACE SUITE 100 ATLANTA, GA 30346 404-455-4660

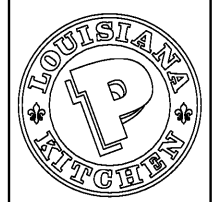


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PREMIER CAJUN KINGS, LLC - POPEYES Near 431 Main St. Shofor, AL 36075 LOUISIANA KITCHEN PLK DESIGN STANDARDS PLK1 1846-DL PROTOTYPE-46 SEATS / DUAL-LINE PRODUCTION



REVISIONS: PERMIT/BID SET 09.27.18

P0 SPECIFICATIONS AND NOTES

DATE: 3/22/18 CHECKED: JRE

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