

GENERAL NOTES

- A. CONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS, SPECIFICATIONS AND EXISTING CONDITIONS FOR BIDDING PURPOSES. FAILURE TO ACQUANT THEMSELVES WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THEIR WORK.
B. NOT ALL EXISTING EQUIPMENT, PIPING, DUCTWORK, ETC. IS SHOWN ON THE PLANS. ALL EXISTING EQUIPMENT AND PIPING SHOWN DOES NOT REFLECT ALL OFFSETS, LENGTHS AND LOCATIONS. CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT AND PIPING TO BE REMOVED AND/OR CONNECTED TO PRIOR TO BID.
C. FIELD VERIFY LOCATIONS AND QUANTITY OF ALL EXISTING EQUIPMENT, FIXTURES, DUCTWORK AND PIPING NECESSARY TO COMPLETE SCOPE OF WORK.
D. CONCRETE CUTS SHALL BE STRAIGHT AND CLEAN. REPLACE SLAB WITH CONCRETE FLUSH AND SMOOTH WITH ADJACENT.
E. WASTE & VENT PIPING BELOW GRADE AND THRU FLOOR SHALL BE 2" MINIMUM.
F. FIELD VERIFY SIZE, LOCATION & INVERT ELEVATION OF EXISTING SANITARY SEWER.
G. PITCH ALL UNDERFLOOR SANITARY WASTE PIPING 4" AND GREATER AT 1/8" PER FOOT. ALL OTHER BELOW GRADE PIPING SLOPED AT 1/4" PER FOOT.
H. CLEANOUTS MUST BE INSTALLED WHERE SHOWN ON PLANS AND ADDITIONAL CLEANOUTS WHERE REQUIRED BY CODE.
I. REFER TO SANITARY RISER ON P-5 FOR ADDITIONAL SIZES AND NOTES. REFER TO SHEET P-2 FOR ADDITIONAL NOTES, DETAILS AND SCHEDULES.
J. PLUMBING CONTRACTOR SHALL PROVIDE CROSS CONNECTION CONTROL PER IPC 606.
K. WASTE AND VENT PIPING IN PLENUM CEILING SPACES TO BE CAST IRON NO HUB, SEE SPECIFICATIONS.
L. IF APPLICABLE, REFER TO GAS RISER DIAGRAM ON P-5 FOR ADDITIONAL GAS PIPE SIZES AND NOTES.
M. COORDINATE ROUTING OF WATER, VENT, WASTE AND STORM PIPING WITH STRUCTURE, CEILING ELEVATION, ELECTRICAL SWITCHGEAR, DUCTWORK, LIGHTS, SPRINKLER PIPING AND ALL OTHER TRADES.
N. ALL HUB DRAINS AND INDIRECT DRAINS SHALL BE MOUNTED IN EXPOSED READILY ACCESSIBLE LOCATIONS. COORDINATE FINAL DRAIN LOCATIONS WITH KITCHEN EQUIPMENT.
O. MATERIAL EXPOSED WITHIN RETURN AIR PLENUM CEILINGS SHALL COMPLY WITH IMC SECTION 602.2, LATEST EDITION.
P. PLUMBING SUBCONTRACTOR SHALL BE RESPONSIBLE FOR TESTED & RATED FIRE STOP SYSTEMS FOR ALL THRU-PENETRATION OF WALLS, FLOORS & ROOF ASSEMBLIES RESULTING FROM PIPING & OTHER WORK UNDER HIS CONTRACT. REFER TO FIRESTOPPING SPEC SECTION FOR REQUIREMENTS.
Q. PLUMBING CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT AND PIPING NOT BEING USED IS FULLY REMOVED AND NOT ABANDONED. COORDINATE REQUIREMENTS WITH THE GENERAL CONTRACTOR AND LANDLORD. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. VERIFY SCOPE OF WORK WITH THE GENERAL CONTRACTOR PRIOR TO BID AND INCLUDE ALL COSTS IN BID AS DIRECTED BY THE GENERAL CONTRACTOR.
ALL INSTALLATIONS, EQUIPMENT AND MATERIAL SHALL COMPLY WITH ALL APPLICABLE LANDLORD REQUIREMENTS.

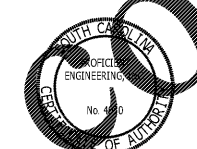
SPECIFICATIONS

- DIVISION 15000 - MECHANICAL
SECTION 15001 - BASIC MECHANICAL REQUIREMENTS
A. GENERAL CONDITIONS
1. THE DRAWINGS AND GENERAL CONDITIONS, INCLUDING SUPPLEMENTARY GENERAL CONDITIONS SHALL APPLY TO ALL WORK IN DIVISION 15000.
2. THE CONTRACTOR FOR THIS DIVISION SHALL REVIEW THE DRAWINGS AND ACCOMPANYING SPECIFICATIONS, EXAMINE THE SITE, CHECK AS TO THE MEANS OF MAKING CONNECTIONS TO SERVICES, AND SHALL BECOME FAMILIAR WITH ALL THE EXISTING CONDITIONS AND LIMITATIONS BEFORE SUBMITTING A PROPOSAL. ANY APPARENT VARIANCES OF THE PLAN OR SPECIFICATION FROM THE EXISTING CONDITIONS AT THE SITE SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER DURING THE BID PERIOD SO THAT CLARIFICATION CAN BE MADE BY ADDENDUM. ITEMS KNOWN TO BE INCONSISTENT WITH THE BID DOCUMENTS INTENT MUST BE LISTED AND QUOTED ON THE CONTRACTORS BID FORM. NO EXTRAS WILL BE ALLOWED BECAUSE OF THE CONTRACTORS MISUNDERSTANDING AS TO THE AMOUNT OF WORK INVOLVED OR HIS LACK OF KNOWLEDGE OF ANY SITE CONDITIONS WHICH MAY AFFECT HIS WORK.
3. COORDINATION OF SCHEDULING FOR COMPLETION AND ALL INSPECTIONS OF THEIR WORK AND WORK OF SUBCONTRACTORS IS THE RESPONSIBILITY OF THIS CONTRACTOR.
4. BEFORE SUBMITTING A PROPOSAL ON THE WORK CONTEMPLATED ON THESE DRAWINGS AND ACCOMPANYING SPECIFICATIONS, EACH BIDDER SHALL EXAMINE THE SITE, CHECK AS TO THE MEANS OF MAKING CONNECTIONS TO SERVICES, AND SHALL BECOME FAMILIAR WITH ALL THE EXISTING CONDITIONS AND LIMITATIONS. MECHANICAL EQUIPMENT AND SYSTEMS SHOWN AS EXISTING ON THE PLANS HAVE BEEN BASED ON EXISTING DRAWINGS. NO EXTRAS WILL BE ALLOWED BECAUSE OF THE CONTRACTOR'S MISUNDERSTANDING AS TO THE AMOUNT OF WORK INVOLVED OR HIS LACK OF KNOWLEDGE OF ANY SITE CONDITIONS WHICH MAY AFFECT HIS WORK. ANY APPARENT VARIANCE OF THE PLAN OR SPECIFICATION FROM EXISTING CONDITIONS AT THE SITE SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER DURING THE BID PERIOD SO CLARIFICATION CAN BE MADE BY ADDENDUM.
SECTION 15002 - GENERAL REQUIREMENTS
1. WORK TO BE ACCOMPLISHED ON THESE DRAWINGS AND SPECIFICATIONS INCLUDES FURNISHING ALL LABOR, MATERIAL, EQUIPMENT AND SERVICES FOR THE COMPLETION OF ALL MECHANICAL WORK. ALL MECHANICAL WORK UNLESS NOTED TO BE SPECIFICALLY BY THE LANDLORD IS THE RESPONSIBILITY OF THIS CONTRACTOR.
2. THIS CONTRACTOR AND THEIR SUB CONTRACTORS SHALL WORK CLOSELY WITH THE TENANT PROJECT MANAGER FOR COORDINATION OF TRADES AND COMPLETION OF THE PROJECT.
3. PLANS AND SPECIFICATIONS ARE COMPLEMENTARY AND WHAT IS CALLED FOR IN EITHER ONE SHALL BE AS BINDING AS IF CALLED FOR IN BOTH. ANY ITEM OR LABOR THAT IS NECESSARY TO COMPLETE THE WORK AND IS TYPICALLY INCLUDED IN SIMILAR WORK SCOPE SHALL BE FURNISHED AND INSTALLED AS PART OF THE CONTRACT WHETHER OR NOT IT IS SHOWN ON THE PLANS OR IN THE SPECIFICATIONS.
4. WHEN THE INCLUDED DRAWINGS AND/OR SPECIFICATIONS CALL OF ITEMS WHICH EXCEED THE LANDLORDS TENANT CRITERIA OR EXCEED CODE, IT'S THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL THE MORE STRINGENT REQUIREMENTS NOTED ON THE PLANS AND/OR SPECIFICATIONS. IF THE PLANS AND SPECIFICATIONS HAVE DISCREPANCIES BETWEEN THEM, THE CONTRACTOR SHALL ASSUME IN THEIR BID THAT THE MORE STRINGENT ITEM IS REQUIRED AT NO ADDITIONAL COST.
5. ALL PIPING, DUCTWORK AND EQUIPMENT SHALL BE FURNISHED AND INSTALLED TO PRESENT A NEAT AND CLEAN APPEARANCE USING GOOD CONSTRUCTION PRACTICES. EQUIPMENT SHALL BE INSTALLED FOR PROPER ACCESS TO OPERATE, SERVICE AND MAINTAIN THE EQUIPMENT WITHOUT HAVING TO MOVE OTHER EQUIPMENT FOR ACCESS. ANY MECHANICAL EQUIPMENT (OR EXISTING EQUIPMENT TO REMAIN) THAT REQUIRES ACCESS PANELS SHALL HAVE THOSE PANELS FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
6. UNLESS SPECIFICALLY NOTED ON THE PLANS/SPECIFICATIONS ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND BEST QUALITY TO CONFORM TO THE REQUIREMENTS OF THE LANDLORDS TENANT CRITERIA, LOCAL AND STATE CODES GOVERNING THE WORK INVOLVED AND BE MADE BY NATIONALLY RECOGNIZED MANUFACTURES WITH UL LISTINGS AND LABELS.
SECTION 15003 - CODES
1. ALL WORK SHALL BE INSTALLED IN CONFORMITY OF THE LANDLORDS TENANT CRITERIA, AND APPLICABLE LOCAL CODES AND ORDINANCES AND STATE STATUTES. ALL REQUIREMENTS OF THE CURRENT PLUMBING CODES, HEATING AND VENTILATION CODES, HEALTH AND SAFETY CODES, NFPA CODES AND ENERGY CODES MUST BE MET. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INQUIRE INTO AND COMPLY WITH ALL LOCAL ORDINANCES AND INCLUDE ANY ADDITIONAL ITEMS NOT NOTED IN THE PLANS/SPECIFICATIONS IN THEIR BID. ANY CHANGES TO THE MECHANICAL SYSTEM AS REQUIRED BY LOCAL, STATE OR TENANT CRITERIA THAT ARE NOT QUALIFIED ON THE CONTRACTORS BID FORM ARE ASSUMED TO BE INCLUDED IN THE ORIGINAL BID AND ADDITIONAL COSTS WILL NOT BE DED. TO COMPLETE THOSE ITEMS AFTER THE CONTRACT IS ISSUED.
SECTION 15004 - LICENSES, PERMITS, INSPECTIONS & FEES
1. THIS CONTRACTOR IS RESPONSIBLE FOR ALL FEES, CHARGES AND OBLIGATIONS IN OBTAINING PERMITS AND INSPECTIONS FOR PLUMBING, HEATING AND VENTILATION AND FIRE PROTECTING.
2. ALL CERTIFICATES OF INSPECTION AND FINAL INSPECTIONS SHALL BE OBTAINED OVER BY THE TENANT'S PROJECT MANAGER AT THE COMPLETION OF THE PROJECT.
SECTION 15005 - TRADE NAMES, MANUFACTURERS AND SHOP DRAWINGS
1. IN ANY CASE WHERE A SPECIFIC NAME OF TRADEMARK OR MATERIAL IS MENTIONED ON THE DRAWINGS OR SPECIFICATIONS THE EXACT EQUIPMENT SHALL BE USED OR THE BASE BID. EQUIPMENT OF EQUAL GRADE AND QUALITY WILL BE SUBJECT TO OWNER APPROVAL. THE TENANT'S PROJECT MANAGER AND THE ENGINEER IN WRITING THRU THE SHOP DRAWING SUBMITTAL PROCESS. ANY EQUIPMENT INSTALLED WITHOUT WRITTEN APPROVAL WILL BE CHANGED OUT TO THE SPECIFIED EQUIPMENT AT THE CONTRACTORS EXPENSE.
2. MECHANICAL CONTRACTOR SHALL SUBMIT COPIES OF SHOP DRAWINGS TO THE TENANT'S PROJECT MANAGER FOR APPROVAL. IF APPROVED, COPIES WILL BE STAMPED "NO EXCEPTIONS" OR "APPROVED AS NOTED" AND WILL BE RETURNED TO THE CONTRACTOR. IF NOTATIONS AND MARKS INDICATE THAT REVISED INFORMATION IS REQUIRED, THEN CORRECTED INFORMATION SHALL BE SUBMITTED.
SECTION 15006 - GUARANTEE
1. THIS CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR AND DEFECTS WHICH MAY DEVELOP IN ANY PART OF THE SYSTEMS CAUSED BY FAULTY WORKMANSHIP, MATERIAL OR EQUIPMENT, AND AGREES TO REPLACE ANY FAULTY WORKMANSHIP, MATERIAL OR EQUIPMENT DURING A PERIOD OF 12 MONTHS FROM THE DATE OF FINAL ACCEPTANCE WITHOUT ANY COST TO THE OWNER. ANY EXTENDED WARRANTIES (LONGER THAN 12 MONTHS) FOR EQUIPMENT WILL BE NOTED ON THE SCHEDULES, PLANS OR SPECIFICATIONS.
2. EACH PIECE OF EQUIPMENT FURNISHED BY THE CONTRACTOR SHALL HAVE A 12 MONTH WARRANTY FOR MATERIAL AND LABOR AT STARTS UPON THE DATE OF FINAL ACCEPTANCE AS DESIGNATED BY THE TENANT'S PROJECT MANAGER. ALL COSTS FOR THE WARRANTY (MATERIAL AND LABOR) SHALL BE INCLUDED IN THE ORIGINAL BID.
SECTION 15007 - RECORD DRAWINGS
1. THIS CONTRACTOR SHALL MAINTAIN AT THE JOB SITE A SET OF DRAWINGS TO BE USED SPECIFICALLY FOR RECORDING CHANGES FROM THE CONTRACT DOCUMENTS. THE INFORMATION SUCH AS VALVES, DUCT AND PIPE DEVIATIONS SHOULD BE DIMENSIONED FROM EASILY RECOGNIZABLE REFERENCE POINTS INDICATING BOTH HORIZONTAL AND VERTICAL DISTANCES.
2. THE CONTRACTOR SHALL SUBMIT A FINAL SIGNED SET OF AS-BUILT DRAWINGS TO THE TENANTS PROJECT MANAGER AT THE COMPLETION OF THE PROJECT.
3. THE CONTRACTOR SHALL SUBMIT TO THE TENANTS PROJECT MANAGER AT THE END OF THE PROJECT (2) COMPLETE HARD BOUND SET OF CATALOG DATA, MANUFACTURES LITERATURE, DETAIL MANUALS COVERING THE OPERATION AND MAINTENANCE OF ALL EQUIPMENT SPECIFIED.
SECTION 15008 - DISCREPANCIES IN DOCUMENTS
1. THE DRAWINGS OF PIPING AND DUCTWORK SYSTEMS SHALL BE INSTALLED SUBSTANTIALLY AS SHOWN ON THE PLANS. THE EXACT POSITION OF EACH AND EVERY PIPE, DUCT, OFFSET AND TRANSITION CANNOT BE GIVEN BY SCALING THE DRAWINGS BUT SHALL IN EVERY CASE BE PLACED SO AS TO AVOID INTERFERENCE WITH OTHER WORK. ALL NECESSARY CHANGES IN THE LOCATION OF PIPE OR DUCTWORK FOR ITS PROPER INSTALLATION AND TO AVOID CONFLICT WITH OTHER TRADES SHALL BE DONE BY THE CONTRACTOR AT NO ADDITIONAL CHARGE.
SECTION 15009 DEMOLITION
1. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE DEMOLITION OF EXISTING WORK AND THE DEMOLITION PROVIDED BY THE GENERAL CONTRACTOR. COORDINATE WITH THE GENERAL CONTRACTOR ANY EXISTING EQUIPMENT REQUIRED TO BE LEFT INTACT.
2. EACH CONTRACTOR SHALL VERIFY SCOPE OF WORK WITH THE GENERAL CONTRACTOR FOR THE REMOVAL OF ALL EXISTING FIRE PROTECTION, PLUMBING FIXTURES, PIPING, HVAC UNITS, REFRIGERANT RECAPTURE, EXHAUST FANS, ETC. AND ASSOCIATED ROOF CURBS NOT BEING REUSED ON THIS PROJECT, UNLESS SPECIFICALLY NOTED OTHERWISE.
3. CONTRACTOR MUST VERIFY WITH THE LANDLORD ALL PRESUMED ABANDONED EQUIPMENT, PIPES, DUCTWORK, AND EQUIPMENT PRIOR TO REMOVAL. ROOF CURBS SHALL BE REMOVED AND THE ROOF PATCHED. ALL EXTRANEOUS ITEMS IN THE SPACE OR ON THE ROOF NOT APPLICABLE TO THE NEW WORK MUST BE REMOVED AND ROOF/WALL/FLOOR PATCHED/REPAIRED TO MATCH EXISTING STRUCTURE.
4. EXISTING ABANDONED PIPES, DUCTS, OR EQUIPMENT IN THE FLOOR, EMBEDDED IN CONCRETE, OR OTHERWISE INACCESSIBLE ARE TO BE CUT OFF AND SEALED BELOW OR WITHIN FLOOR OR WALL LEVEL WHEN THEY ARE NOT TO BE REUSED IN THIS PROJECT.
5. IF REQUIRED BY LANDLORD OR CODES, ABANDONED PIPING AND/OR DUCTWORK MUST BE REMOVED TO POINT OF ORIGIN. CONFIRM THE EXTENT OF DEMOLITION WITH THE GENERAL CONTRACTOR AND TENANT PRIOR TO BID AND INCLUDE IN BID PROPOSAL AS DIRECTED BY THE GENERAL CONTRACTOR AND TENANT.

SPECIFICATIONS

- SECTION 15010 - CUTTING AND PATCHING
1. THIS CONTRACTOR SHALL PROVIDE ALL CUTTING AND PATCHING REQUIRED FOR THE INSTALLATION OF HIS EQUIPMENT IN THE BUILDING WALLS, PARTITIONS, FLOORS, CEILINGS, ETC., UNLESS OTHERWISE NOTED. ALL CUTTING AND PATCHING SHALL BE SUBJECT TO THE DIRECTION OF THE LANDLORD, ARCHITECT OR ENGINEER.
2. THIS CONTRACTOR SHALL NOT ENDANGER THE STABILITY OF THE STRUCTURE BY CUTTING, DIGGING OR OTHERWISE ALTERING THE STRUCTURE AND SHALL NOT AT ANY TIME CUT OR ALTER WORK OF ANY OTHER CONTRACTOR.
3. PATCHING OF WALLS, FLOORS AND ROOF SHALL BE OF SAME MATERIAL AND WORKMANSHIP OF THE SURROUNDING MATERIAL WITH FINISHED SURFACE APPEARING THE SAME AS THE SURROUNDING AREAS. ALL PATCHING SHALL BE PERFORMED BY WORKMEN SKILLED IN THAT PARTICULAR TRADE.
4. DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR IN A SUITABLE MANNER ACCEPTABLE TO THE LANDLORD AND TENANT'S PROJECT MANAGERS.
SECTION 15011 - SLEEVES
1. THIS CONTRACTOR SHALL INSTALL SLEEVES IN CONNECTION WITH ALL PIPES PASSING THROUGH ALL WALLS, PARTITIONS AND FLOORS. SLEEVES SHALL EXTEND THROUGH FULL THICKNESS OF WALLS AND FLOORS AND SHALL BE CUT FLUSH WITH THE FINISHED SURFACES. SLEEVES IN SLABS SHALL BE CUT 2" ABOVE THE FLOOR SURFACE.
2. ALL SLEEVES SHALL BE 22 GAUGE GALVANIZED STEEL MINIMUM FINISHED WITH A SMOOTH EDGE AND PROPERLY SUPPORTED.
3. CORE DRILLING FLOORS AND WALLS MUST BE COORDINATED WITH THE LANDLORD AND THE TENANT'S PROJECT MANAGER.
4. THIS CONTRACTOR SHALL FURNISH AND INSTALL FIRE STOPPING AT ALL PENETRATIONS THRU RATED FLOORS TO MAINTAIN THE FIRE RATING. 3M FIRE BARRIER SYSTEMS, FLAME SAFE FIRE RETARDANT SYSTEMS, DOW CORNING, SPECIAL OR EQUAL, THE CONTRACTOR MUST PRESENT UL LISTING DATA SHEETS TO THE TENANT'S PROJECT MANAGER AND LANDLORD TO SHOW THAT THE PENETRATIONS MAINTAIN THE FIRE RATING.
SECTION 15012 - HANGERS
1. FURNISH AND INSTALL BRACKETS, BRACES OR REINFORCING ANGLES AS REQUIRED FOR ALL PARTITIONS NOT SUFFICIENT IN THEMSELVES TO SUPPORT PLUMBING FIXTURES OR OTHER EQUIPMENT.
2. PIPING SHALL BE SUSPENDED FROM CONSTRUCTION ABOVE ANGLE IRON, CLAMP, INSTRUT, HANGER RODS OR PIPING SHALL BE HUNG FROM OTHER PIPING EXISTING OR NEW. CONTRACTOR SHALL COORDINATE WITH LANDLORD CRITERIA AND ALL CODES.
3. ALL PIPES WHICH ARE SPECIFIED TO BE INSULATED SHALL HAVE PREFABRICATED INSULATED METAL SADDLES SIZED FOR THE INSULATION THICKNESS AND CONTINUOUS INSULATION THROUGH THE HANGER. ALL DISSIMILAR METALS MUST BE SEPARATED WITH DIELECTRIC MATERIAL.
DIVISION 15400 - PLUMBING
SECTION 15401 - SUMMARY OF WORK
A. THIS CONTRACTOR SHALL FURNISH, INSTALL AND TEST ALL NECESSARY MATERIAL FOR A COMPLETE OPERATING PLUMBING SYSTEM. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE LOCATION OF THE EXISTING WATER, VENT AND DRAIN LINES TO BE CONNECTED IN ORDER TO COMPLETE THE WORK AS SHOWN ON THE PLANS. ALL MATERIAL SHALL BE NEW AND SHALL BE INSTALLED FOR PROPER ACCESS FOR SERVINGS. ANY ACCESS PANELS NECESSARY FOR SERVING EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR.
SECTION 15402 - MATERIALS
A. THE PLUMBING FIXTURE SCHEDULE IS SHOWN ON PLANS. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO THE MANUFACTURES INSTALLATION INSTRUCTIONS.
B. SANITARY WASTE AND VENT PIPING
1. ALL WASTE DRAINAGE PIPING SERVING CORROSIVE/ACIDIC ENVIRONMENTS INCLUDING BUT NOT LIMITED TO KITCHEN, BAR, SEWER VENTILATIONS, ETC. SHALL BE CONSTRUCTED OF ACID RESISTANT PIPE AND FITTINGS THAT MEET LOCAL CODES AND UL FLAME SPREAD AND SMOKE DEVELOPED RATINGS OF 25/50. ORION PLENUM PLUS OR SIMILAR AS APPROVED BY LANDLORD AND LOCAL AUTHORITY HAVING JURISDICTION. ALL OTHER WASTE AND DRAIN PIPING SHALL BE SERVICE WEIGHT CAST IRON. NO HUB CONNECTIONS SHALL BE USED ABOVE GROUND. HUB AND SPIGOT CONNECTIONS SHALL BE USED BELOW GRADE. GALVANIZED STEEL VENT PIPING MAY BE USED ABOVE GRADE ON 2" OR SMALLER PIPE. NO PVC PIPING WILL BE ALLOWED.
2. ALL WASTE PIPING LOCATED IN THE CEILING OF TENANT SPACES BELOW SHALL BE INSULATED WITH 1" INSULATION WRAP AND ASJ COVERING FOR SOUND INSULATION.
3. CONDENSATE PIPING SHALL BE TYPE "L" HARD DRAWN COPPER TUBE. INSULATE CONDENSATE PIPING WITH 1" INSULATION WRAP AND ASJ COVERING.
C. GREASE WASTE PIPING
1. ALL GREASE WASTE DRAINAGE PIPING SHALL BE CONSTRUCTED OF ACID RESISTANT PIPE AND FITTINGS THAT MEET LOCAL CODES AND UL FLAME SPREAD AND SMOKE DEVELOPED RATINGS OF 25/50. ORION PLENUM PLUS OR SIMILAR AS APPROVED BY LANDLORD AND LOCAL AUTHORITY HAVING JURISDICTION.
2. ALL WASTE PIPING LOCATED IN THE CEILING OF TENANT SPACES BELOW SHALL BE INSULATED WITH 1" INSULATION WRAP AND ASJ COVERING FOR SOUND INSULATION.
D. POTABLE WATER PIPING
1. ALL UNDERSLAB DOMESTIC WATER PIPING SHALL BE CPVC OR PEX. IF NOT ALLOWED BY LOCAL JURISDICTION, PROVIDE TYPE "K" COPPER PIPING WITH MINIMAL JOINTS.
2. ALL ABOVE GRADE PIPING SHALL BE TYPE "L" HARD DRAWN COPPER TUBE WITH SWEAT JOINTS. ALL PIPING CONNECTIONS WITH DISSIMILAR METALS SHALL HAVE DI-ELECTRIC CONNECTIONS.
E. INSULATE ALL HOT WATER, COLD WATER AND INTERIOR CONDENSATE PIPING WITH 1" THICK (K=0.23 @ 75 F) PIPE INSULATION WITH AN ALL SERVICE JACKET TO MEET LOCAL CODES AND UL FLAME SPREAD AND SMOKE DEVELOPED RATINGS. OWENS-CORNING OR EQUAL.
F. TRUEBRO MODEL 102W WHITE INSULATION KIT SHALL BE INSTALLED ON ALL TRAPS AND SUPPLY LINES BELOW LAVATORIES TO MEET ADA.
G. SIOUX CHIEF 650 SERIES ALL STAINLESS STEEL, OR J.R. SMITH HYDROTROLS SHOCK ABSORBERS SHALL BE INSTALLED IN BOTH HOT AND COLD LINES OF PIPING SYSTEM TO PREVENT NOISE AND DAMAGE DUE TO WATER HAMMER. SHOCK ABSORBERS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURES INSTALLATION INSTRUCTIONS.
H. MAXIMUM PIPE SUPPORT SPACING OF 5 FEET. CONTRACTOR SHALL PROVIDE NECESSARY SEISMIC BRACING WHERE REQUIRED BY LANDLORD CRITERIA, CODE AND LOCAL AUTHORITIES.
I. THE CONTRACTOR SHALL STERILIZE NEW AND EXISTING WATER SYSTEM AS REQUIRED BY LOCAL CODES. CONTRACTOR SHALL INSTALL ANY ADDITIONAL SERVICE VALVES NEEDED IN ORDER TO ISOLATE SYSTEM FOR STERILIZING THE WATER SYSTEM.
J. CONTRACTOR SHALL PROVIDE CHROME PLATED ESCUTCHEONS AT ALL EXPOSED PIPE PENETRATIONS IN FINISHED SPACES.
K. FLOOR DRAINS WITH DEEP SEAL TRAPS REQUIRED. INSTALL TRAP PRIMERS IN ALL FLOOR DRAINS. LOCATE CLEAN-OUTS IN WALLS AND FLOORS AS REQUIRED TO MEET LOCAL CODES.
L. CONTRACTOR SHALL PERFORM ALL PIPING PRESSURE/LEAK TESTS BE AS REQUIRED BY LOCAL CODES.
M. ALL ROOF FLASHING SHALL BE SEALED WATERTIGHT AND PERFORMED IN ACCORDANCE TO THE LANDLORD'S CRITERIA.
N. ANY ROOF WORK MUST BE DONE BY THE LANDLORDS APPROVED ROOFING CONTRACTOR IN ORDER TO MAINTAIN THE ROOF WARRANTY. ALL COSTS FOR ROOF WORK MUST BE INCLUDED IN THE BID.
O. CONTRACTOR SHALL FURNISH AND INSTALL WATER METER AND REMOTE READER PER LANDLORD'S CRITERIA OR AS REQUIRED BY LOCAL UTILITIES REQUIREMENTS.
P. IF APPLICABLE.
Q. GAS PIPING
1. FURNISH AND INSTALL A FUNCTIONAL GAS PIPING SYSTEM WITH NECESSARY VALVES, FITTINGS, UNIONS, DIRT LEGS, REGULATORS, METERS, ETC. REFER TO PLANS FOR EXACT REQUIREMENTS.
2. GAS PIPE SHALL BE SCHEDULE 40 BLACK STEEL WITH MALLEABLE THREADED FITTINGS FOR 2" AND SMALLER, AND WITH WELDED JOINTS FOR 2-1/2" AND LARGER.
3. PROVIDE A SHUT-OFF VALVE, 6" DIRT LEG, AND UNION AT EACH EQUIPMENT CONNECTION.
4. PROVIDE LANDLORD APPROVED PIPING SUPPORTS EVERY 5 FEET OR AS REQUIRED BY LANDLORD OR LOCAL AUTHORITY HAVING JURISDICTION, WHICHEVER IS MORE STRINGENT.
5. PAINT AND PRIME ALL EXPOSED GAS PIPING ON ROOF & EXTERIOR OF BUILDING WITH RUST-INHIBITING PAINT. COORDINATE COLOR REQUIREMENTS WITH LANDLORD.
6. TESTING AND PURGING OF GAS PIPING SHALL BE DONE PER THE REQUIREMENTS OF THE LOCAL GAS COMPANY, LOCAL CODES, AND APPLICABLE NFPA 54 CODES.
7. CONTACT AND COORDINATE GAS SERVICE AND METER REQUIREMENTS WITH THE LOCAL GAS COMPANY AND THE MALL'S OPERATIONS MANAGER PRIOR TO BID. INCLUDE INSTALLATION OF VALVES, FITTINGS, UNIONS, DIRT LEGS, REGULATORS, METERS, ETC. COSTS IN BID.

Order Plans

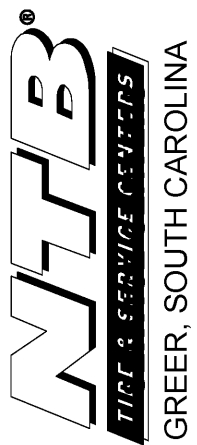


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