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REV	DATE	DESCRIPTION
-	28 Nov. 2023	Final Review, G.C. Bldg, Building Dept. Review/ Permit Filing

PROJECT:
 FIVE GUYS BURGERS & FRIES
 STORE No.
 BUILDING No. 2
 1229 - 1241 MARTIN LUTHER KING BLVD.
 FAYETTEVILLE, ARKANSAS 70721

DRAWING TITLE
MECHANICAL LEGEND & NOTES

DATE: 11/28/2023 3:28:17 PM
 PROJECT No.: 2304201
 DRAWN BY: JHH
 CHECKED BY: PJW

RA / PE SEAL:

MO.0
 1 OF 13 SHEETS

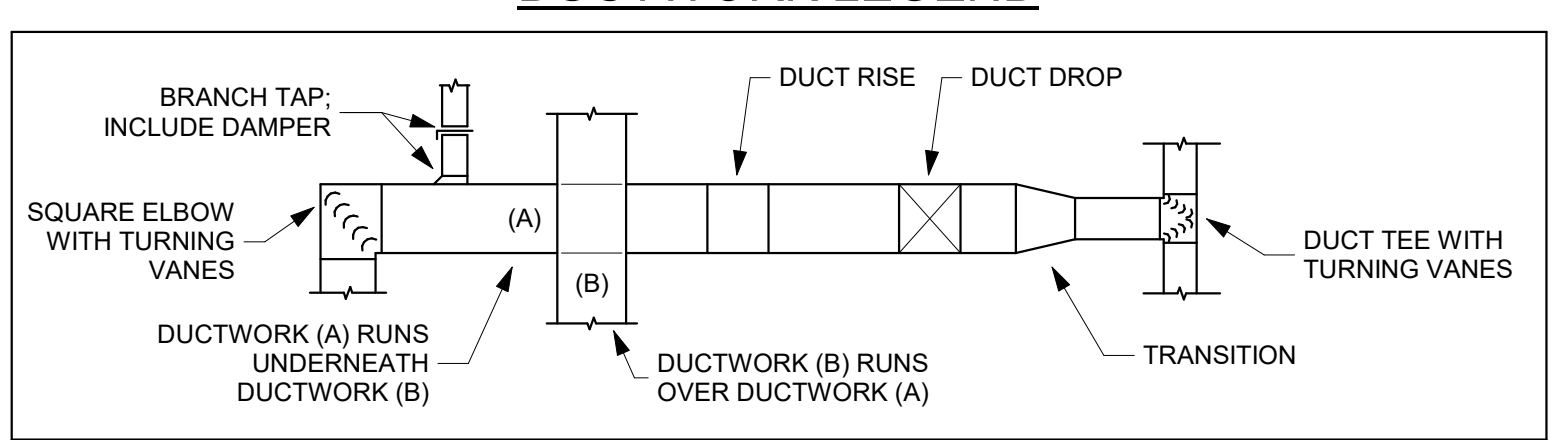
MECHANICAL GENERAL NOTES

- ALL WORK SHALL COMPLY WITH THE LATEST APPLICABLE CODES INCLUDING, BUT NOT LIMITED TO INTERNATIONAL MECHANICAL CODE, INTERNATIONAL PLUMBING CODE, NATIONAL ELECTRIC CODE, NFPA 72, NFPA 90A, AND ALL REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
- CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR THE WITH PROJECT SCOPE AND CONSTRAINTS, UTILITY CONNECTIONS, AND ALL BUILDING SERVICES, PRIOR TO SUBMITTING BID.
- DRAWINGS ARE SCHEMATIC IN NATURE AND MAY NOT BE DRAWN EXACTLY TO SCALE. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXACT ROUTING OF ALL SERVICES WITH SITE CONDITIONS, EXISTING CONDITIONS AND WITH WORK OF ALL OTHER TRADES.
- EQUIPMENT SHOWN ON THE PLANS AND ELEVATIONS ILLUSTRATE THE GENERAL ARRANGEMENT AND SPACE ALLOCATIONS. THE CONTRACTOR SHALL VERIFY THE SPACE REQUIREMENTS FOR EACH SYSTEM COMPONENT USING MANUFACTURER'S CERTIFIED SHOP DRAWINGS AND MAKE THE NECESSARY ADJUSTMENTS IN EQUIPMENT PLACEMENT AND CONNECTION IN ORDER TO ACCOMMODATE THE EXACT EQUIPMENT TO BE INSTALLED. CONTRACTOR SHALL LOCATE EQUIPMENT FOR READY AND SAFE ACCESS FOR FUTURE MAINTENANCE AND REPAIRS.
- DETAILS ILLUSTRATED ON THE DRAWINGS SHALL BE APPLIED IN ALL CASES WHERE THE FEATURE OCCURS IN THE SYSTEM DESIGN.
- CONTRACTOR SHALL COORDINATE WITH ARCHITECT PRIOR TO CUTTING ANY OPENING IN THE STRUCTURE.
- COORDINATE ANY DEVICE REQUIRING AN ACCESS PANEL WITH THE ARCHITECT.
- SUPPORTS, ANCHOR BOLTS, AND HANGERS FOR ALL EQUIPMENT SPECIFIED IN DIVISION 15 SHALL CONFORM TO THE SPECIFICATIONS. MISCELLANEOUS STEEL BRACING SUPPORTS AND REINFORCING STEEL NEEDED TO SUPPORT EQUIPMENT SPECIFIED IN DIVISION 15 SHALL BE FURNISHED AS PART OF SCOPE OF WORK OF DIVISION 15.
- ALL PENETRATIONS THROUGH RATED WALLS, FLOORS, AND PARTITIONS MUST BE INSTALLED TO MEET URL FIRE RESISTANCE LISTING DETAILS FOR THE PENETRATION.
- FIRE/SMOKE DAMPERS SHALL BE INSTALLED IN ALL DUCTWORK PENETRATIONS THROUGH FIRE/SMOKE WALLS, FLOORS, AND MECHANICAL FIRE RATED CHASES. CONTRACTOR SHALL BE RESPONSIBLE FOR THESE DEVICES AT ALL LOCATIONS WHERE DUCT PENETRATES A RATED WALL. FINAL COORDINATION OF THESE DEVICES SHALL BE DETERMINED BY COORDINATING DEVICES WITH ARCHITECTURAL LIFE SAFETY PLAN. DAMPERS SHALL MEET THE RATING OF THE FIRE/SMOKE WALL THAT THE DUCT PENETRATES. ALL DAMPERS SHALL BE "UL" LABELED. REFER TO ARCHITECTURAL DRAWINGS FOR THE LOCATIONS OF ALL FIRE AND SMOKE WALLS. SEE LIFE SAFETY PLAN FOR FIRE AND SMOKE BARRIER RATINGS.
- SMOKE DETECTORS SHALL BE LOCATED AS INDICATED ON THE MECHANICAL PLANS AND IN CONFORMANCE WITH LATEST ADOPTED VERSION OF NFPA 90A, NFPA 72, INTERNATIONAL MECHANICAL CODE AND ALL OTHER REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
- CONTRACTOR SHALL VERIFY CLEARANCE REQUIREMENTS AND ROUTING OF DUCTWORK BEFORE FABRICATION BEGINS, AS DUCT RISES AND DROPS MAY BE NECESSARY DUE TO FIELD CONDITIONS. GENERAL CONTRACTOR TO COORDINATE VARIOUS TRADES FOR SCOPE OF WORK ABOVE CEILING LEVELS. PROVIDE ABOVE-CEILING COORDINATION DRAWING FOR ARCHITECT REVIEW PRIOR TO START OF CEILING, MECHANICAL, ELECTRICAL, AND PLUMBING WORK. SEE LIFE SAFETY PLAN FOR FIRE AND SMOKE BARRIER RATINGS.
- ALL DUCTWORK SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS IN INCHES. REFER TO SPECIFICATIONS AND SPECIFIC NOTES FOR INSULATION REQUIREMENTS.
- PROVIDE ALL SUPPLY AIR AND RETURN AIR DUCT ELBOWS WITH SINGLE THICKNESS TURNING VANES.
- DIFFUSERS, REGISTERS, AND GRILLES SHOWN ON THE MECHANICAL DRAWINGS SHALL BE IN ACCORDANCE WITH THE DIFFUSER AND GRILLE SCHEDULE. BRANCH DUCTS TO AIR DEVICES SHALL BE IN ACCORDANCE WITH THE SCHEDULE UNLESS NOTED OTHERWISE.
- CEILING DIFFUSERS, REGISTERS AND GRILLES SHALL BE LOCATED AS SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLAN. DIFFUSERS, REGISTERS AND GRILLES SHALL BE FURNISHED WITH MOUNTING FRAMES AND FEATURES IN ACCORDANCE WITH THE CEILING TYPE.
- AIR INTAKES SHALL BE MINIMUM 10 FEET FROM ALL EXHAUST FAN OUTLETS, FLUE VENTS, AND PLUMBING VENTS THROUGH ROOF.
- ALL WALL-MOUNTED THERMOSTATS AND CARBON DIOXIDE SENSORS SHALL BE MOUNTED AT 48 INCHES AFF..
- PROVIDE CONDENSATE DRAIN PIPING FROM ALL CHILLED WATER AND DIRECT EXPANSION COOLING COILS. PIPING SHALL BE MINIMUM 2-INCH FOR CHILLED WATER AIR HANDLING UNITS, 1-INCH FOR ROOFTOP UNITS AND 3/4-INCH FOR DUCTLESS SPLIT SYSTEMS.
- ALL ITEMS THAT REQUIRE SERVICE, MAINTENANCE, OR ACCESS SHALL BE HUNG AT A MAXIMUM ELEVATION OF 14'-0" AFF.
- EXISTING SERVICE INDICATED ON THESE DRAWINGS WERE DERIVED FROM EXISTING DRAWINGS AND LIMITED FIELD OBSERVATIONS. THESE DRAWINGS MAY NOT BE ALL INCLUSIVE OF SERVICES THAT EXIST IN THE PROJECT AREA. CONTRACTOR SHALL VERIFY SERVICES, LOCATIONS, TYPE, AND SIZE PRIOR TO ANY BIDDING, PRICING, OR CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK INVOLVING DEMOLITION TIE-INS AND ROUTING CONFLICTS WITH EXISTING CONDITIONS. ANY DEVIATIONS IMPACTING WORK SHOWN ON THESE DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT FOR COORDINATION PRIOR TO BIDDING, PRICING AND CONSTRUCTION.
- CONTRACTOR SHALL VERIFY ALL TIE IN POINTS PRIOR TO BIDDING, PRICING OR START OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DEVIATIONS FOUND PRIOR TO SUBMITTING FINAL PRICING. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REQUIRED DEVIATIONS TO TIE IN POINTS AFTER FINAL PRICING IS SUBMITTED.
- DUCTWORK AND PIPING PLANS ILLUSTRATE THE GENERAL ROUTING OF SYSTEMS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OFFSETS, RISES AND DROPS THAT ARE REQUIRED TO AVOID EXISTING AND NEW PIPING, STRUCTURAL AND ELECTRICAL SYSTEMS.

MECHANICAL SYMBOLS LEGEND

	THERMOSTAT
	TEMPERATURE SENSOR
	SMOKE DETECTOR
	FLEXIBLE DUCT
	VOLUME DAMPER
	FIRE DAMPER
	CEILING SUPPLY AIR DIFFUSER
	3-WAY THROW CEILING SUPPLY AIR DIFFUSER
	CEILING RETURN AIR GRILLE
	SIDEWALL AIR DIFFUSER OR GRILLE
	NEW DUCTWORK
	EXISTING DUCTWORK
	CONDENSATE DRAIN
	GAS PIPING
	PIPE TURNING DOWN
	PIPE TURNING UP
	BALL VALVE
	GATE VALVE
	CONNECTION OF NEW TO EXISTING
	CHECK VALVE
	GAS COCK
	UNION
	PRESSURE GAUGE
	STRAINER
	ABOVE FINISHED FLOOR
	AIR DEVICE #
	CFM
	S - SUPPLY R - RETURN E - EXHAUST

DUCTWORK LEGEND



VENTILATION SCHEDULE

ZONE	OCCUPANCY CATEGORY	ZONE FLOOR AREA A _z (FT ²)	AREA OUTDOOR AIRFLOW RATE R _a (CFM/FT ²)	PEOPLE OUTDOOR AIRFLOW RATE R _p (CFM/PERSON)	OCCUPANT DENSITY (#/1000FT ²)	ZONE POPULATION P _z (PEOPLE)	ZONE AIR EFFECTIVENESS E _z	BREATHING ZONE OUTDOOR AIRFLOW V _{bz} (CFM)	EXHAUST RATE (CFM/FT ²)	REQUIRED EXHAUST AIRFLOW (CFM)	ACTUAL PROVIDED OUTDOOR AIRFLOW (CFM)	ACTUAL PROVIDED EXHAUST AIRFLOW (CFM)	MECHANICAL UNIT
DINING	REST. DINING ROOMS	1,100	0.18	7.5	70	77	1.0	723	0	0	757	0	RTU-1
KITCHEN	KITCHEN (COOKING)	430	0.12	7.5	20	8	1.0	110	0.7	280	288	3,514	RTU-2,EF-1,EF-2
PREP ROOM	STORAGE ROOM	625	0.12	5	5	3	1.0	90	50/FIXTURE	50	244	50	RTU-2, EF-4
M. RESTROOM	TOILETS - PUBLIC	60	0	0	0	0	1.0	0	50/FIXTURE	100	0	100	RTU-2, EF-3
W. RESTROOM	TOILETS - PUBLIC	55	0	0	0	0	1.0	0	50/FIXTURE	50	0	100	RTU-2, EF-3
HALL	CORRIDORS	115	0.06	0	0	0	1.0	7	0	0	18	0	RTU-1
BLDG. TOTAL		2,385				88		930		480	1,307	3764	

DIVISION - 15 MECHANICAL SPECIFICATIONS

GENERAL

A. THE GENERAL CONDITIONS OF THE GENERAL SPECIFICATIONS, ALONG WITH ALL APPLICABLE INSTRUCTIONS TO BIDDERS SHALL FORM A PART OF THIS SECTION OF THE SPECIFICATIONS.

B. REFERENCE IS MADE TO REQUISITES FOR BIDDERS AND CONTRACTORS UNDER OTHER SECTIONS OF THESE SPECIFICATIONS, WHICH SHALL BE CONSIDERED BINDING, UNLESS OTHERWISE NOTED UNDER THIS SECTION.

SCOPE

EACH CONTRACTOR SHALL THOROUGHLY ACQUAINT HIMSELF WITH THE CONSTRUCTION DETAILS, BOTH AS ON TENANT CONSTRUCTION DRAWINGS AND LANDLORD'S AS REFERRED TO, BEFORE SUBMITTING HIS BID AS NO ALLOWANCES WILL BE MADE BECAUSE OF THE CONTRACTOR'S UNFAMILIARITY WITH THESE DETAILS. ALL PERFORMANCE OF CONSTRUCTION SHALL BE AS REQUIRED BY THE PACE OF THE GENERAL CONSTRUCTION.

INSPECTION OF SITE

ALL PROPOSALS SHALL PRECLUDE THAT CONTRACTOR IS FAMILIAR WITH JOB SITE CONDITIONS AND UTILITY LOCATIONS AND THE LACK OF SPECIFIC INFORMATION ON THE DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY.

PERMITS

ALL PERMITS AND LICENSES NECESSARY FOR THE PROPER EXECUTION OF THE WORK SHALL BE SECURED AND PAID FOR BY THE SUBCONTRACTOR INVOLVED.

CODE REQUIREMENTS

ALL WORK UNDER THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS OF THE SPECIFICATIONS, DRAWINGS OR AS DIRECTED BY THE OWNER, AND SHALL SATISFY ALL APPLICABLE CODES, ORDINANCES, OR REGULATIONS OF THE GOVERNING BODIES, WHETHER SO SHOWN OR NOT, AND ALL MODIFICATIONS REQUIRED BY SUCH AUTHORITIES SHALL BE MADE BY THE CONTRACTOR WITHOUT ANY ADDITIONAL COST TO THE OWNER.

MATERIALS AND WORKMANSHIP

A. ALL MANUFACTURED ARTICLES, MATERIALS, AND EQUIPMENT SHALL BE APPLIED AS RECOMMENDED BY THE MANUFACTURERS, AND UNLESS OTHERWISE SPECIFIED SHALL BE NEW, AND FREE FROM ANY DEFECTS. ALL LIKE MATERIALS USED SHALL BE OF THE SAME MANUFACTURE AND QUALITY UNLESS OTHERWISE SPECIFIED.

B. ALL WORK UNDER THIS CONTRACT SHALL BE PERFORMED BY COMPETENT WORKMEN AND EXECUTED IN A NEAT AND WORKMANLIKE MANNER. WORK SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION, AND ON COMPLETION, THE INSTALLATION SHALL BE THOROUGHLY CLEANED AND ALL DEBRIS PRESENT AS A RESULT OF THIS CONTRACT SHALL BE REMOVED FROM THE PREMISES, DO NOT JUST ABANDON.

CODES AND REGULATIONS

EACH SUBCONTRACTOR SHALL COMPLY WITH ALL LAWS, ORDINANCES, RULES AND REGULATIONS BEARING ON THE CONDUCT OF THE WORK AS DRAWN OR SPECIFIED. IF A SUBCONTRACTOR OBSERVES THAT THE DRAWINGS AND SPECIFICATIONS ARE AT A VARIANCE, HE SHALL PROMPTLY NOTIFY THE GENERAL CONTRACTOR AND THE TENANT IN WRITING. IF ANY SUBCONTRACTOR PERFORMS ANY WORK KNOWING IT TO BE CONTRARY TO LAWS, ORDINANCES, RULES AND REGULATIONS AND WITHOUT GIVING SUCH NOTICE, THE SUBCONTRACTOR SHALL BEAR ALL COSTS ARISING THEREFROM.

PROTECTION OF WORK AND PROPERTY

A. EACH SUBCONTRACTOR SHALL CONTINUOUSLY MAINTAIN ADEQUATE PROTECTION OF ALL HIS WORK FROM DAMAGE AND SHALL PROTECT THE OWNER'S PROPERTY FROM INJURY OR LOSS ARISING FROM HIS WORK. HE SHALL MAKE GOOD ANY SUCH DAMAGE, INJURY, OR LOSS, EXCEPT SUCH AS MAY BE DIRECTLY DUE TO CAUSES BEYOND HIS CONTROL AND NOT TO HIS FAULT OR NEGLIGENCE. HE SHALL ADEQUATELY PROTECT ADJACENT PROPERTY AS WELL.

B. EACH SUBCONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF THEIR EMPLOYEES ON THE WORK AND SHALL COMPLY WITH ALL PROVISIONS OF FEDERAL, STATE AND LOCAL BUILDING CODES AND SAFETY LAWS TO PREVENT ACCIDENTS OR INJURY TO PERSONS ON OR ADJACENT TO THE PREMISES WHERE THE WORK IS BEING PERFORMED. EACH SUBCONTRACTOR SHALL MAINTAIN ALL INSURANCE REQUIRED TO PROTECT HIMSELF, OWNER AND TENANT FOR THE DURATION OF THE WORK AGAINST PROPERTY DAMAGE AND PUBLIC LIABILITY.

CHANGES IN THE WORK

THE TENANT, WITHOUT INVALIDATING THE CONTRACT, MAY ORDER EXTRA WORK OR MAKE CHANGES BY ALTERING, ADDING TO OR DEDUCTING FROM THE WORK, THE CONTRACT SUM BEING ADJUSTED ACCORDINGLY.

COOPERATION

ALL WORK UNDER THESE SPECIFICATIONS SHALL BE ACCOMPLISHED IN CONJUNCTION WITH OTHER CONTRACTORS AND TRADES OF THIS PROJECT IN A MANNER WHICH WILL ALLOW EACH CONTRACTOR AND TRADE ADEQUATE TIME AT THE PROPER STAGE OF CONSTRUCTION TO FULFILL HIS CONTRACTS. REFERENCE SHALL BE MADE TO THE OWNER FOR INSTRUCTIONS SHOULD ANY QUESTIONS ARISE BETWEEN TRADES AS TO THE PLACING OF LINES, DUCTS, CONDUITS, FIXTURES, OR EQUIPMENT, OR SHOULD IT APPEAR DESIRABLE TO REMOVE ANY GENERAL CONSTRUCTION WHICH WOULD AFFECT THE APPEARANCE OR STRENGTH OF THE STRUCTURE.

SUBSTITUTION OF MATERIALS

MANUFACTURER'S NAMES ARE LISTED HEREIN TO ESTABLISH A STANDARD. THE PRODUCTS OF OTHER MANUFACTURERS WILL BE ACCEPTABLE, IF IN THE OPINION OF THE TENANT, THE SUBSTITUTE MATERIAL IS OF A QUALITY AS GOOD OR BETTER THAN THE MATERIAL SPECIFIED, AND WILL SERVE WITH EQUAL EFFICIENCY AND DEPENDABILITY, THE PURPOSE FOR WHICH THE ITEMS SPECIFIED WERE INTENDED. CONTRACTOR ASSUMES ALL RESPONSIBILITIES AND COST IMPACTS OF SUBSTITUTIONS.

SHOP DRAWINGS

SHOP DRAWINGS AND CATALOG DATA ON ALL MAJOR ITEMS OF EQUIPMENT AND SYSTEMS, AND SUCH OTHER ILLUSTRATIVE MATERIAL AS MAY BE CONSIDERED NECESSARY BY THE TENANT, SHALL BE SUBMITTED BY THIS CONTRACTOR IN ADEQUATE TIME TO PREVENT DELAY AND CHANGES DURING CONSTRUCTION.

DRAWINGS AND SPECIFICATIONS

A. THE DRAWINGS SHOW DIAGRAMMATICALLY THE LOCATIONS OF THE VARIOUS LINES, DUCTS, CONDUITS, FIXTURES, AND EQUIPMENT AND THE METHOD OF CONNECTING AND CONTROLLING THEM. IT IS NOT INTENDED TO SHOW EVERY CONNECTION IN DETAIL AND ALL FITTINGS REQUIRED FOR A COMPLETE SYSTEM.

B. SHOULD ANY CHANGES BE DEEMED NECESSARY BY THE CONTRACTOR IN ITEMS SHOWN ON CONTRACT DRAWINGS, THE SHOP DRAWINGS, DESCRIPTIONS, AND THE REASON FOR THE PROPOSED CHANGES SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL.

RESPONSIBILITY

A. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE SATISFACTORY AND COMPLETE EXECUTION OF ALL WORK INCLUDED IN HIS CONTRACT. HE SHALL PRODUCE COMPLETE FINISHED OPERATING SYSTEMS AND PROVIDE ALL INCIDENTAL ITEMS REQUIRED AS PART OF HIS WORK, REGARDLESS OF WHETHER SUCH ITEM IS PARTICULARLY SPECIFIED OR INDICATED.

B. CONTRACTOR SHALL SUPPLY TO LANDLORD AND TENANT A CERTIFIED BALANCE REPORT AT COMPLETION OF PROJECT. THIS IS REQUIRED FOR BOTH REMODELED AND NEW STORES.

HEATING, VENTILATING AND AIR CONDITIONING

GENERAL

A. THE WORK COVERED BY THIS SECTION OF THESE SPECIFICATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE RESPECTIVE DRAWINGS, INFORMATION, OR INSTRUCTIONS TO BIDDERS, AND THE GENERAL CONDITIONS, ADDENDA, OR DIRECTIVES WHICH MAY BE ISSUED BY THE OWNER, HEREWITH, OR OTHERWISE, SHALL BE COMPLIED WITH IN EVERY RESPECT.

B. THE LISTING HEREIN OF AN ARTICLE OR MATERIAL, OPERATION OR METHOD, REQUIRES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL EACH ITEM LISTED, UNLESS SPECIFICALLY NOTED TO THE CONTRARY. THE CONTRACTOR SHALL PERFORM EACH OPERATION PRESCRIBED OR LISTED ACCORDING TO THE CONDITIONS STATED.

EXAMINATION OF SITE

ALL CONTRACTORS SUBMITTING PROPOSALS FOR THIS WORK SHALL FIRST EXAMINE THE SITE AND ALL CONDITIONS THEREON AND/OR THEREIN. ALL PROPOSALS SHALL TAKE INTO CONSIDERATION ALL SUCH CONDITIONS AS MAY AFFECT THE WORK UNDER THIS CONTRACT.

SCOPE

FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY FOR A COMPLETE FULLY OPERATIVE HEATING, VENTILATING, AND AIR CONDITIONING SYSTEM EXCEPT AS SPECIFICALLY EXCLUDED BY THE DRAWINGS, AND/OR TENANT'S DIRECTIONS.

EQUIPMENT

A. 1. ROOFTOP UNITS: FURNISH HEATING AND AIR CONDITIONING AS SCHEDULED. UNIT TO BE COMBINED PACKAGED SYSTEM, ALL SEASON EQUIPMENT, CONSISTING OF GAS HEATING SECTION, BLOWER, DX COIL, COMPRESSOR(S), AND AIR COOLED CONDENSING SECTION. UNIT SHALL BE DESIGNED FOR DOWN FLOW ARRANGEMENT WITH ALL DUCT PENETRATIONS WITHIN FACTORY ROOF CURB.

2. FEATURES: UNITS TO BE WOUND FOR VOLTAGE AND PHASE AS SCHEDULED. HEAVY GAUGE ALUMINIZED STEEL, STAINLESS STEEL OR COATED HEAT EXCHANGER WILL BE ACCEPTABLE. UNIT MUST BE A.G.A. APPROVED FOR OUTDOOR APPLICATION. DIRECT EXPANSION COIL WITH FACTORY INSTALLED EXPANSION VALVE - BLOWER SHALL BE OF THE CENTRIFUGAL BELT DRIVEN OR MULTI-SPEED DIRECT DRIVE TYPE WITH FORWARD CURB AND BLOWER AND MOTOR ISOLATED FOR QUIET OPERATION - BUILT IN MOTOR STARTER WITH OVER VOLTAGE PROTECTION. HERMETICALLY SEALED COMPRESSOR WITH INHERENT OVERLOAD PROTECTION THERMOSTAT - NON-PRORATED 5-YEAR WARRANTY ON COMPRESSOR AND 10-YEAR WARRANTY ON HEAT EXCHANGER - CONDENSER COIL CONSTRUCTED OF COPPER TUBING WITH ALUMINUM FINS - CRANKCASE HEATERS - BUILT IN MOTOR STARTERS ELECTRIC IGNITION - HIGH, LOW PRESSURE CUTOUT ON COMPRESSOR - SHUTOFF VALVES ON LIQUID AND SUCTION LINES - SHORT CYCLE TIMER PROTECTION - FILTER - DRYER - VIBRATION ISOLATION. UNIT FACTORY CHARGED.

3. ACCESSORIES: SUPPLY AND RETURN FILTER CASING ASSEMBLY, TWO COMPLETE SETS OF THROWAWAY TYPE FILTERS. FILTERS SHALL BE 2" THICK. ONE SET TO BE REMOVED AND REPLACED JUST PRIOR TO TEST & BALANCE - FULL ECONOMIZER PACKAGE WITH LOW LEAKAGE FRESH AIR STANDARD RETURN AIR DAMPERS AND DAMPER MOTOR - MINIMUM POSITION SETTING - PROVIDE MANUFACTURER'S INTERFACE AS REQUIRED FOR OPERATION WITH THERMOSTAT AS SPECIFIED. PROVIDE MOUNTING CURB APPROVED BY NATIONAL ROOF CONTRACTORS ASSOCIATION TO SUPPORT THE ENTIRE ASSEMBLY WITH NAILER STRIP AND AIR TIGHT GASKET.

E. ALL HVAC UNITS WILL BE EQUIPPED WITH PROGRAMMABLE THERMOSTAT. DESIGN AND STANDARD CONDITIONS FOR THERMOSTAT OPERATION WILL BE AS FOLLOWS:

COOLING: 75°F MAXIMUM OCCUPIED COOLING TEMPERATURE
85°F COOLING NIGHT SETBACK.

HEATING: 70°F MAXIMUM OCCUPIED HEATING TEMPERATURE
60°F HEATING NIGHT SETBACK.

FAN: CONTINUOUS IN OCCUPIED AND RECOVERY MODE AND WITH HEATING OR COOLING EQUIPMENT IN UNOCCUPIED MODE.

DEADBAND: CAPABLE OF MAINTAINING A 5°F DEADBAND.

CLOCK: 7 DAY CAPABLE OF 7 DIFFERENT DAY SCHEDULES.

OVERNIGHT: HAVE A 2 HOUR OVERRIDE ACCESSIBLE TO MANAGER.

BACKUP: CAPABLE OF MAINTAINING PROGRAMMED SETTING FOR AT LEAST 10 HOURS WITHOUT A POWER.

F. THE HVAC SUBCONTRACTOR SHALL IDENTIFY ALL ROOF MOUNTED HVAC EQUIPMENT AND APPARATUS WITH 2" HIGH PAINTED STENCILED STORE NAME ON ALL SIDES OF EQUIPMENT.

DUCTWORK

A. SQUARE AND RECTANGULAR DUCTWORK SHALL BE CONSTRUCTED OF NEW GALVANIZED PRIME GRADE SHEET STEEL OF THE FOLLOWING GAUGES:

DUCT SIZE	GUAGE
12" AND LESS	NO. 26 U.S. GAUGE
13" TO 30"	NO. 24 U.S. GAUGE
31" TO 54"	NO. 22 U.S. GAUGE
55" TO 84"	NO. 20 U.S. GAUGE
85" AND OVER	NO. 18 U.S. GAUGE

B. SQUARE AND RECTANGULAR DUCTWORK SHALL BE CONSTRUCTED AS FOLLOWS:

SIZE	METHOD
17" AND LESS	"S" AND DRIVE CLEATS
18" TO 30"	"L" STANDING SEAMS ON 3'-0" CENTERS
31" TO 54"	1-1/4" STANDING SEAMS ON 3'-0" CENTERS

ALL KITCHEN HOOD EXHAUST DUCTWORK SHALL BE SINGLE WALL FACTORY-BUILT, GREASE DUCT FOR USE WITH TYPE I HOODS, WHICH CONFORMS TO NFPA-96. SEE ADDITIONAL SPECIFICATIONS ON SHEET MH1-01 OF HOOD DRAWINGS.

1. THE KITCHEN HOOD EXHAUST DUCTWORK SHALL BE ENCLOSED IN A RATED ENCLOSURE PER CODE, TWO (2) LAYERS OF 3M FIRE BARRIER DUCT WRAP 615+ OR SIMILAR.

2. THE CONTRACTOR SHALL INCLUDE IN HIS PRICE:

- ALL NECESSARY TRANSITION AND CONNECTION FITTINGS TO THE HOOD AND EXHAUST FANS.
- ALL CLEAN-OUT ACCESS PANELS AS REQUIRED BY CODE.
- ALL ELBOW AND TRANSITION FITTINGS.
- ALL HANGERS AND SUPPORTS.
- SHOP DRAWINGS SHOWING PROPOSED FABRICATION AND INSTALLATION COORDINATED WITH EXISTING FIELD CONDITIONS AND OTHER TRADES.

ROUND SPIRAL DUCTWORK SHALL BE LINX FACTORY PAINTED SPIRAL DUCTWORK AND FITTINGS ARE APPROVED EQUAL. INSTALANCE AND SUSPENDED AS PER MANUFACTURER'S RECOMMENDATIONS. GAUGES FOR SHOP FABRICATED DUCTS SHALL BE AS FOLLOWS:

UP TO 12" IN DIAMETER	NO. 26 GAUGE
13" TO 30"	NO. 24 GAUGE
31" TO 42"	NO. 22 GAUGE
43" TO 60"	NO. 20 GAUGE

ELBOWS SHALL HAVE A CENTERLINE RADIUS OF 1-1/2 TIMES DUCT DIAMETER AND MAY BE SMOOTH ELBOWS OR 5 PIECE 90 DEGREE ELBOWS AND 3 PIECE 45 DEGREE ELBOWS. JOINTS OF ROUND DUCTS SHALL BE SLIP TYPE WITH A MINIMUM OF 3 SHEET METAL SCREWS.

1. NOT USED.

2. ALL LOW PRESSURE DUCTWORK SHALL BE EXTERNALLY SEALED USING UNITED SHEET METAL, MMM EC-800, OR HARDCAST DUCT SEALER INSTALLED IN THE JOINTS PRIOR TO CLOSURE. ADDITIONALLY SEAL ALL EXTERNAL TRANSVERSE JOINTS AND FITTING CONNECTIONS EXTERNALLY.

C. ALL SUPPLY AIR DUCTS (HEATING AND COOLING) AND RETURN AIR DUCTS AND OUTSIDE AIR DUCTS SHALL BE GALVANIZED STEEL WITH MIN. 1-1/2" (R-4) THICK EXTERNAL THERMAL INSULATION EXCEPT DUCT LINED FOR ACOUSTICAL PURPOSES. CONTINUE INSULATION TO TOP OF ALL DIFFUSERS, GRILLES, REGISTERS, ETC. ALL EXHAUST AND RELIEF AIR DUCTS SHALL BE GALVANIZED STEEL. ALL KITCHEN HOOD EXHAUST DUCTWORK SHALL HAVE FIRE BARRIER DUCT WRAP. DUCT WRAP SHALL BE TESTED IN ACCORDANCE WITH ASTM E 2338. 2 LAYERS OF 3M FIRE BARRIER DUCT WRAP 615+ OR SIMILAR TO BE USED.

D. CONTRACTOR WILL INSTALL INSECT SCREENS ON ALL DUCT OPENINGS WHICH LEAD TO OR ARE OUTDOORS. INSECT SCREENS SHALL BE 10 GAUGE, ONE-HALF INCH (1/2") MESH IN REMOVABLE GALVANIZED STEEL FRAMES.

E. ALL DUCTWORK SHALL BE DESIGNED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN THE AMERICAN SOCIETY OF HEATING REFRIGERATION AND AIR CONDITIONING ENGINEERS GUIDE (ASHRAE) AND FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST METHODS RECOMMENDED IN THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA) LOW VELOCITY DUCT MANUAL, LATEST EDITION.

F. NOT USED.

HANGERS AND SUPPORTS

A. ALL HORIZONTAL DUCTS HAVING A DIMENSION OF 40 INCHES AND LESS SHALL BE SUPPORTED BY MEANS OF BAND IRON HANGERS OF NO. 18 U.S. GAUGE ATTACHED TO THE DUCT BY MEANS OF RIVETS, SCREWS, OR CLAMPS, AND FASTENED TO STRUCTURE ABOVE BY TOGGLE BOLTS OR OTHER MEANS. EACH SECTION OF DUCTWORK SHALL HAVE AT LEAST ONE PAIR OF SUPPORTS. VERTICAL DUCTS SHALL BE SUPPORTED WITH 1-1/4" x 1-1/4" x 1-1/4" ANGLES WHERE THEY PASS THROUGH THE FLOOR LINES.

B. ALL HORIZONTAL DUCTS HAVING A DIMENSION OF 40 INCHES AND MORE SHALL BE SUPPORTED BY MEANS OF ANGLE IRON TRAPEZE HANGERS. EACH SECTION OF DUCTWORK SHALL HAVE AT LEAST ONE PAIR OF SUPPORTS.

FLASHING

A. CONTRACTOR WILL PROVIDE WATER TIGHT 24 GA. SHEET METAL FLASHINGS AT ALL EXTERIOR WALLS AND ROOF PENETRATIONS.

B. ALL CUTTING OF ROOF OPENINGS, SUPPORTS FOR ROOF OPENINGS, PITCH PANS, ROOF CURBS, FLASHINGS, COUNTER FLASHINGS, REPAIR TO ROOF, ETC. ASSOCIATED WITH HVAC SUBCONTRACTOR SHALL BE THE RESPONSIBILITY AND PART OF THE CONTRACT HVAC SUB CONTRACTOR. HE SHALL EMPLOY THE LANDLORD'S ROOFERS FOR THIS WORK SO AS TO MAINTAIN THE ROOF BOND.

DAMPERS

A. SPLITTER DAMPERS SHALL BE FABRICATED OF SHEET STEEL NOT LESS THAN NO. 16 U.S. GAUGE WITH THE LEADING EDGE HEMMED. EACH DAMPER SHALL BE LARGE ENOUGH TO COVER THE SMALLER OF THE TWO OPENINGS IT CONTROLS. DAMPERS SHALL BE CONTROLLED AS FOLLOWS:

EXPOSED OR ACCESSIBLE DUCTWORK - LOCKING QUADRANTS EQUAL TO YOUNG REGULATOR NO. 1 WITH DAMPER ROD END BEARINGS ON OPPOSITE END.

CONCEALED DUCTWORK - LOCKING QUADRANT EQUAL TO YOUNG REGULATOR NO. 315 (CHROMIUM PLATED WITH DAMPER ROD END BEARINGS ON BOTH ENDS).

B. VOLUME DAMPERS SHALL BE OF THE OPPOSED INTERLOCKING TYPE AS MANUFACTURED BY AMERICAN FOUNDRY AND FURNACES CO. (AFFCO) OR EQUAL. BLADES SHALL BE OF NO. 16 GAUGE SHEET METAL AND SHALL NOT EXCEED 48" IN LENGTH OR 12" IN WIDTH. BLADES SHALL BE ON ONE-HALF INCH (1/2") DIAMETER RUSTPROOF AXLE. BEARINGS SHALL BE OF THE SELF-LUBRICATING FERRULE TYPE.

C. FIRE DAMPERS SHALL BE SUPPLIED AND INSTALLED BY HVAC CONTRACTOR AT DUCT PENETRATIONS IN FIRE RATED WALLS, CEILING, AND ROOFS AS REQUIRED. COORDINATE WITH LANDLORD, LOCAL FIRE MARSHALL AND ALL CODES AND GOVERNING AUTHORITIES HAVING JURISDICTION.

D. JOB FABRICATED TURNING VANES SHALL BE ACCEPTABLE IN SQUARE ELBOWS. PROVIDE AND INSTALL BARBER-COLEMAN AIR TURNS OR EQUAL. TURNING VANES SHALL BE OF THE SAME GAUGE METAL AS THE DUCT IN WHICH THEY ARE INSTALLED. RADIUS ELBOWS SHALL HAVE A CENTER-LINE RADIUS OF ONE AND ONE-HALF (1-1/2) TIMES THE DUCT WIDTH.

DUCTWORK - EXCEPTIONS

DUCTWORK FOR EXHAUSTING AIR OR OUTSIDE SUPPLY AIR SHALL BE ALL METAL AND CONSTRUCTED ACCORDING TO RECOMMENDED PRACTICES AS FOUND

SUPPORT OF DUCT SYSTEM

HANGER DESIGN SHALL BE AS DESCRIBED IN THE LATEST EDITION OF THE "SMACNA" MANUAL. REINFORCEMENT MEMBERS MAY BE USED TO SUPPORT DUCT SYSTEM PROVIDED DETAILS OUTLINED IN THE AFOREMENTIONED MANUAL ARE ADHERED TO. DUCTS SHALL BE SUPPORTED AT ALL TURNS AND TRANSITIONS AND NOT MORE THAN 8'-0" O.C. STRAIGHT DUCTS UP TO 59" MAX. DIMENSIONS SHALL BE SUPPORTED 6'-0" O.C. DUCTS OVER 60" MAX. DIMENSIONS SHALL BE SUPPORTED AT 4'-0" O.C.

REINFORCEMENT

ALL DUCTS REQUIRING REINFORCEMENT SHALL BE REINFORCED ACCORDING TO THE LATEST EDITION OF "SMACNA" MANUAL.

MATERIALS FOR REINFORCEMENT MEMBERS SHALL BE GALVANIZED STEEL. ALL SCREWS AND WASHERS SHALL BE PLATED OR GALVANIZED.

ACCESSORY ITEMS

ALL MANUAL DAMPERS, FIRE DAMPERS, TURNING VANES, REGISTER CONNECTIONS, ACCESS DOORS OR OTHER ASSOCIATED ACCESSORIES SHALL BE INSTALLED ACCORDING TO THE LATEST PUBLICATION OF "SMACNA" MANUAL.

TESTING AND ADJUSTING

CONTRACTOR WILL DEMONSTRATE OPERATION OF SYSTEM TO FULL SATISFACTION OF TENANT. WILL BALANCE AIR FLOW IN ACCORDANCE WITH AIR QUANTITIES ON DRAWINGS AND WILL RECORD VOLUME READINGS IN ACCORDANCE WITH ASHRAE AND PROVIDE SAME TO TENANT. ALL PIPING SHALL WITHSTAND AIR PRESSURE TESTING PER GOVERNING PLUMBING CODE.

A. AIR DISTRIBUTION SYSTEMS:

1. INSPECT INSTALLATION AND VERIFY CONFORMITY TO DESIGN. VERIFY THAT SUPPLY, RETURN, AND EXHAUST DUCTS HAVE BEEN PRESSURE-TESTED FOR LEAKAGE AS RECOMMENDED IN THE APPROPRIATE SMACNA STANDARDS.

2. VERIFY THAT VOLUME AND FIRE DAMPERS ARE PROPERLY LOCATED AND FUNCTIONAL.

3. VERIFY THAT SUPPLY, RETURN, EXHAUST AND TRANSFER GRILLES, REGISTERS AND DIFFUSERS ARE INSTALLED AND OPERATING PROPERLY.

B. VERIFY THAT CONTROL COMPONENTS ARE INSTALLED IN ACCORDANCE WITH PROJECT REQUIREMENTS AND ARE FUNCTIONING AS INTENDED, INCLUDING ELECTRICAL POWER, CONTROL AND INTERLOCK WIRING, DAMPER SEQUENCES, SMOKE DETECTORS, ETC.

C. UPON COMPLETION OF THE INSTALLATION AND START-UP OF THE MECHANICAL EQUIPMENT, TEST, ADJUST AND BALANCE SYSTEM COMPONENTS TO OBTAIN OPTIMUM CONDITIONS IN EACH CONDITIONED SPACE IN THE BUILDING.

D. BEFORE FINAL ACCEPTANCE IS MADE, FURNISH TO THE ARCHITECT THE FOLLOWING DATA:

1. SUMMARY OF MAIN SUPPLY, RETURN AND EXHAUST DUCT PILOT TUBE TRANSVERSES AND FAN SETTINGS.

2. AIR QUANTITIES AT EACH SUPPLY, RETURN, RELIEF AND EXHAUST AIR HANDLING DEVICE.

3. AIR PRESSURE READINGS ENTERING AND LEAVING EACH SUPPLY FAN AND EXHAUST FAN.

4. MOTOR CURRENT AND VOLTAGE READINGS AT EACH EQUIPMENT MOTOR.

5. TEST RESULTS SHALL BE RECORDED ON STANDARD FORMS CONFORMING TO AABC AND NEBB REQUIREMENTS. THE REPORT SHALL INCLUDE AIR FLOW SCHEMATIC DIAGRAMS INDICATING AND IDENTIFYING TEST LOCATIONS SUCH AS DUCT TRANSVERSE, OUTLET READINGS, PRESSURE READINGS AND TEMPERATURE READINGS, AND SHALL BE REFERENCED TO THE RECORDED DATA ON THE FORMS.

E. MAKE AN INSPECTION IN THE BUILDING DURING THE OPPOSITE SEASON FROM THAT IN WHICH THE INITIAL ADJUSTMENTS WERE MADE, AND AT THAT TIME MAKE ANY NECESSARY MODIFICATIONS TO THE INITIAL ADJUSTMENTS REQUIRED TO PRODUCE OPTIMUM OPERATION OF THE SYSTEM COMPONENTS, TO PRODUCE THE PROPER CONDITIONS IN EACH SPACE.

F. INSTRUCTION: THE CONTRACTOR SHALL INSTRUCT THE BUILDING OPERATING PERSONNEL IN THE CONSTRUCTION AND OPERATION OF ALL EQUIPMENT.

GUARANTEE

ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF ACCEPTANCE. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTANCE BY TENANT SHALL BE A CONDITION OF THIS CONTRACT. ALL WORK FOUND TO BE DEFECTIVE SHALL BE REPAIRED OR REPLACED BY THIS SUBCONTRACTOR WITHOUT ADDITIONAL CHARGE TO THE TENANT.

MECHANICAL

TEMPORARY SERVICES

THE CONTRACTOR SHALL PROVIDE THE FOLLOWING SPECIFIC ITEMS OF TEMPORARY SERVICES:

A. TELEPHONE - THE TENANT'S GENERAL CONTRACTOR SHALL INSTALL A JOB SITE TELEPHONE AND NOTIFY TENANT AS LISTED ON SHEET A-1 OF THE TELEPHONE NUMBER AND THE NAME OF THE SUPERINTENDENT.

B. TEMPORARY WATER - WATER REQUIRED IN THE PERFORMANCE OF THE CONTRACT SHALL BE PROVIDED AND PAID FOR BY THE CONTRACTOR. WATER USED FOR HUMAN CONSUMPTION SHALL CONFORM TO REQUIREMENTS OF STATE AND LOCAL AUTHORITIES FOR POTABLE WATER.

C. TEMPORARY ELECTRICITY - TEMPORARY ELECTRIC SERVICE REQUIRED IN THE PERFORMANCE OF THE CONTRACT SHALL BE FURNISHED AND PAID FOR BY THE CONTRACTOR WHO SHALL FURNISH, INSTALL, AND MAINTAIN ALL TEMPORARY OVERHEAD CONSTRUCTION, METERS, DROPS, AND OTHER WIRING AND FITTINGS FOR BOTH LIGHT AND POWER AT LOCATIONS REQUIRED IN THE WORK AND SHALL BEAR THE COST OF MAKING THE SERVICE CONNECTIONS. BEFORE FINAL ACCEPTANCE, TEMPORARY ELECTRICAL SERVICE FACILITIES INSTALLED BY THE CONTRACTOR SHALL BE REMOVED AND THE SERVICE CONNECTIONS SEVERED IN ACCEPTABLE MANNER.

D. TEMPORARY HEAT - WHEN REQUIRED FOR PROPER INSTALLATION OR PROTECTION OF ANY PORTION OF THE WORK, THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY HEATING UNITS AS APPROVED BY THE LANDLORD OR LOCAL AUTHORITY.

E. COST OF LANDLORD PROVIDED UTILITY SERVICES - IF THE LANDLORD ELECTS TO PROVIDE TEMPORARY UTILITY SERVICES, THE CONTRACTOR WILL BE SO INFORMED BY THE TENANT. THE CONTRACTOR SHALL MAKE TO PAY THE COST OF SAID TEMPORARY CONSTRUCTION AND UTILITY SERVICES.

NOTE FOR TENANT GENERAL CONTRACTOR

IT IS THE RESPONSIBILITY OF THE TENANT'S GENERAL CONTRACTOR TO MAKE USE OF APPLICABLE NOTES AND SPECIFICATIONS LISTED ON THIS SHEET AS THEY MAY PERTAIN TO THE SPECIFIC JOB.

FIVE GUYS®
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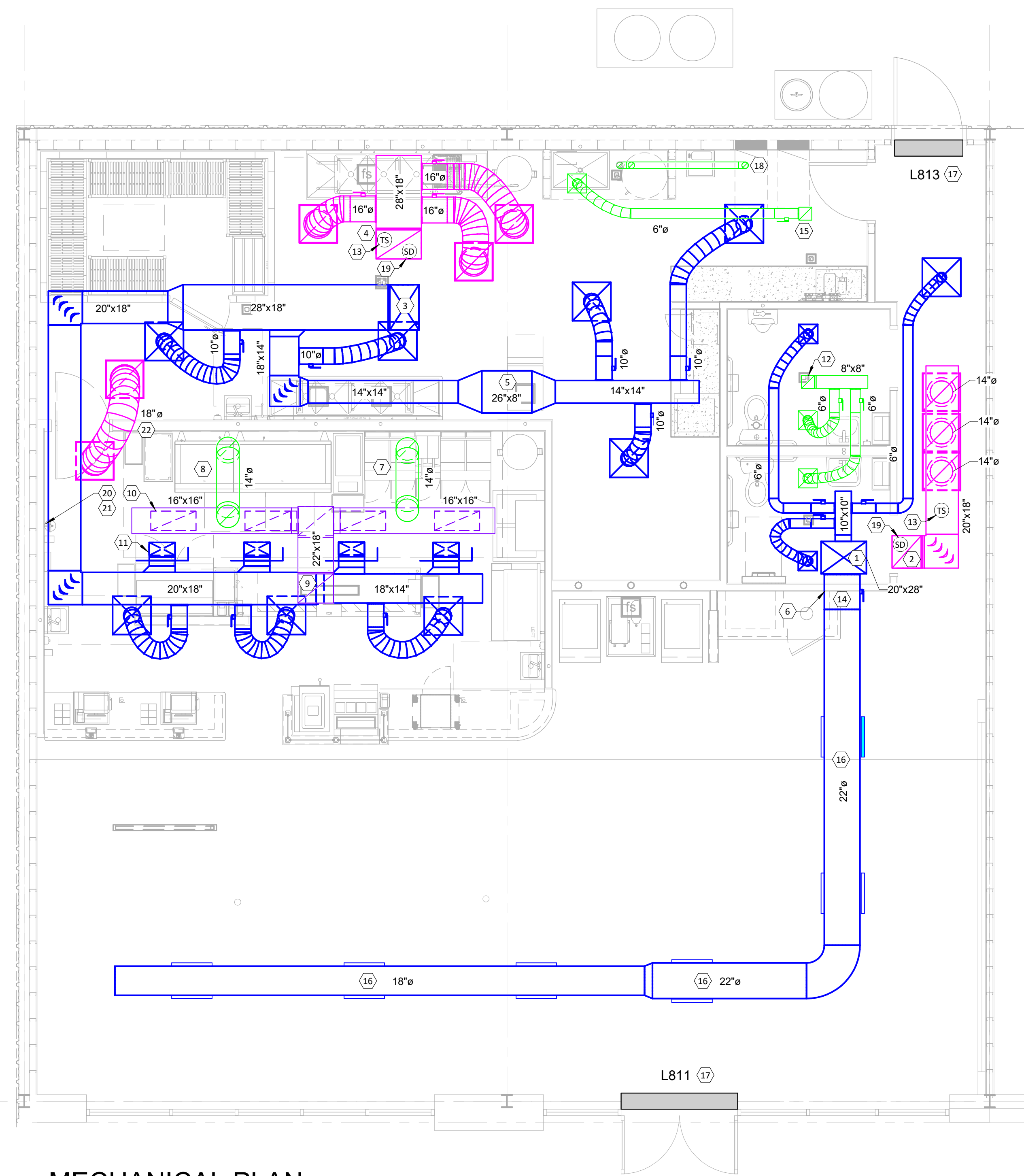
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REV.	DATE	DESCRIPTION
-	28 Nov. 2023	Final Review, G.C. Bid, Building Dept. Review/Permit Filing

PROJECT:

FIVE GUYS BURGERS & FRIES</



1 MECHANICAL PLAN
1/4" = 1'-0"

GENERAL NOTES:

- DUCT/PIPING LAYOUT IS SCHEMATIC. EXACT LOCATION OF DUCT/PIPING AND EQUIPMENT SHALL BE COORDINATED WITH THE BUILDING STRUCTURE, EQUIPMENT, EXISTING CONDITIONS, ARCHITECTURAL DRAWINGS, AND ALL OTHER TRADES PRIOR TO INSTALLATION. ANY CONTRACTOR INSTALLING WORK PRIOR TO COORDINATION SHALL RELOCATE HIS WORK AT HIS EXPENSE TO ALLOW PROPER INSTALLATION OF ANY AND ALL OTHER TRADES' WORK. CONTRACTOR TO VERIFY THAT DUCTWORK SIZES, ELEVATIONS, EQUIPMENT WILL FIT ABOVE CEILING SYSTEM.
- ALL WORK SHALL COMPLY WITH LOCAL MECHANICAL CODE AND ALL OTHER APPLICABLE CODES.
- DUCT SIZES SHOWN ARE NET INSIDE CLEAR DIMENSIONS.
- ALL SUPPLY DUCTWORK ABOVE CEILING SPACES SHALL BE EXTERNALLY INSULATED WITH 1-1/2" THICK FIBERGLASS INSULATION.
- FLEXIBLE RUNOUTS TO AIR DEVICES SHALL BE NO MORE THAN 5'-0" IN LENGTH AND SHALL BE INSULATED.
- MANUAL DAMPERS SHALL BE PROVIDED AT ALL BRANCH TAPS FOR BALANCING.
- ALL MECHANICAL WORK SHALL BE IN STRICT COMPLIANCE WITH THE LOCAL MECHANICAL CODES AND APPLICABLE PROVISION OF THE LOCAL FUEL GAS CODES. ALL WORK IS SUBJECT TO ON-SITE APPROVAL BY THE LOCAL AUTHORITY.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM BALANCE REPORT, HEAT GAIN, HEAT LOSS, AND COOLING CALCULATIONS TO LANDLORD'S REPRESENTATIVE TO VERIFY THAT THE REQUIRED VENTILATION AIR TO BE PROVIDED TO EACH SPACE HAS BEEN OBTAINED.
- REFER TO SHEET M0.0 FOR MECHANICAL LEGEND.
- SEE ARCHITECTURAL DRAWING FOR FINISH SPECIFICATIONS.
- ALL KITCHEN HOOD EXHAUST WORK SHALL BE 14 GAUGE BLACK IRON OR 18 GAUGE 303 STAINLESS STEEL WITH CONTINUOUS WELDED SEAMS, OR CAPTIVE/ARE NON-WELDED FACTORY GREASE DUCT SYSTEM WHICH IS ETL LISTED TO STANDARD UL-1978 AND CANULC-S662 WHEN INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND NFPA STANDARD 96. ACCESS DOORS SHALL BE PROVIDED EVERY 20'-0" AND AT ANY CHANGE IN DIRECTION. ALL SEAMS, JOINTS, AND PENETRATIONS SHALL BE LIQUID TIGHT AND CONTINUOUS.
- PROVIDE AND INSTALL ALL ADDITIONAL STEEL FOR ROOF STRUCTURE SUPPORT OF ALL EQUIPMENT ON ROOF. ALL ROOF WORK BY LANDLORD'S CONTRACTOR AT TENANT'S EXPENSE. ALL EQUIPMENT ON ROOF SHALL BE CURB OR RAIL MOUNTED AND FLASHED TO ROOF MEMBRANE.
- THE TOP OF ALL DIFFUSERS SHALL BE INSULATED TO PREVENT CONDENSATION AND RUST TO FORM.
- LINEAR DIFFUSERS TO BE PROVIDED WITH INSULATED PLENUM BOXES.
- NO RETURN AIR GRILLES TO BE LOCATED IN THE KITCHEN AREA, EXCEPT FOR TRANSFER GRILLE BETWEEN FRONT AND BACK OF HOUSE.

SEQUENCE OF OPERATIONS:

- ROOFTOP UNITS:**
- THERMOSTATS SHALL CONTROL OCCUPIED/UNOCCUPIED MODE OF OPERATION FOR THE ENTIRE SYSTEM IN ACCORDANCE WITH PROGRAMMED TIMES AND SET POINTS.
 - ON A CALL FOR COOLING FROM THE THERMOSTAT, SYSTEM SHALL ENERGIZE (MECHANICAL COOLING) IN STAGES. WHEN OUTDOOR ENTHALPY, AS SENSED BY UNIT MOUNTED CONTROLS, IS BELOW ITS SETTING, AND FREE COOLING IS AVAILABLE, UNIT MOUNTED ECONOMIZER SHALL BE ENABLED AND MODULATE DAMPERS BEYOND THEIR MIN. POSITION SET-POINTS TO SATISFY THE SETTING OF (55°F ADJUSTABLE). DURING THIS CYCLE, THE MECHANICAL COOLING SHALL BE DISABLED, ENTHALPY CONTROLLER SHALL RESET THE OUTSIDE AIR DAMPERS TO THE MINIMUM POSITION AND ENERGIZE THE MECHANICAL COOLING WHEN THE SET-POINT IS EXCEEDED.
 - ON A CALL FOR HEATING, GAS FIRED HEAT EXCHANGERS SHALL BE ENERGIZED AND SHALL RUN UNTIL SET-POINT IS SATISFIED.
 - DURING NIGHT SETBACK PERIOD AS PROGRAMMED ON ASSOCIATED ROOFTOP UNIT THERMOSTAT, BLOWER FAN SHALL BE OFF AND OUTSIDE AIR DAMPERS SHUT. ON A CALL FOR HEATING OR COOLING, THE OUTSIDE AIR DAMPERS SHALL REMAIN CLOSED AND THE HEAT EXCHANGER OR COMPRESSOR CYCLE SHALL RUN UNTIL SPACE SET-POINT IS SATISFIED.
 - VERRIDE TIMER SWITCH (MOUNTED ON THERMOSTAT) SHALL BYPASS THE PROGRAMMABLE THERMOSTAT (OCCUPIED SETTING) AND SHALL ENERGIZE THE SYSTEM INTO THE OCCUPIED MODE FOR A MINIMUM OF A 3 HOUR PERIOD.
 - REMOTE TEMPERATURE SENSORS SHALL BE USED SO THAT THERMOSTATS CAN BE IN PREP ROOM AREA, AWAY FROM THE PUBLIC.
- EXHAUST FANS:**
- TOILET ROOM EXHAUST FANS SHALL BE INTERLOCKED WITH THE RTU THERMOSTATS. DURING THE OCCUPIED MODE, THE EXHAUST FAN SHALL RUN CONTINUOUSLY. DURING UNOCCUPIED HOURS, EXHAUST FANS SHALL BE TURNED OFF.
- DUCT SMOKE DETECTORS:**
- ROOFTOP UNIT SUPPLY FAN SHALL BE DE-ENERGIZED UPON DETECTION OF SMOKE IN DUCT SMOKE DETECTOR.

SPECIFIC NOTES:

- 28" X 20" SUPPLY AIR DUCT DOWN FROM RTU-01. PROVIDE TRANSITION AS REQUIRED TO CONNECT TO FULL SIZE UNIT OPENING.
- 20" X 18" RETURN AIR DUCT UP TO RTU-01. PROVIDE TRANSITION AS REQUIRED TO CONNECT TO FULL SIZE UNIT OPENING.
- 28" X 18" SUPPLY AIR DUCT DOWN FROM RTU-02. PROVIDE TRANSITION AS REQUIRED TO CONNECT TO FULL SIZE UNIT OPENING.
- 28" X 18" RETURN AIR DUCT UP TO RTU-02. PROVIDE TRANSITION AS REQUIRED TO CONNECT TO FULL SIZE UNIT OPENING.
- FLATTEN DUCT IN THIS AREA TO CLEAR EXISTING BEAM. PROVIDE OFFSETS AS REQUIRED TO ROUTE DUCT BELOW BEAM AND ABOVE CEILING. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND DUCTWORK ROUTING.
- TRANSITION TO SPIRAL DUCT AT WALL. ROUTE SPIRAL DUCT EXPOSED IN DINING ROOM AS HIGH AS POSSIBLE. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND DUCTWORK ROUTING.
- 14" Ø GREASE EXHAUST DUCT UP FROM KITCHEN HOOD TO EF-01 ON ROOF. DUCT TO BE FACTORY-BUILT AND LISTED FOR USE WITH TYPE I HOODS. PROVIDE ALL FITTING AND TRANSITIONS REQUIRED TO CONNECT DUCT TO GREASE HOOD AND EXHAUST FAN. DUCT TO BE WRAPPED WITH TWO (2) LAYERS OF 3M FIRE BARRIER 615+ DUCT WRAP OR EQUAL.
- 14" Ø GREASE EXHAUST DUCT UP FROM KITCHEN HOOD TO EF-02 ON ROOF. DUCT TO BE FACTORY-BUILT AND LISTED FOR USE WITH TYPE I HOODS. PROVIDE ALL FITTING AND TRANSITIONS REQUIRED TO CONNECT DUCT TO GREASE HOOD AND EXHAUST FAN. DUCT TO BE WRAPPED WITH TWO (2) LAYERS OF 3M FIRE BARRIER 615+ DUCT WRAP OR EQUAL.
- 22" X 18" MAKE UP AIR DUCT DOWN FROM MAU-01. PROVIDE TRANSITION AS REQUIRED TO CONNECT TO FULL SIZE UNIT OPENING.
- 24" X 10" MAKE UP AIR DUCT FROM MAKE UP AIR PLENUM TO KITCHEN HOOD CONNECTION. COORDINATE WITH KITCHEN HOOD DRAWINGS FOR DETAILS AND CONNECTION SIZES. PROVIDE BALANCING DAMPER ABOVE HOOD CONNECTION IN AN ACCESSIBLE LOCATION. TYPICAL OF 4.
- 16" X 8" SUPPLY AIR DUCT FROM SUPPLY PLENUM TO KITCHEN HOOD CONNECTION. COORDINATE WITH KITCHEN HOOD DRAWINGS FOR DETAILS AND CONNECTION SIZES. PROVIDE BALANCING DAMPER ABOVE HOOD CONNECTION IN AN ACCESSIBLE LOCATION. BALANCE AT 300 CFM. TYPICAL OF 4.
- 8" X 8" EXHAUST DUCT UP TO EF-03 ON ROOF.
- REMOTE TEMPERATURE SENSOR MOUNTED IN RETURN AIR DUCT. TEMPERATURE SENSORS TO COMMUNICATE WITH EACH RESPECTIVE UNIT THERMOSTAT. LOCATE ALL THERMOSTATS IN MANAGERS OFFICE. THERMOSTATS TO BE HONEYWELL MODEL TH8110. COORDINATE EXACT THERMOSTAT LOCATION WITH OWNER. TYPICAL OF 2.
- 22" Ø SPIRAL DUCT FROM MAIN SUPPLY DUCT ABOVE RESTROOM CEILING. TOP OF HORIZONTAL SPIRAL DUCT TO BE MAXIMUM 0'-2" BELOW ACT CEILING. CUT AND SEAL WALL AROUND SPIRAL DUCT PENETRATION. PROVIDE AND INSTALL BLACK PAINTED TRIM RING AT WALL PENETRATION TO PROVIDE A CLEAN, FINISHED LOOK.
- 8" X 8" EXHAUST DUCT UP TO EF-4 ON ROOF.
- EXPOSED DOUBLE-WALL SPIRAL DUCTWORK. SEE SPIRAL DUCT DETAIL FOR ADDITIONAL INFORMATION.
- AIR CURTAIN TO BE INSTALLED BY CONTRACTOR, REFER TO ARCHITECTURAL EQUIPMENT PLANS FOR ADDITIONAL INFORMATION.
- 4" PVC/CPVC INTAKE AND 4" PVC/CPVC EXHAUST FROM GAS WATER HEATER UP TO ROOF. COMBINE RIGHT BEFORE ROOF PENETRATION WITH CONCENTRIC VENT KIT BY WATER HEATER MANUFACTURER. WATER HEATER PROVIDED AND INSTALLED BY OTHERS. ROUTE ABOVE CEILING AS INDICATED TO MAINTAIN MINIMUM 10'-0" CLEARANCE FROM ALL FRESH AIR INTAKES. FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS FOR VENT INSTALLATION.
- COORDINATE INSTALLATION OF NEW DUCT SMOKE DETECTOR IN DUCTWORK WITH ELECTRICAL CONTRACTOR. UNIT TO BE PROVIDED WITH ANNUNCIATOR BELOW UNIT WITH REMOTE TEST STATION LOCATED AT MANAGER'S DESK. VERIFY EXACT LOCATION IN THE FIELD WITH OWNER REPRESENTATIVE.
- ANSUL PULL STATION. SEE ARCHITECTURAL FOR EXACT LOCATION.
- INSTALL ROOM TEMPERATURE SENSOR (PROVIDED BY OTHERS) FOR KITCHEN HOOD. VERIFY EXACT MOUNTING HEIGHT IN FIELD.
- 18" Ø TRANSFER DUCT ABOVE CEILING. CONNECT TO RETURN GRILLES AS SHOWN.

COLOR LEGEND:

- NEW MECHANICAL EQUIPMENT
- NEW MECHANICAL SUPPLY
- NEW MECHANICAL RETURN
- NEW MECHANICAL EXHAUST

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FIVE GUYS BURGERS & FRIES
STORE No.
BUILDING No. 2
1229 - 1241 MARTIN LUTHER KING BLVD.
FAYETTEVILLE, ARKANSAS 70721

DRAWING TITLE
MECHANICAL PLAN

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REV.	DATE	DESCRIPTION
-	28 Nov. 2023	Final Review, G.C. Bldg. Building Dept. Review/ Permit Filing

PROJECT:
 FIVE GUYS BURGERS & FRIES
 STORE No.
 BUILDING No. 2
 1229 - 1241 MARTIN LUTHER KING BLVD.
 FAYETTEVILLE, ARKANSAS 70721

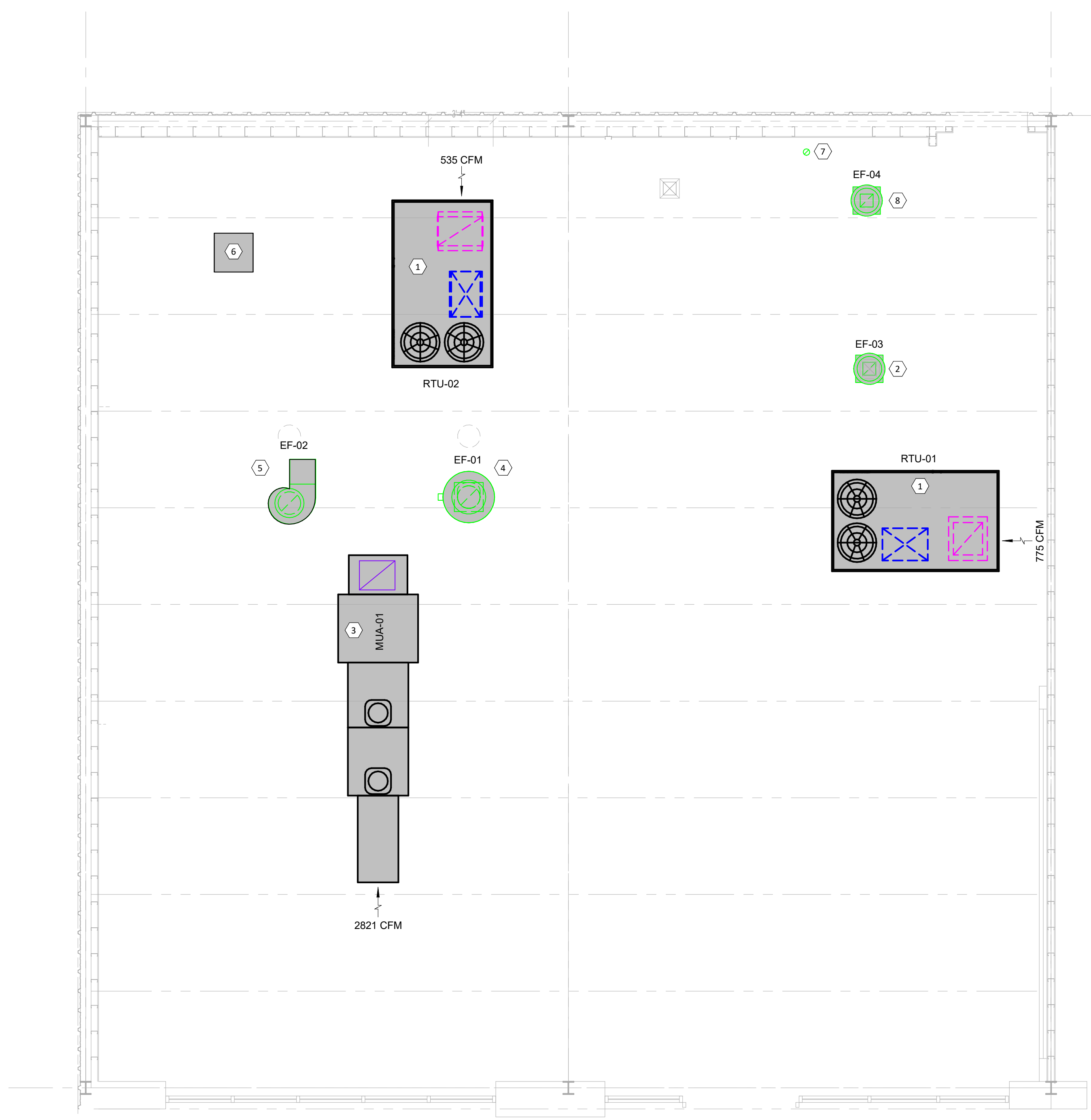
DRAWING TITLE
MECHANICAL ROOF PLAN

DATE: 11/28/2023 3:28:22 PM
 PROJECT No.: 2304201
 DRAWN BY: JHH
 CHECKED BY: PJW

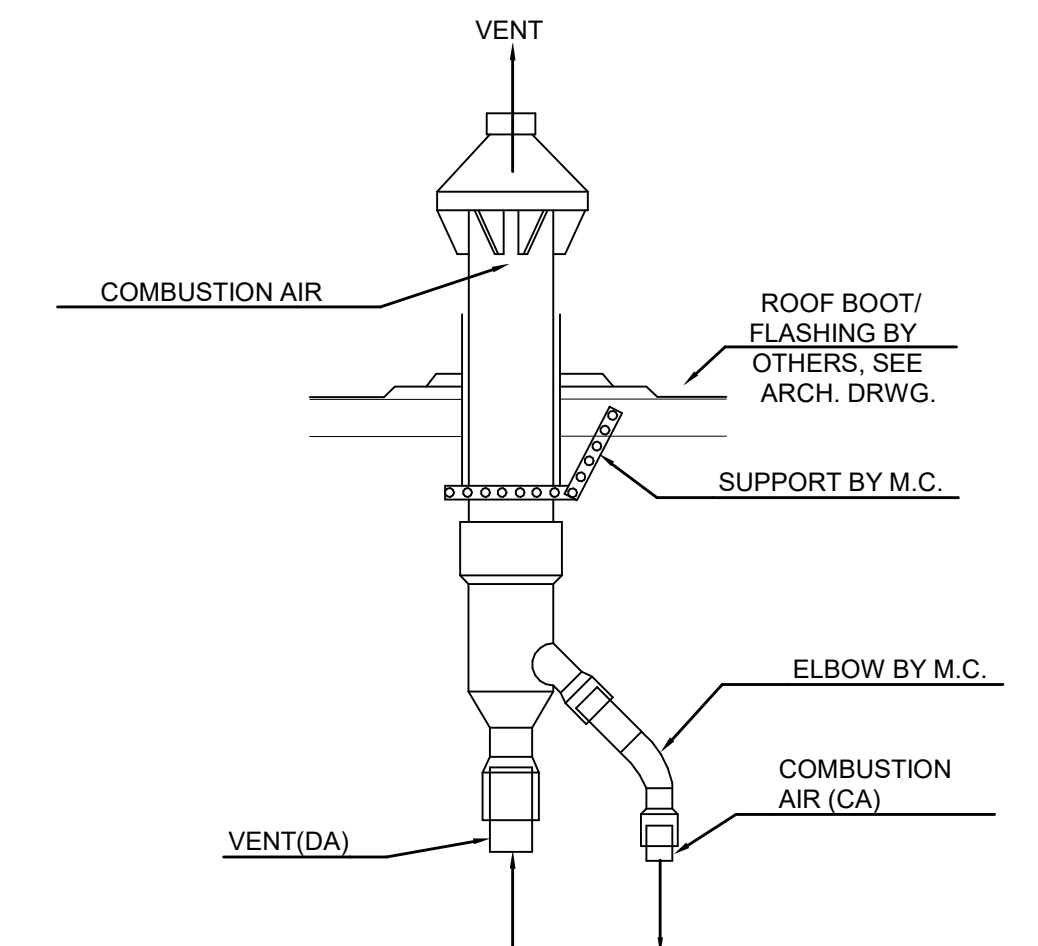
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 4 OF 13 SHEETS

- SPECIFIC NOTES:**
- 1 PROVIDE AND INSTALL NEW ROFTOP UNIT IN THE LOCATION SHOWN WITH NEW ROOF CURB.
 - 2 PROVIDE AND INSTALL NEW ROOF MOUNTED EXHAUST FAN WITH NEW ROOF CURB TO SERVE RESTROOMS.
 - 3 INSTALL NEW MAKE UP AIR UNIT WITH NEW ROOF CURB.
 - 4 INSTALL NEW CAPTIVEAIR EXHAUST FAN WITH NEW ROOF CURB TO SERVE KITCHEN HOOD OVER DEEP FRYERS. CONTRACTOR TO COORDINATE GREASE GUARD SYSTEM INSTALLATION.
 - 5 INSTALL NEW CAPTIVEAIR EXHAUST FAN WITH NEW ROOF CURB TO SERVE KITCHEN HOOD OVER GRILLS. CONTRACTOR TO COORDINATE GREASE GUARD SYSTEM INSTALLATION.
 - 6 INSTALL NEW REMOTE WALK-IN COOLER CONDENSER ON ROOF.
 - 7 INSTALL 4"Ø CONCENTRIC KIT FOR WATER HEATER. MAINTAIN 12" MIN. CLEARANCE ABOVE HIGHEST ANTICIPATED SNOW LEVEL. MAXIMUM OF 24" ABOVE ROOF.
 - 8 PROVIDE AND INSTALL NEW ROOF MOUNTED EXHAUST FAN WITH NEW ROOF CURB TO SERVE MOP-SINK.



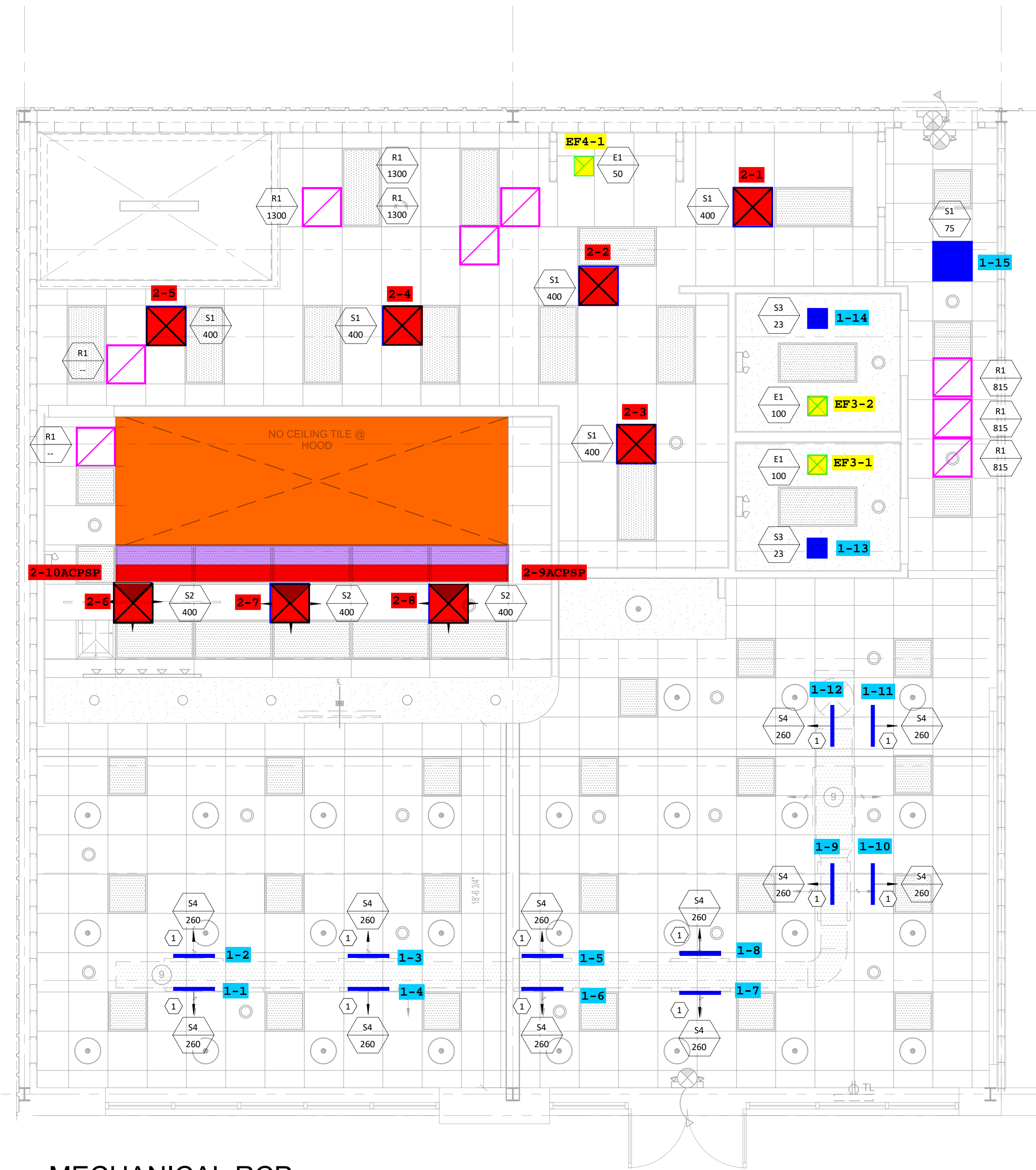
1 MECHANICAL ROOF PLAN
 1/4" = 1'-0"



WATER HEATER CONCENTRIC VENT KIT DETAIL

COLOR LEGEND:

	NEW MECHANICAL EQUIPMENT
	NEW MECHANICAL SUPPLY
	NEW MECHANICAL RETURN
	NEW MECHANICAL EXHAUST



1 MECHANICAL RCP
1/4" = 1'-0"

SPECIFIC NOTES:

① SPIRAL DUCT AIR GRILLE: LINDAB MODEL RGS-3 25" X 6". PROVIDE WITH INTEGRAL EXTRACTOR DAMPER. ORIENT GRILLE AT 15' DOWN FROM HORIZONTAL. SEE DETAIL. GRILLE TO BE PAINTED TO MATCH DUCTWORK. COORDINATE COLOR AND FINISH TYPE WITH ARCHITECT/OWNER.

FIVE GUYS®
BURGERS and FRIES
10718 RICHMOND HIGHWAY
LORTON, VA 22079

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Project No.: 2304201 Registration No.: AR - 4446

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DRAWING TITLE
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5 OF 13 SHEETS

AIR DEVICE SCHEDULE						
PLAN MARK	MFR	MODEL	FACE SIZE	NECK SIZE	TYPE	NOTES
S1	TITUS	TMS	24"x24"	SCHEDULE	DIFF.	1,2,3,7
S2	TITUS	TDC	24"x24"	SCHEDULE	DIFF.	2,3,7,8
S3	TITUS	350FL	10"x4"	SCHEDULE	DIFF.	2,3,5,7
S4	LINDAB	RGS-3	25"x6"	24"x6"	DIFF.	1,4,6
R1	TITUS	50F	24"x24"	SCHEDULE	R.G.	2,3,7
E1	TITUS	350FL	12"x12"	SCHEDULE	E.G.	3,5,7

NOTES:

- 4-WAY THROW UNLESS OTHERWISE NOTED.
- PROVIDE ADAPTOR BOOTS AS REQUIRED.
- FINISH SHALL MATCH CEILING FINISH UNLESS OTHERWISE SPECIFIED. VERIFY FINISHES WITH ARCHITECTURAL DRAWINGS PRIOR TO ORDERING.
- EXTRACTOR DAMPER.
- PROVIDE SQUARE TO ROUND ADAPTOR AS REQUIRED.
- SPRAY PAINT RED TO MATCH DUCTWORK. SEE DETAIL FOR ADDITIONAL INFORMATION.
- #26 WHITE IN KITCHEN, PREP, VESTIBULE, AND RESTROOMS, #64 FACTORY BLACK IN DINING ROOM AND HALL.
- 3-WAY AIR THROW PATTERN. DIRECT AIR AWAY FROM KITCHEN HOOD.

COLOR LEGEND:

- NEW MECHANICAL EQUIPMENT
- NEW MECHANICAL SUPPLY
- NEW MECHANICAL RETURN
- NEW MECHANICAL EXHAUST

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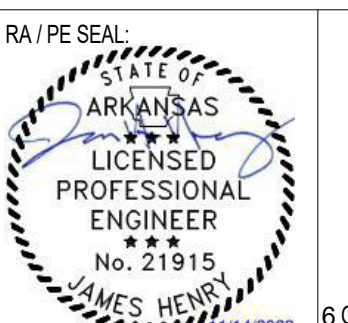
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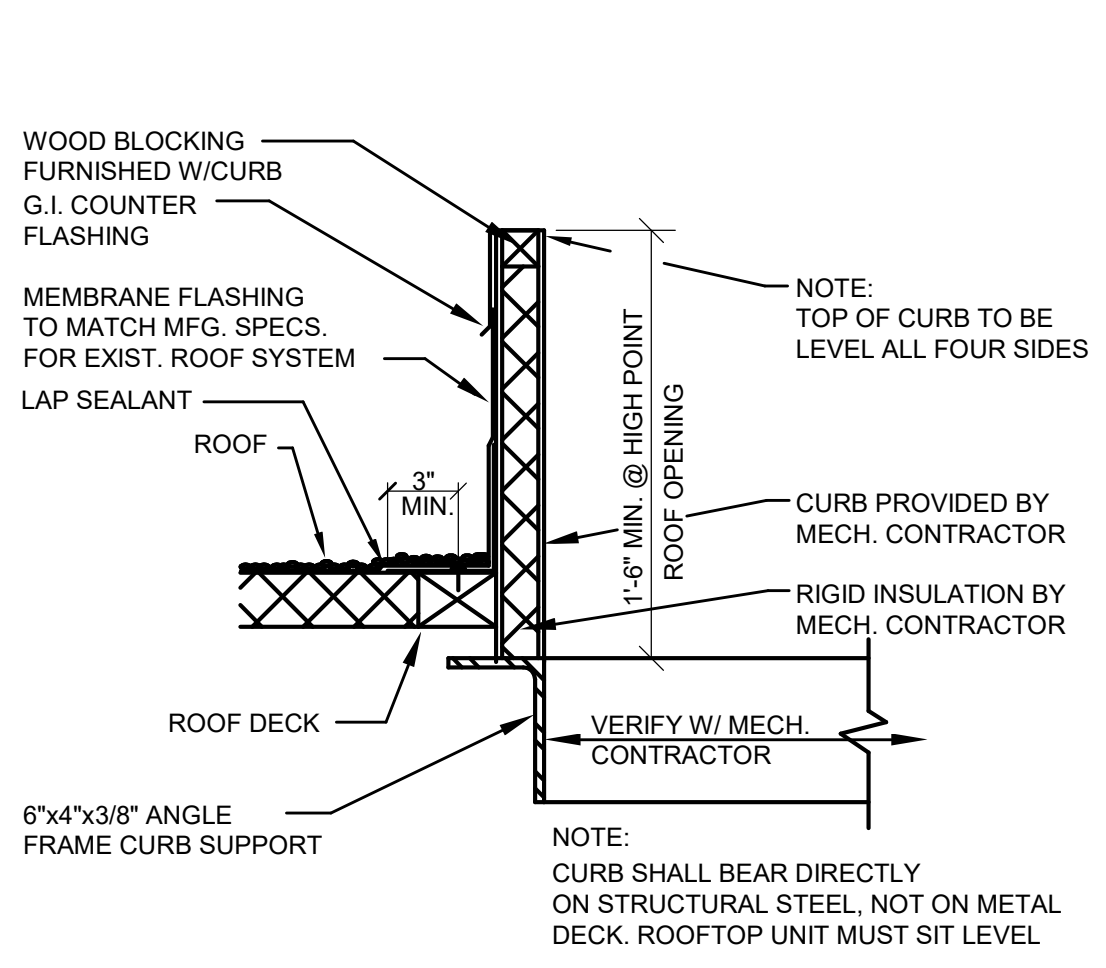
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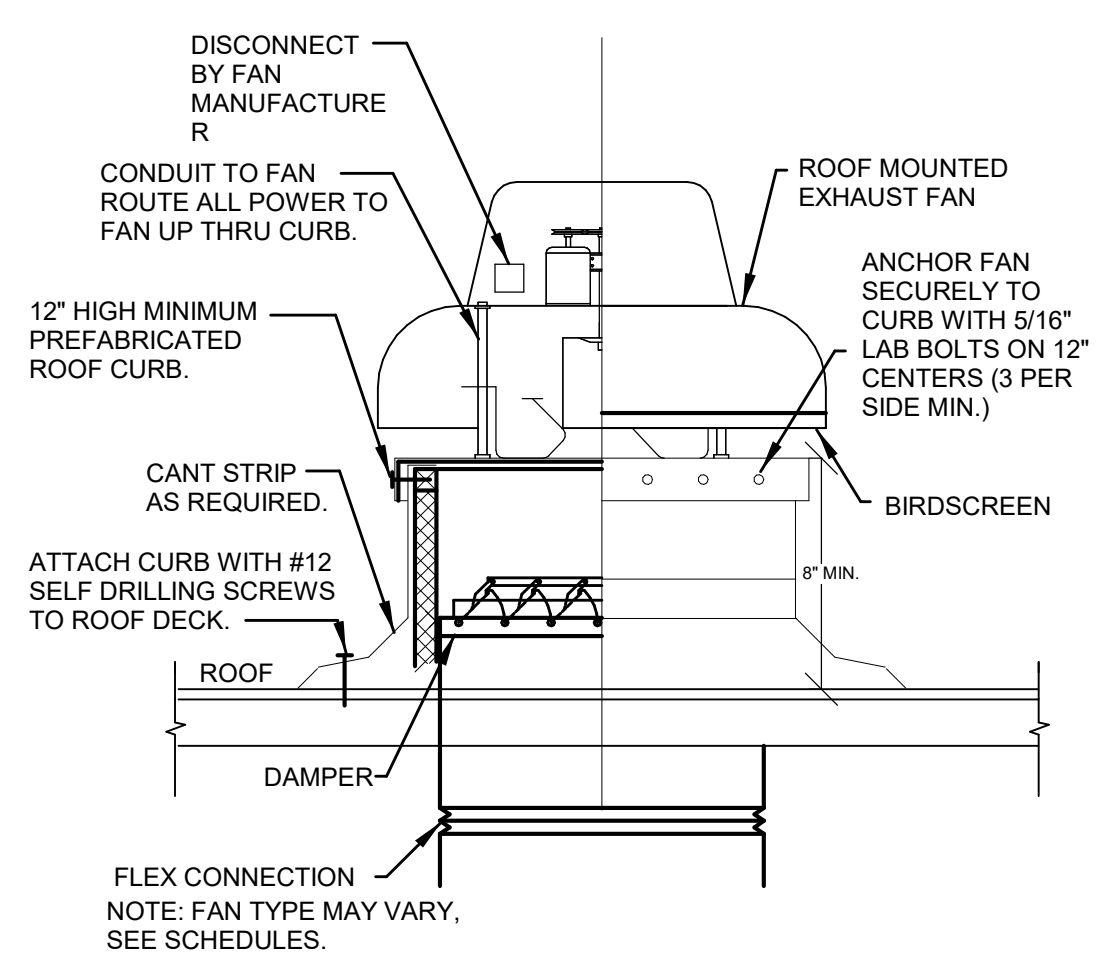
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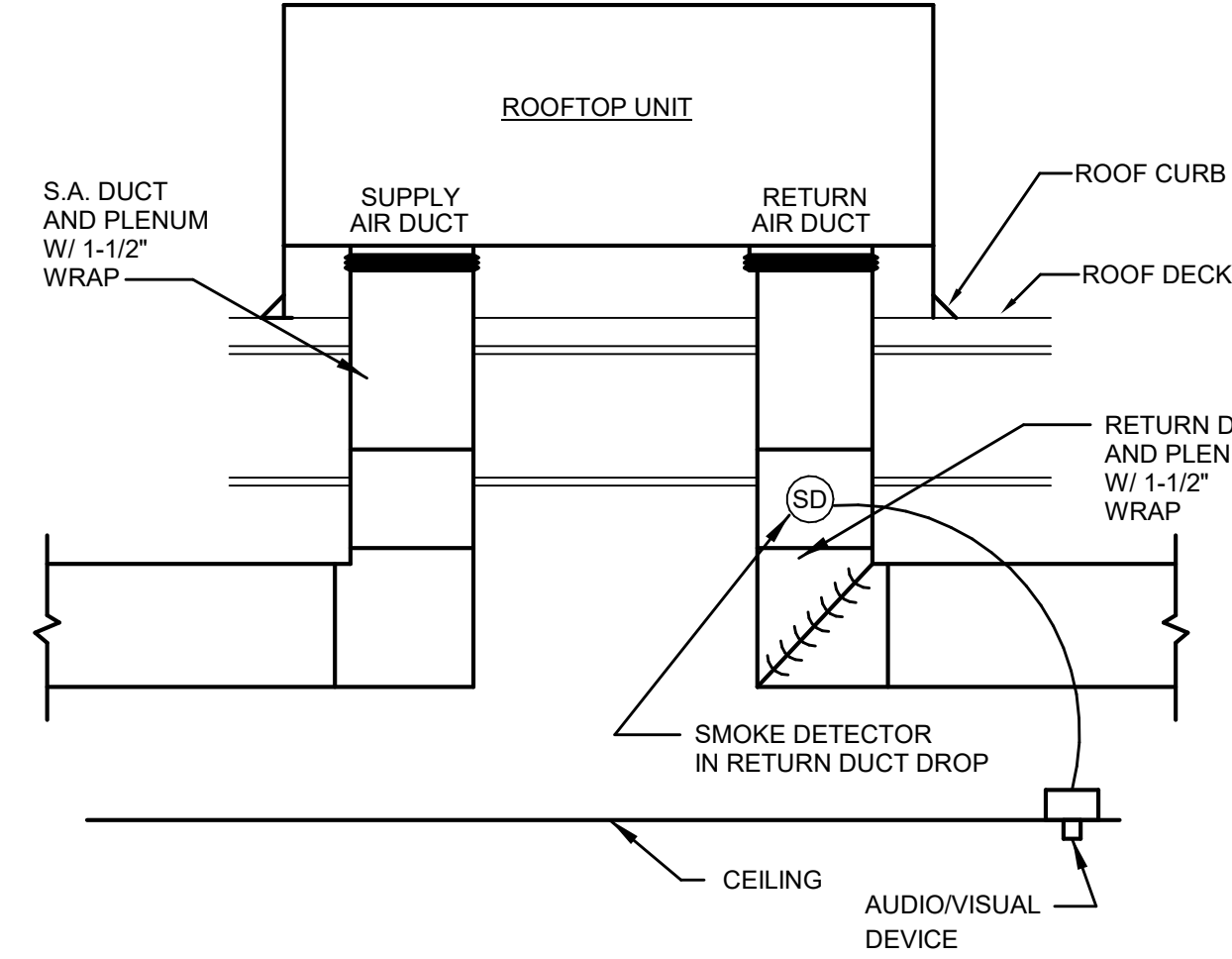
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 6 OF 13 SHEETS



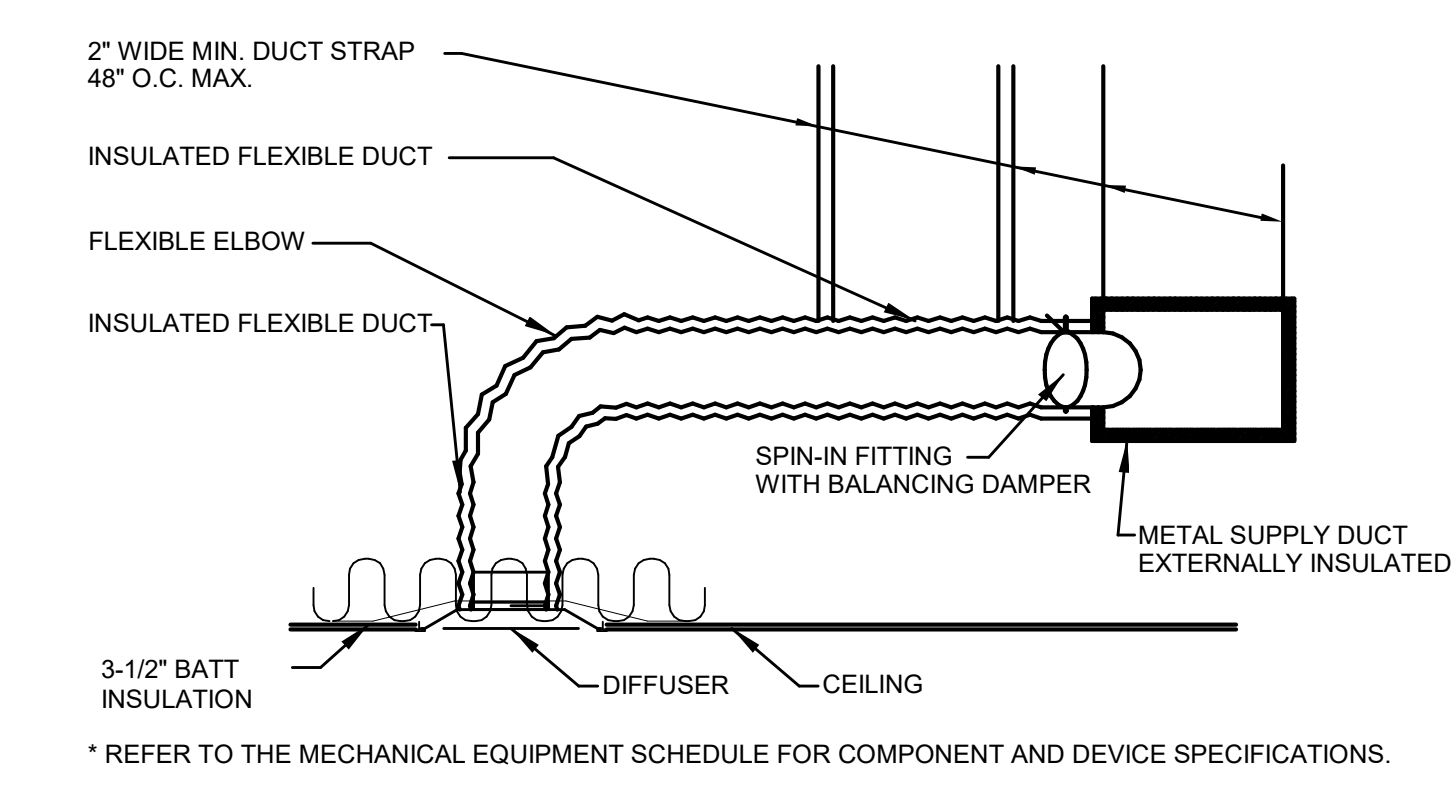
ROOF CURB SECTION



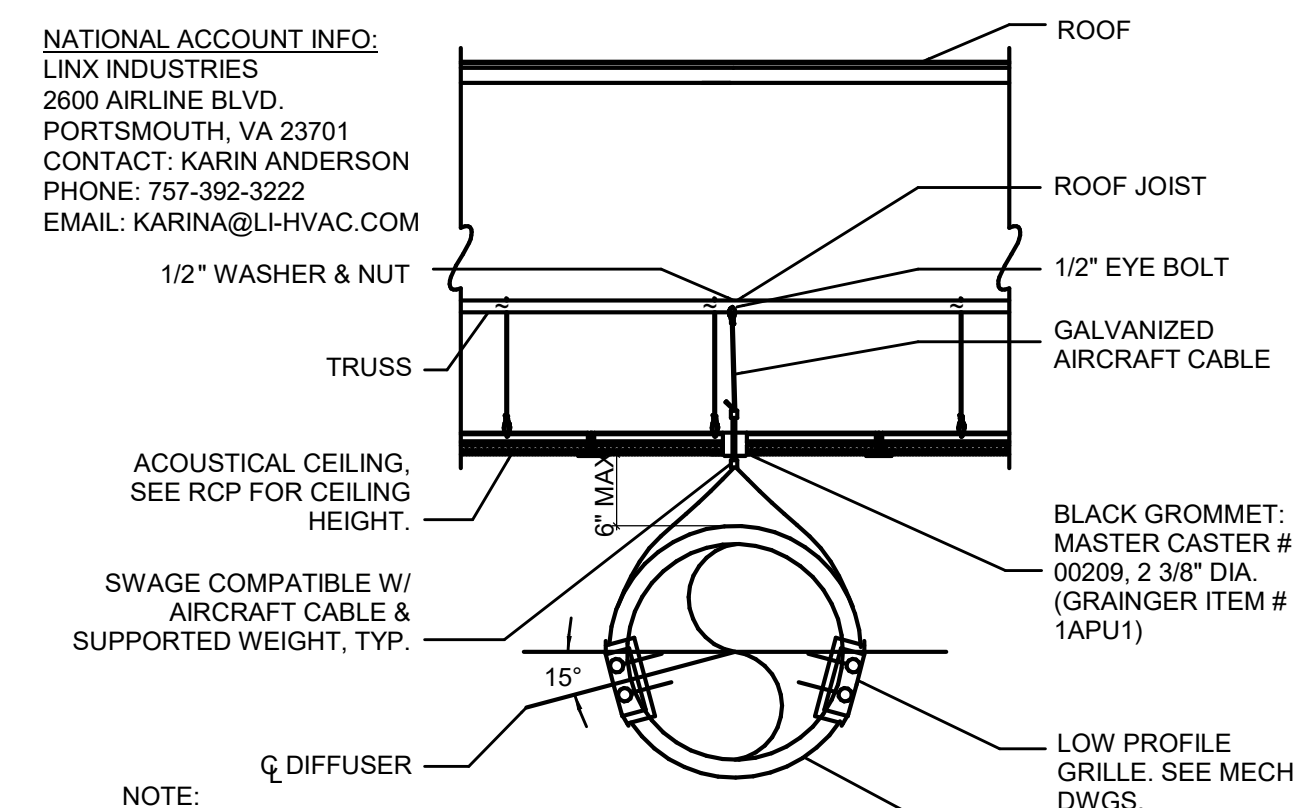
ROOF MOUNTED FAN DETAIL



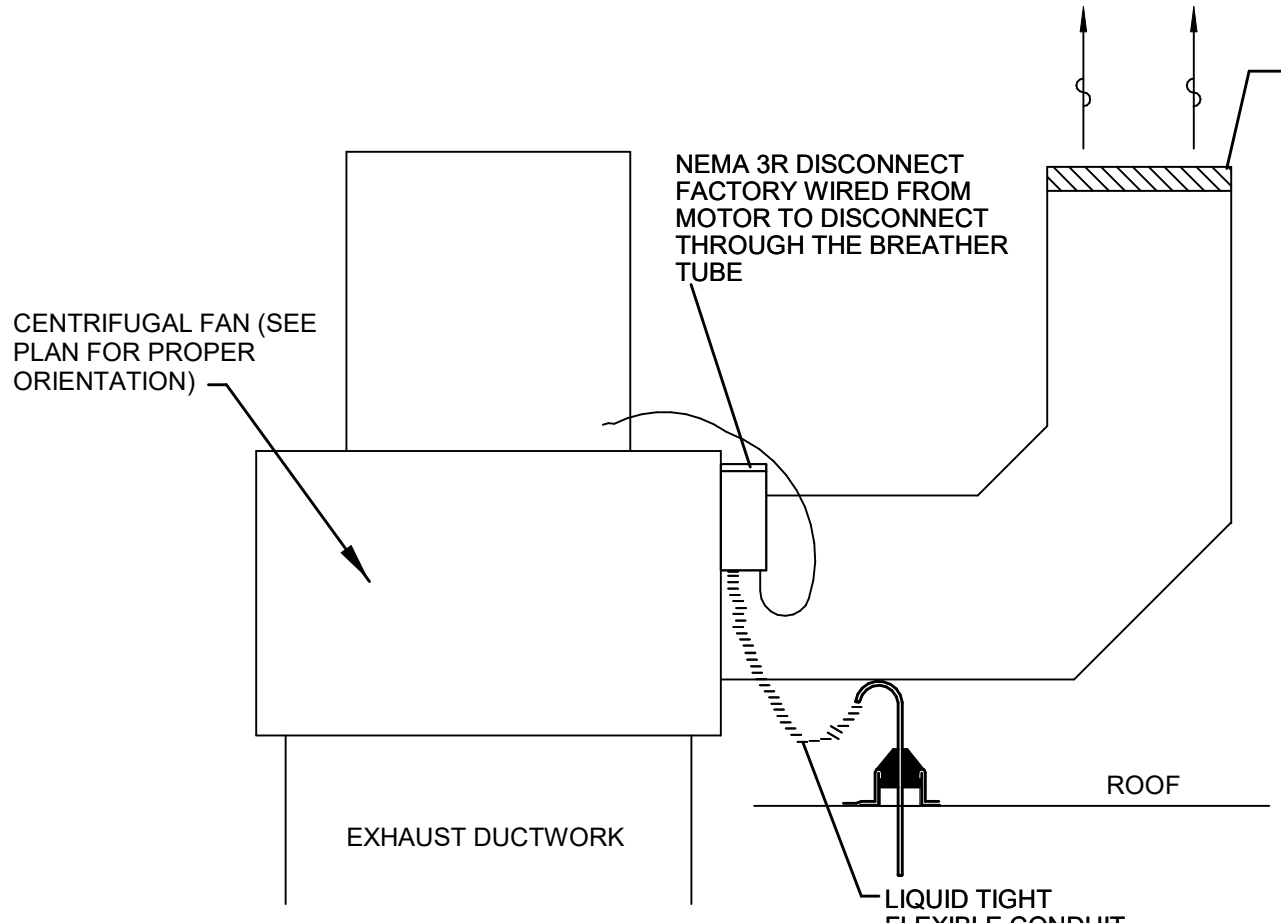
ROOFTOP UNIT MOUNTING DETAIL



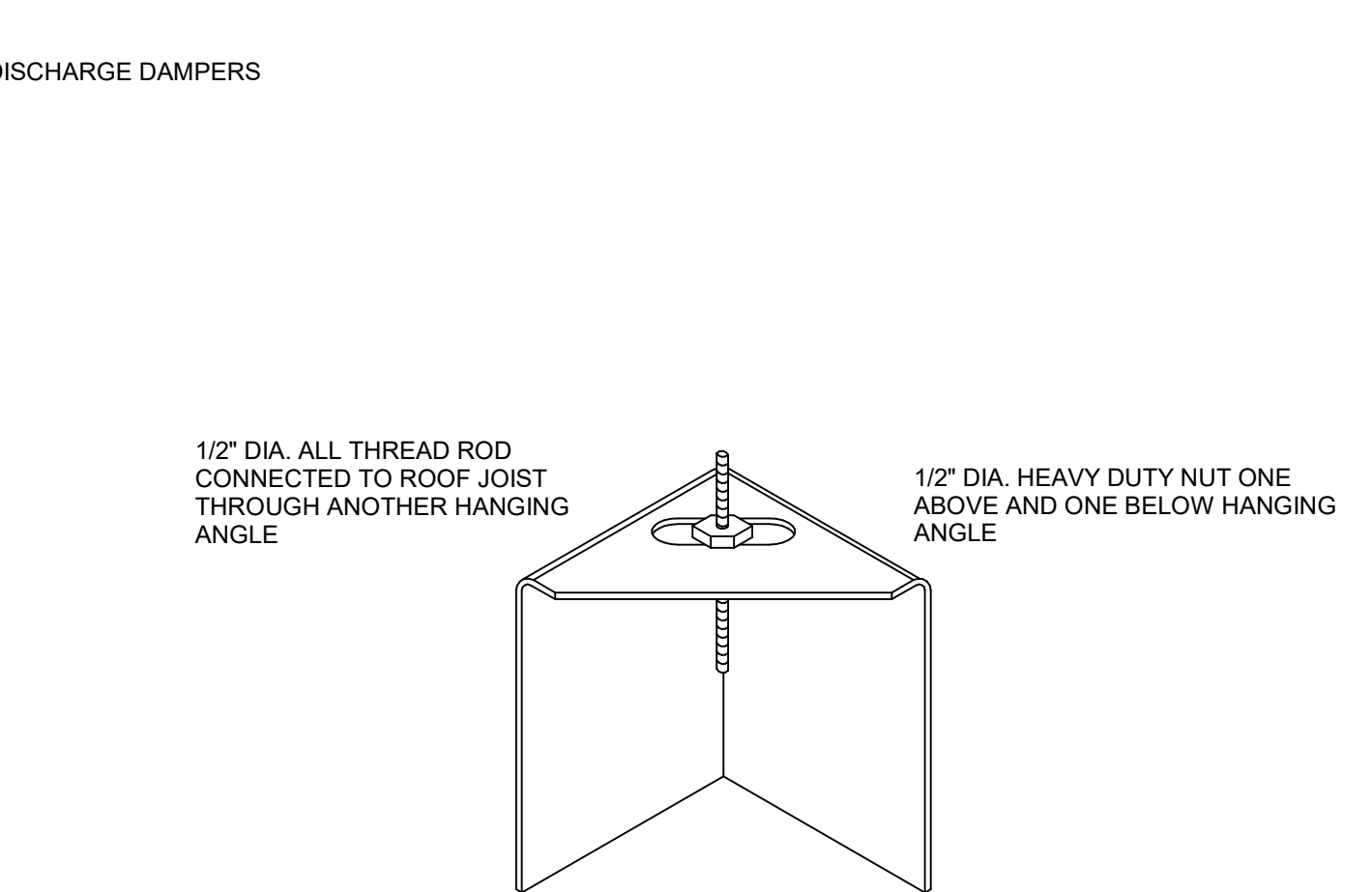
HVAC DUCTWORK DETAIL



EXPOSED DUCT DETAIL



GRILL HOOD EXHAUST FAN DETAIL



HOOD ANGLE HANGING DETAIL

AIR BALANCE SCHEDULE						
UNIT MARK	SUPPLY AIR	OUTSIDE AIR	MAKE-UP AIR	EXHAUST AIR	RETURN AIR	NOTES
RTU-01	3,220	775	--	--	2,445	DINING HVAC
RTU-02	4,455	535	--	--	3,920	KITCHEN HVAC
MAU-01	--	--	2,820	--	--	KITCHEN HOOD
EF-01	--	--	--	-1662	--	KITCHEN HOOD
EF-02	--	--	--	-1852	--	KITCHEN HOOD
EF-03	--	--	--	-200	--	RESTROOMS
EF-04	--	--	--	-50	--	MOP SINK
BLDG. TOTAL	7,675	1,310	2,820	-3,764	7,600	
				HVAC UNITS		1,310
			MAKE-UP			2,820
				TOTAL		4,130
				KITCHEN HOODS		-3,514
				GENERAL EXHAUST		-250
				TOTAL		-3,764
			BALANCE RESULTS			4,130
				EXHAUST		-3,764
				TOTAL		+366

FAN SCHEDULE												
MARK	TYPE	CFM	E.S.P. (IN. W.G.)	DRIVE	MOTOR DATA			SERVES	MFR	MODEL	UNIT WT.	NOTES
					HP	VOLTS	PH					
EF-01	ROOF	1,662	1.375	DIRECT	3.0	208	3	FRYERS	CAPTIVEAIRE	DU180HFA	181	3,4,5,6,8
EF-02	ROOF	1,852	1.375	DIRECT	3.0	208	3	GRILL	CAPTIVEAIRE	CASRE15DD	252	3,4,5,7,8
EF-03	ROOF	200	0.25	DIRECT	1/15	115	1	TOILET	GREENHECK	G-070-VG	24	1,2,9
EF-04	ROOF	50	0.25	DIRECT	1/15	115	1	TOILET	GREENHECK	G-060-VG	21	1,2,9

NOTES:
 1. NEW EXHAUST FAN.
 2. FAN SHALL BE INTERLOCKED WITH RTU THERMOSTATS SO THAT EXHAUST FAN RUNS CONTINUOUSLY DURING OCCUPIED MODE.
 3. HOOD EXHAUST FAN TO BE CONNECTED TO HOOD CONTROL PANELS AND ANSUL SYSTEM.
 4. HOOD EXHAUST FAN TO BE PROVIDED BY KITCHEN EQUIPMENT SUPPLIER.
 5. REFER TO MECHANICAL HOOD DRAWINGS FOR MORE INFORMATION.
 6. GREASE GUARD TO EXTEND 15" ON ALL SIDES OF EXHAUST FAN. INSTALL BEFORE EXHAUST FAN IS ACTIVATED, CALL JAY MAHON AT 331.229.3460.
 7. DRIP GUARD TO BE INSTALLED UNDER FAN. CONTACT JAY MAHON AT 331.229.3460.
 8. REFER TO ARCHITECTURAL SHEET A2-15 FOR MORE INFORMATION ON GREASE GUARDS FOR EXHAUST FANS.
 9. PROVIDE AND INSTALL FACTORY SUPPLIED MOTOR RATED SWITCH.

REMOTE CONDENSING UNIT SCHEDULE									
MARK	MFG	MODEL	REFRIG.	CAPACITY MBH	RL PIPE	RS PIPE	WEIGHT	ELEC	MCA/MOP
E250	BALLY	BEZA009HA-HS2D	R448A	9.181	3/8"	5/8"	188 LBS	208-230/1	11.0 / 15.0

NOTES:
 1. PROVIDE WITH UNIT MOUNTED DISCONNECT.

AIR DEVICE RUNOUT SCHEDULE	
DUCT CFM	DUCT SIZE
0 - 100	6" ROUND
101 - 240	8" ROUND
241 - 449	10" ROUND
450 - 680	12" ROUND
681 - 1030	14" ROUND
1031 - 1250	15" ROUND
1251 - 1450	16" ROUND
1451 - 2000	18" ROUND

GENERAL NOTES:
 1. AIR DEVICE NECK SIZE SHALL BE THE SAME AS RUNOUT SIZE.
 2. RECTANGULAR DUCT SIZES OF EQUIVALENT FREE AREA MAY BE SUBSTITUTED FOR ROUND DUCT.
 3. RUNOUTS MAY BE RIGID OR FLEX DUCT PER SPECIFICATIONS.

MAKEUP AIR UNIT SCHEDULE												
MARK	CFM	E.S.P. (IN. WG)	MOTOR DATA			GAS HEATING DATA		MFR	MODEL	UNIT WT.	NOTES	
			HP	VOLTS	PH	TYPE	MBH IN					MBH OUT
MUA-01	2821	0.650	2.0	208	3	DIRECT	188	173	CAPTIVEAIRE	A2-D-250-G15-MPU	1566	1,2

DIRECT EXPANSION COOLING COIL DATA					CONDENSING UNIT ELEC.			
EAT DB	EAT WB	LAT DB	LAT WB	TOTAL CAP.	SENSIBLE CAP.	VOLTS	PH	MCA
93.0°F	75.0°F	80.3°F	69.9°F	58.3 MBH	38.7 MBH	208	3	21.4

1. REFER TO MECHANICAL HOOD DRAWINGS FOR MORE INFORMATION.
 2. MUA UNIT SHALL BE A MODULAR PACKAGED UNIT WITH FAN, DIRECT FIRED NATURAL GAS HEAT, AND DX COOLING COIL WITH INTEGRAL CONDENSING UNIT.

AIR CURTAIN SCHEDULE					
MARK	LENGTH	COLOR	MFG	ELEC	AMPS
L811	72"	BLACK	MARS	120/1	2.6 A
L813	42"	WHITE	MARS	120/1	5.1 A

NOTES:
 1. PLUG ELECTRICAL CONNECTION. PLUG SERVES AS UNIT DISCONNECT.

HOOD INFORMATION

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	TOTAL EXH. CFM	EXHAUST PLENUM RISER(S)						MUA CFM	AC CFM	HOOD CONSTRUCTION	HOOD CONFIG.		
						WIDTH	LENG.	HEIGHT	DIA.	CFM	VEL.				S.P.	END TO END	ROW
1	GRILLS	5424 ND-2-ACPSP-F	8' 9.00"	600 Deg.	1852			4"	14"	1852	1732	-0.705"	1408	584	430 SS Where Exposed	LEFT	ALONE
2	FRYERS	5424 ND-2-ACPSP-F	9' 9.00"	600 Deg.	1662			4"	14"	1662	1555	-0.594"	1413	584	430 SS Where Exposed	RIGHT	ALONE

HOOD INFORMATION

HOOD NO.	TAG	TYPE	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WGT	
			QTY.	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY.	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM	ELECTRICAL	SWITCHES			
1		Captrate Solo Filter	6	20"	16"	85% See Filter Spec.	3	12" x 12" LED	NO	Left	12"x54"x24"	Ansul R102	3.0/3.0	DCV-2111	1 Light 1 Fan	YES	761 LBS
2		Captrate Solo Filter	7	20"	16"	85% See Filter Spec.	3	12" x 12" LED	NO							YES	639 LBS

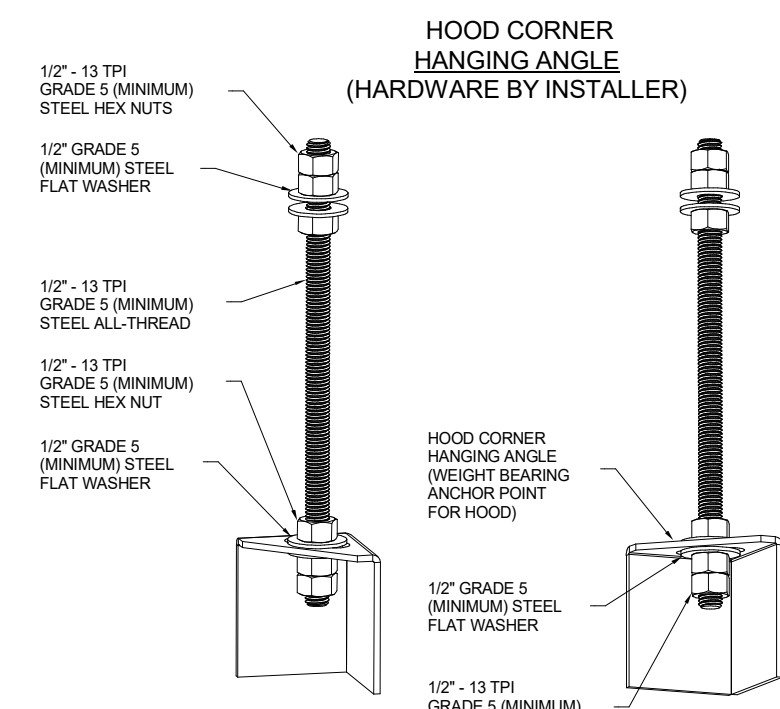
HOOD OPTION

HOOD NO.	TAG	OPTION
1		FIELD WRAPPER 18.00" High Front, Left BACKSPLASH 80.00" High X 234.00" Long 430 SS Vertical LEFT QUARTER END PANEL 23" Top Width, 0" Bottom Width, 23" High 430 SS
2		FIELD WRAPPER 18.00" High Front, Right RIGHT QUARTER END PANEL 23" Top Width, 0" Bottom Width, 23" High 430 SS

PERFORATED SUPPLY PLENUM(S)

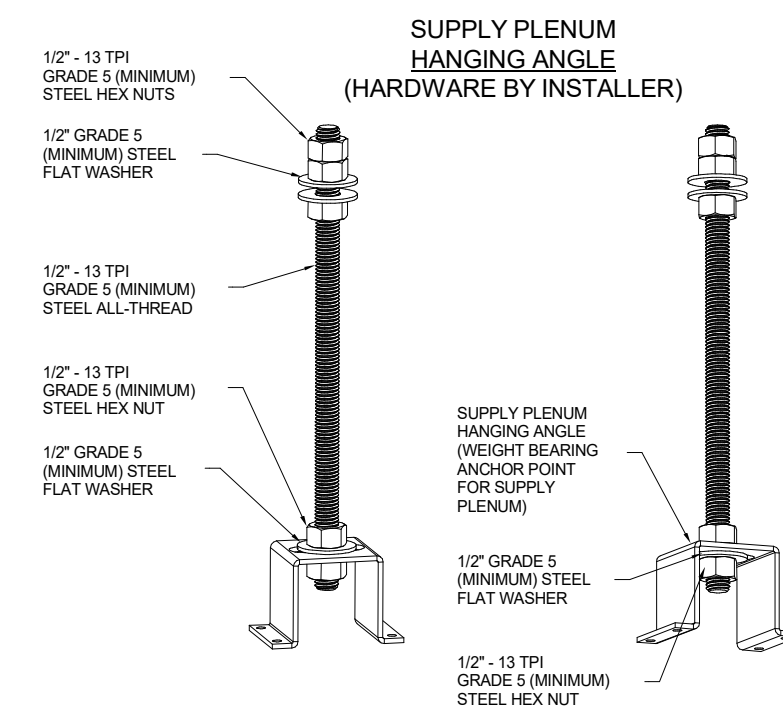
HOOD NO.	TAG	POS.	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
							WIDTH	LENG.	DIA.	CFM	S.P.
1		Front	117"	24"	6"	MUA	12"	28"		706	0.162"
						MUA	12"	28"		706	0.162"
						AC	8"	16"		292	0.079"
						AC	8"	16"		292	0.079"
2		Front	117"	24"	6"	MUA	12"	28"		704	0.161"
						MUA	12"	28"		704	0.161"
						AC	8"	16"		292	0.079"
						AC	8"	16"		292	0.079"

HANGING BRACKET DETAIL



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR PSP HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

BALANCING NOTES:
 Exhaust Requirements
 100-105% OF DESIGN PER HOOD
 MEASURED AT THE EXHAUST FILTER WHILE THE FILTER IS INSTALLED

 Supply Requirements
 95-100% OF DESIGN PER SUPPLY PLENUM
 MEASURED AT THE BOTTOM FACE OF THE PERFORATION (DISCHARGE POINT)

SCOPE OF WORK

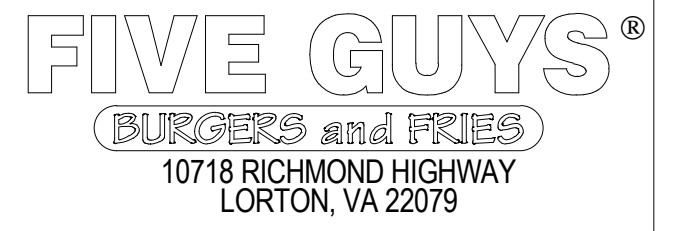
HOOD(S): PROVIDED BY OWNER. INSTALLED BY GC.
 FIRE SYSTEM(S): PROVIDED & INSTALLED BY OWNER.
 EXHAUST FAN(S): PROVIDED BY OWNER. INSTALLED BY GC.
 MAKEUP AIR UNIT(S): PROVIDED BY OWNER. INSTALLED BY GC.
 ELECTRICAL CONTROL(S): PROVIDED BY OWNER. INSTALLED BY GC.
 GC IS RESPONSIBLE FOR COMPLETE START-UP OF EXHAUST FANS AND MAKEUP AIR UNIT PER CAPTIVEAIRE OPERATION & INSTALLATION MANUAL

GREASE DUCT SPECIFICATION

Furnish single-wall, factory built, grease duct for use with Type I kitchen hoods, which conforms to the requirements of NFPA-96. Products shall be ETL listed to UL-1978 for venting air and grease vapors from commercial cooking operations as described in NFPA-96. The duct wall shall be constructed of .036 thick type 430 stainless steel and be available in diameters 8" through 24". All supports, fan adapters, hood connections, fittings and expansion joints required to install grease duct shall be included. Roof penetrations shall comply with listed clearance to combustibles, see "Clearance to Combustibles" guide for details. The grease duct will terminate at the fan adapter plate, will be fully welded to the fan adapter plate and the fan adapter plate will be fastened to the curb using a suitably sized fastener provided by others; see page 12 of the "Installation, Operation and Maintenance Manual" for details. Grease duct joints shall be held together by means of formed vee clamps and sealed with 3M Fire Barrier 2000+. Screws used to secure the vee clamps shall be of the hex-head type with flanged stops and tapered "lead in" threads for easy starting. Nuts shall be retained by means of a free-floating cage to allow easy alignment. Single-Wall Grease Duct shall be installed in accordance with the manufacturer's "Installation, Operation and Maintenance Manual", ETL listing and state and local codes. Grease duct installed outside of the building shall be protected against accidental damage or vandalism. Support vertically installed grease duct from the building structure using rigid structural supports. Anchor supports to the structure by welding or bolting steel expansion anchors or concrete inserts. Support horizontally installed grease duct from the building structure using above method or use Duct Mate, Wire Rope & Clutchers, part numbers WR20 & CL20. 1/2" Threaded rod and saddles may also be used for the support of horizontal grease duct. Fans shall be supported independently from the grease duct sections. Protect grease duct from twisting or movement caused by fan torque or vibration.

FOR REFERENCE ONLY

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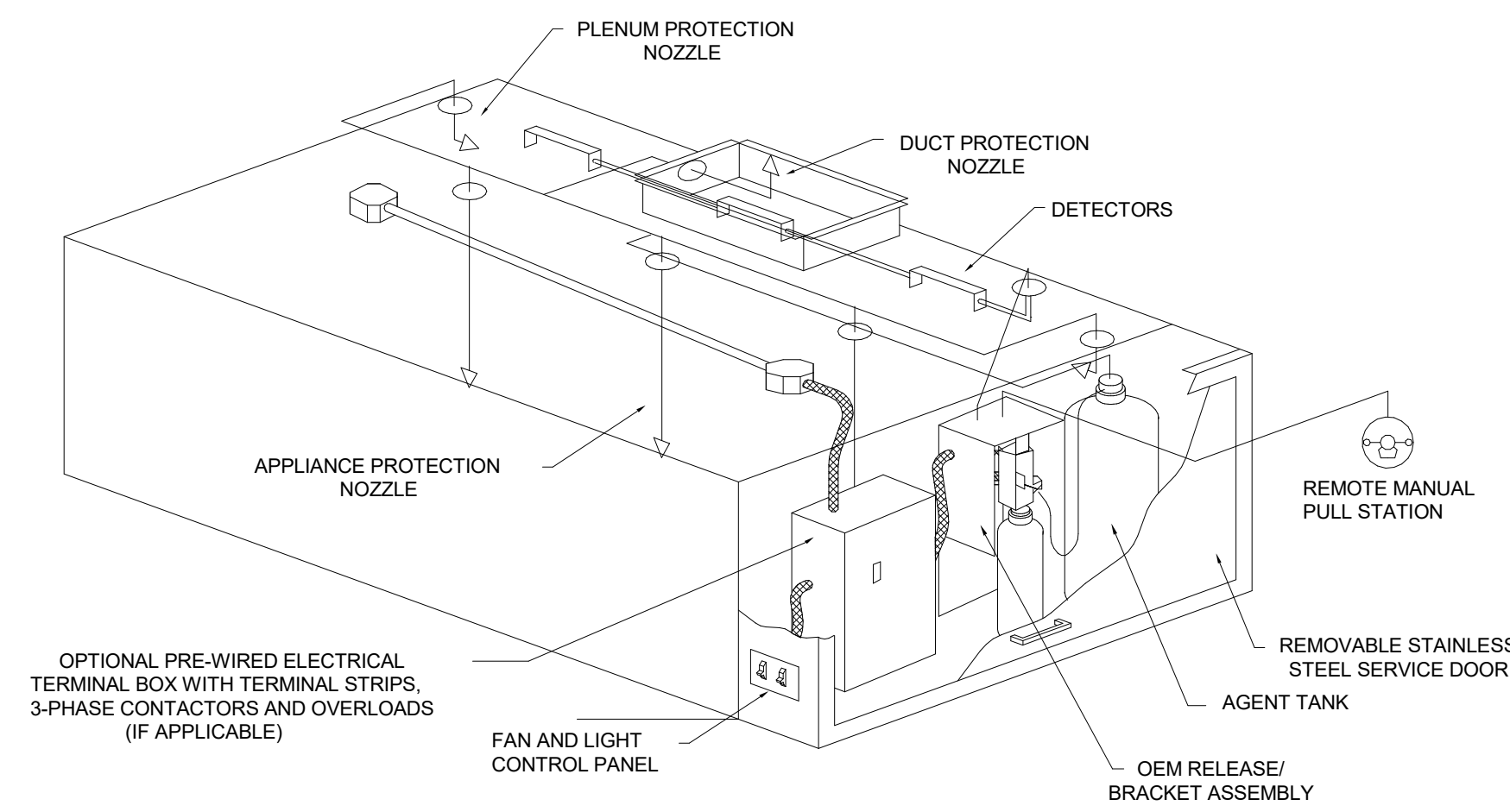
PROJECT:
 FIVE GUYS BURGERS & FRIES
 STORE No.
 BUILDING No. 2
 1229 - 1241 MARTIN LUTHER KING BLVD.
 FAYETTEVILLE, ARKANSAS 70721

DRAWING TITLE
KITCHEN HOOD DRAWINGS

DATE: 11/28/2023 3:28:26 PM
 PROJECT No.: 2304201
 DRAWN BY: JHH
 CHECKED BY: PJW

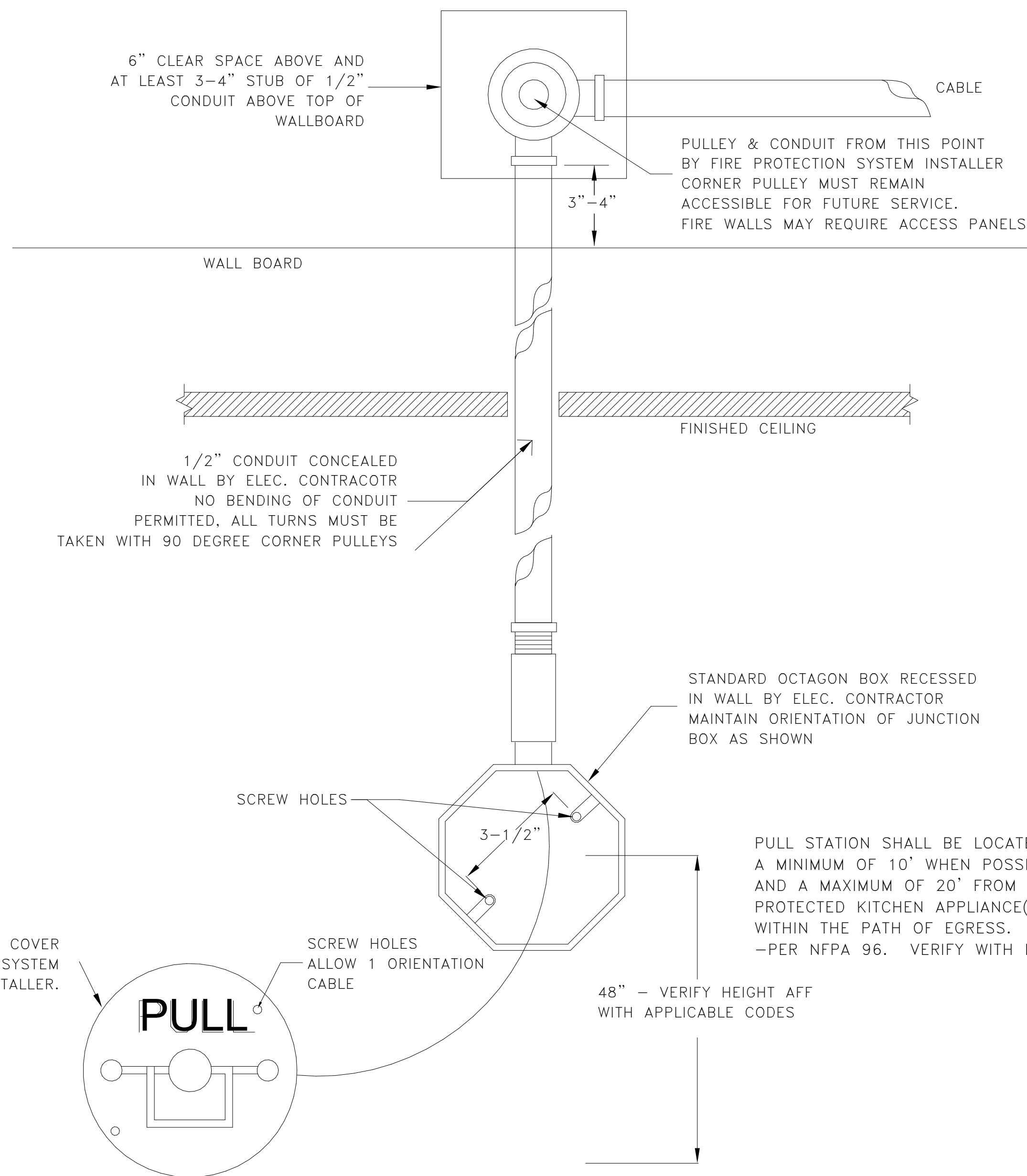
RA / PE SEAL:

M6.1
 7 OF 13 SHEETS



TYPICAL ANSUL R-102 SYSTEM LAYOUT

TYPICAL ANSUL R102 SYSTEM LAYOUT
 NOTE: FIRE SYSTEM TO INCLUDE ALL NECESSARY PERMITS, FIELD HOOKUP, AND FINAL TEST.
 NOTE: FIRE SYSTEM ENCLOSURE WILL BE FACTORY-MOUNTED ON RIGHT SIDE OF THE RIGHT HOOD



RECESSED REMOTE FIRE PROTECTION PULL STATION DETAIL

BOX AND CONDUIT INSTALLED & SECURED BY ELECTRICAL TRADE
 FIRE SYSTEM INSTALLATION TO BE BY AUTHORIZED ANSUL DISTRIBUTOR

FOR REFERENCE ONLY

CAPTIVE
 MARYLAND OFFICE
 2221 Kansas Ave, Silver Spring, MD, 20910 PHONE: (800) 988-0881 FAX: (919) 227-5831 EMAIL: reg32@captivewear.com

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RA / PE SEAL:

M6.3
 9 OF 13 SHEETS

EXHAUST FAN INFORMATION -

FAN UNIT NO.	TAG	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	B.H.P.	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS.)	SONES
1	FRYERS	DU180HFA	1852	1.375	1103	3.000	0.6680	3	208	9.5	181	13.2
2	GRILL	CASRE15DD	1750	1.375	1634	3.000	1.0840	3	208	8.7	1286 FPM	252

CONDENSER

FAN UNIT NO.	TAG	FAN UNIT MODEL #	CONDENSER NO.	TONNAGE	VOLTAGE	PHASE	FREQUENCY	MCA	RLA	MAX FUSE SIZE	MIN WIRE SIZE	SEER
3		A2-D.250-G15-MPU	1	5	208-230	3 PHASE	60 Hz	21.4 Amps	17.4 Amps	30 Amps	12 AWG	14

FAN DETAILS

FAN UNIT NO.	TAG	OPTION (Qty. - Descr.)
1	FRYERS	1 - Grease Box
2	GRILL	1 - RE15 - Rain Cap Assembly - Includes Hardware And Gasket. 1 - AC Interlock Relay - 24VAC Coil 1 - Motorized Backdraft Damper for A2-D Housing 1 - Low Fire Start 1 - Inlet Pressure Gauge, 0-35" 1 - Manifold Pressure Gauge, -5 to 15" wc 1 - Cooling Thermostat and Relay (Not req. for evap) 1 - 5 Ton Single Circuit Modular Packaged Cooling Option for Size 2 MUA (2,000 to 3,000 cfm), 209V/220V, 3 phase. Cooling Thermostat or Programmable Stat Required for Proper Operation. 1 - Full Cooling Fan Commercial Heater 1 - Downturn Plenum for Size 2 DX Coil Module

GAS FIRED MAKE-UP AIR

FAN UNIT NO.	TAG	INPUT BTUs	OUTPUT BTUs	TEMP. RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE
3		188762	173661	57 deg F	7 in. w.c. - 14 in. w.c.	Natural

MUA FAN INFORMATION -

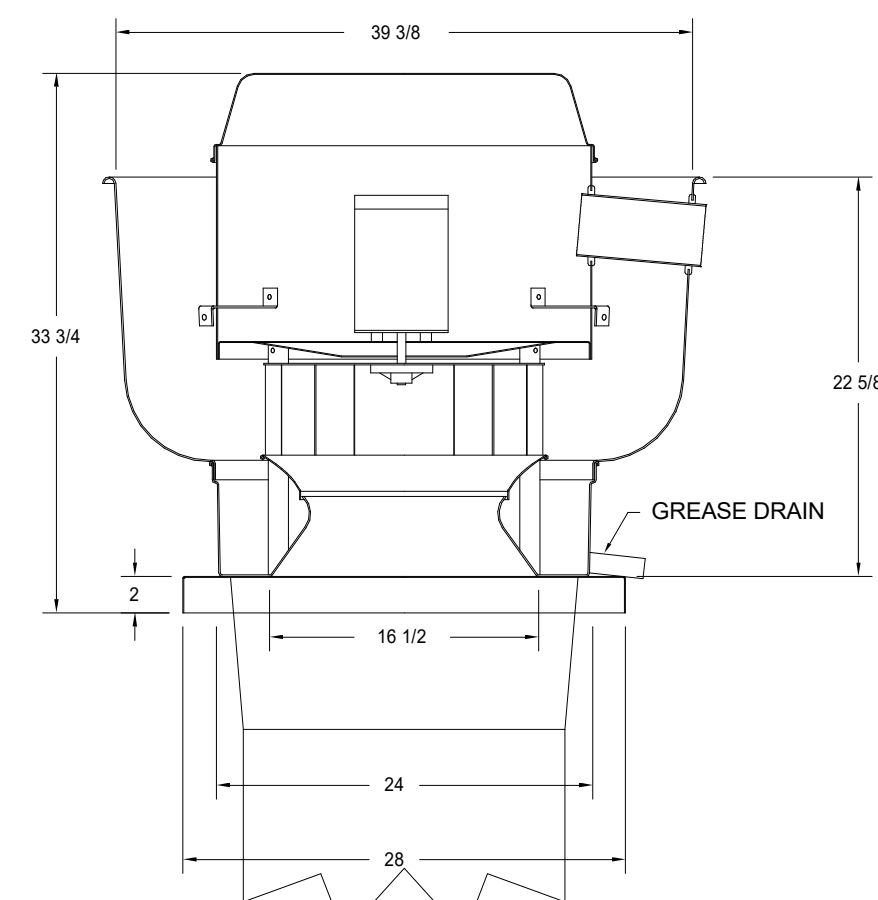
FAN UNIT NO.	TAG	FAN UNIT MODEL #	BLOWER	HOUSING	DESIGN CFM	ESP.	RPM	H.P.	B.H.P.	VOLT	FLA	COOLING COIL ENTERING DB TEMP.	COOLING COIL ENTERING WB TEMP.	COOLING COIL LEAVING DB TEMP.	COOLING COIL LEAVING WB TEMP.	COOLING COIL TOTAL CAPACITY	COOLING COIL SENSIBLE CAPACITY	COOLING COIL LATENT CAPACITY	WEIGHT (LBS.)	SONES	BURNER EFFICIENCY(%)	
3		A2-D.250-G15-MPU	G15-PB	A2-D.250	2821	0.650	908	2.000	1.5370	3	208	5.9	93.0°F	75.0°F	80.3°F	69.9°F	58.3 MBH	38.7 MBH	19.6 MBH	1566	15.4	92

CURB

FAN UNIT NO.	TAG	WEIGHT	ITEM	SIZE
1	# 1	34 LBS	Curb	26.500"W x 26.500"L x 26.000"H Vented Hinged
2	# 2	37 LBS	Curb	23.000"W x 23.000"L x 24.000"H Vented
3	# 3	76 LBS	Curb	31.000"W x 79.000"L x 20.000"H Insulated
	# 3		Rail	6.000"W x 31.000"L x 20.000"H

FAN #1 DU180HFA
EXHAUST FAN FOR HOOD COVERING FRYERS

FAN #1 DU180HFA - EXHAUST FAN (FRYERS)



FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762
- VARIABLE SPEED CONTROL
- INTERNAL WIRING
- WEATHERPROOF DISCONNECT
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE)
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

NORMAL TEMPERATURE TEST

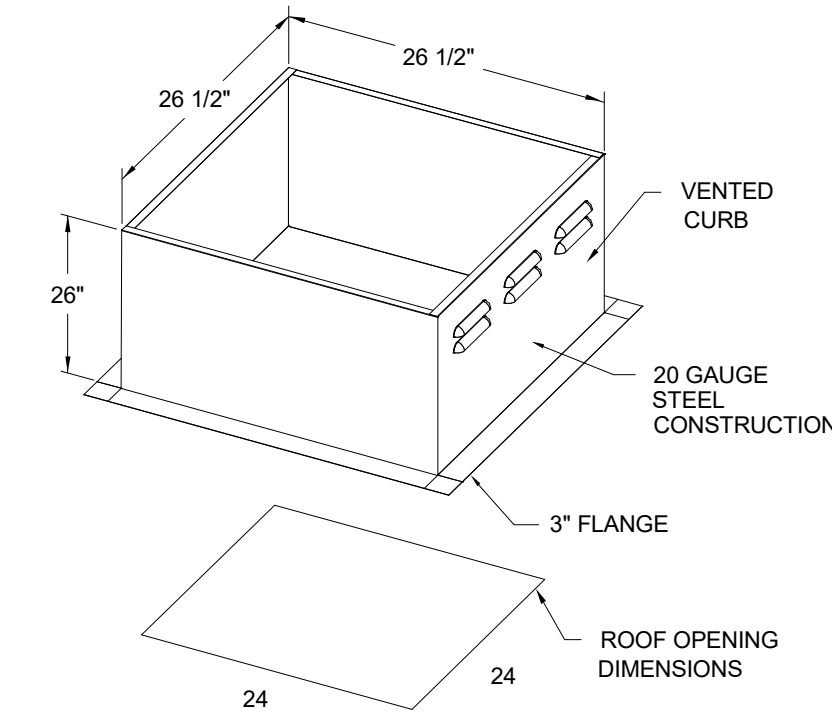
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST

EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

- GREASE BOX

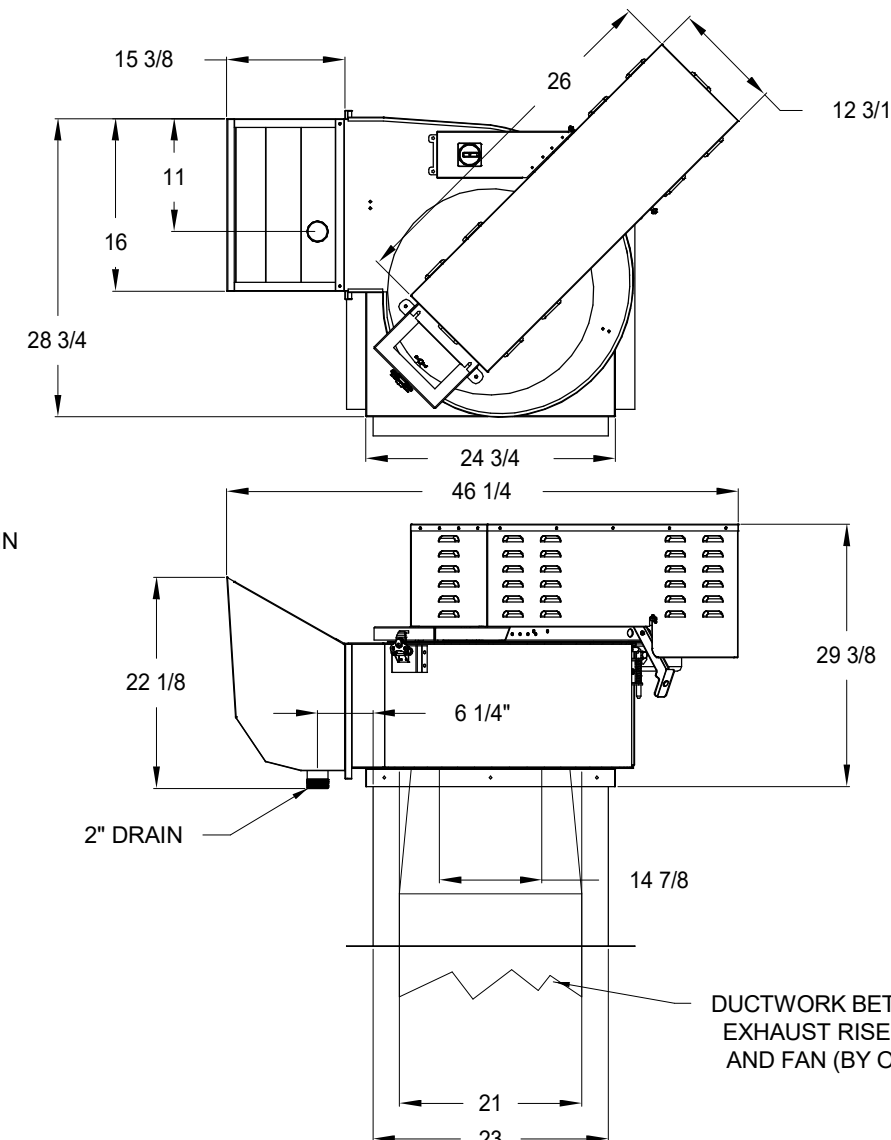
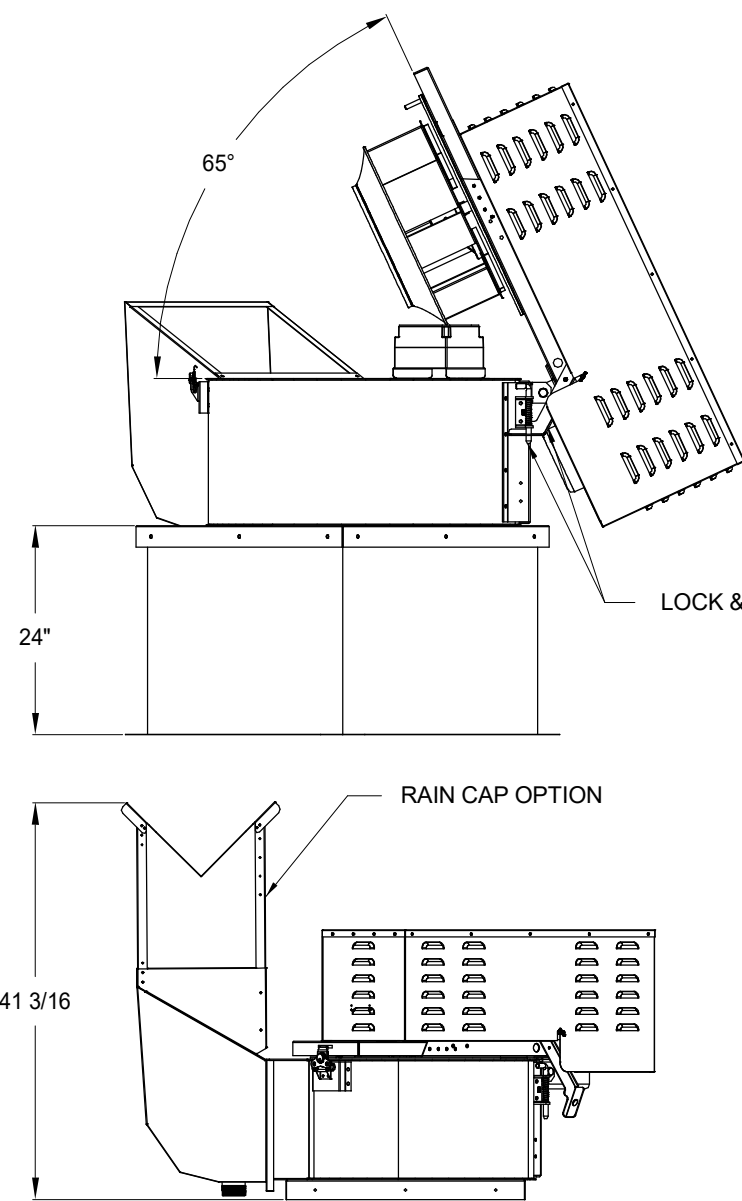


PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE

FAN #2 CASRE15DD

EXHAUST FAN FOR HOOD COVERING GRILLS



FEATURES:

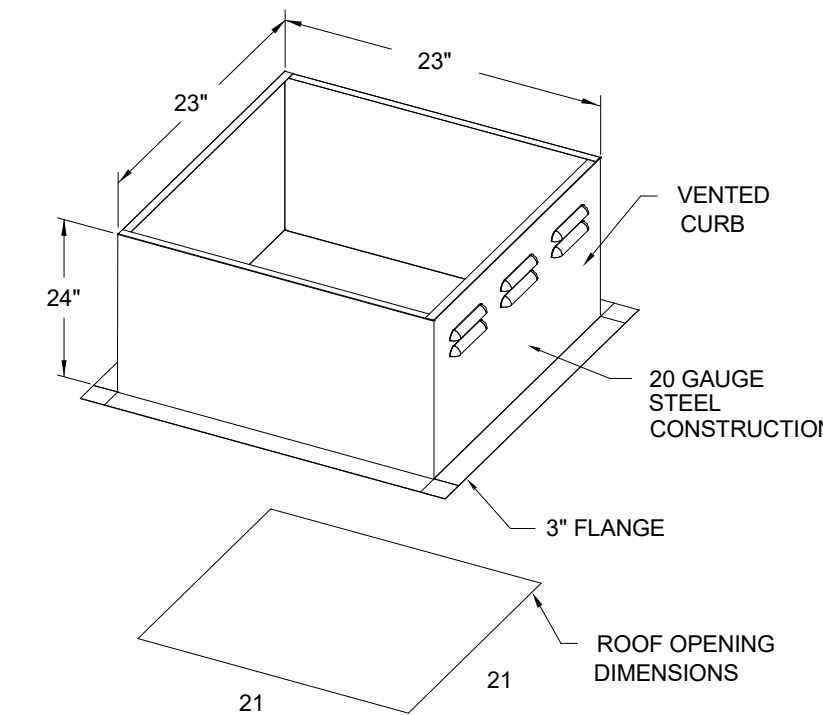
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL762
- HIGH HEAT OPERATION DIRECT DRIVE 300°F (149°C)
- HIGH HEAT OPERATION BELT DRIVE 500°F (260°C)
- HEAT SLINGER
- GREASE CLASSIFICATION TESTING
- TILT OUT WHEEL
- LOCKING PIN FOR POWER PACK
- MOTOR WEATHER COVER
- INTERLOCKED DISCONNECT SWITCH

NORMAL TEMPERATURE TEST DIRECT DRIVE
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST BELT & DIRECT DRIVE
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

- RE15 - RAIN CAP ASSEMBLY - INCLUDES HARDWARE AND GASKET.



ATTENTION!
INSTALLER MUST READ LABEL NEAR DISCONNECT SWITCH!
MESSAGE ON LABEL:
"INSTALLER SHOULD SUPPLY ENOUGH ELECTRICAL CORD TO LET FAN MAKE COMPLETE SWING"

IMPORTANT INSTALLATION NOTES:
- ELECTRICAL CONNECTION SHOULD BE MADE ON THE HINGE SIDE OF THE EXHAUST FANS TO ENSURE FANS CAN BE HINGED FOR CLEANING
- RAIN CAP MUST BE FIELD INSTALLED ON FAN #2 AT THE HEIGHT AND ORIENTATION SHOWN ON DETAIL

SCOPE OF WORK
HOOD(S): PROVIDED BY OWNER. INSTALLED BY GC.
FIRE SYSTEM(S): PROVIDED & INSTALLED BY OWNER.
EXHAUST FAN(S): PROVIDED BY OWNER. INSTALLED BY GC.
MAKEUP AIR UNIT(S): PROVIDED BY OWNER. INSTALLED BY GC.
ELECTRICAL CONTROL(S): PROVIDED BY OWNER. INSTALLED BY GC.
GC IS RESPONSIBLE FOR COMPLETE START-UP OF EXHAUST FANS AND MAKEUP AIR UNIT PER CAPTIVEAIRE OPERATION & INSTALLATION MANUAL

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CAPTIVEAIRE
MARYLAND OFFICE
2221 Kansas Ave. Silver Spring, MD, 20910 PHONE: (800) 988-0881 FAX: (919) 222-5931 EMAIL: reg@captveaire.com

Five Guys - GRILLS Left
Fayetteville, AR

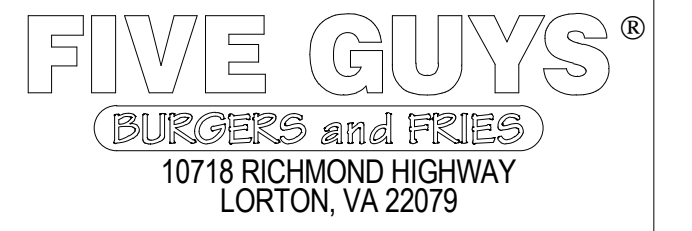
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NOT TO SCALE

MASTER DRAWING

4



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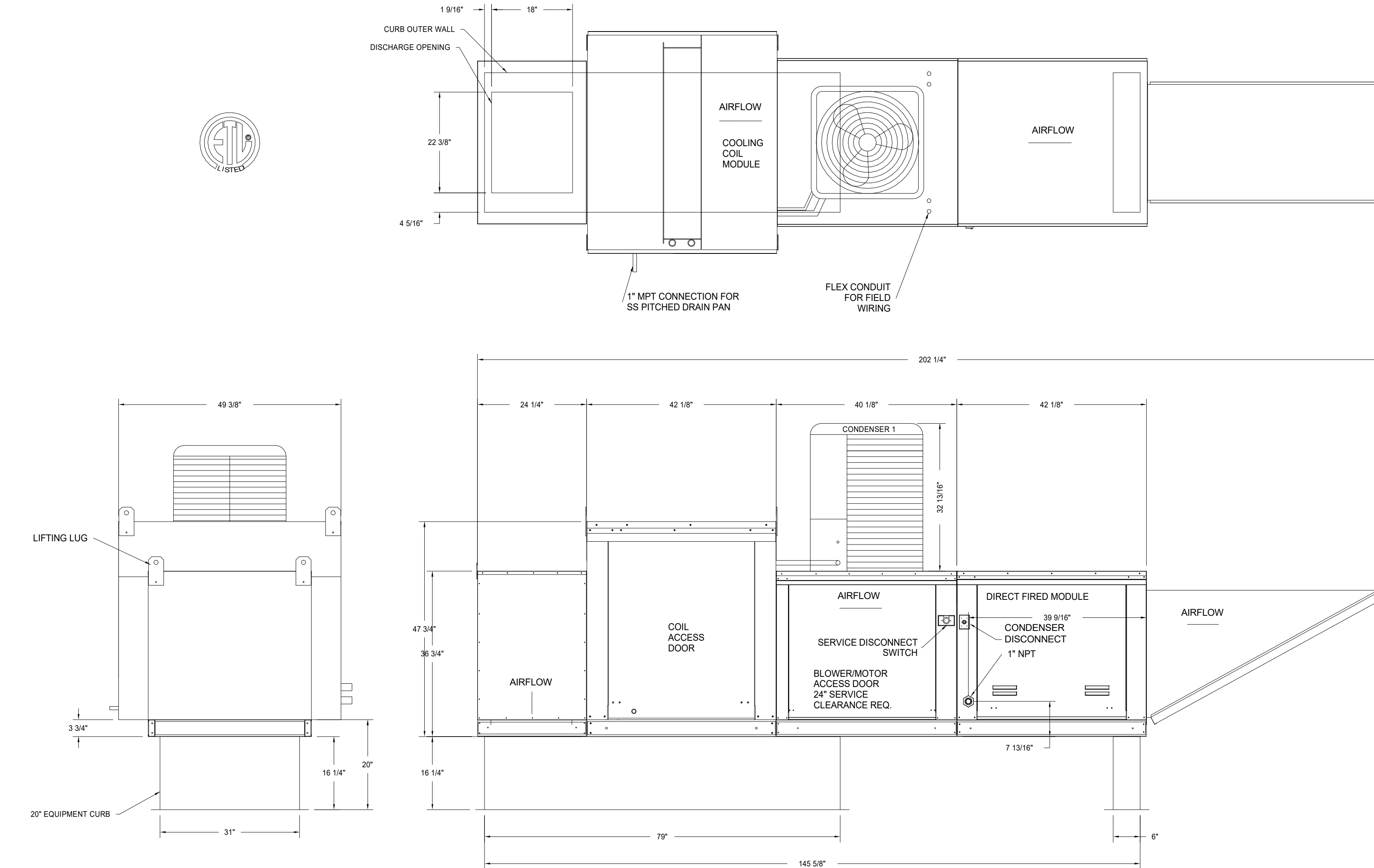
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10 OF 13 SHEETS

- FAN #3 A3-D-250-G15-MPU - HEATER
 1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 15" BLOWER
 2. INTAKE HOOD WITH EZ FILTERS
 3. DOWN
 DISCHARGE - AIR FLOW RIGHT -> LEFT
 4. COOLING INTERLOCK RELAY: 24VAC COIL. 120V CONTACTS. LOCKS OUT BURNER CIRCUIT WHEN AC IS ENERGIZED.
 5. MOTORIZED BACK DRAFT DAMPER 22.75" X 24" FOR SIZE 2 STANDARD & MODULAR HEATER AND UNTEMPERED UNITS W/EXTENDED SHAFT. STANDARD GALVANIZED CONSTRUCTION. 3/4" REAR FLANGE. 1P/2SS ACTUATOR INCLUDED
 6. LOW FIRE START - ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION
 7. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE
 8. GAS PRESSURE GAUGE
 9. 5 TON, SINGLE CIRCUIT MODULAR PACKAGED COOLING OPTION FOR SIZE 2 MODULAR PACKAGED UNIT. INCLUDES CONDENSER, DX COIL, FILTER/DRYER KIT, THERMAL EXPANSION VALVE, R410A REFRIGERANT, AND REFRIGERANT PIPING. (2,000 TO 3,000 CFM). NOT BUILT WITH OPPOSITE SIDE CONTROLS OR OPPOSITE AIRFLOW DIRECTION. CONDENSERS REQUIRE SEPARATE 208V, 3 PHASE POWER SUPPLY. COIL = SEZ1001R
 10. 5 TON, SINGLE CIRCUIT MODULAR PACKAGED COOLING OPTION FOR SIZE 2 MODULAR PACKAGED UNIT. INCLUDES CONDENSER, DX COIL, FILTER/DRYER KIT, THERMAL EXPANSION VALVE, R410A REFRIGERANT, AND REFRIGERANT PIPING. (2,000 TO 3,000 CFM). NOT BUILT WITH OPPOSITE SIDE CONTROLS OR OPPOSITE AIRFLOW DIRECTION. CONDENSERS REQUIRE SEPARATE 208V, 3 PHASE POWER SUPPLY. COIL = SEZ1001R
 11. FULL COATING FOR COMMERCIAL HEATERS FOR SHIPPING
 12. DOWNTURN PLENUM FOR SIZE 2 COOLING COIL MODULE - REQUIRED FOR DOWN DISCHARGE COOLING COIL APPLICATIONS

SUPPLY SIDE HEATER INFORMATION:
 WINTER TEMPERATURE = 18°F. TEMP. RISE = 57°F.
 BTUs CALCULATED OFF STANDARD AIR DENSITY
 OUTPUT BTUs AT ALTITUDE OF 0.0 ft. = 173661
 INPUT BTUs AT ALTITUDE OF 0.0 ft. = 188762



Direct Fired (DF) Profile Plate Assembly
 Description:
 Direct fired burners shall have patented (US Patent No. US682923B2), self-adjusting profile plates designed to ensure proper air velocity and pressure drop across the burner. Profile plates shall allow burners to achieve clean combustion by limiting by-product levels to a maximum of 5ppm of carbon monoxide (CO), and 0.5ppm of nitrogen dioxide (NO2).
 Application:
 Spring-loaded burner profile plates are engineered to automatically react to the momentum of a fresh air stream, without the need for any motor or actuators to mechanically adjust them. With this feature, all DF units are designed for demand control ventilation (DCV) requirements.
 Certifications:
 All profile plate assemblies shall be included in the DF unit's ETL listing and comply with combined safety standards ANSI Z83.4 and CSA 3.7 (non-recirculating DF heaters) and ANSI Z83.18 (recirculating DF heaters).
 General Construction:
 Profile plates shall be formed from G30 galvanized steel.
 Profile plates shall vary in size per unit.
 Profile plates shall be mounted along the same plane as the discharge of the burner.
 Design shall incorporate properly torqued, permanently mounted spring hinges.
 Spring hinges shall be made from plated steel.

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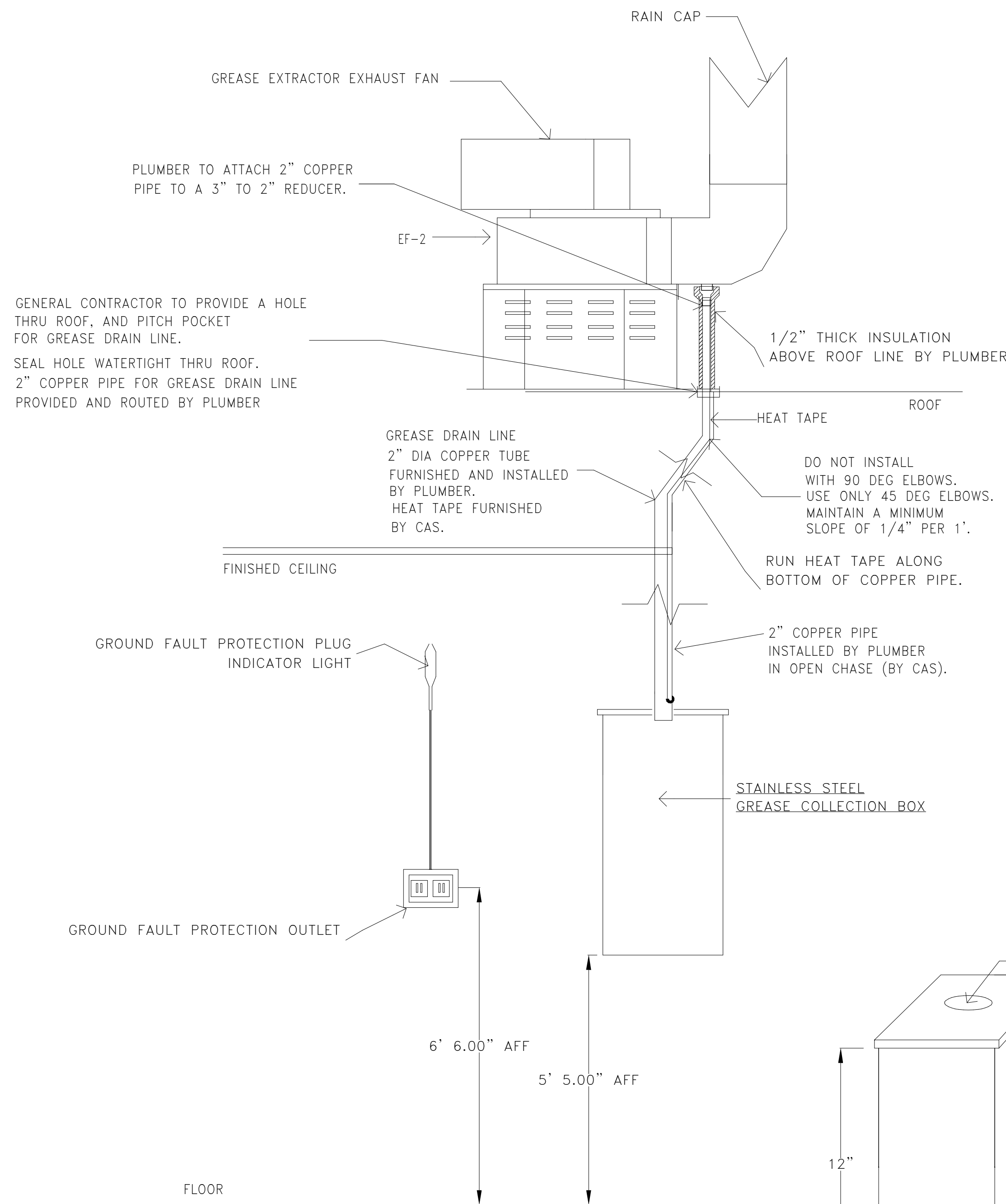
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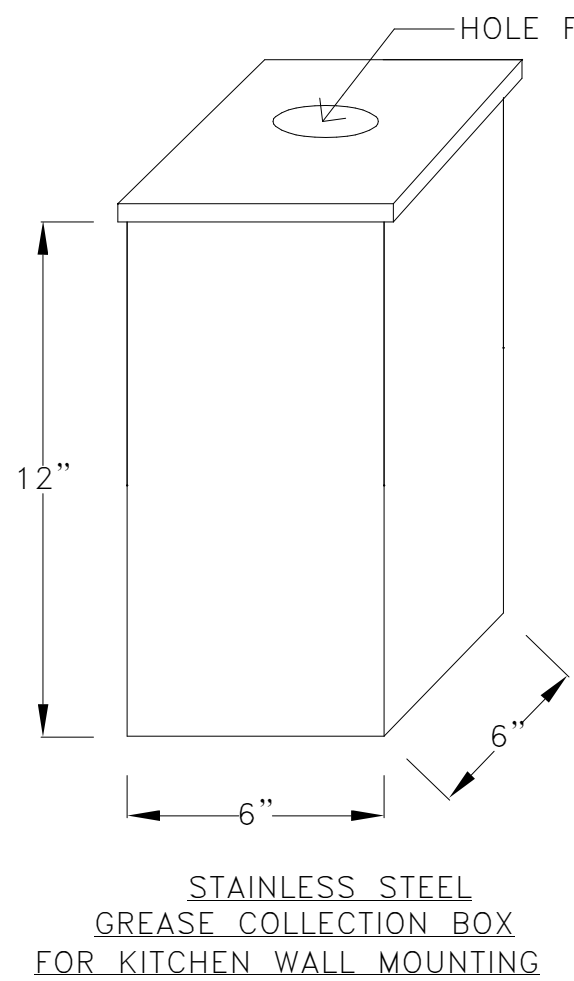
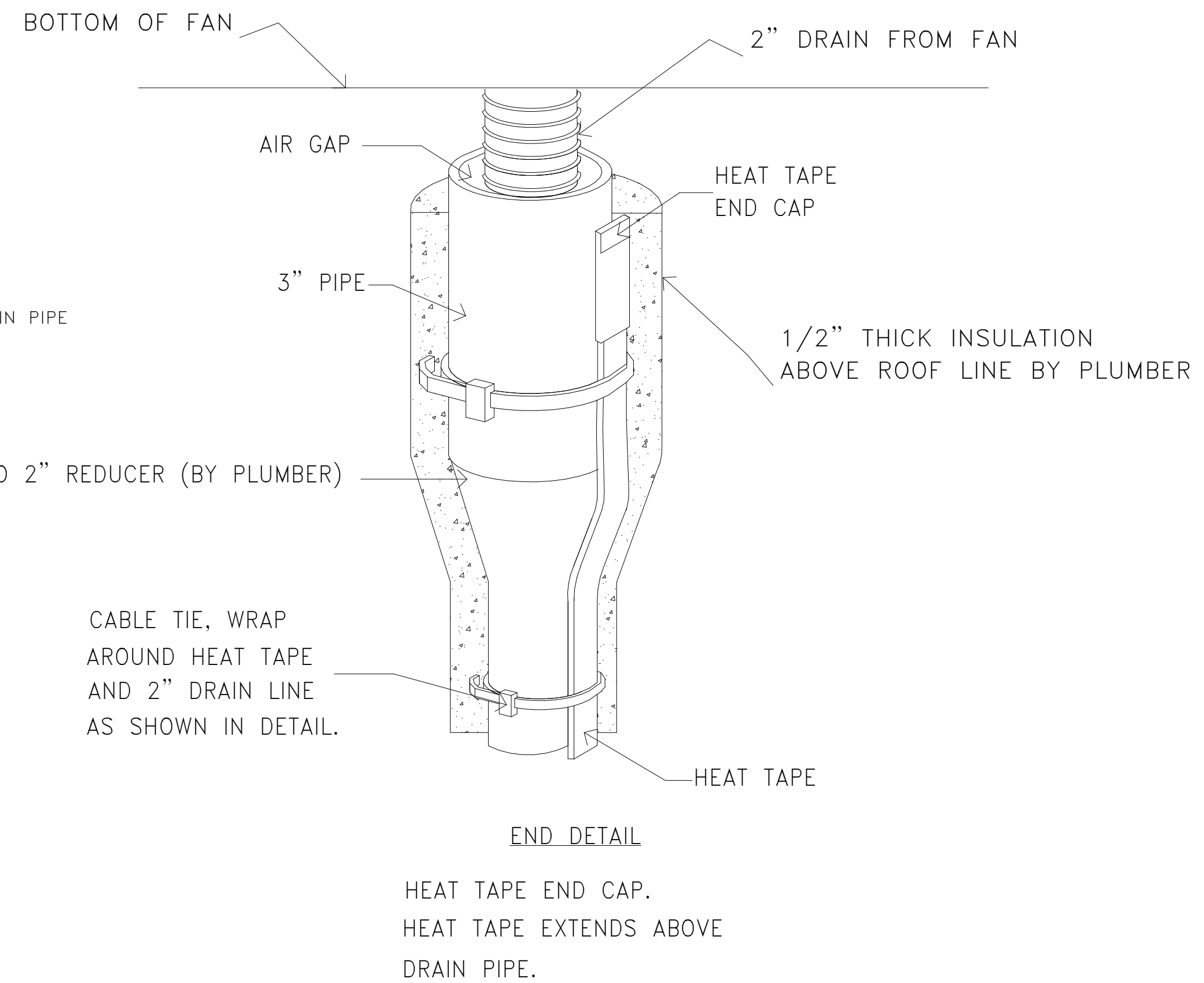
RA / PE SEAL:

M6.5
 1 OF 13 SHEETS

DRAIN LINE HEATER INSTALLATION DETAIL



	INSTALLATION PROCEDURE:	TRADE RESPONSIBLE
1.	THE HEAT TAPE ASSEMBLY IS SHIPPED LOOSE FROM THE EXHAUST FAN.	CAS
2.	THE GENERAL CONTRACTOR IS TO PROVIDE HOLE IN ROOF AND SEAL THE HOLE (SEE DIAGRAM).	GENERAL CONTRACTOR
3.	INSTALL THE COPPER GREASE LINE DRAIN PIPE, SUPPLIED BY THE PLUMBER.	PLUMBER / ELECTRICIAN
4.	REMOVE (AND SAVE) THE END CAP AND GROUND FAULT PLUG. (GIVE PARTS TO ELECTRICIAN)	PLUMBER
5.	ROUTE THE HEAT TAPE ON THE OUTSIDE OF THE COPPER TUBE.	PLUMBER
6.	SECURE HEAT TAPE AND END CAP TO DRAIN USING CABLE TIE AS SHOWN IN END DETAIL.	PLUMBER
7.	INSULATE COPPER DRAIN LINE ABOVE THE ROOF LINE.	PLUMBER
8.	THE ELECTRICIAN IS TO SUPPLY GROUND FAULT PROTECTION OUTLET LOCATED NEAR GREASE COLLECTION BOX (15 AMP, 120 VOLT CIRCUIT) THE POWER SOURCE SHOULD BE A SEPERATE CIRCUIT. THE HEAT TAPE IS TO BE PROTECTED BY G.F.C.I. CIRCUIT BREAKER. THE HEAT TAPE STAYS ON ALL THE TIME, AND IS NOT CONTROLLED BY THE FAN ON-OFF SWITCH.	ELECTRICIAN
9.	PLUMBER TO MOUNT GREASE COLLECTION BOX ON THE WALL IN PREP AREA. GREASE COLLECTION BOX PROVIDED BY CAS.	PLUMBER
10.	ELECTRICIAN TO MAKE FINAL CONNECTION BETWEEN GROUND FAULT PLUG AND HEAT TAPE. GROUND FAULT PLUG PROVIDED BY CAS.	ELECTRICIAN
11.	ELECTRICIAN TO MAKE FINAL CONNECTION BETWEEN END CAP AND HEAT TAPE (ON ROOF). END CAP PROVIDED BY CAS.	ELECTRICIAN



IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE IF THE GREASE DRAIN SYSTEM IS ACCEPTABLE TO LOCAL CODE AUTHORITIES

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Five Guys
 Fayetteville, AR

FIVE GUYS®

BURGERS and FRIES
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 LORTON, VA 22079

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REV.	DATE	DESCRIPTION
-	28 Nov. 2023	Final Review, G.C. Bld, Building Dept. Review/ Permit Filing

PROJECT: FIVE GUYS BURGERS & FRIES
 STORE No.
 BUILDING No. 2
 1229 - 1241 MARTIN LUTHER KING BLVD.
 FAYETTEVILLE, ARKANSAS 70721

DRAWING TITLE: KITCHEN HOOD DRAWINGS

DATE: 11/28/2023 3:28:27 PM
 PROJECT No.: 2304201
 DRAWN BY: JHH
 CHECKED BY: PJW

RA / PE SEAL:

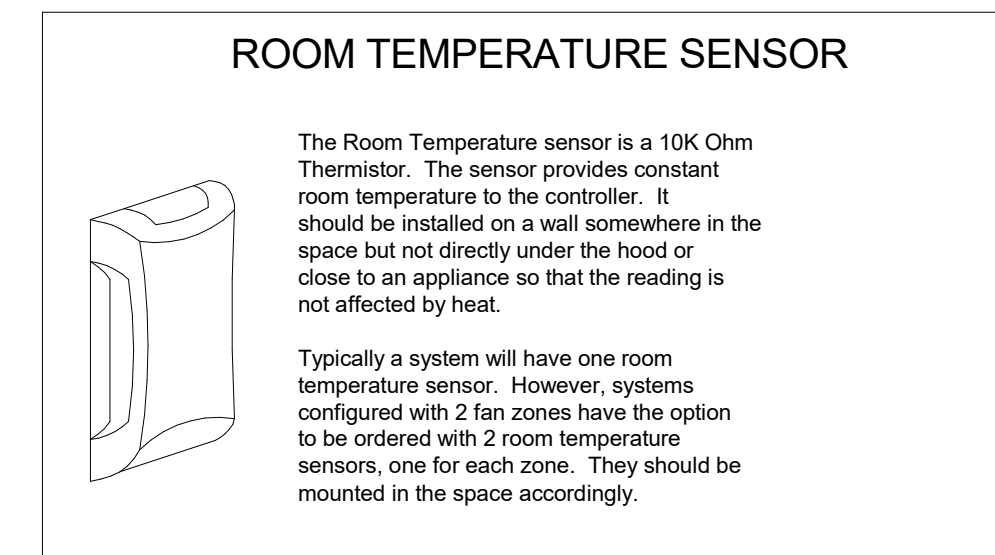
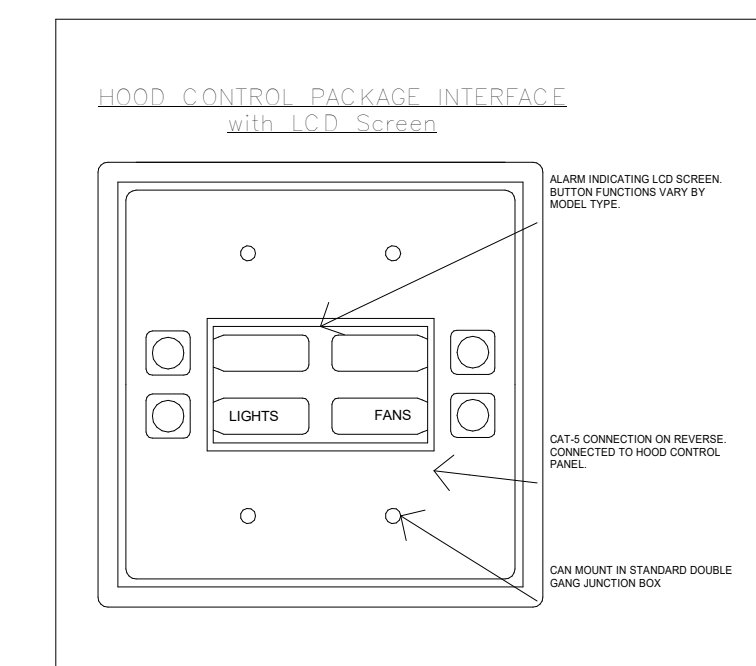
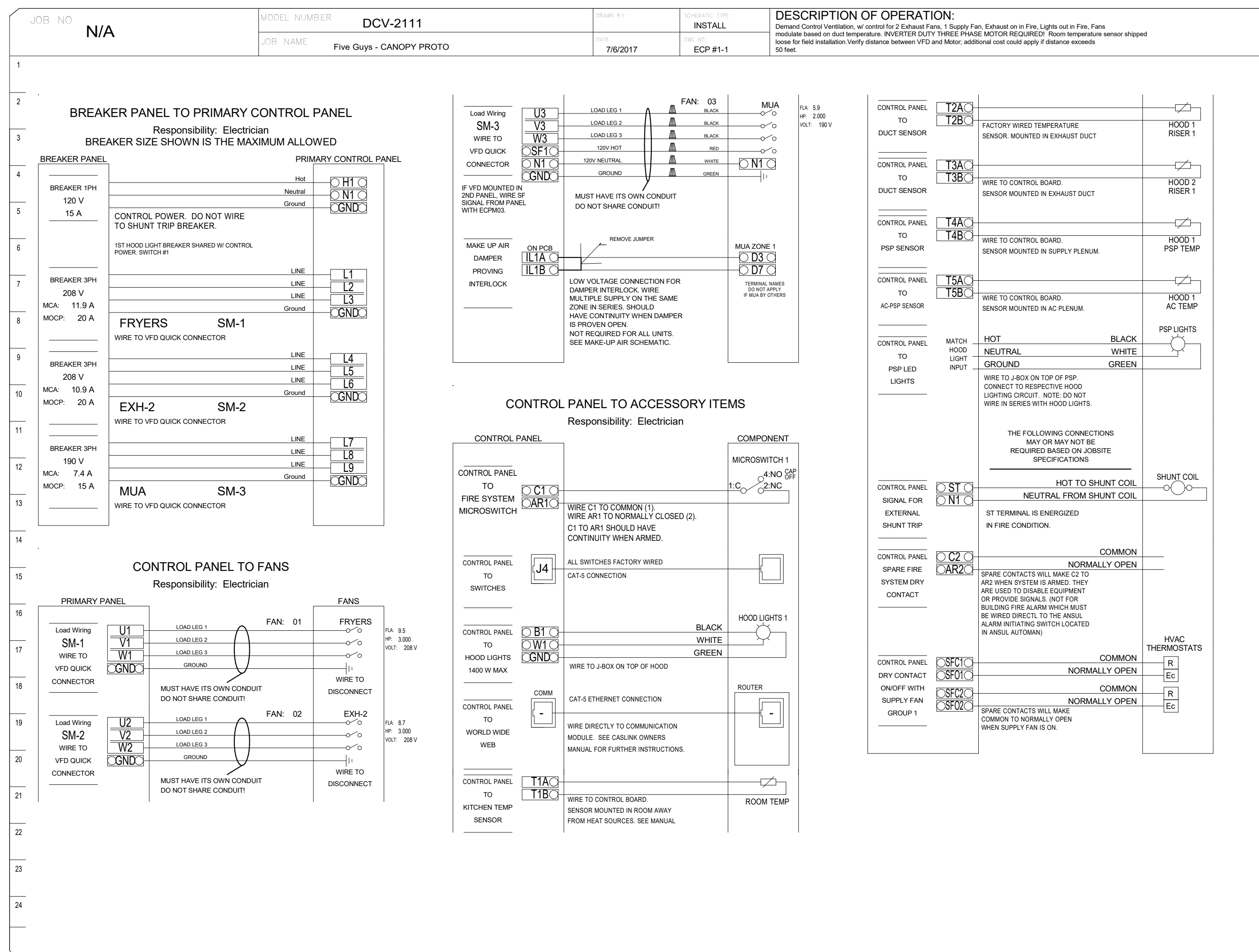


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12 OF 13 SHEETS

ELECTRICAL PACKAGES

NO.	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	#	H.P.	VOLT.	FLA.
1		DCV-2111	Utility Cabinet Right	03 - Utility Cabinet Right	1 Light	Smart Controls DCV	FRYERS	Exhaust	3	3.000	208	9.5
				Hood # 2	1 Fan		GRILL	Exhaust	3	3.000	208	8.7
							MUA	Supply	3	2.000	190	5.9

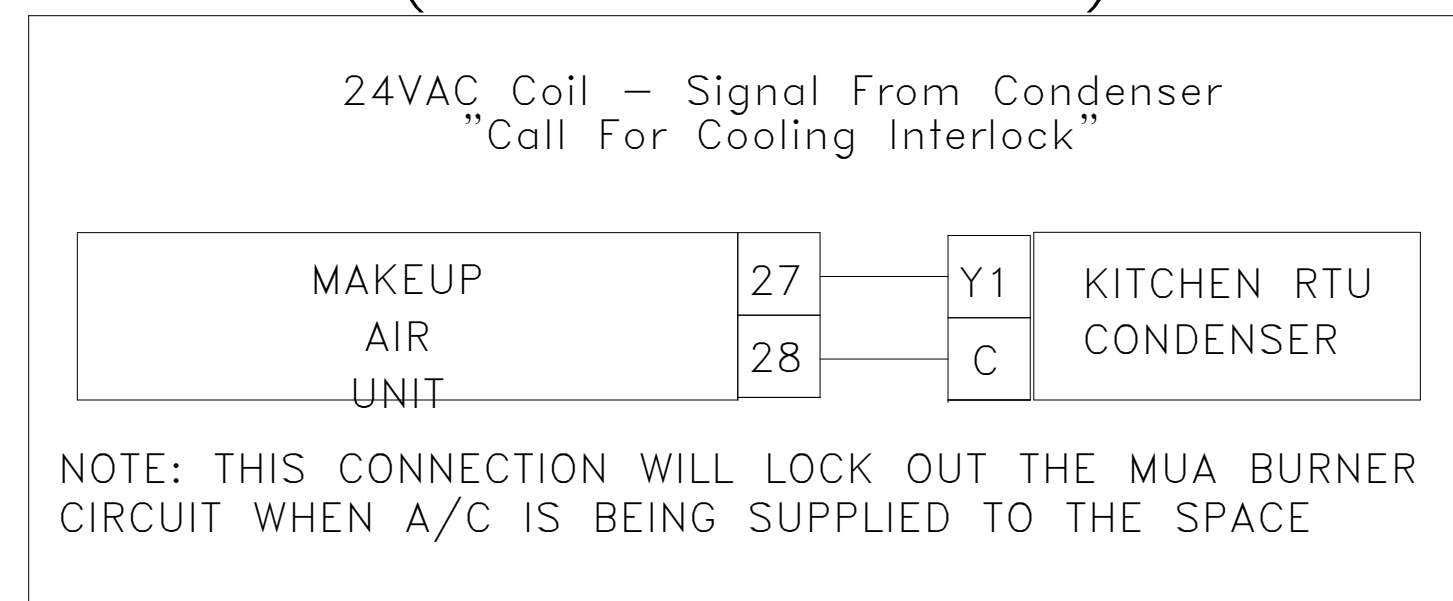


SCOPE OF WORK

HOOD(S): PROVIDED BY OWNER. INSTALLED BY GC.
 FIRE SYSTEM(S): PROVIDED & INSTALLED BY OWNER.
 EXHAUST FAN(S): PROVIDED BY OWNER. INSTALLED BY GC.
 MAKEUP AIR UNIT(S): PROVIDED BY OWNER. INSTALLED BY GC.
 ELECTRICAL CONTROL(S): PROVIDED BY OWNER. INSTALLED BY GC.

GC IS RESPONSIBLE FOR COMPLETE START-UP OF EXHAUST FANS AND MAKEUP AIR UNIT PER CAPTIVEAIRE OPERATION & INSTALLATION MANUAL

MUA/ RTU INTERLOCK DETAIL
(BY ELECTRICIAN)

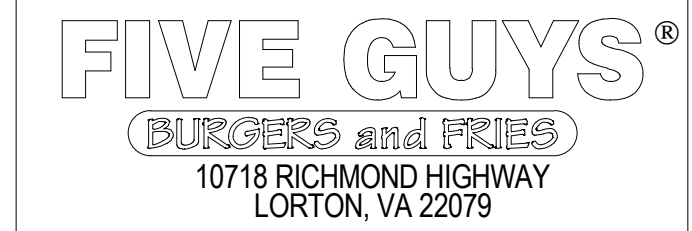


SEQUENCE OF OPERATION - APPLIANCE INTERLOCK

- IN AUTO POSITION, FANS WILL TURN ON WHEN TEMPERATURE IS ABOVE 85 DEGREES AND WILL SHUT DOWN WHEN TEMPERATURE COOLS BELOW 85 DEGREES.
- IN ON POSITION, FANS WILL REMAIN ON CONSTANTLY
- IN FIRE CONDITION, EXHAUST WILL TURN ON OR REMAIN ON. MAKEUP AIR WILL SHUT DOWN AUTOMATICALLY.

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