

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE (PROVIDED BY LANDLORD)

| CONDENSER DATA | | | | | | | | | | FAN COIL DATA | | | | | | | | | | REMARKS | |
|----------------|-------------------|-------------|------|----------------|----------------|-----------|------|------------------------|--------------------------|---------------|-------------------|-----------|-----------------|--------|--------------|-------------------------------------|---------------------------|------|------------|---------|-----|
| MARK | MANUF./MODEL | AREA SERVED | TONS | MIN. CKT. AMP. | MAX. CKT. AMP. | VOLT./PH. | SEER | COOLING CAPACITY (MBH) | HEATING CAPACITY (BTU/H) | MARK | MANUF./MODEL | TOTAL CFM | OUTDOOR AIR CFM | FAN HP | ESP (IN. WG) | AUX. ELECTRIC HEAT CAPACITY (BTU/H) | ELECTRICAL (VOLTS/PH/WEA) | MOOR | | | |
| CU-1 | BRYANT / BHT4N080 | KITCHEN | 5.0 | 32.0 | 50 | 208/3 | 14.0 | 67,000 | 80,000 | FCU-1 | BRYANT / BHT4N080 | 2000 | 350 | 625 | 3/4 | 0.6 | 62,800 | 15 | 208/3 53.8 | 60 | ALL |
| CU-2 | BRYANT / BHT4N080 | DINING | 5.0 | 32.0 | 50 | 208/3 | 14.0 | 67,000 | 80,000 | FCU-2 | BRYANT / BHT4N080 | 2000 | 350 | 625 | 3/4 | 0.6 | 62,800 | 15 | 208/3 53.8 | 60 | ALL |
| CU-3 | BRYANT / BHT4N080 | RR/STR/CORR | 5.0 | 32.0 | 50 | 208/3 | 14.0 | 67,000 | 80,000 | FCU-3 | BRYANT / BHT4N080 | 2000 | 350 | 625 | 3/4 | 0.6 | 62,800 | 15 | 208/3 53.8 | 60 | ALL |

REMARKS:
 1. COOLING CAPACITIES ARE RATED AT 80° DB AND 67° WB AIR CONDITIONS AND 95° AMBIENT OUTDOOR CONDENSER AIR TEMPERATURE, WITH INDOOR DESIGN TEMPERATURE 75° DB/50% RH, AND NOMINAL AIR QUANTITY LISTED.
 2. PROVIDE MANUFACTURER CLEARANCES FOR UNITS.
 3. FAN COIL UNIT DISCONNECT SWITCHES FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
 4. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT WITH AUTOMATIC SWITCHOVER, INTERLOCKS WITH MOTORIZED DAMPER, AND LOCKING COVER.
 5. LANDLORD CONTRACTOR TO PROVIDE REFRIGERANT LINES, SOLENOID AND EXPANSION VALVES PER MANUFACTURER REQUIREMENTS.
 6. PROVIDE COIL CONDENSATE PIPING AS REQUIRED, ROUTE TO THE NEAREST AHU APPROVED RECEPTOR.
 7. PROVIDE ALL NECESSARY COMPONENTS FOR CODE COMPLIANCE AND A COMPLETE AND OPERATIONAL SYSTEM.
 8. PROVIDE AND INSTALL AUXILIARY DRAIN PAN UNDER COMPLETE FAN COIL UNIT, PROVIDE FLOAT SWITCH WIRED TO SHUT DOWN UNIT UPON ACTIVATION.

LOUVER SCHEDULE

| MARK | AREA | SERVICE | MANUFACTURER/MODEL NO. | SIZE (IN) W x H | FREE AREA (SQ FT) | CFM | REMARKS |
|------|-----------|---------|-------------------------|-----------------|-------------------|------|----------|
| LV1 | KITCHEN | INTAKE | EXISTING | 30X20 | - | 1250 | EXISTING |
| LV2 | RESTROOMS | EXHAUST | UNITED ENERTECH/CFL-D-4 | 18X18 | 0.72 | 450 | 1,2,3 |
| LV3 | MAU | INTAKE | UNITED ENERTECH/CFL-D-4 | 24X36 | 2.99 | 2300 | 1,2,3 |

REMARKS:
 1. PROVIDE WITH INSECT SCREEN.
 2. FINISH COLOR TO BE SELECTED BY ARCHITECT AFTER RECEIPT OF SUBMITTAL.
 3. LISTED MANUFACTURER IS USED AS A BASIS FOR DESIGN. ALTERNATE MANUFACTURERS SHALL MEET THE LISTED CAPACITIES AS A MINIMUM.

FAN SCHEDULE

| MARK | SERVICE | MANUFACTURE | MODEL | TYPE | CFM | E.S.P. *W.C. | MOTOR HP (WATTS) | VOLTS/ PHASE | WEIGHT | NOTES |
|------|---------|-------------|----------|--------|-----|--------------|------------------|--------------|--------|---------------|
| EF-1 | RR | GREENHECK | CSP-A700 | INLINE | 450 | 0.6 | 163 | 115/1 | | 1,2,3,4,5,6,8 |

REMARKS:
 1. WEATHER PROOF DISCONNECT SWITCH AND INTERNAL WIRING SHALL BE FACTORY INSTALLED.
 2. PROVIDE DISCONNECT SWITCH OR PLUG
 3. PROVIDE GRAVITY BACKDRAFT DAMPER.
 4. FURNISHED & INSTALLED BY MECHANICAL CONTRACTOR.
 5. PROVIDE FANS SPEED CONTROLLER & HANGING SUPPORT WITH VIBRATION ISOLATION AND PLUG IN/FACTORY DISCONNECT.
 6. INTERLOCK EXHAUST FAN WITH RESTROOM LIGHTS.
 7. FAN TO RUN CONTINUOUSLY DURING OPERATING HOURS.
 8. OR EQUAL.

VENTILATION SCHEDULE (BASED ON 2015 INTERNATIONAL MECHANICAL CODE)

| SPACE | OCCUPANCY CLASSIFICATION | FLOOR AREA SQ. FT. | OCCUPANT DENSITY PEOPLE/ 1000 SQ. FT. | MAXIMUM OCCUPANCY | PEOPLE OUTDOOR AIR RATE (CFM/PERSON) | AREA OUTDOOR AIR RATE (CFM/SQ. FT.) | REQUIRED OUTDOOR AIRFLOW Vbz (CFM) | REQUIRED EXHAUST AIR RATE (CFM) | REQUIRED EXHAUST AIR RATE (CFM/FT2) | EXHAUST AIR RATE (CFM) | MECHANICAL UNIT |
|----------------------------|--------------------------|--------------------|---------------------------------------|-------------------|--------------------------------------|-------------------------------------|------------------------------------|---------------------------------|-------------------------------------|------------------------|-----------------|
| DINING | DINING ROOM | 1971 | 70 | 115* | 7.5 | 0.18 | 1217.3 | - | - | - | AHU-2&3 |
| OFFICE | OFFICE | 86 | 5 | 1* | 5 | 0.06 | 5.16 | - | - | - | AHU-3 |
| CORRIDOR | CORRIDOR | 240 | - | - | - | 0.06 | 14.4 | - | - | - | AHU-3 |
| KITCHEN | KITCHEN | 695 | - | - | - | - | - | - | 0.7/SQFT | 486.5 | AHU-1 |
| MENS RESTROOM | PUBLIC RESTROOM | 138 | - | - | - | - | - | 70/FIXTURE | - | 300 | AHU-3 |
| WOMENS RESTROOM | PUBLIC RESTROOM | 123 | - | - | - | - | - | 70/FIXTURE | - | 150 | AHU-3 |
| - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL OUTDOOR AIR REQUIRED | | | | | | | 1236.8 | TOTAL EXHAUST REQUIRED | | 936.5 | |
| OUTDOOR AIR PROVIDED | | | | | | | 1600 | EXHAUST PROVIDED | | 4470 | |

*ACTUAL OCCUPANCY BASED ON SEATS.

CIRCULATION FAN SCHEDULE

| MARK | AREA SERVED | MANUFACTURER | MODEL | SIZE | | | VOLTAGE | | |
|--------|-------------|--------------|---------|------|-----------------|--------|--------------------|--------------|------|
| | | | | DIA | MAX SPEED (RPM) | WEIGHT | SOUND AT MAX SPEED | VOLTS/ PHASE | AMPS |
| HVLS-1 | DINING | BIG ASS FANS | ESSENCE | 8" | 158 | 75 LB | 57 | 208/1 | 10 |

ACCESSORIES:
 1. PROVIDE WITH FACTORY CONTROL CABLING FOR WALL MOUNTED DIGITAL CONTROLLERS.
 2. FAN TO BE CAPABLE OF VARIABLE SPEED, FORWARD, AND REVERSE.
 3. PROVIDE CONTACTS FOR FIRE ALARM CONNECTION.
 4. 50,000 HOUR MOTOR WARRANTY.
 5. PROVIDE MOUNTING EXTENSION AS REQUIRED.
 6. ON BOARD AIR BRAIN WITH VOLTAGE SENSING.
 7. FAN TO BE IP65 RATED.
 8. PROVIDE FACTORY MOUNTING KIT.
 9. TO BE INTERLOCKED WITH FIRE SYSTEM. CIRCULATION FANS TO SHUT DOWN UPON FIRE SYSTEM ACTIVATION.

NOTES:
 1. APPROVED EQUALS: MACROAIR

SEE CAPTIVEAIRE SUBMITTAL FOR MORE INFO ON KMAU, KEF, AND KITCHEN HOOD

AIR BALANCE SCHEDULE

| MARK | SUPPLY AIR | RETURN AIR | OUTSIDE AIR | EXHAUST AIR | PRESSURE |
|--------|------------|------------|-------------|-------------|----------|
| FCU-1 | 2000 | 1650 | 350 | --- | 350 |
| FCU-2 | 2000 | 1650 | 350 | --- | 350 |
| FCU-3 | 2000 | 1650 | 350 | --- | 350 |
| KMAU-1 | --- | --- | 2300 | --- | 2300 |
| EF-1 | --- | --- | --- | 450 | -450 |
| KEF-1 | --- | --- | --- | 2800 | -2800 |
| TOTAL | | | 1050 | 3250 | 100 |

GRILLES, REGISTERS, & DIFFUSERS SCHEDULE

| MARK | SERVICE | TYPE | MAKE | MODEL | MATERIAL | FACE SIZE | FINISH | MOUNTING | REMARKS |
|------|------------|---------|-------|----------------|----------|---------------|--------|----------|-------------|
| A | SUPPLY | CEILING | TITUS | TMSA | ALUMINUM | 24x24 | WHITE | LAY-IN | 1,2,3,4,5 |
| B | SUPPLY | CEILING | TITUS | TMSA | ALUMINUM | 12x12 | WHITE | LAY-IN | 1,2,3,4,5 |
| C | SUPPLY | LINEAR | TITUS | ML-39 (4 SLOT) | ALUMINUM | 3'-0"L | WHITE | SURFACE | 1,2,4,5,8,9 |
| D | RETURN/EXH | CEILING | TITUS | 50F | ALUMINUM | 24x24 | WHITE | LAY-IN | 2,4,5,6 |
| E | RETURN/EXH | CEILING | TITUS | 50F | ALUMINUM | 12x12 | WHITE | LAY-IN | 2,4,5,6 |
| F | SUPPLY | SURFACE | TITUS | 300FL | ALUMINUM | PER NECK SIZE | NOTE 7 | DUCT | 1,2,3,4,5,7 |
| G | TRANSFER | CEILING | TITUS | 50F | ALUMINUM | 24X12 | WHITE | LAY-IN | 2,5 |
| H | TRANSFER | SURFACE | TITUS | 50F | ALUMINUM | 30X12 | WHITE | WALL | 2,5 |

REMARKS:
 1. BRANCH DUCT SERVING DIFFUSER TO BE SAME SIZE AS DIFFUSER NECK UNLESS OTHERWISE NOTED.
 2. REFER TO REFLECTED CEILING PLAN FOR EXACT LOCATION.
 3. PROVIDE WITH 4-WAY THROW PATTERN UNLESS OTHERWISE NOTED ON PLAN.
 4. PROVIDE WITH OPPOSED BLADE DAMPER.
 5. REFER TO PLAN FOR NECK SIZES.
 6. PROVIDE INSULATED PLENUM BOX. INSIDE SURFACE OF PLENUM TO BE FLAT BLACK.
 7. ALL EXPOSED DUCT AND DIFFUSERS TO BE PRIMED AND PAINTED PER ARCH SPECIFICATIONS (VERIFY COLOR WITH ARCH).
 8. PROVIDE WITH ADJUSTABLE AIR PATTERN CONTROLLER AND MP-39-SP INSULATED SHORT PATTERN SUPPLY PLENUM.
 9. PROVIDE CABLE OPERATED VOLUME DAMPER ADJUSTABLE FROM FACE OF GRILLE, YOUNG MODEL 800AHR OR EQUAL.

UNIT TYPE
 NECK SIZE (INCHES)
 TOTAL AIR QUANTITY (EACH)
 A-B
 250 CFM

MECHANICAL LEGEND

| SYMBOL | ABBR. | DESCRIPTION |
|--------|-------|---------------------------------------|
| | CD | CEILING DIFFUSER - SUPPLY |
| | CD | CEILING DIFFUSER BELOW DUCT - SUPPLY |
| | SAD | RISER - SUPPLY AIR DUCT |
| | SAD | DROP - SUPPLY AIR DUCT |
| | CR | CEILING REGISTER - RETURN |
| | CR | CEILING REGISTER BELOW DUCT - RETURN |
| | RAD | RISER - RETURN AIR DUCT |
| | RAD | DROP - RETURN AIR DUCT |
| | CE | CEILING REGISTER - EXHAUST |
| | CE | CEILING REGISTER BELOW DUCT - EXHAUST |
| | EAD | RISER - EXHAUST AIR DUCT |
| | (L) | LINED DUCTWORK |
| | VD | MANUAL VOLUME DAMPER |
| | FC | FLEXIBLE CONNECTION |
| | | NEW DUCT |
| | | AIR DEVICE DESIGNATION |
| | TS | PROGRAMMABLE THERMOSTAT |
| | SENS | REMOTE TEMPERATURE SENSOR |
| | SD | SMOKE DETECTOR |
| | POC | POINT OF CONNECTION |
| | CFM | CUBIC FEET PER MINUTE |
| | S/A | SUPPLY AIR |
| | O/A | OUTSIDE AIR |
| | E/A | EXHAUST AIR |
| | S.P. | STATIC PRESSURE |
| | FOH | FRONT OF HOUSE |
| | BOH | BACK OF HOUSE |

- NOTE: FOR THE PURPOSE OF CLEARNESS AND LEGIBILITY, THE DRAWINGS ARE ESSENTIALLY GRAPHIC AND ALL HEIGHTS, SIZES, AND LOCATIONS OF EQUIPMENT ARE DRAWN TO SCALE WHEREVER POSSIBLE. THE CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL OF THE CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION PRIOR TO ORDERING, FABRICATING OR INSTALLING ANY MATERIALS.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE COMPLETE INFORMATION AND COOPERATE WITH THE OTHER CONTRACTORS AND TRADES AS REQUIRED FOR THE COMPLETION AND COORDINATION OF THE COMPLETE PROJECT.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADMINISTERING ALL WARRANTIES ON EQUIPMENT WHICH THEY FURNISH AND INSTALL.
- PROVIDE WRITTEN WARRANTY TO REPLACE ALL FAULTY MATERIALS AND/OR LABOR AND NO COST TO TENANT, FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE. PROVIDE 5 YEAR COMPRESSOR WARRANTY FOR AC UNITS. WARRANTIES SHALL BEGIN ON THE DATE OF SUBSTANTIAL COMPLETION.
- ALL OUTDOOR AIR INTAKE BY MECHANICAL EQUIPMENT SHALL HAVE A MINIMUM 10'-0" HORIZONTAL CLEARANCE FROM THE DISCHARGE OF ANY EXHAUST FAN, RTU GAS EXHAUST OR PLUMBING VENT.
- PROVIDE VIBRATION ISOLATION DEVICES AND FLEXIBLE DUCT/ PIPING CONNECTIONS TO ALL MOVING MACHINERY NOT INTERNALLY ISOLATED.
- ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCT AND DIFFUSER LOCATIONS WITH SPRINKLER PIPING, SPRINKLER HEADS AND LIGHT FIXTURES AS REQUIRED FOR A COMPLETE INSTALLATION.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES ALL REQUIRED OPENINGS AND PENETRATIONS. ALL REQUIRED OPENINGS IN FOUNDATIONS, FLOORS, WALLS AND ROOF SHALL BE CONSTRUCTED INTO THE STRUCTURE WITH THE USE OF SLEEVES, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM.
- ALL ITEMS PROJECTING THROUGH THE ROOF SHALL BE FLASHED THROUGH CURBS OR PIPE SEALS A MINIMUM OF 12" ABOVE THE ROOF. THE PIPE CURBS AND NO COST TO TENANT. TO BE INSTALLED BY THE ROOFING CONTRACTOR. ENSURE THAT AMPLE BOOT OPENINGS ARE PROVIDED TO ACCOMMODATE ANY ELECTRICAL CONDUIT PENETRATIONS REQUIRED FOR POWER.
- COORDINATE THE INSTALLATION AND FINISH OF ALL SUPPLY AND RETURN AIR DEVICES. AIR DEVICES LOCATED IN DINING AREAS SHALL BE PAINTED PER THE ARCHITECTURAL DRAWINGS FINISH SCHEDULE.
- ~~THERMOSTATS AND REMOTE SENSORS SHALL BE LOCATED AT A MINIMUM OF 5' FROM WALL MOUNTED WORK AND HEAT PRODUCING EQUIPMENT. EXACT LOCATIONS SHALL BE DETERMINED TO AVOID INTERFERENCE WITH WALL MOUNTED WORK AND HEAT PRODUCING EQUIPMENT.~~
- THERMOSTATS SHALL BE FCU MANUFACTURER AVAILABLE 24/7 AUTOMATIC CHANGEOVER TYPE TO SEQUENCE HEATING AND COOLING. SET POINT RANGE SHALL BE 10° BETWEEN FULL HEATING AND FULL COOLING. ADJUSTABLE TEMPERATURE DIFFERENTIAL SHALL BE 1-1/2°F. THERMOSTAT CONTROL RANGE SHALL BE 55°F TO 85°F. CONTROLS SHALL HAVE CAPABILITY OF TERMINATING HEATING AT NO HIGHER THAN 70°F AND COOLING AT NO LOWER THAN 75°F.
- FAN COIL UNITS SHALL BE SET TO RUN IN "FAN CONTINUOUS" MODE DURING OCCUPIED HOURS. DURING NIGHT SET-BACK HOURS, THE UNITS SHALL RUN IN "FAN AUTO" MODE. CONTRACTOR SHALL COORDINATE NECESSARY CONTROL WIRING REQUIREMENTS WITH THE MANUFACTURER TO ACCOMPLISH THIS CONTROL SEQUENCE WITHOUT THE USE OF A MANUAL SWITCH ON THE SUB-BASE.
- MECHANICAL CONTRACTOR TO FURNISH AND INSTALL 4" HIGH BLACK OVER WHITE LAMINATE NAMEPLATE WITH 2" LETTERS VISIBLE ADJACENT TO DISCONNECT SWITCH FOR ROOFTOP UNITS AND ROOF MOUNTED FANS.
- LINE VOLTAGE WIRING, ALL CONDUIT DISCONNECT SWITCHES AND FINAL CONNECTION BY ELECTRICAL CONTRACTOR. LOW VOLTAGE CONDUIT AND WIRING AND FINAL CONNECTION BY MECHANICAL CONTRACTOR.
- ALL HVAC SUPPLY AND RETURN CONCEALED DUCTWORK TO BE EXTERNALLY WRAPPED WITH MINIMUM R-8.0, 2" INSULATION WITH VAPOR BARRIER PER THE INSULATION SHALL HAVE MAXIMUM RATINGS OF 25 FLAME SPREAD, 50 SMOKE DEVELOPED.
- SUPPLY, RETURN, RESTROOM EXHAUST, AND MAKEUP AIR DUCT CONSTRUCTION SHALL BE GALVANIZED STEEL. GAUGES, SWAY BRACING AND SUSPENSION SHALL CONFORM TO SMARMA STANDARDS. SEAL ALL SEAMS AND JOINTS AIR AND WATER TIGHT. FLEXIBLE ALUMINUM DUCTWORK OR FIBERGLASS DUCTBOARD IS NOT ALLOWED (UNO).
- ~~TYPE-1 GREASE EXHAUST DUCTS TO THE BUILDING SHALL BE 16 GA WELDED BLACK IRON, OR 18 GA THINNESS STEEL, EXTERNALLY WELDED WITH LIQUID TIGHT JOINTS, SEAMS, AND SMOOTH RADIUS ELBOWS AND TRANSITIONS.~~
- ~~PITCH ALL HORIZONTAL GREASE AND CONDENSATE DUCTWORK UNIFORMLY BACK TOWARDS THE HOOD AT 1/4" PER FOOT (NOT TO EXCEED 50'-0").~~
- ROOF CURBS FOR EXHAUST FANS AND THE MAKEUP AIR UNIT SHALL BE FACTORY FABRICATED OF FULL WELDED STEEL CONSTRUCTION WITH WOOD NAILER, AND FURNISHED WITH THE HOOD AND FAN PACKAGE. VERIFY REQUIREMENTS FOR THE ROOF CURBS WITH THE EQUIPMENT SUPPLIER. THE GENERAL CONTRACTOR SHALL FLASH ROOF CURBS AND SHIM DEAD LEVEL. COORDINATE EXACT SIZE AND LOCATION OF ROOF OPENINGS WITH THE STRUCTURAL FRAMING. CUTTING OF STRUCTURAL MEMBERS IS NOT PERMITTED.
- ~~ROOF CURBS FOR ROOFTOP UNITS SHALL BE FACTORY FABRICATED OF FULL WELDED STEEL CONSTRUCTION WITH WOOD NAILER, AND FURNISHED WITH THE RTU PACKAGE. VERIFY REQUIREMENTS FOR THE ROOF CURBS WITH THE EQUIPMENT SUPPLIER. THE GENERAL CONTRACTOR SHALL FLASH ROOF CURBS AND SHIM DEAD LEVEL. COORDINATE EXACT SIZE AND LOCATION OF ROOF OPENINGS WITH THE STRUCTURAL FRAMING. CUTTING OF STRUCTURAL MEMBERS IS NOT PERMITTED.~~
- THE WALL MOUNTED CANOPY TYPE KITCHEN EXHAUST HOODS SHALL BE INSTALLED AT 6'-8" AFF (UNO). COORDINATE THE INSTALLATION AND PLACEMENT OF THE EXHAUST HOODS IN THE FIELD.
- THE KITCHEN HOOD PACKAGE WILL BE PROVIDED WITH REMOTE CONTROL PACKAGE, MAU HOOD EXHAUST FAN SWITCHES, AND LIGHT SWITCHES.
- EXHAUST DUCT RISERS BETWEEN THE HOOD COLLARS AND EXHAUST FANS SHALL BE OF THE SAME SIZE AS THE RESPECTIVE HOOD COLLAR SIZE. UNO. REFER TO THE MANUFACTURER SHEETS IN THE KITCHEN EQUIPMENT DRAWING SET FOR THE HOOD COLLAR SIZES AS PROVIDED BY THE HOOD MANUFACTURER.
- REFER TO MANUFACTURER SHEETS FOR THE HOOD CONTROL WIRING DIAGRAM FOR OPERATION OF THE KITCHEN HOOD EQUIPMENT.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING THE AIR FILTERS AT THE FAN COIL UNITS WITH 2" THICK MERV 7 THROW AWAY TYPE AIR FILTERS AT THE COMPLETION OF CONSTRUCTION AND PRIOR TO AIR BALANCE AND STORE TURNOVER.
- A FULL MECHANICAL AIR TEST AND BALANCE REPORT SHALL BE PERFORMED BY AN INDEPENDENT CONTRACTOR.
- MECHANICAL CONTRACTOR SHALL BE ON SITE AND PRESENT AT THE DATE OF STORE TURNOVER.
- PER WHEN REQUIRED EACH SINGLE SYSTEM PROVIDING HEATING OR COOLING AIR IN EXCESS OF 2000 CUBIC FEET PER MINUTE SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF. AUTOMATIC SHUTOFF SHALL BE ACCOMPLISHED BY INTERRUPTING THE POWER SOURCE OF THE AIR MOVING EQUIPMENT DEVICES WHICH WILL DETECT PRODUCTS OF COMBUSTION OTHER THAN HEAT, AND WHICH COMPLY WITH THE I.B.C. SHALL BE LABELED BY AN APPROVED AGENCY FOR AIR DUCT INSTALLATION AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUCH DEVICES SHALL BE COMPATIBLE WITH THE OPERATING VELOCITIES, PRESSURES, TEMPERATURES AND HUMIDITIES OF THE SYSTEM WHERE FIRE DETECTION OR ALARM SYSTEMS ARE PROVIDED FOR THE BUILDING, SMOKE DETECTORS SHALL BE SUPERVISED BY SUCH SYSTEMS.

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Revisions:

| Mark | Date | By | Description |
|------|-----------|----|-------------------|
| | 2/26/2018 | | ISSUED FOR PERMIT |
| | 3/5/2018 | | BULLETIN #1 |

ALTO
 PIZZA KITCHEN + BAR

ALTO - DUVENECK SQUARE
 COVINGTON, KENTUCKY

PROJECT # 170928
 DATE ISSUED 01/23/2018

MECHANICAL SCHEDULES

M2.0

HOOD INFORMATION - Job#3305041

| HOOD NO. | TAG | MODEL | LENGTH | MAX. COOKING TEMP. | EXHAUST PLENUM | | | | | | | TOTAL SUPPLY CFM | HOOD CONSTRUCTION | HOOD CONFIG. | | |
|----------|-------|------------------------|--------|--------------------|----------------|-------|-------|--------|------|-----|------|------------------|-------------------|--------------|-------|-------|
| | | | | | RISER(S) | | | | | | | | | END TO END | ROW | |
| | | | | | TOTAL EXH. CFM | WIDTH | LENG. | HEIGHT | DIA. | CFM | VEL. | S.P. | | | | |
| 1 | KHD-1 | 7224 VHB-G-PSP-F-ND | 16' 0" | 700 Deg. | 2800 | | | 4" | 12" | 933 | 1188 | -0.132" | 2300 | 430 SS | ALONE | ALONE |
| | | | | | | | | 4" | 12" | 933 | 1188 | -0.132" | | 100% | | |
| | | | | | | | | 4" | 12" | 933 | 1188 | -0.132" | | | | |

PATENT NUMBERS
 AC-PSP (United States) - US Patent 7963830 B2
 AC-PSP Wall (Canada) - CA Patent 2820509
 AC-PSP Island (Canada) - CA Patent 2520330

HOOD INFORMATION

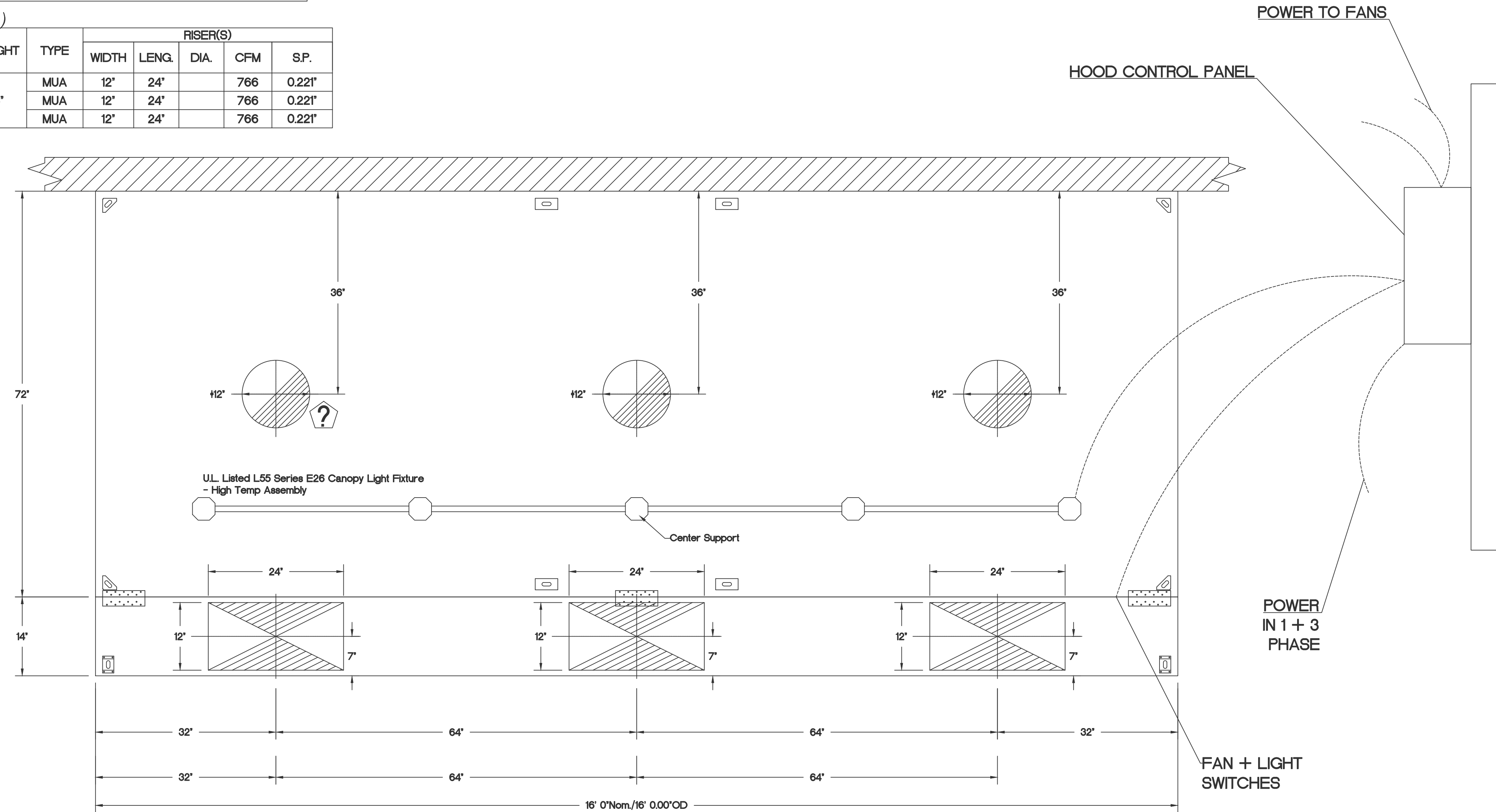
| HOOD NO. | TAG | FILTER(S) | | | | | LIGHT(S) | | | | UTILITY CABINET(S) | | | | FIRE SYSTEM PIPING | HOOD HANGING WGT | |
|----------|-------|-----------|------|--------|--------|------------------------|----------|----------------|------------|----------|--------------------|------|------|--------------------|--------------------|------------------|-------------------|
| | | TYPE | QTY. | HEIGHT | LENGTH | EFFICIENCY * 7 MICRONS | QTY. | TYPE | WIRE GUARD | LOCATION | SIZE | TYPE | SIZE | ELECTRICAL MODEL # | | | SWITCHES QUANTITY |
| 1 | KHD-1 | | | | | | 5 | L55 Series E26 | NO | | | | | | | NO | 651 LBS |

HOOD OPTIONS

| HOOD NO. | TAG | OPTION |
|----------|-------|---|
| 1 | KHD-1 | FIELD WRAPPER 22.00' High Front, Left, Right BACKSPLASH 80.00' High X 192.00' Long 430 SS Vertical |

PERFORATED SUPPLY PLENUM(S)

| HOOD NO. | TAG | POS. | LENGTH | WIDTH | HEIGHT | TYPE | RISER(S) | | | | |
|----------|-------|-------|--------|-------|--------|------|----------|-------|------|-----|--------|
| | | | | | | | WIDTH | LENG. | DIA. | CFM | S.P. |
| 1 | KHD-1 | Front | 192' | 14' | 6' | MUA | 12' | 24' | | 766 | 0.221' |
| | | | | | | MUA | 12' | 24' | | 766 | 0.221' |
| | | | | | | MUA | 12' | 24' | | 766 | 0.221' |

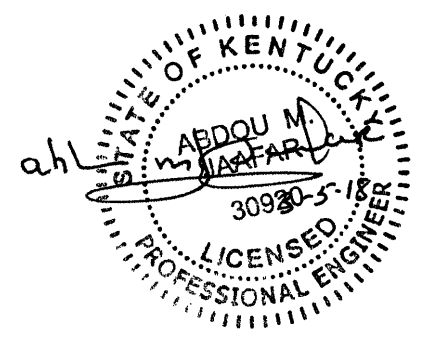


PLAN VIEW - Hood #1 (KHD-1)
 16' 0.00" LONG 7224VHB-G-PSP-F-ND
 NOTE: Additional hanging angles provided for hoods 12' and longer.



| | |
|--------------------------------|--------------------|
| JOB Alto's (Northern Kentucky) | |
| LOCATION COVINGTON, KY, 41011 | |
| DATE 2/13/2018 | JOB # 3305041 |
| DWG # 1 | DRAWN BY |
| REV. | SCALE 3/8" = 1'-0" |

NOTE:
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| Revisions: | Mark | Date | By | Description |
|------------|------|-----------|----|-------------------|
| | | 2/26/2018 | | ISSUED FOR PERMIT |
| | | 3/5/2018 | | BULLETIN #1 |



ALTO - DUVENECK
 SQUARE
 COVINGTON, KENTUCKY

PROJECT # 170928
 DATE ISSUED 01/23/2018

HOOD
 DRAWINGS

M4.0

EXHAUST FAN INFORMATION - Job#3305041

| FAN UNIT NO. | TAG | FAN UNIT MODEL # | CFM | ESP. | RPM | H.P. | B.H.P. | † | VOLT | FLA | DISCHARGE VELOCITY | WEIGHT (LBS.) | SONES |
|--------------|------|------------------|------|-------|------|-------|--------|---|------|-----|--------------------|---------------|-------|
| 1 | KEF1 | USB18DD-RM | 2800 | 1.650 | 1269 | 2.000 | 1.2680 | 3 | 208 | 8.3 | 1435 FPM | 405 | 18 |

MUA FAN INFORMATION - Job#3305041

| FAN UNIT NO. | TAG | FAN UNIT MODEL # | BLOWER | HOUSING | MIN CFM | DESIGN CFM | ESP. | RPM | H.P. | B.H.P. | † | VOLT | FLA | WEIGHT (LBS.) | SONES | BURNER EFFICIENCY(%) |
|--------------|-------|------------------|--------|----------|---------|------------|-------|------|-------|--------|---|------|-----|---------------|-------|----------------------|
| 2 | KMUA1 | A1-D.250-G10 | G10 | A1-D.250 | 1000 | 2300 | 0.400 | 1152 | 1.500 | 1.1080 | 3 | 208 | 4.6 | 669 | 21 | 92 |

GAS FIRED MAKE-UP AIR UNIT(S)

| FAN UNIT NO. | TAG | INPUT BTUs | OUTPUT BTUs | TEMP. RISE | REQUIRED INPUT GAS PRESSURE | GAS TYPE |
|--------------|-------|------------|-------------|------------|-----------------------------|----------|
| 2 | KMUA1 | 175500 | 161460 | 65 deg F | 7 in. w.c. - 14 in. w.c. | Natural |

FAN OPTIONS

| FAN UNIT NO. | TAG | OPTION (Qty. - Descr.) |
|--|-------|--|
| 1 | KEF1 | 1 - B118 - 24" Discharge Extension. |
| | | 1 - B1 - Discharge Orientation Vertical Upper Left - CW Inlet Side. |
| | | 1 - B118 - Inlet Ring Used To Connect Non-Factory Duct. |
| | | 1 - Utility Set - Spring Vibration Isolators - B112 Thru B118 / Equivalent Sized Utility Set - Indoor/Outdoor use. |
| | | 1 - VAV Package w/ Manual Control (VFD Included) |
| | | 1 - VFD factory mounted and wired in Exhaust Fan. |
| | | 1 - Line Reactor Mounted in Fan |
| 2 | KMUA1 | 1 - Line Reactor Mounting Bracket for Direct Drive Fans (Up to 25 HP). |
| | | 1 - Motorized Backdraft Damper for A1-D Housing |
| | | 1 - Low Fire Start |
| | | 1 - Inlet Pressure Gauge, 0-35" |
| | | 1 - Manifold Pressure Gauge, -5 to 15" wc |
| | | 1 - VAV Package w/ Manual Control (VFD Included) |
| | | 1 - VFD factory mounted and wired in commercial control vestibule for tempered supply fan. |
| 1 - Insulation Option for VBank filter section | | |

FAN ACCESSORIES

| FAN UNIT NO. | TAG | EXHAUST | | | SUPPLY | | | |
|--------------|-------|------------|----------------|------------|----------------|----------------|------------------|------------|
| | | GREASE CUP | GRAVITY DAMPER | WALL MOUNT | SIDE DISCHARGE | GRAVITY DAMPER | MOTORIZED DAMPER | WALL MOUNT |
| 1 | KEF1 | | | | | | | |
| 2 | KMUA1 | | | | YES | | YES | |

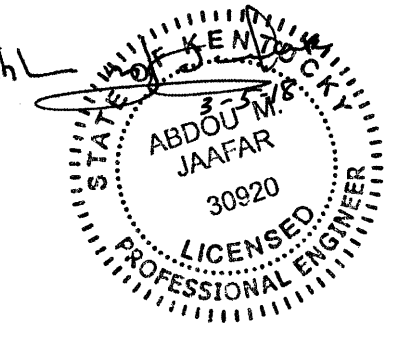
CURB ASSEMBLIES

| NO. | ON FAN | TAG | WEIGHT | ITEM | SIZE |
|-----|--------|------|--------|------|-------------------------------|
| 1 | #1 | KEF1 | 25 LBS | Curb | 4.000"W x 48.000"L x 12.000"H |



| | |
|--------------------------------|--------------------|
| JOB Alto's (Northern Kentucky) | |
| LOCATION COVINGTON, KY, 41011 | |
| DATE 2/13/2018 | JOB # 3305041 |
| DWG # 3 | DRAWN BY |
| REV. | SCALE 3/8" = 1'-0" |

NOTE:
THE INFORMATION PRESENTED HERE IS PROVIDED FOR REFERENCE ONLY AND WAS NOT PREPARED BY THE ENGINEER OF RECORD. AS SUCH, THE EOR ASSUMES NO RESPONSIBILITY FOR ERRORS, OMISSIONS, OR CODE COMPLIANCE ISSUES IN THE EXHAUST HOOD MANUFACTURER'S DOCUMENTS. ALL KITCHEN EXHAUST EQUIPMENT MUST COMPLY WITH 2012 IBC SECTION 506 AND LOCAL AMENDMENTS IN THEIR ENTIRETY.



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Revisions:

| Mark | Date | By | Description |
|------|-----------|----|-------------------|
| | 2/26/2018 | | ISSUED FOR PERMIT |
| △ | 3/5/2018 | | BULLETIN #1 |



ALTO - DUVENECK SQUARE
COVINGTON, KENTUCKY

PROJECT # 170928
DATE ISSUED 01/23/2018

HOOD DRAWINGS

M4.2