

GENERAL MECHANICAL NOTES

- WORK SHALL CONFORM WITH TO ALL CURRENT CODES AND AUTHORITY HAVING JURISDICTION.
- PROVIDE A WRITTEN GUARANTEE THAT SHALL WARRANT ALL WORKMANSHIP AND MATERIALS FOR ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY THE OWNER. ANY BREAKDOWN OCCURRING IN THE FIRST YEAR SHALL BE AT NO EXPENSE TO THE OWNER. ALL REFRIGERATION COMPRESSORS SHALL HAVE A 5 YEAR (PARTS ONLY) WARRANTY, AND ALL NATURAL GAS HEAT EXCHANGERS SHALL HAVE A 10 YEAR (PARTS ONLY) WARRANTY.
- DRAWINGS ARE SCHEMATIC, NOT ALL RISES AND DROPS ARE SHOWN. TRADES ARE TO COORDINATE THEIR WORK WITH ALL OTHER TRADES TO AVOID CONFLICTS. GENERALLY, DUCTWORK SHALL BE KEPT AS HIGH AS POSSIBLE.
- COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL DRAWINGS PRIOR TO ORDERING EQUIPMENT OR SUBMITTING SHOP DRAWINGS AND SHALL FURNISH EQUIPMENT WIRED FOR VOLTAGES SHOWN THEREIN.
- COORDINATE THE INSTALLATION OF MECHANICAL EQUIPMENT, DUCTWORK, ETC. TO FIT WITHIN THE SPACE ALLOWED BY THE ARCHITECTURAL AND STRUCTURAL CONDITIONS. CUTTING OR OTHERWISE ALTERING ANY STRUCTURAL MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE STRUCTURAL ENGINEER OF RECORD.
- KEEP A SET OF MARKED UP PRINTS WITH ANY FIELD CHANGES MADE DURING CONSTRUCTION TO CREATE AN "AS-BUILT" SET OF PRINTS TO BE TURNED OVER TO THE OWNER AT THE COMPLETION OF THE PROJECT.
- PROVIDE ACCESS PANELS IN CEILINGS AND WALLS TO ALLOW ACCESS TO VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC. MINIMUM ACCESS SIZE SHALL BE 12"x12", UNLESS LIMITED BY PHYSICAL CONSTRAINTS.
- MECHANICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- ROOFTOP UNITS SHALL BE FACTORY INSTALLED WITH SMOKE DETECTORS LOCATED IN THE RETURN SECTIONS FOR ALL UNITS. SMOKE DETECTORS SHALL BE WIRED TO THE ALARM PANEL IF APPLICABLE. UNITS SHALL SHUT DOWN UPON ACTIVATION.
- OUTSIDE AIR INTAKES FOR AIR CONDITIONING UNITS SHALL BE A MINIMUM OF 10 FEET FROM EXHAUST FANS, EXHAUST OPENINGS AND PLUMBING VENTS.
- ALL DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS.
- ALL SUPPLY AND RETURN DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE LATEST SMACNA STANDARDS. DUCTWORK SHALL BE FABRICATED OF GALVANIZED STEEL FOR A PRESSURE RATING OF (-) 2" WG FOR RETURN AND (+) 2" WG FOR SUPPLY DUCTWORK. ALL EXHAUST DUCTWORK SHALL CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE LATEST SMACNA AND ASHRAE STANDARDS. EXHAUST DUCTWORK SHALL BE FABRICATED OF GALVANIZED STEEL FOR A PRESSURE RATING OF 1" WG IN EXCESS OF THE SYSTEM FAN TOTAL STATIC PRESSURE RATING AT DESIGN FLOW RATE, UNLESS NOTED OTHERWISE.
- SUPPORT DUCTWORK FROM BUILDING STRUCTURE IN ACCORDANCE WITH SMACNA STANDARDS.
- ANY ADDITIONAL/SUPPLEMENTAL STEEL MEMBERS REQUIRED TO SUPPORT DUCTWORK OR EQUIPMENT FROM MAIN STRUCTURE SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
- DUCTWORK ELBOWS SHALL BE RADIUSED ELBOWS WHERE PRACTICAL. RADIUSED DUCTWORK ELBOWS SHALL HAVE A CENTERLINE RADIUS OF 1.5 TIMES THE DUCT WIDTH (OR DIAMETER) UNLESS NOTED OTHERWISE.
- ALL MITERED ELBOWS (RECTANGULAR AND ROUND) SHALL HAVE SINGLE THICKNESS TURNING VANES INSTALLED UNLESS NOTED OTHERWISE ON DRAWINGS.
- SECURELY SEAL ALL JOINTS LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTIONS IN DUCTWORK USING WELDMENTS, MECHANICAL FASTENERS WITH SEALS OR GASKETS OR MASTICS, MESH AND MASTIC SEALING SYSTEMS OR TAPES. TAPES AND MASTICS MUST BE LISTED AND LABELED IN ACCORDANCE WITH UL181A OR UL181B.
- DUCT CONNECTIONS TO FANS AND OTHER AIR DISTRIBUTION EQUIPMENT SHALL BE MADE USING MECHANICAL FASTENERS WITH SEALS, MASTICS OR GASKETS.
- SUPPLY AIR AND OUTSIDE AIR DUCTWORK INSIDE THE BUILDING ENVELOPE SHALL BE INSULATED WITH A MINIMUM 1" THICK (INSTALLED), 3/4 LB. PER CUBIC FOOT, FIBERGLASS DUCTWRAP, WITH FOIL FACED VAPOR BARRIER AND AN INSTALLED THERMAL RESISTANCE OF R4.2. EXHAUST DUCTWORK WITHIN 10 FEET OF THE OUTSIDE OPENING OR UP TO THE BACKDRAFT DAMPER SHALL HAVE SIMILAR INSULATION. ALTERNATE INSULATION FOR RECTANGULAR SUPPLY AND RETURN DUCT SHALL BE AN INTERIOR DUCT LINING WITH A MINIMUM OF R4.2 AND 1" THICK. DUCT LINER SHALL BE COATED AND CONTAIN AN ANTI-MICROBIAL AGENT WITHIN THE DUCT LINING ITSELF. INCREASE DUCT SHEET METAL SIZE AS REQUIRED TO MEET INSIDE CLEAR DIMENSIONS GIVEN ON DRAWINGS. INSULATION FOR DUCTS IN UNCONDITIONED ATTICS OR OTHER LOCATIONS OUTSIDE OF THE BUILDING ENVELOPE SHALL EXCEED ENERGY CODE REQUIREMENTS.
- ALL DUCT INSULATION SHALL MEET THE MINIMUM REQUIREMENTS OF U.L. 181 FOR FLAME SPREAD AND SMOKE DEVELOPMENT, AND SHALL BE U.L. LISTED.
- TRANSFER DUCTS SHALL BE INTERNALLY LINED TO AID IN CANCELING NOISE TRANSFER.
- EXHAUST DUCTWORK SHALL BE INSULATED UNLESS NOTED OTHERWISE.
- COORDINATE LOCATIONS OF GRILLES, REGISTERS AND DIFFUSERS WITH ARCHITECTURAL REFLECTED CEILING PLAN. LOCATIONS SHOWN ARE APPROXIMATE. ADJUST LOCATIONS IN THE FIELD AS REQUIRED BY CONSTRUCTION CONSTRAINTS.
- PROVIDE EACH SUPPLY AIR OUTLET OR DIFFUSER WITH ITS OWN BALANCING DEVICE. DEVICES CAN BE LOCATED IN DUCTWORK OR SUPPLY AIR DEVICE ITSELF.
- ALL MANUAL BALANCING DAMPERS SHALL HAVE FRAME AND BEARINGS, A CONTINUOUS SHAFT, AND A LOCKING QUADRANT WITH THREAD SCREW.
- PROVIDE FIRE DAMPERS WHERE DUCTS PENETRATE FIRE BARRIERS OR OTHER RATED ASSEMBLIES AS REQUIRED BY THE BUILDING CODE. PROVIDE SMOKE DAMPER OR FIRE/SMOKE DAMPER WHERE DUCTS PENETRATE SMOKE BARRIERS AS REQUIRED BY THE BUILDING CODE. CONTRACTOR IS RESPONSIBLE FOR FIRE DAMPER OR FIRE/SMOKE DAMPER AT RATED ASSEMBLIES NOTED ON ARCHITECTURAL OR LIFE SAFETY DRAWING, EVEN IF NOT NOTED ON MECHANICAL PLANS.
- PROVIDE FIRE STOPPING AS REQUIRED BY THE BUILDING CODE AROUND PIPES THAT PENETRATE RATED ASSEMBLIES AND AROUND DUCTS THAT ARE NOT PROTECTED WITH FIRE DAMPERS.
- ALL CONDENSATE DRAIN PIPING SHALL BE TYPE L HARD DRAWN COPPER, ASTM B-88, WITH TYPE DWV FITTINGS, ASME B16.23, OR SCHEDULE 40 PVC, ASTM D1785, WITH TYPE DWV FITTINGS, ASTM D2672. COPPER DRAIN PIPE AND FITTINGS SHALL BE JOINED USING 95-5 SILVER SOLDER, AND PVC PIPE AND FITTINGS SHALL BE JOINED USING SOLVENT CEMENT. PROVIDE TRAP WITH CLEANOUT AND UNIONS. SLOPE CONDENSATE DRAIN LINES A MINIMUM OF 1/8" PER FOOT AWAY FROM THE MECHANICAL EQUIPMENT.
- FLEXIBLE DUCTWORK SHALL BE CLASSIFIED UNDER UL 181. PROVIDE A MINIMUM OF 3 FEET IN LENGTH AND A MAXIMUM OF 10 FEET IN LENGTH, SUPPORTED WITH 3" GALVANIZED SHEET METAL STRAPS AT 4 FEET CENTERS (MAX). FLEXIBLE DUCT RUNOUTS SHALL BE ROUND DUCTWORK REINFORCED WITH A WIRE HELIX AND INSULATED WITH 1-1/2" THICK FIBERGLASS (WITH A 6.0 R-VALUE MINIMUM) COVERED WITH FLAMEPROOF VAPOR BARRIER OF ALUMINUM METALIZED POLYESTER FILM LAMINATED TO GLASS MESH. DUCT SHALL BE ATCO'S UPC #836 VALUFLIX CLASS 1 AIR DUCT OR EQUAL. CONNECTIONS TO DUCT MAINS SHALL BE MADE WITH FITTINGS PROVIDED WITH TWIST RINGS, BUTTERFLY DAMPERS, LOCKING HAND QUADRANTS, AND INSULATION GUARDS.
- MECHANICAL CONTRACTOR SHALL FURNISH, ROUTE, AND INSTALL CONTROL WIRING FOR ALL MECHANICAL SYSTEMS. CONTROLS AND CONTROL WIRING TERMINATION FOR ALL MECHANICAL SYSTEMS SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL PROVIDE THERMOSTATS AND CONTROLS WIRING FOR SPECIFIED EQUIPMENT. THERMOSTAT SHALL BE EQUAL TO HONEYWELL.
- INSTALL TOP OF THERMOSTATS AT 4'-0" ABOVE FINISHED FLOOR (AFF) UNLESS NOTED OTHERWISE. THERMOSTAT LOCATIONS SHALL BE COORDINATED WITH FINAL LOCATIONS OF WALL-MOUNTED ARCHITECTURAL AND ELECTRICAL EQUIPMENT. FINAL LOCATIONS MUST BE APPROVED BY THE ARCHITECT AND OWNER. THERMOSTATS SHALL NOT BE INSTALLED ON EXTERIOR WALLS IF INTERIOR WALLS ARE AVAILABLE WITHIN SPACE SERVED BY THERMOSTAT. SHOULD THE THERMOSTAT REQUIRE INSTALLATION ON AN EXTERIOR WALL AN INSULATED BACKING PLATE MUST BE PROVIDED TO PREVENT FALSE READINGS BY THE THERMOSTAT.
- SEQUENCE OF OPERATION: UNLESS NOTED OTHERWISE, THERMOSTAT AND UNITS SHALL BE SET UP FOR AN OCCUPIED MODE AND AN UNOCCUPIED MODE. IN OCCUPIED MODE, THE COMPRESSOR OR HEAT SHALL OPERATE WHEN NEEDED TO REACH THE THERMOSTAT SET POINT. THE SUPPLY SHALL RUN CONTINUOUSLY, AND THE OUTSIDE AIR DAMPER SHALL BE OPEN. IT IS A MECHANICAL CODE REQUIREMENT THAT THE FAN RUN CONTINUOUSLY TO BRING IN OUTSIDE AIR WHEN THE ZONE IS OCCUPIED. IN UNOCCUPIED MODE, THE COMPRESSOR OR HEAT SHALL OPERATE WHEN NEEDED TO REACH THE THERMOSTAT SET POINT, THE FAN SHALL OPERATE WHEN THE COMPRESSOR OR HEAT OPERATE AND THE OUTSIDE AIR DAMPER SHALL BE CLOSED.
- MECHANICAL CONTRACTOR SHALL PROVIDE A COMPLETE TEST AND BALANCE REPORT OF THE HVAC SYSTEMS TO INCLUDE OUTDOOR AIR TEMPERATURE AT TIME OF TESTING; ENTERING AIR TEMPERATURE AND LEAVING AIR TEMPERATURE AT THE COIL(S); AIR TEMPERATURE AT ONE SUPPLY AIR DIFFUSER AND RETURN AIR GRILLE IN EACH ZONE, AND SPACE TEMPERATURE FOR EACH SYSTEM. A COPY OF THE TEST AND BALANCE REPORT SHALL BE TRANSMITTED TO THE OWNER AND ENGINEER AND TO THE LOCAL CODE OFFICIALS AS REQUIRED.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE ALL DETAILS OF THE GAS PIPING SYSTEM WITH THE LOCAL GAS COMPANY. THIS INCLUDES, BUT IS NOT LIMITED TO, THE LOCATION OF THE GAS METER, AND THE GAS PRESSURE REQUIREMENTS. THE MECHANICAL CONTRACTOR SHALL PAY ALL COSTS REQUIRED BY THE GAS COMPANY. CONTACT THE LOCAL GAS COMPANY FOR SIZE AND TYPE OF PIPING AND VALVES REQUIRED FOR CONNECTION TO THE METER. GAS METER AND PRESSURE REGULATOR SHALL BE PROVIDED BY THE GAS COMPANY. THE GAS DEMAND INDICATED ON THE DRAWINGS IS BASED ON A HEATING VALUE OF 1,000 BTU (1 MBH) PER CUBIC FOOT, A SPECIFIC GRAVITY OF 0.6, AND ON THE PRIMARY EQUIPMENT SPECIFICATIONS IN THE SCHEDULES. GAS PIPING SIZES SHALL BE AS NOTED ON THE PLANS.
- GAS PIPING SHALL BE BLACK STEEL PIPE, SCHEDULE 40, ASTM A-53. FITTING SHALL BE STANDARD WEIGHT MALLEABLE IRON WITH THREADED CONNECTIONS. THREADED CONNECTIONS SHALL BE SEALED WITH AN APPROVED THREAD COMPOUND. GAS PIPING SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 54 (LATEST EDITION).
- ALL CONCEALED GAS PIPING SHALL BE PAINTED WITH ONE COAT OF ALKYD PRIMER AND ONE COAT OF ALKYD EXTERIOR PAINT. COLOR SHALL BE YELLOW.

PACKAGED ROOFTOP UNITS WITH GAS HEAT SCHEDULE

| MARK | MANUFACTURER MODEL | AREA SERVED | NOMINAL TONS | FAN SELECTION | | | | | COOLING CAPACITY | | GAS HEAT CAPACITY | | | | ELECTRICAL DATA | | MINIMUM EER (SEER) | EST. WEIGHT (LBS.) | NOTES |
|-------|--------------------|-------------|--------------|------------------|-------------------|------------|----------|------|----------------------|-------------------------|-------------------|------------|--------|------|-----------------|-------|--------------------|--------------------|--------|
| | | | | SUPPLY AIR (CFM) | OUTSIDE AIR (CFM) | ESP IN. WG | MOTOR HP | RPM | TOTAL COOLING (BTUH) | SENSIBLE COOLING (BTUH) | MBH INPUT | MBH OUTPUT | STAGES | AFUE | VOLTAGE | PHASE | | | |
| RTU-1 | TRANE YHJ090 | DINING AREA | 7.5 | 3000 | 600 | 1.32 | 3 | 1283 | 94,460 | 73,140 | 120,000 | 97,200 | 1 | 80 | --- | --- | 12.1 | 1011 | 1 - 19 |
| RTU-2 | TRANE YHC120 | DINING AREA | 10 | 4000 | 900 | 1.56 | 3 | 1535 | 124,490 | 96,300 | 150,000 | 121,500 | 1 | 80 | --- | --- | 11.4 | 1052 | 1 - 19 |
| RTU-3 | TRANE YHJ120 | KITCHEN | 12.5 | 5000 | 300 | 1.89 | 4.6 | 1737 | 154,530 | 119,640 | 150,000 | 121,500 | 1 | 80 | --- | --- | 10.8 | 1331 | 1 - 19 |

NOTES:
1. ACCEPTABLE ALTERNATE MANUFACTURERS INCLUDE CARRIER, DAIKIN APPLIED, AND YORK.
2. COOLING CAPACITIES BASED ON 80°F DB / 67°F WB ENTERING COIL, 95°F DB ENTERING CONDENSER.
3. HEATING CAPACITY BASED ON NATURAL GAS AT 1000 BTU PER CUBIC FOOT AND 0.6 SPECIFIC GRAVITY.
4. PROVIDE FACTORY FURNISHED 14" HIGH INSULATED ROOF CURB.
5. PROVIDE 7 DAY PROGRAMMABLE THERMOSTAT WITH AUTO HEAT/COOL CHANGEOVER. REFER TO PLAN FOR THERMOSTAT LOCATIONS.
6. PROVIDE FACTORY INSTALLED DIRTY FILTER SWITCH AND BLOWER PROVING SWITCH.
7. PROVIDE 1 YEAR PARTS AND LABOR WARRANTY.
8. PROVIDE 5 YEAR PARTS WARRANTY ON COMPRESSORS.
9. PROVIDE 10 YEAR HEAT EXCHANGER WARRANTY.
10. PROVIDE FACTORY INSTALLED SMOKE DETECTORS ON THE RETURN DUCT.
11. PROVIDE FACTORY INSTALLED ENTHALPY ECONOMIZER AND BAROMETRIC RELIEF.
12. PROVIDE MOTORIZED OUTSIDE AIR DAMPER.
13. MECHANICAL CONTRACTOR SHALL PROVIDE A SECOND SET OF FILTERS TO BE INSTALLED PRIOR TO OPENING.
14. UNIT SHALL USE R-410A REFRIGERANT.
15. PROVIDE PRESSURE REGULATOR TO REDUCE PRESSURE FROM 2 PSIG TO 7" W.C. (IF REQUIRED).
16. MECHANICAL CONTRACTOR SHALL CONFIRM ALL UNITS HAVE BEEN PROPERLY STARTED AND CONFIRMED RUNNING PROPERLY.
17. LABEL UNITS WITH TAG NUMBER OR STENCIL TAG NUMBER ON SIDE OF UNIT WITH BLACK EXTERIOR PAINT.
18. PROVIDE FACTORY-MOUNTED DISCONNECT.
19. PROVIDE HOT-GAS REHEAT.

FAN SCHEDULE

| MARK | MANUFACTURER MODEL | AREA SERVED | SERVICE | TYPE | CFM | STATIC PRESSURE (IN WG) | NOMINAL RPM | DRIVE TYPE | ELECTRICAL DATA | | MOTOR HP (WATTS) | CONTROL | WEIGHT | NOTES |
|-------|-----------------------|-------------|---------|---------|------|-------------------------|-------------|------------|-----------------|-------|------------------|-----------------|--------|--------|
| | | | | | | | | | VOLTAGE | PHASE | | | | |
| EF-1 | ACCUREX XCUE-160-VG | HOOD 1 | EXHAUST | HOOD | 3810 | 0.6 | 1599 | CENT. | --- | --- | 1.55 | WITH HOOD | 122 | 12 |
| EF-2 | ACCUREX XCUE-099-VG | HOOD 2 | EXHAUST | HOOD | 625 | 0.6 | 1378 | CENT. | --- | --- | 0.25 | WITH HOOD | 42 | 12 |
| EF-3 | GREENHECK SP-A90 | RESTROOM | EXHAUST | CEILING | 75 | 0.25 | 900 | DIRECT | --- | --- | (14) | WITH TIME CLOCK | 12 | 1 - 11 |
| EF-4 | GREENHECK SP-A90 | RESTROOM | EXHAUST | CEILING | 75 | 0.25 | 900 | DIRECT | --- | --- | (14) | WITH TIME CLOCK | 12 | 1 - 11 |
| EF-5 | GREENHECK SP-A90 | RESTROOM | EXHAUST | CEILING | 75 | 0.25 | 900 | DIRECT | --- | --- | (14) | WITH TIME CLOCK | 12 | 1 - 11 |
| EF-6 | GREENHECK SP-A90 | RESTROOM | EXHAUST | CEILING | 75 | 0.25 | 900 | DIRECT | --- | --- | (14) | WITH TIME CLOCK | 12 | 1 - 11 |
| MAU-1 | ACCUREX XKID-15-M2-VG | HOODS | EXHAUST | HOOD | 3425 | 0.5 | 1712 | DIRECT | --- | --- | 1 | WITH HOOD | 186 | 12 |

NOTES:
1. PROVIDE UNIT WITH GRAVITY BACKDRAFT DAMPER.
2. PROVIDE VIBRATION ISOLATION.
3. UNIT SHALL BE UL LISTED AND AMCA CERTIFIED.
4. PROVIDE PLUG TYPE DISCONNECT.
5. PROVIDE ROUND DISCHARGE COLLAR.
6. PROVIDE OFF-WHITE METAL GRILLE.
7. PROVIDE SPEED CONTROL.
8. PROVIDE MOTOR WITH THERMAL OVERLOAD PROTECTION.
9. PROVIDE INSULATED HOUSING FOR SOUND ATTENUATION.
10. PROVIDE WITH GREENHECK ROC-7 OR SIMILAR CURB CAP.
11. ACCEPTABLE EQUALS SHALL BE ACME, BREIDERT, CARNES, COOK, AND PENN.
12. SEE ACCUREX HOOD DRAWINGS FOR MORE INFORMATION.

VENTILATION COMPLIANCE SCHEDULE

| UNIT MARK | AREA SERVED | AREA (FT²) | PEOPLE PER 1000 FT² | NUMBER OF PEOPLE | AIRFLOW PER PERSON | AIRFLOW PER FT² | OUTSIDE AIR REQUIRED (CFM) | TOTAL OUTSIDE AIR REQUIRED (CFM) | TOTAL OUTSIDE AIR PROVIDED (CFM) |
|-----------|-------------|------------|---------------------|------------------|--------------------|-----------------|----------------------------|----------------------------------|----------------------------------|
| RTU-1 | DINING ROOM | 986 | 70 | 44* | 7.5 | 0.18 | 507 | 507 | 600 |
| RTU-2 | DINING ROOM | 1105 | 70 | 80* | 7.5 | 0.18 | 800 | 800 | 900 |
| RTU-3 | KITCHEN | 900 | 20 | 18 | 7.5 | 0.12 | 243 | 261 | 3725 |
| | STORAGE | 155 | --- | --- | --- | 0.06 | 10 | | |
| MAU-1 | OFFICE | 45 | 5 | 1 | 5 | 0.06 | 8 | 1580 | 5225 |
| | | TOTAL | | | | | | | |

NOTES:
1. PEOPLE DENSITY, CFM PER PERSON, AND CFM PER SQUARE FOOT ARE BASED ON THE MECHANICAL CODE DEFAULT VALUES UNLESS NOTED OTHERWISE.
2. WHERE NOTED PEOPLE COUNT IS BASED ON SEAT COUNT OR ACTUAL NUMBER OF PEOPLE. (*)

AIR DISTRIBUTION SCHEDULE

| MARK | TYPE | DESCRIPTION | DESIGN BASIS | | FACE SIZE | NECK SIZE | MATERIAL | NOTES |
|------|----------|---|--------------|-------|-----------|-----------|----------|----------------------|
| | | | MANUF. | MODEL | | | | |
| S-1 | SUPPLY | SQUARE CONE, FIXED PATTERN, 3-CONE LAY-IN | PRICE | ASCD | 12"x12" | 6"Ø | ALUMINUM | 1 - 4 |
| S-2 | SUPPLY | SQUARE CONE, FIXED PATTERN, 3-CONE LAY-IN | PRICE | ASCD | 24"x24" | 10"Ø | ALUMINUM | 1 - 4 |
| S-3 | SUPPLY | SQUARE CONE, FIXED PATTERN, 3-CONE LAY-IN | PRICE | ASCD | 24"x24" | 12"Ø | ALUMINUM | 1 - 4 |
| S-4 | SUPPLY | CIRCLE CONE, FIXED PATTERN, 4-CONE LAY-IN | PRICE | RCDA | 10"Ø | 6"Ø | ALUMINUM | 1 - 4 |
| S-5 | SUPPLY | LOUVER, DOUBLE DEFL, LONG BLADES IN FRONT, 3/4" SPACING, WALL-MOUNT | PRICE | 610 | 10"x6" | --- | ALUMINUM | 1, 2, 4 |
| S-6 | SUPPLY | LOUVER, DOUBLE DEFL, LONG BLADES IN FRONT, 3/4" SPACING, WALL-MOUNT | PRICE | 610 | 14"x8" | --- | ALUMINUM | 1, 2, 4 |
| S-7 | SUPPLY | SPIRAL DUCT LOUVER, DBL DEFL, 3/4" SPACING, CURVED TO FIT DUCT | PRICE | SDGE | 10"x4" | --- | ALUMINUM | 2, 4, WITH AIR SCOOP |
| S-8 | SUPPLY | SPIRAL DUCT LOUVER, DBL DEFL, 3/4" SPACING, CURVED TO FIT DUCT | PRICE | SDGE | 10"x6" | --- | ALUMINUM | 2, 4, WITH AIR SCOOP |
| S-9 | SUPPLY | SPIRAL DUCT LOUVER, DBL DEFL, 3/4" SPACING, CURVED TO FIT DUCT | PRICE | SDGE | 14"x8" | --- | ALUMINUM | 2, 4, WITH AIR SCOOP |
| R-1 | RETURN | LOUVER FACE, 45° BLADES, 1/2" SPACING WITH BACK FOR CEILING MOUNT, LAY-IN | PRICE | 635 | 24"x24" | 20"x20" | ALUMINUM | 2, 3, 4 |
| T-1 | TRANSFER | LOUVER FACE, 45° BLADES, 1/2" SPACING WITH BACK FOR CEILING MOUNT, LAY-IN | PRICE | STG | 12"x12" | 6"x6" | ALUMINUM | 2,3,4 |

NOTES:
1. PROVIDE OPPOSED BLADE DAMPERS IN NECK OF DIFFUSER OR REGISTER, WITH ACCESS TO DAMPER THROUGH FACE OF DIFFUSER OR REGISTER.
2. FINISH SHALL BE COORDINATED WITH ARCHITECTURAL PLANS.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR MOUNTING TYPE.
4. ACCEPTABLE EQUALS INCLUDE METALAIRE AND TITUS.

AIR BALANCE SCHEDULE

| UNIT MARK | SUPPLY AIR CFM | RETURN AIR CFM | OUTSIDE AIR CFM | PERCENT OUTSIDE AIR | EXHAUST CFM |
|-------------|----------------|----------------|-----------------|---------------------|-------------|
| RTU-1 | 3000 | 2400 | 600 | 20% | --- |
| RTU-2 | 4000 | 3100 | 900 | 22% | --- |
| RTU-3 | 5000 | 4700 | 300 | 6% | --- |
| MAU-1 | 3425 | 0 | 3425 | 100% | --- |
| EF-1 | --- | --- | --- | --- | -3810 |
| EF-2 | --- | --- | --- | --- | -625 |
| EF-3 | --- | --- | --- | --- | -75 |
| EF-4 | --- | --- | --- | --- | -75 |
| EF-5 | --- | --- | --- | --- | -75 |
| EF-6 | --- | --- | --- | --- | -75 |
| TOTAL | 15425 | 10200 | 5225 | --- | 4735 |
| AIR BALANCE | | | +490 CFM | | |

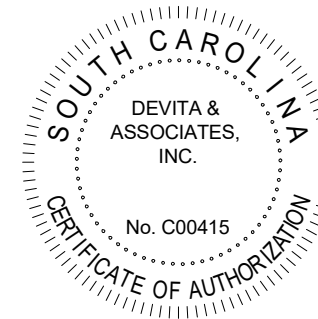
ELECTRIC UNIT HEATER SCHEDULE

| MARK | MANUFACTURER MODEL | AREA SERVED | CFM | FAN MOTOR HP | NOMINAL RPM | HEAT | | ELECTRICAL DATA | | NOTES |
|-------|--------------------|-------------|-----|--------------|-------------|------|-----|-----------------|-------|-------|
| | | | | | | KW | MBH | VOLTAGE | PHASE | |
| EUH-1 | QMARK CWH1208 | MECHANICAL | 65 | --- | --- | 1 | 3.4 | 208 | 1 | 1 - 6 |

NOTES:
1. UNITS SHALL BE U.L. LISTED.
2. PROVIDE THERMAL OVERLOAD PROTECTION.
3. PROVIDE REMOTE THERMOSTAT. SET TEMPERATURE AT 60°F.
4. PROVIDE UNIT WITH INTEGRAL DISCONNECT SWITCH.
5. PROVIDE 24 VOLT TRANSFORMER START/STOP RELAY.
6. ACCEPTABLE EQUALS SHALL BE QMARK AND REZ NOR.



Seal



DP3 Architects, Ltd.
15 South Main Street, Suite 400
Greenville, SC 29601
864.232.9200
www.DP3architects.com

Project

MARIACHIS RESTAURANT LANCASTER, SC

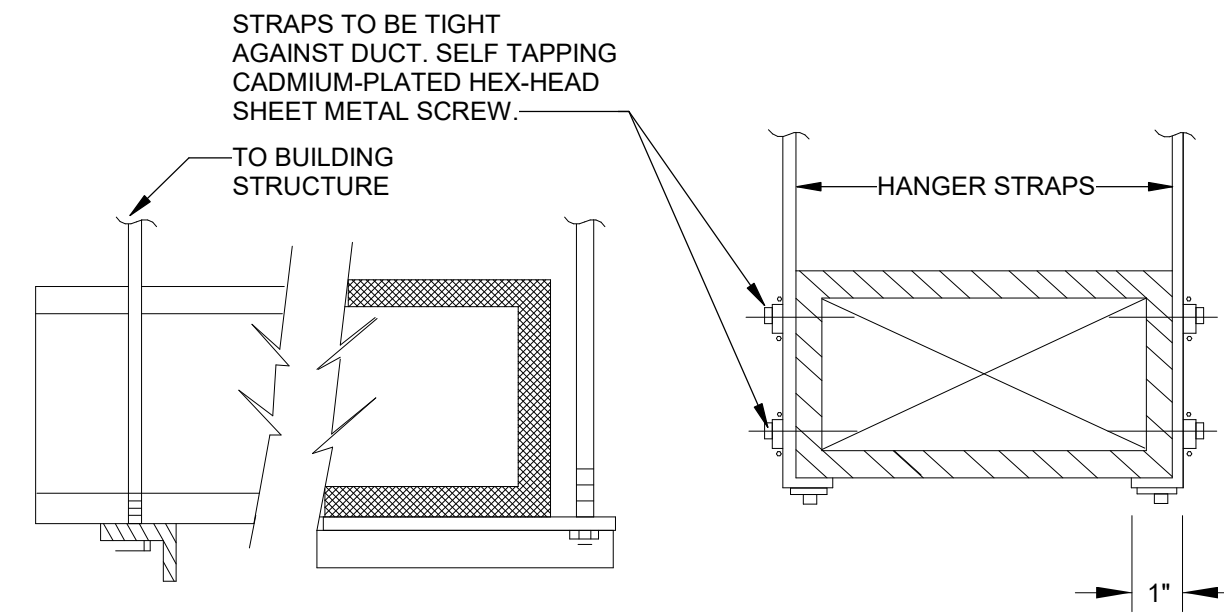
Project Number 23213
Drawn By WJS
Checked By KFM
Date Issue Date

Revisions

Drawing

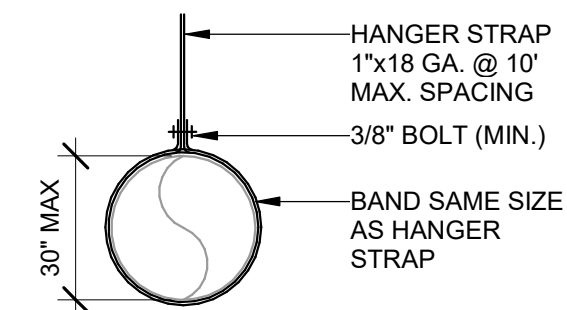
MECHANICAL NOTES AND SCHEDULES

MO.1

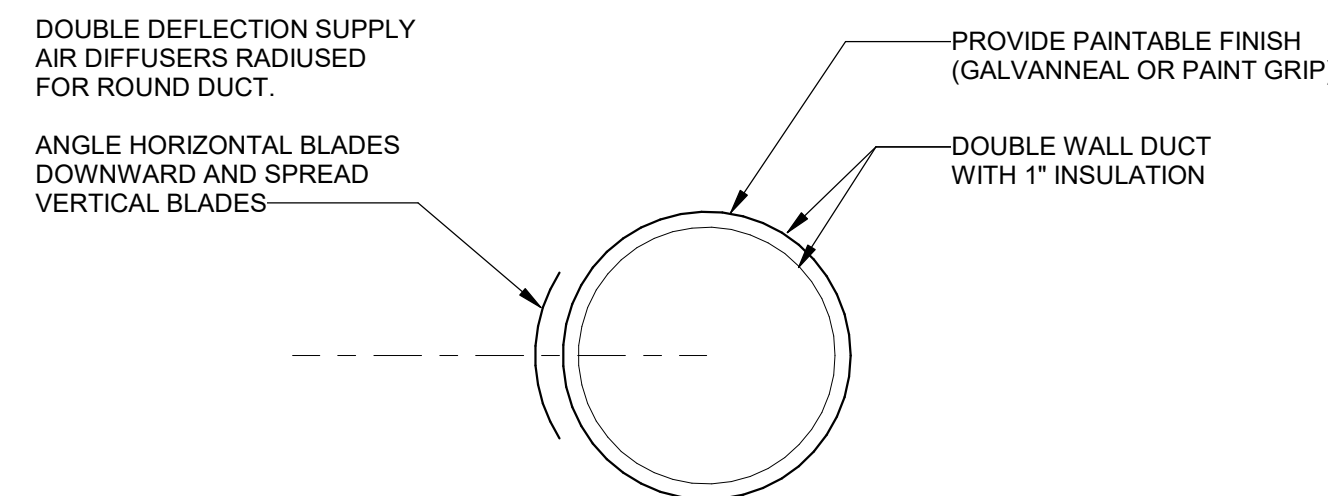


| HANGER SIZES FOR RECTANGULAR DUCTS | | | |
|------------------------------------|--------------------|--------------------------|-----------------|
| MAX. SIDE | HANGER | SUPPORT ANGLE HORIZONTAL | SPACING MAXIMUM |
| 30" | 1"x18" GAUGE STRAP | NONE REQUIRED | 10'-0" |
| 36" | 1/4" ROUND ROD | 1-1/2" x 1-1/2" x 1/8" | 8'-0" |
| 48" | 1/4" ROUND ROD | 2" x 2" x 1/8" | 8'-0" |
| 60" | 5/16" ROUND ROD | 2" x 2" x 1/8" | 8'-0" |
| 84" | 3/8" ROUND ROD | 2" x 2" x 1/8" | 8'-0" |

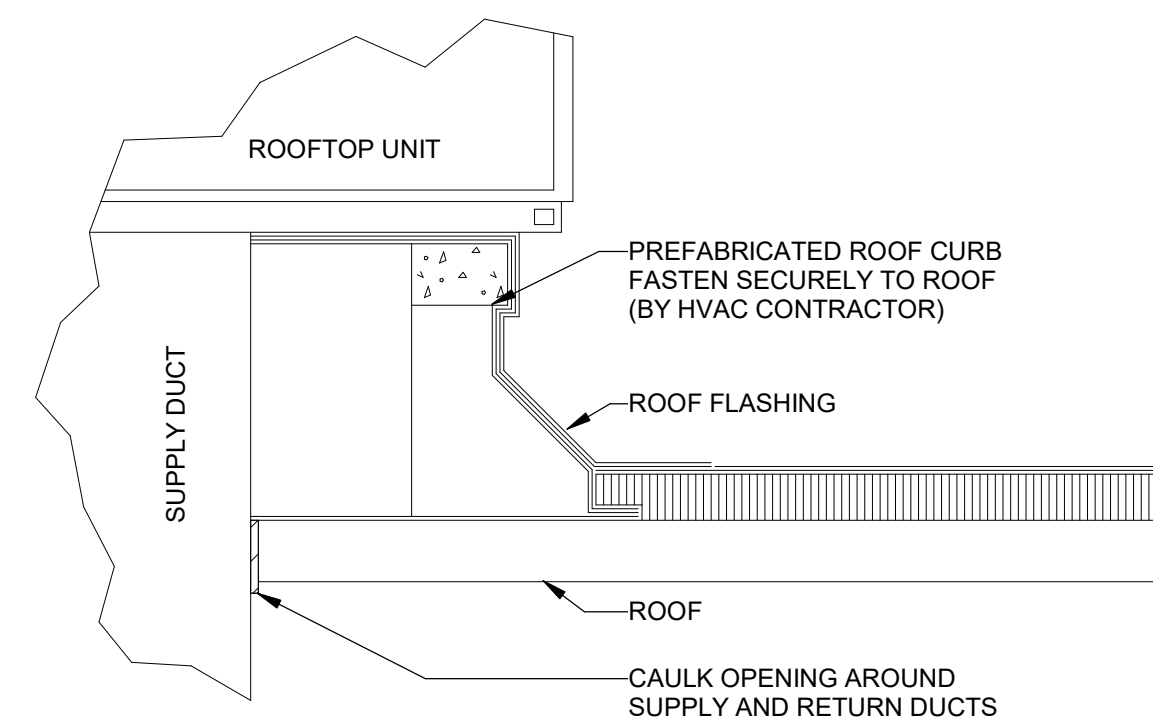
1 DUCT HANGER SIZING FOR RECTANGULAR
M0.2 NOT TO SCALE



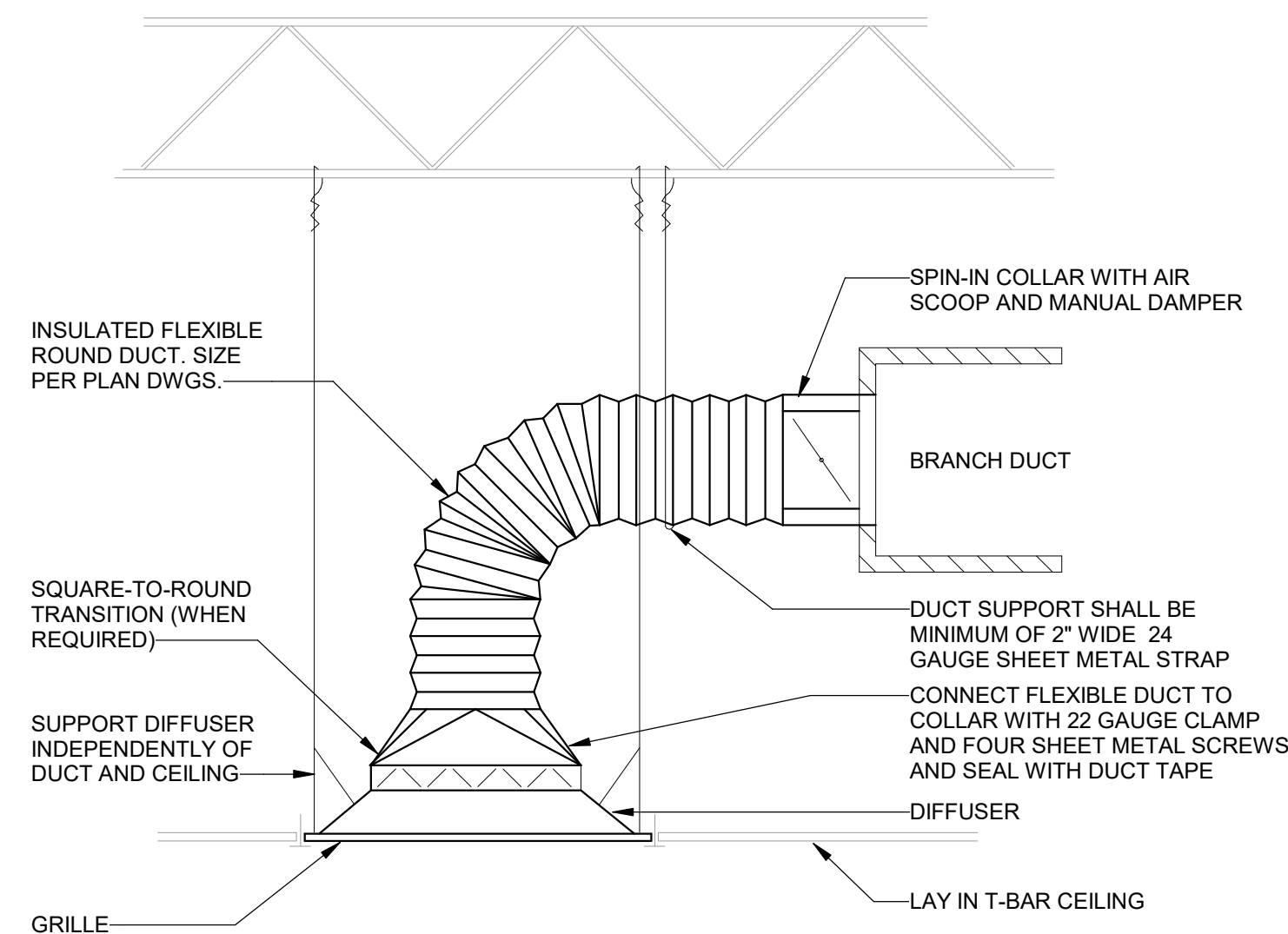
4 DUCT HANGER SIZING FOR ROUND
M0.2 NOT TO SCALE



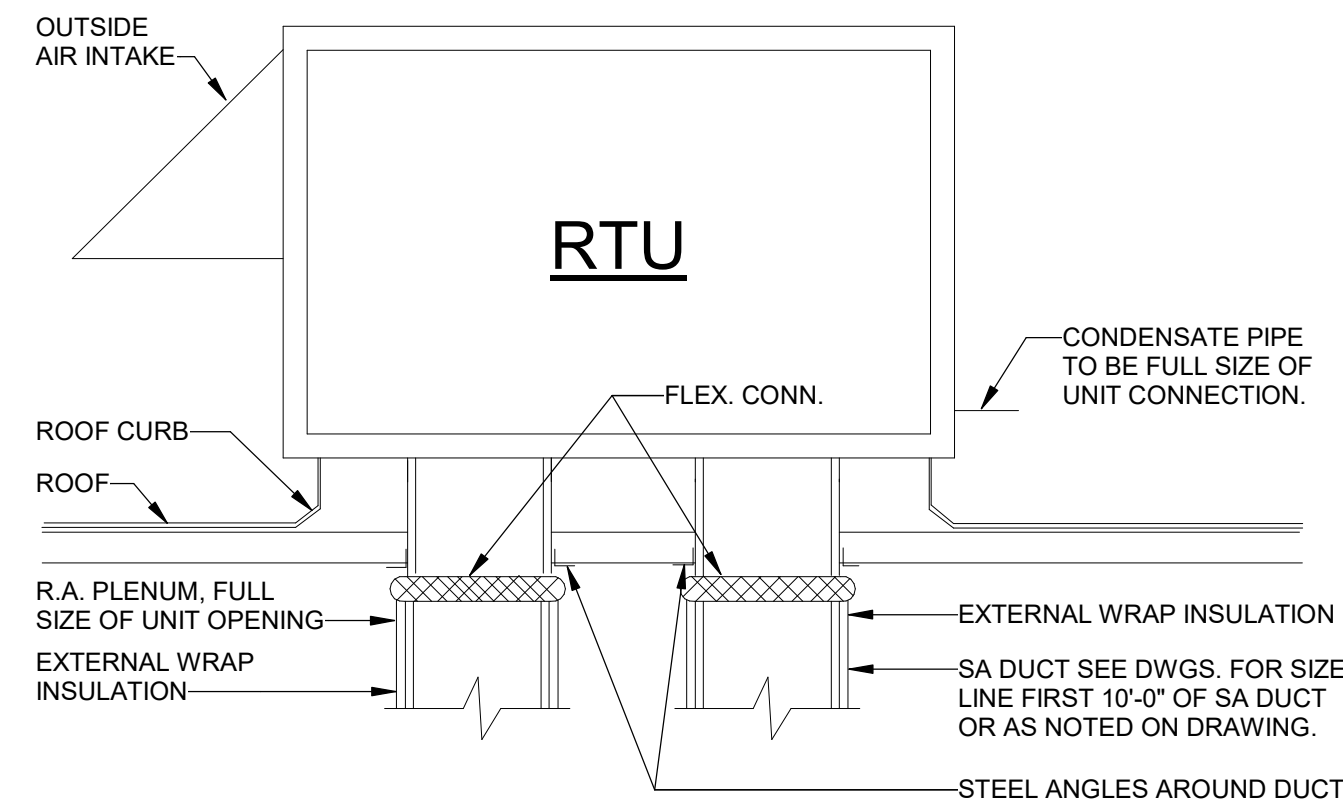
5 ROUND DUCT - DUCT-MOUNTED DIFFUSER
M0.2 NOT TO SCALE



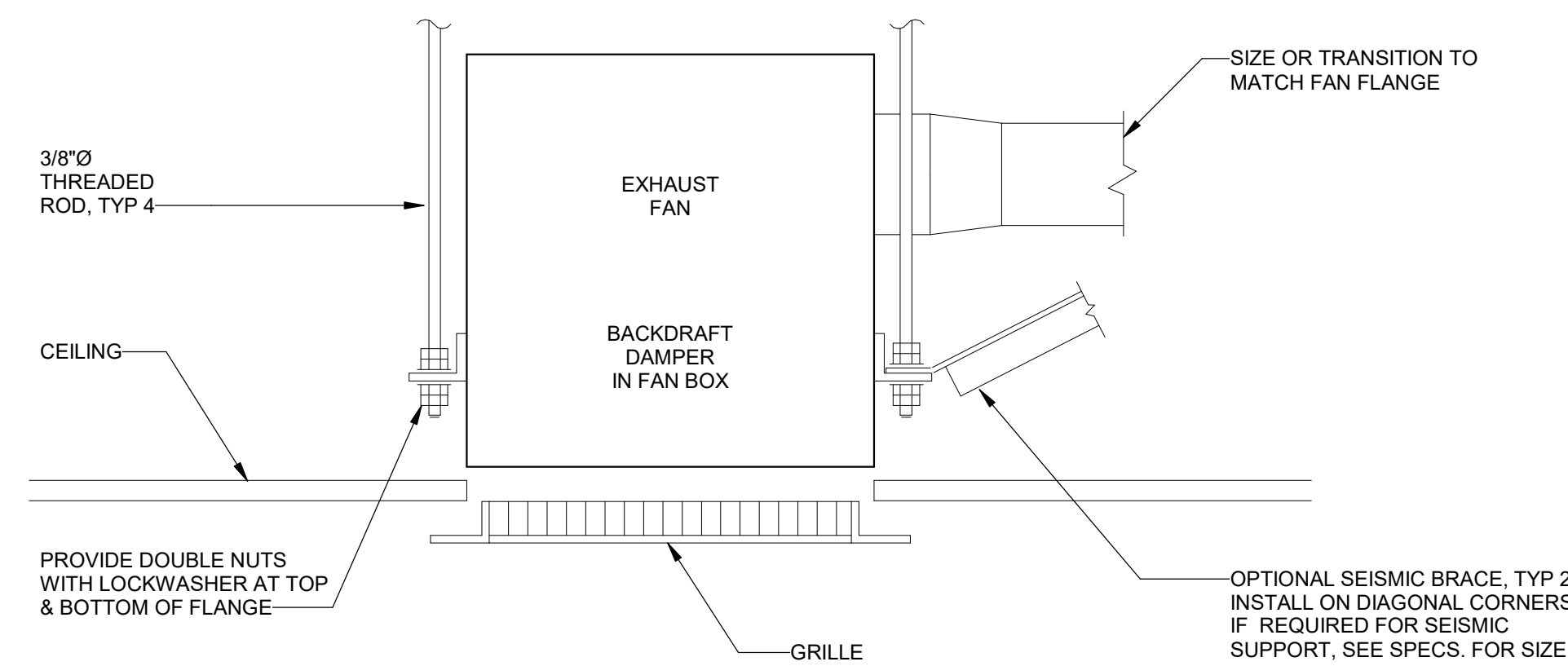
8 ROOF TOP UNIT CURB DETAIL
M0.2 NOT TO SCALE



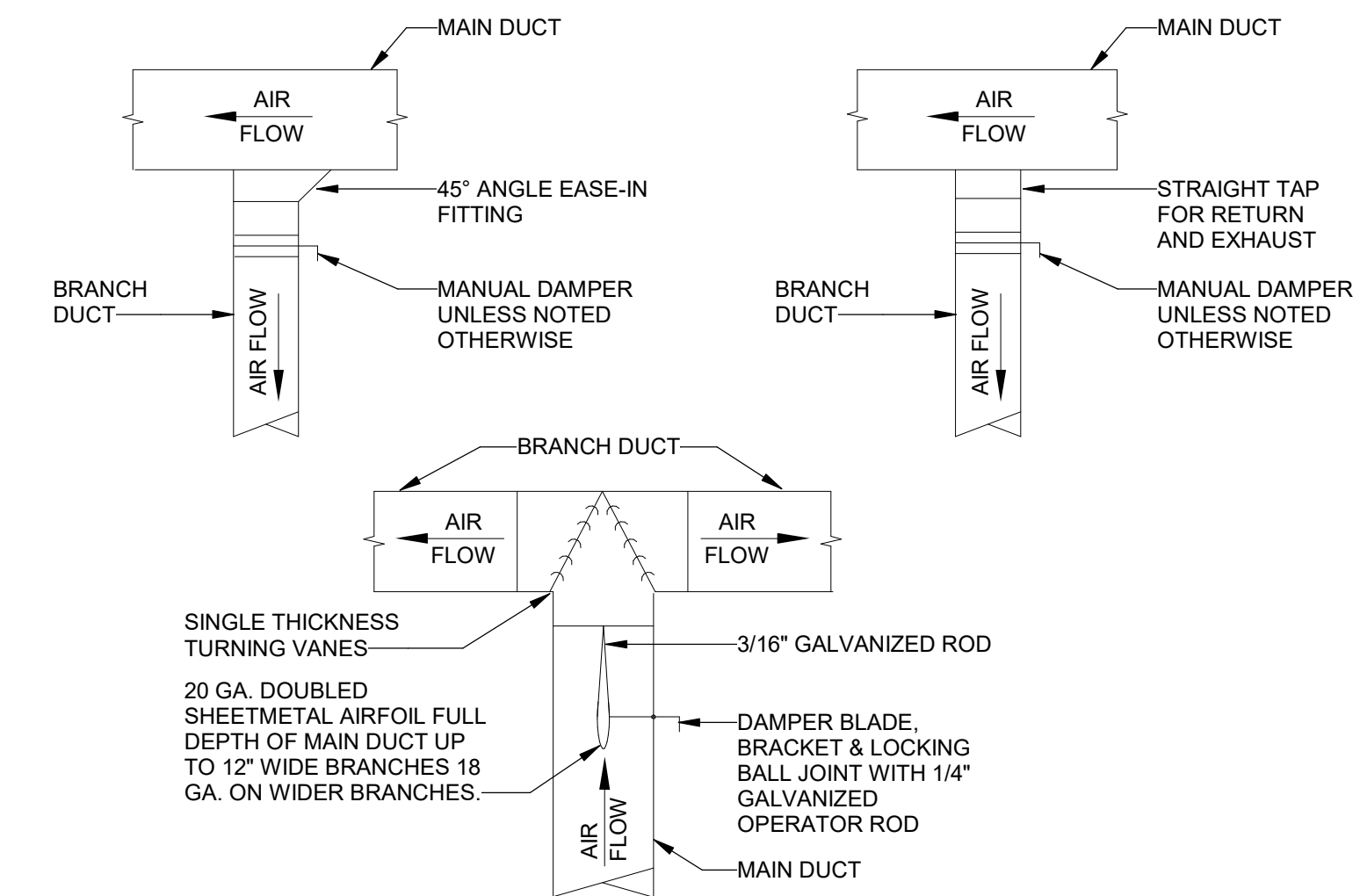
2 SUPPLY DIFFUSER INSTALLATION (FLEX DUCT)
M0.2 NOT TO SCALE



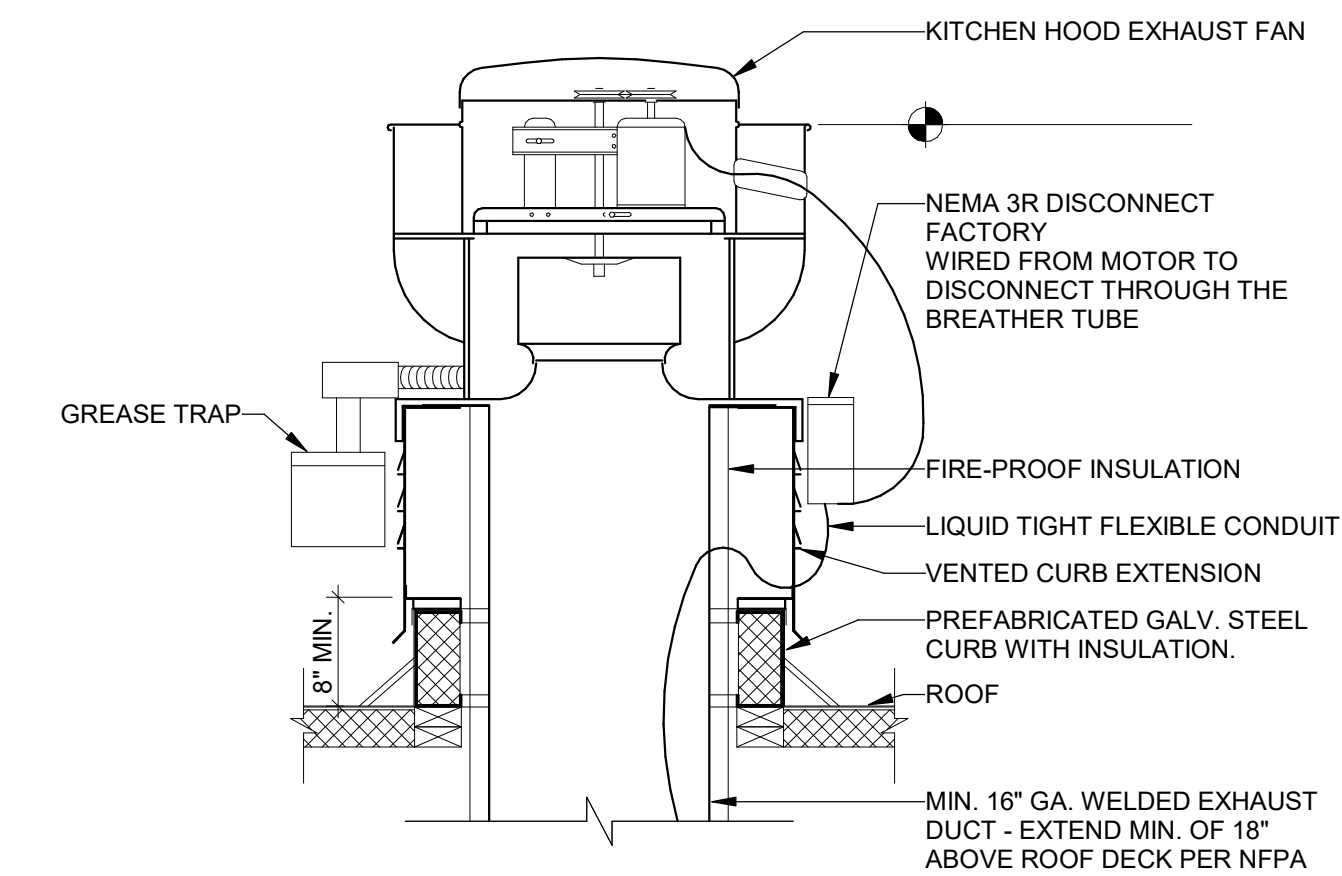
6 ROOF TOP UNIT MOUNTING DETAIL
M0.2 NOT TO SCALE



9 CEILING EXHAUST FAN
M0.2 NOT TO SCALE

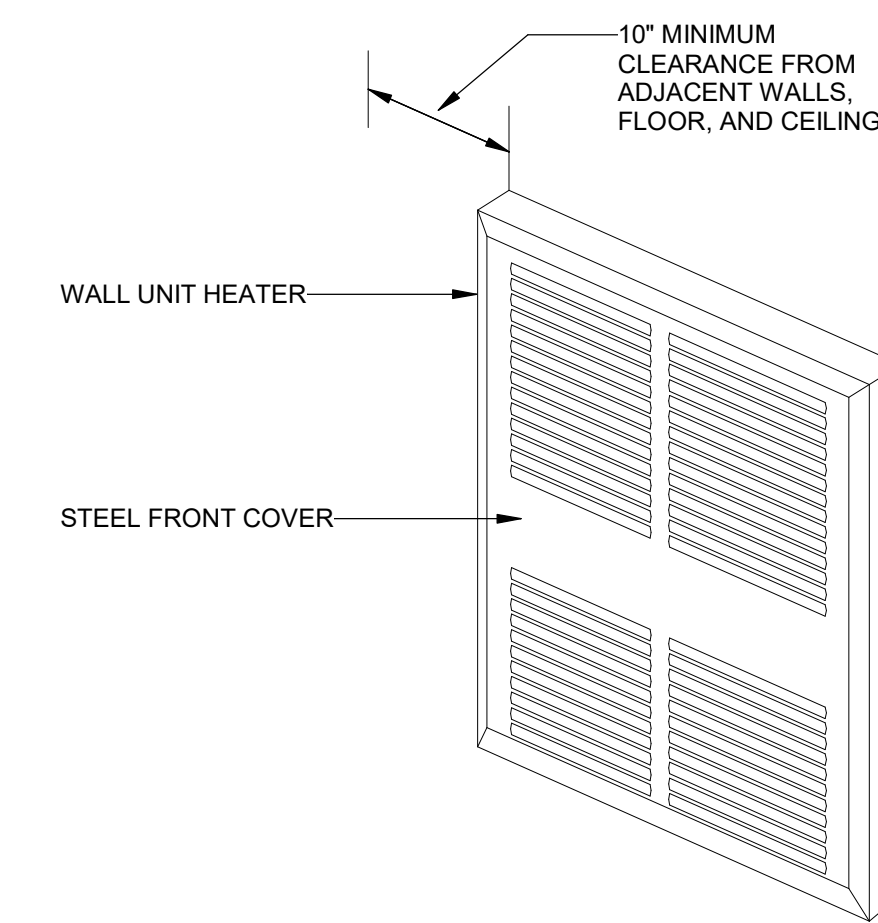


3 TYPICAL RECTANGULAR LOW-PRESSURE BRANCH TAKE-OFFS
M0.2 NOT TO SCALE



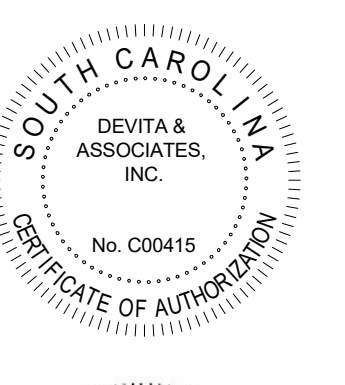
NOTE:
LOCATE EXHAUST FANS MIN. 10'-0"
FROM ANY OUTSIDE AIR INTAKE

7 KITCHEN GREASE EXHAUST FAN MOUNTING
M0.2 NOT TO SCALE



10 ELECTRIC UNIT HEATER - WALL-MOUNTED
M0.2 NOT TO SCALE

Seal



DP3
ARCHITECTS

DP3 Architects, Ltd.
15 South Main Street, Suite 400
Greenville, SC 29601
864.232.6200
www.DP3architects.com

Project

MARIACHIS
RESTAURANT
LANCASTER, SC

Project Number 23213
Drawn By WJS
Checked By KFM
Date Issue Date

Revisions

Drawing

MECHANICAL
DETAILS

M0.2

Copyright: These Drawings are the property of DP3 Architects, Ltd., and reuse on any other project without written permission will result in legal action.

GENERAL NOTES:

1. ALL EXPOSED S/A DUCT IN DINING AREA TO BE DOUBLE WALL SPIRAL WITH 1" INTERNAL INSULATION. S/A DUCT WORK LOCATED ABOVE CEILING AND HIDDEN FROM VIEW SHALL BE SINGLE WALL DUCT WITH EXTERIOR FSK INSULATION.
2. R/A DUCT WORK EXPOSED IN DINING AREA TO BE INTERNALLY INSULATED WITH MINIMUM 1" THICK ANTI MICROBIAL DUCT LINER. SHEAT METAL SHALL HAVE A PAINT GRIP FINISH.
3. MOUNT ALL NEW DUCT WORK TIGHT BELOW STRUCTURE.

KEYED NOTES: (#)

1. TURN DUCT UP AND COVER R/A OPENING WITH WIRE MESH REMOVABLE GRATE.
2. MOUNT SMOKE DETECTOR IN R/A DUCT WITH AUDIBLE VISUAL ALARM/TEST STATION.
3. MOUNT S/A DIFFUSER @ 22" BELOW HORIZONTAL CENTER LINE OF DUCT.

Seal



Kevin J. Smith
8/6/24

DP3
ARCHITECTS

DP3 Architects, Ltd.
15 South Main Street, Suite 400
Greenville, SC 29601
864.232.6200
www.DP3architects.com

Project

MARIACHIS
RESTAURANT
LANCASTER, SC

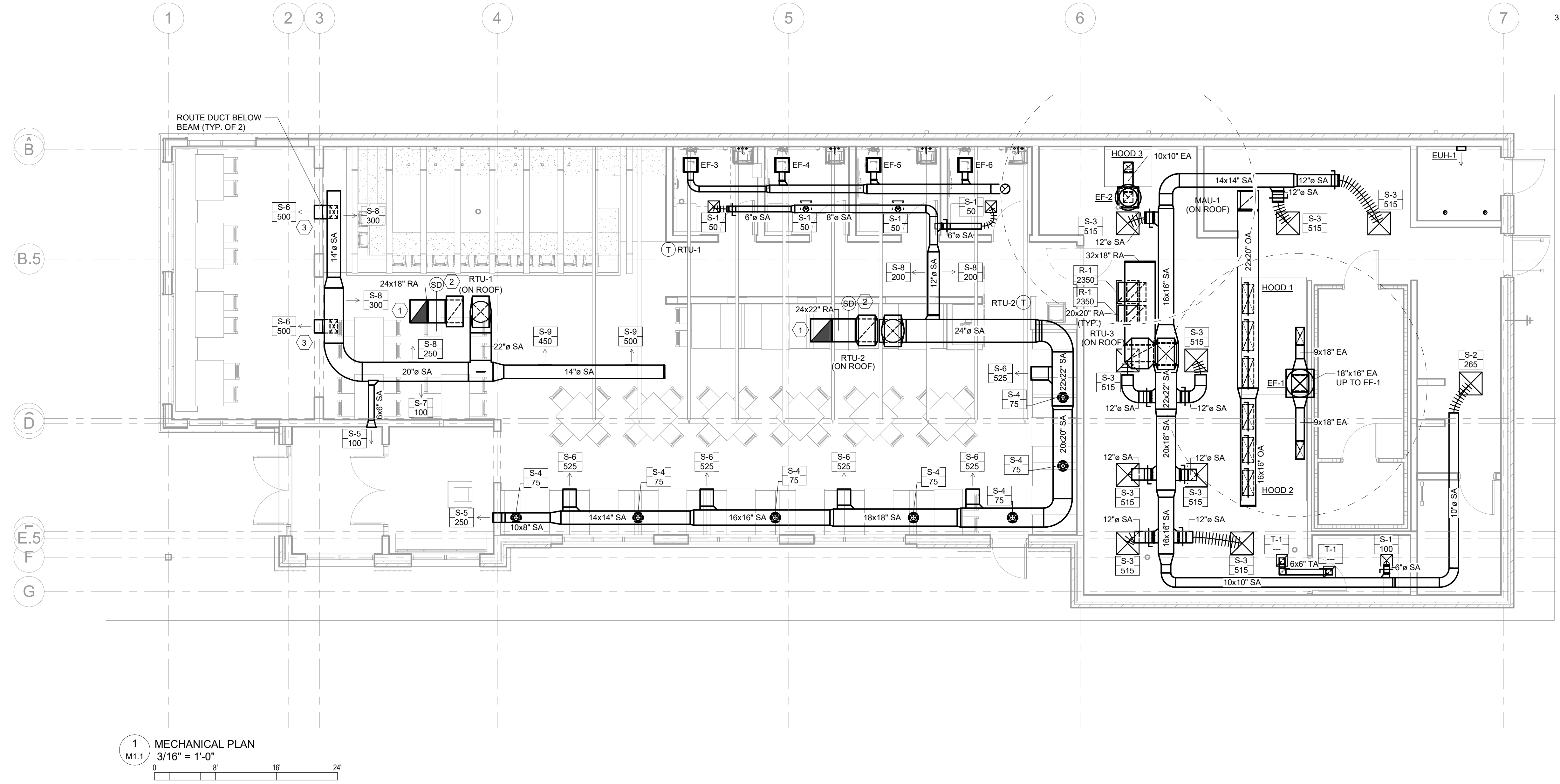
| | |
|----------------|------------|
| Project Number | 23213 |
| Drawn By | WJS |
| Checked By | KFM |
| Date | Issue Date |

Revisions

Drawing

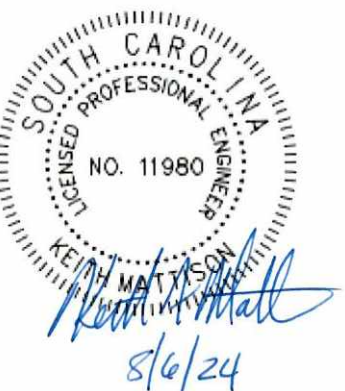
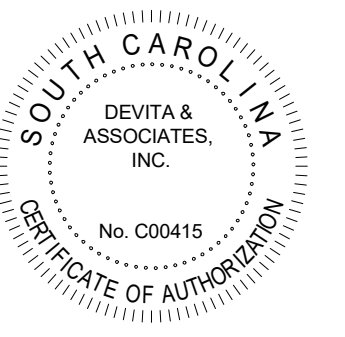
MECHANICAL PLAN

M1.1



1 MECHANICAL PLAN
M1.1
3/16" = 1'-0"
0 8' 16' 24'

Seal



DP3
 ARCHITECTS

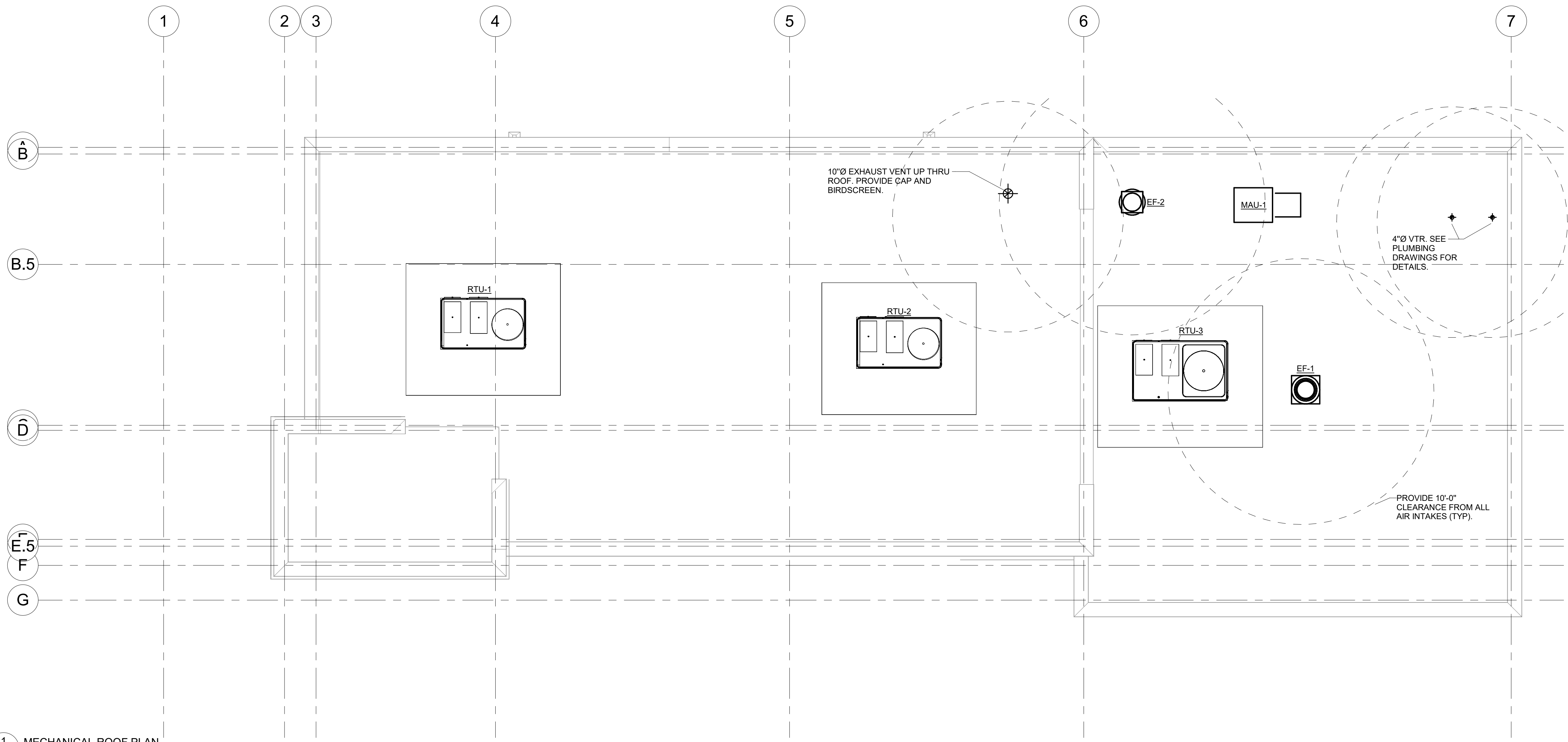
DP3 Architects, Ltd.
 15 South Main Street, Suite 400
 Greenville, SC 29601
 864.232.6200
 www.DP3architects.com

Project

**MARIACHIS
 RESTAURANT
 LANCASTER, SC**

Project Number 23213
 Drawn By WJS
 Checked By KFM
 Date Issue Date

Revisions



1 MECHANICAL ROOF PLAN
 M2.1
 3/16" = 1'-0"
 0 4 8 12 16'

Copyright: These Drawings are the property of DP3 Architects, Ltd., and reuse on any other project without written permission will result in legal action.

Drawing

MECHANICAL
 ROOF PLAN

M2.1

Copyright: These Drawings are the property of DP3 Architects, Ltd., and reuse on any other project without written permission will result in legal action.

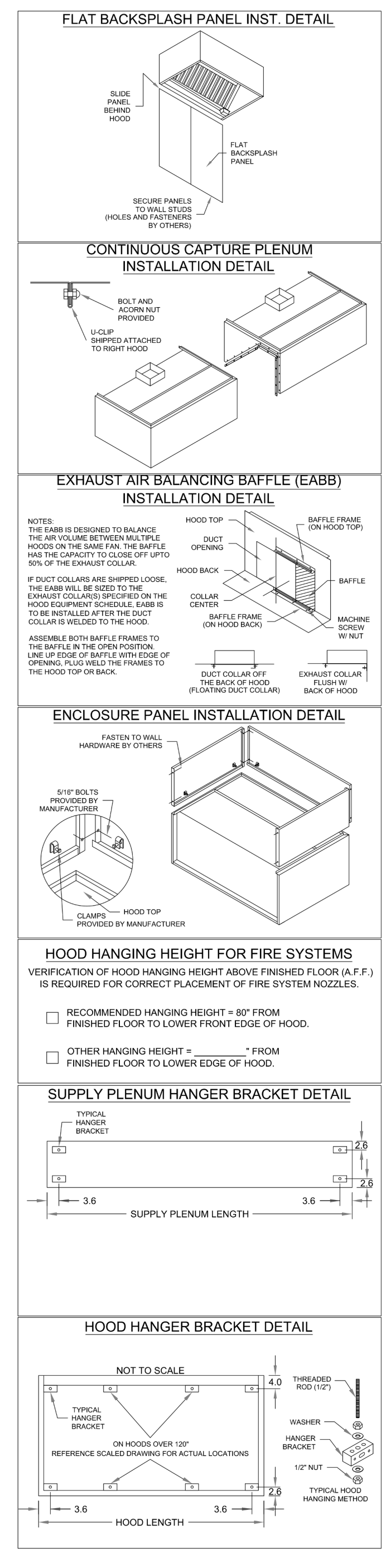
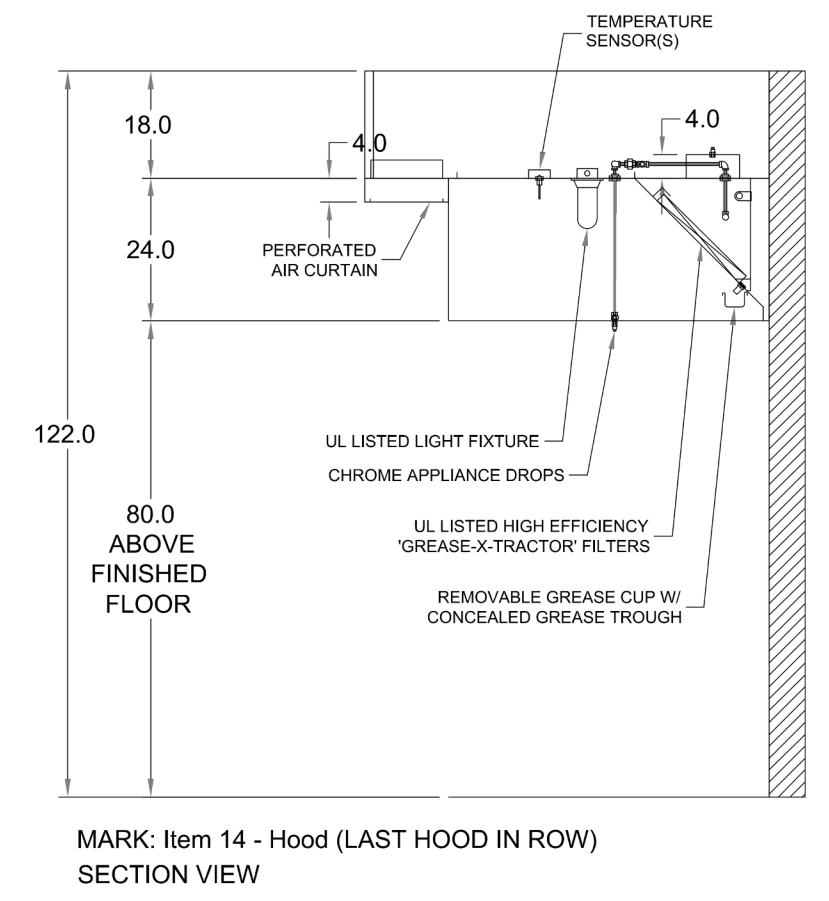
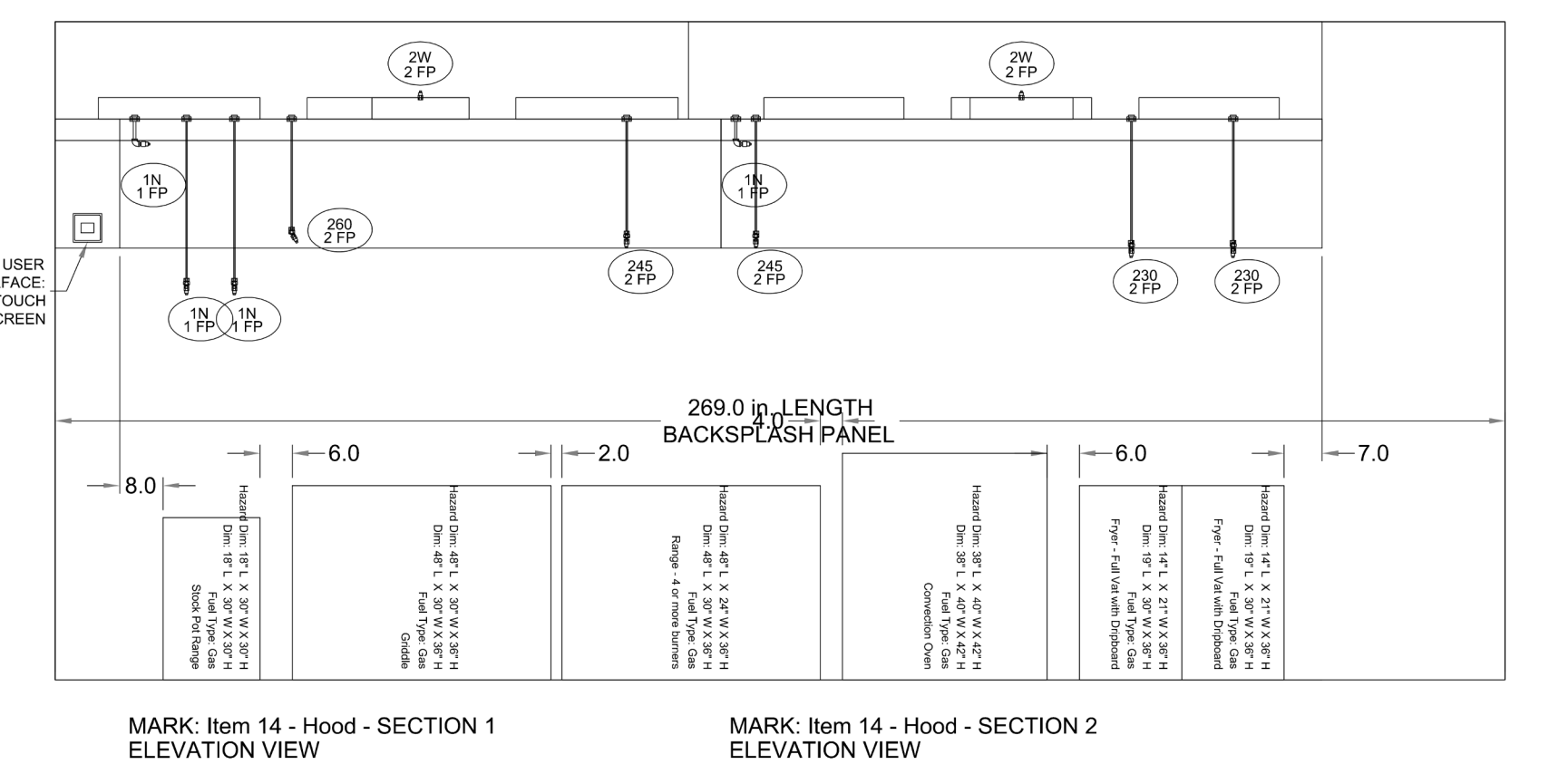
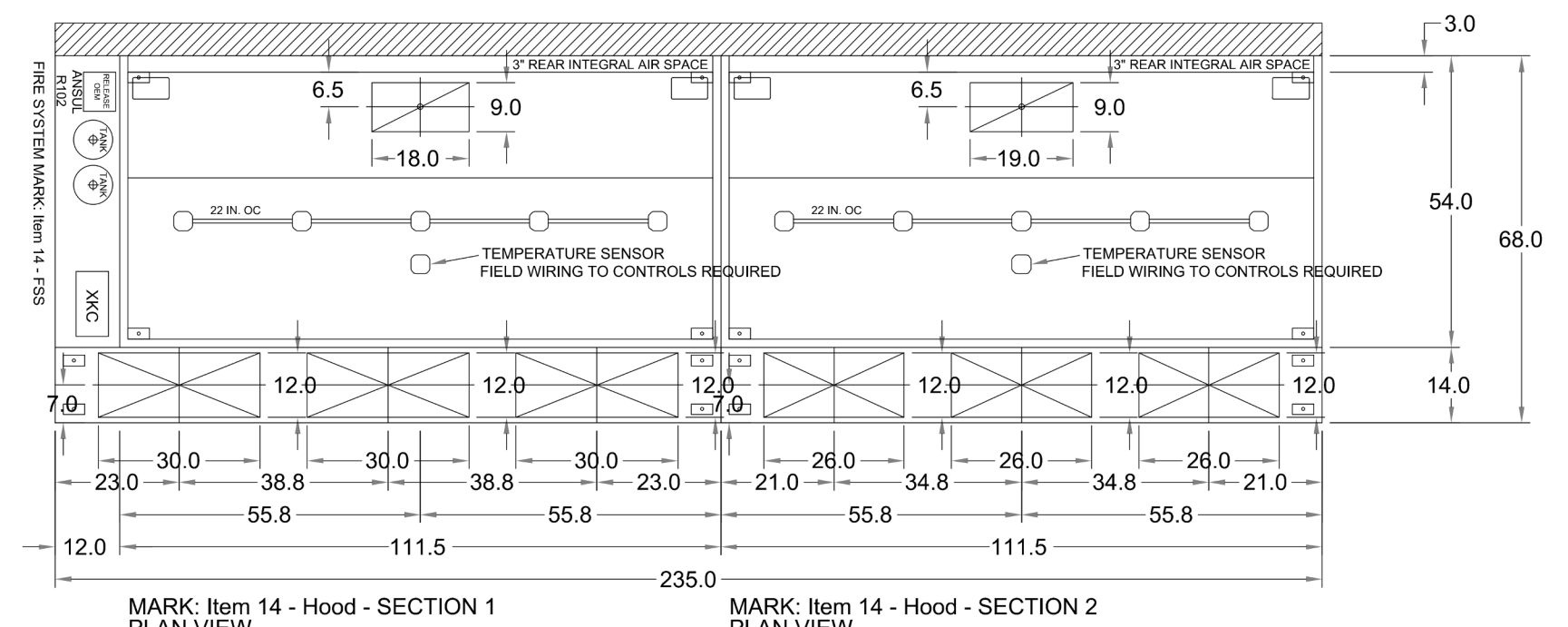
| HOOD INFORMATION | | | | | | | | | | | | | | | | |
|------------------|----------------|--------------|-----------------------|-------|--------|----------------------|----------------------------|-----------|-------------------|--------|------|-------|--------|---------|---------------------|------------------|
| HOOD NO. | MARK | MODEL | HOOD DIMENSIONS (IN.) | | | HOOD CONSTR. | COOKING LOAD / DUTY RATING | TOTAL CFM | EXHAUST COLLAR(S) | | | | SUPPLY | | HANGING WEIGHT LBS. | SECTION LOCATION |
| | | | LENGTH | WIDTH | HEIGHT | | | | WIDTH | LENGTH | DIA. | CFM | S.P. | MUA CFM | | |
| 1 | ITEM 14 - HOOD | XXEW-111.5-S | 111.5 | 54 | 24 | 430 SS WHERE EXPOSED | HEAVY | 1860 | 9 | 18 | 1860 | 0.606 | 1800 | | 598 | LEFT |
| 2 | ITEM 14 - HOOD | XXEW-111.5-S | 111.5 | 54 | 24 | 430 SS WHERE EXPOSED | HEAVY | 1950 | 9 | 19 | 1950 | 0.629 | 1625 | | 370 | RIGHT |

| HOOD INFORMATION | | | | | | | | | | | | | | | |
|------------------|----------------|----------------------|----------------------------|-----|--------------|----------------------------------|-----------------|-----|------------|--------------------|-------------|------|------|-------------|-----------|
| HOOD NO. | MARK | LIGHTING DETAILS | | | | GREASE FILTRATION DETAILS | | | | UTILITY CABINET(S) | | | | CONTROLS | |
| | | FIXTURE TYPE | BULB / LAMP INFO | QTY | FOOT CANDLES | TYPE / MODEL | MATERIAL | QTY | SIZE (IN.) | LOCATION | FIRE SYSTEM | TYPE | SIZE | MODEL | INTERFACE |
| 1 | ITEM 14 - HOOD | INCANDESCENT (GLOBE) | 100W A19 (BULBS NOT INCL.) | 5 | 47.97 | X-TRACTOR (SPARK ARRESTOR INCL.) | STAINLESS STEEL | 3 | 16 20 | LEFT | ANSUL R102 | 6 | XKC | TOUCHSCREEN | |
| 2 | ITEM 14 - HOOD | INCANDESCENT (GLOBE) | 100W A19 (BULBS NOT INCL.) | 5 | 47.97 | X-TRACTOR (SPARK ARRESTOR INCL.) | STAINLESS STEEL | 3 | 16 20 | | | | | | |

| SUPPLY PLENUM INFORMATION | | | | | | | | | | | | | | | | |
|---------------------------|----------------|-------|------|------------|---|-----------|-----------|--------------|------|-----------|------------|---------|----------|------|-----|-----|
| HOOD NO. | MARK | POS. | TYPE | SIZE (IN.) | | INSULATED | DAMPER(S) | LED LIGHT(S) | | TOTAL CFM | TOTAL S.P. | COLLARS | | VEL. | | |
| | | | | L | H | | | SUPPLIED | QTY | | | TYPE | MOUNTING | | QTY | W |
| 1 | ITEM 14 - HOOD | FRONT | ASP | 123.5 | 4 | YES | YES | NO | 1800 | 0.01 | MUA | FACTORY | 3 | 1230 | 600 | 240 |
| 2 | ITEM 14 - HOOD | FRONT | ASP | 111.5 | 4 | YES | YES | NO | 1625 | 0.01 | MUA | FACTORY | 3 | 1226 | 542 | 250 |

HOOD OPTIONS

- UL 710 LISTED W/ OUT EXHAUST FIRE DAMPER - UL #R25625
- BACK INTEGRAL AIR SPACE - 3 IN WIDE
- 18 IN HIGH CEILING ENCLOSURES - FRONT LEFT RIGHT - FIELD INSTALLED
- CONTINUOUS CAPTURE
- FACTORY MOUNTED EXHAUST COLLAR(S)
- EXHAUST AIR BALANCING BAFFLE(S) - (EABB)
- BACKSPLASH 122.00 IN HIGH 269.00 IN LONG
- PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY
- STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH



ACCUREX
 PROJECT: 2323274
 PROJECT DATE: 04/15/2024
 PROJECT LOCATION: MARIACHIS - LANCASTER SC
 PROJECT CONTACT: ACCUREX CENTRAL FLORIDA - 2724 ANTHONY BEHRENDT@ACCUREX.COM (414)989-6664

MARIACHIS
 LANCASTER, SC
 CONSTRUCTION DOCUMENTS

| | |
|---|------------------|
| PROJECT NUMBER: 23 23274 | |
| DATE: 04/15/2024 | SCALE: NTS |
| DRAWN BY: RN | APPROVED BY: APP |
| SHEET TITLE: MANUFACTURER SHOP DRAWINGS | |
| SHEET NUMBER: QF701 | |

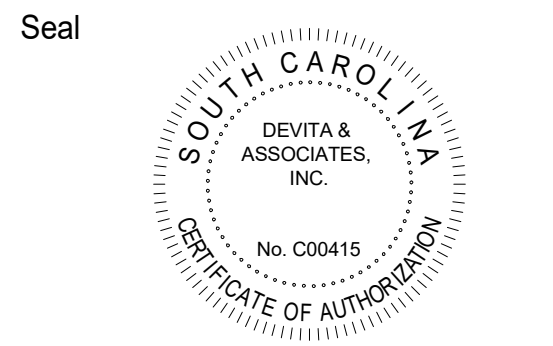
2801 S. VALLEY PARKWAY
SUITE 200
LEWISVILLE, TX 75067

trismarkusa.com

This document contains confidential information, is an instrument of a professional service, and the property of TriMark. It shall not be used on other projects or for the extension of this project without TriMark's written approval.

Owner and all Contractors to check and verify existing dimensions and conditions in the field before starting construction and to notify TriMark of any material or detail changes.

| REVISIONS | | |
|-----------|-----|-------------|
| DATE | NO. | DESCRIPTION |
| | | |



FOR INFORMATION ONLY

DP3
ARCHITECTS

DP3 Architects, Ltd.
15 South Main Street, Suite 400
Greenville, SC 29601
864.232.6200
www.DP3architects.com

Project

MARIACHIS RESTAURANT LANCASTER, SC

Project Number: 23213
Drawn By: WJS
Checked By: KFM
Date: Issue Date

Revisions

Drawing

MECHANICAL HOOD DRAWINGS

M3.0

THIS DOCUMENT WAS ORIGINALLY PRINTED ON A 36" x 42" SIZE SHEET

Copyright: These Drawings are the property of DP3 Architects, Ltd., and reuse on any other project without written permission will result in legal action.

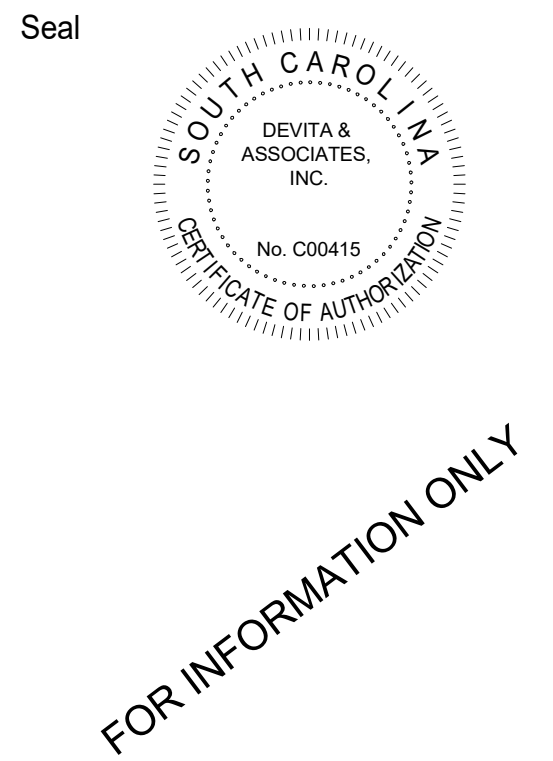


2801 S. VALLEY PARKWAY
SUITE 200
LEWISVILLE, TX 75067

trimarkusa.com

This document contains confidential information, is an instrument of a professional service, and the property of TriMark. It shall not be used on other projects or for the extension of this project without TriMark's written approval.

Owner and all Contractors to check and verify existing dimensions and conditions in the field before starting construction and to notify TriMark of any material or detail changes.



FOR INFORMATION ONLY



DP3 Architects, Ltd.
15 South Main Street, Suite 400
Greenville, SC 29601
864.232.6200
www.DP3architects.com

Project

MARIACHIS RESTAURANT
LANCASTER, SC

Project Number 23213
Drawn By WJS
Checked By KFM
Date Issue Date

Revisions

Drawing

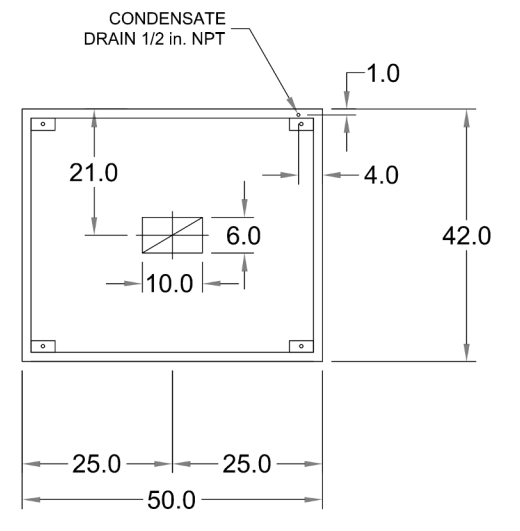
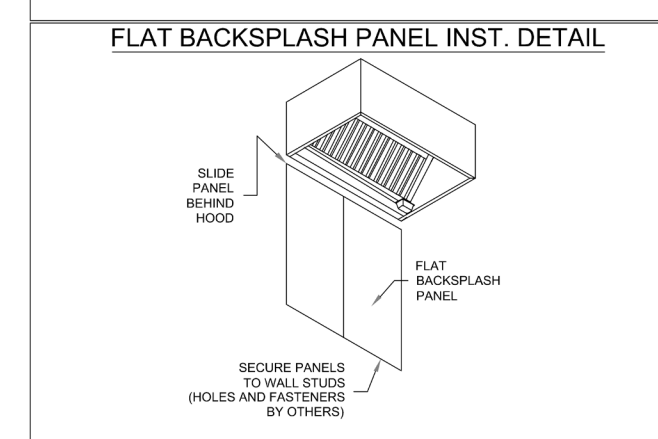
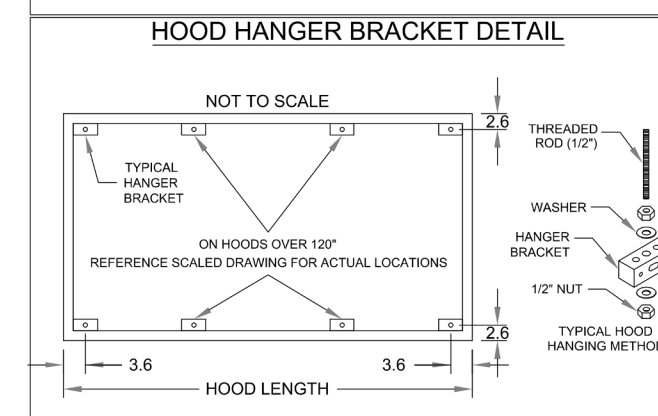
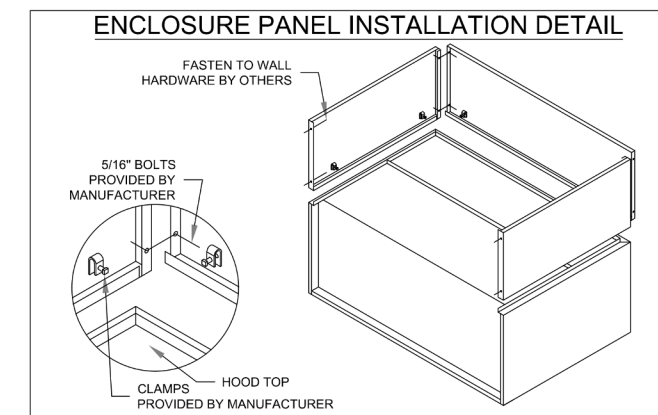
MECHANICAL HOOD DRAWINGS

M3.1

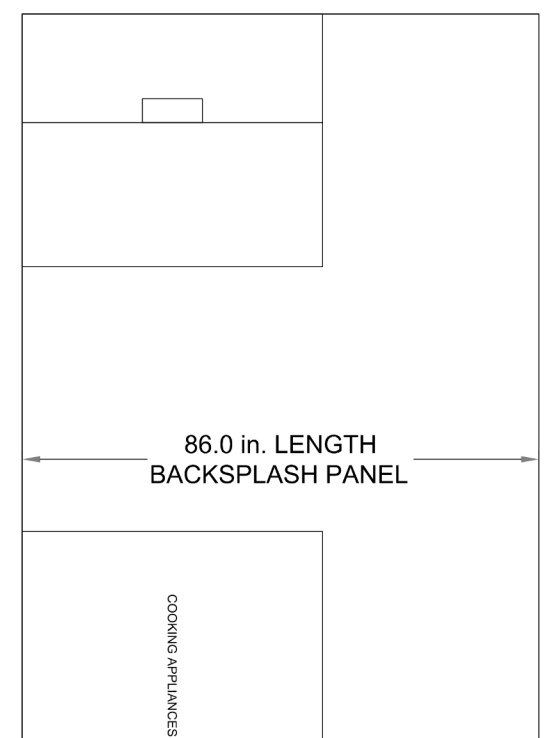
| HOOD INFORMATION | | | | | | | | | | | | | | | | | |
|------------------|----------------|----------|-----------------------|-------|--------|--------------|----------------------------|-----------|-------------------|--------|------|--------|------|---------------------|------------------|---------|--------|
| HOOD NO. | MARK | MODEL | HOOD DIMENSIONS (IN.) | | | HOOD CONSTR. | COOKING LOAD / DUTY RATING | TOTAL CFM | EXHAUST COLLAR(S) | | | SUPPLY | | HANGING WEIGHT LBS. | SECTION LOCATION | | |
| | | | LENGTH | WIDTH | HEIGHT | | | | WIDTH | LENGTH | DIA. | CFM | S.P. | | | MUA CFM | AC CFM |
| 1 | ITEM 41 - HOOD | XD1-50-S | 50.00 | 42 | 24 | 430 SS 100% | | 625.0 | 6 | 10 | | 625 | 0.27 | | | 91 | SINGLE |

| HOOD INFORMATION | | | | | | | | | | | | | | | | | |
|------------------|----------------|------------------|-----|--------------|---------------------------|-----|------------|--------------------|------------------|------|-------|--------------------|--|--|--|--|--|
| HOOD NO. | MARK | LIGHTING DETAILS | | | BAFFLE FILTRATION DETAILS | | | UTILITY CABINET(S) | | | | | | | | | |
| | | FIXTURE TYPE | QTY | FOOT CANDLES | TYPE / MODEL | QTY | SIZE (IN.) | LOCATION | FIRE SYSTEM TYPE | SIZE | MODEL | CONTROLS INTERFACE | | | | | |
| 1 | ITEM 41 - HOOD | | | | | | | | | | | | | | | | |

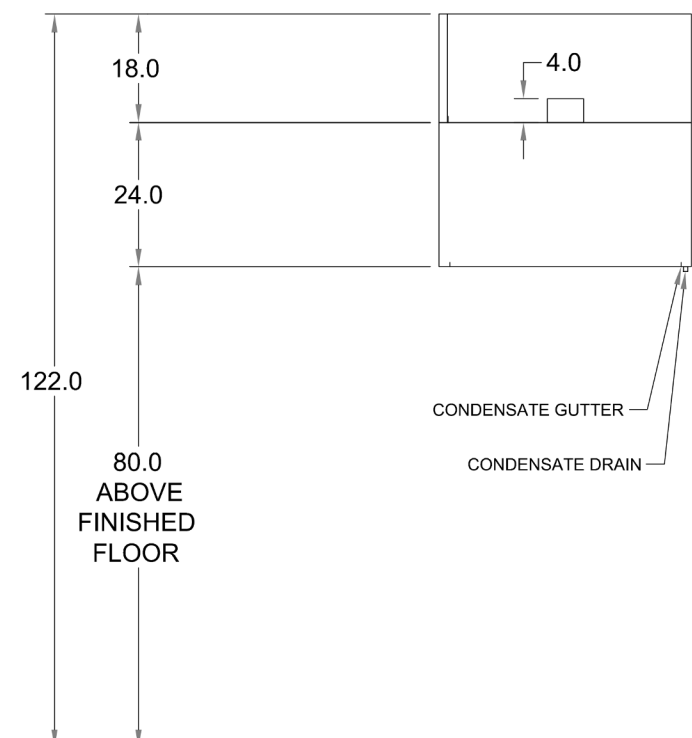
HOOD OPTIONS
18 IN HIGH CEILING ENCLOSURES - FRONT LEFT RIGHT - FIELD INSTALLED
FACTORY MOUNTED EXHAUST COLLAR(S)
BACKSPLASH 122.00 IN HIGH 86.00 IN LONG



MARK: Item 41 - Hood - SECTION 1
PLAN VIEW



MARK: Item 41 - Hood - SECTION 1
ELEVATION VIEW



MARK: Item 41 - Hood
SECTION VIEW

PROJECT: 2/22/2024
MARIACHIS - LANCASTER SC
ITEM 41 - HOOD
ACCUREX CENTRAL FLORIDA - 2724
ANTHONY BEHRENDT@ACCUREX.COM
ANTHONY.BEHRENDT@ACCUREX.COM
(414)899-0664
ACCUREX

MARIACHIS
LANCASTER, SC
CONSTRUCTION DOCUMENTS

| | |
|-----------------|------------|
| PROJECT NUMBER: | 23.23274 |
| DATE: | 04/15/2024 |
| SCALE: | NTS |
| DRAWN BY: | RN |
| APPROVED BY: | APP |

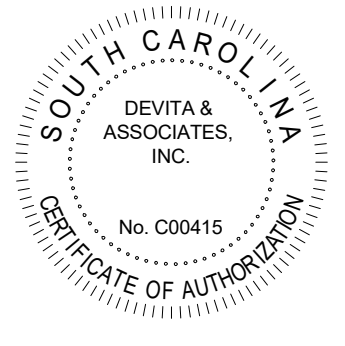
SHEET TITLE:
MANUFACTURER SHOP DRAWINGS

SHEET NUMBER:
QF702

THIS DOCUMENT WAS ORIGINALLY PRINTED ON A 3" x 4" SIZE SHEET

Copyright: These Drawings are the property of DP3 Architects, Ltd., and reuse on any other project without written permission will result in legal action.

Seal



FOR INFORMATION ONLY



DP3 Architects, Ltd.
15 South Main Street, Suite 400
Greenville, SC 29601
864.232.6200
www.DP3architects.com

Project

MARIACHIS RESTAURANT
LANCASTER, SC


Project Number 23213
Drawn By WJS
Checked By KFM
Date Issue Date

Revisions

Drawing

MECHANICAL HOOD DRAWINGS

M3.2



2801 S. VALLEY PARKWAY
SUITE 200
LEWISVILLE, TX 75067

trimarkusa.com

This document contains confidential information, is an instrument of a professional service, and the property of TriMark. It shall not be used on other projects or for the extension of this project without TriMark's written approval.

Owner and all Contractors to check and verify existing dimensions and conditions in the field before starting construction and to notify TriMark of any material or detail changes.

| REVISIONS | | |
|-----------|-----|-------------|
| DATE | NO. | DESCRIPTION |
| | | |
| | | |

PROJECT: 2/22/2024

ACCUREX CENTRAL FLORIDA 2724
VALLEY BLVD. GREENVILLE, SC
ANTHONY J. BISHOP, PROJECT MANAGER
(414)899-6664

MARIACHIS - LANCASTER SC

ITEM 14 - FSS

ACCUREX

MARIACHIS'S
LANCASTER, SC

CONSTRUCTION DOCUMENTS

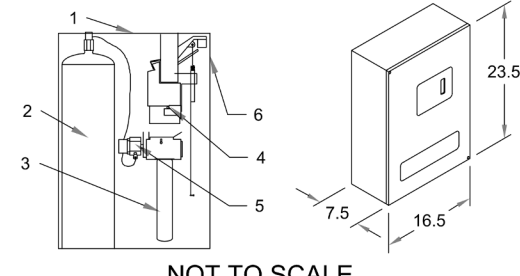
| | |
|--|---------------------|
| PROJECT NUMBER: 23.23274 | |
| DATE: 04/15/2024 | |
| SCALE: NTS | |
| DRAWN BY: RN | APPROVED BY: APP |
| SHEET TITLE: MANUFACTURER SHOP DRAWINGS | |
| SHEET NUMBER: QF703 | |

THIS DOCUMENT WAS ORIGINALLY PRINTED ON A 30" x 40" SIZE SHEET

ANSUL R102 (WET CHEMICAL) FIRE PROTECTION SYSTEM - MODEL FSSC

CONTROL PANEL

- STAINLESS STEEL ENCLOSURE
- RESERVE STORAGE TANK
- EXPIRANT GAS CARTRIDGE
- HOOD DOWN RELEASE
- HOOD UP
- KNOCKOUT FOR WIRING MICROSWITCH

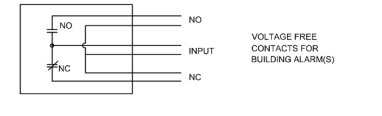


NOT TO SCALE

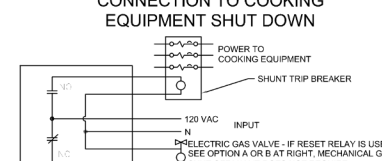
WIRING DIAGRAMS
WDPDT MICRO SWITCH

WDPDT SWITCHES PROVIDED BY MANUFACTURER MAY BE WIRED PER TYPICAL EXAMPLES SHOWN, VERIFY WITH LOCAL CODES AND EQUIPMENT SUPPLIED BY THE CONNECTION NEEDED FOR YOUR INSTALLATION.

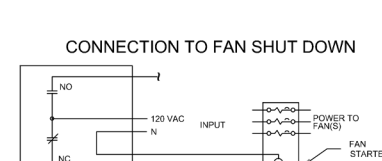
CONNECTION TO BUILDINGS ALARM



CONNECTION TO COOKING EQUIPMENT SHUT DOWN



CONNECTION TO FAN SHUT DOWN



NOTES:

WET CHEMICAL FIRE PROTECTION SYSTEM TO BE ANSUL R-102, DESIGNED IN COMPLIANCE WITH UL 300 REQUIREMENTS.

VERIFICATION OF ALL COOKING EQUIPMENT MAKE, MODEL AND LOCATION REQUIRED FOR ALL FIRE PROTECTION SYSTEMS.

ALL FIRE SYSTEM PIPING IS STANDARDLY TO THE RIGHT END OF THE HOOD UNLESS A WALL IS LOCATED ON THE RIGHT END.

ANSUL AUTOM RELEASE TO BE LOCATED WITHIN 60" OF HOOD.

THE BASIC FIRE SYSTEM WILL INCLUDE THE FOLLOWING:

- GAS SHUT-OFF VALVE, IF REQUIRED, TO BE SUPPLIED BY MANUFACTURER UP TO 2" DIAMETER AS STANDARD, AND INSTALLED BY A LICENSED PLUMBER.
- MICRO SWITCH TO BE SUPPLIED BY MANUFACTURER FOR CONNECTION TO, BUT NOT LIMITED TO, BUILDING ALARM SYSTEMS, EXHAUST AND SUPPLY FANS AND ELECTRICAL POWER SHUT DOWN. FIELD WIRING AND CONNECTIONS TO BE PERFORMED BY A LICENSED ELECTRICIAN.

THE BASIC FIRE SYSTEM DOES NOT INCLUDE THE FOLLOWING:

- FULL DUMP TEST OTHER THAN WHAT IS SPECIFIED PER THE INSTALLATION MANUAL, OR TO SATISFY A STATE OR LOCAL CODE. PERMIT AND TESTING FEES ARE NOT INCLUDED UNLESS NOTED UNDER THE EQUIPMENT SCHEDULE FOR THE FIRE SYSTEM.
- MORE THAN TWO TRIPS TO THE JOBSITE OR SPECIAL TRANSPORTATION, OR OVERNIGHT LOCKING REQUIREMENTS IN REMOTE AREAS. NORMAL TRAVEL DISTANCE IS FIRST 90 MI. (90.9 KM) FROM OFFICE.
- SPECIAL CLASSES OR ADDITIONAL LABOR FOR ACCESS TO SECURITY SENSITIVE AREAS.
- INSTALLATION OF GAS SHUT-OFF VALVE.
- SPECIAL DRAWINGS REQUIRED TO SATISFY STATE OR LOCAL CODE. PLAN EXAMINATION FEES, PE OR FE APPROVAL STAMP.
- UNION LABOR, GOVERNMENT LABOR, OR PREVAILING WAGES REQUIRED FOR FINAL FIELD HOOD-UP.
- ANY AND ALL ELECTRICAL COMPONENTS/CONNECTIONS REQUIRED TO SHUT DOWN FANS, SHUT OFF DEVICES FOR ELECTRIC COOKING EQUIPMENT (SHORT TRIP BREAKER), OR ACTIVATE AN ALARM SYSTEM, ETC.
- ANY DISMANTLING OR REASSEMBLY REQUIRED TO GAIN ACCESS TO THE FIRE SUPPRESSION PIPING LOCATED ON THE TOP OF THE HOOD.
- ROUGH IN HOODS CONDUIT FOR REMOTE PULL STATION OR GAS VALVE (FLUSH MOUNTED PULL STATION).
- INSTALLATION OF MORE THAN 1) REMOTE PULL STATIONS OR DISTANCES GREATER THAN 20 FT (6.1M).
- PARTS OR LABOR REQUIRED TO CORRECT PIPING DUE TO COOKING EQUIPMENT CHANGES OR DEVIATION FROM PLANS, OR ANY CHARGES FOR MISSING OR ADDITIONAL PARTS OTHER THAN THOSE INDICATED ON THE FIRE SUPPRESSION DETAIL.

NOTES:

- 1 - DENOTES FIELD INSTALLATION.
- 2 - DENOTES FACTORY INSTALLATION.
- DO NOT USE BLACK PINE OR DUMP ACTION SWITCH IN NORMAL INSTALLATION. BLACK WIRE TO BE USED ONLY FOR EXTENDED ALARM LIGHT CIRCUITS, ETC.

| FIRE SYSTEM INFORMATION | | | | | | |
|----------------------------------|-----------------------------|--------------------------------------|-------------|--------------|-------------|--------------|
| MARK | MODEL | LOCATION | FLOW POINTS | | SUPPLY LINE | DETECTION |
| | | | HOODS | PCU | | |
| ITEM 14 - FSS | ANSUL R-102 WET CHEMICAL | CABINET - LEFT END OF ITEM 14 - HOOD | 18 UTILIZED | 22 AVAILABLE | CONTINUOUS | FUSIBLE LINK |
| MARK(S) PROTECTED BY FIRE SYSTEM | | | | | | |
| ITEM 14 - HOOD SECTION 1 | | | | | | |
| ITEM 14 - HOOD SECTION 2 | | | | | | |

FIRE SYSTEM OPTIONS AND ACCESSORIES

FULL INSTALLATION (INCLUDES PRE-PIPED HOOD(S) WITH DETECTION AND FACTORY COORDINATED INSTALL)

CHROME SLEEVES FOR FACTORY PROVIDED APPLIANCES DROPS - INCLUDED

METAL BLOW-OFF CAPS - INCLUDED

GAS VALVE - INCLUDED - MECHANICAL SHUTOFF VALVE, 2", (ANSUL) - PART# ANSULMECHSHUTOFFVALVE200

HOOD SUPPRESSION TANK - INCLUDED - 6 GAL. - ((2) 3.0 TANK(S))

REMOTE PULL STATION - STANDARD - FIELD INSTALLATION AT SINGLE POINT OF EGRESS

Copyright: These Drawings are the property of DP3 Architects, Ltd., and reuse on any other project without written permission will result in legal action.

Seal



FOR INFORMATION ONLY



DP3 Architects, Ltd.
15 South Main Street, Suite 400
Greenville, SC 29601
864.232.6200
www.DP3architects.com

Project

MARIACHIS
RESTAURANT
LANCASTER, SC

Project Number 23213
Drawn By WJS
Checked By KFM
Date Issue Date

Revisions

Drawing

MECHANICAL
HOOD DRAWINGS

M3.3



2801 S. VALLEY PARKWAY
SUITE 200
LEWISVILLE, TX 75067

trimarkusa.com

This document contains confidential information, is an instrument of a professional service, and the property of TriMark. It shall not be used on other projects or for the extension of this project without TriMark's written approval.

Owner and all Contractors to check and verify existing dimensions and conditions in the field before starting construction and to notify TriMark of any material or detail changes.

REVISIONS

| DATE | NO. | DESCRIPTION |
|------|-----|-------------|
| | | |
| | | |

MARIACHIS
LANCASTER, SC

CONSTRUCTION DOCUMENTS

| | |
|-----------------|------------|
| PROJECT NUMBER: | 23.23274 |
| DATE: | 04/15/2024 |
| SCALE: | NTS |
| DRAWN BY: | RN |
| APPROVED BY: | APP |

SHEET TITLE:
MANUFACTURER SHOP
DRAWINGS

SHEET NUMBER:
QF704

THIS DOCUMENT WAS ORIGINALLY PRINTED ON A 9" x 4" 1/2" SIZE SHEET

PROJECT
2222/2024

MARK

MARIACHIS - LANCASTER SC

ITEM 14 - KEF

ACCUREX CENTRAL FLORIDA - 2724

ANTHONY.BEHRENDT@ACCUREX.COM

(414) 899-8664

ACCUREX

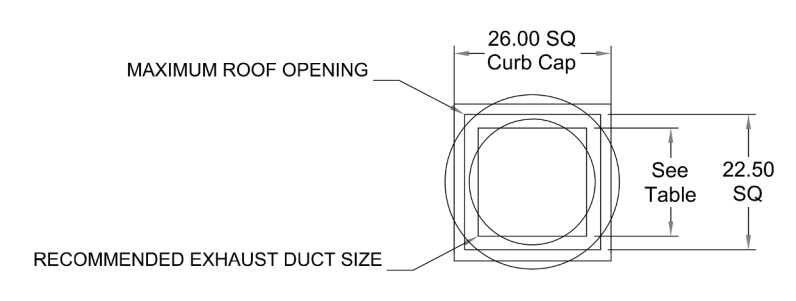
MARIACHIS - LANCASTER SC

Direct Drive Upblast Centrifugal Roof Exhaust Fan

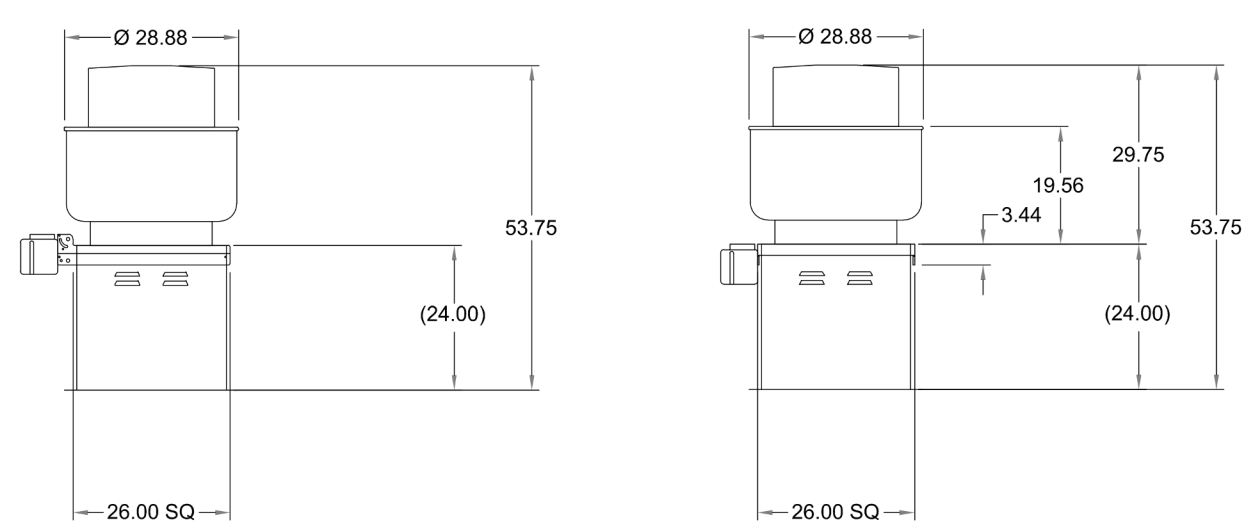
| MARK INFORMATION | | FAN INFORMATION | | | | | | MOTOR INFORMATION | | | | | |
|------------------|---------------|-----------------|--------------|---------------------------|---------|----------------------|--------------|-------------------|----------|-----------|-----------|----------|----------|
| QTY | MARK | MODEL | VOLUME (CFM) | TOTAL EXTERNAL SP (IN WG) | FAN RPM | OPERATING POWER (HP) | WEIGHT (LB.) | SIZE (HP) | V/C/P | ENCLOSURE | MOTOR RPM | WINDINGS | NEC FLA* |
| 1 | Item 14 - KEF | XCUE-160-VG | 3,810 | 1 | 1,599 | 1.55 | 122 | 2 | 208/60/1 | TF | 1725 | 1 | 13.2 |

*NEC FLA - Based on table 430.250 or 430.248 of National Electrical Code 2020. Actual motor FLA may vary for sizing thermal overload, consult factory"

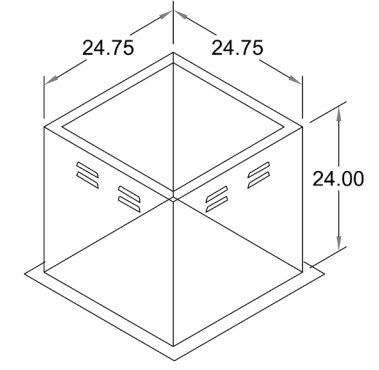
Item 14 - KEF : SELECTED OPTIONS AND ACCESSORIES
 One piece fully welded windband
 Tapered bushing wheel hub
 Breather tube outlet area min. 4.4 sq. in. (sizes 99-480), 2.0 sq. in. (sizes 60-95)
 Min. windband material thickness: 0.051" aluminum (060-240), 0.064" aluminum (240HP, 240XP), 0.080" aluminum (sizes 300-480)
 Larger Curb Cap Size - 26 Square
 UL/cUL 705 Listed - Supplement SC - "Power Ventilators for Restaurant Exh. Appliances" (Formerly UL 762)
 Switch, NEMA-3R, Toggle,
 Hinge, Factory Installed
 High Temp Curb Seal Rated for Continuous Duty at 1500 F (Factory Attached)
 Grease Trap (PN 475538)
 Conduit Chase Qty 1



| DUCT TYPE | SIZE |
|--------------|-------|
| STANDARD | 18 SQ |
| FIRE-WRAPPED | 12 SQ |



DUCT DIMENSIONS ARE LARGEST POSSIBLE DUCT TO FIT THROUGH CURB.
 CONSULT SYSTEM DESIGN ENGINEER FOR RECOMMENDED DUCT SIZE.
 OVERALL HEIGHT MAY BE GREATER DEPENDING ON
 MOTOR, ADAPTER, AND/OR HINGE BASE.



Copyright: These Drawings are the property of DP3 Architects, Ltd., and reuse on any other project without written permission will result in legal action.



2801 S. VALLEY PARKWAY
SUITE 300
LEWISVILLE, TX 75067

trimarkusa.com

This document contains confidential information, is an instrument of a professional service, and the property of TriMark. It shall not be used on other projects or for the extension of this project without TriMark's written approval.

Owner and all Contractors to check and verify existing dimensions and conditions in the field before starting construction and to notify TriMark of any material or detail changes.

Seal



FOR INFORMATION ONLY



DP3 Architects, Ltd.
15 South Main Street, Suite 400
Greenville, SC 29601
864.232.6200
www.DP3architects.com

Project

**MARIACHIS RESTAURANT
LANCASTER, SC**

Project Number: 23213
Drawn By: WJS
Checked By: KFM
Date: Issue Date

Revisions

Drawing

**MECHANICAL
HOOD DRAWINGS**

M3.4

Direct Drive Upblast Centrifugal Roof Exhaust Fan

| MARK INFORMATION | | | FAN INFORMATION | | | | | MOTOR INFORMATION | | | | | |
|------------------|---------------|-------------|-----------------|---------------------------|---------|----------------------|--------------|-------------------|----------|-----------|-----------|----------|----------|
| QTY | MARK | MODEL | VOLUME (CFM) | TOTAL EXTERNAL SP (IN WG) | FAN RPM | OPERATING POWER (HP) | WEIGHT (LB.) | SIZE (HP) | V/C/P | ENCLOSURE | MOTOR RPM | WINDINGS | NEC FLA* |
| 1 | Item 41 - DEF | XCUE-099-VG | 625 | 0.6 | 1,378 | 0.12 | 42 | 0.25 | 115/60/1 | TN | 1725 | 1 | 5.8 |

NEC FLA - Based on table 430.250 or 430.248 of National Electrical Code 2020. Actual motor FLA may vary for sizing thermal overload, consult factory

Item 41 - DEF : SELECTED OPTIONS AND ACCESSORIES

- One piece fully welded windband
- Tapered bushing wheel hub
- Breather tube outlet area min. 4.4 sq. in. (sizes 99-480), 2.0 sq. in. (sizes 60-95)
- Min. windband material thickness: 0.051" aluminum (060-240), 0.064" aluminum (240HP, 240XP), 0.080" aluminum (sizes 300-480)
- Standard Curb Cap Size - 19 Square
- UL/CUL 705 Listed - "Power Ventilators"
- Switch, NEMA-1, Toggle.
- Foam Curb Seal (Factory Applied)
- Damper Shipped Loose, BD-100-PB-12X12, Gravity Operated, Not Coated, Nominal Size
- Conduit Chase Qty 1

MAXIMUM ROOF OPENING

RECOMMENDED EXHAUST DUCT SIZE

| DUCT TYPE | SIZE |
|--------------|-------|
| STANDARD | 12 SQ |
| FIRE-WRAPPED | 8 SQ |

DAMPER

TYP. SECTION VIEW

DUCT DIMENSIONS ARE LARGEST POSSIBLE DUCT TO FIT THROUGH CURB. CONSULT SYSTEM DESIGN ENGINEER FOR RECOMMENDED DUCT SIZE.

OVERALL HEIGHT MAY BE GREATER DEPENDING ON MOTOR, ADAPTER, AND/OR WIND BAND.

PROJECT: 232274

MARK: ACCUREX

MARIACHIS - LANCASTER SC

ITEM 41 - DEF

ACCUREX CENTRAL FLORIDA - 2724
ANTHONY BERRENDT
PH: 803.680.8800
ANTHONY.BERRENDT@ACCUREX.COM
(410)889-8884

ACCUREX

MARIACHI'S
LANCASTER, SC

CONSTRUCTION DOCUMENTS

| | |
|-----------------|------------|
| PROJECT NUMBER: | 23.23274 |
| DATE: | 04/15/2024 |
| SCALE: | NTS |
| DRAWN BY: | RN |
| APPROVED BY: | APP |

SHEET TITLE:
MANUFACTURER SHOP DRAWINGS

SHEET NUMBER:
QF705

THIS DOCUMENT WAS ORIGINALLY PRINTED ON A 31" x 47" SIZE SHEET

Copyright: These Drawings are the property of DP3 Architects, Ltd., and reuse on any other project without written permission will result in legal action.



281 S. VALLEY PARKWAY
SUITE 200
LEWISVILLE, TX 75067

trimarkusa.com

This document contains confidential information, is an instrument of a professional service, and the property of TriMark. It shall not be used on other projects or for the extension of this project without TriMark's written approval.

Owner and all Contractors to check and verify existing dimensions and conditions in the field before starting construction and to notify TriMark of any material or detail changes.

Seal



FOR INFORMATION ONLY



DP3 Architects, Ltd.
15 South Main Street, Suite 400
Greenville, SC 29601
864.232.8200
www.DP3architects.com

Project

MARIACHIS
RESTAURANT
LANCASTER, SC

Project Number 23213
Drawn By WJS
Checked By KFM
Date Issue Date

Revisions

Drawing

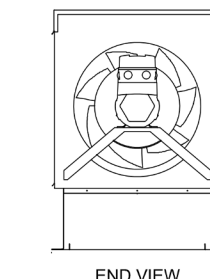
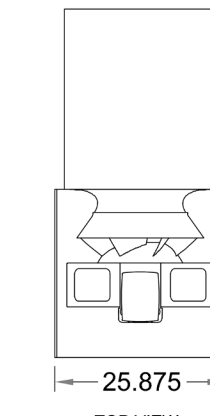
MECHANICAL
HOOD DRAWINGS

M3.5

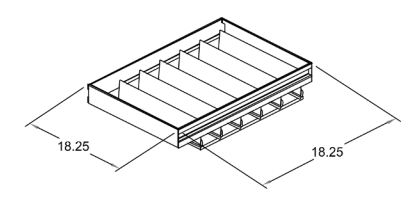
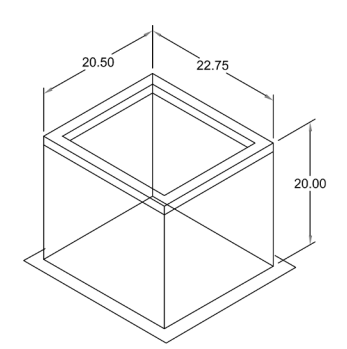
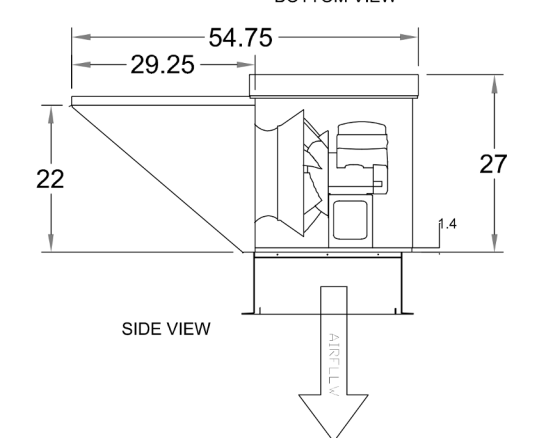
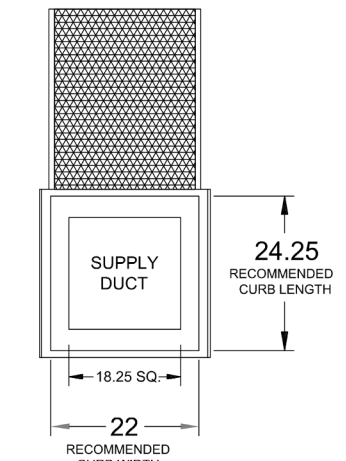
Direct Drive Mixed Flow Filtered Roof Supply Fan

| MARK INFORMATION | | FAN INFORMATION | | | | | MOTOR INFORMATION | | | | | |
|------------------|---------------|-----------------|--------------|---------------------------|---------|----------------------|-------------------|-----------|----------|-----------|-----------|----------|
| QTY | MARK | MODEL | VOLUME (CFM) | TOTAL EXTERNAL SP (IN WG) | FAN RPM | OPERATING POWER (HP) | WEIGHT (LB.) | SIZE (HP) | V/C/P | ENCLOSURE | MOTOR RPM | WINDINGS |
| 1 | Item 14 - MAU | XXKD-15-M2-VG | 3,425 | 0.5 | 1,712 | 1 | 186 | 2 | 208/60/1 | TN | 1750 | 1 |

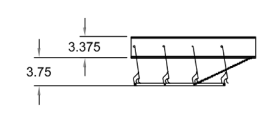
Item 14 - MAU : SELECTED OPTIONS AND ACCESSORIES
Horizontal Weatherhood Intake, Bottom (Curb Mounted) Discharge
UL/cUL 705 Listed - "Power Ventilators"
Switch, NEMA-3R, Toggle, Shipped with Unit,
Damper Shipped Loose, WD-410-PB-18.25X18.25, Gravity Operated, Not Coated
1" Aluminum Primary Filter (PN: 486083), Shipped Separate



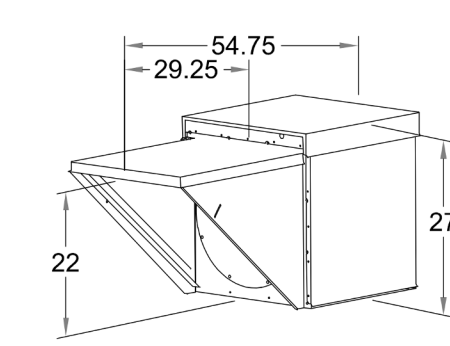
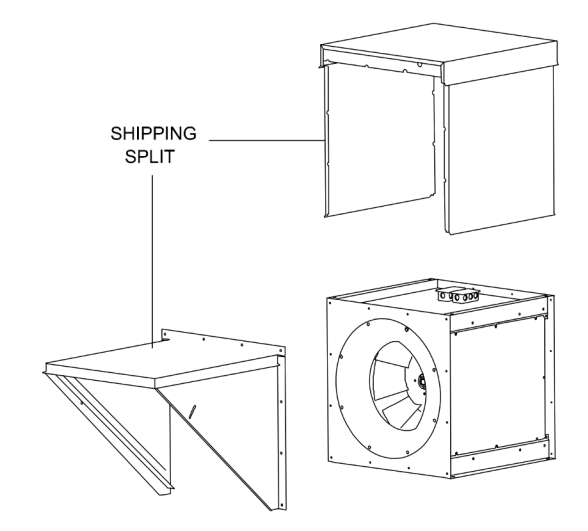
NOT DRAWN TO SCALE



DAMPER



TYP. SECTION VIEW



ACCUREX

ACCUREX CENTRAL FLORIDA - 2724
ANTHONY BEHRENDT
ANTHONY.BEHRENDT@ACCUREX.COM
(414) 858-6664

PROJECT: 232274
MARIACHIS - LANCASTER SC



ITEM 14 - MAU

MARIACHIS
LANCASTER, SC

CONSTRUCTION DOCUMENTS

| | |
|-----------------|------------|
| PROJECT NUMBER: | 23.23274 |
| DATE: | 04/15/2024 |
| SCALE: | NTS |
| DRAWN BY: | RN |
| APPROVED BY: | APP |

SHEET TITLE:
MANUFACTURER SHOP
DRAWINGS

SHEET NUMBER:
QF706

THIS DOCUMENT WAS ORIGINALLY PRINTED ON A 36" x 48" SIZE SHEET

Copyright: These Drawings are the property of DP3 Architects, Ltd., and reuse on any other project without written permission will result in legal action.

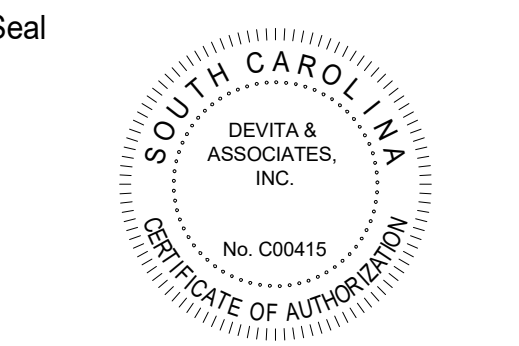


2801 S. VALLEY PARKWAY
SUITE 200
LEWISVILLE, TX 75067

trmarkusa.com

This document contains confidential information, is an instrument of a professional service, and the property of TriMark. It shall not be used on other projects or for the extension of this project without TriMark's written approval.

Owner and all Contractors to check and verify existing dimensions and conditions in the field before starting construction and to notify TriMark of any material or detail changes.



FOR INFORMATION ONLY



DP3 Architects, Ltd.
15 South Main Street, Suite 400
Greenville, SC 29601
864.232.6200
www.DP3architects.com

Project

MARIACHIS RESTAURANT
LANCASTER, SC

Project Number: 23213
Drawn By: WJS
Checked By: KFM
Date: Issue Date

Revisions

Drawing

MECHANICAL
HOOD DRAWINGS

M3.6

| CONTROL INFORMATION | | ELECTRICAL CONTROL PACKAGE | | USER INTERFACE | | FANS CONTROLLED | | | | | | | | | | |
|---------------------|-------------------|--------------------------------|------------------------|--|-------|-----------------|-----|---------------|------|------|----------|------------|-------|-------------|------------------------|--------------|
| MARK | MODEL | LOCATION | TYPE | LOCATION | FAN # | TYPE | FAN | FAN MARK | ZONE | CFM | MOTOR HP | MOTOR VOLT | CYCLE | MOTOR PHASE | MOTOR STARTER IN PANEL | VFD IN PANEL |
| ITEM 14 - CONTROLS | XKC-CV-S-11-2-1-0 | LEFT CABINET ON ITEM 14 - HOOD | FULL COLOR TOUCHSCREEN | CABINET - LEFT CABINET ON ITEM 14 - HOOD | 1 | EXHAUST | E1 | ITEM 14 - KEF | 1 | 3810 | 2 | 208 | 60 | 1 | NO | NO |
| | | | | | 2 | SUPPLY | S1 | ITEM 14 - MAU | 1 | 3425 | 2 | 208 | 60 | 1 | NO | NO |

CONTROL FEATURES

HOOD LIGHT CONTROL
TEMP SENSORS (FACTORY INSTALLED) - QTY. 2
DRY FIRE CONTACTS - QTY. 2
LIGHTS OFF DURING FIRE
EXHAUST MAX DURING FIRE
SUPPLY OFF DURING FIRE



DOC NUMBER: --- REV: ---

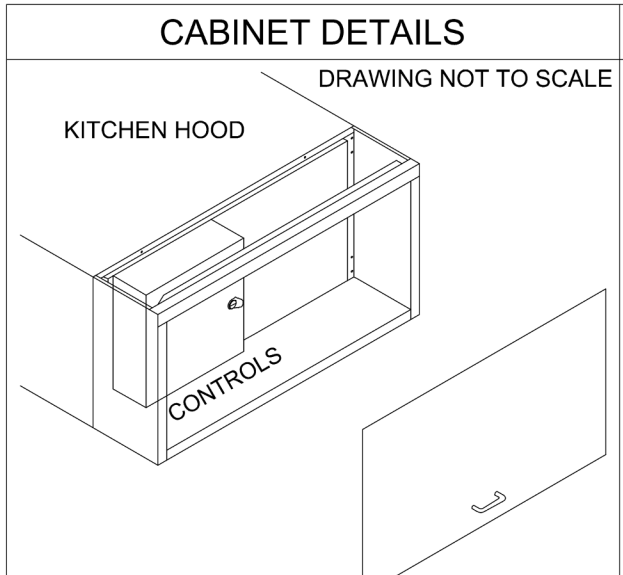
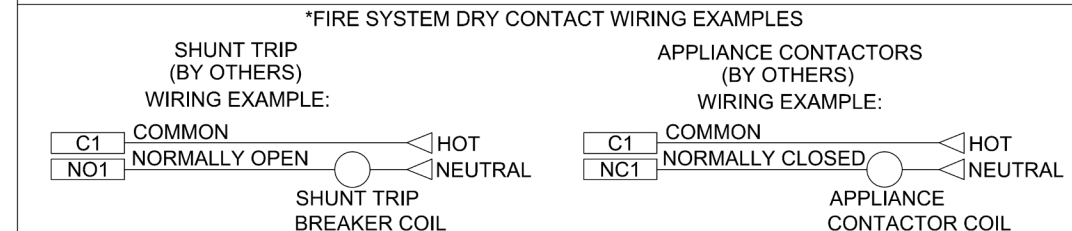
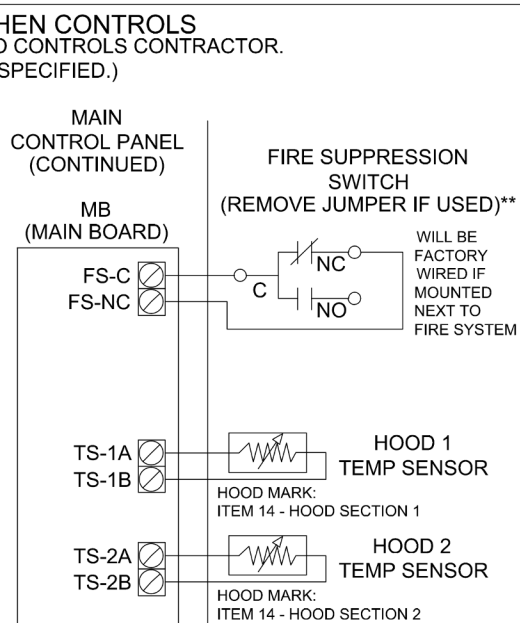
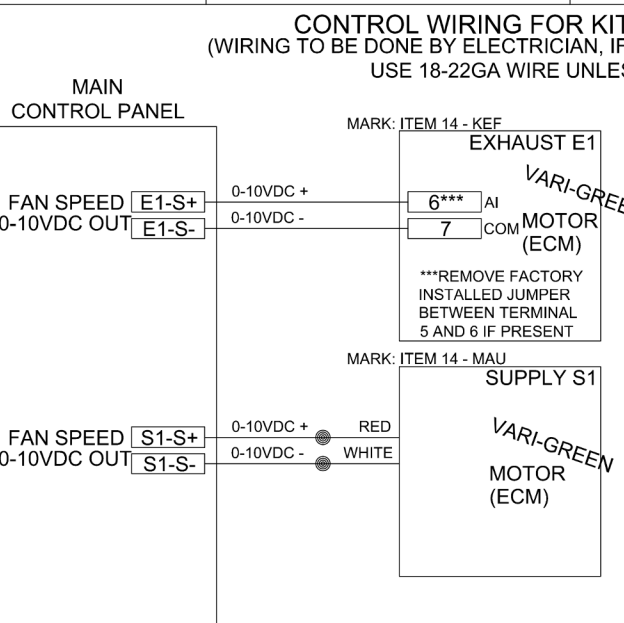
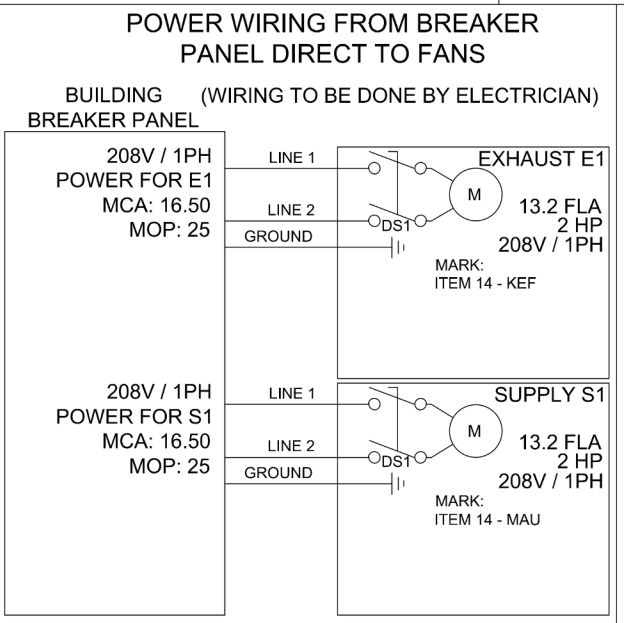
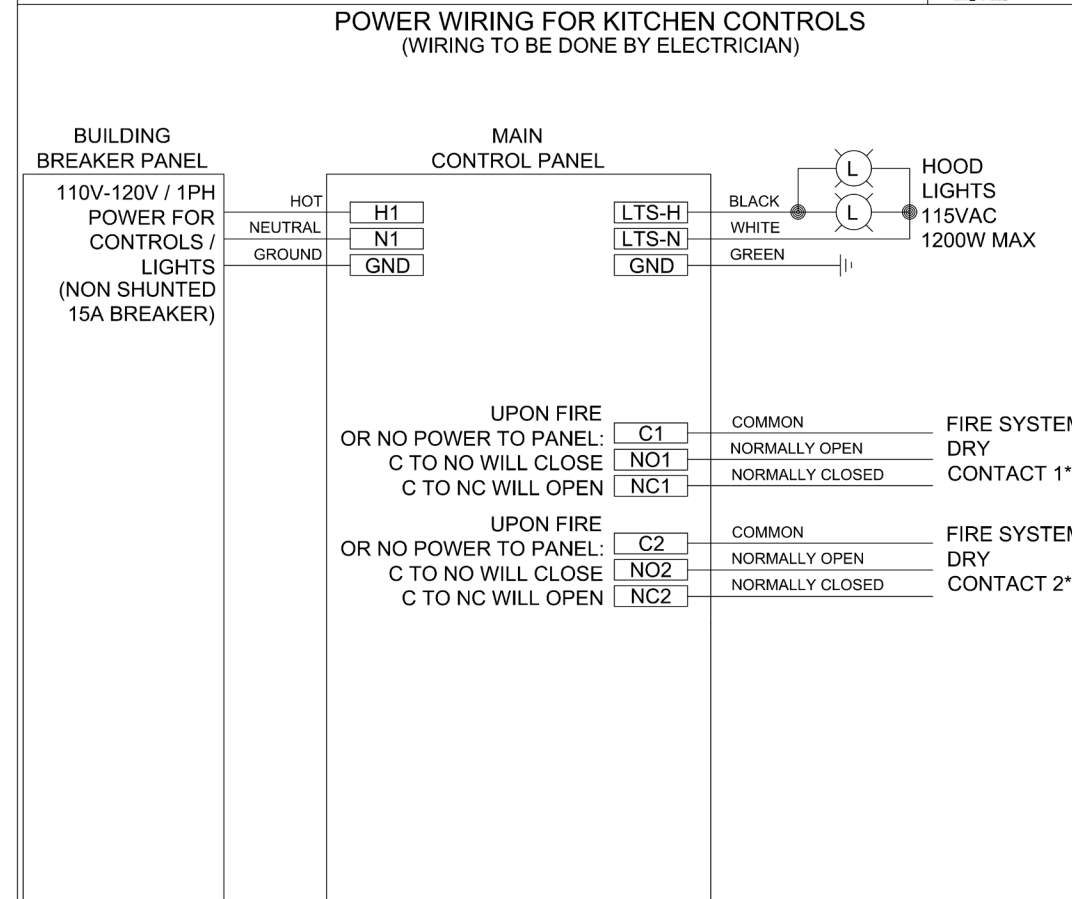
CAUTION
UNIT MUST BE OPERATED IN ACCORDANCE WITH N.E.C. POWER MUST BE OFF WHILE SERVICING.

ATTENTION
L'APPAREIL DOIT ÊTRE MIS À LA TERRE CONFORMÉMENT AU CODE C.E. L'ALIMENTATION DOIT ÊTRE COUPÉE DURANT L'ENTRETIEN.

COMMERCIAL APPLIANCE OUTLET CENTER
ELECTRICAL RATINGS: 110-240V, 1PHASE, 50-60HZ, 15A
BASE FILE #E200616, ML FILE #E313951

NE PAS RETIRER CES DESSINS DE CET ÉQUIPEMENT SAUF INDICATION CONTRAIRE. UTILISER DES CONDUCTEURS EN CÂBLE CLASSE ET "SERRE" LES BORNES DE COMMANDE ET DE MISE À LA TERRE À L.B.P.D. SERRER LES COSSÉS NE DRAMATISATION AUX COUPES INDICQUES POUR LE COMPOSANT. SERRER LES BORNES À VIS DE LA CARTE DE COMMANDE À L.B.P.D. LA RÉGISTRE PAR UN CHANGEMENT COMMERCIAL NE DOIT PAS DÉPASSER 0.1 OHM POUR L'IL D'INFORMATION, CONSULTER LE MANUEL D'APPLIQUER 1-800-371-6669

WIRING DIAGRAM CODE: WDC#
JOB NAME: MARIACHIS - LANCASTER SC
MODEL: XKC-CV-S-11-2-1-0
SERIAL NUMBER: WDSN#
MARK: ITEM 14 - CONTROLS



USER INTERFACE DETAILS

MOUNTING TYPE:
FACTORY MOUNTED:
UTILITY CABINET - LEFT END OF HOOD

USER INTERFACE CONTROL FANS AND LIGHTS

INTERFACE CABLE LENGTH 7FT (FACTORY PROVIDED)

MOUNTING LOCATION:
UTILITY CABINET ON HOOD (INNER CONTROL BOX: 12 X 20 X 6)

NOTES:
1) WHEN CONTROLS ARE MOUNTED IN HOOD-MOUNTED OR WALL-MOUNTED UTILITY CABINET, FOR HOOD OR WALL CABINET DIMENSIONS SEE HOOD SUBMITTAL.
2) MINIMUM OF 36" OF CLEARANCE RECOMMENDED IN FRONT OF CONTROL CABINET

| ZONE # | ZONE | ROOM TEMP |
|--------|------|-----------|
| 1 | Z1 | PRESET |

| HOOD # | HOOD | HOOD MARK | ZONE | EXHAUST | SUPPLY | MB TEMP SENSORS | HC |
|--------|------|--------------------------|------|---------|--------|-----------------|----|
| 1 | H1 | ITEM 14 - HOOD SECTION 1 | Z1 | E1 | S1 | TS1 | NO |
| 2 | H2 | ITEM 14 - HOOD SECTION 2 | Z1 | E1 | S1 | TS2 | NO |

| FAN # | TYPE | FAN | FAN MARK | ZONE | MIN CFM | MAX CFM | MIN VFD | MAX VFD | MIN VFD | MAX VFD |
|-------|---------|-----|---------------|------|---------|---------|---------|---------|---------|---------|
| 1 | EXHAUST | E1 | ITEM 14 - KEF | Z1 | - | 3810 | NO | - | - | 10.0 |
| 2 | SUPPLY | S1 | ITEM 14 - MAU | Z1 | - | 3425 | NO | - | - | 10.0 |

PROJECT: 232274
 MARIACHIS - LANCASTER SC
 ACCUREX CENTRAL FLORIDA - 2724
 ANTHONY BEHRENDT
 ANTHONY.BEHRENDT@ACCUREX.COM
 (414)899-6664
ACCUREX

MARIACHIS
 LANCASTER, SC

CONSTRUCTION DOCUMENTS

| | |
|-----------------|----------------------------|
| PROJECT NUMBER: | 23.23274 |
| DATE: | 04/15/2024 |
| SCALE: | NTS |
| DRAWN BY: | RN |
| APPROVED BY: | APP |
| SHEET TITLE: | MANUFACTURER SHOP DRAWINGS |
| SHEET NUMBER: | QF707 |

THIS DOCUMENT WAS ORIGINALLY PRINTED ON A 9" X 4" SIZE SHEET