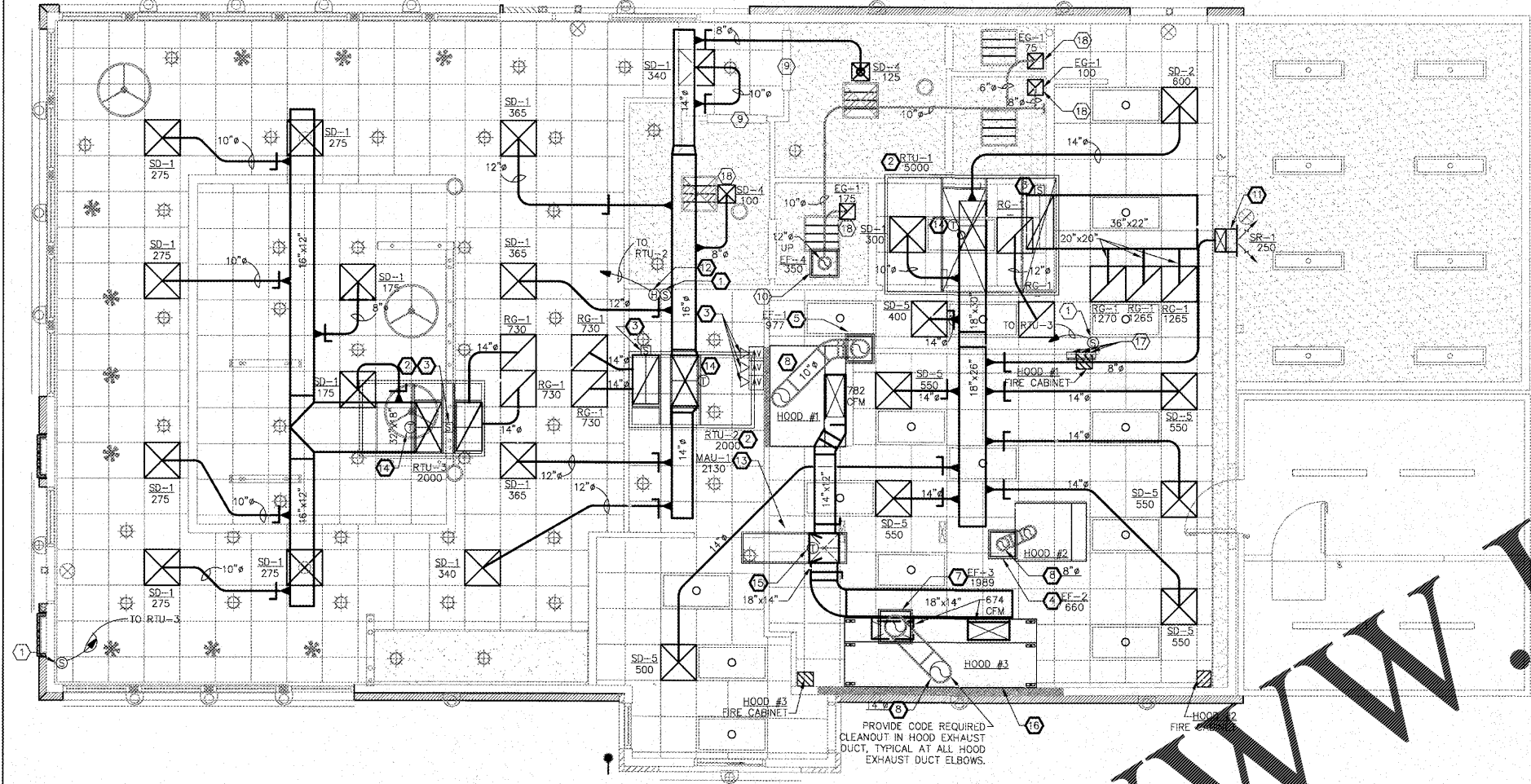


KEYED NOTES

NTS 2

HVAC GENERAL NOTES

NTS 3

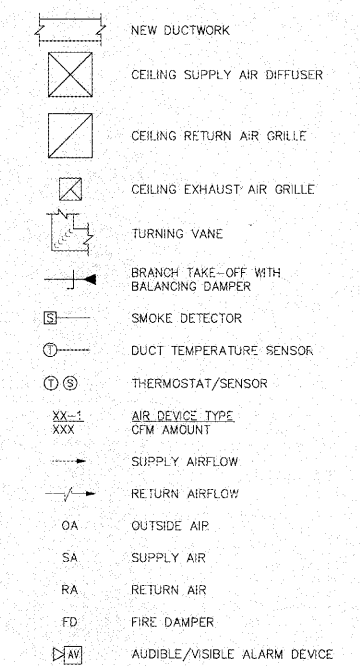


- 1 CONTRACTOR SHALL INSTALL OWNER PROVIDED REMOTE SENSOR AT 5 FT. ABOVE FINISHED FLOOR AS SHOWN ON PLAN. COORDINATE EXACT LOCATION WITH ELECTRICAL LOCATIONS. SENSOR TO BE WIRED TO OWNER PROVIDED THERMOSTAT IN BUILDING CONTROL PANEL. SENSOR SHALL BE FULLY COMPATIBLE WITH THERMOSTAT AND HVAC UNIT USED FOR PROJECT. FIELD COORDINATE.
- 2 RTU-1, 2, & 3 INSTALL THREE SINGLE PACKAGE ROOF TOP UNITS. SEE SHEET M2 FOR MORE INFORMATION. UNITS FURNISHED BY OWNER, INSTALLED BY E.C.
- 3 PROVIDE AND INSTALL SMOKE DETECTOR IN RETURN AIR DUCT TO DE-ENERGIZE RTU SUPPLY AIR FAN IF ACTIVATED. DETECTOR TO BE WIRED TO CPI PANEL. PROVIDE, INSTALL AND WIRE VISUAL/AUDIBLE ALARM FOR DUCT SMOKE DETECTOR WITH MANUAL RESET. COORDINATE EXACT LOCATION WITH CONSTRUCTION MANAGER. MANUAL EMERGENCY SHUTDOWN SWITCH-PREWIRED IN CPI PANEL. INSTALL ONE VISUAL/AUDIBLE/TEST STATION ALARM PER RTU. SHUT-OUT SMOKE DETECTOR TEST SWITCH IN MANAGER'S OFFICE.
- 4 EF-2 BROILER EXHAUST FAN - CAPTIVE AIRE NCA8FA HOOD SUPPLIER SHALL FURNISH AND HVAC CONTRACTOR SHALL INSTALL WHERE SHOWN ON PLANS A ROOF MOUNTED BELT DRIVE EXHAUST FAN. UNIT SHALL HAVE A CAPACITY OF 660 CFM @ 0.75" E.S.P. WITH A 1/2 HP MOTOR, 208V, 3 PH., 60 HZ. UNIT SHALL INCLUDE A PREFABRICATED SOUND ATTENUATING ROOF CURB AND BE FURNISHED WITH SPEED CONTROL. SEE FOOD SERVICE DRAWINGS QFV01, QFV02.
- 5 EF-1 BLODGETT OVEN EXHAUST FAN - CAPTIVE AIRE HOOD SUPPLIER SHALL FURNISH AND HVAC CONTRACTOR SHALL INSTALL WHERE SHOWN ON PLANS A ROOF MOUNTED BELT DRIVE EXHAUST FAN. UNIT SHALL HAVE A CAPACITY OF 977 CFM @ 0.75" E.S.P. WITH A 1/2 HP MOTOR, 208V, 3 PH., 60 HZ. UNIT SHALL INCLUDE A PREFABRICATED SOUND ATTENUATING ROOF CURB AND BE FURNISHED WITH SPEED CONTROL. SEE FOOD SERVICE DRAWINGS QFV01, QFV02.
- 6 EF-3 MIDDLE FRY EXHAUST FAN - CAPTIVE AIRE HOOD SUPPLIER SHALL FURNISH AND HVAC CONTRACTOR SHALL INSTALL WHERE SHOWN ON PLANS A ROOF MOUNTED BELT DRIVE EXHAUST FAN. UNIT SHALL HAVE A CAPACITY OF 1989 CFM @ 0.80" E.S.P. WITH A 1/2 HP MOTOR, 208V, 3 PH., 60 HZ. UNIT SHALL INCLUDE A PREFABRICATED SOUND ATTENUATING ROOF CURB AND BE FURNISHED WITH SPEED CONTROL. SEE FOOD SERVICE DRAWINGS QFV01, QFV02.
- 7 PROVIDE AND INSTALL SELKIRK METALBESTOS FACTORY-BUILT GREASE DUCT. DUCT SHALL MEET NFPA98. THE DOUBLE WALL DUCTING SHALL HAVE AN OUTER JACKET OF ALUMINUM STEEL .025" THICK IN 5 INCH THROUGH 24" DIAMETERS AND .034" THICK FOR LARGER DIAMETERS. THE INNER LINER SHALL BE TYPE 304 STAINLESS STEEL WITH A NOMINAL THICKNESS OF .035" FOR ALL SIZES. FIBER INSULATED EXHAUST SYSTEM (MODEL IPS) SHALL HAVE FIBER INSULATION BETWEEN THE WALLS OF 1 INCH THICK.
- 8 GENERAL CONTRACTOR TO UNDERCUT DOOR 3/4" FOR TRANSFER AIR.
- 9 EF-4 TOILET EXHAUST - CAPTIVE AIRE DD7FA ROOF MOUNTED BELT DRIVE EXHAUST FAN COMPLETE WITH INTEGRAL BACK DRAFT DAMPER. UNIT SHALL HAVE A CAPACITY OF 350 CFM @ 0.35" E.S.P. WITH A 1/4 HP MOTOR, 115V, 1 Ph., 60 HZ. UNIT SHALL INCLUDE A PREFABRICATED SOUND ATTENUATING ROOF CURB & AUTOMATIC BACKDRAFT DAMPER. FAN & HOUSING SHALL BE OF ALUMINUM CONSTRUCTION W/ A NON-OVERLOADING FAN WHEEL. UNIT SHALL BE BELT DRIVE W/ DRIVES SIZED FOR 125% OF RATED CAPACITY. HVAC CONTRACTOR SHALL SEE HOOD DRAWINGS FOR SIZE OF SUPPLY AIR INTAKE CONNECTIONS. FABRICATE AND INSTALL DUCTWORK FROM DUCT SHOWN. INSTALL HOOD DUCT ACCORDING TO ASHRAE LOW PRESSURE STANDARDS. VERIFY DUCT SIZE AND COST PRIOR TO BID. PROVIDE AN OUTDOOR AIR INTAKE EXTENSION TO MAINTAIN A 10'-0" CLEARANCE TO EXHAUST FAN DISCHARGES. EXTENSION SHALL MATCH THE MAKE-UP AIR UNIT. SEE FOOD SERVICE DRAWINGS QFV01, QFV02.
- 10 CONTRACTOR SHALL INSTALL CPI PROVIDED DUCT TEMPERATURE SENSORS IN SUPPLY DUCT FOR RTU'S. SENSORS TO BE MOUNTED IN RETURN AIR DUCT AND TIED TO CPI BUILDING CONTROL PANEL. FIELD COORDINATE EXACT REQUIREMENTS BEFORE STARTING WORK.
- 11 MOUNT CPI PROVIDED TEMPERATURE SENSOR IN THE MAU DUCTWORK AS SHOWN. WIRE SENSOR TO CPI PANEL ACCORDING TO THE CPI DRAWINGS PROVIDED WITH THE PANEL AT THE TIME OF DELIVERY. FIELD COORDINATE.
- 12 MECHANICAL/GENERAL CONTRACTORS SHALL PROVIDE AND INSTALL STAINLESS STEEL BEHIND ALL HOODS. STAINLESS STEEL SHALL EXTEND 18" BEYOND HOODS AND SHALL BE FROM FLOOR TO 18" ABOVE EACH HOOD.
- 13 RECESSED MANUAL PULL STATION FOR FIRE SUPPRESSION SYSTEM SHALL BE PROVIDED BY HOOD MANUFACTURER AND INSTALLED BY LOCAL FIRE SUPPRESSION DISTRIBUTOR. PULL STATION SHALL BE INSTALLED AT 48" A.F.F. BETWEEN 10 FEET AND 20 FEET AWAY FROM THE COOKING EQUIPMENT WITHIN THE PATH OF EGRESS. M.C. AND FIRE SYSTEM DISTRIBUTOR SHALL COORDINATE TO ENSURE WORK HAS BEEN COMPLETED.
- 14 M.C. SHALL PROVIDE OBD (OPPOSED BLADE DAMPER) IN THE FACE OF THE DIFFUSER/GRILLE INSTALLED WITHIN THE SHEET ROCK CEILING.

- 1. ALL RECTANGULAR OUTSIDE AIR, RETURN AIR, RELIEF AIR AND SUPPLY AIR DUCTWORK SHALL BE EXTERNALLY INSULATED WITH 1.5" THICK, 2.75 LBS. DENSITY FOIL FACED FIBERGLASS INSULATION. INSTALLED "R" VALUE = 6.0. DUCT DIMENSIONS SHOWN ARE INSIDE NET DIMENSIONS, IN GENERAL, HOLD DUCT TIGHT TO UNDERSIDE OF STRUCTURE UNLESS OTHERWISE NOTED OR REQUIRED BY FIELD CONDITIONS.
- 2. CONICAL BELLMOUTH FITTINGS WITH MANUAL BALANCING DAMPER TO BE USED FOR ALL ROUND BRANCH TAPS ABOVE ACCESSIBLE LAY-IN CEILING. CONICAL BELLMOUTH FITTINGS WITHOUT MANUAL BALANCING DAMPER TO BE USED FOR ALL ROUND BRANCH TAPS ABOVE INACCESSIBLE DRYWALL CEILING WITH BALANCING REQUIRED WITHIN 10 FT. OF DIFFUSER WITH PLASTER.
- 3. ROUND RIGID SUPPLY, RETURN, OUTSIDE AIR AND RELIEF AIR DUCTS SHALL BE EXTERNALLY INSULATED WITH 1.5" THICK, 2.75 LBS. INSTALLED "R" VALUE = 6.0. DENSITY FOIL FACED FIBERGLASS INSULATION.
- 4. FLEX CONNECTS TO SUPPLY DIFFUSERS ARE INSULATED FLEX WITH A MAXIMUM LENGTH OF 10 FT. ALL RETURN AIR DUCTS SHALL ALL BE RIGID. NO FLEX IS ALLOWED.
- 5. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL TRADES, LANDLORD REQUIREMENTS, CEILING HANG AND EXISTING STRUCTURAL CONDITIONS PRIOR TO FABRICATION OF ANY DUCTWORK OR ORDERING OF EQUIPMENT.
- 6. THE HVAC CONTRACTOR IS RESPONSIBLE FOR COORDINATING BOX-OUT LOCATIONS FOR ALL DRYWALL MOUNTED AIR DEVICES WITH GENERAL CONTRACTOR AND CEILING FRAMING.
- 7. MECHANICAL CONTRACTOR TO PROVIDE TENANT WITH AS-BUILT DRAWINGS, ALL EQUIPMENT SHOP DRAWINGS, INFORMATION ON THERMOSTATS, CONTROL WIRING DIAGRAMS AND OTHER PERTINENT INFORMATION AT COMPLETION OF PROJECT.
- 8. MECHANICAL CONTRACTOR IS TO PROVIDE AND INSTALL FIRE-RATED PIPE SLEEVES AND SEALS ON ALL EXISTING OR NEW PIPING THAT PENETRATES A FIRE-RATED PARTITION.
- 9. PERFORM ALL WORK IN ACCORDANCE WITH SPECIFICATIONS DIVISION 15.
- 10. INSTALL VOLUME DAMPERS ON BRANCH SUPPLY DUCTS AS NECESSARY TO BALANCE DIFFUSER AIRFLOW WITHIN 10 % OF VALUES INDICATED (15 % FOR DIFFUSERS LESS THAN 150 CFM).
- 11. BUILDING CONTROL PANEL. PURCHASED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR. THERMOSTAT WIRING AND CONTROL BY HVAC CONTRACTOR.

MECHANICAL LEGEND

NTS 4



* ALL SYMBOLS MAY NOT BE USED

HVAC PLAN

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