

GENERAL SHEET NOTE

NOTE ON BASIS OF DESIGN

PRODUCTS OF OTHER MANUFACTURERS ARE ACCEPTABLE IF THEY MEET THE OPERATIONAL REQUIREMENTS INDICATED. ANY ADJUSTMENTS TO DUCTING, PIPING, WIRING OR CONFIGURATION DUE TO THE SELECTION OF A MANUFACTURER OTHER THAN THAT LISTED AS THE BASIS OF DESIGN WILL BE ACCOMPLISHED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO PORTLAND PUBLIC SCHOOLS.

AIR HANDLING UNIT SCHEDULE

Table with columns: UNIT NO, SERVES, LOCATION, SA FAN, EA FAN, ENERGY RECOVERY (HEATING), Dx COOLING COIL, HOT WATER COIL, ELECTRICAL, INSTALLED WEIGHT LBS, BASIS OF DESIGN, NOTES. Includes units AHU-1 through AHU-8.

NOTES: 1. MAXIMUM FILTER FACE VELOCITY = 625 FPM. 2. MAXIMUM COIL FACE VELOCITY = 600 FPM. 3. VFD FOR SUPPLY FAN. 4. VFD FOR RETURN FAN. 5. PROVIDE INTEGRAL OUTSIDE AIR BYPASS DAMPER AT ENERGY RECOVERY WHEEL. 6. PROVIDE EXHAUST AIR BYPASS DAMPER AND RETURN AIR DAMPER AT ENERGY RECOVERY WHEEL. 7. PROVIDE INTEGRAL AIRFLOW MEASURING STATIONS FOR THE OA&EA AIRFLOWS. 8. PROVIDE INTEGRAL ENERGY WHEEL SPEED CONTROLLER.

PUMP SCHEDULE

Table with columns: UNIT NO, SERVES, TYPE, GPM, TOTAL HEAD, PUMP EFF(%), MOTOR DATA, SUCTION/DISCHARGE (IN), BASIS OF DESIGN, NOTES. Includes pumps P-1 through P-4.

NOTES:

AIR COOLED CONDENSING UNIT SCHEDULE

Table with columns: UNIT NO, SERVES, CAPACITY FULL LOAD MBH, REFRIG TYPE, REFRIG CHARGE LBS, EER FULL LOAD, DESIGN TEMP SATURATED SUCTION TEMP °F, COND AMBIENT °F, CONDENSER FAN(S), COMPRESSOR(S), ELECTRICAL, BASIS OF DESIGN, NOTES. Includes units ACCU-1 and ACCU-2.

NOTES: 1. PROVIDE WITH DUAL COMPRESSORS. 2. PROVIDE LOW AMBIENT CONTROL FOR OPERATION DOWN TO 0°F.

LOUVER SCHEDULE

Table with columns: UNIT NO, SERVES, TYPE, CFM, DIMENSIONS (INCHES), MIN FREE AREA SQUARE FT, BASIS OF DESIGN, NOTES. Includes louvers L-1 through L-7.

NOTES:

FAN SCHEDULE

Table with columns: UNIT NO, SERVES, CFM, ESP IN WC, DRIVE TYPE, FAN TYPE, FAN RPM, INLET SONES, MOTOR POWER, VOLTS/PHASE, BASIS OF DESIGN, ACCESSORIES. Includes fans EF-1 through EF-9.

ACCESSORIES: A. 12" INSULATED ROOF CURB B. GRAVITY BACKDRAFT DAMPER C. MOTORIZED DAMPER D. GALVANIZED BIRD SCREEN E. MFR FAN MOUNTED DISCONNECT SWITCH F. VENTED CURB EXTENSION, HINGED CURB CAP, AND GREASE TRAP W/ DRAIN CONNECTION G. BRICK VENT WITH BACKDRAFT DAMPER H. WALL COLLAR, WIRE MESH MOTOR GUARD AND SHUTTER DAMPER I. SPECIALTY COATING J. FAN SPEED CONTROLLER K. SOUND ATTENUATING ENCLOSURE L. SPRING VIBRATION ISOLATORS M. NEOPRENE VIBRATION ISOLATORS N. TIME DELAY SWITCH

RANGE HOOD SCHEDULE

Table with columns: UNIT NO, SERVES, CFM, SP IN WC, VOLTS/PHASE, BASIS OF DESIGN, NOTES. Includes range hoods KH-1 and KH-2.

NOTES: 1. PROVIDE FACTORY MOUNTED FIRE DAMPER TO CLOSE EXHAUST COLLAR WHEN EXHAUST FAN IS OFF TO PREVENT COLD AIR ENTRAINMENT.

GRAVITY VENTILATOR SCHEDULE

Table with columns: UNIT NO, SERVES, CFM, MAX PRESSURE DROP IN WC, THROAT SIZE, CURB CAP SIZE, BASIS OF DESIGN, NOTES. Includes ventilators GV-1 through GV-8.

NOTES:

HOT WATER CABINET UNIT HEATER SCHEDULE

Table with columns: UNIT NO, LOCATION, CFM, HEATING MBH, GPM, WATER TEMP °F, FAN DATA, NOTES. Includes units CUH-1 through CUH-8.

NOTES: 1. FLOOR-MOUNTED, VERTICAL SLOPED TOP CABINET 2. RECESSED VERTICAL 3. RECESSED HORIZONTAL

AIR CONDITIONING UNIT SCHEDULE

Table with columns: UNIT NO, LOCATION, CFM, MBH MAX/MIN, ELECTRICAL DATA, BASIS OF DESIGN, NOTES. Includes units AC-1/CU-1 and AC-2/CU-2.

NOTES:

FINTUBE RADIATION SCHEDULE

Table with columns: UNIT NO, TUBE SIZE, ELEMENT, ENCLOSEURE, CAPACITY BTU/H/F, AVERAGE WATER TEMP (°F), BASIS OF DESIGN, NOTES. Includes unit FR-1.

NOTES: 1. PROVIDE ALTERNATE ELEMENT CRADLE TO ALLOW THE RETURN PIPE TO RUN BELOW THE ELEMENT.

HOT WATER UNIT HEATER SCHEDULE

Table with columns: UNIT NO, LOCATION, HEATING MBH, WATER TEMP °F, GPM, MAX PRESSURE DROP IN WC, ELECTRICAL DATA, BASIS OF DESIGN, NOTES. Includes units UH-1 through UH-6.

NOTES:

HUMIDIFIER SCHEDULE

Table with columns: UNIT NO, SERVES, ENTERING AIR TEMP °F, LB STEAM/HR, KW, VOLTS/PHASE, BASIS OF DESIGN, NOTES. Includes unit H-1.

NOTES:

INDIRECT GAS FIRED MAKE-UP AIR UNIT SCHEDULE

Table with columns: UNIT NO, CFM, ESP IN WC, EAT, LAT, INPUT MBH, ELECTRICAL, BASIS OF DESIGN, NOTES. Includes unit MUA-1.

NOTES: 1. INDIRECT FIRED, URAL GAS AIR HANDLING UNIT. 2. UNIT ACCESSORIES: 2" DISPOSABLE, MERV 6 RATED FILTERS; MOTORIZED INLET DAMPER. 3. PROVIDE INTEGRAL STARTER AND DISCONNECT SWITCH

EXPANSION TANK SCHEDULE

Table with columns: UNIT NO, LOCATION, SERVES, ACCEPTANCE VOLUME, DIMENSIONS, BASIS OF DESIGN, NOTES. Includes expansion tanks EXP-1 and EXP-2.

NOTES:

AIR SEPARATOR SCHEDULE

Table with columns: UNIT NO, LOCATION, SERVES, TYPE, CAPACITY (GPM), PRESSURE DROP (FT), STRAINER FREE AREA (SQ IN), BASIS OF DESIGN, NOTES. Includes units AS-1 and AS-2.

NOTES:

HOT WATER BOILER SCHEDULE

Table with columns: UNIT NO, FUEL, INPUT MBH, MINIMUM EFFICIENCY, FLUE SIZE, VOLTS/PHASE, BASIS OF DESIGN, NOTES. Includes boilers B-1 and B-2.

NOTES: 1. PROVIDE THROUGH-ROOF VENT & COMBUSTION AIR INTAKE ASSEMBLIES. 2. PROVIDE ACID NEUTRALIZATION KIT FOR CONDENSATE DRAIN

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