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**PLUMBING GENERAL NOTES:**

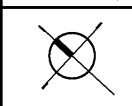
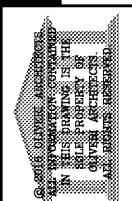
- A. ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE GOVERNING CITY, INCLUDING APPLICABLE SECTIONS OF ANY INTERIM AMENDMENTS AT THE TIME OF THE PROPOSAL. PLUMBING CONTRACTOR SHALL PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK AND OBTAIN ALL INSPECTIONS REQUIRED BY CODE.
- B. CONTRACTORS AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.
- C. COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. PROVIDE PIPE RISES, DROPS, AND OFFSETS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK. IF PLUMBING CONTRACTOR FAILS TO COORDINATE WITH OTHER TRADES AND WORK IS REQUIRED TO BE ALTERED, THE PLUMBING CONTRACTOR WILL BE RESPONSIBLE FOR THE WORK AT THEIR OWN EXPENSE.
- D. DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE PIPING, CONNECTIONS, FITTINGS, VALVES, OFFSETS, ETC. AND ALL MATERIALS NECESSARY FOR A COMPLETE SYSTEM.
- E. PROVIDE BACKFLOW PREVENTION DEVICES IN WATER LINES FEEDING PLUMBING FIXTURES AND/OR EQUIPMENT, AS SHOWN ON PLANS AND ELSEWHERE AS REQUIRED BY LOCAL AUTHORITIES. USE DEVICES OF APPROVED TYPE (ASSE LISTED ATMOSPHERIC VACUUM, PRESSURE VACUUM, DOUBLE CHECK, REDUCED PRESSURE ZONE) AND MANUFACTURER.
- F. VERIFY SERVICE CONNECTION POINTS, SIZES, ELEVATIONS, INVERTS, AND METERING LOCATIONS FOR PROJECT WITH LOCAL UTILITIES CO. AND/OR CIVIL ENGINEER. SERVICES TO INCLUDE BUT NOT LIMITED TO DOMESTIC WATER, FIRE, SANITARY SEWERS, STOP SEWER GAS, ETC.) PRIOR TO STARTING WORK.
- G. VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. IF PRESSURE AT BUILDING ENTRY PRIOR TO ALL LOCALLY REQUIRED DEVICES SUCH AS WATER METER, BACKFLOW PREVENTION DEVICES, ETC. IS LESS THAN 55 PSIG STATIC CONTACT OWNERS REPRESENTATIVES. IF PRESSURE IS IN EXCESS OF 80 PSIG, INSTALLATION OF A PRESSURE REDUCING VALVE IS REQUIRED.
- H. PLUMBING CONTRACTOR TO VISIT THE SITE PRIOR TO SUBMITTING BID, INCLUDE ANY ADDITIONAL ITEMS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
- I. ALL CUTTING OF EXISTING FLOORS, EXCAVATION AND BACKFILL TO BE PART OF THE PLUMBING CONTRACTOR BID. PATCHING OF FLOORS AND ROOF TO BE BY GENERAL CONTRACTOR.
- J. PLUMBING CONTRACTOR TO REMOVE FROM THE SITE ANY SURPLUS EXCAVATION.
- K. EXTERIOR GAS LINE PIPING TO BE PAINTED TO MATCH BUILDING EXTERIOR.
- L. COORDINATE ALL FLOOR PENETRATIONS WITH STRUCTURAL DRAWINGS. SET SLEEVES IN FLOORS AND WALLS AND ATTACHMENTS FOR WINDERS AS CONSTRUCTION PROGRESSES. ALL PENETRATIONS MUST BE SEALED AND HELD AS TIGHT TO COLUMNS OR WALLS AS POSSIBLE.
- M. ALL PIPING SHALL BE CONCEALED INSIDE WALLS, BELOW FLOORS OR ABOVE CEILINGS UNLESS INDICATED OTHERWISE.
- N. ALL PIPING SHALL BE SUPPORTED AS PER THE MINIMUM GRADE REQUIRED BY CODE (UNLESS NOTED OTHERWISE FOR EACH PARTICULAR PIPE SIZE).
- O. COORDINATE UNDERGROUND PIPING WITH GRADE BEAMS AND WALL FOOTINGS.
- P. DO NOT RUN PLUMBING PIPING THROUGH ELECTRICAL ROOMS, DIRECTLY ABOVE ELECTRICAL PANELS OR THROUGH OTHER WATER SENSITIVE AREAS.
- Q. PROVIDE WATER HAMMER ARRESTORS IN ALL BRANCH LINES SERVING FIXTURES, BANK OF FIXTURES, AND ALL FIXTURES/EQUIPMENT WITH QUICK CLOSING VALVES, SOLENOID VALVES AND/OR FLUSH VALVES IN ACCORDANCE WITH STANDARD FDI-WH-20 AND THE LOCAL PLUMBING CODE.
- R. PLUMBING VENTS EXTENDING THROUGH ROOF SHALL TERMINATE AT 1'-0" (MINIMUM) ABOVE ROOF AND AT A MINIMUM DISTANCE OF 12'-0" HORIZONTALLY FROM ANY AIR INTAKE OR OPERABLE WINDOW.
- S. ALL EQUIPMENT, PIPING, APPURTENANCES SHALL BE PROTECTED FROM DEBRIS AND DAMAGE. SENSITIVE EQUIPMENT SHALL NOT BE DELIVERED TO THE JOB SITE UNTIL SUCH TIME AS IT IS TO BE INSTALLED. PIPING ENDS SHALL BE CLOSED BY TEMPORARY MEANS WHEN PORTIONS OF THE SYSTEM ARE NOT COMPLETE.
- T. LOCATE ALL VALVES WHERE THEY ARE ACCESSIBLE FOR SERVICE AND USE. WHERE ACCESS PANELS ARE REQUIRED COORDINATE SELECTION AND LOCATION WITH ARCHITECT.
- U. PROVIDE TRAP PRIMER AND CONNECTION FOR ANY FLOOR DRAIN, FLOOR SINK OR HUB DRAIN NOT SUBJECT TO REGULAR FLOW.
- V. ALL PENETRATIONS AT FLOORS AND RATED PARTITIONS SHALL HAVE A UL CLASSIFIED FIRE STOP SYSTEM TESTED TO ASTM E814 AND UL 1491 BY UNDERWRITERS LABORATORIES. FIRE STOP SYSTEMS SHALL BE PROSET SYSTEMS, PENSL FIRESTOP SYSTEMS OR 3M COMPANT.
- W. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES. EXACT LOCATION OF ALL FIXTURES MUST BE VERIFIED IN THE FIELD PRIOR TO INSTALLATION. FINAL LOCATION SHALL BE AS DIRECTED BY THE GENERAL CONTRACTOR.
- X. PLUMBING CONTRACTOR TO COORDINATE WITH TENANT ON EXACT LOCATION OF ROUGH-INS.
- Y. ALL MIXING VALVES SHALL BE SET TO PROVIDE WATER AT TEMPERATURES THAT COMPLY WITH ASSE 1210 STANDARDS FOR PERFORMANCE REQUIREMENTS FOR WATER TEMPERATURE LIMITING DEVICES.
- Z. MATERIALS IN PLENUM SPACES SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE - DEVELOPED INDEX OF NOT MORE THAN 50 PER IMC 602.21.
- AA. PLUMBING CONTRACTOR TO VERIFY INVERT OF ALL TIE-IN POINTS INDICATED ON PLAN PRIOR TO INSTALLATION. NOTIFY ARCHITECT IMMEDIATELY IF EXISTING INVERT WILL BE INSUFFICIENT.
- AB. WHERE AIR ADMITTANCE VALVES SHALL BE INSTALLED, PRIOR TO INSTALLATION PERFORM TESTING REQUIRED BY SECTION 312 OF THE 2009 IFC.
- AC. ALL PIPING PENETRATING CEILING AND WALLS SHALL BE INSTALLED WITH CHROME-PLATED ESCUTCHEONS AT THE PENETRATION. ALL PIPING PENETRATING EXTERIOR WALLS AND ROOFS SHALL BE FLASHED IN AN APPROVED MANNER AND SHALL BE PROTECTED AS REQUIRED BY LOCAL CODE AUTHORITY.
- AD. TOPS OF ALL FLOOR DRAINS AND CLEANOUTS SHALL BE SET FLUSH WITH FINISHED FLOOR.
- AE. ALL PIPING ABOVE GRADE SHALL BE PROPERLY SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE.
- AF. PLUMBING CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS, AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN THEREIN.
- AG. WATER PIPING ROUTED ABOVE CEILINGS SHALL BE ROUTED ON HEATED SIDE (UNDERSIDE) OF CEILING INSULATION.
- AH. ALL PLUMBING EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER START-UP.
- AI. INCLUDE THE COST IN BID TO USE LANDLORD'S ROOFER (AND ANY OTHER LANDLORD DESIGNATED CONTRACTORS) IF DIRECTED BY CONSTRUCTION MANAGER.

**PLUMBING FOOD SERVICE NOTES:**

- A. FOOD SERVICE EQUIPMENT IS FURNISHED AND INSTALLED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR AS INDICATED BY FOOD SERVICE DOCUMENTATION INCLUDED UNDER SEPARATE CONTRACT WITH THE DESIGN DOCUMENTATION FOR THIS PROJECT. PLUMBING ACCESSORIES, INCLUDING FAUCETS, DRAINS, VALVES, PRESSURE FLOW REGULATORS, FILTERS, ETC. IS FURNISHED LOOSE WITH THE FOOD SERVICE EQUIPMENT, FOR INSTALLATION AND FINAL CONNECTION BY THE PLUMBING CONTRACTOR, UNLESS INDICATED OTHERWISE.
- B. INSTALL FOOD SERVICE EQUIPMENT PIPING AND ACCESSORIES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS. SEE FOOD SERVICE DOCUMENTATION FOR SPECIFIC DIRECTION AT INDIVIDUAL ITEMS.
- C. SEE FOOD SERVICE DOCUMENTATION FOR ADDITIONAL INFORMATION PERTAINING TO FOOD SERVICE EQUIPMENT PLUMBING REQUIREMENTS, INCLUDING UTILITIES REQUIRED, CONNECTION SIZES AND ROUGH-IN LOCATIONS FOR SPECIFIC ITEMS (SUPPLY AND DRAIN). COORDINATE FINAL INSTALLATION WITH THE FOOD SERVICE EQUIPMENT ACTUALLY INSTALLED. LOCATIONS OF FLOOR DRAINS, FLOOR SINKS AND OTHER ASSEMBLIES UTILIZED FOR INDIRECT DRAINAGE FROM FOOD SERVICE EQUIPMENT, ARE TO BE DETERMINED FROM THE ARCHITECTURAL SLAB PLAN. THE PLUMBING CONTRACTOR SHALL EXTEND PIPING BELOW COUNTERS, IN CASEWORK OR STRUCTURE AS REQUIRED FROM DROP OR RISE POINTS INDICATED ON PLANS TO EQUIPMENT CONNECTION POINTS.
- D. ALL FOOD SERVICE EQUIPMENT INTERCONNECTING PIPING (SUPPLY AND DRAIN) IS FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR UNLESS INDICATED OTHERWISE ON THESE OR THE FOOD SERVICE DRAWINGS. SEE FOOD SERVICE DRAWINGS FOR PIPING NOT SHOWN ON PLUMBING CONTRACT DRAWINGS, INCLUDING CONDENSATION DRAIN PIPING FROM REFRIGERATION EQUIPMENT. ALL DRAIN PIPING WITHIN REFRIGERATOR FREEZER ENCLOSURE SHALL BE INSULATED AS SPECIFIED FOR DOMESTIC HOT WATER PIPING TO A POINT 24" OUTSIDE OF ENCLOSURE. FOOD SERVICE EQUIPMENT CONTRACTOR SHALL PROVIDE TRACING UNDERNEATH INSULATION FOR ENTIRE LENGTH OF DRAIN PIPING WITHIN WALK-IN FREEZER. COORDINATE INSTALLATION WITH FOOD SERVICE AND ELECTRICAL CONTRACTORS.
- E. WHERE WASTE LINES FROM FOOD SERVICE EQUIPMENT ARE INDICATED TO BE INDIRECTLY DISCHARGED TO THE SANITARY SYSTEM, A MINIMUM AIR GAP OF 2", OR TWICE THE EFFECTIVE OPENING OF THE INDIRECT WASTE PIPE, SHALL BE MAINTAINED ABOVE THE FLOOD RIM OF THE DRAIN PER "SAFE WASTE" REQUIREMENTS.
- F. PLUMBING SUPPLY PIPING (DHW, DOW, ETC.) SERVING FOOD SERVICE EQUIPMENT PROVIDED WITH SOLENOID VALVES OR OTHER QUICK-CLOSING DEVICES SHALL HAVE A SHOCK ABSORBER FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR AT THE TOP OF THE SUPPLY DROP OR BASE OF SUPPLY RISER INDICATED ON PLANS. MULTIPLE ITEMS SERVED BY A COMMON SUPPLY DROP OR RISE MAY BE SERVED BY A SINGLE SHOCK ABSORBER, SIZED AND INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS FOR TYPE AND QUANTITY OF FIXTURES SERVED. WHERE QUICK CLOSING DEVICES SUPPLY PIPING IS FURNISHED WITH A BACKFLOW PREVENTER OR CHECK VALVE, THE SHOCK ABSORBER SHALL BE INSTALLED DOWSTREAM SIDE OF THE BACKFLOW PREVENTER OR CHECK VALVE.
- G. WHERE A SINGLE PLUMBING SUPPLY DROP OR RISE SERVES MULTIPLE FOOD SERVICE ITEMS, VERIFY LOCATIONS AND SIZES OF INDIVIDUAL SUPPLY CONNECTIONS FROM THE FOOD SERVICE CONTRACT DRAWINGS. PROVIDE INDIVIDUAL SUPPLY BRANCHES TO EQUIPMENT, WITH STOP VALVES AS REQUIRED.
- H. EACH FOOD SERVICE FIXTURE AND/OR PIECE OF EQUIPMENT TO BE PROVIDED WITH INDIVIDUAL IN-LINE STOP VALVE IN EACH PLUMBING SUPPLY CONNECTED. NATURAL GAS STOPS TO BE A.G.A. LISTED TWO PIECE BALL VALVE WITH LEVER HANDLE.
- I. RUN PIPING CONCEALED WHENEVER POSSIBLE. IN STRUCTURE OR CASEWORK SECURE PIPING TO STRUCTURE PROVIDED UNDER SEPARATE CONTRACT WITHIN CASEWORKS (WHERE APPLICABLE) WITH COMPATIBLE FASTENERS PROVIDED BY THE PLUMBING CONTRACTOR.
- J. COORDINATE INSTALLATION OF ALL ITEMS AND VERIFY CONDITIONS IN ADVANCE WITH THE FOOD SERVICE FIXTURES/EQUIPMENT CONTRACTOR(S).
- K. GREASE BEARING DRAIN/WASTE PIPING FROM FIXTURES AND/OR EQUIPMENT TO INTERCEPTOR IS TO BE SLOPED AT A MINIMUM 1/4" PER LINEAR FOOT PER CODE REQUIREMENTS.
- L. INSULATE ALL HOT WATER AND ALL COLD WATER PIPING PER SPECIFICATIONS.
- M. COMPLY W/ LOCAL HEALTH DEPARTMENT REGULATIONS. OMIT ESCUTCHEONS IN FOOD SERVICE AREAS. SEAL PIPES NEATLY WITH GROUT AT WALL, FLOOR OR CEILING PENETRATIONS. OMIT INSULATION ON EXPOSED PIPING BEHIND AND UNDER EQUIPMENT. PROVIDE CLEARANCE BEHIND AND UNDER EXPOSED PIPING AS REQUIRED BY HEALTH DEPARTMENT. WHEREVER POSSIBLE, INSTALL PIPING IN FOOD SERVICE AREAS CONCEALED. CONFORM TO HEALTH DEPARTMENT REQUIREMENTS FOR LOCATIONS OF FLOOR SINKS. NO EXPOSED PEX TUBING IF PEX TUBING IS USED.
- N. FURNISH ACCESS DOORS TO ALLOW ACCESS TO VALVES LOCATED ABOVE GYPSUM WALLBOARD CEILINGS OR ELSEWHERE AS REQUIRED OR SHOWN. COORDINATE THE LOCATION AND INSTALLATION OF ALL ACCESS DOORS WITH THE GENERAL TRADES CONTRACTOR.

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