

MECHANICAL SPECIFICATIONS

HVAC SPECIFICATIONS

- THE WORK SHALL INCLUDE, FURNISHING AND INSTALLING ALL HEATING, AIR CONDITIONING, VENTILATION, AND EQUIPMENT AS SHOWN ON THE FLOOR PLANS AND AS SPECIFIED HEREIN.
- THE GENERAL AND SPECIAL CONDITIONS AIA DOCUMENT A-201 SHALL COVER THIS WORK TO THE EXTENT THAT THEY APPLY. THE DRAWINGS AND THE SPECIFICATIONS ARE SUPPLEMENTARY TO EACH OTHER AND WHAT IS CALLED FOR BY ONE SHALL BE BINDING AS IF CALLED FOR BY BOTH.
- THE CONTRACTOR SHALL EXAMINE THE DRAWINGS, SPECIFICATIONS AND JOB SITE AND FULLY INFORM HIMSELF OF ALL EXISTING CONDITIONS AND WORK REQUIRED BY THE DRAWINGS AND SPECIFICATIONS BEFORE SUBMITTING HIS BID. OWNER'S OF RESPONSIBILITY OR REQUEST FOR ADDITIONAL PAYMENT BASED ON LACK OF KNOWLEDGE OF EXISTING CONDITIONS AT THE SITE WILL NOT BE ACCEPTED OR CONSIDERED.
- WORK SHALL BE PROTECTED AT ALL TIMES FROM DAMAGE BY PERSONS OR WEATHER AND ALL DAMAGED WORK RESTORED TO A NEW CONDITION BEFORE FINAL ACCEPTANCE.
- ALL THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE WASHINGTON DC MECHANICAL CODE, 2012 PLUMBING CODE, LATEST APPLICABLE NFPA, AND ALL LOCAL CODES AND REGULATIONS. WHERE ANY PORTIONS OF THE SYSTEMS SHOWN ON THE DRAWINGS WHICH IS NOT IN ACCORDANCE WITH ALL APPLICABLE LAWS, ORDINANCES, REGULATIONS OR CODES, THIS CONTRACTOR SHALL MAKE ALL CHANGES REQUIRED BY THE ENFORCING AUTHORITIES IN A MANNER PROVIDED BY THE ENGINEER.
- THE CONTRACTOR SHALL ORDER AND OBTAIN ALL NECESSARY TESTS, PERMITS AND CERTIFICATES OF APPROVAL AND PAY ANY REQUIRED FEES FOR SAME.
- THE CONTRACTOR SHALL COORDINATE ALL HIS WORK WITH THE GENERAL CONTRACTOR AND THE WORK OF THE OTHER DISCIPLINES.
- UNLESS OTHERWISE INDICATED ON THE DRAWINGS, ALL EQUIPMENT SHALL BE NEW AND SHALL BE INSTALLED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- PRIOR TO FABRICATION OF DUCTWORK, THIS CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS. IF DUCTS CANNOT BE INSTALLED AS SHOWN ON THE DRAWINGS, THIS CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY. ANY EXTRA OR DEDUCT NECESSITATED BY THE ABOVE CONDITION SHALL BE SUBMITTED TO THE ARCHITECT IN WRITING PRIOR TO THE CONTINUATION OF THE WORK.
- EXAMINE ALL SERVICES, EQUIPMENT, SURFACES ETC., WHICH THIS WORK IS IN ANY WAY AFFECTED. SHOULD THE CONTRACTOR DISCOVER ANY CONDITIONS WHICH WILL PREVENT FOLLOWING GOOD PRACTICE OR RESULT IN LESS THAN A FIRST-CLASS INSTALLATION, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY AND SHALL NOT PROCEED WITH HIS WORK UNTIL HE HAS RECEIVED INSTRUCTIONS FROM THE ARCHITECT.
- THE CONTRACTOR SHALL GUARANTEE THE ENTIRE INSTALLATION TO BE FREE FROM DEFECTS FOR ONE YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER. ANY DEFECTS OCCURRING DURING THE GUARANTEE PERIOD SHALL BE CORRECTED AT NO ADDITIONAL COST TO THE OWNER.
- ALL EQUIPMENT REQUIRING ELECTRIC POWER SHALL BE SUITED FOR USE WITH THE POWER TO BE SUPPLIED. ALL ELECTRICAL REQUIREMENTS SHALL BE COORDINATED WITH THE ELECTRICAL CONTRACTOR.
- PRIOR TO PURCHASING OF ANY EQUIPMENT, FIXTURES, ETC., SUBMIT SHOP DRAWINGS (6 COPIES) FOR APPROVAL OF THE FOLLOWING ITEMS:
 - HVAC EQUIPMENT
 - FANS
 - AIR HANDLING DIFFUSERS
 - DUCTWORK
 - INSULATION
 - BALANCING CONTRACTOR QUALIFICATIONS
- THE CONTRACTOR SHALL INSTRUCT THE OWNER IN THE OPERATION AND MAINTENANCE OF ALL COMPONENTS OF THE INSTALLATION.
- THREE MAINTENANCE AND INFORMATION MANUAL SHALL BE PREPARED, SUBJECT TO THE ARCHITECT'S APPROVAL, FOR THE OWNER. THE MANUAL SHALL INCLUDE COPIES OF ALL SHOP DRAWINGS, WRITTEN OPERATING INSTRUCTIONS, PARTS LISTS, VENDOR LIST, SERVICES AND MAINTENANCE INSTRUCTIONS FOR ALL EQUIPMENT.
- ALL EQUIPMENT SHALL BE TESTED FOR PROPER OPERATION AND CORRECTED AS NECESSARY.

BASIC MATERIALS AND METHODS

- PIPE HANGER AND SUPPORTS: CLEVIS OR SPLIT RING TYPE SPACING AND ROD SIZE AS RECOMMENDED IN ASHRAE 2005 HANDBOOK AND IN ACCORDANCE WITH INDUSTRY PRACTICE. HANGERS FOR COPPER PIPE SHALL BE COPPER OR COPPER PLATED. GALV. IRON HANGERS SHALL NOT BE USED. HANGERS AND ACCESSORIES SHALL BE FAM CORPORATION OR APPROVED EQUAL.
- ALL PIPE PENETRATIONS OF EXTERIOR WALLS AND FOUNDATION WALLS SHALL BE SLEEVED WITH SCHEDULE 40 PIPE. ALL OPENINGS SHALL BE CAULKED AND SEALED WATERTIGHT.
- THE REFRIGERANT SUCTION AND LIQUID LINES, THERMOSTAT WIRING AND POWER WIRING SHALL ALL BE RUN TOGETHER IN A TIGHT BUNDLE AND SHALL BE SECURED WITH PLASTIC FASTENERS, SPECIFICALLY DESIGNED FOR THIS PURPOSE, AT 18" INTERVALS.
- ALL ROOF PENETRATING SHALL BE FLASHED.

PIPING SPECIALTIES

- PROVIDE ESCUTCHEON PLATES WHEREVER PIPES PASS THROUGH WALLS, FLOORS OR CEILINGS, OUTSIDE DIAMETER TO COVER COMPLETELY. PIPE PENETRATION HOLE OR PIPE SLEEVE, NICKEL OR CHROME FINISH FOR EXPOSED AREAS, PRIME PAINT FINISH FOR CONCEALED AREAS.
- UNIONS: PROVIDE DIELECTRIC UNIONS AT CONNECTIONS BETWEEN FERROUS AND NON-FERROUS PIPING. WATTS, EPCO OR EQUAL.
- PROVIDE UL LISTED PLASTIC PIPE FIRE BARRIER DEVICE AS MANUFACTURED BY 3M WHEREVER PVC PIPE PENETRATES FIRE RATED WALLS.

EQUIPMENT IDENTIFICATION

- PROVIDE IDENTIFICATION TAGS FOR ALL HVAC EQUIPMENT.
 - TAGS SHALL BE NON-FERROUS METAL OR BAKELITE TAG MATERIAL, STAMPED OR ENGRAVED WITH IDENTIFICATION LETTERS AND NUMBERS, AND CHAIN OR WIRE FOR ATTACHMENT. TAGS SHALL BE LOCATED IN AN AREA THAT DOES NOT OBSTRUCT THE PROPER ACCESS FOR SERVICE AND MAINTENANCE.

INSULATION

- PROVIDE INSULATION FOR DUCTWORK, PIPING, AND EQUIPMENT OF TYPES AND THICKNESS SPECIFIED HEREIN. INSULATION SHALL HAVE A FLAME SPREAD RATING NOT EXCEEDING 25 AND A SMOKE DEVELOPED RATING NOT EXCEEDING 50. INSTALL INSULATION IN STRICT CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. A CONTINUOUS VAPOR BARRIER SHALL BE PROVIDED ON ALL COLD PIPING AND COLD AIR DUCTWORK. INSULATION SHALL BE ARMSTRONG, CERTAINTED OR OWENS-CORNING.
- TYPE I - GLASS FIBER, LB. DENSITY DUCT WRAP, FACED WITH A REINFORCED ALUMINUM FOL. KRAFT WITH VAPOR BARRIER FACING AND A 2" TAPING FLANGE. CERTAINTED DUCT WRAP OR OWENS-CORNING ALL SERVICE DUCT WRAP. CUT INSULATION TO STRETCH-OUT DIMENSIONS AS RECOMMENDED BY MANUFACTURER.
- TYPE II - DUCT LINING - 1" THICK SEMI-RIGID, COATED GLASS FIBER, 2 LB. DENSITY, CERTAINTED ULTRALITE OR OWENS-CORNING AEROFLEX DUCT LINER. WHERE DUCTWORK IS ACoustically LINED, ADDITIONAL INSULATION IS NOT REQUIRED ON THE EXTERIOR SURFACE UNLESS OTHERWISE NOTED. CERTAINTED ULTRALITE OR OWENS-CORNING AEROFLEX DUCT LINER.

- TYPE III - FLEXIBLE ELASTOMERIC THERMAL INSULATION WITH A MAXIMUM WATER VAPOR TRANSMISSION OF 0.17 PERM-IN WITH A "K" FACTOR OF 0.27 OR LESS AT 75 F MEAN TEMPERATURE. ARMSTRONG ARMAFLEX II. INSULATION LOCATED OUTDOORS SHALL BE COVERED WITH WEATHER RESISTANT PROTECTIVE FINISH, ARMAFLEX FINISH OR EQUAL.
- TYPE IV - KITCHEN HOOD EXHAUST DUCT INSULATION SHALL BE FIRE BARRIER R15+ DUCT WRAP NON-COMBUSTIBLE UL LISTED FIREPROOF WRAP AS MANUFACTURED BY 3M.
- TYPE V - 2" THICK, RIGID, FIBERGLASS BOARD, 3 LB. 703 FRK. AND VAPOR BARRIER PROTECTIVE COATING CHILDERS CHL-FRM WB CP-35.
- FOR THE SERVICES INDICATED USE INSULATION THICKNESSES AND TYPES AS FOLLOWS:
 - SUPPLY, RETURN AND OUTSIDE AIR DUCTWORK - 1.5", TYPE I.
 - REFRIGERANT PIPING - 5/8", TYPE III.
 - DUCT LINING - TYPE II, WHERE SHOWN ON FLOOR PLANS. WHERE DUCT LINING IS INSTALLED ADDITIONAL INSULATION IS NOT REQUIRED UNLESS OTHERWISE NOTED.
 - SUPPLY, RETURN AND OUTSIDE AIR DUCTWORK IN TIGHT CEILING SPACES (KITCHEN AREA & WONTINY) - 1", TYPE III (SHEET INSULATION).
 - KITCHEN EXHAUST AND MAKE UP AIR DUCTWORK - 2", TYPE IV. DUCTWORK RUNNING OUTDOORS SHALL HAVE PROTECTIVE CANVAS COVER WITH MASTIC. REFER TO TYPICAL DUCT SUPPORT DETAIL FOR INSULATION COVERING/JACKET.
 - SUPPLY, RETURN AND OUTSIDE AIR DUCTWORK OUTSIDE ON ROOF - 2", TYPE V. REFER TO TYPICAL DUCT SUPPORT DETAIL FOR INSULATION COVERING/JACKET.

AIR DISTRIBUTION

- DUCTWORK SHALL BE CONSTRUCTED OF BEST QUALITY GALVANIZED SHEET METAL AND SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. CONSTRUCTION AND INSTALLATION SHALL CONFORM TO THE LATEST DUCT MANUAL OF THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA). ALL DUCTWORK SHALL BE CONSTRUCTED AND SEALED TO MEET 2" PRESSURE CLASSIFICATION.
- SEAL DUCTS TRANSVERSE JOINTS WITH UL LISTED LIQUID OR MASTIC SEALANT IN ACCORDANCE WITH SMACNA DUCT SEALING REQUIREMENTS SEAL CLASS C. DUCT TAPE WILL NOT BE ACCEPTABLE.
- PROVIDE TURNING VANES ON ALL SQUARE ELBOWS EXCEPT FOR GREASE DUCTS.
- MANUAL VOLUME DAMPERS SHALL BE OPPOSED BLADE TYPE WITH LOCKING QUADRANT AND INDICATING PLATE. VOLUME DAMPERS FOR ROUND DUCT UP TO 8" IN DIAMETER, SHALL BE SINGLE BLADE WITH TWO BEARINGS, HANDLE, WASHERS AND LOCKING NUT. HART & COOLY SERIES 60.
- VOLUME DAMPERS FOR DUCTWORK CONCEALED IN WALLS, CYROBOARD CEILINGS ETC. SHALL BE COMPLETE WITH CONNECTING RODS, GEARS AND ALL NECESSARY ACCESSORIES TO ADJUST THE VOLUME DAMPER WITHOUT DISTURBING THE FINISHED SURFACE. YOUNG REGULATOR CO. SERIES 912 FOR STRAIGHT CONNECTION, SERIES 914 WITH MITER GEAR FOR OFFSET DAMPER POSITION.
- FURNISH AND INSTALL THE HOOD(S) EXHAUST DUCT SYSTEMS AND EQUIPMENT IN ACCORDANCE WITH THE 2009 COMMONWEALTH OF VIRGINIA MECHANICAL CODE ARTICLE "COMMERCIAL KITCHEN GREASE DUCTS AND EXHAUST EQUIPMENT" AND "COMMERCIAL KITCHEN HOODS" PER NFPA 96 "STANDARD FOR VENTILATION CONTROL AND FIRE PROTECTION OF COMMERCIAL COOKING OPERATIONS" AND AS INDICATED ON THE DRAWINGS.
- KITCHEN EXHAUST DUCT SHALL BE MINIMUM 16 GA WELDED STEEL CONSTRUCTION, PORTIONS OF KITCHEN EXHAUST DUCT EXPOSED TO VIEW SHALL BE MINIMUM 18 GA WELDED STAINLESS STEEL CONSTRUCTION WITH NO VISIBLE STEEL IMPERFECTIONS.
- ALL EXHAUST AND MAKE UP AIR DUCTWORK LOCATED INDOORS SERVING KITCHEN EXHAUST HOODS SHALL BE WRAPPED WITH FIRE INSULATION SO AS TO RESULT IN A ZERO CLEARANCE TO COMBUSTIBLES SYSTEMS. DUCTS SHALL BE WRAPPED WITH FIREWRAP DUCT INSULATION MANUFACTURED BY 3M. INSTALL IN ACCORDANCE WITH MANUFACTURERS' WRITTEN RECOMMENDATIONS. PROVIDE RATED ACCESS DOORS WHERE CLEANOUTS ARE REQUIRED ON THE DUCT BY 2009 COMMONWEALTH OF VIRGINIA MECHANICAL CODE.
- RUN DUCTS AS HIGH AS POSSIBLE TIGHT TO THE UNDERSIDE OF STRUCTURE ABOVE.
- LOUVERS: RAINPROOF CONSTRUCTION, EXTRUDED ALUMINUM STATIONARY LOUVER WITH 12 GA. BLADES MOUNTED AT 45 DEGREES, STAINLESS STEEL FASTENERS AND 1/2" SQUARE ALUMINUM BRD SCREEN MOUNTED ON THE INSIDE. ANODIZED BRONZE FINISH OR ANODIZED CLEAR ALUMINUM FINISH AS SELECTED BY THE ARCHITECT. AIRLINE PRODUCTS CO. SERIES XB, THICKNESS AS REQUIRED BY THE WALL CONSTRUCTION.
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