

**DIVISION 15 SPECIFICATIONS**

**PART I - GENERAL**

**1.01 SCOPE**

- A. IT IS THE RESPONSIBILITY OF CONTRACTOR TO READ ALL SPECIFICATIONS AND CONSULT ALL DRAWINGS WHICH MAY AFFECT THE INSTALLATION AND COORDINATION OF WORK WITH OTHER TRADES. CONTRACTOR SHALL COORDINATE AND MAKE MINOR ADJUSTMENTS IN LOCATION OF EQUIPMENT AND MATERIALS AS NECESSARY FOR COORDINATION.
- B. COMPLETED INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
- C. SYSTEM LAYOUT IS SCHEMATIC AND EXACT LOCATIONS SHALL BE DETERMINED BY STRUCTURAL CONDITIONS, COORDINATION WITH OTHER TRADES, COORDINATION WITH FINISHES AND OTHER CONDITIONS. STRUCTURAL SUPPORTS SHALL NOT BE CUT OR ALTERED TO ASSURE FIT OF HVAC SYSTEM. TEN FOOT CLEARANCE SHALL BE MAINTAINED BETWEEN OUTSIDE AIR INTAKES AND EXHAUST FANS AND PLUMBING VENT TERMINALS.
- D. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEFECTS, REPAIRS AND REPLACEMENTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER FINAL PAYMENT IS APPROVED. CONTRACTOR SHALL HONOR FACTORY WARRANTIES ON ALL EQUIPMENT PROVIDED AS PART OF THIS SYSTEM.
- E. UPON COMPLETION OF PROJECT, ALL SYSTEM EQUIPMENT AND MATERIALS SHALL BE IN NEW, CLEAN CONDITION WITH ALL DAMAGE RESTORED TO CONDITION ACCEPTABLE TO THE OWNERS REPRESENTATIVE. ALL EQUIPMENT, COMPONENTS, DUCTWORK AND AIR DEVICES SHALL BE INSPECTED AND THOROUGHLY CLEANED, CLEARED OF DEBRIS, AND READY FOR USE. AT COMPLETION OF JOB, ALL MISCELLANEOUS TOOLS, SCAFFOLDING, SURPLUS MATERIALS, RUBBISH AND DEBRIS SHALL BE REMOVED BY CONTRACTOR.
- F. CONTRACTOR SHALL PROVIDE TWO SETS OF 2" MERV 8 OR HIGHER THROW AWAY TYPE FILTERS. A CLEAN SET SHALL BE PROVIDED PRIOR TO TEST AND BALANCE AND AGAIN PRIOR TO OPENING.

**PART II - PRODUCTS**

**2.01 HEATING AND COOLING EQUIPMENT**

- A. FURNISH AND INSTALL R-410A ROOFTOP SINGLE PACKAGE COMBINATION ELECTRIC COOLING AND NATURAL GAS FIRED HEATING UNITS AS SHOWN ON DRAWINGS. EQUIPMENT SHALL BE ARI CERTIFIED AND A.G.A. AND U.L. LISTED.
- B. ACCESSORIES SHALL INCLUDE LOW AND HIGH PRESSURE SAFETIES, CRANK CASE HEATER, OVERCURRENT AND OVERTEMPERATURE SAFETY COMPRESSOR VIBRATION ISOLATORS, FILTER DRIERS, REFRIGERANT SERVICE VALVES, COIL HAIL GUARDS WHERE SCHEDULED, CONVENIENCE OUTLETS FACTORY INSTALLED ON SCHEDULED UNITS, UNIT MOUNTED NON-FUSED DISCONNECTS, LOW AMBIENT OPERATION DOWN TO 30 DEGREES F AND EVAPORATOR FREEZE STAT.
- C. COMPRESSORS SHALL BE HERMETIC SCROLL TYPE WITH INTERNAL VIBRATION ISOLATORS. COMPRESSORS SHALL BE PROVIDED WITH A MINIMUM FIVE (5) YEAR FULL WARRANTY.
- D. THE UNIT HEAT EXCHANGERS SHALL BE ALUMINIZED STEEL COATING. HEATING CONTROLS SHALL CONSIST OF REDUNDANT GAS VALVES, INTERMITTENT PILOT WITH ELECTRONIC SPARK OR HOT PLATE IGNITION SYSTEM, COMBUSTION/EXHAUST FAN PROTECTED BY CENTRIFUGAL SWITCHES, HEAT LIMIT SWITCHES, TIME-DELAY RELAY, FLAME, AND PILOT SENSORS. HEAT EXCHANGERS SHALL HAVE A TEN (10) YEAR WARRANTY. BURNERS SHALL BE IN-SHOT TYPE. THE DRAFT MOTOR SHALL BE MONITORED BY THE CONTROL SYSTEM.

**2.02 DUCTWORK (C15735)**

- A. ACCEPTABLE MANUFACTURERS OF INSULATION SHALL BE: JOHNS MANVILLE, OWENS CORNING OR KNAUF.
- B. ALL DUCTWORK SHALL BE SHEET METAL, UNLESS NOTED OTHERWISE (U.N.O.).
- C. DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS, U.N.O.
- D. CONSTRUCTION OF DUCTWORK SHALL MEET SMACNA 1" W.C. PRESSURE CLASS STANDARD AND RECOMMENDATIONS. SMACNA SHALL BE FOLLOWED WITH RESPECT TO GAGE THICKNESS, JOINTS, REINFORCING, CONSTRUCTION, INSTALLATION AND SUPPORT FOR PRESSURE CLASS STATED. ALL TRANSVERSE JOINTS IN RECTANGULAR AND ROUND DUCT INCLUDING DUCT CONNECTION TO AIR DEVICE COLLAR SHALL BE SEALED PER SMACNA SEAL CLASS A WITH U.L. DUCT MASTIC SEALANT APPROVED FOR INTENDED USE. DUCT TAPE IS NOT AN ACCEPTABLE SUBSTITUTE FOR MASTIC UNLESS EQUAL TO HARDCAST FOIL-GRIP 1402 BUTYL RUBBER ADHESIVE TAPE.
- E. DUCT SHALL BE SUPPORTED AT BASE OF DUCT DROPS. CURB DUCT RAILS ARE NOT INTENDED TO AND SHALL NOT SUPPORT THE WEIGHT OF THE DUCT.
- F. ALL DUCT WRAP SHALL BE MINIMUM 2" THICK, 3/4 PCF AND 6 R-VALUE INSTALLED WITH EITHER A VAPOR BARRIER WITH MAXIMUM PERMEANCE 0.05 OR A MINIMUM 2 MIL ALUMINUM REINFORCED FOIL/KRAFT FACING.
- G. ALL DUCT DROPS FROM THE ROOFTOP UNITS SHALL BE EXTERNALLY INSULATED.
- H. SUPPLY AND RETURN AIR DUCTWORK SERVING ALL AREAS SHALL BE EXTERNALLY INSULATED.
- I. ALL AIR CONVEYANCE COMPONENTS SUCH AS, BUT NOT LIMITED TO DUCT, DUCT PLENUMS, GRILLES/DIFFUSERS, BACK PANS, AND BOOTS SHALL BE INSULATED. INSULATION TYPE IS COVERED ELSEWHERE IN THIS SPECIFICATION.
- J. RESTROOM RECTANGULAR EXHAUST AIR DUCTWORK SHALL BE LINED WITH 1" THICK, 1-1/2 PCF INSULATION. RESTROOM ROUND EXHAUST DUCT SHALL BE EXTERNALLY INSULATED PER SECTION 2.02F.
- K. DUCT DROPS SHALL BE ISOLATED FROM UNIT VIBRATION WITH THE USE OF NFPA AND U.L. APPROVED FLEXIBLE CONNECTORS INSTALLED AT THE TOP OF BOTH SUPPLY AND RETURN DROPS.
- L. INSULATED FLEXIBLE DUCT MAY BE UTILIZED FOR RUNOUTS TO GRILLES AND DIFFUSERS ONLY IN THE HORIZONTAL POSITION AND IN MAXIMUM LENGTHS OF 4'-0", NO EXCEPTONS.
- M. CONSTRUCTION OF FLEXIBLE DUCTWORK SHALL INCLUDE SPIRAL METAL HELIX BONDED TO A POLYESTER CORE, FIBERGLASS INSULATION WITH POLYETHYLENE OR MYLAR VAPOR BARRIER. ALL COMPONENTS SHALL HAVE APPROPRIATE U.L. APPROVAL AND SHALL BE EQUIVALENT TO THERMAFLEX MKE. FLEX DUCT SHALL HAVE A MINIMUM R-VALUE OF 6.
- N. FLEXIBLE DUCT SHALL BE INSTALLED PER THE "ADC FLEXIBLE DUCT PERFORMANCE AND INSTALLATION STANDARDS, 4TH ED" USING FOIL TAPE AND DRAWBAND ON THE INNER CORE AND TAPE OR DRAWBAND ON THE OUTER JACKET.
- O. DUCT TAPE SHALL BE EQUAL TO FASSON 181-B FX, 2-1/2" WIDE.
- P. SINGLE THICKNESS TURNING VANES SHALL BE INSTALLED AT ALL 90 DEGREE ELBOWS WHERE THE CENTERLINE RADIUS (R) IS LESS THAN THE WIDTH OF THE DUCT AND ANY ONE DIMENSION IS GREATER THAN 12".
- Q. EXTERNAL INSULATION ON BOTTOM OF DUCTS 24" OR WIDER SHALL BE SUPPORTED WITH STICK PINS ON 18" CENTERS. STICK PIN WASHERS SHALL BE COVERED WITH DUCT TAPE OR MASTIC.

**2.03 CONTROLS**

- A. SYSTEMS SHALL BE COMPLETE WITH CONNECTIONS TO CFA-500 TEMPERATURE CONTROL PANEL AS MANUFACTURED BY SUNCOAST ENVIRONMENTAL CONTROLS (S.E.C.) (PH: 877-544-6679). THE PANEL IS PROVIDED AND MOUNTED BY THE ELECTRICAL CONTRACTOR. CONTROL WIRING TERMINATIONS ARE BY THE MECHANICAL CONTRACTOR WHERE PERMITTED BY AHJ.
- B. THE SMOKE DETECTORS SHALL BE FACTORY INSTALLED AND WIRED BY THE ROOFTOP UNIT MANUFACTURER.
- C. A FACTORY INSTALLED SMOKE DETECTOR IN THE RETURN AIR SECTION OF EACH AIR CONDITIONING UNIT SHALL STOP THE INDOOR FAN AND CLOSE THE OUTSIDE AIR DAMPER IN THE EVENT OF EXCESSIVE TEMPERATURE OR SMOKE. SMOKE DETECTOR SHALL BE LOCATED PRIOR TO ANY EXHAUST FROM THE BUILDING OR MIXING WITH FRESH AIR MAKE-UP. UPON DETECTION, THE SYSTEM SHALL NOT RESTART UNTIL THE DEVICE IS MANUALLY RESET. DEVICES SHALL BE LOCATED WHERE THEY CAN BE EASILY ACCESSED AND WHERE CLEAR OF FILTERS.
- D. CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH SUNCOAST ENVIRONMENTAL CONTROLS FOR THE SMOKE DETECTOR TEST/RESET ANNUNCIATOR STATIONS. THE TEST/RESET STATIONS WILL BE PURCHASED BY THE ELECTRICAL CONTRACTOR AS A PART OF A NATIONAL ACCOUNT PACKAGE AND TURNED OVER TO THE MECHANICAL CONTRACTOR FOR INSTALLATION.
- E. THE REMOTE TEST/RESET ANNUNCIATORS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. INSTALLATION BY MECHANICAL SHALL INCLUDE MOUNTING OF THE ANNUNCIATORS AND ALL WIRING FROM EACH DEVICE TO THE RTU. ELECTRICAL WILL PROVIDE A JUNCTION BOX IN THE WALL WITH 1/2" CONDUIT STUBBED UP ABOVE THE CEILING FOR EACH REMOTE TEST STATION AS SHOWN ON THE ELECTRICAL PLANS. ANNUNCIATOR SHALL BE SUNCOAST CONTROLS REMOTE TEST/RESET STATION WITH POWER LED, TROUBLE LED, ALARM LED, 90DB HORN AND TEST/RESET BUTTON.
- F. THE RESTROOM FAN SHALL BE INTERLOCKED TO THE LIGHTS SERVING THE MEN AND WOMEN'S RESTROOMS. THE HOOD FANS SHALL BE CONTROLLED VIA THE SUNCOAST CFA-500 CONTROL PANEL, WIRING, RELAYS AND SWITCHES FOR CONTROL OF ALL FANS ARE BY ELECTRICAL CONTRACTOR.
- G. THERMOSTATS ARE PROVIDED AND INTEGRATED INTO THE TEMPERATURE CONTROL PANEL BY SUNCOAST ENVIRONMENT CONTROLS. SUNCOAST WILL PROVIDE A NETWORK THERMOSTAT US32-CFA THERMOSTAT PRE-WIRED IN THE TEMPERATURE CONTROL PANEL. REMOTE TEMPERATURE SENSOR(S) FOR EACH THERMOSTAT IS ALSO PROVIDED. MECHANICAL CONTRACTOR SHALL INSTALL ALL WIRING BETWEEN THE THERMOSTAT, THE REMOTE SENSOR(S) AND THE ROOFTOP UNIT.
- H. MECHANICAL CONTRACTOR SHALL INSTALL CONTROL WIRING IN 1/2" CONDUIT WHERE REQUIRED BY CODE. WHERE NOT REQUIRED TO BE IN CONDUIT, ALL WIRING SHALL BE RUN PARALLEL TO STRUCTURAL MEMBERS OR PERPENDICULAR WITH NO DIAGONAL ROUTING. ALL WIRING SHALL BE SECURED TO THE FRAMING TO PREVENT SAGGING IN RUNS. WIRING TO ROOFTOP UNITS SHALL BE ROUTED THROUGH THE FACTORY THRU-BASE FITTING IN THE UNIT BASE. NO SPLICING OF WIRING WILL BE ACCEPTED. ALL WIRING ABOVE THE ROOF SHALL BE INSTALLED IN EXTERIOR GRADE FLEXIBLE CONDUIT. ALL CONTROL WIRING AND CONTROL WIRING CONDUIT SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. WIRING SHALL BE INSTALLED IN ACCORDANCE WITH LATEST EDITION OF NEC. ALL LOW VOLTAGE CONTROL WIRING SHALL BE NO LESS THAN 18 AWG MIN. CONTROL WIRING CONDUCTORS SHALL BE SIZED TO ACCOUNT FOR LOAD AND LENGTH OF RUN TO ALLOW SUFFICIENT VOLTAGE AVAILABLE AT CONTROLLED DEVICE TO OPERATE THE SYSTEM RELIABLY.

**2.04 PIPING**

- A. ALL ABOVE GRADE NATURAL GAS PIPING SHALL BE SCHEDULE 40 STEEL MEETING ASTM A53 WITH SCREWED OR WELDED FITTINGS AND GASKET TYPE UNIONS AND FLANGES. FOR SCREWED PIPING, PIPING SHALL BE JOINED WITH BLACK 150 POUND MALLEABLE IRON SCREWED FITTINGS AS ALLOWED BY LOCAL AUTHORITY. CONTRACTOR SHALL VERIFY THE NEED FOR WELDED PIPING AS REQUIRED BY THE LOCAL GAS CODE AND/OR APPLICABLE LOCAL ORDINANCES AND AMENDMENTS.
- B. ALL BELOW GRADE NATURAL GAS PIPING SHALL BE MEDIUM DENSITY POLYETHYLENE (PE) MEETING ASTM D2513 AS MANUFACTURED BY GASTITE WITH JOINING SYSTEM AS MANUFACTURED BY CON-STAB. TRANSITIONS FROM ABOVE GRADE RIGID PIPING TO PE BELOW GRADE PIPING SHALL BE MADE WITH ANODE-LESS RISER ASSEMBLY AS MANUFACTURED BY CON-STAB.

- C. PROVIDE AND INSTALL A CUT-OFF VALVE, UNION AND FULL SIZE DIRT LEG AT CONNECTION TO EACH GAS-FIRED PIECE OF EQUIPMENT. INSTALL PIPING AT AND AROUND EQUIPMENT SO AS TO NO WAY OBSTRUCT EQUIPMENT ACCESS PANELS AND/OR ACCESS DOORS.
- D. ALL GAS PIPING ABOVE ROOF SHALL BE CLEANED FREE OF RUST AND PAINTED WITH COAT OF ZINC RUST PRIMER AND ONE COAT OF ALUMINUM BASE PAINT. METER AND GAS RISER SHALL BE PRIMED AND PAINTED TO MATCH BUILDING.

- E. NATURAL GAS PIPING SHALL BE LEAK TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.

**PART III - EXECUTION**

**3.01 SCOPE**

- A. FURNISH AND INSTALL SYSTEM IN ACCORDANCE WITH REFERENCED STANDARDS, APPLICABLE CODES, MANUFACTURER'S RECOMMENDATIONS AND AS INDICATED ON DRAWINGS.
- B. CONTRACTOR SHALL INSTRUCT THE OWNER'S REPRESENTATIVE IN ALL MATTERS PERTAINING TO THE PROPER MAINTENANCE OF EQUIPMENT FURNISHED UNDER THIS CONTRACT THROUGH DEMONSTRATION AND EXPLANATION OF OPERATING & MAINTENANCE MANUALS.
- C. CONTRACTOR SHALL PROVIDE A "SAMPLE MAINTENANCE PROPOSAL" TO THE OWNER'S REPRESENTATIVE IN ALL MATTERS PERTAINING TO THE PROPER MAINTENANCE OF EQUIPMENT FURNISHED UNDER THIS CONTRACT.
- D. CONTRACTOR SHALL COMPLETE A/C EQUIPMENT STARTUP DOCUMENTATION PROVIDED BY OWNER AND/OR MANUFACTURER. THIS SHALL INCLUDE RE-TORQUE OF ALL FIELD AND FACTORY HIGH VOLTAGE CONNECTIONS.

**3.02 LEED PROJECTS**

- A. CONTRACTOR SHALL COMPLETE RECEIPT INSPECTION CHECKLISTS PROVIDED IN THE COMMISSIONING PLAN WITHIN 5 DAYS OF RECEIVING EQUIPMENT ON SITE.
- B. CONTRACTOR SHALL COMPLETE PRE-FUNCTIONAL CHECKLISTS PROVIDED IN THE COMMISSIONING PLAN. CHECKLISTS SHALL BE RETURNED AT LEAST 5 DAYS PRIOR TO SCHEDULING FUNCTIONAL PERFORMANCE TESTING.
- C. CONTRACTOR SHALL PROVIDE A TECHNICIAN TO ASSIST THE THIRD PARTY COMMISSIONING AUTHORITY WITH FUNCTIONAL TESTING. FUNCTIONAL TESTING SHALL OCCUR AFTER ALL CONTROLS HAVE BEEN INSTALLED AND VERIFIED AND AFTER TEST AND BALANCE IS COMPLETE. THE FUNCTIONAL PERFORMANCE TEST PROCEDURES CAN BE FOUND IN THE COMMISSIONING PLAN.

- D. IF THE TOTAL TIME REQUIRED TO CORRECT PROBLEMS DURING TESTING IS GREATER THAN FORTY-FIVE (45) MINUTES (UNLESS EXTENUATING CIRCUMSTANCES EXIST), THE TEST SHALL BE CONSIDERED FAILED AND MUST BE REPEATED IN ITS ENTIRETY.

- E. RE-TESTING: DURING THE COURSE OF THE RETEST, IF AT ANY POINT A MAJOR DEFICIENCY IS DISCOVERED, THE TEST WILL BE STOPPED. REPEAT TESTS UNTIL ACCEPTABLE RESULTS ARE ACHIEVED. IF MORE THAN TWO FUNCTIONAL PERFORMANCE TESTS (ONE INITIAL TEST AND ONE RETEST) FOR ANY TYPE OF EQUIPMENT DUE TO ISSUES THAT THE CONTRACTOR HAD DIRECT OR INDIRECT CONTROL OVER ARE REQUIRED, THE COSTS FOR THE CXA TO WITNESS RETESTING OF SIMILAR TYPES OF EQUIPMENT UNTIL SATISFACTORY RESULTS ARE OBTAINED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

**3.03 TEST & BALANCE**

- A. OWNER SHALL TEST AND BALANCE MECHANICAL SYSTEM IN ACCORDANCE WITH NEBB, NBC OR AAC STANDARDS TO ASSURE CONFORMANCE WITH DESIGN. G.C. WILL MAKE MECHANICAL CONTRACTOR AVAILABLE DURING TEST AND BALANCE TO ASSIST TESTING AGENCY AND TO MAKE CORRECTIONS IMMEDIATELY NECESSARY. CONTRACTOR SHALL CORRECT ITEMS ON WRITTEN TEST AND BALANCE REPORT.
- B. ALL EQUIPMENT TO BE BALANCED MUST HAVE GONE THRU SUCCESSFUL START-UP PROCEDURE BY THE MECHANICAL CONTRACTOR (MC) PRIOR TO TAB VISIT.
- C. THE FLOOR OF THE RESTAURANT SHALL BE CLEARED OF DEBRIS, STAGED CONSTRUCTION MATERIALS, EQUIPMENT, ETC. WHICH MAY, IN THE OPINION OF THE TAB TECHNICIAN, OBSTRUCT ACCESS TO AIR DISTRIBUTION COMPONENTS IN AND ABOVE THE CEILING.
- D. EQUIPMENT ACCESS PANELS, DUCT AIR DEVICES SUCH AS BALANCING DAMPERS AND ACTUATORS SHALL BE ACCESSIBLE AND CLEAR OF PIPING, CONDUIT, FRAMING, SUPPORTS ETC..
- E. PROVIDE AN 8 FT PORTABLE A-FRAME STYLE LADDER DEDICATED FOR THE TAB TECHNICIAN'S USE DURING THE ENTIRE TAB EFFORT DURATION.

**GENERAL NOTES**

- 1. DUCT SIZES SERVING DIFFUSERS AND GRILLES ARE SAME SIZE AS DIFFUSER OR GRILLE NECK UNLESS NOTED OTHERWISE.
- 2. FLEXIBLE DUCT AND INSULATION NOT SHOWN FOR CLARITY.
- 3. FOR ALL ROOF EQUIPMENT, PROVIDE A PLASTIC ENGRAVED LABEL WITH 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. WITH A SELF ADHESIVE BACKING.
- 4. UNLESS NOTED OTHERWISE, MC TO ADJUST ALL DIFFUSER AIR PATTERN DEFLECTORS TO THROW HORIZONTALLY ALONG THE CEILING.
- 5. ALL EXHAUST DUCTWORK AND UNFINISHED METAL ON ROOF EXCEPT STAINLESS SHALL BE PREPARED WITH TWO COATS OF SHERWIN WILLIAMS PRO INDUSTRIAL DTM ACRYLIC COATING, SEMI-GLOSS, WHITE, DEGREASE AND PRIME BARE METAL SURFACE WITH ONE COAT OF SHERWIN WILLIAMS PRO INDUSTRIAL PRO-CRYLACRYLIC UNIVERSAL PRIMER, WHITE, PRIOR TO PAINTING.
- 6. MAINTAIN 18" CLEARANCE FROM GREASE EXHAUST DUCTWORK ABOVE ROOF TO ANY COMBUSTIBLE CONSTRUCTION INCLUDING PARAPET WALLS.

**KITCHEN HOOD SYSTEMS NOTES**

- 1. CHICK-FIL-A MAINTAINS A NATIONAL ACCOUNT WITH HALTON CO. FOR THE HOODS. CHICK-FIL-A WILL PURCHASE AND PROVIDE THE HOODS FOR INSTALLATION BY THE MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING THE HOODS. CONTACT HALTON CO. AT 270-237-5600 FOR MORE INFO.
- 2. THE FIRE SUPPRESSION SYSTEM SHALL CONSIST OF A COMPLETE WET CHEMICAL SYSTEM FURNISHED BY HALTON. THE HOOD SHALL BE FURNISHED PRE-PIPED BY HALTON.
- 3. THE FIRE SUPPRESSION SYSTEM EXTERNAL TO THE HOODS SHALL BE INSTALLED IN ACCORDANCE WITH HOOD MANUFACTURER'S SHOP DRAWINGS BY AN AUTHORIZED INSTALLER SELECTED AND HIRED BY HALTON. COST FOR INSTALLATION INCLUDED IN PRICE OF HOODS TO CFA.
- 4. HOOD EXHAUST DUCTWORK SHALL BE 16 GA. BLACK STEEL WITH CONTINUOUS LIQUID TIGHT WELD OF JOINTS & SEAMS.
- 5. TURNS IN GREASE EXHAUST DUCTWORK SHALL BE LONG RADIUS TYPE, WITH A CENTERLINE RADIUS R=3W/2, UNLESS OTHERWISE NOTED. NO MITERED FITTINGS ALLOWED.
- 6. ALL STAINLESS STEEL CLOSURE PANELS SHALL BE SUPPLIED BY HOOD MANUFACTURER AND INSTALLED BY THE MECHANICAL CONTRACTOR ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- 7. SLOPE ALL GREASE EXHAUST DUCT BACK TO HOOD AT 1/4" PER FOOT OF RUN.
- 8. WRAP NEW GREASE DUCT WITH UNIFRAX FYREWREAP. INSULATION ON ACCESS DOORS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTALLATION RECOMMENDATIONS. UNIFRAX FYREWREAP PRODUCT USED SHALL MEET LOCAL CODE REQUIREMENTS.
- 9. SUPPORT ALL HOODS WITH THREADED ROD AT EACH FACTORY SUPPORT POINT. EACH SUPPORT POINT MUST SUPPORT THE HOOD WEIGHT EQUALLY. ATTACH TO STRUCTURE AS DETAILED ON STRUCTURAL DRAWINGS. ATTACH HOOD TO WALL AT 16" INTERVALS ALONG FULL LENGTH OF HOOD ON TOP AND BOTTOM. ATTACHMENT TO WALL REQUIRES FIELD DRILLING OF SUPPORT ANGLE AT BACK OF HOODS. EACH WALL ATTACHMENT POINT MUST OCCUR AT A WALL STUD. ATTACHMENT HARDWARE TO BE #12-24 HEX HEAD SHEET METAL SCREW EQUAL TO TEXTRON SDS EDT265, LENGTH AS REQUIRED TO FULLY PENETRATE THE STUD.

**LEGEND**

A-12-400	TYPE - NECK SIZE - CFM	EF#1	EXHAUST FAN #1 (TYP.)
	SPIN-IN FITTING WITH MANUAL BALANCING DAMPER, WITHOUT SCOOP	AC#1	AIR CONDITIONING UNIT #1 (TYP.)
	SPIN-IN HARD FLEXIBLE DIFFUSER		RETURN/EXHAUST (TYP.)
	REMOTE TEMPERATURE SENSOR		SUPPLY DIFFUSER, SQ FACE (TYP.)
	HUMIDITY SENSOR		PLAN NOTE REFERENCE
	SMOKE DETECTOR		MANUAL VOLUME DAMPER
	DUCT SIZE (reverse for elevation views)		DIRECTION OF THROW ON DIFFUSER
	1ST NUMBER - HORIZONTAL DIMENSION		CLOSED AIR PATTERN DEFLECTOR
	2ND NUMBER - VERTICAL DIMENSION		GAS INFRARED HEATER (TYP.)
	AIR DOOR SWITCH		BELOW GRADE
	ELECTRIC INFRARED HEATER		THERMOSTAT
	PULL STATION		

**ABBREVIATIONS**

EC	ELECTRICAL CONTRACTOR
GC	GENERAL CONTRACTOR
MC	MECHANICAL CONTRACTOR
PC	PLUMBING CONTRACTOR
O.C.	ON CENTER
IRH	INFRARED HEATER
CF	CIRCULATING FAN
TF	TRANSFER FAN
EF	EXHAUST FAN

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NO.	DATE	DESCRIPTION

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DRAWN BY: BLM  
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GENERAL NOTES, LEGENDS, SYMBOLS, AND ABBREVIATIONS  
SHEET NUMBER

**M-001**

**IECC COMMISSIONING REQUIREMENTS FOR MECHANICAL**

**IECC COMMISSIONING REQUIREMENTS**

C408.1 - MECHANICAL SYSTEMS SHALL BE DOCUMENTED IN ACCORDANCE WITH THE FOLLOWING SECTIONS.

C408.1.1 - PROVIDE AN OPERATION AND MAINTENANCE MANUAL WHICH INCLUDES THE FOLLOWING:

1. PROVIDE HVAC EQUIPMENT SUBMITTAL DATA.
2. PROVIDE MANUFACTURER'S OPERATION AND MAINTENANCE MANUALS FOR HVAC EQUIPMENT. ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
3. PROVIDE THE NAME AND ADDRESS OF AT LEAST ONE HVAC SERVICE AGENCY.
4. PROVIDE HVAC CONTROL SYSTEM MAINTENANCE AND CALIBRATION INFORMATION INCLUDING WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCES, TENANT DESIRED OR FIELD-DETERMINED SETPOINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS AT CONTROL DEVICES OR IN SYSTEM PROGRAMMING INSTRUCTIONS.
5. PROVIDE A NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING RECOMMENDED SETPOINTS.

C408.2 - COMMISSIONING OF MECHANICAL SYSTEMS SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING SECTIONS.

C408.2.1 - A COMMISSIONING PLAN SHALL BE DEVELOPED IN ACCORDANCE WITH THIS SECTION AND SHALL INCLUDE THE FOLLOWING ITEMS.

1. A NARRATIVE DESCRIPTION OF THE ACTIVITIES TO BE PERFORMED.
2. A LIST OF THE SYSTEMS AND EQUIPMENT REQUIRED TO BE COMMISSIONED.
3. A LIST OF THE TEST FUNCTIONS TO BE PERFORMED ON THE CORRESPONDING EQUIPMENT.
4. CONDITIONS UNDER WHICH THE TEST WILL BE PERFORMED.
5. MEASURABLE CRITERIA FOR PERFORMANCE.

C408.2.2 - MECHANICAL SYSTEMS SHALL UNDERGO TEST AND BALANCE AND SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS AS WELL AS THE 2021 IECC. AIR AND WATER FLOW RATES SHALL BE MEASURED AND ADJUSTED TO DELIVER FINAL FLOW RATES WITHIN THE TOLERANCES PROVIDED IN THE CONSTRUCTION SPECIFICATIONS.

C408.2.2.1 - CONDUCT AIR SYSTEMS TEST AND BALANCE IN ACCORDANCE WITH THE REQUIREMENTS OF THIS SECTION AND THE CONSTRUCTION SPECIFICATIONS.

C408.2.2.2 - CONDUCT WATER SYSTEMS TEST AND BALANCE IN ACCORDANCE WITH THE REQUIREMENTS OF THIS SECTION AND THE CONSTRUCTION SPECIFICATIONS.

C408.2.3 - PERFORM FUNCTIONAL PERFORMANCE TESTING IN ACCORDANCE WITH THE FOLLOWING SECTIONS.

C408.2.3.1 - PERFORM FUNCTIONAL PERFORMANCE TESTING FOR HVAC EQUIPMENT IN ORDER TO DEMONSTRATE THE OPERATION OF COMPONENTS, SYSTEM AND SYSTEM-TO-SYSTEM INTERACTION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER REQUIREMENTS. TESTING SHALL INCLUDE FULL-LOAD, PART-LOAD, AND EMERGENCY OPERATING CONDITIONS AND SHALL COVER ALL OPERATING MODES LISTED IN THE SEQUENCE OF OPERATIONS AS DEFINED IN THE CONSTRUCTION DOCUMENTS.

C408.2.3.2 - HVAC SYSTEMS SHALL BE TESTED IN ORDER TO DOCUMENT THAT CONTROL DEVICES, COMPONENTS, EQUIPMENT AND SYSTEMS ARE CALIBRATED AND ADJUSTED TO OPERATE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS. HVAC CONTROL SYSTEMS SHALL BE TESTED FOR ALL OPERATING MODES LISTED IN THE SEQUENCE OF OPERATIONS AS DEFINED IN THE CONSTRUCTION DOCUMENTS.

C408.2.3.3 - AIRSIDE ECONOMIZERS SHALL UNDERGO FUNCTIONAL PERFORMANCE TESTING IN ORDER TO ENSURE OPERATIONAL MODES ARE FUNCTIONING IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.

C408.2.4 - COMPLETE A PRELIMINARY COMMISSIONING REPORT OUTLINING TEST PROCEDURES AND RESULTS IN ACCORDANCE WITH THIS SECTION. THE REPORT SHALL IDENTIFY:

1. ITEMIZATION OF DEFICIENCIES FOUND DURING TESTING REQUIRED BY THIS SECTION THAT HAVE NOT BEEN CORRECTED AT THE TIME OF REPORT PREPARATION.
2. DEFERRED TESTS THAT CANNOT BE PERFORMED AT THE TIME OF THE REPORT PREPARATION DUE TO CLIMATIC CONDITIONS.
3. CLIMATIC CONDITIONS REQUIRED FOR PERFORMANCE OF THE DEFERRED TESTS.
4. RESULTS OF FUNCTIONAL PERFORMANCE TESTS.
5. FUNCTIONAL PERFORMANCE TEST PROCEDURES USED DURING THE COMMISSIONING PROCESS, INCLUDING MEASURABLE CRITERIA FOR TEST ACCEPTANCE.

C408.2.4.1 - THE OWNER SHALL RECEIVE A COPY OF THE PRELIMINARY COMMISSIONING REPORT BEFORE FINAL INSPECTION BY THE CODE OFFICIAL OCCURS.

C408.2.4.2 - THE PRELIMINARY COMMISSIONING REPORT SHALL BE MADE AVAILABLE TO THE PROJECT CODE OFFICIAL UPON REQUEST.

C408.2.5 - COMMISSIONING DOCUMENTATION OUTLINED IN SECTION C408 SHALL BE PROVIDED TO THE OWNER WITHIN 90 DAYS OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.

C408.2.5.1 - PROVIDE AIR AND WATER SYSTEM TEST AND BALANCE REPORTS IN ACCORDANCE WITH SECTION C408.2.2.

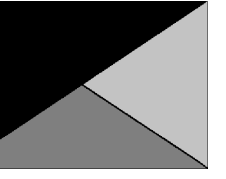
C408.2.5.2 - PROVIDE A FINAL COMMISSIONING REPORT TO THE OWNER INCLUDING THE FOLLOWING:

1. RESULTS OF THE FUNCTIONAL TESTS.
2. DISPOSITION OF DEFICIENCIES FOUND DURING TESTING, INCLUDING DETAILS OF CORRECTIVE MEASURES USED OR PROPOSED.
3. FUNCTIONAL PERFORMANCE TESTING PROCEDURES USED DURING THE COMMISSIONING PROCESS, INCLUDING MEASURABLE CRITERIA FOR TEST ACCEPTANCE, PROVIDED FOR REPEATABILITY.
4. LIST OUT ANY DEFERRED TESTS STILL OUTSTANDING DUE TO CLIMATIC CONDITIONS.

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30-SE-05796-M-002-COMMISSIONING REQUIREMENTS - MECHANICAL



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07/11/25

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Ocean Springs FSU

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Ocean Springs, MS 39564

**FSR#05796**

BUILDING TYPE / SIZE: P14 SE BASE

RELEASE: 25.02

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**REVISION SCHEDULE**

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT #	25036.CC.S
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**SHEET**  
COMMISSIONING  
REQUIREMENTS -  
MECHANICAL  
SHEET NUMBER

**M-002**

**KEY NOTES**

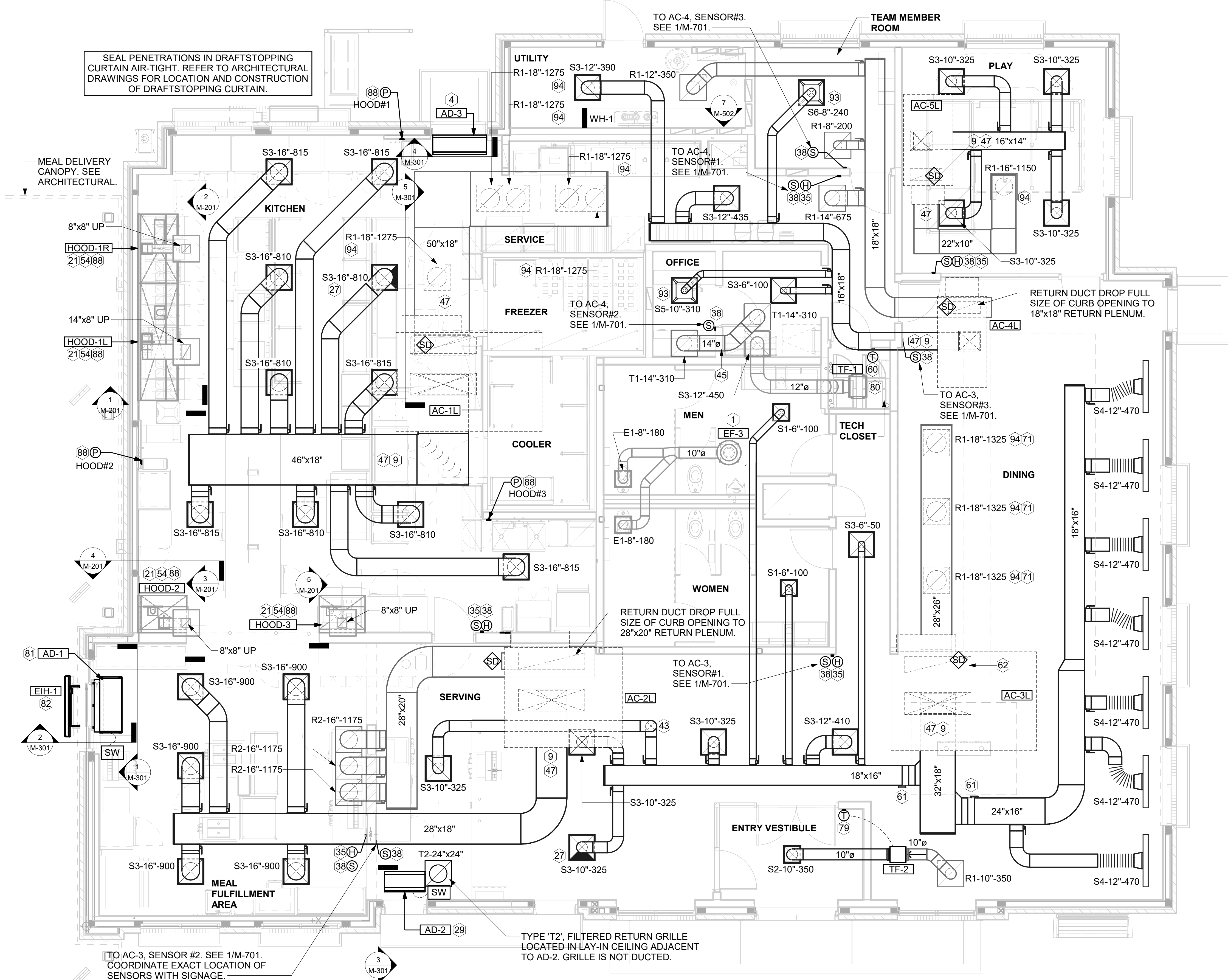
- 1 10" DIA. DUCT UP THRU ROOF.
- 4 AIR CURTAIN MOUNTED OVER DOOR HEADER AT 7'-2" AFF TO BOTTOM OF UNIT. PROVIDE BLOCKING IN WALL BEHIND AIR CURTAIN. USE FACTORY PRE-PUNCHED MOUNTING HOLES ON BACK SIDE OF AIR CURTAIN ONLY. ATTACH AIR CURTAIN TO WALL USING 3/8" LAG BOLTS. LENGTH AS REQUIRED TO FULLY PENETRATE BLOCKING. LOCATE MAGNETIC CONTACT TYPE MICROSWITCH IN DOOR FRAME ON STRIKE SIDE.
- 9 BRANCH TAKE-OFFS ARE NOT TO BE LOCATED CLOSER THAN 3'-0" FROM ANY OFFSET OR ELBOW INCLUDING THE SUPPLY AIR DROP FROM CURB.
- 21 HAL-TON KBD DAMPER AT HOOD COLLAR BY MECHANICAL CONTRACTOR. SEE HOOD ELEVATIONS ON M-201 FOR LOCATION.
- 27 MECHANICAL CONTRACTOR TO CLOSE THE AIR PATTERN DEFLECTORS ON SHADED SIDE.
- 29 MOUNT AIR CURTAIN ABOVE CEILING. REFER TO SECTION ON SHEET M-301. LOCATE MAGNETIC CONTACT TYPE MICROSWITCH IN DOOR FRAME ON STRIKE SIDE.
- 35 MOUNT HUMIDITY SENSOR ON WALL ABOVE SPACE TEMP SENSOR AND ROUTE WIRING TO UNIT ON ROOF.
- 38 MOUNT REMOTE SENSOR ON WALL AT 5'-0" AFF U.O. AND ROUTE WIRING BACK TO SUNCOAST TEMP CONTROL PANEL. FOR SENSOR SERVING AC#1, COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT. ROUTE DUCT WITHIN STRUCTURE.
- 43 TRANSFER AIR DUCT, NO BALANCING DAMPERS AT GRILLES.
- 45 TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. TRANSITION WITHIN CURB WHERE REQUIRED TO AVOID STRUCTURE. WHERE SUPPLY DUCT, PROVIDE ELBOWS WITH TURNING VANES. WHERE RETURN DUCT, NO TURNING VANES IN ELBOWS. HORIZONTAL DUCT MINIMUM 10" ABOVE CEILING TO BOTTOM OF DUCT.
- 54 SEE ELEVATIONS ON M-201 FOR C.J. FAN DUCTING REQUIREMENT.
- 60 MOUNT THERMOSTAT FOR TRANSFER FAN AT 4'-0" AFF.
- 61 PROVIDE RUSKIN CD35 MANUAL BALANCING DAMPER WITH 6" MAXIMUM BLADE WIDTH. OPPOSED BLADE ACTION, LOCKING QUADRANT HANDLE WITH 2" STANDOFF AND 16 GA GALVANIZED BLADE AND FRAME CONSTRUCTION.
- 62 RETURN DUCT FULL SIZE DOWN FROM CURB OPENING. TAP 28"x26" RETURN DUCT INTO SIDE OF PLENUM DROP. NO TURNING VANES.
- 71 CONTROL DAMPER SHALL BE INSTALLED FACING THE ACT CEILING FOR ACCESS.
- 79 PROVIDE 7 DAY PROGRAMMABLE THERMOSTAT, OCCUPIED/UNOCCUPIED TERMINALS. MOUNT THERMOSTAT ON WALL AT 4'-0" AFF. COOLED SETPOINTS: 75 DEG. F COOLING, 69 DEG. F HEATING; UNOCCUPIED SETPOINTS: 85 DEG. F COOLING, 55 DEG. F HEATING.
- 80 CEILING MOUNTED RECIRCULATING FAN. DUCT AND DISCHARGE TO SUPPLY DIFFUSER AS SHOWN.
- 81 MOUNT AIR DOOR IN CEILING. CENTERED ON DRIVE-THRU/MFA DOOR OPENING. REFER TO WIRING DIAGRAM ON SHEET M-702 FOR MORE INFORMATION.
- 82 ELECTRIC HEATER. MC TO MOUNT ON WALL PER MANUFACTURER'S RECOMMENDATIONS.
- 88 PULL STATION FOR KITCHEN EXHAUST HOOD MOUNTED 42" TO 48" A.F.F. COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT ELEVATIONS. JUNCTION BOX AND CONDUIT PROVIDED BY ELECTRICAL CONTRACTOR. PROVIDE PLASTIC ENGRAVED LABEL - RED WITH 1" HIGH WHITE LETTERING. LABELS SHALL BE AS FOLLOWS: HOOD #1 - "MAIN COOKLINE", HOOD #2 - "PASS THRU - RIGHT", HOOD #3 - "PASS THRU - LEFT".
- 93 MAXIMUM HEATING AND COOLING AIRFLOWS INDICATED. SET MINIMUM AIRFLOW TO 25 CFM.
- 94 TAKE OFF WITH DAMPER AT THE BOTTOM OF DUCTWORK. TYP.

**AIR BALANCE SCHEDULE CFA -...**

Mark	SUPPLY AIR	RETURN AIR	OUTSIDE AIR	EXHAUST AIR	BUILDING POSITIVE PRESSURE
AC-1L	8,125	6,375	1,750	0	
AC-2L	4,500	3,525	975	0	
AC-3L	5,250	3,975	1,275	0	
AC-4L	1,475	1,225	250	0	
AC-5L	1,300	1,150	150	0	
EF-1	0	0	0	1,913	
EF-2	0	0	0	1,402	
EF-3	0	0	0	360	
	20,650	16,250	4,400	3,675	725

**H.E.S. SYSTEM**

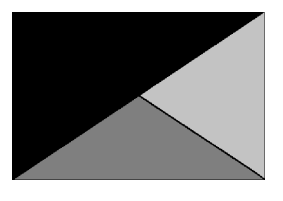
MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL SUNCOAST H.E.S. SYSTEM FOR ALL HOODS. SEE HOOD FAN/EQUIPMENT INTERLOCK WIRING DIAGRAM ON M-702 FOR MORE INFORMATION.



**1 EQUIPMENT AND DUCTWORK PLAN**  
1/4" = 1'-0"



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**FSR#05796**  
BUILDING TYPE / SIZE: P14 SE BASE  
RELEASE: 25.02  
PRINTED FOR: CONSTRUCTION  
**REVISION SCHEDULE**  
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SHEET  
**EQUIPMENT AND DUCTWORK PLAN - LENNOX**  
SHEET NUMBER

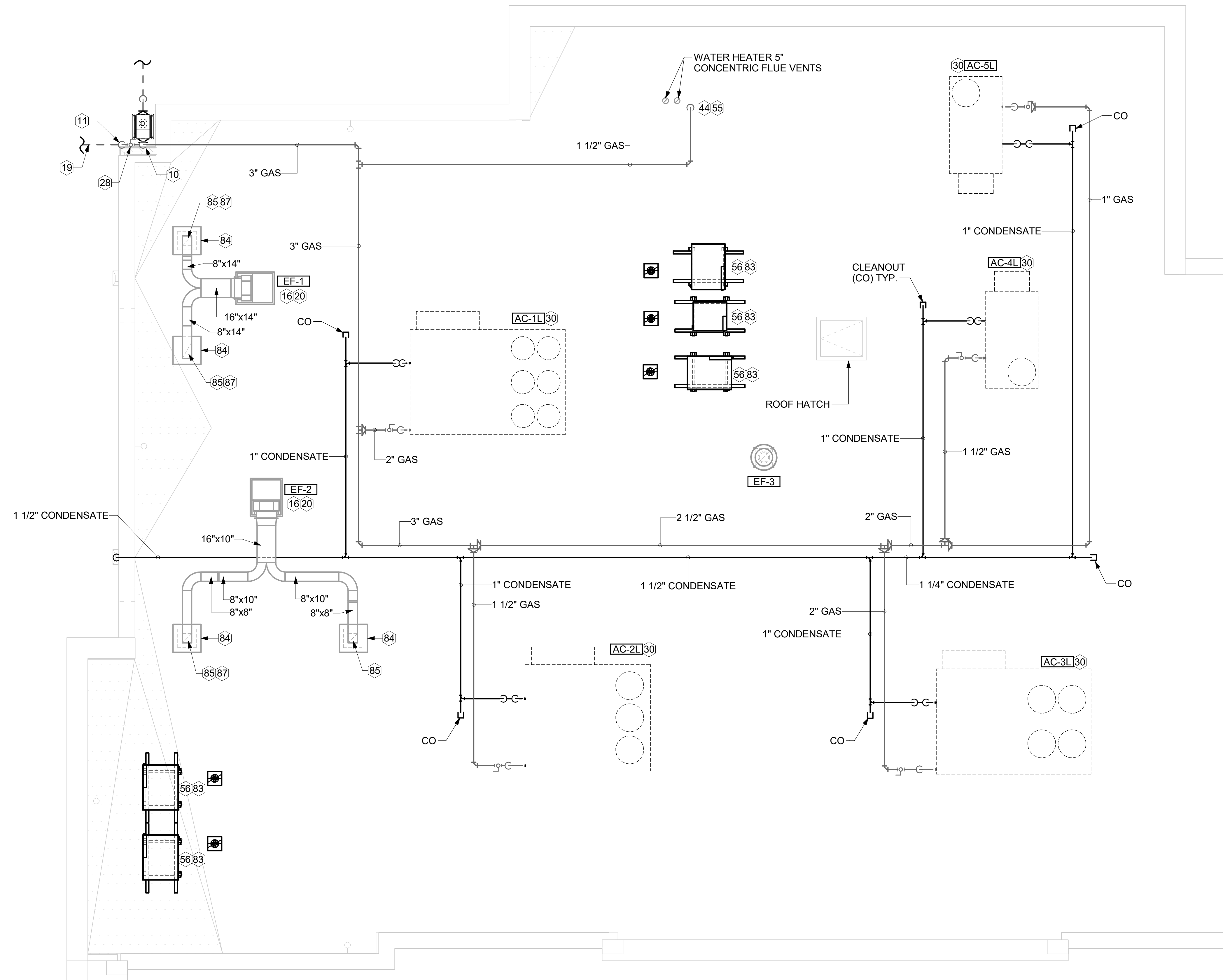
**M-101L**

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30-SE-05796-M-101L-EQUIPMENT AND DUCTWORK PLAN - LENNOX

**KEY NOTES**

- 10 TURN 3" GAS UP WITHIN WALL, THRU PARAPET AND ONTO ROOF.
- 11 ROUTE POLYETHYLENE GAS BELOW GRADE FROM THE METER. FOR TRANSITION FROM POLYETHYLENE PIPING BELOW GRADE TO STEEL AT THE METER, INSTALL ANODELESS RISER WITH INTEGRAL CONSTAB PE-TO-IPS TRANSITION FITTING BY CONTINENTAL INDUSTRIES OR EQUAL BY ELSTER.
- 16 VERIFY EXHAUST TERMINATION IS A MINIMUM 10'-0" FROM PARAPETS AND OUTSIDE AIR INTAKES. MINIMUM TERMINATION 40" ABOVE ROOF SURFACE. REFER TO MH-1.4 AND MH-1.5 FOR DETAILS.
- 19 2" GAS BELOW GRADE TO ORDER CANOPY, SEE DETAIL 2 SHEET M-103.
- 20 GREASE EXHAUST DUCT LOCATED ON ROOF SHALL SLOPE 1/4" PER FOOT TOWARDS THE HOOD, THE FAN, OR A COMBINATION OF THE TWO SUCH THAT NO PORTION OF THE RADIUS ELBOW AT THE CURB IS BELOW THE CURB CAP AND SUCH THAT THE FAN BASE SETS DIRECTLY ON THE CURB RAILS. THE BOTTOM OF THE RADIUS ELBOW MAY BE EVEN OR FLUSH WITH THE CURB CAP, BUT NOT BELOW THE CAP. THE DUCT AT THE FAN MUST BE CENTERED ON THE FAN INLET.
- 28 PROVIDE FULL PORT BALL VALVE EQUAL TO APOLLO 50GB SERIES WITH WINGS HANDLE OPTION ABOVE GRADE AT THE METER. PROVIDE BRASS VALVE TAG WITH JACK CHAIN AT VALVE MARKED "SERVICE SHUTOFF FOR CANOPY HEATERS."
- 30 MECHANICAL CONTRACTOR TO SEE ARCHITECTURAL ROOF PLAN FOR NOTES REGARDING LEVELING FRAMES FOR RTUS. COORDINATE WITH GENERAL CONTRACTOR EXACT LOCATIONS AND SIZE NEEDED.
- 44 1-1/2" GAS DOWN THRU ROOF TO WATER HEATER. SEE DETAIL 2/M-502 FOR MORE INFORMATION ON CONSTRUCTION AND PENETRATION.
- 55 SEE ARCHITECTURAL DETAILS FOR ROOFTOP PIPE PENETRATIONS.
- 56 GC SHALL PROVIDE EQUIPMENT STANDS AS MANUFACTURED BY AVCOA OR EQUAL. STANDS SHALL BE INSTALLED PRIOR TO ROOF INSULATION SO THAT THE INSULATION IS CONTINUOUS UP TO THE PIPE POSTS. POSTS SHALL BE FLASHED IN ACCORDANCE WITH ROOFING MANUFACTURER'S INSTALLATION INSTRUCTIONS. COORDINATE BLOCKING BELOW THE ROOF DECK AS REQUIRED.
- 83 DO NOT DISCHARGE OF CONDENSING UNITS INTO CONDENSER SECTION OF ROOFTOP UNITS, TYP.
- 84 ROOF CURB FOR DUCT PENETRATION. REFER TO MH-1.4 AND MH-1.5 FOR DETAILS.
- 85 TURN DOWN THRU ROOF. SEE M-101 FOR CONTINUATION.
- 87 DUCT PENETRATIONS ON ROOF MUST BE AT LEAST 18" FROM ADJACENT PARAPETS.

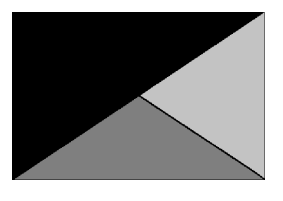
3. GAS LOAD SCHEDULE	
EQUIPMENT	GAS LOAD
AC-1L	480,000 BTUS
AC-2L	260,000 BTUS
AC-3L	360,000 BTUS
AC-4L	108,000 BTUS
AC-5L	65,000 BTUS
IRH (2 @ 50,000 BTU EA.)	100,000 BTUS
IRH (FUTURE 4 @ 50,000 BTU EA.)	200,000 BTUS
WATER HEATER	398,000 BTUS
<b>TOTAL FUTURE CONNECTED LOAD</b>	<b>1,971,000 BTUS</b>
REMARKS:	1. EQUIVALENT TO 1,971.0 CFH 2. 7" W.C. DELIVERY PRESSURE 3. DEVELOPED LENGTH: 205 FT. (METER TO AC-5L) 4. GAS PIPING SIZED FOR FUTURE LOAD



**1 EQUIPMENT ROOF PLAN - LENNOX**  
1/4" = 1'-0"



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**FSR#05796**  
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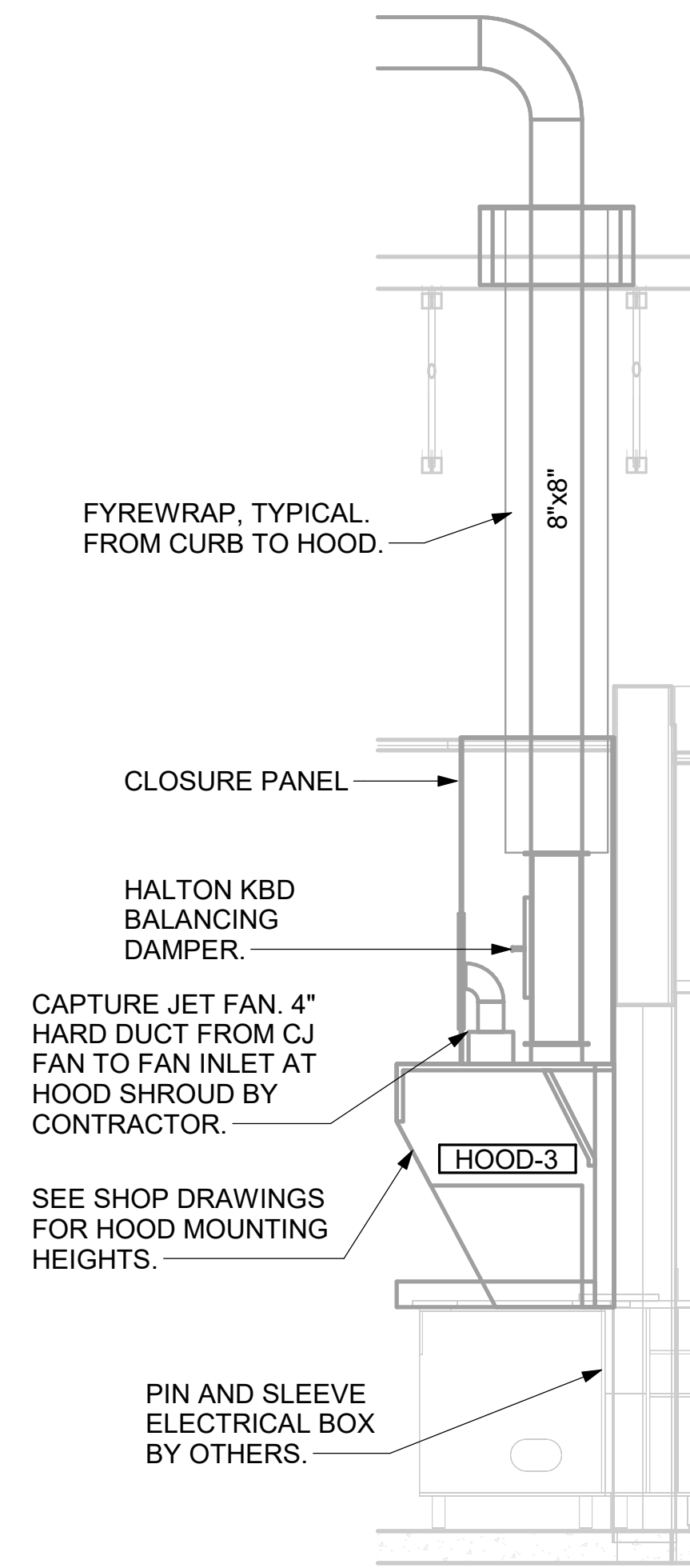
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SHEET  
EQUIPMENT ROOF PLAN - LENNOX

SHEET NUMBER  
**M-102L**

**GREASE EXHAUST DUCT CLEARANCE NOTE:**  
 CLEARANCES ABOVE CEILING ARE TIGHT. MECHANICAL CONTRACTOR TO FIELD VERIFY EXACT ROUTING AND CLEARANCES PRIOR TO FABRICATING GREASE EXHAUST DUCT.

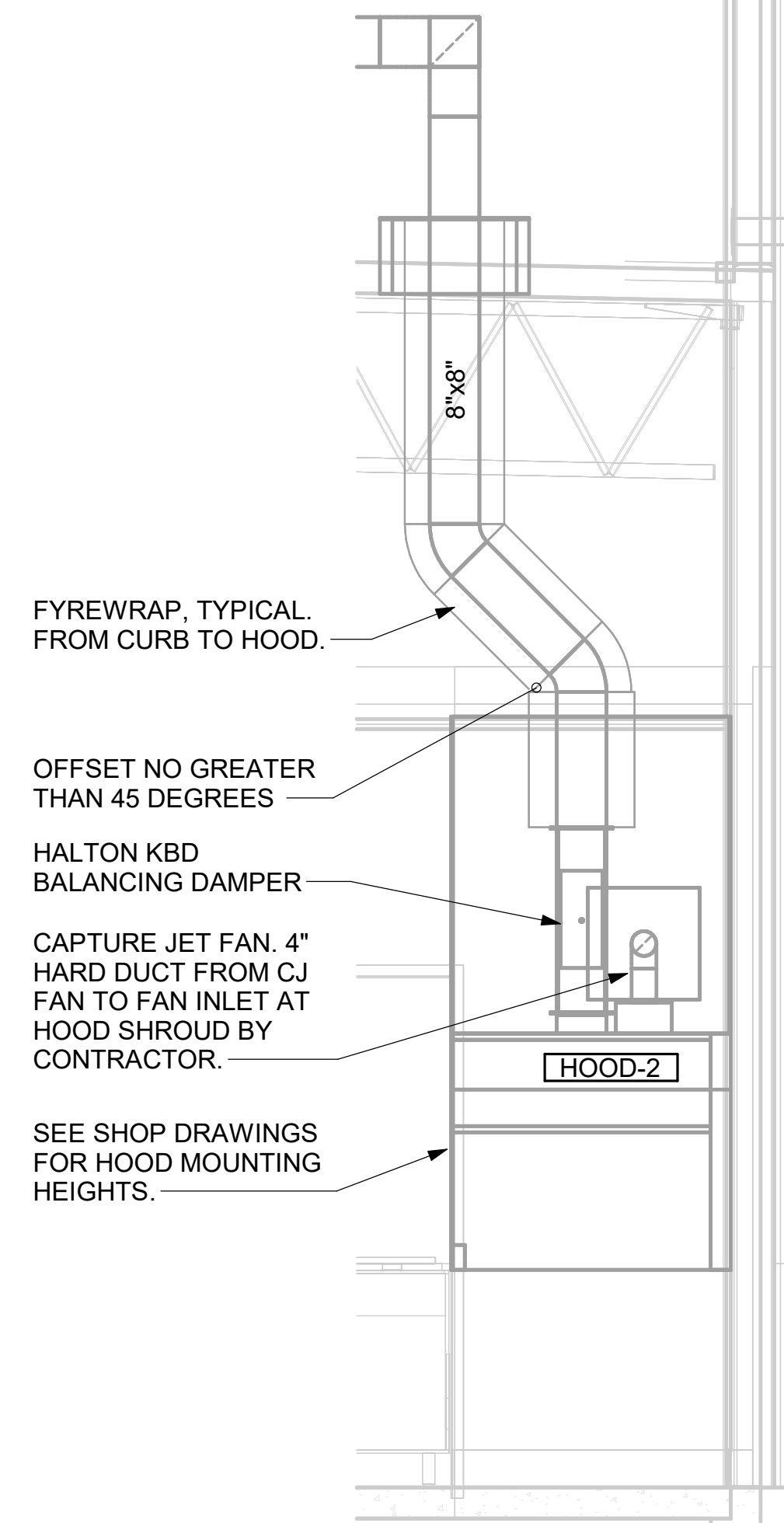
**CLEANOUT DOOR NOTE:**  
 DUCT WRAP SHALL BE APPLIED TO THE CLEANOUT DOOR PER THE WRAP MFR'S INSTALLATION INSTRUCTIONS. NO EXCEPTIONS. ALSO, THE CLEANOUT DOOR MUST BE REMOVABLE WITHOUT TOOLS AND MUST BE CLEARLY AND PERMANENTLY LABELED.

CRITICAL: MOUNT RIGHT SIDE OF HOOD#3 FLUSH WITH FINISHED EDGE OF PASS THRU OPENING.



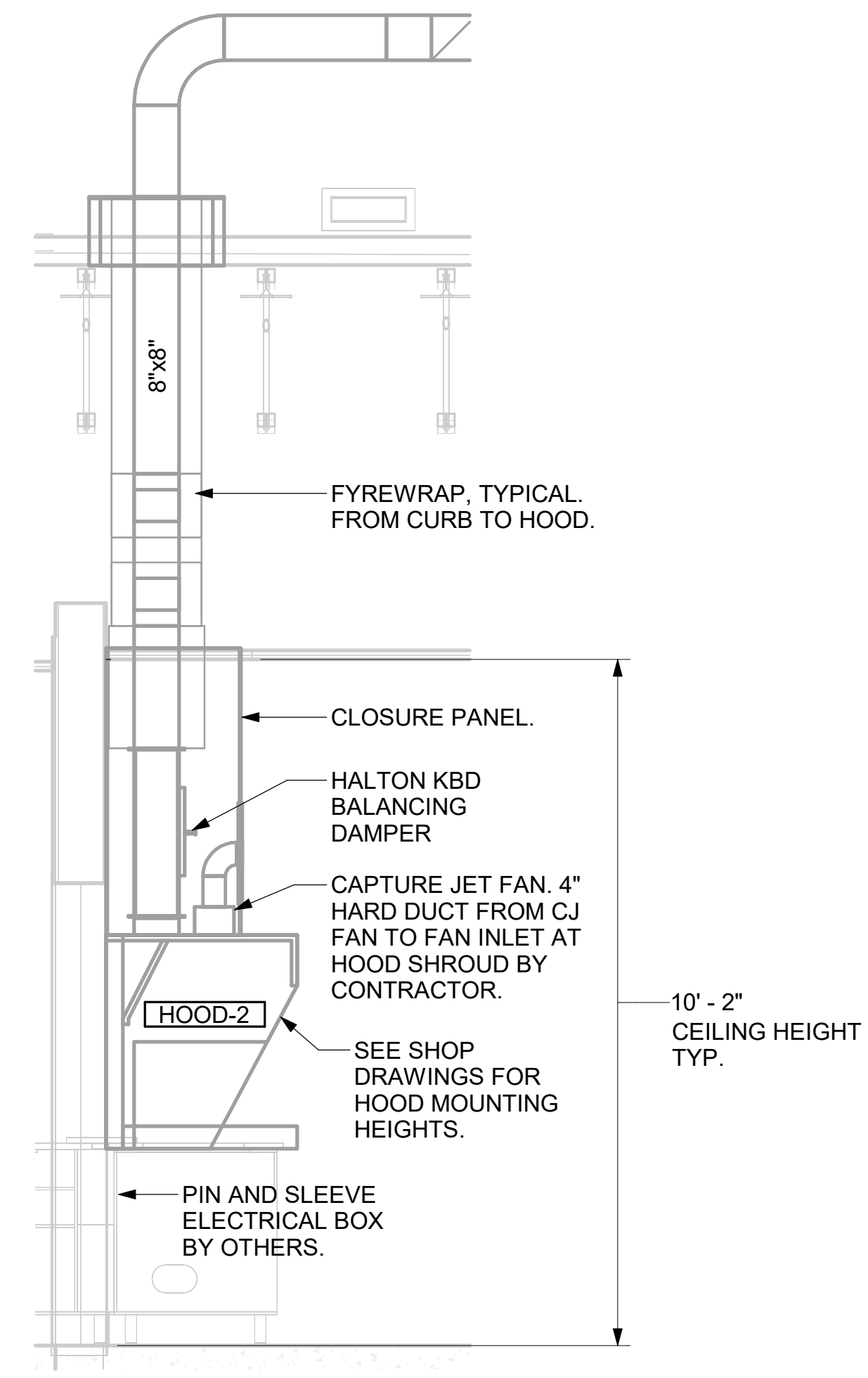
5 HOOD ELEVATION - HOOD#3  
 NOT TO SCALE

CRITICAL: MOUNT LEFT SIDE OF HOOD#2 FLUSH WITH FINISHED EDGE OF PASS THRU OPENING.

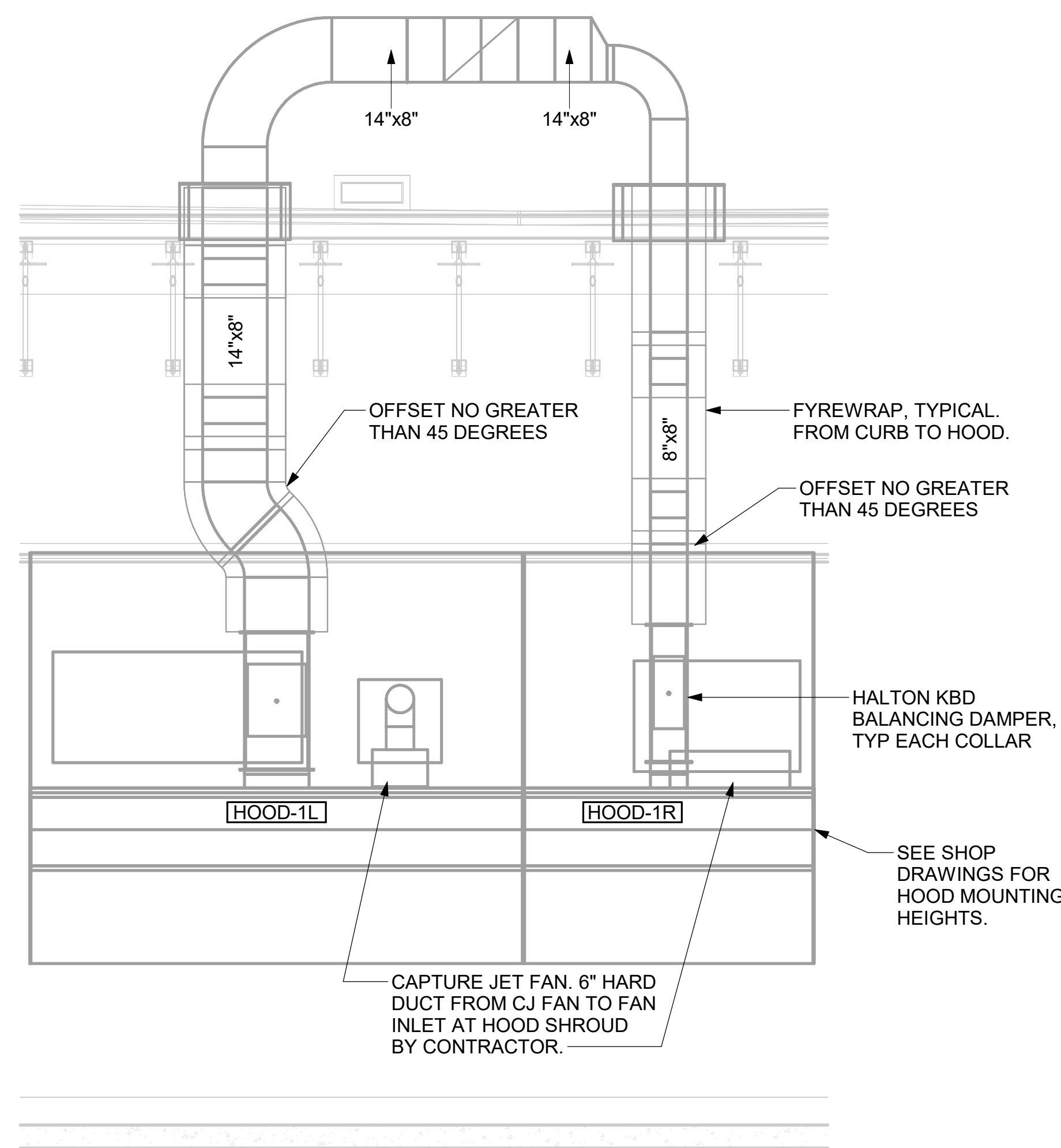


4 HOOD ELEVATION - HOOD#2 - FRONT  
 NOT TO SCALE

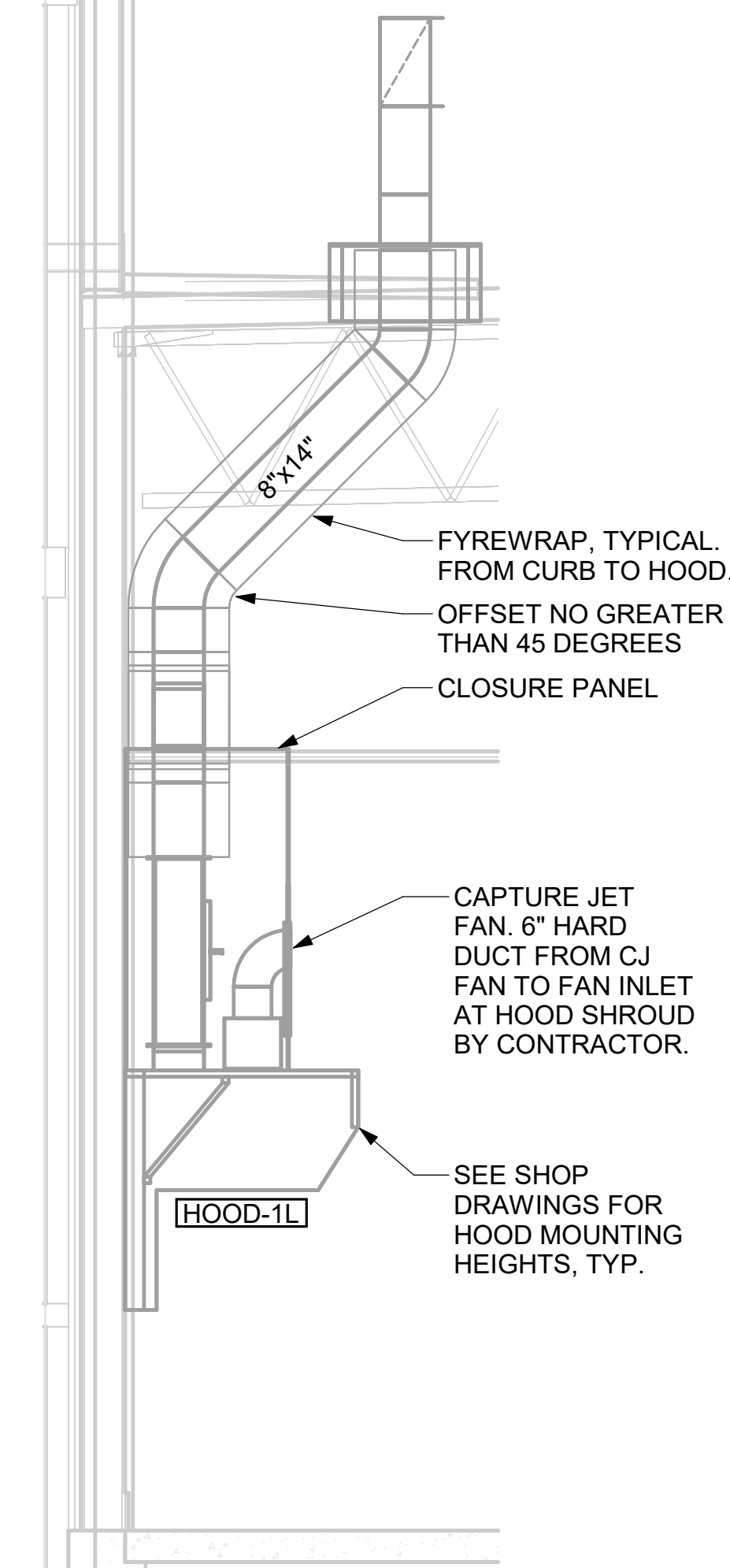
CRITICAL: MOUNT LEFT SIDE OF HOOD#2 FLUSH WITH FINISHED EDGE OF PASS THRU OPENING.



3 HOOD ELEVATION - HOOD#2 - SIDE  
 NOT TO SCALE



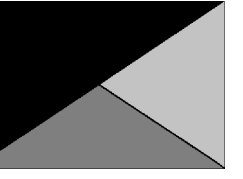
2 HOOD ELEVATION - HOOD#1 - FRONT  
 NOT TO SCALE



1 HOOD ELEVATION - HOOD#1 - SIDE  
 NOT TO SCALE



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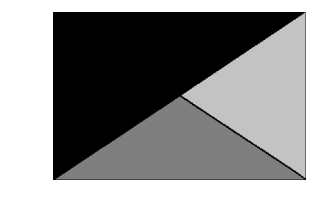
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**SHEET**  
 EXHAUST HOOD ELEVATIONS

SHEET NUMBER  
**M-201**



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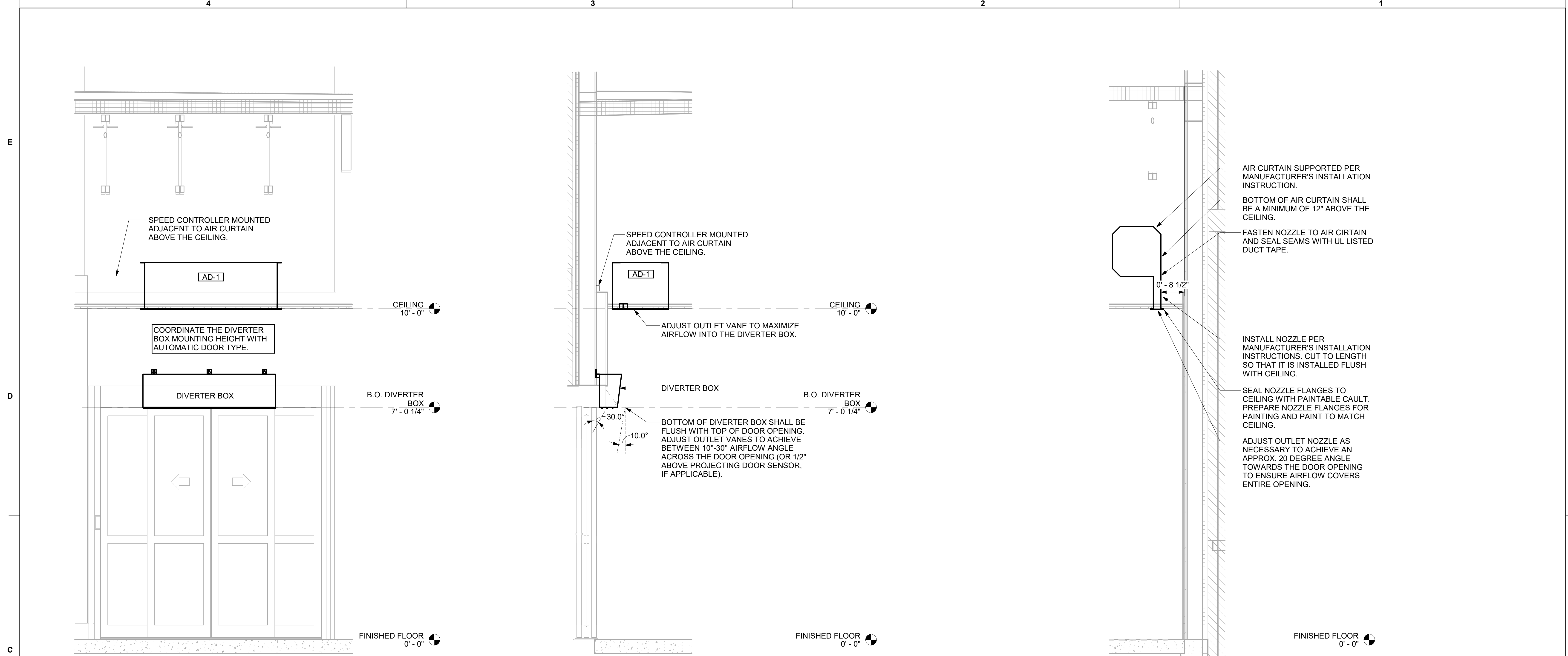
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SHEET SECTIONS

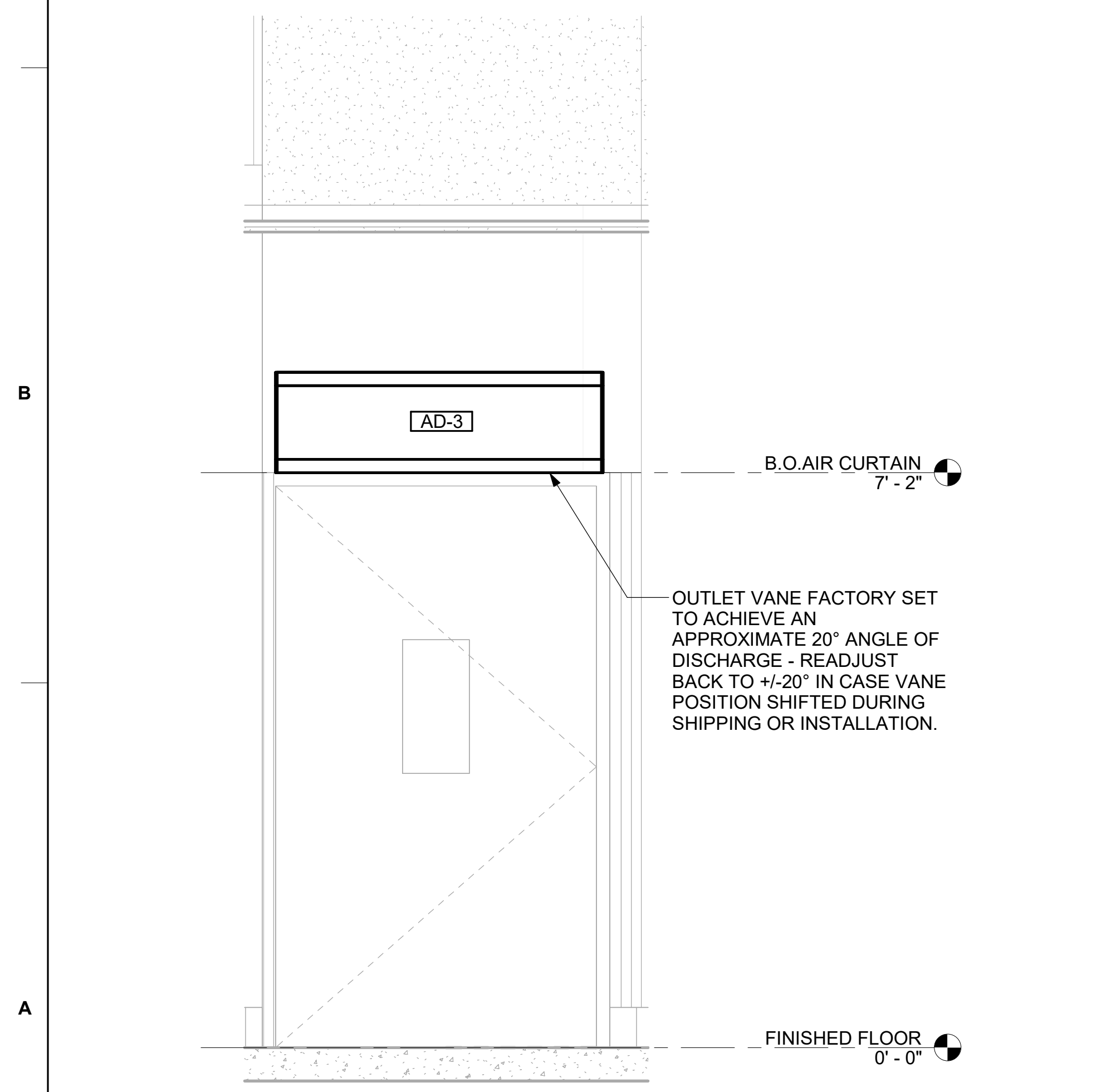
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**M-301**



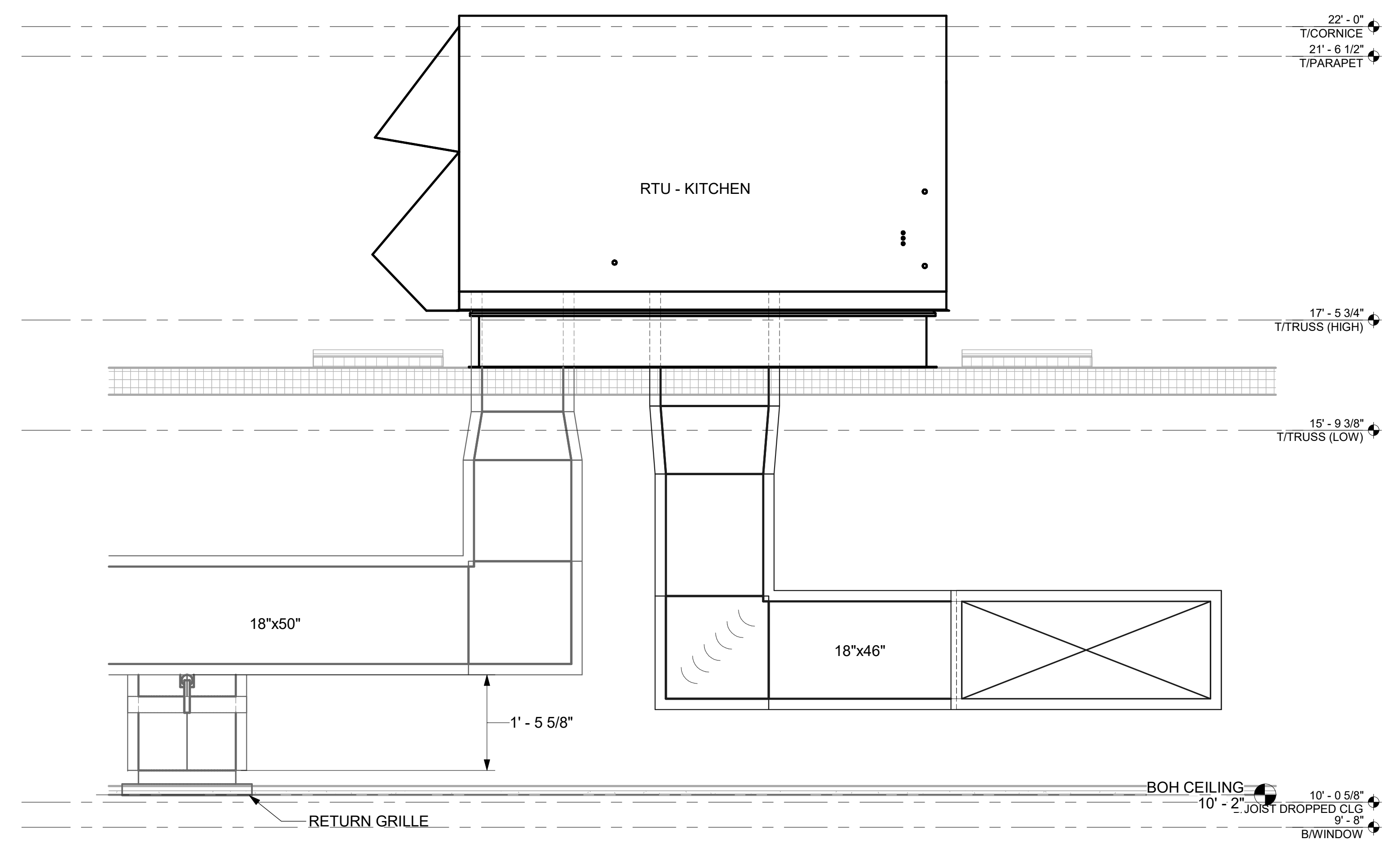
1 AD#1 FRONT VIEW  
3/4" = 1'-0"

2 AD#1 SIDE VIEW  
3/4" = 1'-0"

3 AD#2 SIDE VIEW  
3/4" = 1'-0"



4 AD#3 FRONT VIEW  
3/4" = 1'-0"

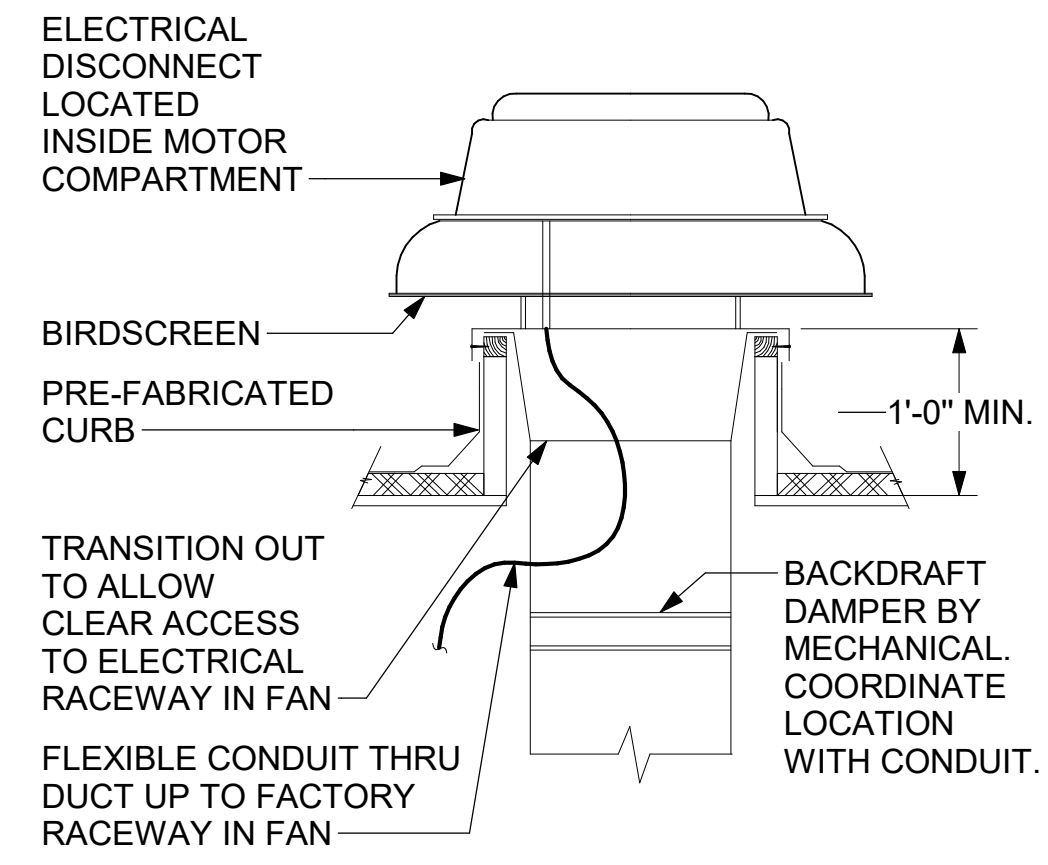


5 RETURN GRILLE DUCT CONNECTION - KITCHEN  
3/4" = 1'-0"

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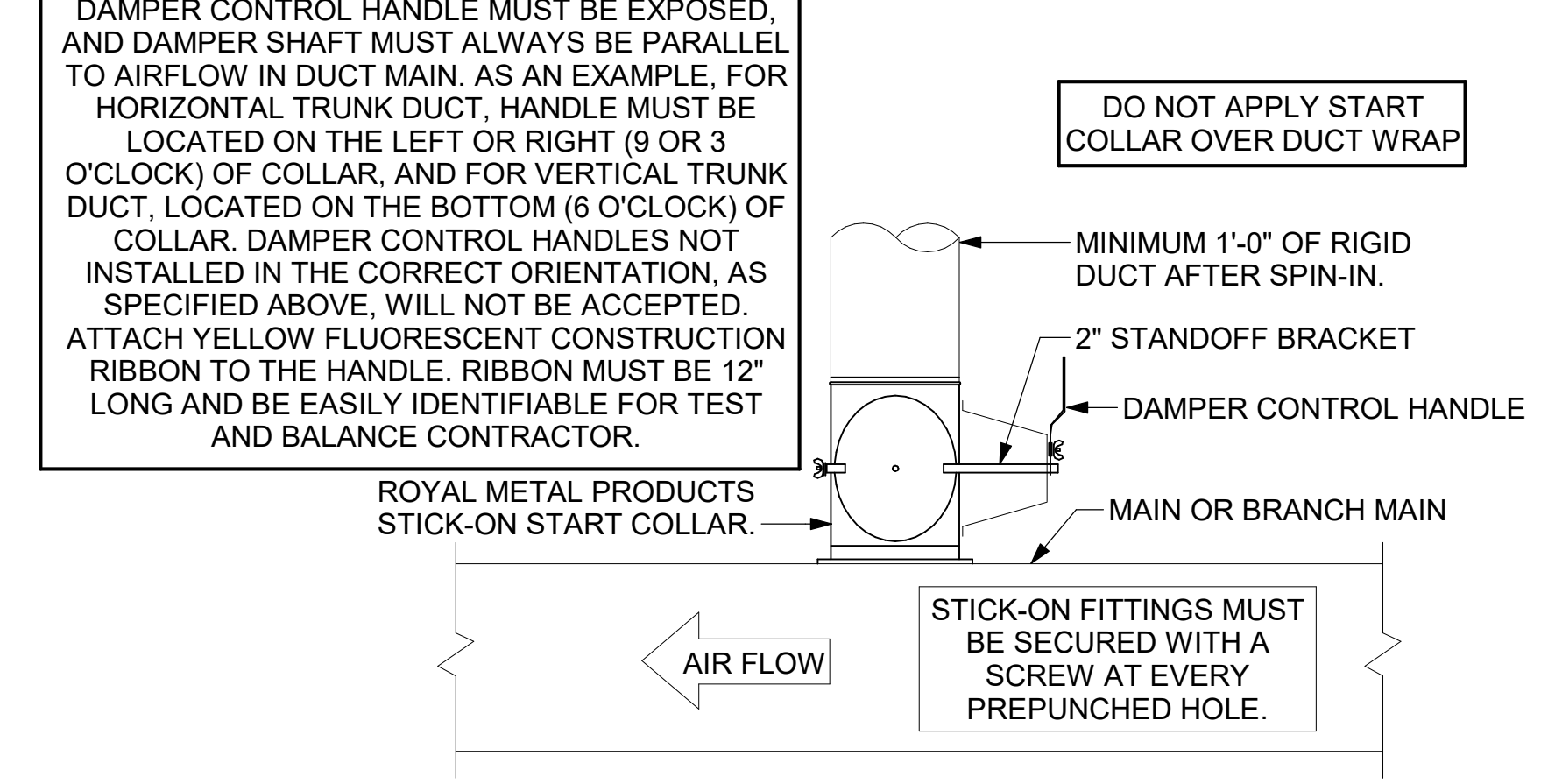
SECURE FAN TO CURB WITH HEX WASHER HEAD SELFDRILLING SCREW (#12 x 2"). THE FASTENERS SHALL BE 2" FROM EACH CORNER OF THE FAN BASE AND THE DISTANCE BETWEEN FASTENERS SHALL BE 4" OR LESS. MINIMUM 5 FASTENERS PER SIDE OF CURB. ALL FASTENERS ARE TO BE HIGH QUALITY CORROSION RESISTANT STEEL OR STAINLESS STEEL.

REFER TO STRUCTURAL DRAWINGS FOR ANCHORAGE OF FAN CURB TO STRUCTURE.

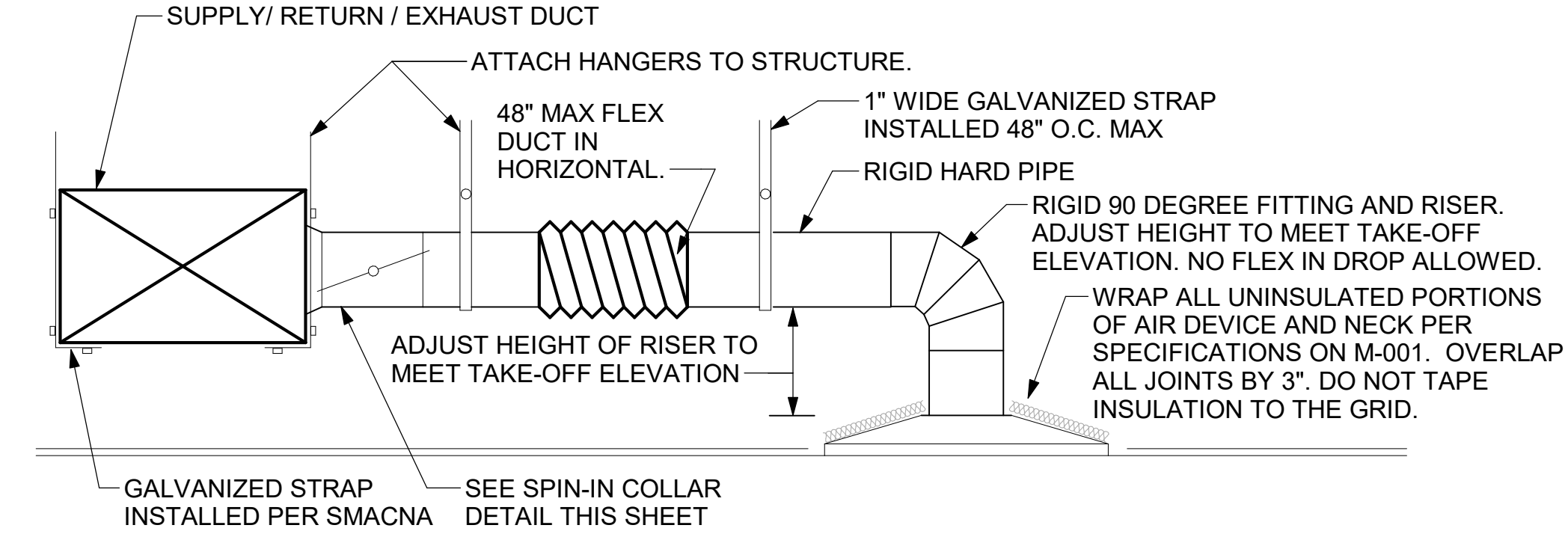


**3 RESTROOM EXHAUST FAN**  
NTS

CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE ROYAL METAL PRODUCTS START COLLARS FOR BOTH WITH AND WITHOUT A MANUAL BALANCING DAMPER. THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE ROYAL METAL PRODUCTS START COLLARS DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. ROYAL METAL PRODUCTS START COLLARS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.

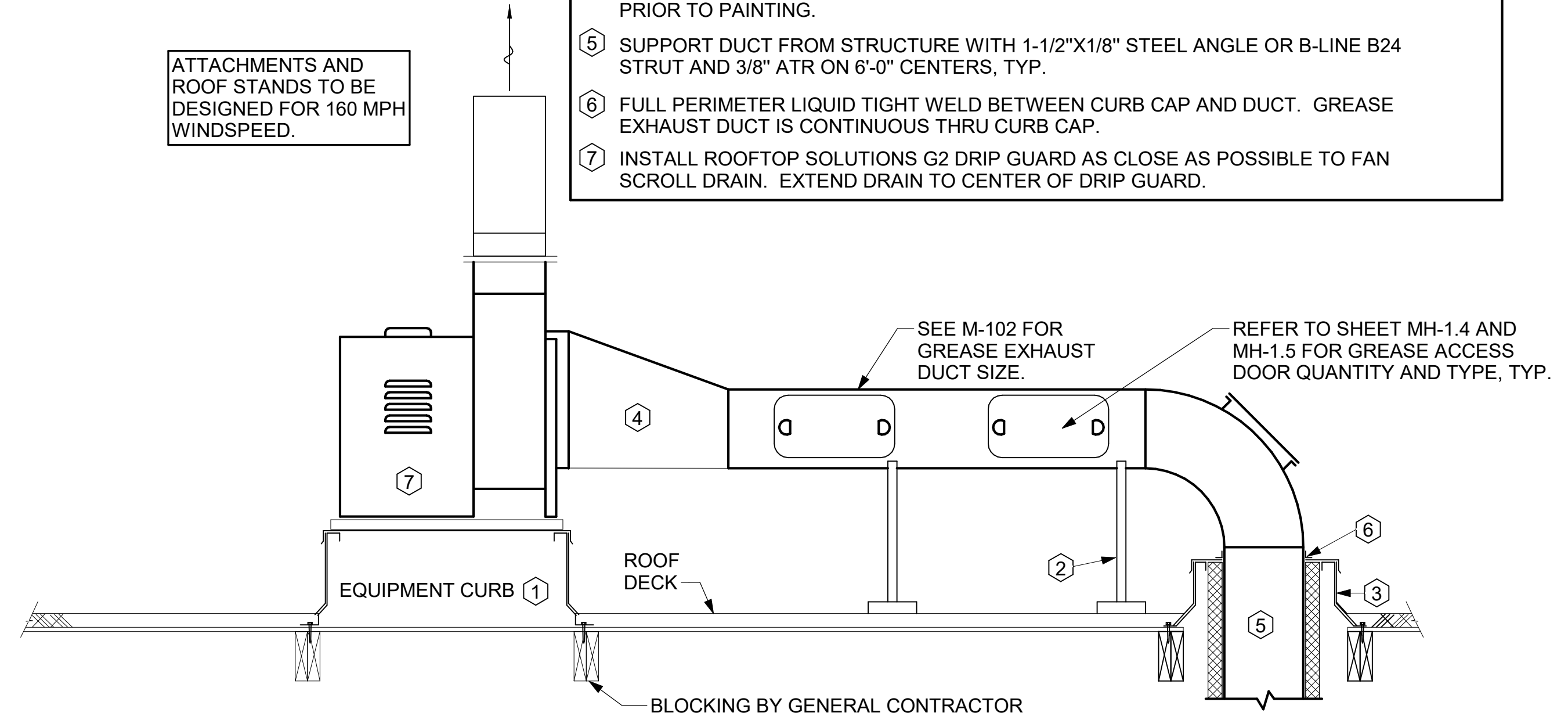


**2 START COLLAR**  
NTS

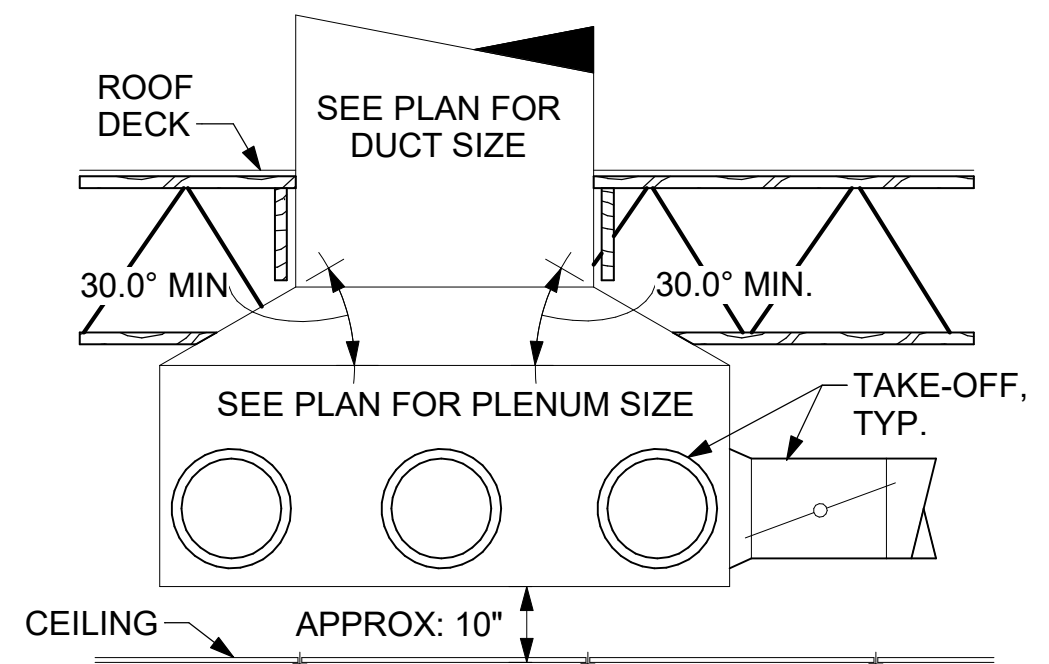


**1 SAG/RAG/GRILLE TAKE-OFF**  
NTS

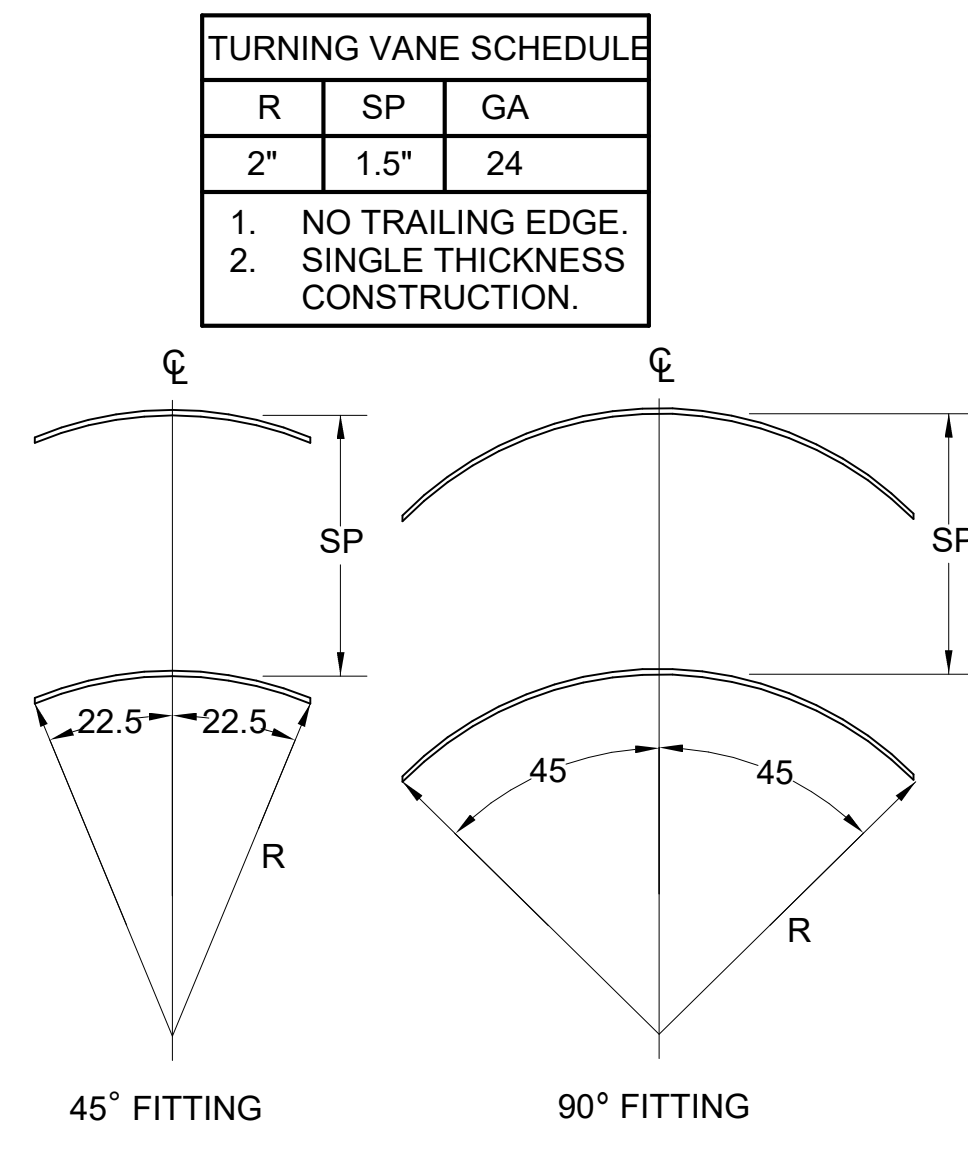
- KEYED NOTES:
- 22" EQUIPMENT CURB FURNISHED BY HALTON.
  - DUCT SUPPORT SHALL BE PROVIDED EVERY 8', AND WITHIN 12" OF ANY FITTING OR WELD SEAM. SUPPORTS SHALL BE SECURELY ATTACHED TO THE STRUCTURE AND DESIGNED TO CARRY GRAVITY, WIND, AND SEISMIC LOADS PER CODE.
  - 12" HIGH INSULATED CURB FURNISHED BY HALTON. MECHANICAL CONTRACTOR TO PROVIDE MINIMUM 18 GA STAINLESS STEEL CURB CAP AND FLASHING.
  - ALL DUCTWORK AND UNFINISHED METAL ON ROOF EXCEPT STAINLESS SHALL BE PREPARED WITH TWO COATS OF SHERWIN WILLIAMS B66-200 SERIES DTM WHITE ACRYLIC SEMI-GLOSS INDUSTRIAL MAINTENANCE COATING. DEGREASE AND PRIME BARE METAL SURFACE WITH ONE COAT OF SHERWIN WILLIAMS DTM ACRYLIC PRIMER PRIOR TO PAINTING.
  - SUPPORT DUCT FROM STRUCTURE WITH 1-1/2"x1/8" STEEL ANGLE OR B-LINE B24 STRUT AND 3/8" ATR ON 6'-0" CENTERS, TYP.
  - FULL PERIMETER LIQUID TIGHT WELD BETWEEN CURB CAP AND DUCT. GREASE EXHAUST DUCT IS CONTINUOUS THRU CURB CAP.
  - INSTALL ROOFTOP SOLUTIONS G2 DRIP GUARD AS CLOSE AS POSSIBLE TO FAN SCROLL DRAIN. EXTEND DRAIN TO CENTER OF DRIP GUARD.



**6 KITCHEN HOOD EXHAUST FAN - UTILITY SET**  
NTS



**5 RETURN DROP GEOMETRY**  
NTS

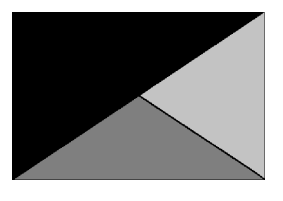


**4 TURNING VANES**  
NTS



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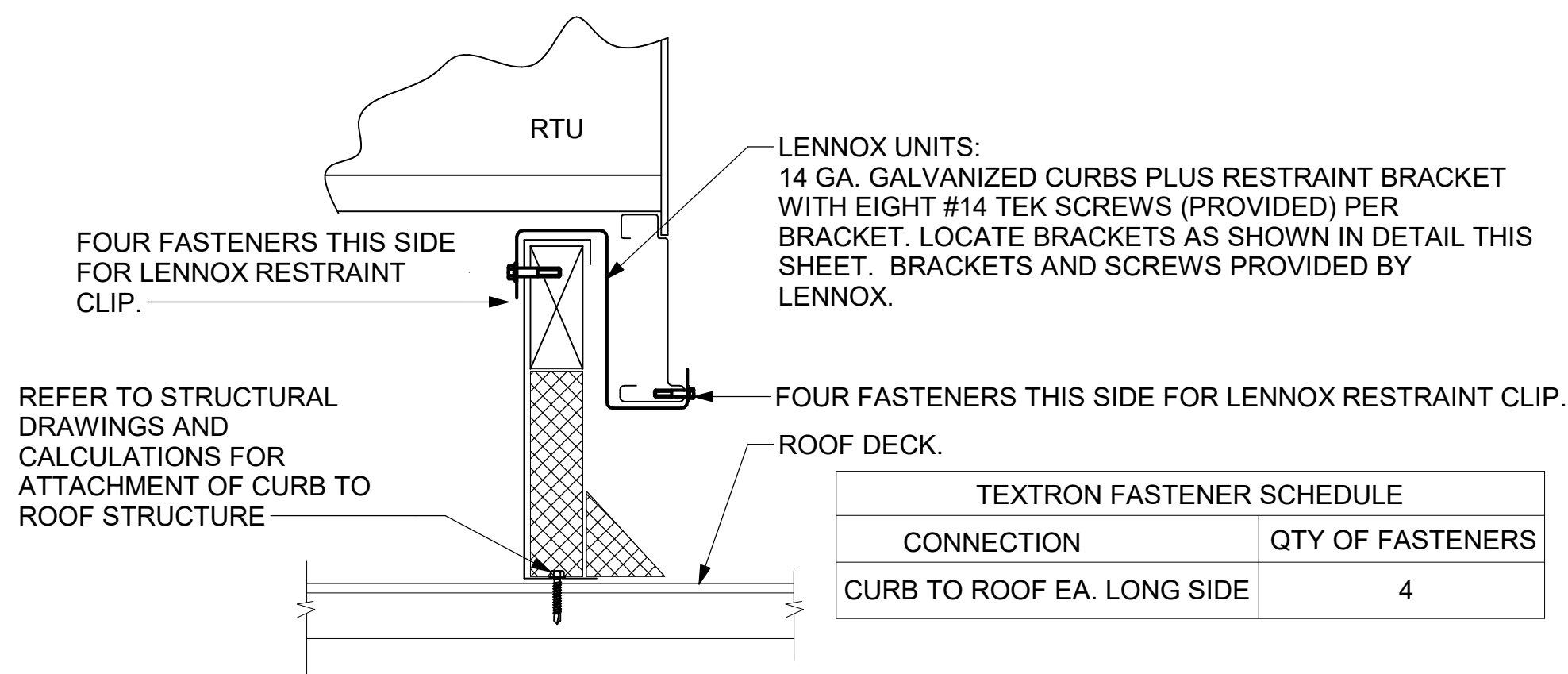
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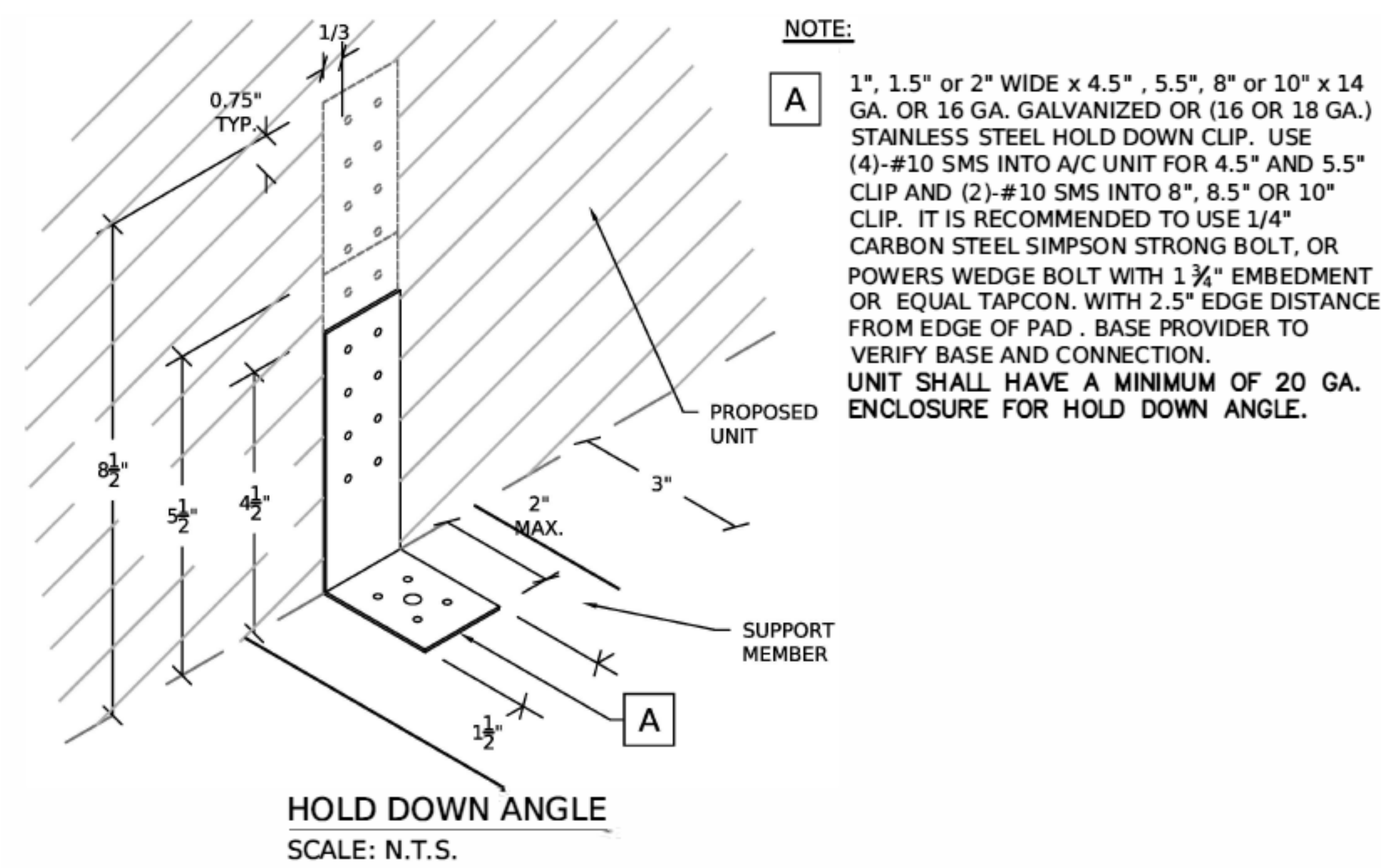
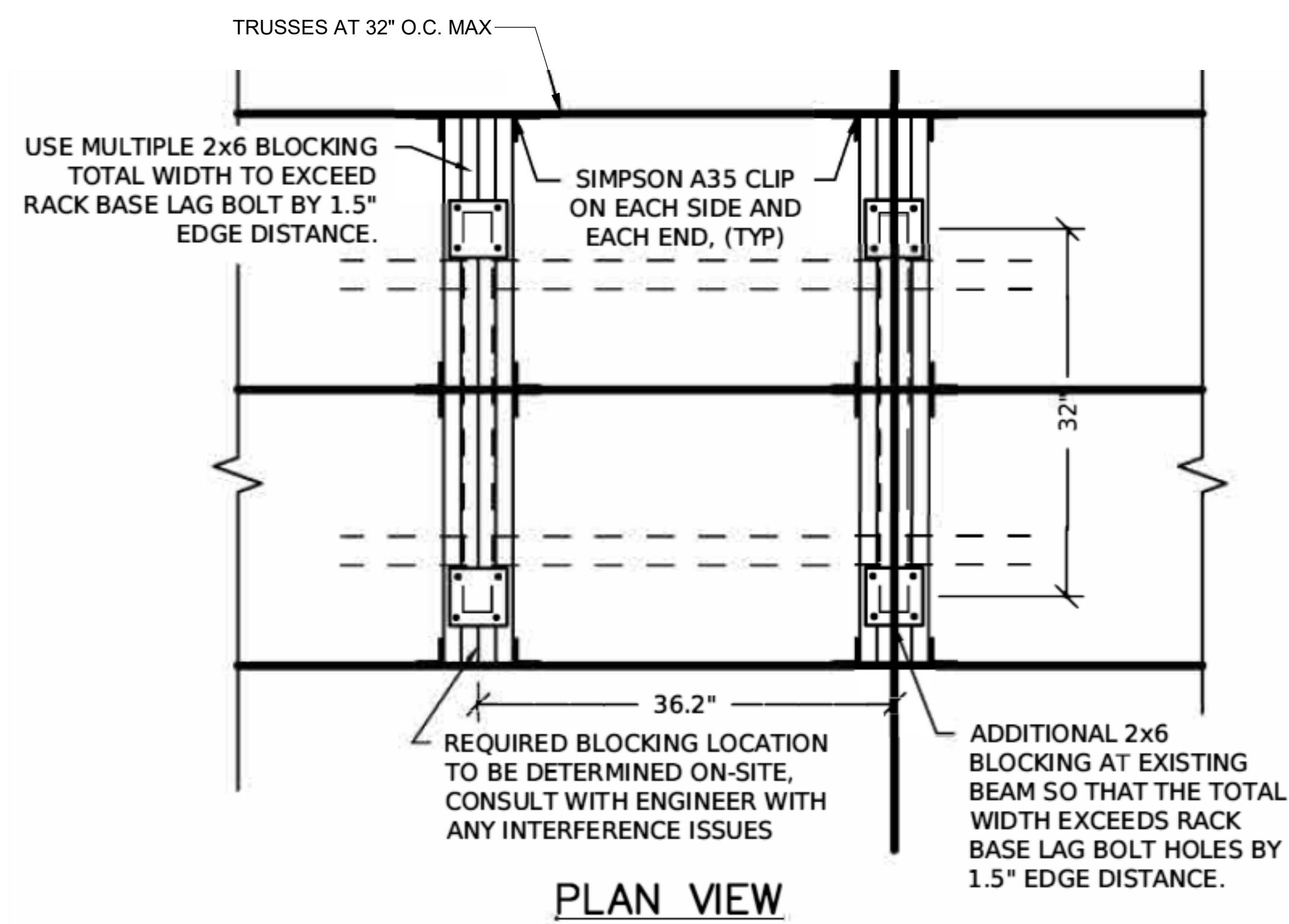
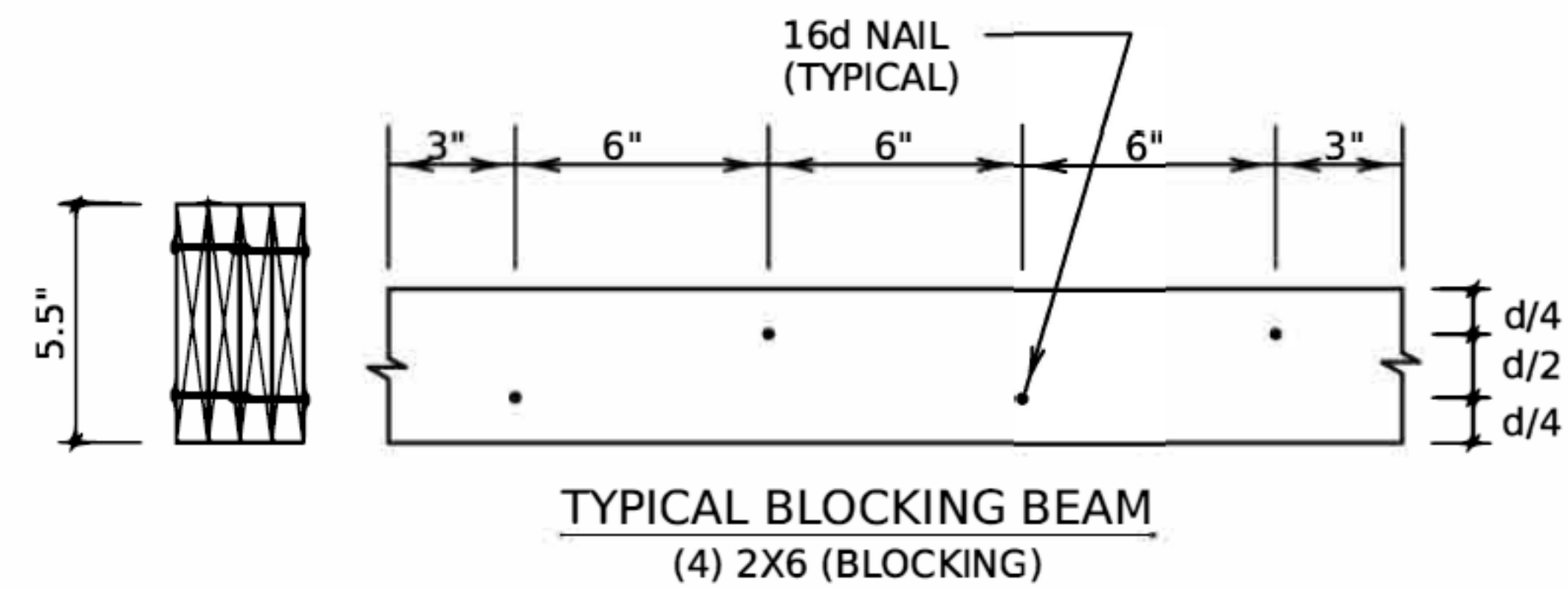
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DATE 04/10/2025  
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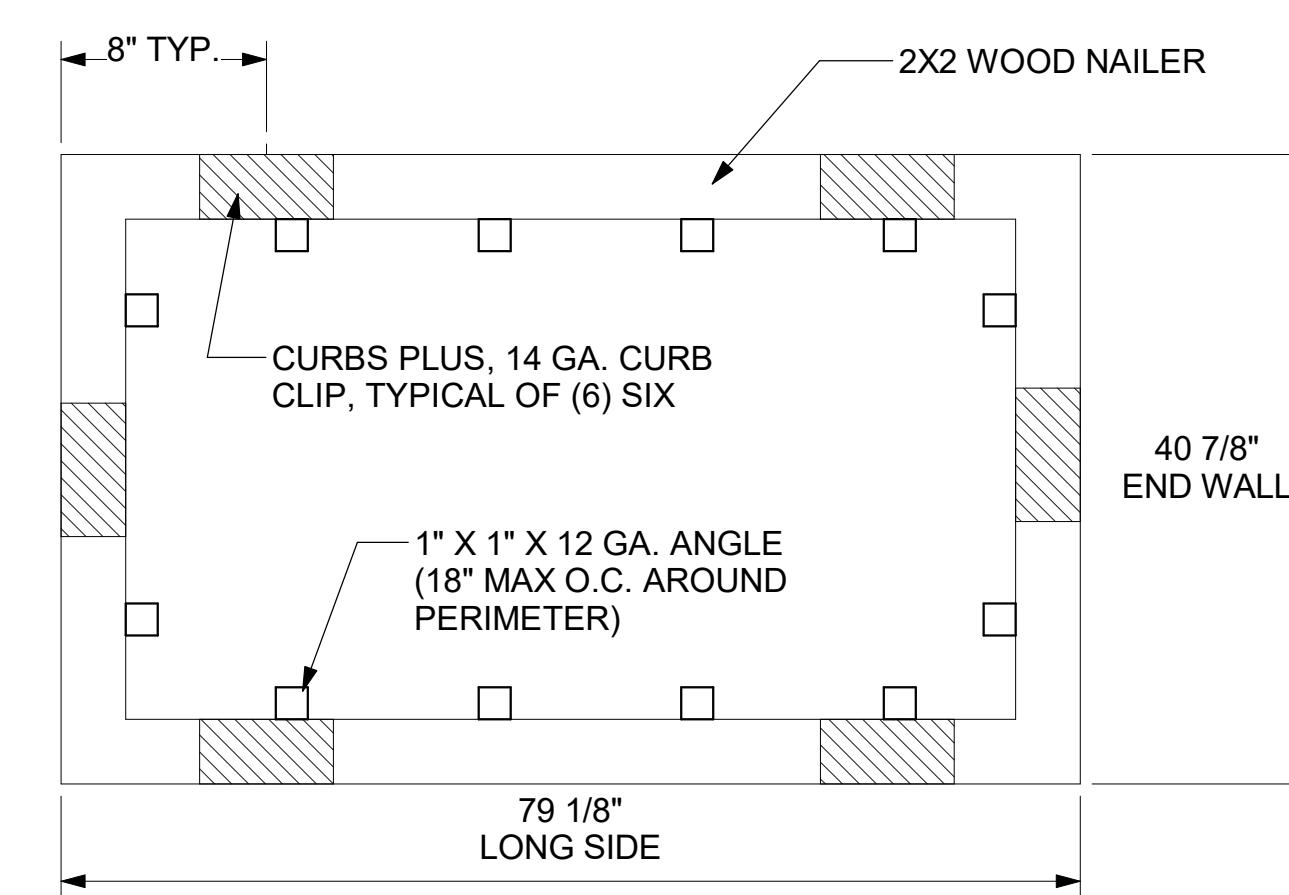
SHEET  
**DETAILS**  
SHEET NUMBER  
**M-501**



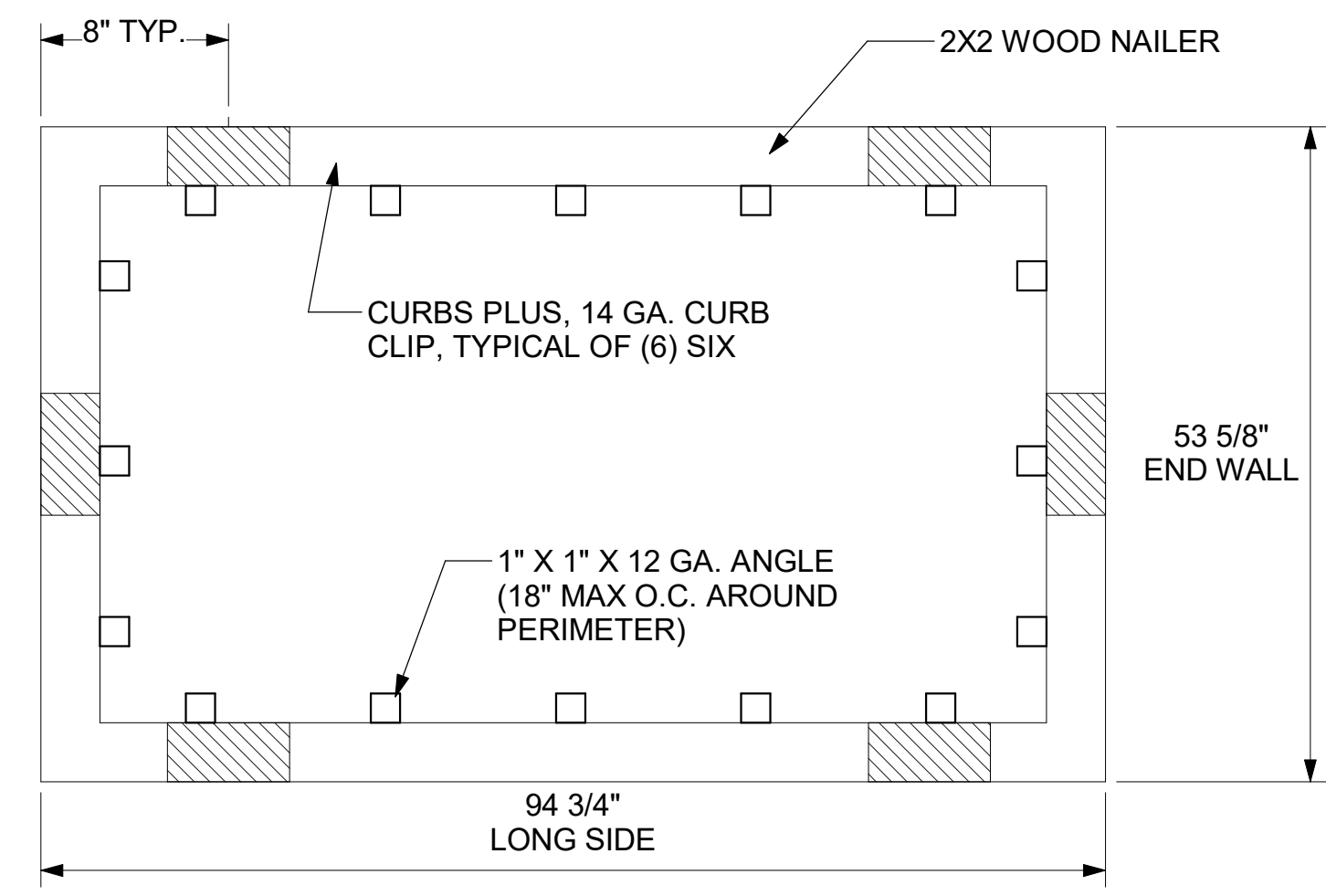
3 RTU CURB BRACKET  
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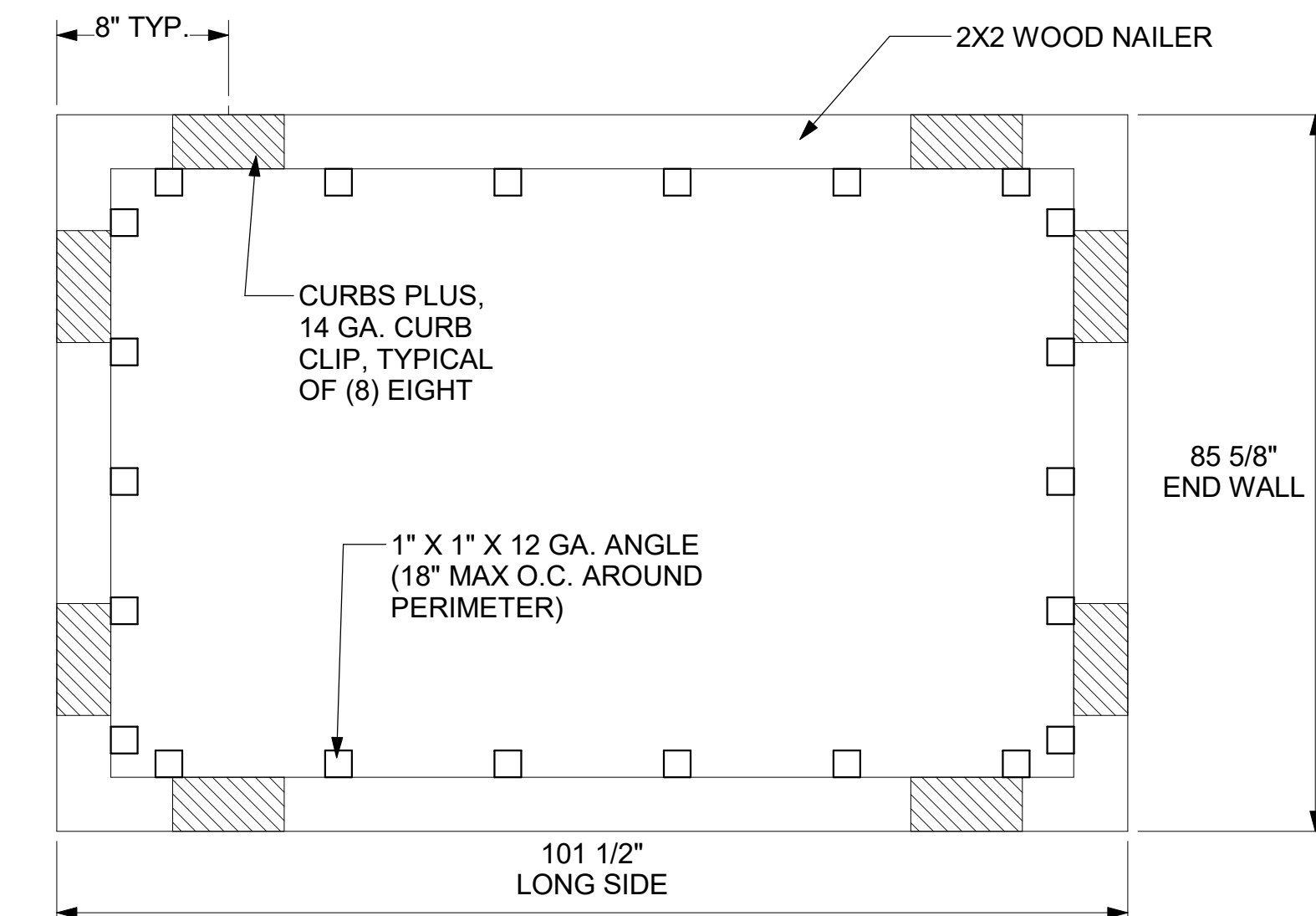
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LENNOX LGT MODELS 024 THRU 072

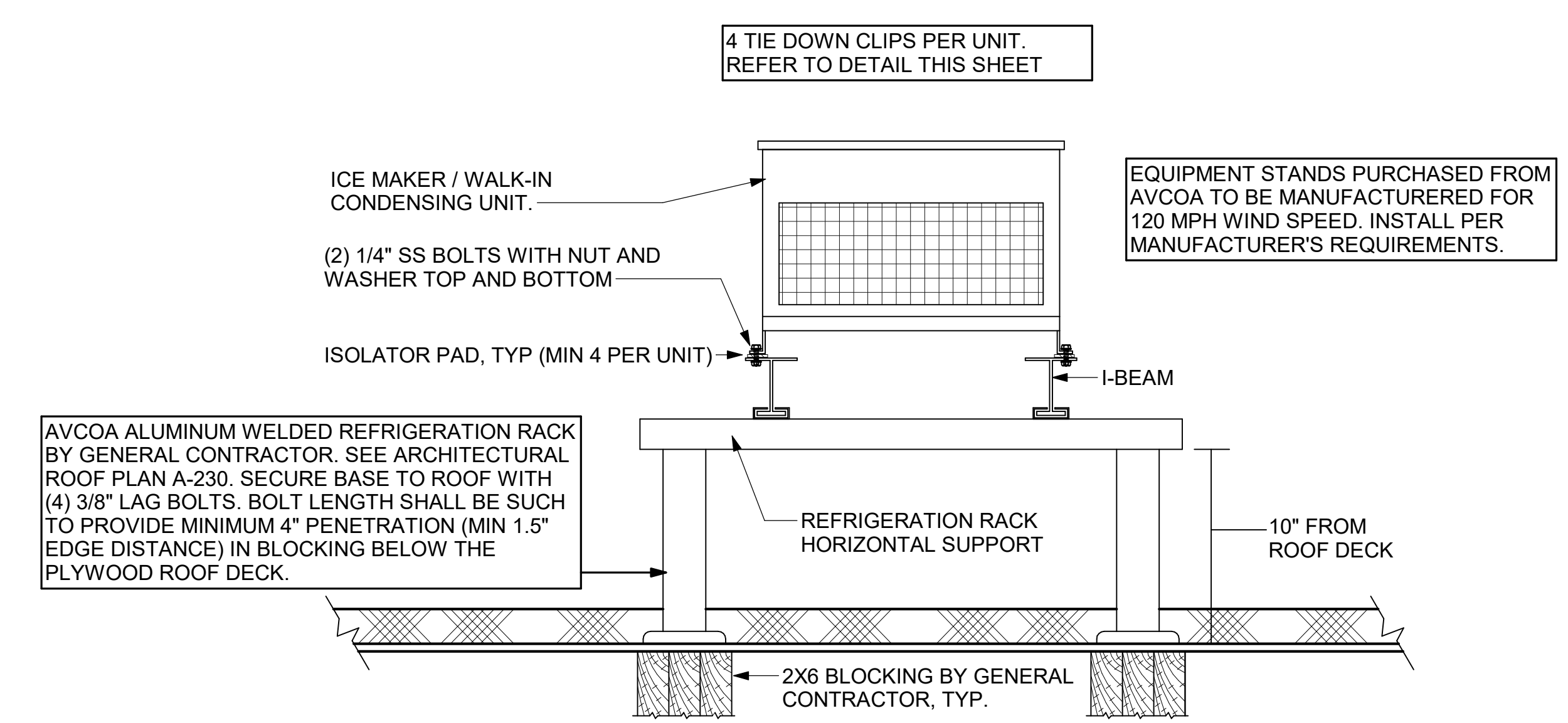


LENNOX LGT MODELS 092 THRU 150



LENNOX LGT MODELS 156 THRU 300

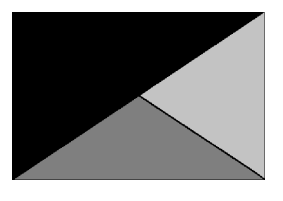
4 RTU CURB CLIP INSTALLATION  
NOT TO SCALE



1 CONDENSING UNIT TIE DOWN DETAIL  
NTS



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Ocean Springs FSU  
3419 Bienville Blvd  
Ocean Springs, MS 39564

FSR#05796  
BUILDING TYPE / SIZE: P14 SE BASE  
RELEASE: 25.02

PRINTED FOR CONSTRUCTION

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 25036.CC.S  
DATE 04/10/2025  
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SHEET WIND DETAILS

SHEET NUMBER  
M-503

**ROOFTOP UNIT SCHEDULE - LENNOX**

MARK	MANUFACTURER	MODEL	EER/IEER	SEER2	TOTAL WEIGHT	SUPPLY AIRFLOW (CFM)	OA (CFM)	HP	ESP (in-wg)	TOTAL COOLING MBH	SENSIBLE COOLING MBH	HEATING INPUT MBH	HEATING OUTPUT MBH	VOLTAGE (V)	PHASE	MCA (A)	MOCP (A)	REMARKS
AC-1L	LENNOX	LGT300H5M	10.6/14.3		3205.00 lb	8,125	1,750	7.5	0.80	276.0	197.3	480	389	208	3	138	150	1,3-14
AC-2L	LENNOX	LGT156H5M	12/15.4		2568.00 lb	4,500	975	3	0.80	146.9	107.9	260	211	208	3	71	90	1,3-14
AC-3L	LENNOX	LGT180H5M	12/15.4		2682.00 lb	5,250	1,275	5	0.80	177.2	127.9	360	292	208	3	76	90	1,3-14
AC-4L	LENNOX	LGT048H4E		17.3	934.00 lb	1,475	250	1.5	0.80	49.0	34.6	108	87	208	3	20	30	2-14
AC-5L	LENNOX	LGT048H4E		17.3	934.00 lb	1,300	150	1	0.80	46.7	32	65	52	208	3	26	35	1,3-14

NOTES

- MECHANICAL CONTRACTOR TO VERIFY LENNOX SUBMITTAL WITH CONSTRUCTION DOCUMENTS. NATIONAL ACCOUNT - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004.

REMARKS

- DIFFERENTIAL ENTHALPY ECONOMIZER WITH POWER EXHAUST.
- DIFFERENTIAL ENTHALPY ECONOMIZER WITH BAROMETRIC EXHAUST.
- 14" HIGH ROOF CURB. PROVIDE CURB RESTRAINT CLIPS FOR PROJECT WINDSPEED. WINDSPED = 160 MPH.
- SEE DETAIL 2/M-701L FOR SETTING OF CONTROL PARAMETERS BY MC.
- FACTORY INSTALLED 115V GFI SERVICE OUTLET. SEPERATE 115V CIRCUIT PROVIDED BY ELECTRICAL CONTRACTOR.
- FACTORY INSTALLED RETURN AIR SMOKE DETECTOR.
- FACTORY INSTALLED NON-FUSED DISCONNECT.
- 2" MERV 8 THROW AWAY FILTERS.
- HINGED PANELS FOR ACCESS TO FILTER(S), FAN BLOWER & MOTOR, COMPRESSOR(S) ACCESS AND CONTROLS.
- FACTORY COIL HAIL GUARD, FIELD INSTALLED.
- HOT GAS DEHUMIDIFICATION OPTION WITH WALL MOUNTED HUMIDITY SENSOR.
- FACTORY CONFIGURED PHASE LOSS PROTECTION.
- FACTORY INSTALLED CONDENSATE PAN DRAIN OVERFLOW SWITCH.
- 100K SCOR RATING.

**HOOD SCHEDULE**

MARK	MANUFACTURER	MODEL	EXHAUST CFM	SP @ TAB PORT (in-wg)	CAPTURE JET CFM & S.P.	TYPE	COLLAR SIZE	WIDTH	DEPTH	HEIGHT	REMARKS
HOOD-1L	HALTON	KVL-2 IC	1,204	0.13	80 @ 0.30"	BACKSHELF	14"X8"	107"	37"	38"	1
HOOD-1R	HALTON	KVL-2 IC	709	0.13	47 @ 0.30"	BACKSHELF	8"X8"	63"	37"	38"	1
HOOD-2	HALTON	KVL-C-IC	701	0.3	30 @ 0.29"	BACKSHELF	8"X8"	45"	34"	38"	1
HOOD-3	HALTON	KVL-C-IC	701	0.3	30 @ 0.29"	BACKSHELF	8"X8"	42"	34"	38"	1

NOTES

DIMENSIONS OF HOODS INCLUDE BACK AND SIDE SPACERS (HEIGHT DOES NOT INCLUDE CLOSURE PANELS). NATIONAL ACCOUNTS - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004.

REMARKS

- REFER TO HOOD SHOP DRAWINGS FOR HOOD CONSTRUCTION AND OPTIONS. REFER TO HOOD SHOP DRAWINGS ON SHEETS MH-1.1, MH-1.2, AND MH-1.3 FOR REFERENCE.

**ELECTRIC HEATER SCHEDULE**

MARK	MANUFACTURER	MODEL	HEATING INPUT (kW)	FRAME LENGTH	FRAME WIDTH	FRAME HEIGHT	MOUNTING TYPE	VOLTAGE (V)	PHASE	FLA (A)	MOCP (A)	REMARKS
EIH-1	BROMIC	BH0420035	6.00	56"	8.5"	3.5"	WALL BRACKET	208	1	28.9	40	1, 2, 3, 4

NOTES

- NATIONAL ACCOUNT NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004.
- CONFIRM HEATER QUANTITY WITH CANOPY SHOP DRAWINGS.

REMARKS

- STAINLESS STEEL LENS WITH BLACK EMISSIVE COATING.
- PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND.
- PROVIDE BLACK HEATER WITH HIGH TEMPERATURE COATING, AND MANUFACTURER MOUNTING BRACKETS.
- PROVIDE BROMIC WALL MOUNTED ELECTRIC HEATER MODEL: BH0420033 FOR 220-240V SITES.

**GAS HEATER SCHEDULE**

MARK	MANUFACTURER	MODEL	HEATING INPUT (MBH)	FRAME LENGTH	FRAME WIDTH	FRAME HEIGHT	MOUNTING TYPE	REMARKS
IRH	SPACE-RAY	WB50	50.0	48"	13.37"	9.5"	BRACKET	1,2,3,4,5

NOTES

- NATIONAL ACCOUNT NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004.
- CONFIRM HEATER QUANTITY WITH CANOPY SHOP DRAWINGS.

REMARKS

- STAINLESS STEEL LENS WITH BLACK EMISSIVE COATING.
- STEEL BURNER WITH CERAMIC BURNER TILES.
- PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. MOUNT TO CANOPY DECK, FACING FORWARD, 12" Laterally FROM THE LONG SIDE OF THE HEATER.
- STAINLESS STEEL HEAT SHIELDS.
- REFER TO ELECTRICAL DRAWINGS FOR DISCONNECTING MEANS, CONDUIT, CONDUCTOR, AND CONNECTION REQUIREMENTS.

**FAN SCHEDULE**

MARK	AREA SERVED	MANUFACTURER	MODEL	TOTAL WEIGHT	FAN CFM	ESP (in-wg)	HP	MOTOR RPM	VOLTAGE (V)	PHASE	FLA (A)	MOCP (A)	REMARKS
CF-1	OUTDOOR CANOPY	TPI	U-18-TE-HD	20.00 lb	1,900	0.01	0.1	1,625	120	1	1.1	20	20,21,22
EF-1	HOOD#1	HALTON	KEFB-14-CFA	393.00 lb	1,913	0.75	0.75	1,620	115	1	13.8	25	1,2,3,4,5,6,7,8,9,10,11
EF-2	HOOD#2 & HOOD#3	HALTON	KEFB-14-CFA	393.00 lb	1,402	0.95	0.75	1,410	115	1	13.8	25	1,2,3,4,5,6,7,8,9,10,11
EF-3	RESTROOMS	ACCUREX	XRED-095-VG	49.00 lb	360	0.375	0.167	1,550	115	1	2.2	20	1,3,11,12,13,14,15,16
TF-1	TECH CLOSET	GREENHECK	SP-A510-VG	33.00 lb	450	0.3	0.127	1,800	115	1	3.3	20	1,17,18,19
TF-2	VESTIBULE	GREENHECK	SP-A510-VG	33.00 lb	350	0.3	0.067	1,800	115	1	2.5	20	1,17,20

NOTES

- GREASE EXHAUST FAN RPM BASED ON 80 DEGREE F AIR AT 1000 FEET ABOVE SEA LEVEL.

REMARKS

- FANS SUPPLIED BY HALTON. PURCHASED BY OWNER. WIRING DIAGRAMS PROVIDED BY HALTON.
- U.L. 705 LISTED AND LABELED FOR RESTUARANT APPLICATIONS.
- FACTORY INSTALLED PREWIRED DISCONNECT SWITCH.
- 19" HIGH ROOF CURB.
- INSTALL ROOFTOP SOLUTIONS G2 DRIP GUARD. MECHANICAL CONTRACTOR TO CONTACT ROOFTOP SOLUTIONS AT 800-913-7034.
- FACTORY WEATHER HOUSING W/ HINGED ACCESS DOOR.
- FACTORY DRAIN CONNECTION.
- FACTORY BOLTED ACCESS DOOR ON SCROLL.
- FACTORY INSTALLED BELT DRIVE WITH ADJUSTABLE MOTOR SHEAVE, SPARE BELT, AND BELT TENSIONER.
- FACTORY INSTALLED OUTLET WITH QUICK RELEASE, HINGED ACCESS, AND GRAVITY BACKDRAFT DAMPER.
- INTEGRAL THERMAL OVERLOAD.
- BIRDSCREEN.
- BACKDRAFT DAMPER IN DUCT BY MECHANICAL CONTRACTOR AS SHOWN ON 5/M-501.
- STARTER BY ELECTRICAL CONTRACTOR. INTERLOCK WITH LIGHTS BY ELECTRICAL CONTRACTOR.
- 12" HIGH CURB.
- FACTORY INSTALLED AND WIRED SPEED CONTROLLER.
- PROVIDE NEMA 1 PREWIRED DISCONNECT.
- INTEGRAL POTENTIOMETER ON FAN MOTOR. SET TO FULL SPEED.
- PROVIDE THERMOSTAT / TEMPERATURE CONTROLLER, SET TO 76°F.
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE WITH ON/OFF SWITCH.
- FAN SUPPLIED BY TOM BARROW OR POWERS OF ARKANSAS FOR THE SOUTHWEST REGION.

**AIR DOOR SCHEDULE**

MARK	AREA SERVED	MANUFACTURER	MODEL	CFM	VELOCITY (FPM)	HEATING (kW)	MOTOR HP	MCA (A)	MOCP (A)	VOLTAGE (V)	PHASE	REMARKS
AD-1	DRIVE THRU	POWERED AIRE	CHA-1-48E	1,543	2,338	10	0.75	42	45	208	3	1,2,3,5
AD-2	SERVING	POWERED AIRE	ETA-1-36	1,197	2,443	0	0.75	14	15	120	1	1,2,4,6
AD-3	REAR DOOR	POWERED AIRE	RBT-1-48	3,867	4,218	0	0.75	10	15	120	1	4

NOTES

- NATIONAL ACCOUNT - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004

REMARKS

- FACTORY PROVIDED, WIRED, AND UNIT MOUNTED SPEED CONTROLLER ABOVE CEILING.
- FACTORY WIRED DISCONNECT.
- FACTORY PROVIDED, FIELD INSTALLED BY MC, REMOTE WALL SWITCHES FOR HEATING ON/OFF AND FAN ON/AUTO SWITCH. SEE DETAILS ON M-702.
- FACTORY PROVIDED MAGNETIC DOOR CONTACT WITH FACTORY INSTALLED LOW VOLTAGE CONTROLS LOCATED IN AIR DOOR CABINET.
- PROVIDE WITH A DIVERTER BOX. PROVIDE WITH MOUNTING BRACKETS PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE WITH NOZZLE EXTENSION, SEE DETAIL M-301.

**AIR DEVICE SCHEDULE**

MARK	AREA SERVED	DESCRIPTION	NECK SIZE	FACE SIZE	FRAME TYPE	REMARKS
E1	RESTROOMS	PRICE MODEL APDDR ALUMINUM PERFORATED FACE RETURN AIR GRILLE.	8"	12"x12"	LAY-IN	1,3,4,9
R1	DINING/KITCHEN/ MFA/BOH/PLAY	PRICE MODEL 80 EGGCRATE RETURN AIR GRILLE WITH REMOVABLE WHITE CORE, FACTORY FLAT BLACK BACKPAN AND ROUND NECK.	VARIES	24"x24"	LAY-IN	1,5,6
R2	MFA	PRICE MODEL 80 EGGCRATE RETURN AIR GRILLE WITH REMOVABLE WHITE CORE, FACTORY FLAT BLACK BACKPAN AND ROUND NECK.	VARIES	24"x24"	LAY-IN	1,5,6,10
S1	RESTROOMS	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	VARIES	12"x12"	LAY-IN	1,2,4,6,9
S2	VESTIBULE	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	10"	16"x16"	LAY-IN	1,2,4,6,9
S3	DINING/KITCHEN/ MFA/BOH/PLAY	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	VARIES	24"x24"	LAY-IN	1,2,4,6
S4	DINING	PRICE MODEL TBDI2150 T-BAR SUPPLY DIFFUSERS	12"	48"x5"	LAY-IN	1,8
S5	OFFICE	PRICE VARITHERM PLAQUE DIFFUSER	10"	24"x24"	LAY-IN	1,6,7
S6	TEAM MEMBERS	PRICE VARITHERM PLAQUE DIFFUSER	8"	24"x24"	LAY-IN	1,6,7
T1	OFFICE	PRICE MODEL 80 EGGCRATE TRANSFER AIR GRILLE WITH REMOVABLE WHITE CORE, FACTORY FLAT BLACK BACKPAN AND ROUND NECK.	6"	24"x24"	LAY-IN	1,5,6
T2	SERVING	PRICE MODEL 80FF STEEL FILTER TRANSFER AIR GRILLE WITH REMOVABLE WHITE CORE, FACTORY FLAT BLACK BACKPAN AND ROUND NECK.	VARIES	24"x24"	LAY-IN	1,5,6

NOTES

- NATIONAL ACCOUNT - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004

REMARKS

- STANDARD OFF WHITE FINISH.
- PROVIDE 4-WAY BLOW UNLESS OTHERWISE NOTED. REFER TO M-101(LT) FOR THROW.
- PROVIDE MODEL VCR7 NECK DAMPER ON GRILLES IN RESTROOMS SERVING EXHAUST FAN.
- PROVIDE BACKPAN. MC TO SEAL JOINTS WITH MASTIC AND INSULATE EXTERNALLY.
- PROVIDE SQUARE TO ROUND ADAPTOR.
- FACTORY INSULATED R-6 BACKPAN.
- PROVIDE RELIEF COLLAR ACCESSORY FOR VAV DIFFUSER.
- PROVIDE 2 SLOTS, CENTER NOTCH, AND ONE WAY DISCHARGE.
- PROVIDE ALUMINUM PLASTER FRAME.
- PROVIDE MODEL VCS3 NECK DAMPER.



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 Ocean Springs, MS 39564

**FSR#05796**  
 BUILDING TYPE / SIZE: P14 SE BASE  
 RELEASE: 25.02  
 PRINTED FOR: CONSTRUCTION  
**REVISION SCHEDULE**  
 NO. DATE DESCRIPTION  
 1 07/11/2025 Construction Set

CONSULTANT PROJECT # 25036.CC.S  
 DATE 04/10/2025  
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 SHEET EQUIPMENT SCHEDULES - LENNOX

SHEET NUMBER  
**M-601L**

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 30-SE-05796-M-601L-EQUIPMENT SCHEDULES - LENNOX

General		Ventilation														Exhaust						Served by	
Room #	Room Name	Area Az ft2	People			Area						Actual Outdoor Airflow CFM	Area		Toilet		Actual Exhaust CFM	Supply	Exhaust				
			Occupant Density People/1,000 ft2	Occupants Pz	Outdoor Airflow Rate CFM/Person Rp	Outdoor Airflow CFM Pz x Rp	Outdoor Airflow Rate CFM/R2 Ra	Outdoor Airflow CFM Az x Ra	Breathing Zone Outdoor Airflow CFM Vbz	Zone Air Distribution Effectiveness Ez	Zone Outdoor Airflow CFM Voz		Primary Zone Airflow CFM Vpz	Primary Outdoor Air Fraction Zp	Required Exhaust Rate CFM/R2	Total Required Exhaust CFM				Exhaust Control/Operation	Fixture Exhaust Rate CFM/Fixture	Required Fixture Exhaust CFM	
1	Kitchen	1,067	20	22	7.5	165	0.12	128	293	0.8	367	7,700	0.05	1,658	1	747	-	-	-	3,315	AC-1L/AC-1T	EF-1/EF-2	
2	Kitchen (Dish Washing)	160	15	3	7.5	23	0.18	29	51	0.8	65	425	0.15	92	-	-	-	-	-	-	AC-1L/AC-1T	-	
Total Area		1,227				Total Vbz 344						Total Supply Airflow 8,125	1,750	Actual Outdoor Airflow									
					Diversity (D) 0.80						Maximum Zp 0.15												
					Uncorrected Outdoor Air Intake (You) 313						System Ventilation Efficiency (Ev) 0.90												
					Required Outdoor Air Intake (CFM) 347																		

General		Ventilation														Exhaust						Served by	
Room #	Room Name	Area Az ft2	People			Area						Actual Outdoor Airflow CFM	Area		Toilet		Actual Exhaust CFM	Supply	Exhaust				
			Occupant Density People/1,000 ft2	Occupants Pz	Outdoor Airflow Rate CFM/Person Rp	Outdoor Airflow CFM Pz x Rp	Outdoor Airflow Rate CFM/R2 Ra	Outdoor Airflow CFM Az x Ra	Breathing Zone Outdoor Airflow CFM Vbz	Zone Air Distribution Effectiveness Ez	Zone Outdoor Airflow CFM Voz		Primary Zone Airflow CFM Vpz	Primary Outdoor Air Fraction Zp	Required Exhaust Rate CFM/R2	Total Required Exhaust CFM				Exhaust Control/Operation	Fixture Exhaust Rate CFM/Fixture	Required Fixture Exhaust CFM	
5	Meal Fulfillment Area	428	15	7	7.5	52.5	0.18	77	130	0.8	162	4,375	0.04	975	-	-	-	-	-	-	AC-2L / AC-2T	-	
Total Area		428				Total Vbz 130						Total Supply Airflow 4,375	975	Actual Outdoor Airflow									
					Diversity (D) 1.00						Maximum Zp 0.03												
					Uncorrected Outdoor Air Intake (You) 130						System Ventilation Efficiency (Ev) 1.00												
					Required Outdoor Air Intake (CFM) 129																		

General		Ventilation														Exhaust						Served by	
Room #	Room Name	Area Az ft2	People			Area						Actual Outdoor Airflow CFM	Area		Toilet		Actual Exhaust CFM	Supply	Exhaust				
			Occupant Density People/1,000 ft2	Occupants Pz	Outdoor Airflow Rate CFM/Person Rp	Outdoor Airflow CFM Pz x Rp	Outdoor Airflow Rate CFM/R2 Ra	Outdoor Airflow CFM Az x Ra	Breathing Zone Outdoor Airflow CFM Vbz	Zone Air Distribution Effectiveness Ez	Zone Outdoor Airflow CFM Voz		Primary Zone Airflow CFM Vpz	Primary Outdoor Air Fraction Zp	Required Exhaust Rate CFM/R2	Total Required Exhaust CFM				Exhaust Control/Operation	Fixture Exhaust Rate CFM/Fixture	Required Fixture Exhaust CFM	
1	Dining	1,061	100	106	7.5	795	0.18	191	986	0.8	1,233	4,025	0.31	978	-	-	-	-	-	-	AC-3L / AC-3T	-	
2	Serving	535	15	8	7.5	60	0.12	64	124	0.8	155	975	0.16	237	-	-	-	-	-	-	AC-3L / AC-3T	-	
3	Men's RR	154	-	-	-	-	-	-	-	0.8	-	100	-	24	-	-	Continuous	50	150	180	AC-3L / AC-3T	EF-3	
4	Women's RR	169	-	-	-	-	-	-	-	0.8	-	100	-	24	-	-	Continuous	50	150	180	AC-3L / AC-3T	EF-3	
5	RR Vestibule	68	-	-	-	-	0.06	4	4	0.8	6	50	0.10	12	-	-	-	-	-	-	AC-3L / AC-3T	-	
Total Area		1,987				Total Vbz 1,114						Total Supply Airflow 5,250	1,275	Actual Outdoor Airflow									
					Diversity (D) 0.83						Maximum Zp 0.31												
					Uncorrected Outdoor Air Intake (You) 969						System Ventilation Efficiency (Ev) 0.80												
					Required Outdoor Air Intake (CFM) 1,211																		

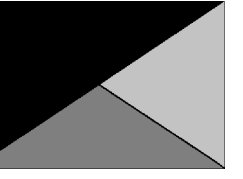
General		Ventilation														Exhaust						Served by	
Room #	Room Name	Area Az ft2	People			Area						Actual Outdoor Airflow CFM	Area		Toilet		Actual Exhaust CFM	Supply	Exhaust				
			Occupant Density People/1,000 ft2	Occupants Pz	Outdoor Airflow Rate CFM/Person Rp	Outdoor Airflow CFM Pz x Rp	Outdoor Airflow Rate CFM/R2 Ra	Outdoor Airflow CFM Az x Ra	Breathing Zone Outdoor Airflow CFM Vbz	Zone Air Distribution Effectiveness Ez	Zone Outdoor Airflow CFM Voz		Primary Zone Airflow CFM Vpz	Primary Outdoor Air Fraction Zp	Required Exhaust Rate CFM/R2	Total Required Exhaust CFM				Exhaust Control/Operation	Fixture Exhaust Rate CFM/Fixture	Required Fixture Exhaust CFM	
1	Flex	57	-	-	-	-	0.12	7	7	0.8	9	100	0.09	17	-	-	-	-	-	-	AC-4L / AC-4T	-	
2	Beverage Corridor	108	-	-	-	-	0.06	6	6	0.8	9	435	0.02	74	-	-	-	-	-	-	AC-4L / AC-4T	-	
3	Team Member Room	94	50	5	5	25	0.06	6	31	0.8	39	240	0.16	41	-	-	-	-	-	-	AC-4L / AC-4T	-	
4	Office	37	5	1	5	5	0.06	3	8	0.8	10	310	0.03	52	-	-	-	-	-	-	AC-4L / AC-4T	-	
5	Utility Room	109	-	-	-	-	0.12	13	13	0.8	17	390	0.04	66	-	-	-	-	-	-	AC-4L / AC-4T	-	
Total Area		405				Total Vbz 65						Total Supply Airflow 1,475	250	Actual Outdoor Airflow									
					Diversity (D) 1.00						Maximum Zp 0.16												
					Uncorrected Outdoor Air Intake (You) 65						System Ventilation Efficiency (Ev) 1.00												
					Required Outdoor Air Intake (CFM) 64																		

General		Ventilation														Exhaust						Served by	
Room #	Room Name	Area Az ft2	People			Area						Actual Outdoor Airflow CFM	Area		Toilet		Actual Exhaust CFM	Supply	Exhaust				
			Occupant Density People/1,000 ft2	Occupants Pz	Outdoor Airflow Rate CFM/Person Rp	Outdoor Airflow CFM Pz x Rp	Outdoor Airflow Rate CFM/R2 Ra	Outdoor Airflow CFM Az x Ra	Breathing Zone Outdoor Airflow CFM Vbz	Zone Air Distribution Effectiveness Ez	Zone Outdoor Airflow CFM Voz		Primary Zone Airflow CFM Vpz	Primary Outdoor Air Fraction Zp	Required Exhaust Rate CFM/R2	Total Required Exhaust CFM				Exhaust Control/Operation	Fixture Exhaust Rate CFM/Fixture	Required Fixture Exhaust CFM	
1	Play Area	257	7	2	20	40	0.18	46	86	0.8	108	1,300	0.08	150	-	-	-	-	-	-	AC-5L / AC-5T	-	
Total Area		257				Total Vbz 86						Total Supply Airflow 1,300	150	Actual Outdoor Airflow									
					Diversity (D) 1.00						Maximum Zp 0.08												
					Uncorrected Outdoor Air Intake (You) 86						System Ventilation Efficiency (Ev) 1.00												
					Required Outdoor Air Intake (CFM) 86																		



**Chick-fil-A**

**Chick-fil-A**  
5200 Buffington Road  
Atlanta, Georgia  
30349-2998



**Kurzynske & Associates**  
2705 Lebanon Pike - Suite One  
Nashville, Tennessee 37214  
Telephone: (615) 255-5203



**CHICK-FIL-A**  
Ocean Springs FSU

3419 Bienville Blvd  
Ocean Springs, MS 39564

**FSR#05796**

BUILDING TYPE / SIZE: P14 SE BASE  
RELEASE: 25.02  
PRINTED FOR:  
CONSTRUCTION

REVISION SCHEDULE  
NO. DATE DESCRIPTION

CONSULTANT PROJECT # 25036.CC.S  
DATE 04/10/2025  
DRAWN BY BLM

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SHEET  
VENTILATION SCHEDULES

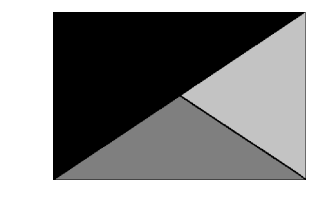
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**M-602**

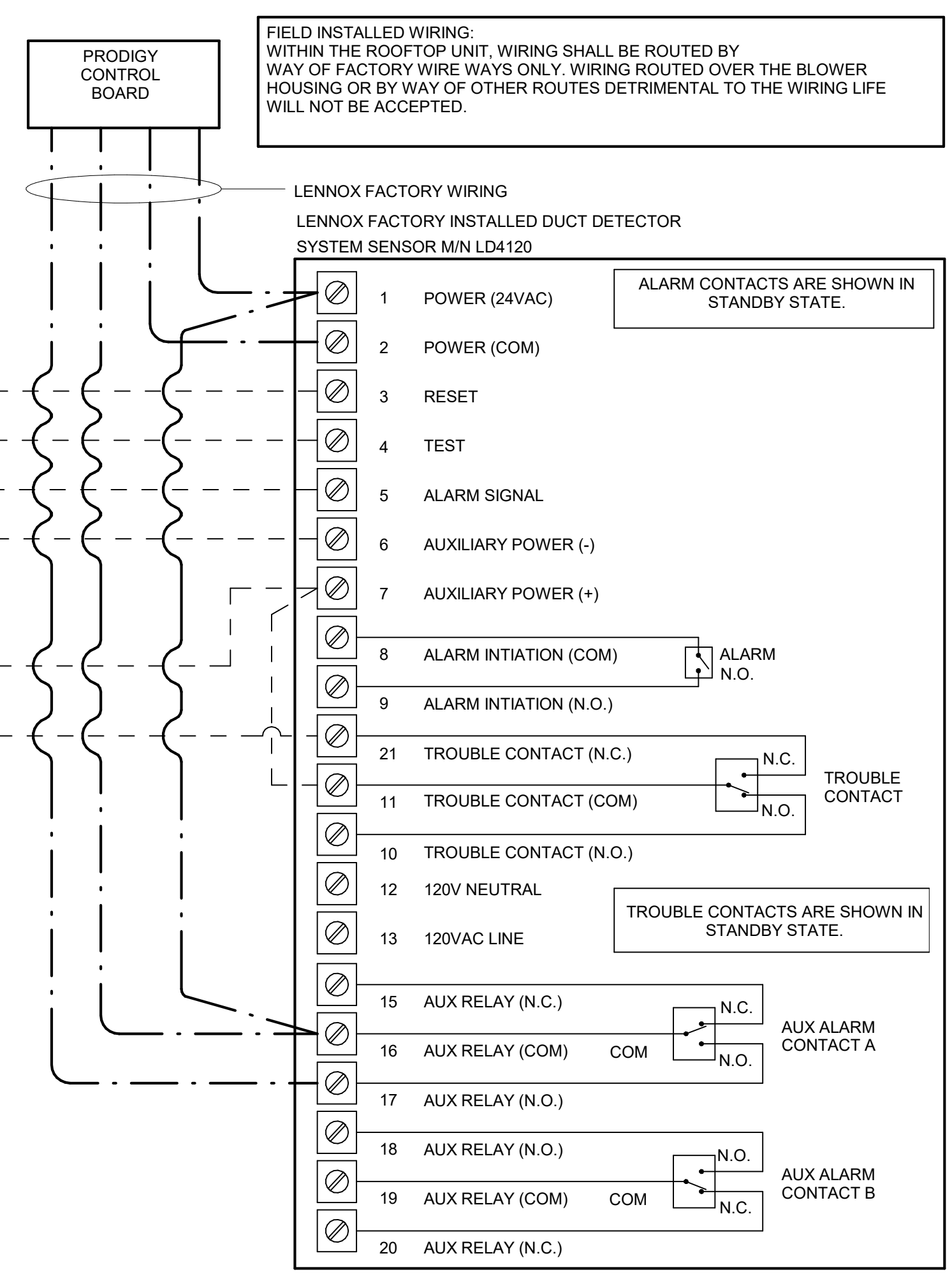
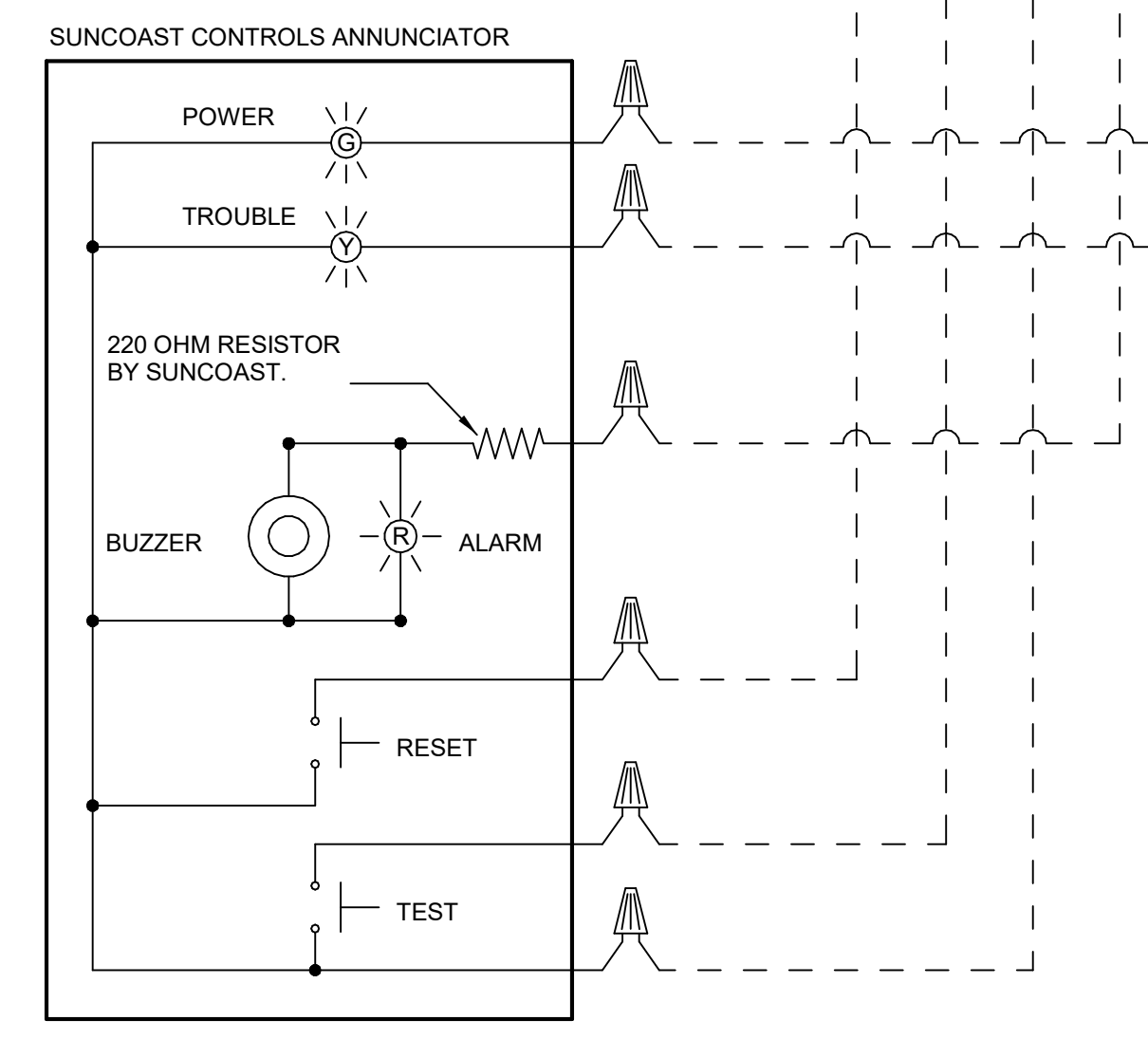
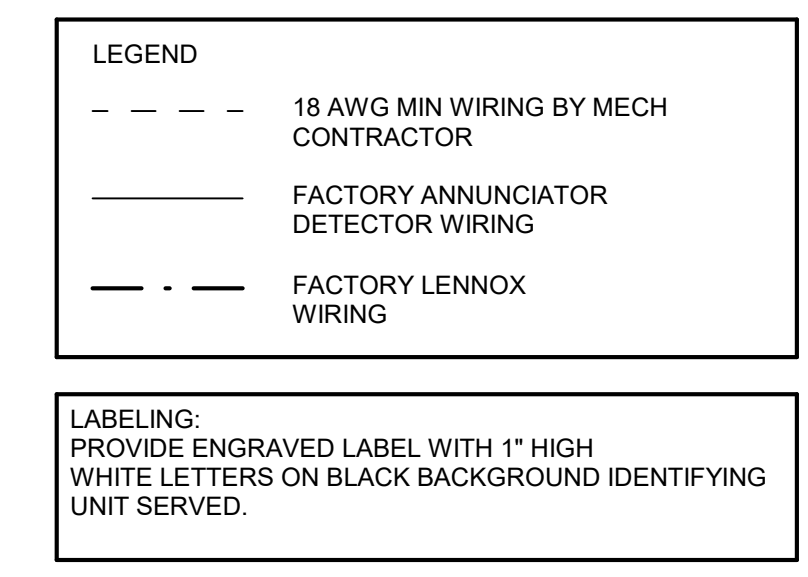


Chick-Fil-A

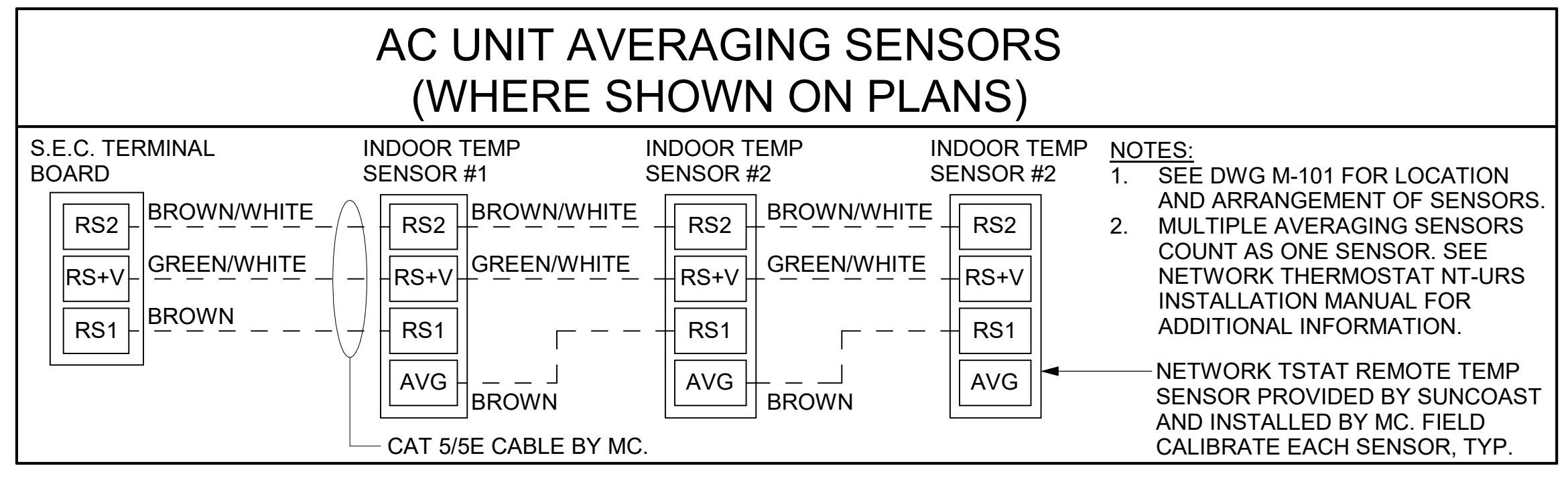
Chick-fil-A  
5200 Buffington Road  
Atlanta, Georgia  
30349-2998



Kurzynske  
& Associates  
2705 Lebanon Pike - Suite One  
Nashville, Tennessee 37214  
Telephone: (615) 255-5203



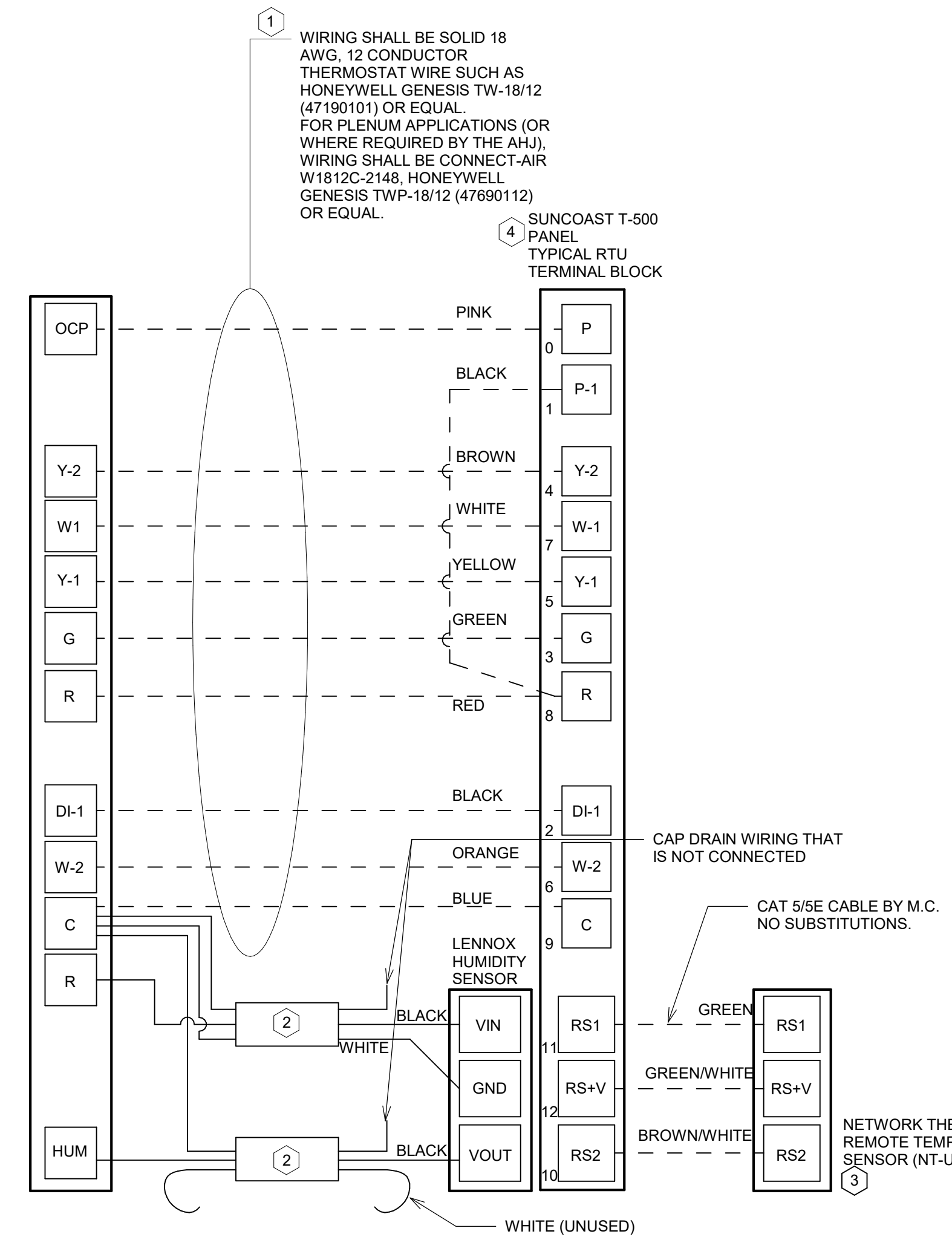
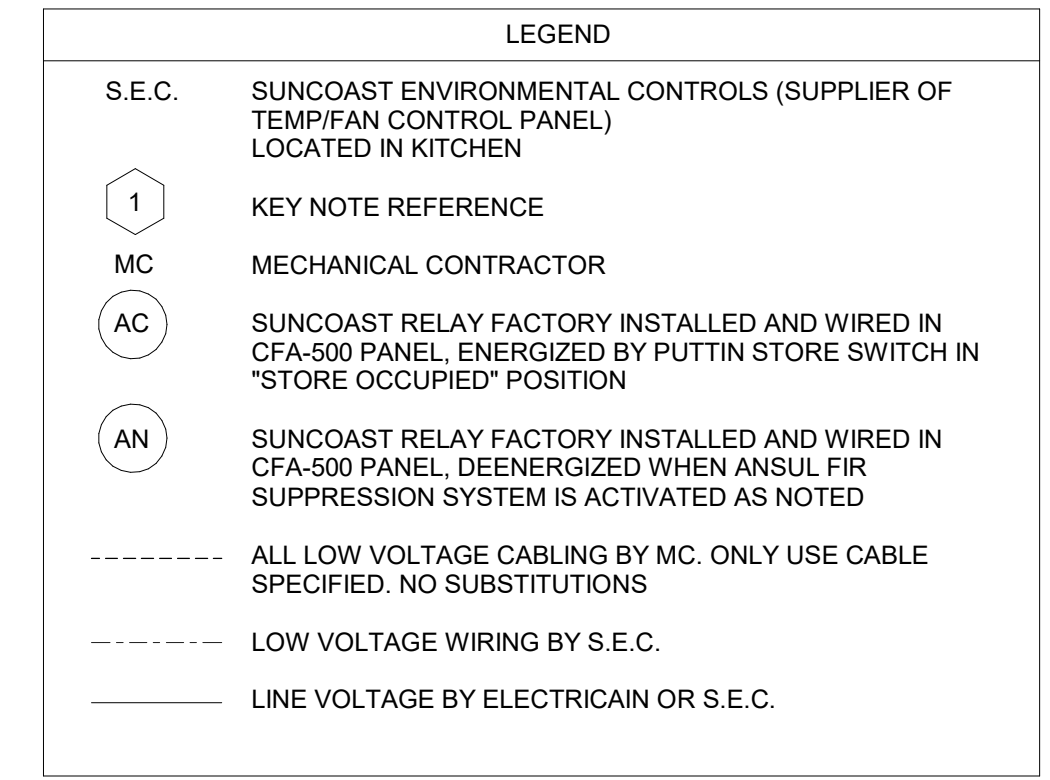
2 SMOKE DETECTOR AND ANNUNCIATOR WIRING - LENNOX  
NTS



3 NETWORK THERMOSTAT AVERAGING SENSORS  
NOT TO SCALE

- KEYED NOTES:
1. LOW VOLTAGE WIRING TO RTU TO BE ROUTED TO UNIT THRU FACTORY WIREWAY.
  2. WIRING TO HUMIDITY SENSOR TO BE MADE WITH SINGLE 18/2 SENSOR CABLE: BELDEN 8760 OR EQUAL. HUMIDITROL INTERFACE TO SET RELATIVE HUMIDITY SET TO 60%.
  3. NETWORK TSTAT REMOTE TEMP SENSOR PROVIDED BY SUNCOAST AND INSTALLED BY MC. SENSOR IS INTENDED TO BE SURFACE MOUNTED AND DOES NOT REQUIRE A SINGLE GANG BOX OR CONDUIT. FIELD CALIBRATE EACH SENSOR. SEAL CABLE PENETRATION AT ALL WALL LOCATIONS.
  4. FACTORY WIRING IN SUNCOAST T-500 PANEL, NOT SHOWN FOR CLARITY. SEE SUNCOAST WIRING DIAGRAM FOR ADDITIONAL INFORMATION.

- NOTES:
1. PROVIDE A PROFESSIONALLY LAMINATED COPY OF THESE DETAILS TO BE INSTALLED INSIDE THE ROOFTOP UNIT CONTROL CABINET. USE A SETON CHART FRAME STYLE #6824, TELEPHONE NUMBER 800-243-8624, FOR MOUNTING THE DETAIL. ATTACH THE FRAME TO THE INTERIOR OF THE UNIT IN PLAIN AND EASY VIEW OF THE CONTROLS SECTION. CONTACT ENGINEER OF RECORD FOR A REPRODUCIBLE COPY OF THE DETAIL.
  2. SEE DETAILS ON THIS SHEET FOR SMOKE DETECTOR AND ANNUNCIATOR WIRING.
  3. SET ALL THERMOSTATS TO AUTO CHANGEOVER.
  4. PROVIDE PLASTIC ENGRAVABLE AT ALL SENSORS WITH 1/4" HIGH WHITE LETTERING ON BLACK BACKGROUND (E.G., "AC#2 HUMIDITY SENSOR" OR "AC#2 TEMP SENSOR"). PLACE LABELS ON WALL DIRECTLY ABOVE OR BELOW THE SENSOR. DO NOT APPLY LABEL DIRECTLY TO DEVICE.



1 ROOFTOP UNIT CONTROL WIRING - LENNOX  
NTS

- LENNOX PRODIGY 2.0 OR CORE UNIT CONTROLLER SETTINGS:
1. FOR ALL RTUs, ELIMINATE THE MORNING WARMUP/OSA DAMPER DELAY. THE MENU PATH IS:
    - MAIN MENU > SETTINGS > RTU OPTIONS > EDIT PARAMETERS
    - FOR GAS HEAT UNITS (LGT):
      - CHANGE PARAMETER #65 SETTING TO 1
    - FOR ELECTRIC HEAT UNITS (LCT):
      - CHANGE PARAMETER #58 TO 1
  2. FOR HUMIDITROL UNITS THE MENU PATH IS:
    - MAIN MENU > SETTINGS > RTU OPTIONS > DEHUMIDIFIER MODE > NO CONDITIONS
    - SELECT LOCAL SENSOR AND SAVE
      - SET POINT (#108): 60%
      - DEHUMID DEADBAND (#107): 3%
  3. FOR ALL UNITS, SET BLOWER TO OPERATE AT ONE AIRFLOW FOR ALL MODES. MENU PATH IS:
    - MAIN MENU > INSTALL > TEST AND BALANCE > BLOWER
      - SET ALL HEATING AND COOLING CFM VALUES TO THE SAME VALUE AS SCHEDULED.
      - ADJUST AIRFLOW BY MEANS OF ADJUSTABLE BLOWER MOTOR SHAVE.

- LENNOX FRESH AIR TEMPERING SETUP (IF SPECIFIED):
1. INSTALL FRESH AIR TEMPERING KIT WIRING HARNESS AS RECOMMENDED BY LENNOX.
  2. LOCATE SUPPLY AIR TEMPERATURE SENSOR IN SUPPLY DUCT DOWNSTREAM OF FIRST ELBOW. SECURE WIRING TO DUCT OR STRUCTURE WITH RUBBER COATED CLAMPS. DO NOT RUN WIRING INSIDE DUCT WORK. PROTECT ALL WIRING PENETRATIONS WITH RUBBER GROMMETS.
  3. FOR PRODIGY 2.0 OR CORE UNIT CONTROLLER WITHIN MAIN MENU GO TO SET-UP TO TEST AND BALANCE TO DAMPER. FOLLOW MENU PATH SET FRESH AIR HEATING ENABLE TO "YES"
    - A. SET FAH SETPOINT TO 65F FOR AC#1
    - B. SET FAH SETPOINT TO 62F FOR AC#2
    - C. SET FAH SETPOINT TO 63F FOR AC#3, AC#4, AND AC#5
  4. CHANGE PRODIGY 2.0 OR CORE UNIT CONTROLLER PARAMETER #157. WITHIN MAIN MENU GO TO SETTINGS TO RTU OPTIONS TO EDIT PARAMETER VALUE TO 5 FOR A 5 DEG DEADBAND AND SAVE.
  5. CHANGE PRODIGY 2.0 OR CORE UNIT CONTROLLER PARAMETER #158 WITHIN MAIN MENU GO TO SETTINGS TO RTU OPTIONS TO EDIT PARAMETER ADJUST VALUE TO 300 SECONDS FOR 5 MINUTE CYCLE TIME AND SAVE.

CHICK-FIL-A  
Ocean Springs FSU  
3419 Bienville Blvd  
Ocean Springs, MS 39564

FSR#05796  
BUILDING TYPE / SIZE: P14 SE BASE  
RELEASE: 25.02

PRINTED FOR CONSTRUCTION

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 25036.CC.S  
DATE 04/10/2025  
DRAWN BY BLM

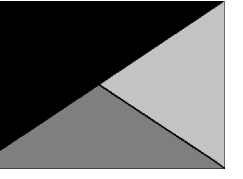
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SHEET CONTROL WIRING DIAGRAMS - LENNOX

SHEET NUMBER M-701L



**Chick-fil-A**  
5200 Buffington Road  
Atlanta, Georgia  
30349-2998



**Kurzynske & Associates**  
2705 Lebanon Pike - Suite One  
Nashville, Tennessee 37214  
Telephone: (615) 255-5203



07/11/25

**CHICK-FIL-A**  
Ocean Springs FSU  
3419 Bienville Blvd  
Ocean Springs, MS 39564

**FSR#05796**

BUILDING TYPE / SIZE: P14 SE BASE

RELEASE: 25.02

PRINTED FOR:

CONSTRUCTION

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NO. DATE DESCRIPTION

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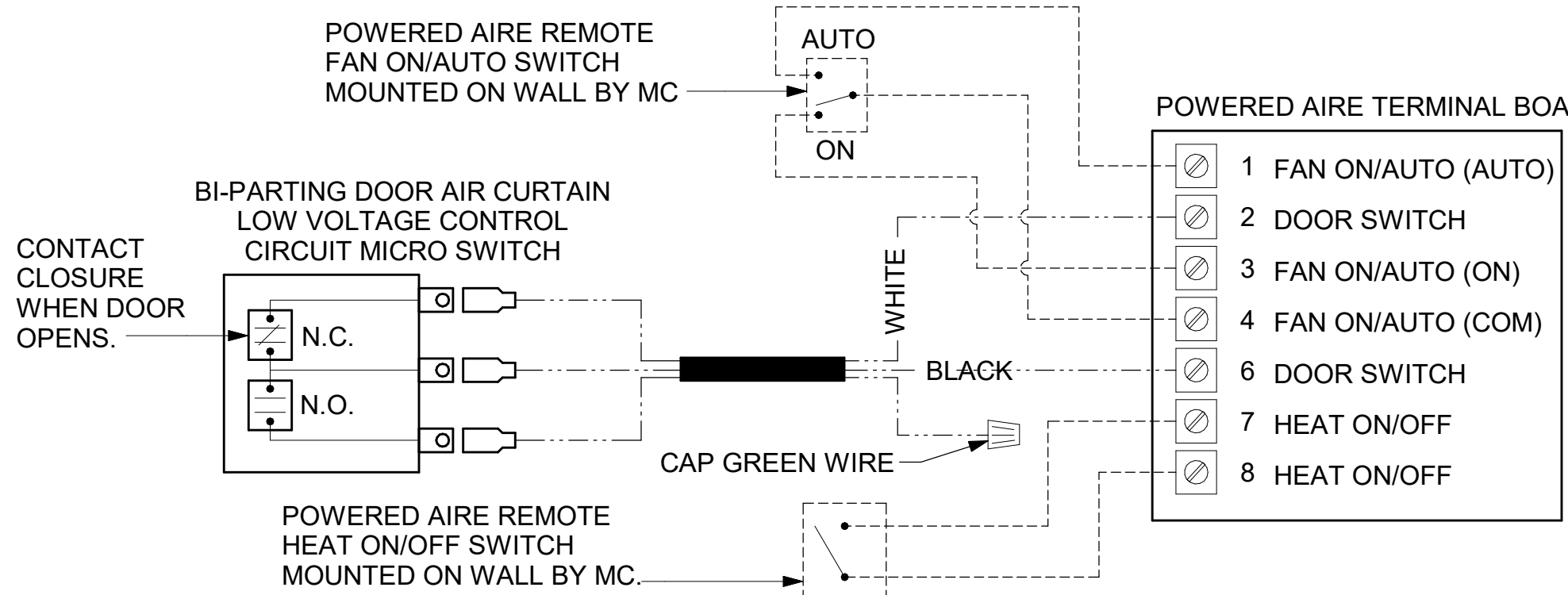
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NO. DATE DESCRIPTION

AD#2 IS NOT PROVIDED WITH A BI-PARTING DOOR SWITCH. AD#2 IS PROVIDED WITH A FACTORY DOOR MICROSWITCH. WIRE AD#2 TO FACTORY MICROSWITCH PER MFR'S INSTALLATION INSTRUCTIONS.

**LEGEND**  
- - - 18 AWG MIN LOW VOLTAGE WIRING BY MC, U.N.O.  
- - - 22 AWG LOW VOLTAGE WIRING PROVIDED BY TORMAX. WIRING INSTALLED BY MC.



**2 AIR CURTAIN WIRING DIAGRAM**  
NTS

**LEGEND**

S.E.C. SUNCOAST ENVIRONMENTAL CONTROLS  
CFA-500 ENERGY MGT PANEL

H.E.S. SUNCOAST ENVIRONMENTAL CONTROLS  
HOOD EXHAUST SAFETY CONTROLLER

M.C. MECHANICAL CONTRACTOR

- - - 18 AWG MIN UNSHIELDED LOW VOLTAGE WIRING BY MC, U.N.O.

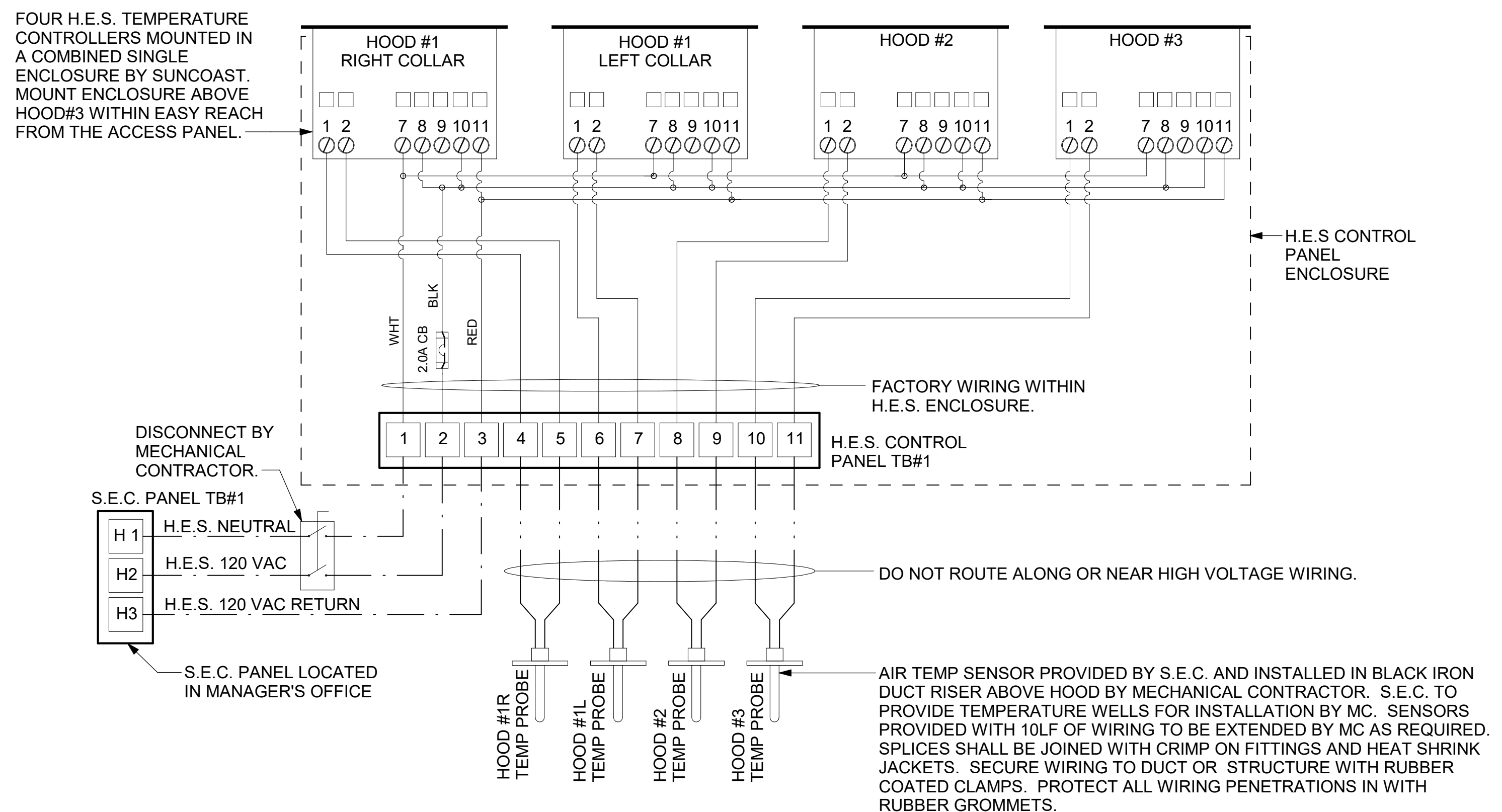
- - - 120 VAC WIRING BY MECHANICAL CONTRACTOR

**GENERAL NOTES**

- MECHANICAL CONTRACTOR TO PURCHASE THE H.E.S. CONTROL PANEL AND COMPONENTS FROM SUNCOAST ENVIRONMENTAL CONTROLS. TELEPHONE 877-544-8679.
- CONTROLS COMPONENTS TO BE FACTORY MOUNTED IN LABELED NEMA-1 ENCLOSURES.
- MECHANICAL CONTRACTOR TO PROVIDE A PROFESSIONALLY LAMINATED COPY OF THIS DETAIL ATTACHED TO THE ENCLOSURE CONTACT ENGINEER OF RECORD FOR A REPRODUCIBLE COPY OF THE DETAIL.

**S.E.C. H.E.S. OPERATION**

IN THE EVENT THAT ANY COOKING EQUIPMENT ITEM BENEATH ANY HOOD IS STARTED WITHOUT THE 'STORE SWITCH' BEING IN THE 'OCCUPIED' POSITION, THE H.E.S. CONTROLLER WILL SENSE THE HEAT RISE WITHIN THE HOOD CANOPY AND ENERGIZE THE EXHAUST FANS.



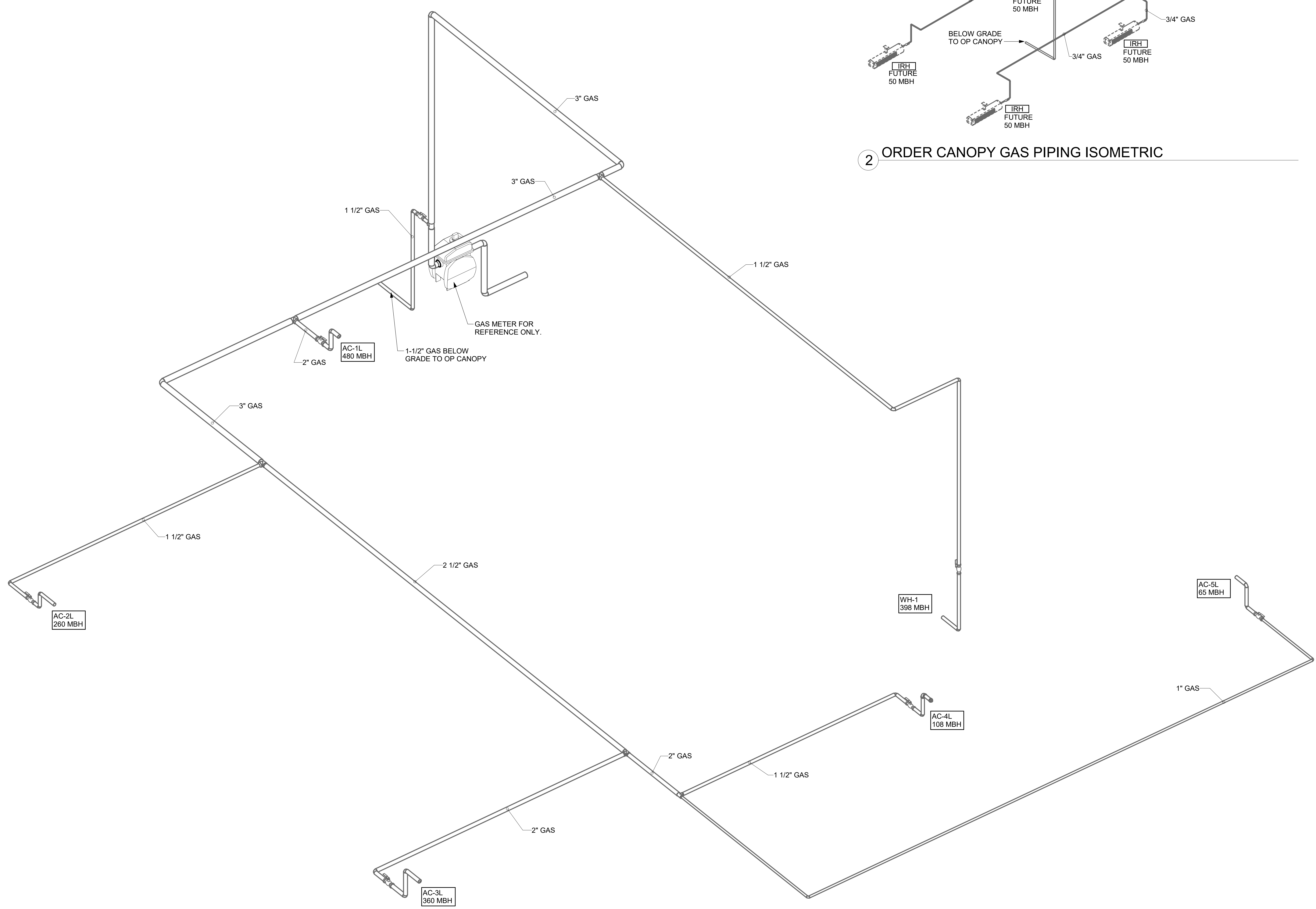
**1 HOOD EXHAUST SAFETY SYSTEM WIRING**  
NTS

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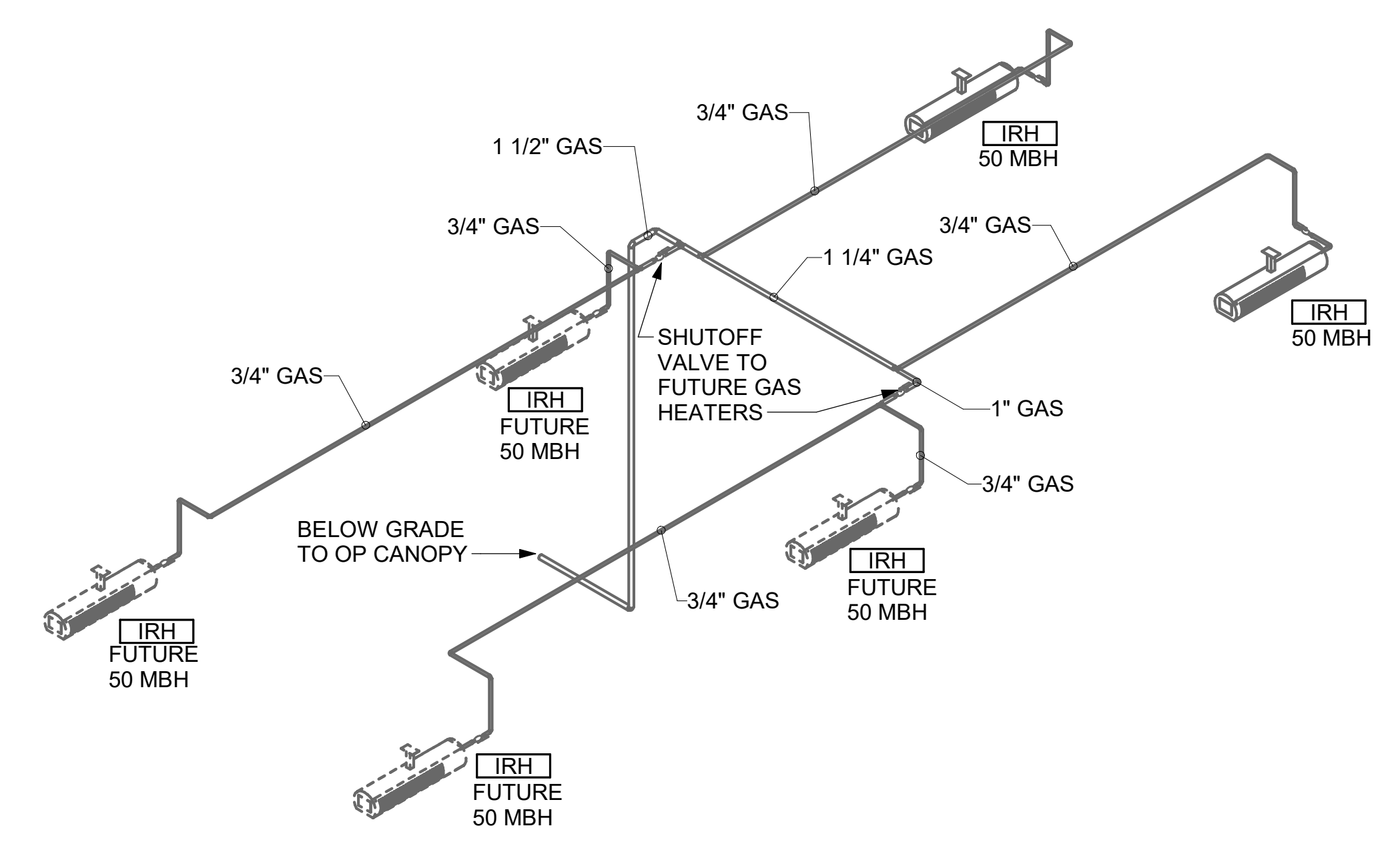
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DATE 04/10/2025  
DRAWN BY BLM  
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SHEET CONTROL WIRING DIAGRAMS  
SHEET NUMBER  
**M-702L**

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30-SE-05796-M-901L-GAS ISOMETRIC - LENNOX

**1 GAS ISOMETRIC - LENNOX**



**2 ORDER CANOPY GAS PIPING ISOMETRIC**



**Chick-fil-A**  
**Chick-fil-A**  
 5200 Buffington Road  
 Atlanta, Georgia  
 30349-2998

**Kurzynske & Associates**  
 2705 Lebanon Pike - Suite One  
 Nashville, Tennessee 37214  
 Telephone: (615) 255-5203



**CHICK-FIL-A**  
**Ocean Springs FSU**  
 3419 Bienville Blvd  
 Ocean Springs, MS 39564

**FSR#05796**  
 BUILDING TYPE / SIZE: P14 SE BASE  
 RELEASE: 25.02  
 PRINTED FOR:  
 CONSTRUCTION

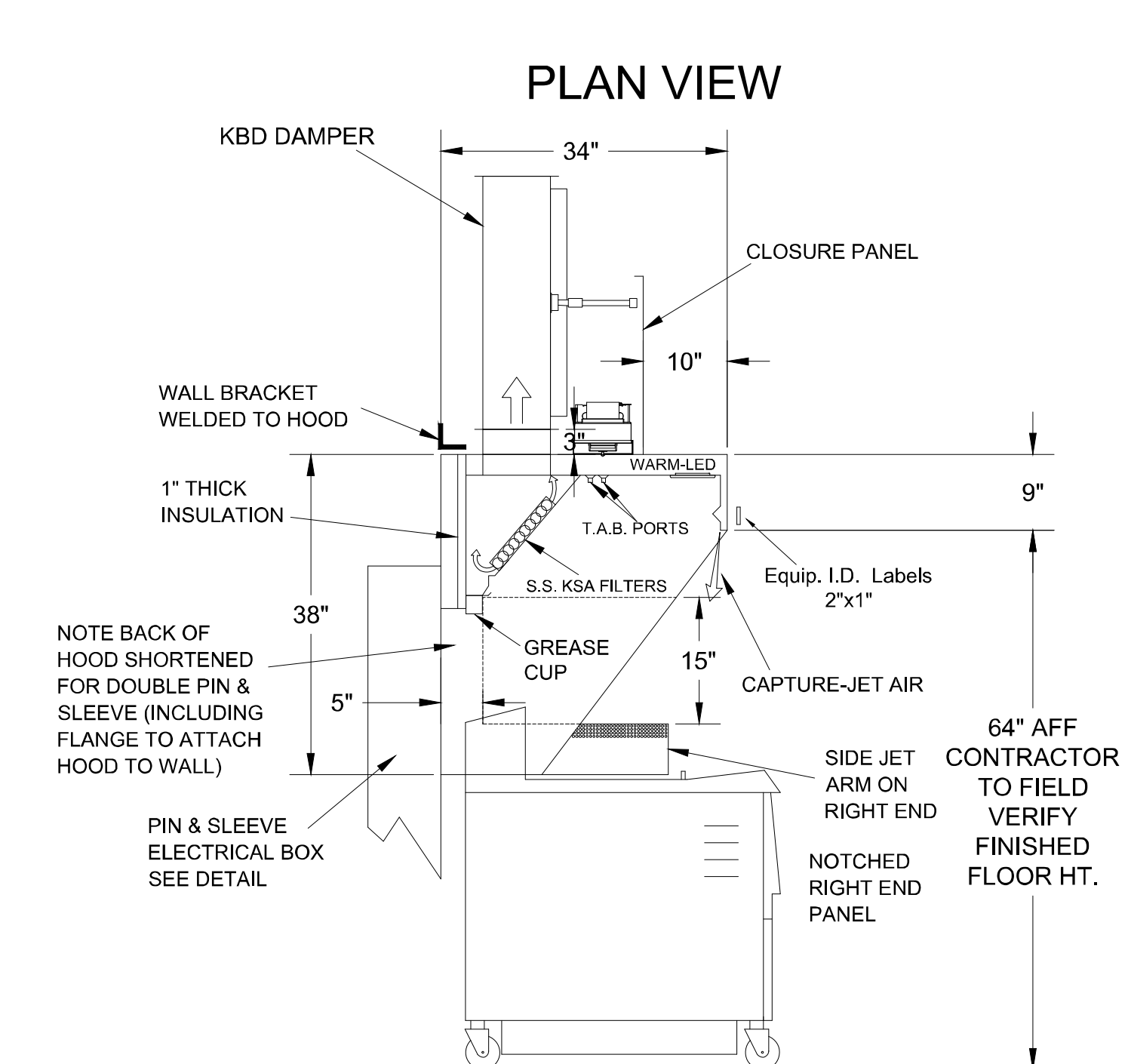
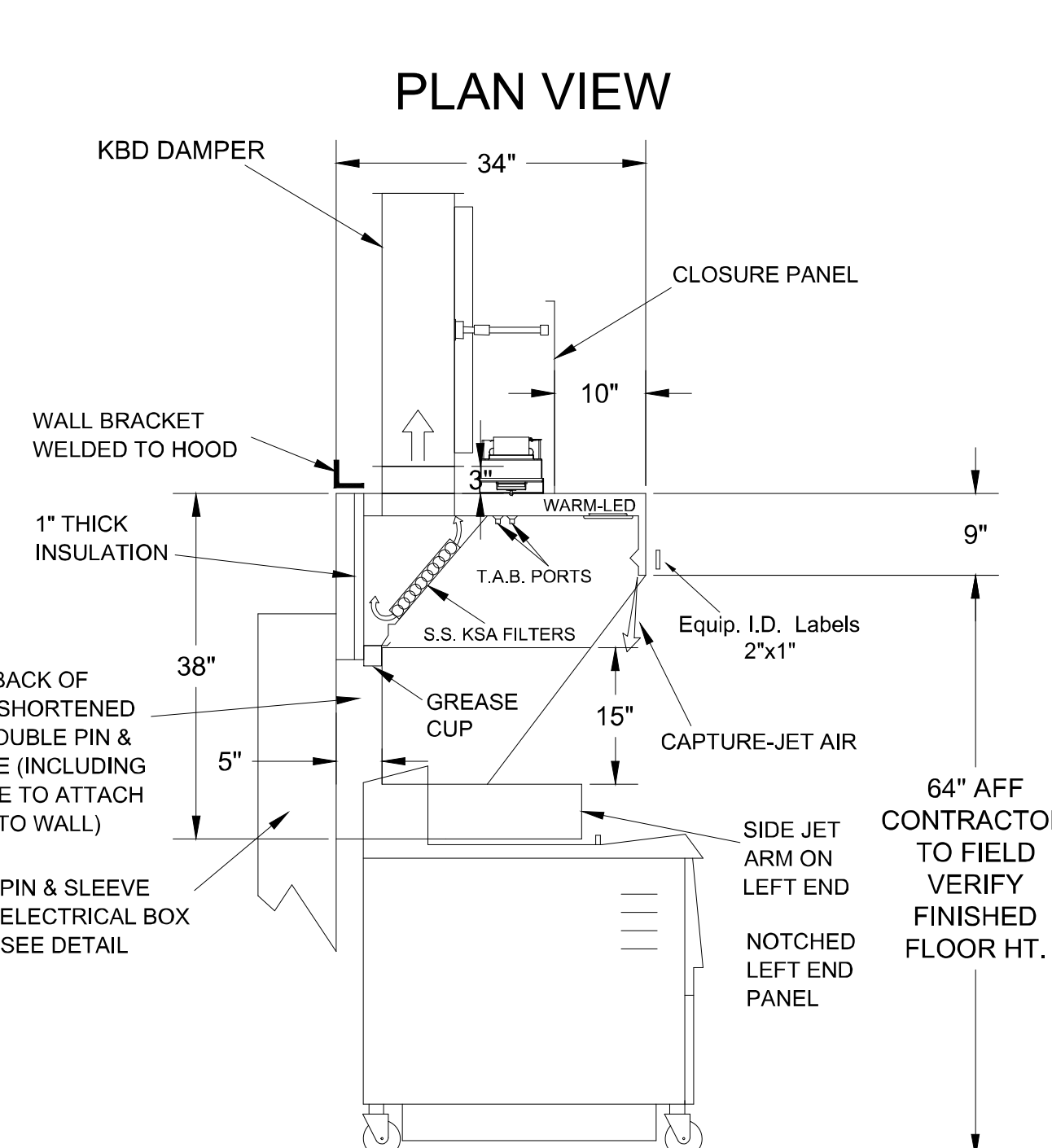
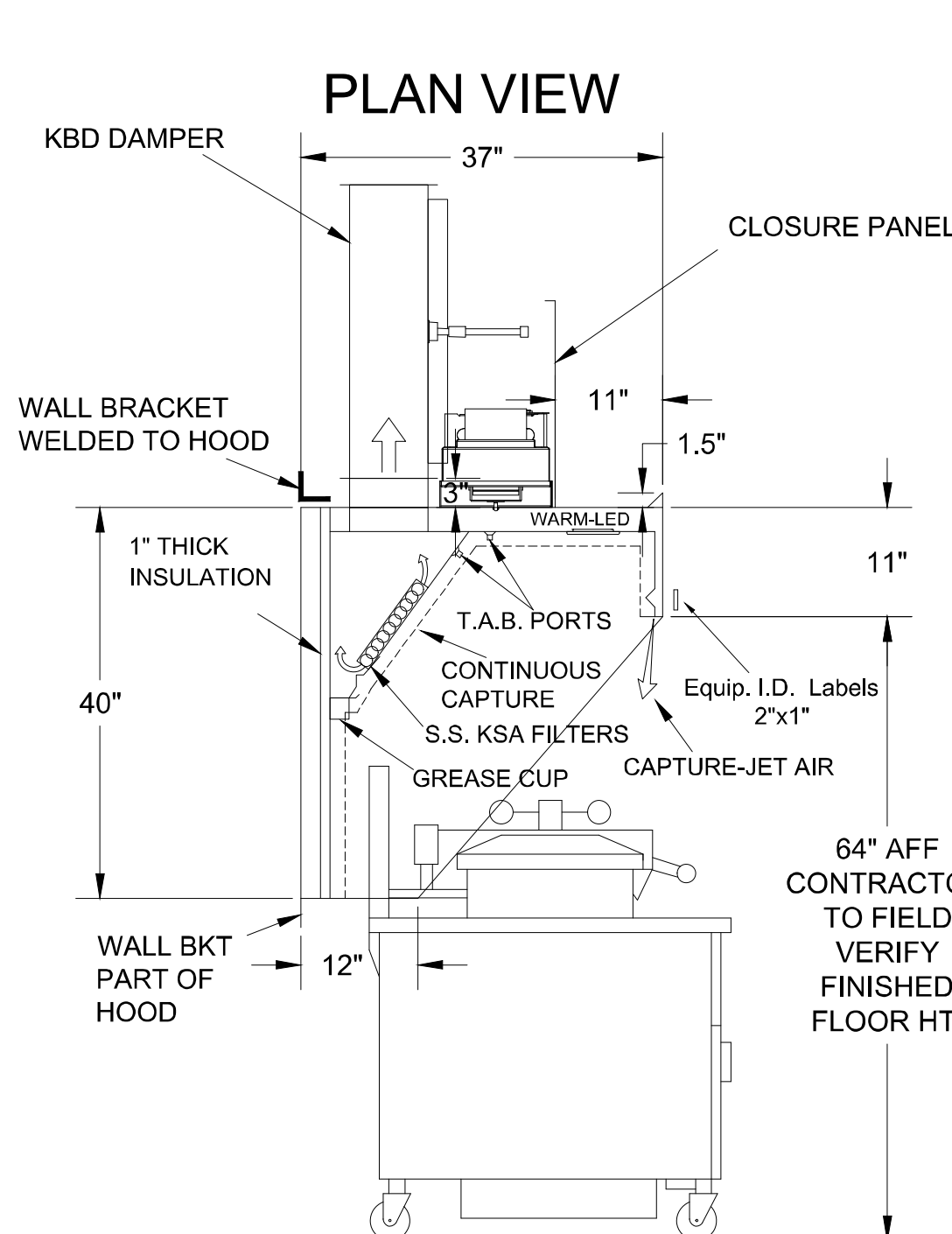
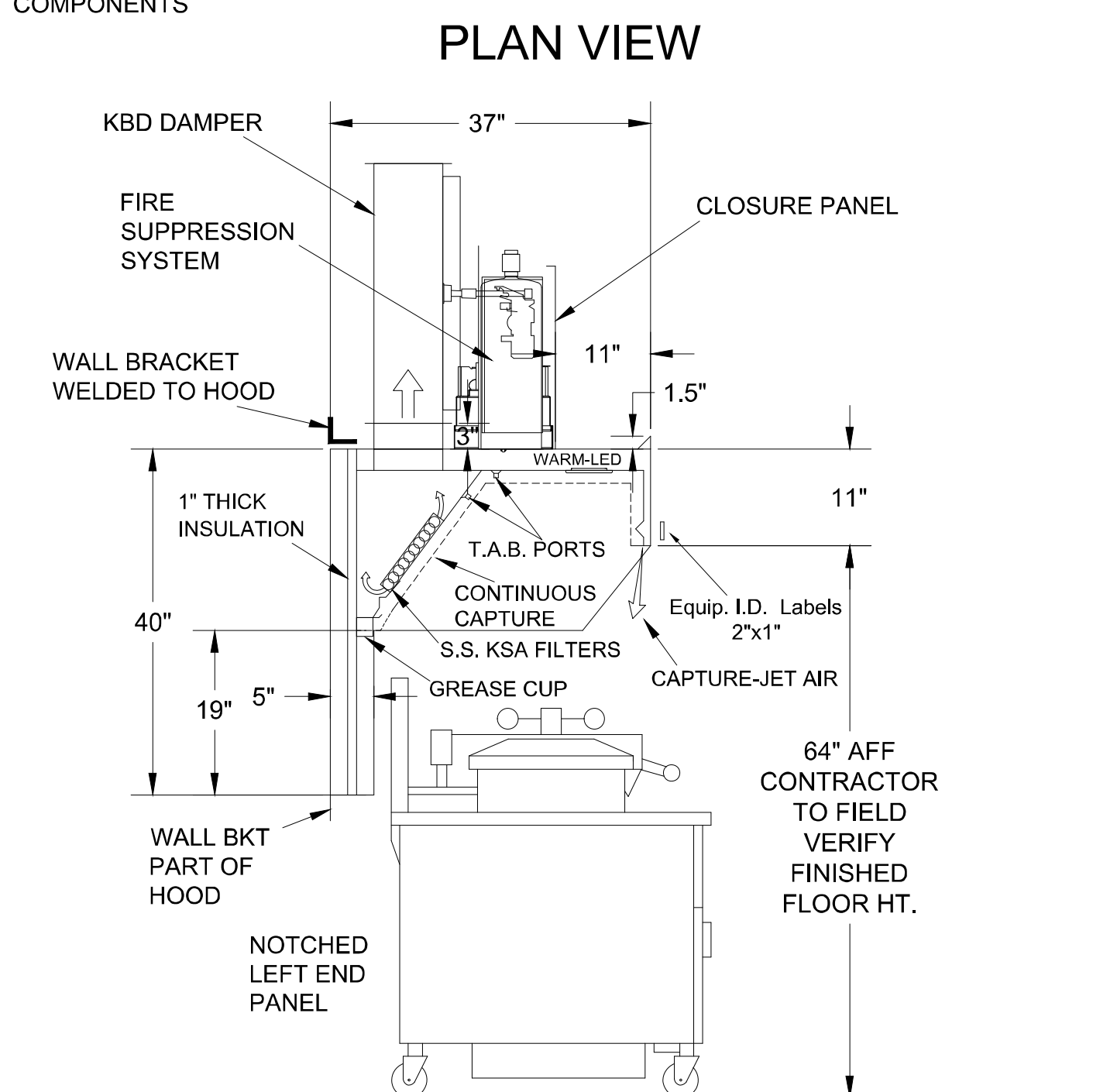
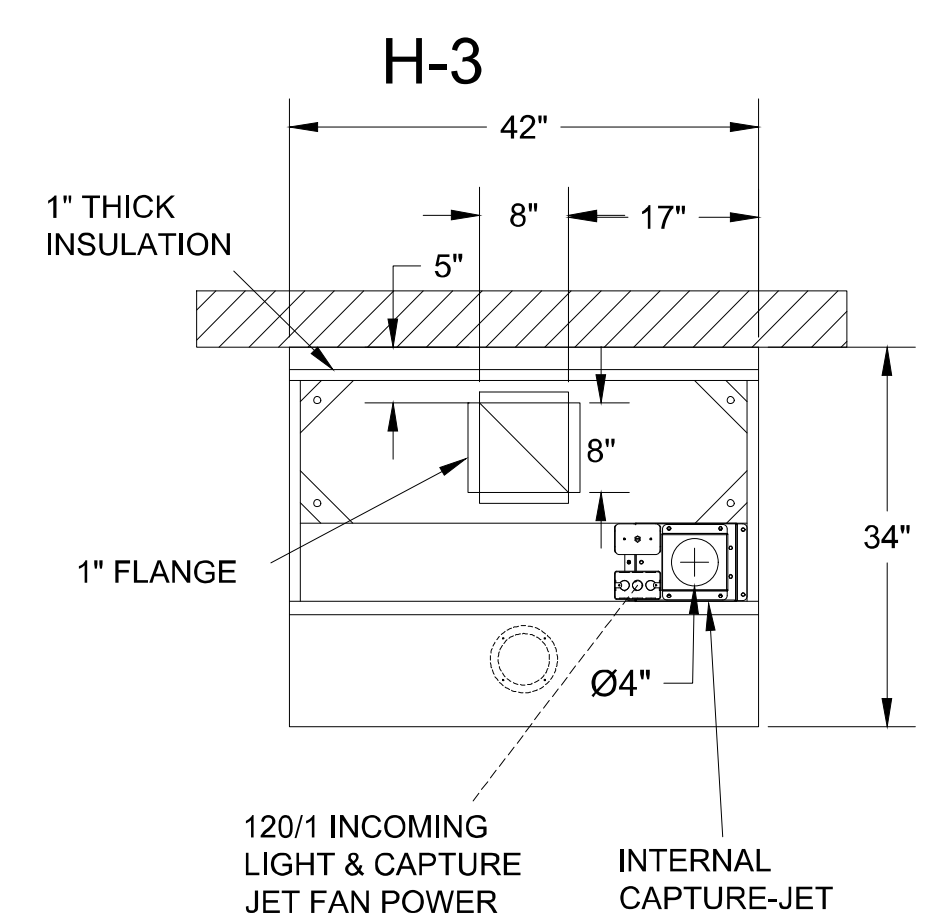
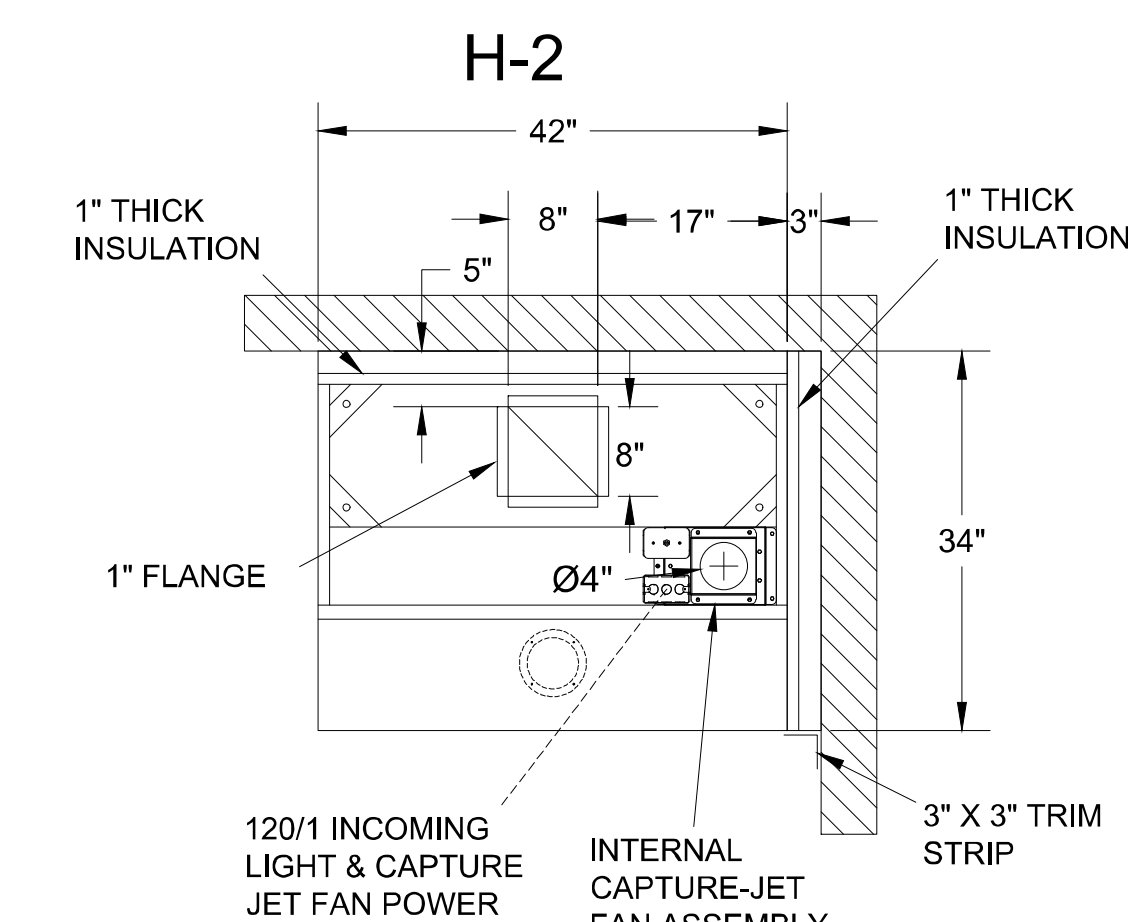
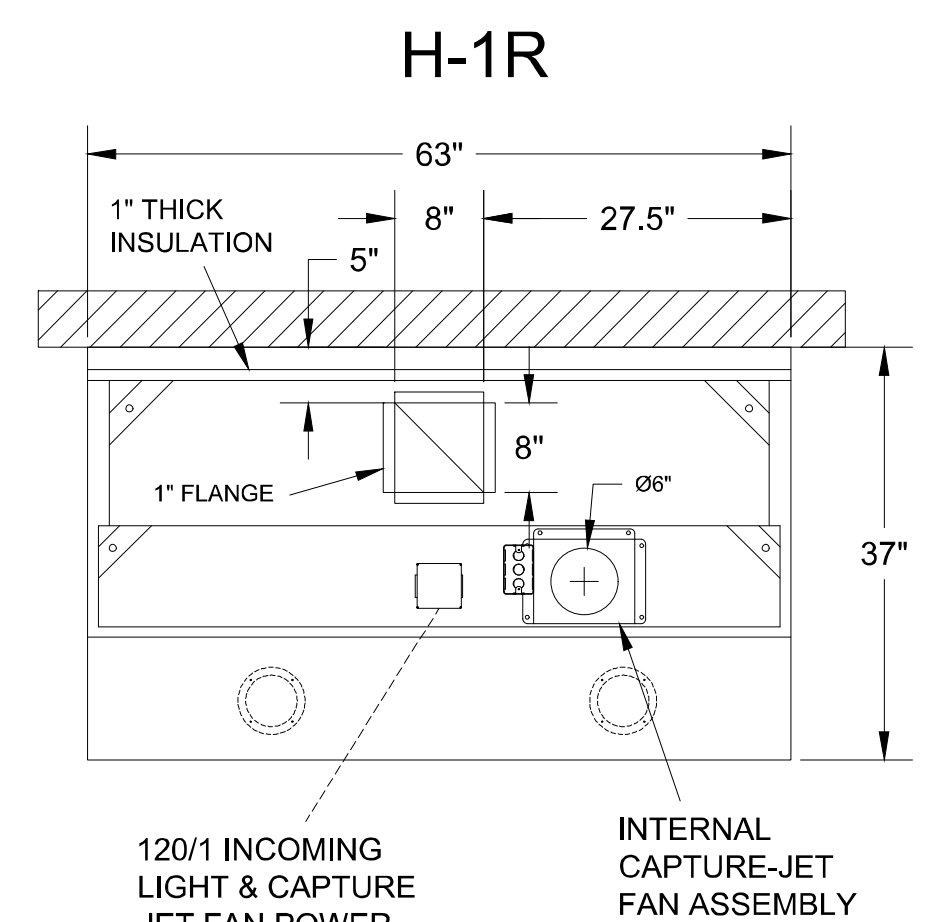
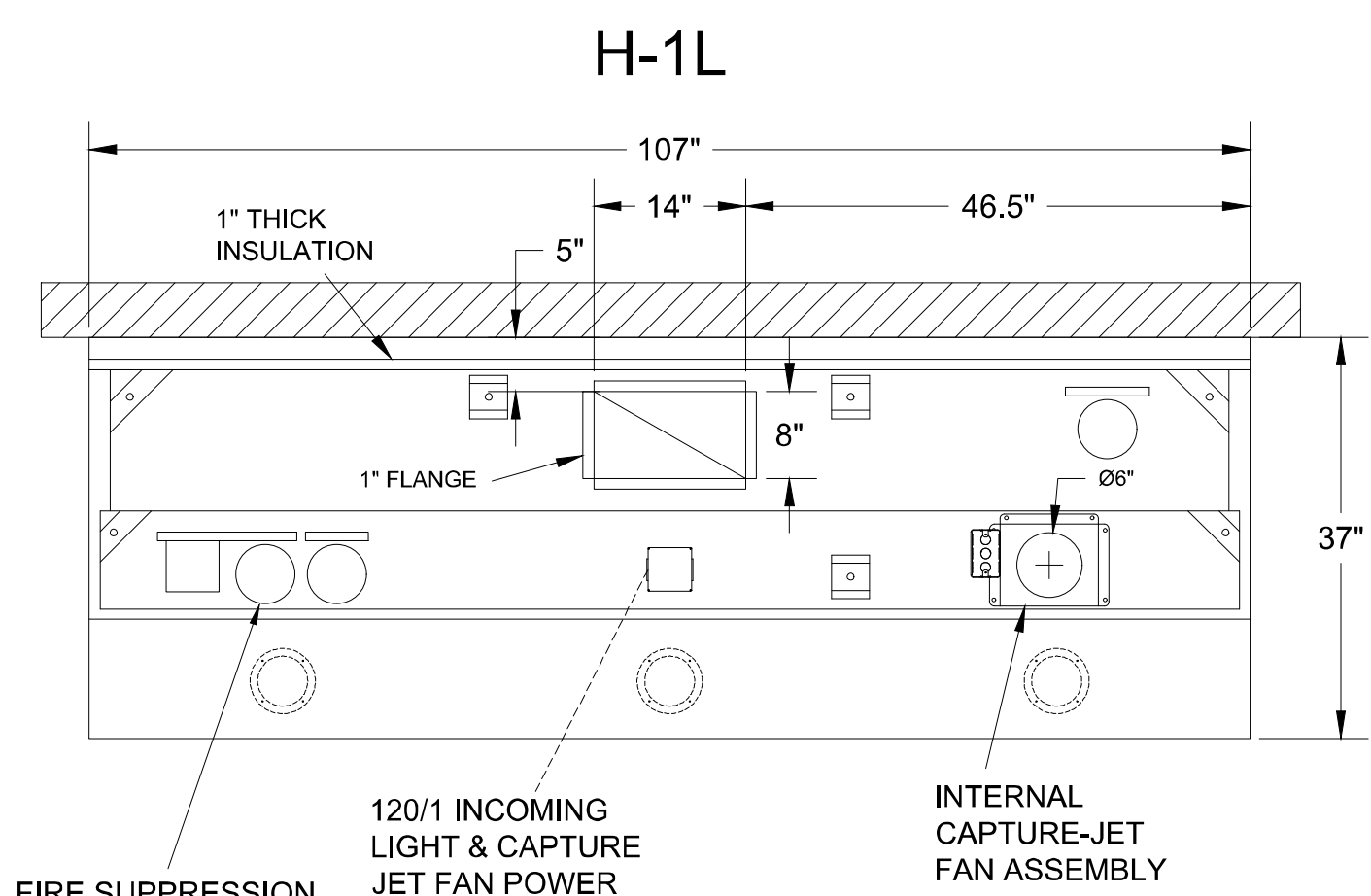
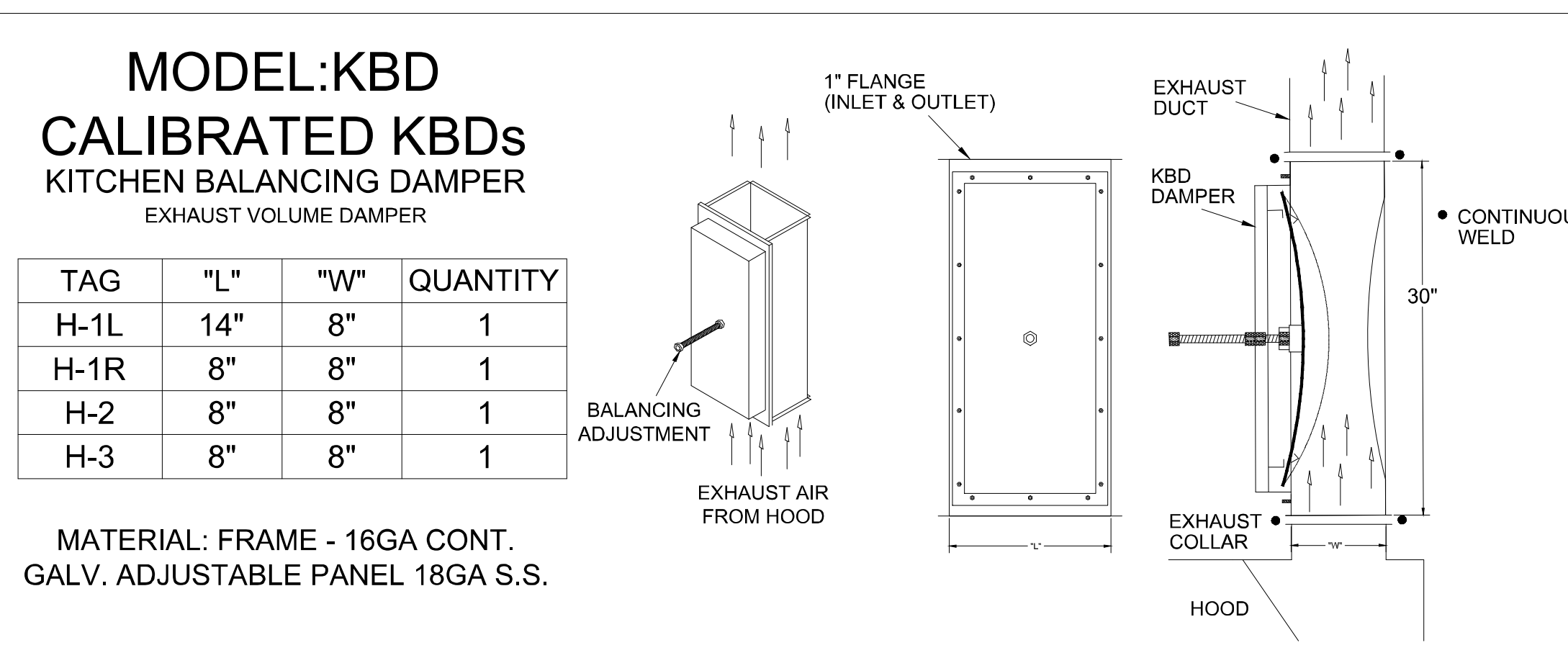
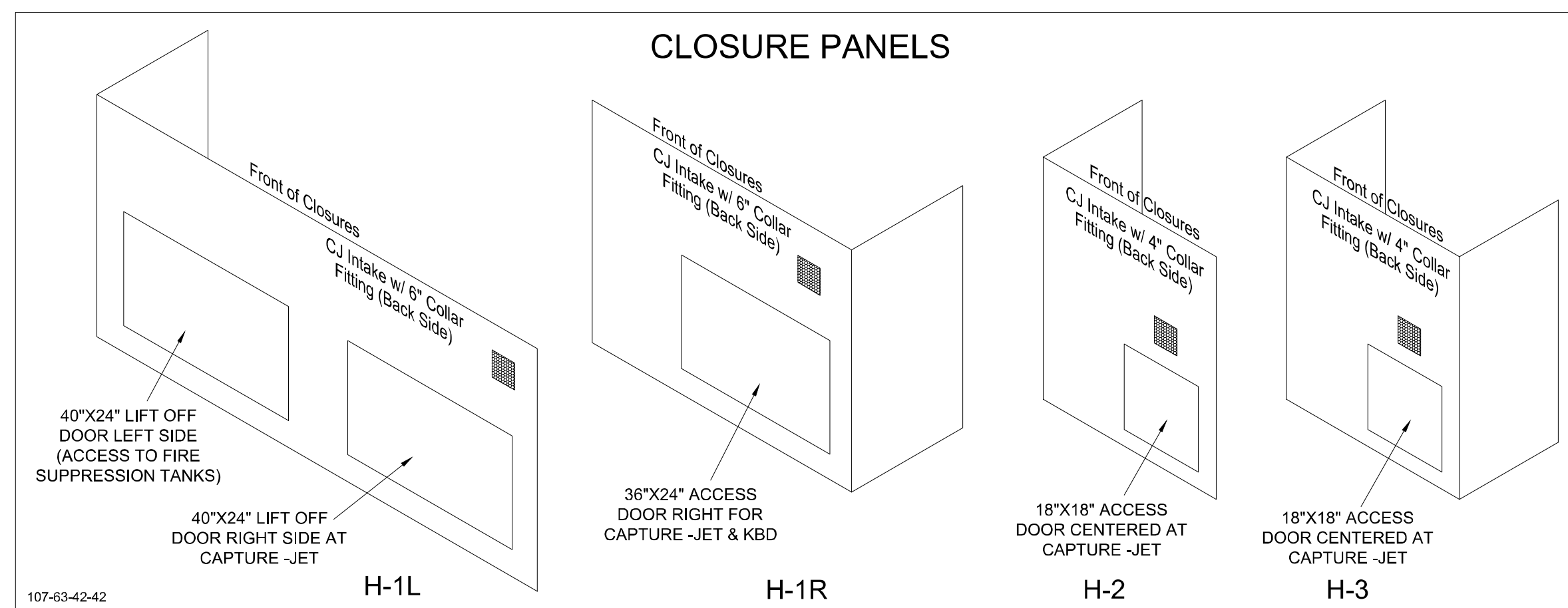
REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 25036.CC.S  
 DATE 04/10/2025  
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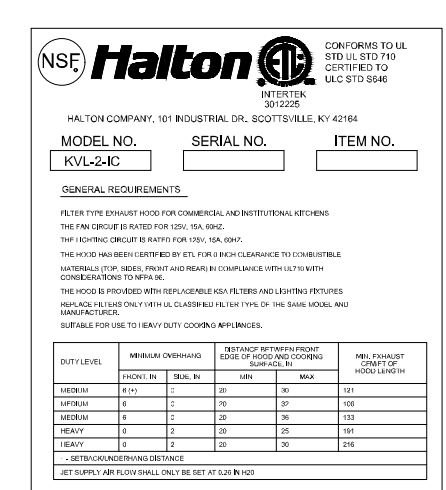
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 SHEET  
 GAS ISOMETRIC - LENNOX

SHEET NUMBER  
**M-901L**

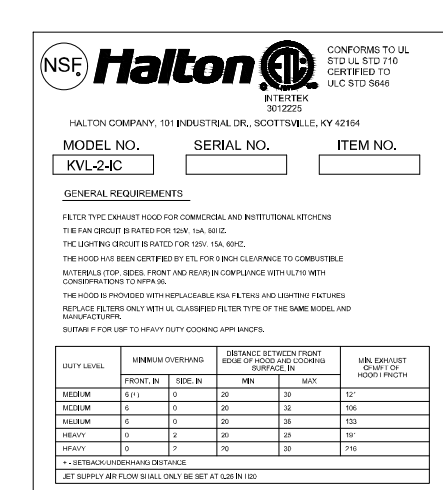
HOOD MODEL	HOOD NUMBER	EXHAUST COLLAR			EXHAUST AIR INFORMATION			CAPTURE AIR INFORMATION		S.S. KSA FILTERS		CEILING CLOSURES					MATERIAL		
		QTY	LENGTH	WIDTH	CFM	TAB	SP	CFM	SP	FULL	HALF	LED LIGHTS	QTY	CLOSURE HEIGHT	CEILING HEIGHT	HOOD WEIGHT		KBD DAMPER	K FACTOR (CFM = K FACTOR * √DP)
KVL-2-IC	H-1L	1	14"	8"	1204	0.13"	0.22"	80	0.30"	5	-	3	2	49"	122"	669 LBS	*	3369	ALL 18 GA 430 S.S.
KVL-2-IC	H-1R	1	8"	8"	709	0.13"	0.23"	47	0.30"	3	-	2	2			394 LBS	*	1971	
KVL-C-IC	H-2	1	8"	8"	701	0.30"	0.39"	30	0.29"	2	-	1	2	51"	245 LBS	*	1291		
KVL-C-IC	H-3	1	8"	8"	701	0.30"	0.39"	30	0.29"	2	-	1	3	245 LBS	*	1291			



- CEILING CLOSURE RECESSED 11" FROM FRONT TO CREATE SHELF
- FRONT CLOSURE PANEL WITH 40"x24" LIFT OUT DOOR LEFT SIDE (ACCESS TO FIRE SUPPRESSION)
- 40"x24" LIFT DOOR RIGHT SIDE AT CAPTURE-JET WITH FRONT CJ INTAKE
- CONTINUOUS CAPTURE INTERNAL RIGHT END CUTOUT
- 3" REAR STAND-OFF TO HAVE 1" THICK INSULATION
- NOTCHED LEFT END PANEL
- GREASE CUP RIGHT END
- AMEREX WEIGHT = 264 LBS



- CEILING CLOSURE RECESSED 11" FROM FRONT TO CREATE SHELF
- FRONT CLOSURE PANEL WITH 36"x24" ACCESS DOOR FOR ACCESS TO CAPTURE-JET
- CONTINUOUS CAPTURE INTERNAL LEFT END CUTOUT
- 3" REAR STAND-OFF TO HAVE 1" THICK INSULATION
- GREASE CUP RIGHT END



- CEILING CLOSURE RECESSED 10" FROM FRONT TO CREATE SHELF
- 18"x18" ACCESS DOOR CENTERED AT CAPTURE-JET WITH FRONT CJ INTAKE
- NOTCHED LEFT END PANEL
- DOUBLE RECEPTACLE PIN & SLEEVE
- 3"x3" TRIM STRIP FOR STANDOFF ON RIGHT END
- 3" SIDE & REAR STAND-OFF TO HAVE 1" THICK INSULATION
- GREASE CUP RIGHT END



- CEILING CLOSURE RECESSED 10" FROM FRONT TO CREATE SHELF
- 18"x18" ACCESS DOOR CENTERED AT CAPTURE-JET WITH FRONT CJ INTAKE
- NOTCHED RIGHT END PANEL
- DOUBLE RECEPTACLE PIN & SLEEVE
- 3" REAR STAND-OFF TO HAVE 1" THICK INSULATION
- GREASE CUP RIGHT END



THIS DRAWING MUST BE DESIGNED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:

1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS
2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.

NOTE TO APPROVER: ANY CHANGES IN COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.

APPROVED FOR FABRICATION:  WITH NO CHANGES  WITH CHANGES AS NOTED

UL, NSF, and other certification logos.

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

WEBSITE: www.halton.com

**HALTON CO. (USA)**  
101 INDUSTRIAL DRIVE  
SCOTTSDALE, KY 42164  
1-270-237-5600

**HALTON CO. (CANADA)**  
1021 BREVIK PLACE  
MISSISSAUGA, ON L4W 3R7  
1-905-624-0301

REVISION DESCRIPTION: REVISED CEILING HEIGHT & CCP - RELEASE

DATE: 11.05.25  
BY: SKK  
SIGNED: SKK

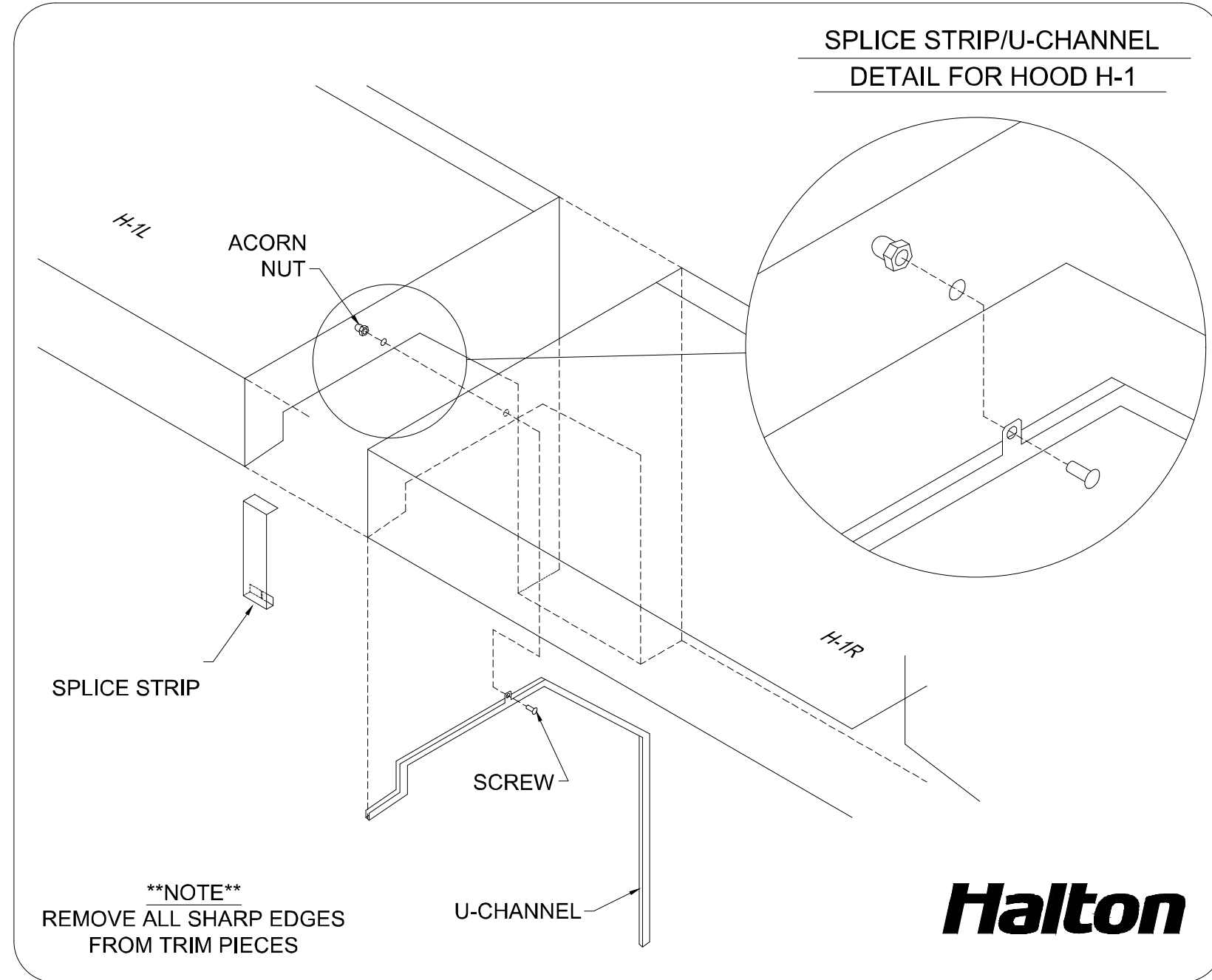
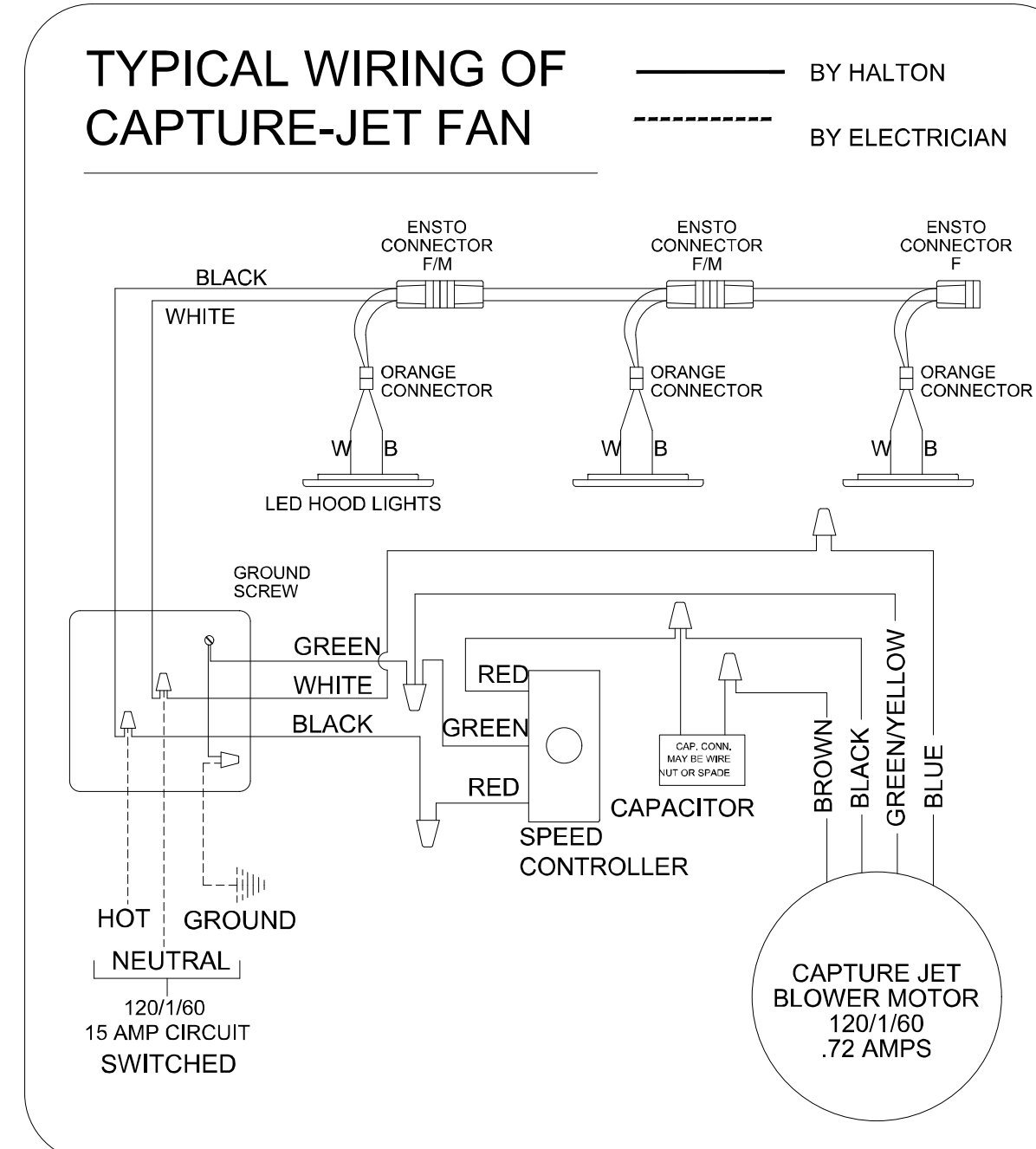
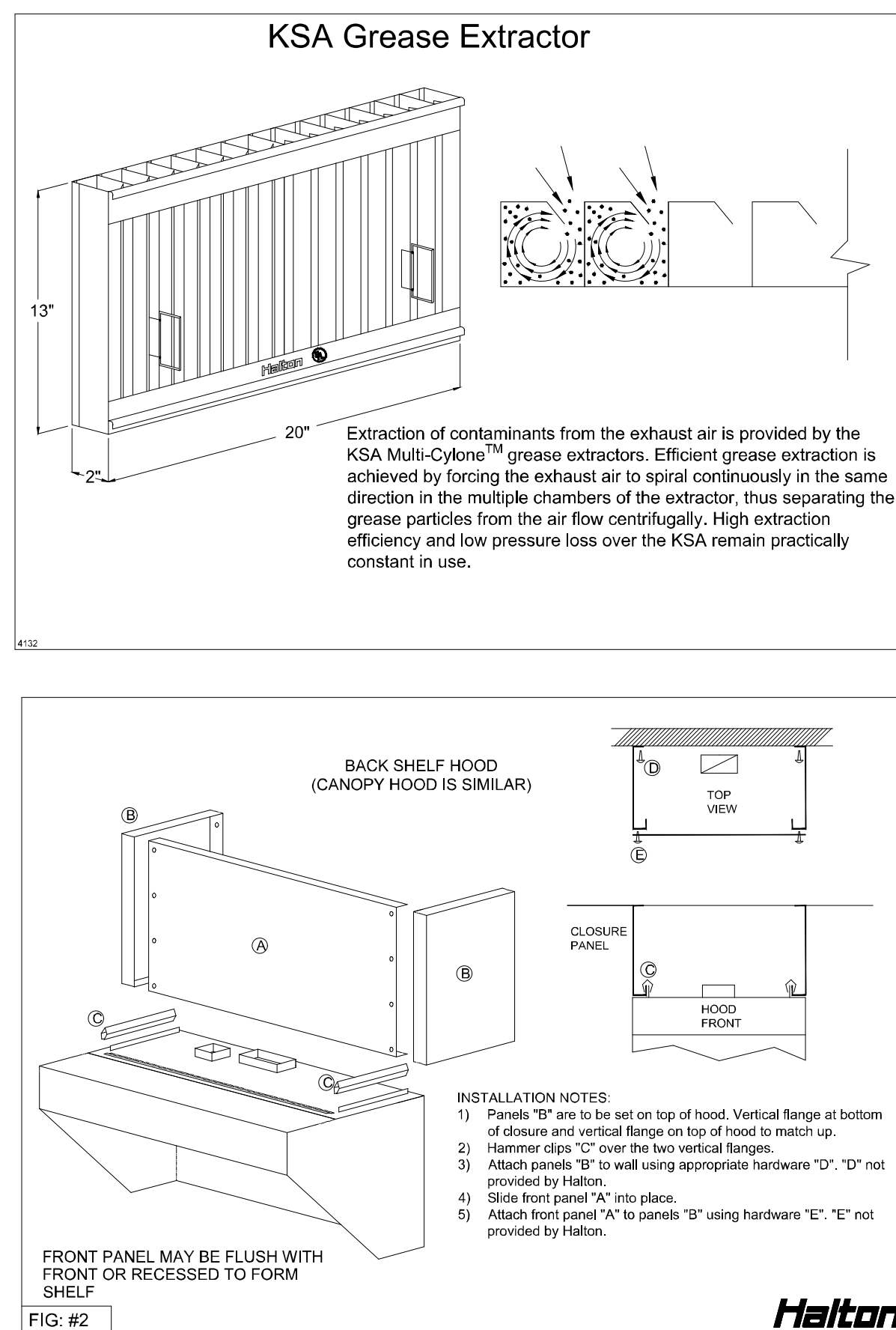
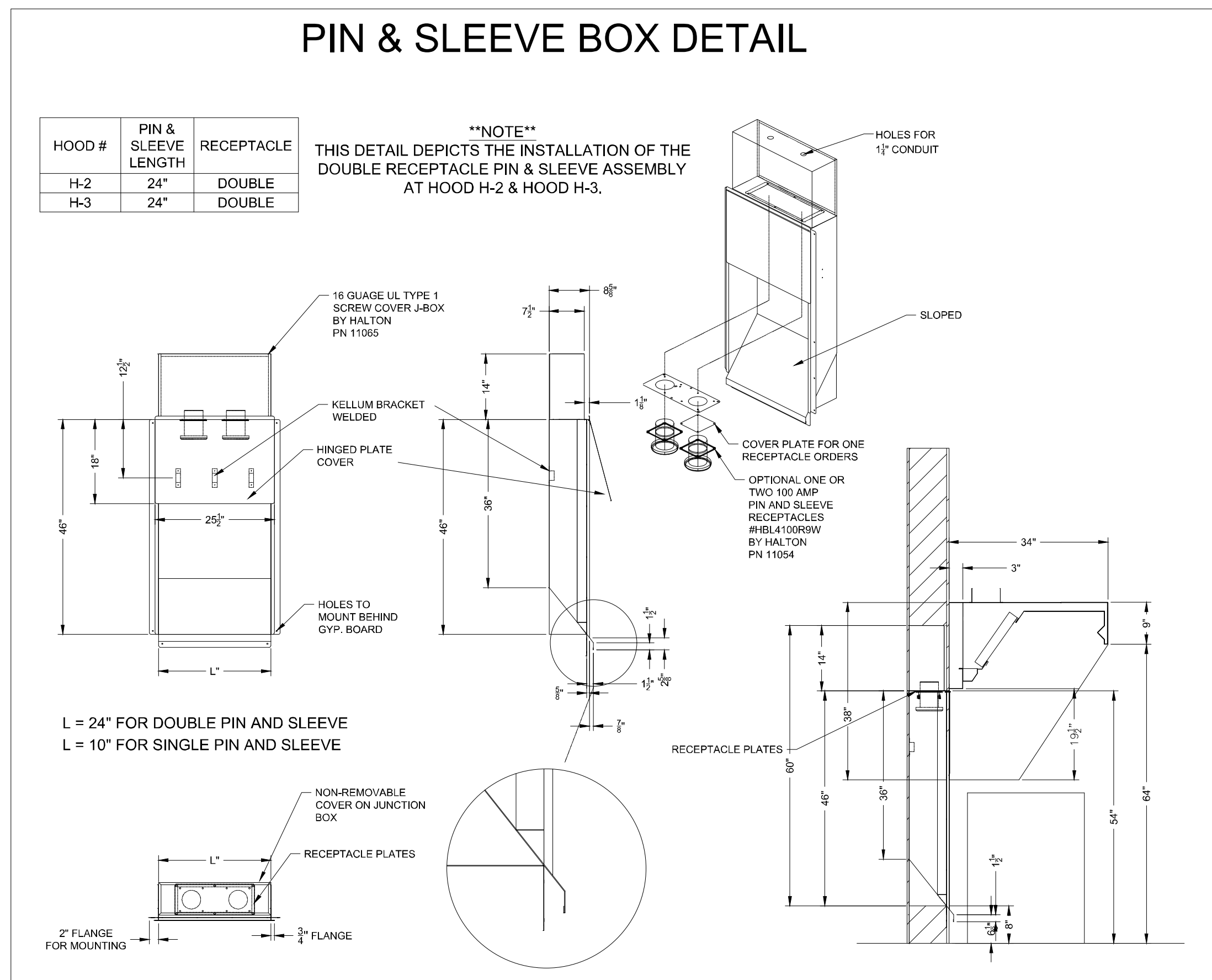
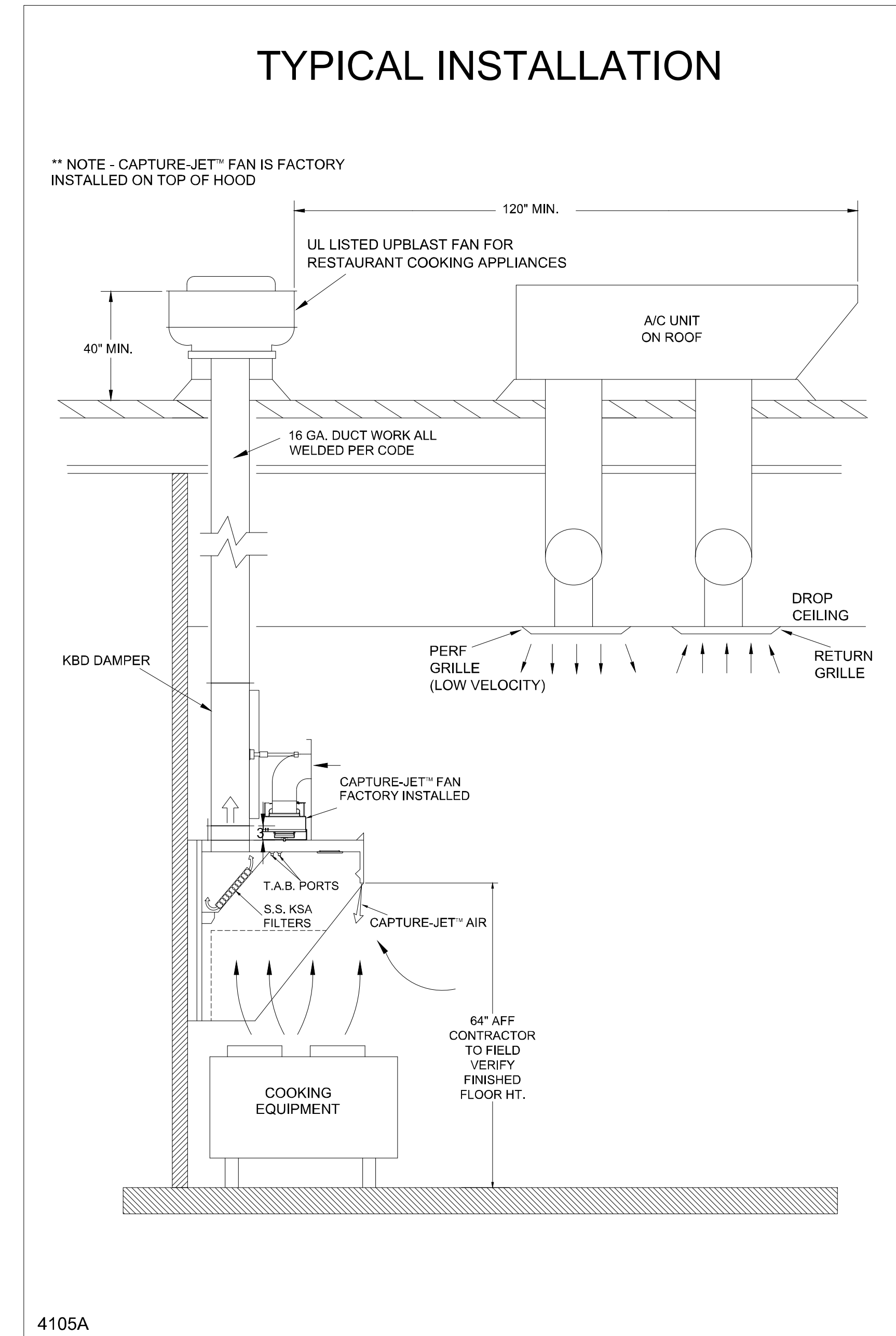
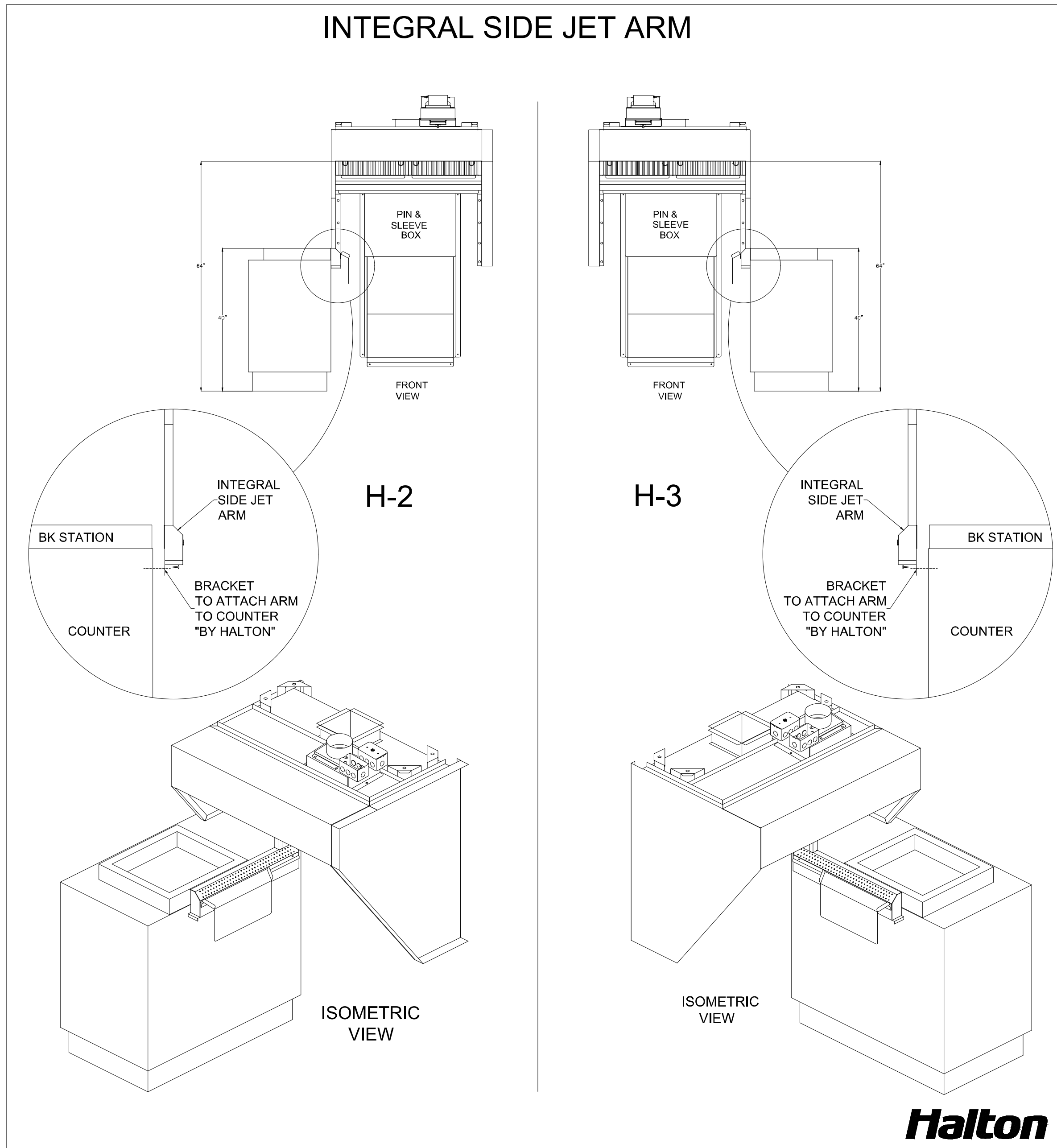
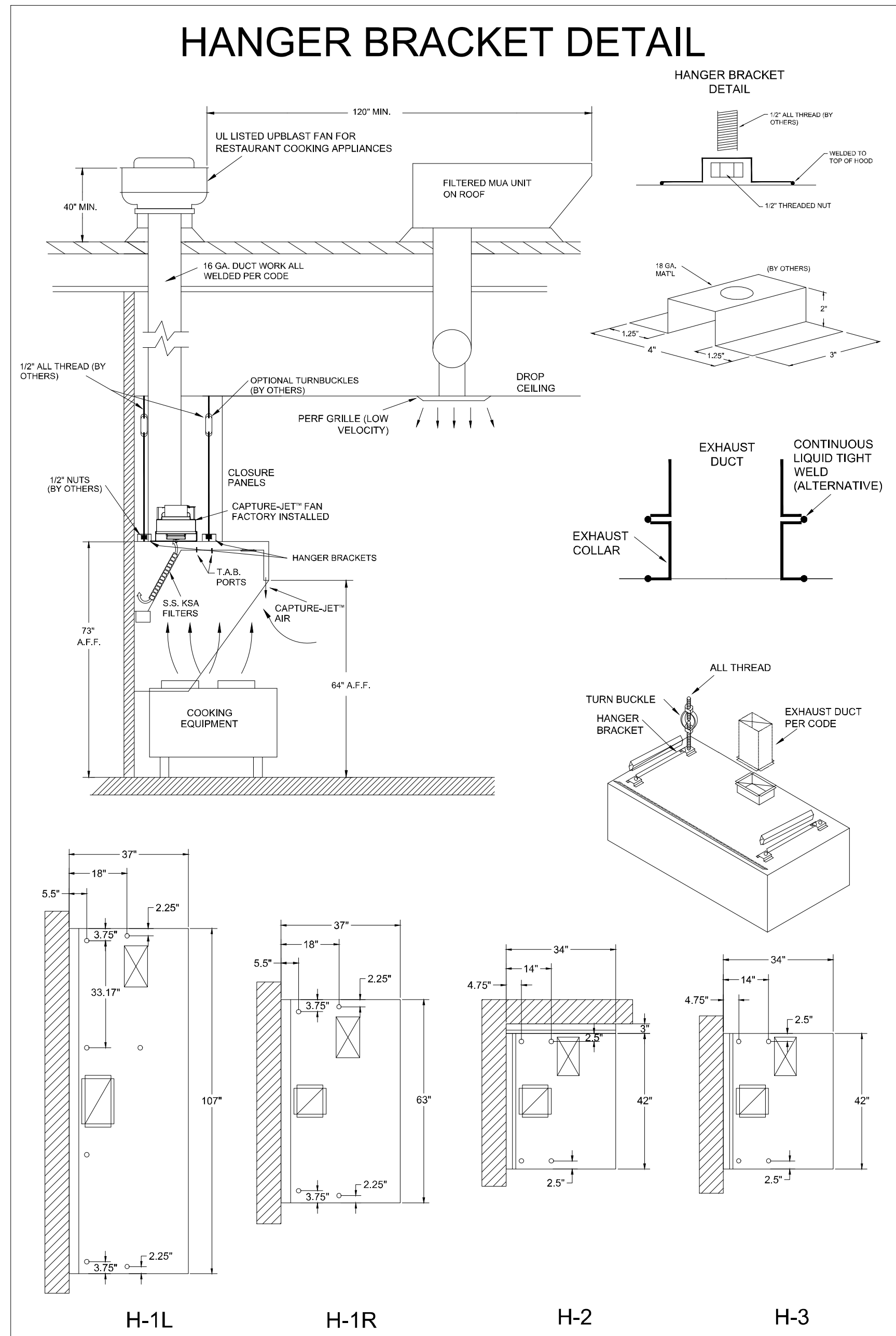
PROJECT: CHICK-FIL-A #5796  
OCEAN SPRINGS FSU

LOCATION: OCEAN SPRINGS, MS  
DRAWN BY: SKK  
SCALE: NOT TO SCALE

DATE: 04.14.25

DRAWING No.: U25-273-01  
SHEET No.: MH-1.1

**Halton**



HALTON HOODS - ETL LISTED PER LATEST 710 STANDARD - BUILT PER NFPA 96 - NSF LISTED

CONFORMS TO UL STD UL STD 710 CERTIFIED TO UL STD 8646

NSF Halton

INTERTEK 3012225

HALTON COMPANY, 101 INDUSTRIAL DR., SCOTTSDALE, KY 42164

MODEL NO. SERIAL NO. ITEM NO.

KVL-C-IC

GENERAL REQUIREMENTS

FILTER TYPE: CONULST HOOD FOR COMMERCIAL AND INSTITUTIONAL KITCHENS

THE HOOD IS RATED FOR 120V, 15A, 60HZ.

THE LIGHTING CIRCUIT IS RATED FOR 120V, 15A, 60HZ.

THE HOOD HAS BEEN CERTIFIED BY ETL FOR 8-INCH CLEARANCE TO COMBUSTIBLE MATERIALS (TOP, SIDES, FRONT AND REAR) IN COMPLIANCE WITH UL 710 WITH CONSIDERATIONS TO NFPA 96.

THE HOOD IS PROVIDED WITH REPLACEABLE KSA FILTERS AND LIGHTING FEATURES. REPLACE FILTERS ONLY WITH UL CLASSIFIED FILTER TYPE OF THE SAME MODEL AND MANUFACTURER.

SURFACE FOR USE TO HEAVY DUTY COOKING APPLIANCES.

DUTY LEVEL	MINIMUM OVERHANG		OBSTACLE BETWEEN FRONT EDGE OF HOOD AND COOKING SURFACE IN		MIN. EXHAUST CLEARANCE OF HOOD LENGTH
	FRONT IN	SIDE IN	MIN	MAX	
MEDIUM	0	20	0	20	108
HEAVY	0	20	0	20	108
HEAVY	0	20	0	20	108

AT SUPPLY AIR FLOW SHALL ONLY BE SET AT 5.0 IN/HD

NSF Halton

CONFORMS TO UL STD UL STD 710 CERTIFIED TO UL STD 8646

INTERTEK 3012225

HALTON COMPANY, 101 INDUSTRIAL DR., SCOTTSDALE, KY 42164

MODEL NO. SERIAL NO. ITEM NO.

KVL-2-4C

GENERAL REQUIREMENTS

FILTER TYPE: EXHAUST HOOD FOR COMMERCIAL AND INSTITUTIONAL KITCHENS

THE HOOD IS RATED FOR 120V, 15A, 60HZ.

THE LIGHTING CIRCUIT IS RATED FOR 120V, 15A, 60HZ.

THE HOOD HAS BEEN CERTIFIED BY ETL FOR 8-INCH CLEARANCE TO COMBUSTIBLE MATERIALS (TOP, SIDES, FRONT AND REAR) IN COMPLIANCE WITH UL 710 WITH CONSIDERATIONS TO NFPA 96.

THE HOOD IS PROVIDED WITH REPLACEABLE KSA FILTERS AND LIGHTING FEATURES. REPLACE FILTERS ONLY WITH UL CLASSIFIED FILTER TYPE OF THE SAME MODEL AND MANUFACTURER.

SURFACE FOR USE TO HEAVY DUTY COOKING APPLIANCES.

DUTY LEVEL	MINIMUM OVERHANG		OBSTACLE BETWEEN FRONT EDGE OF HOOD AND COOKING SURFACE IN		MIN. EXHAUST CLEARANCE OF HOOD LENGTH
	FRONT IN	SIDE IN	MIN	MAX	
MEDIUM	0	20	0	20	108
HEAVY	0	20	0	20	108
HEAVY	0	20	0	20	108

AT SUPPLY AIR FLOW SHALL ONLY BE SET AT 5.0 IN/HD

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:

1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS
2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.

NOTE TO APPROVER: ANY CHANGES IN COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.

REVISION DESCRIPTION

REV.	DATE	BY	SKK
1	11.05.25	SKK	
2			
3			
4			
5			
6			

NO CHANGE - RELEASE

PROJECT: CHICK-FIL-A #5796 OCEAN SPRINGS FSU

LOCATION: OCEAN SPRINGS, MS

DRAWN BY: SKK

DATE: 04-14-25

SCALE: NOT TO SCALE

APPROVED BY: \_\_\_\_\_

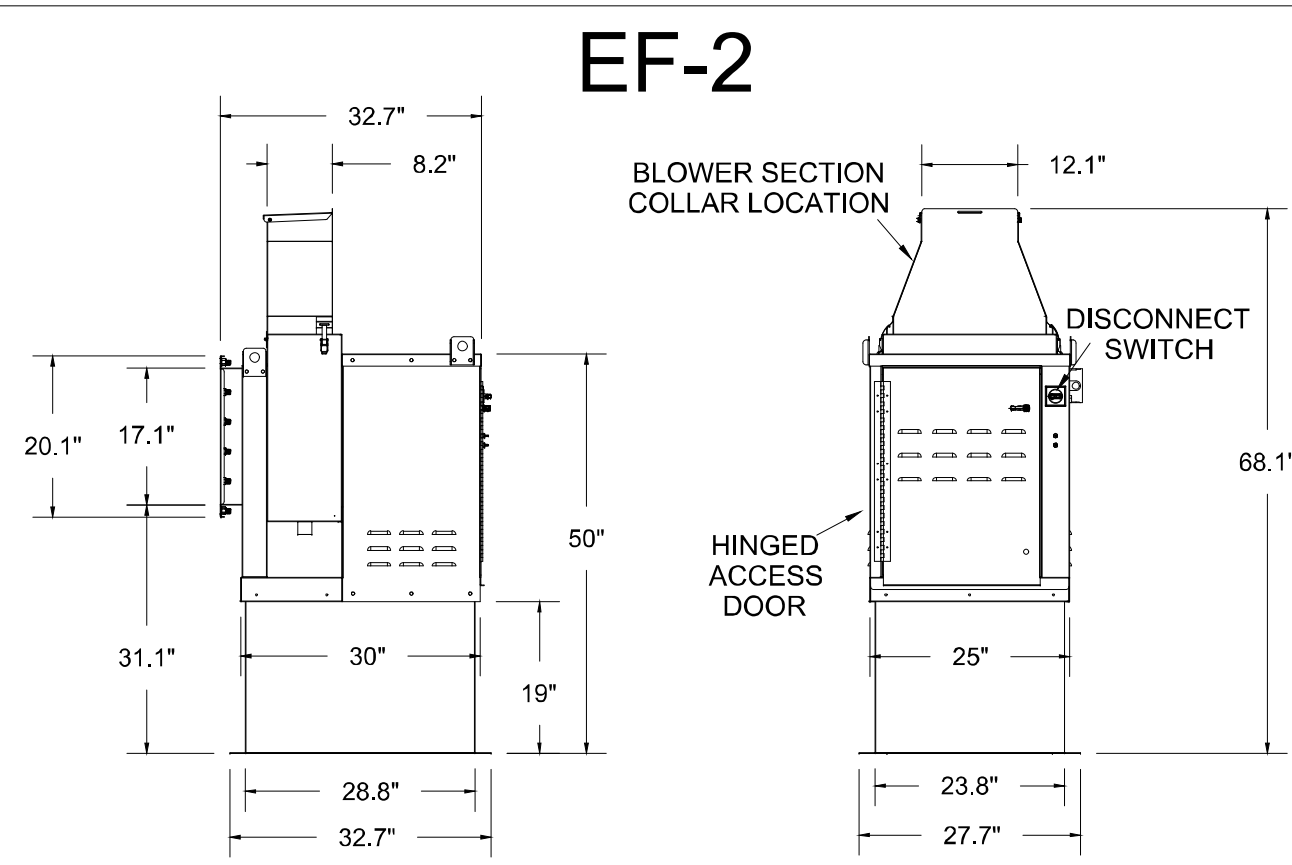
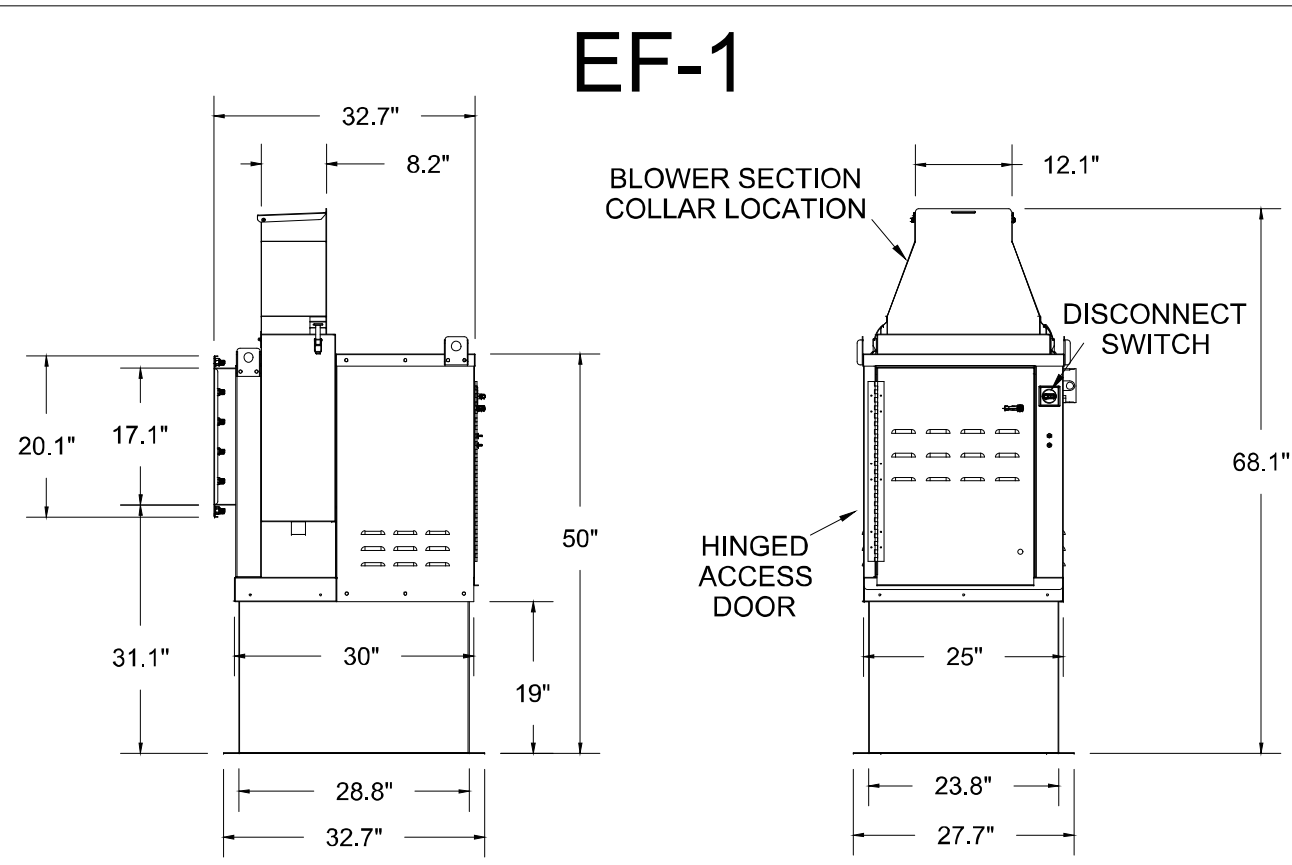
DATE: \_\_\_\_\_

Halton

DRAWING NO.: U25-273-02

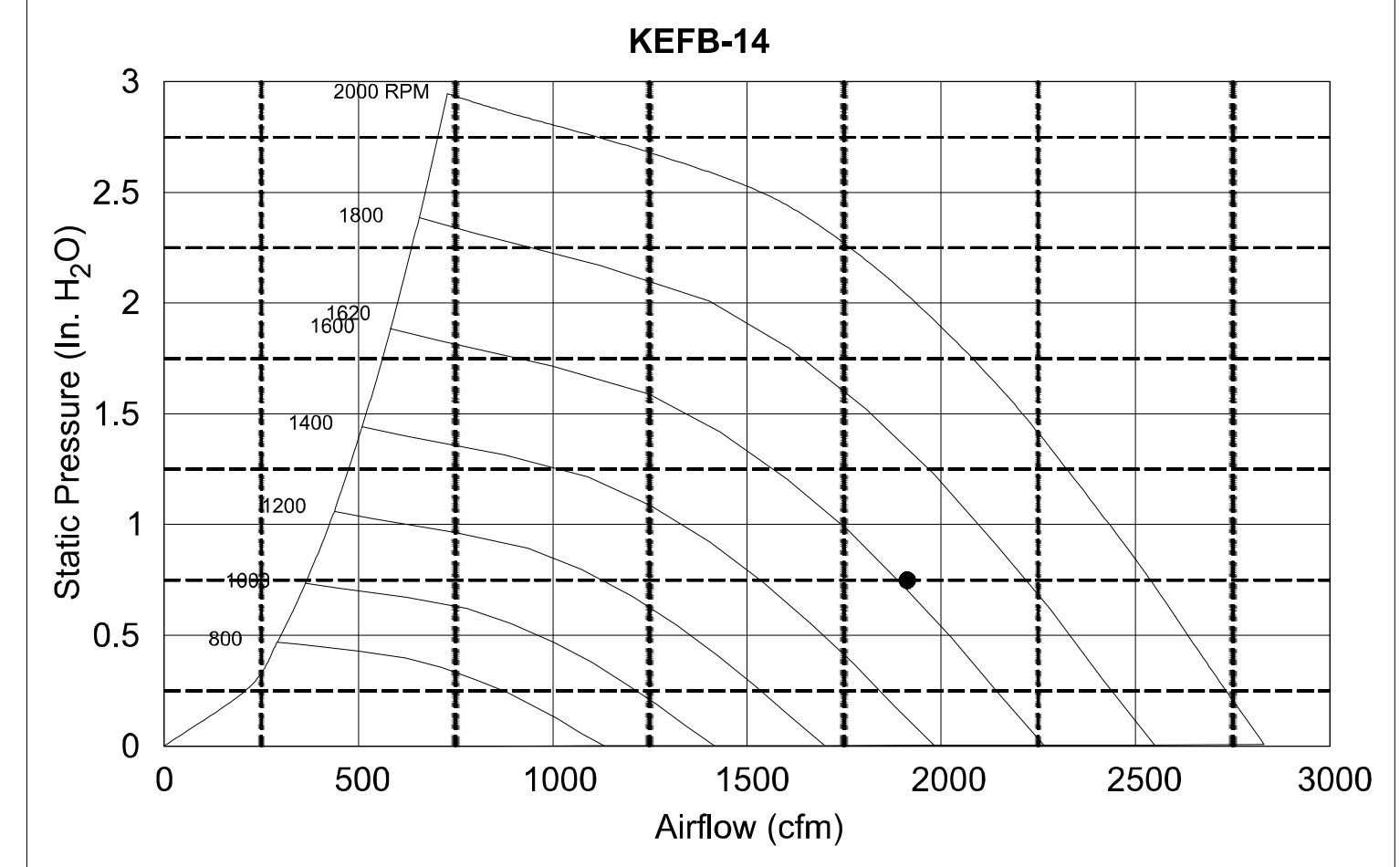
SHEET NO.: MH-1.2





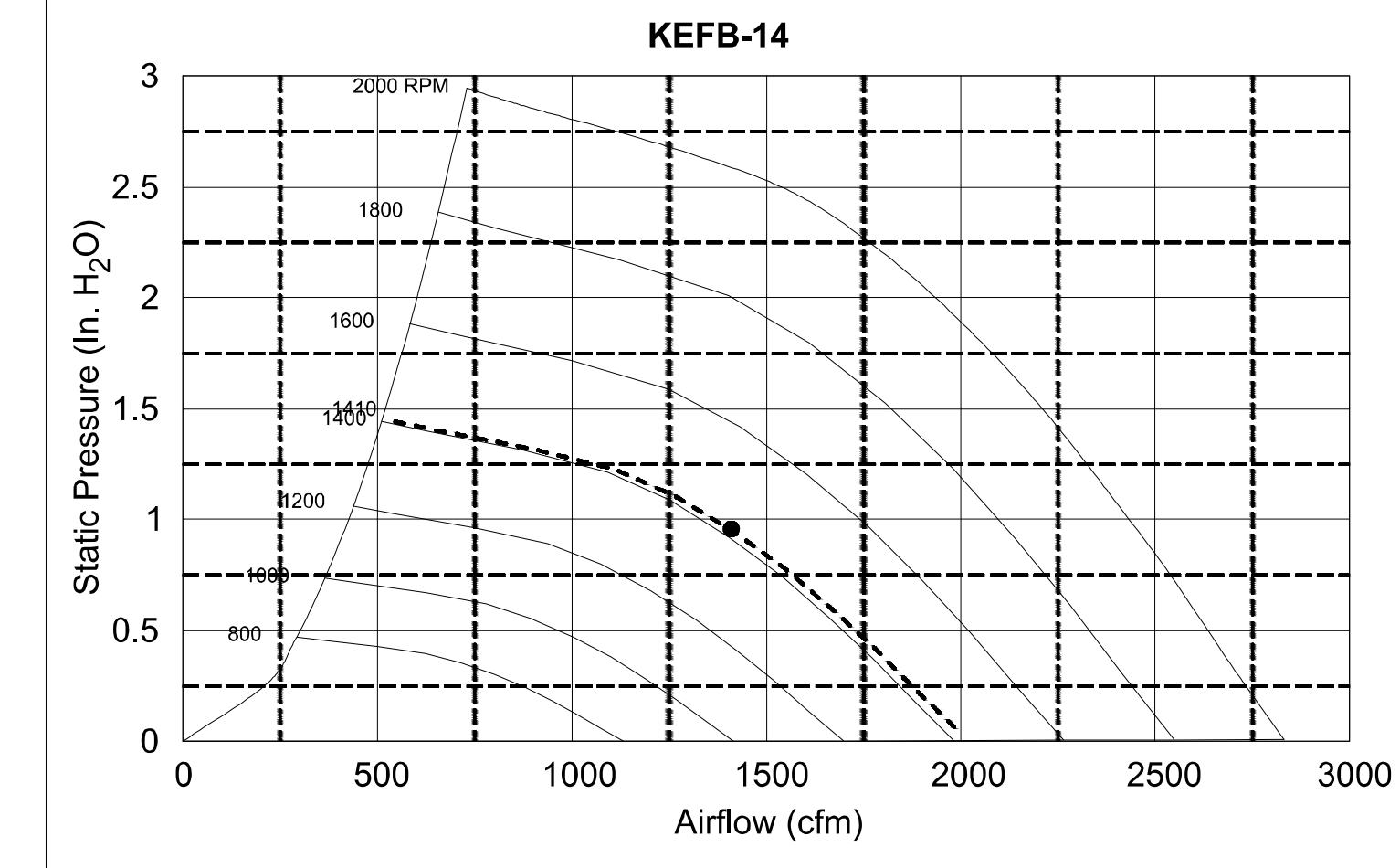
Halton KEFB Exhaust Fan

Job Name	Chick-#1-A	Item No	Qty	Fan RPM	Volts/Ph/Amps
Location	EF-1	KEFB-14	1,620	115/1/60	
Date	1/26/2023	Fan BHP	0.55	Motor HP	0.75
Model	1.912	dB	85.3	TAB Port, in WC	4.8
Airflow, cfm					
Static Pressure, in WC					



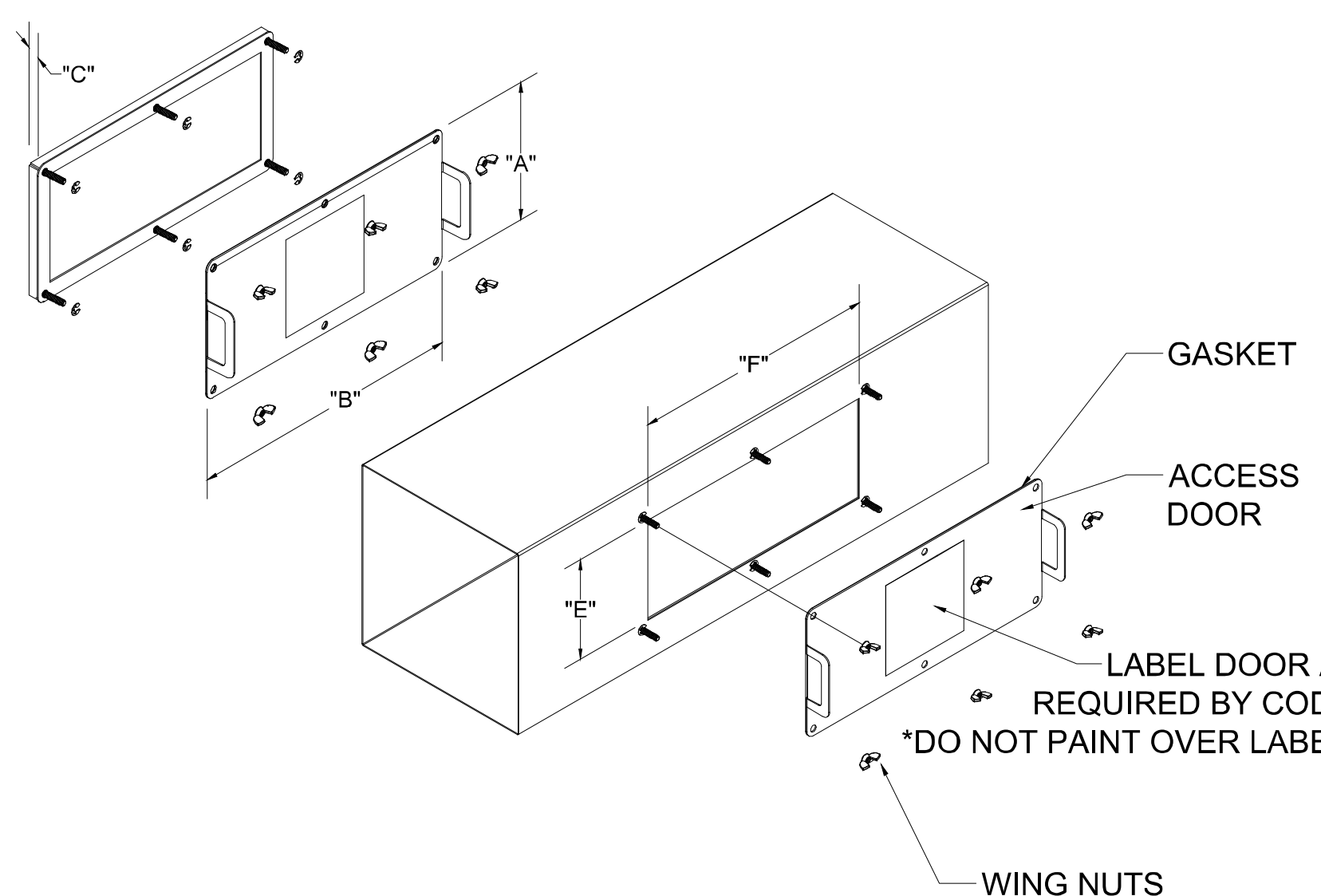
Halton KEFB Exhaust Fan

Job Name	Chick-#1-A	Item No	Qty	Fan RPM	Volts/Ph/Amps
Location	EF-2	KEFB-14	1,410	115/1/60	
Date	1/26/2023	Fan BHP	0.38	Motor HP	0.75
Model	1.402	dB	81.6	TAB Port, in WC	2.1
Airflow, cfm					
Static Pressure, in WC					



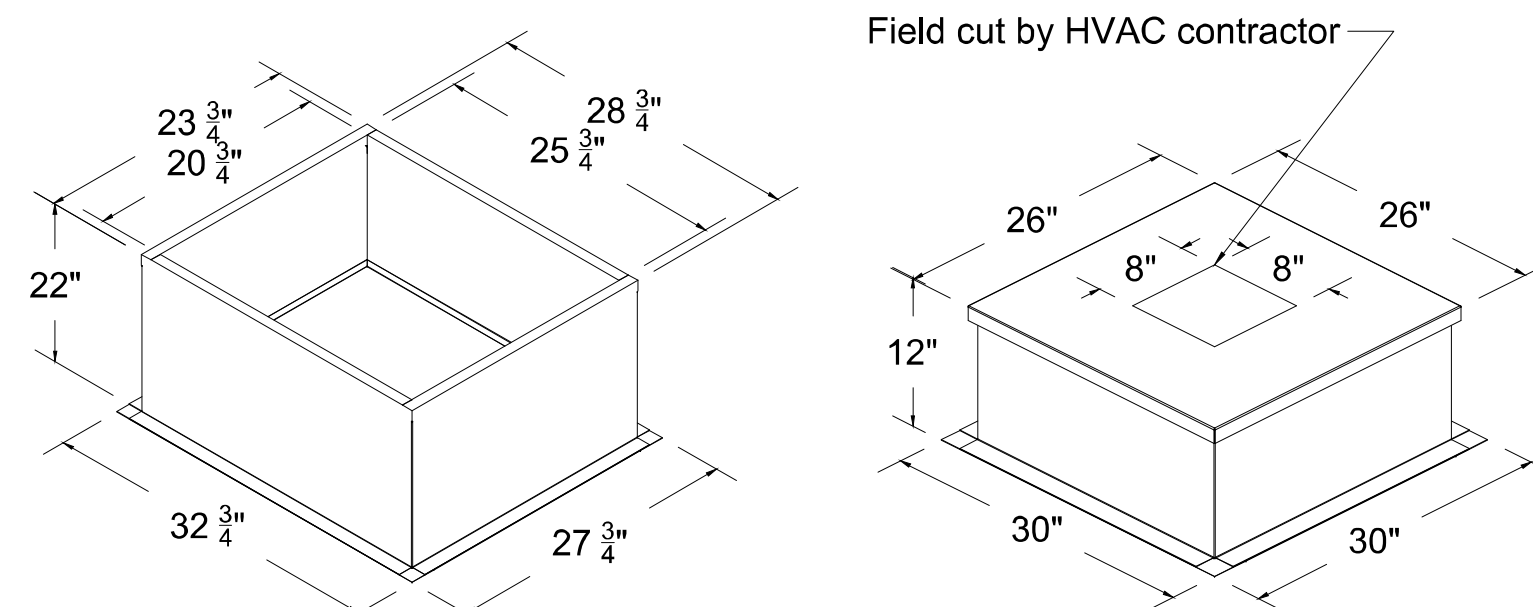
GREASE ACCESS DOOR SCHEDULE					
MODEL	"A"	"B"	"C"	"E"	"F"
KAP0715	7	15	FLAT	5.5	13.5
KAP1015	10	15	1/2	7	12

ACCESS DOORS SHALL BE U.L. 1978 LISTED OR FIELD FABRICATED, REQUIRE NO TOOLS FOR REMOVAL AND MEET THE REQUIREMENTS OF THE CURRENT EDITION OF THE IMC. ACCESS DOOR SHALL BE SECURED WITH THUMB SCREWS. ACCESS DOORS SHALL BE SEALED WITH A MINIMUM 1500 DEGREE GASKET MATERIAL

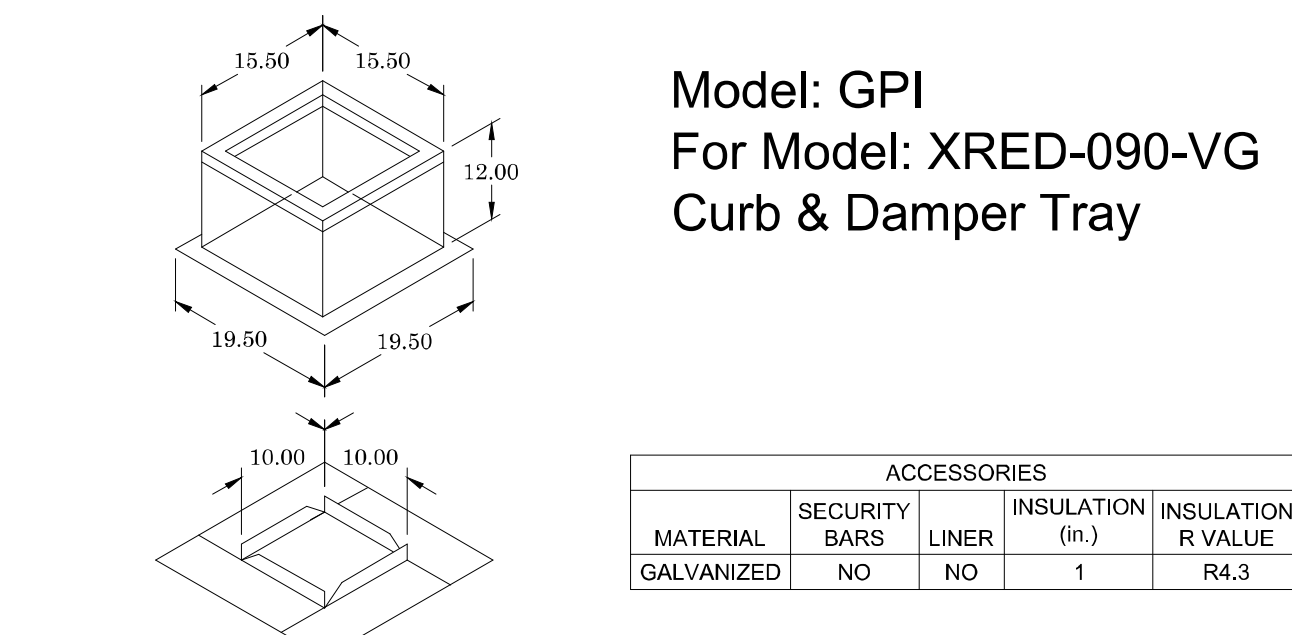


INSTALL PER MANUFACTURER'S INSTRUCTIONS

Halton Kitchen Exhaust Fan Curb Insulated Duct Curb



- Standard Construction Features:**
  - Roof Curb fits between the building roof and the fan mounted directly to the roof support structure
  - Constructed of 18 ga aluminum steel
  - Straight Sided without a cant
  - 2 in. mounting flange
  - Height is 22 in.
- Insulated Duct Curb Standard Construction Features:**
  - Duct Curb fits between the building roof and the fan mounted directly to the roof support structure
  - Constructed of 18 ga aluminum steel
  - Straight Sided without a cant
  - 2 in. mounting flange
  - Height is 12 in.
  - 16 ga cap



GENERAL									
TAG	QTY	MODEL	SIZING METHOD	UNDERSIZING (in.)	WEIGHT (lb)	SHIPPED ASSEMBLED	UNION LABEL		
EF-3	1	GPI-17	NOMINAL	1.5	14	YES	PREFERENCE		

DIMENSIONS										
CURB HEIGHT (in.)	NOMINAL OUTSIDE WIDTH (in.)	NOMINAL OUTSIDE LENGTH (in.)	ACTUAL OUTSIDE WIDTH (in.)	ACTUAL OUTSIDE LENGTH (in.)	INSIDE WIDTH (in.)	INSIDE LENGTH (in.)	FLANGE WIDTH (in.)	FLANGE LENGTH (in.)	HINGE BASE WIDTH (in.)	HINGE BASE LENGTH (in.)
									12	16
12	17	17	15.5	15.5	12	12		19.5	16	

\*MAY NOT BE APPLICABLE

Model: XRED-095-VG Direct Drive Centrifugal Roof Exhaust Fan

Dimensional	
Quantity	1
Weight w/ Acc's (lb)	28
Weight w/ Acc's (b)	35
Weight w/ Acc's and Curb (lb)	49
Standard Curb Cap Size (in.)	17 x 17
Optional Damper (in.)	10 x 10
Roof Opening (in.)	13.5 x 13.5

RECOMMENDED EXHAUST DUCT SIZE: Ø21.80

Performance:

Requested Volume (CFM)	360
Actual Volume (CFM)	375
Total External SP (in. wg)	0.375
Fan RPM	1207
Operating Power (hp)	0.05
Elevation (ft)	23
Airstream Temp.(F)	70
Air Density (lb/ft3)	0.075
Tip Speed (ft/min)	3,437
Static Eff. (%)	41

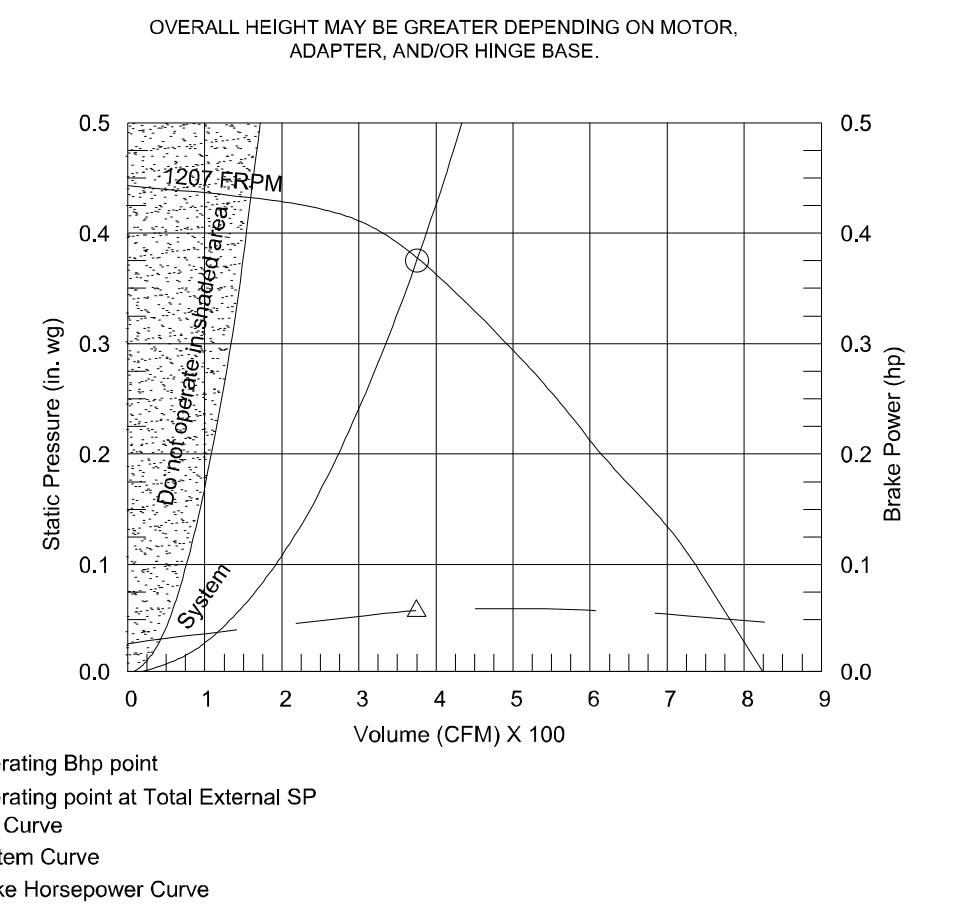
Misc Fan Data:

Fan Eff. Index (FEI)	-
Outlet Velocity (ft/min)	323

Motor:

Motor Mounted	Yes
Size (hp)	1/8 (or greater)
Voltage/Cycle/Phase	115/60/1
Enclosure	ODP
Motor RPM	1550
Efficiency Rating	Standard
Windings	1

EF-3



Model: SP-A510-VG

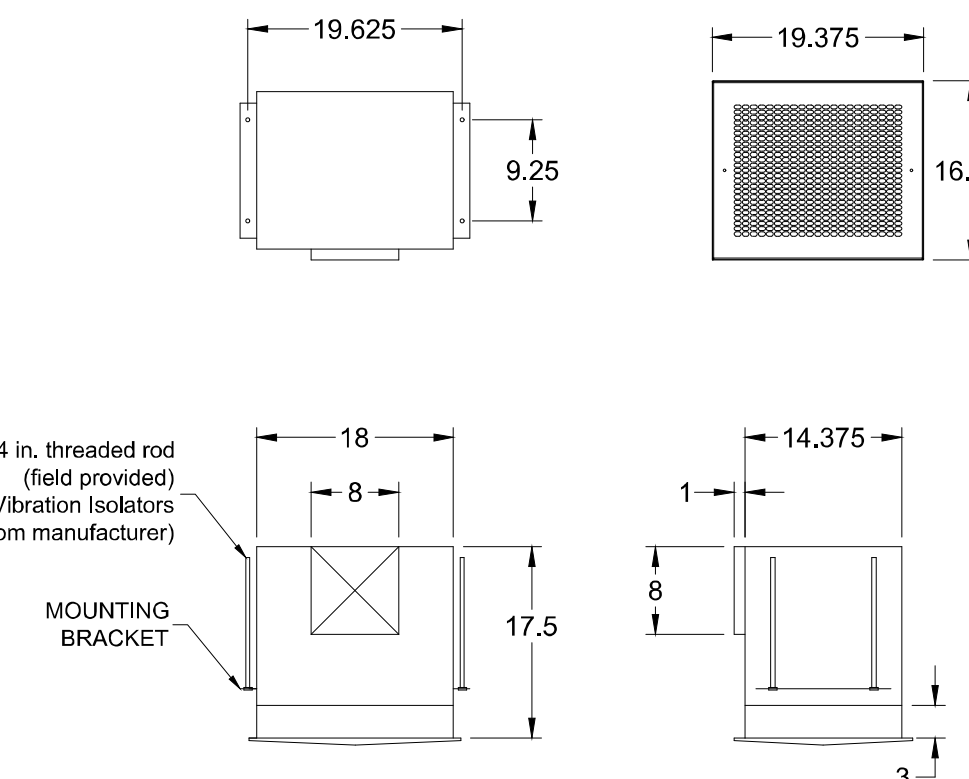
Dimensional	
Quantity	1
Weight w/ Acc's (lb)	31
Weight w/ Acc's (lb)	40

Performance:

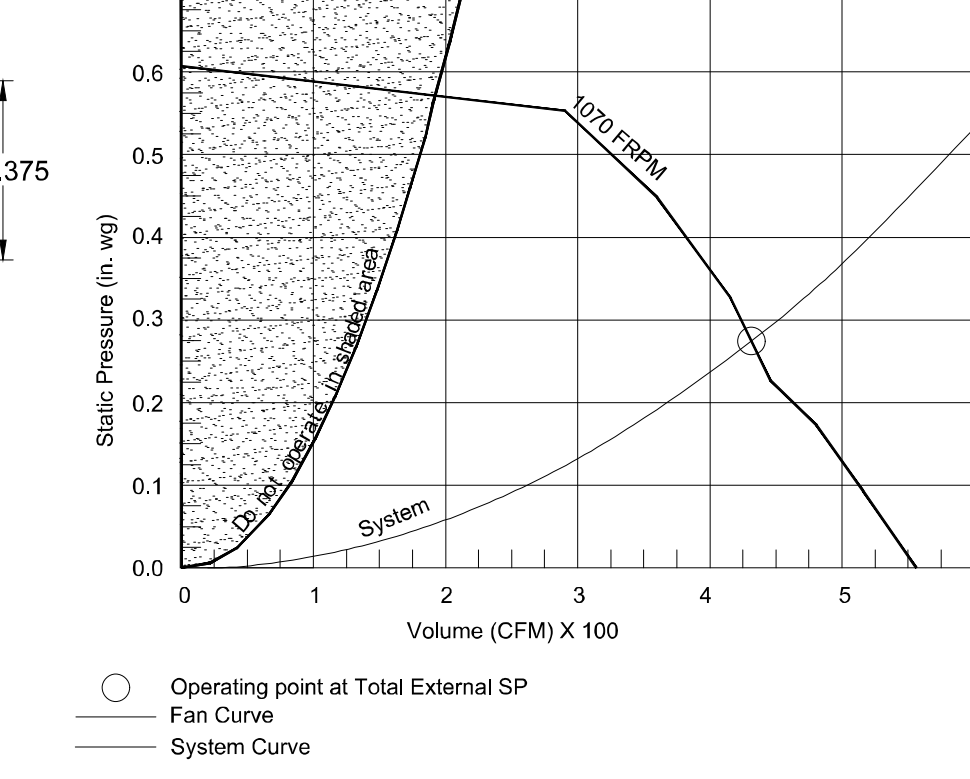
Requested Volume (CFM)	450
Actual Volume (CFM)	431
Total External SP (in. wg)	0.275
Fan RPM	1070
* FLA (A)	3.3
Elevation (ft)	23
Airstream Temp.(F)	70
Air Density (lb/ft3)	0.075
Sones	4.5

Motor:

Motor Mounted	Yes
** Input Watts (W)	224
Voltage/Cycle/Phase	115/60/1
Enclosure	ODP



TF-1



Model: SP-A510-VG

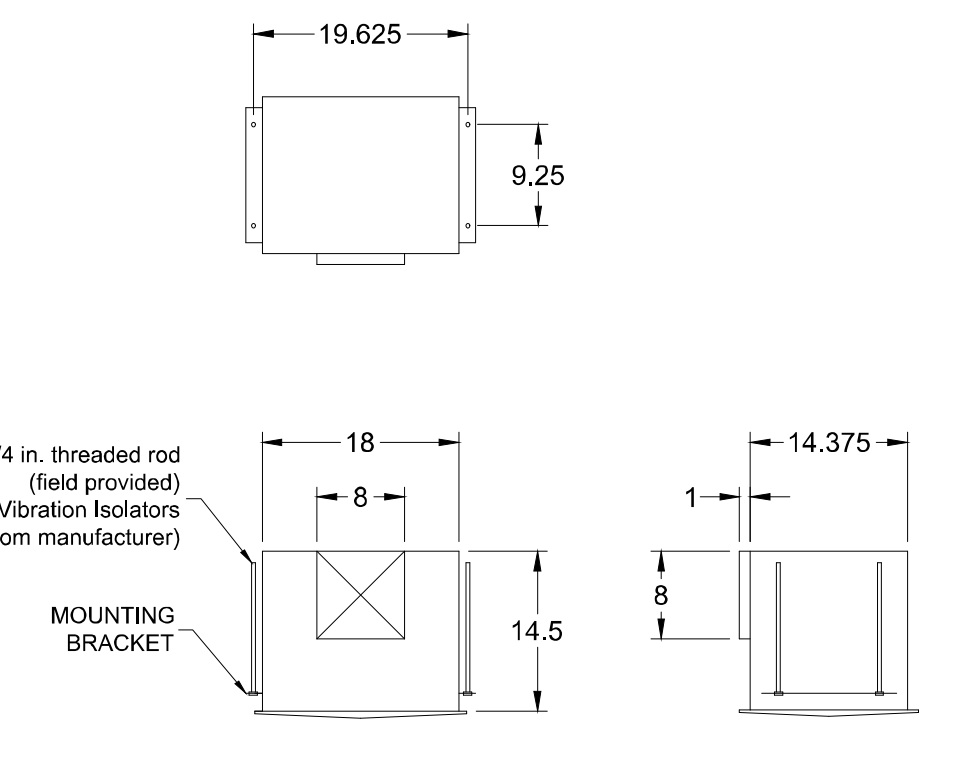
Dimensional	
Quantity	1
Weight w/ Acc's (lb)	31
Weight w/ Acc's (lb)	32

Performance:

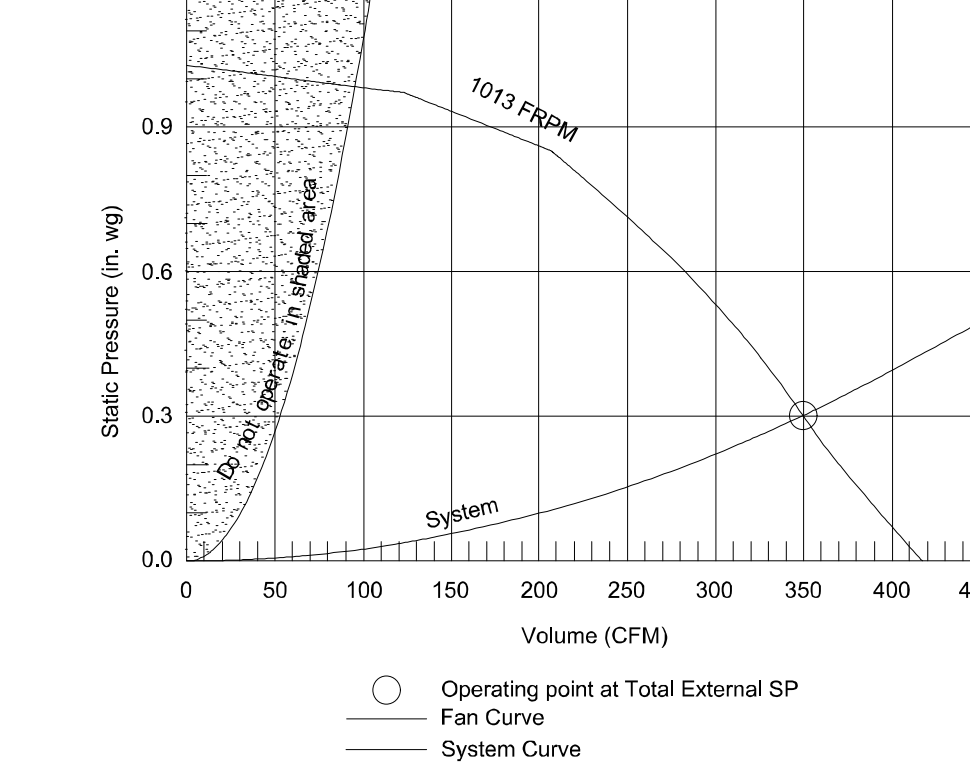
Requested Volume (CFM)	350
Actual Volume (CFM)	350
Total External SP (in. wg)	0.3
Fan RPM	1013
* FLA (A)	2.45
Elevation (ft)	807
Airstream Temp.(F)	70
Air Density (lb/ft3)	0.073
Sones	4.5

Motor:

Motor Mounted	Yes
** Input Watts (W)	58
Voltage/Cycle/Phase	115/60/1
Enclosure	TENV

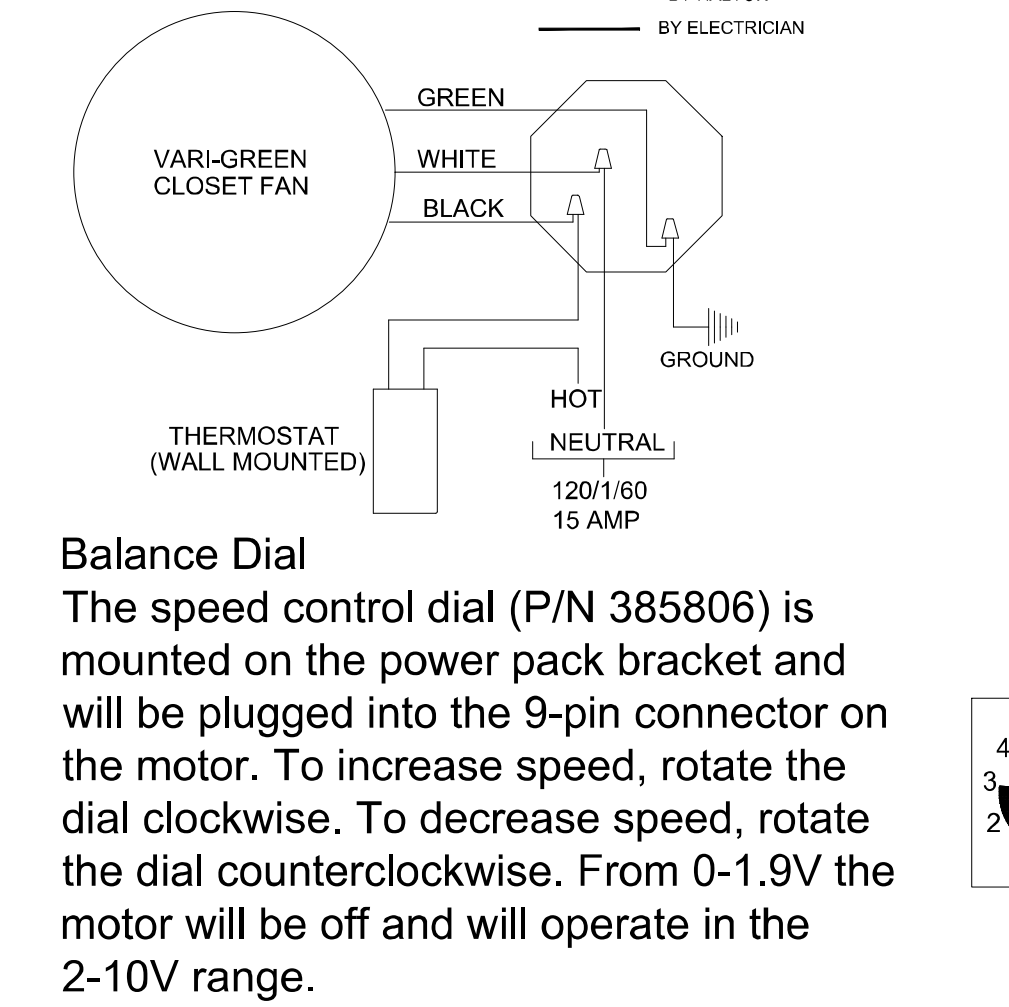
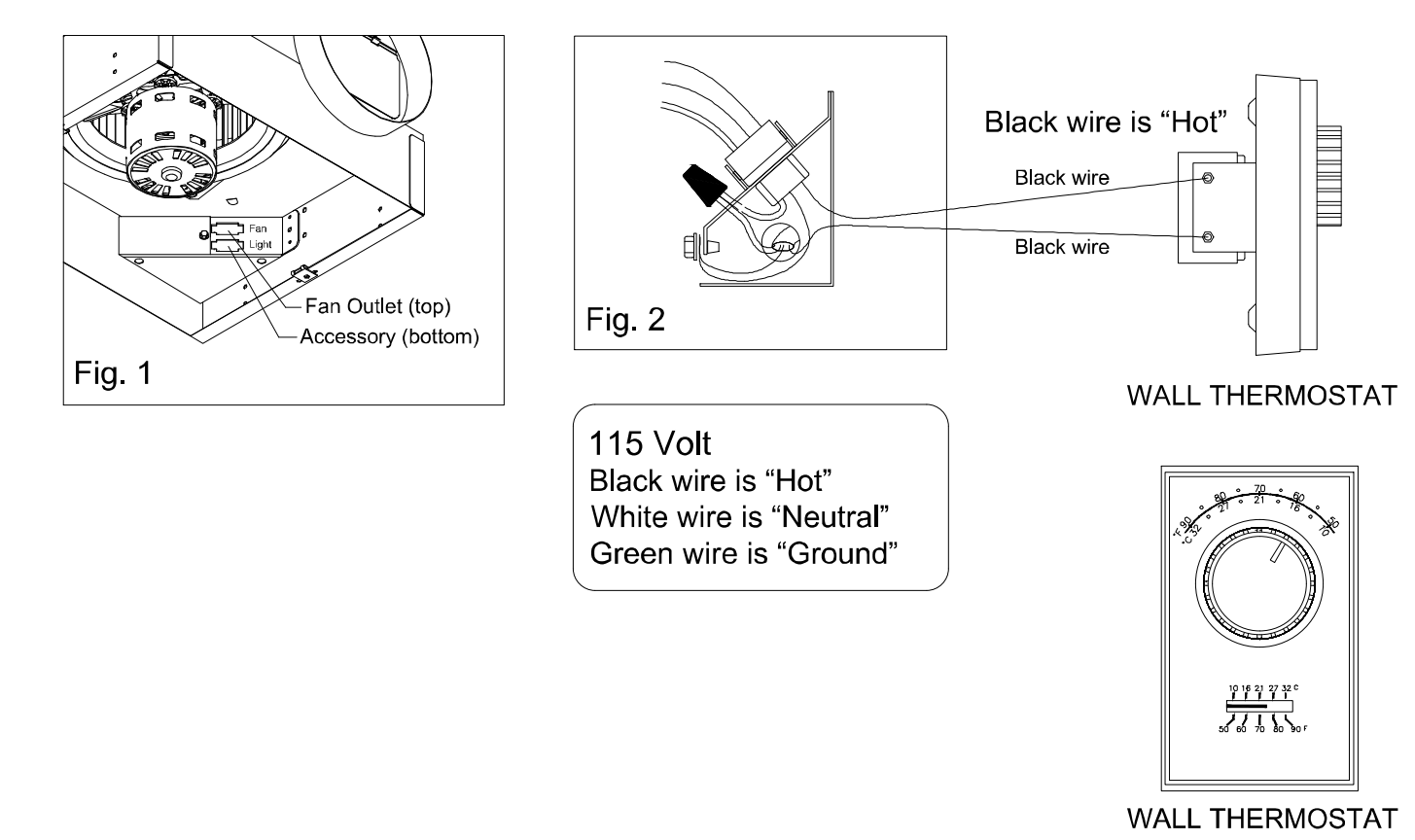


TF-2



SP-A510-VG TECHNICAL CLOSET FAN WIRING AND SPEED CONTROL

- Wire the Thermostat
- The wiring harness for the thermostat is factory installed in the location shown in Figure 1. There is a small removable cover on the exterior of the portion shown in Figure 2 and a knockout for installation of conduit. Install conduit and run wires to thermostat location. See Figure 2 and Wall Thermostat detail for wiring connections.
  - Replace wiring cover. The fan has it's power leg interrupted by the thermostat on the wall, turning it on or off. The variable speed is the Balance Dial set point at the fan and is the speed setting you want the fan to run when it's "on".



The tri-voltage feature allows the motor to operate at 115/208-230/277V. The operating voltage is selected via the voltage jumper wire. When the jumper wire is connected, the motor operates at 115V, see Figure 3. When the jumper wire is disconnected and capped, the motor operates at 208-230/277V, see Figure 4.

Figure 3 115V Operation  
Figure 4 208-230/277V Operation



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- THE LOCATION AND TYPE OF COOKING EQUIPMENT.

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REVISION AND RESUBMIT:  WITH CHANGES AS NOTED

APPROVED FOR FABRICATION:  WITH NO CHANGES

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

WEBSITE: www.halton.com

HALTON CO. (CANADA)  
1021 BREVIK PLACE  
SCOTTSDALE, KY 42164  
1-270-237-5600

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

REV. 1 2 3 4 5 6 7

ADDED SP-A510 INSTALLATION INST. - RELEASE

REVISION DESCRIPTION

DATE 11.05.25

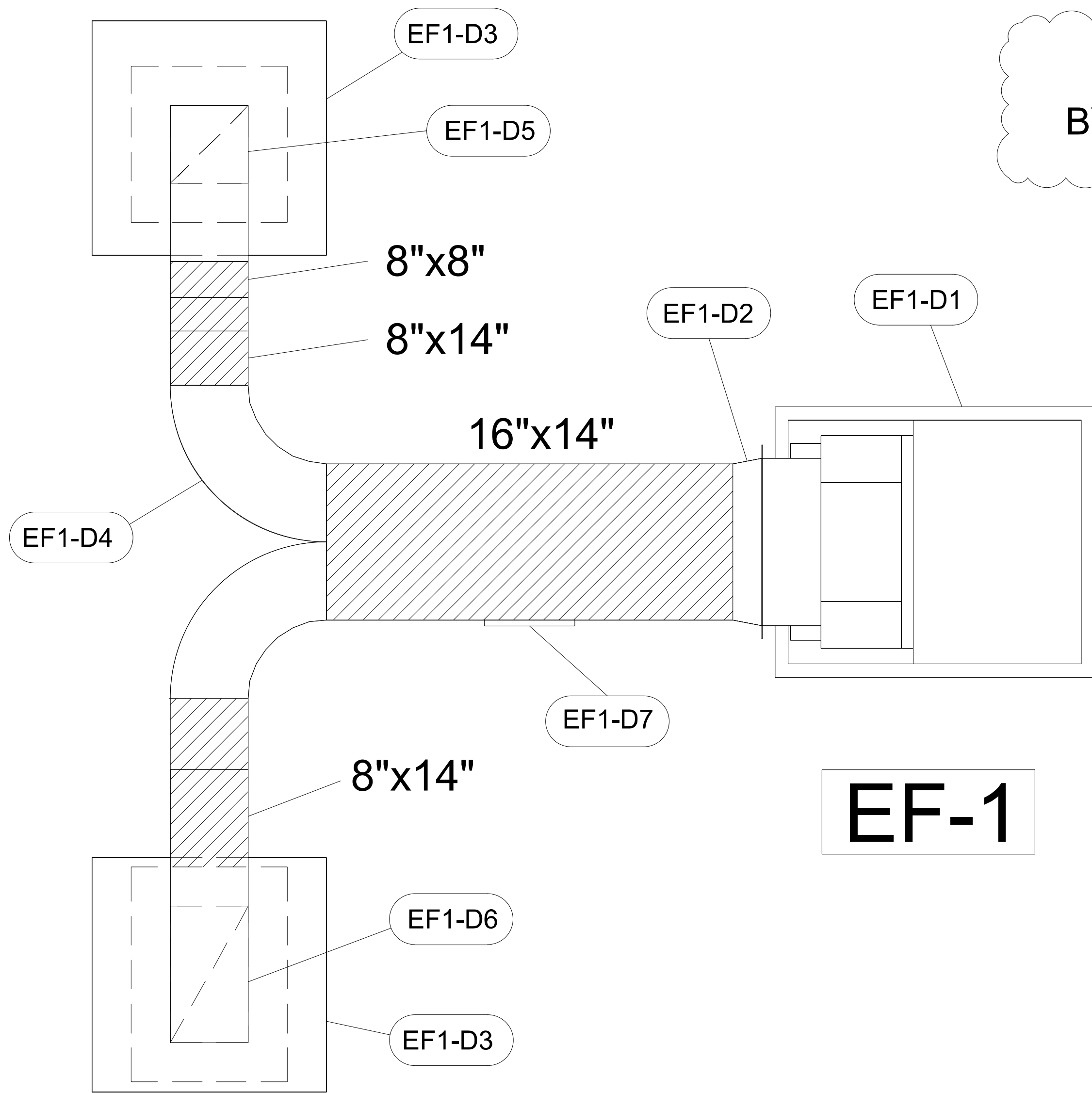
BY SKK

PROJECT: CHICK-FIL-A #5796  
OCEAN SPRINGS FSU  
LOCATION: OCEAN SPRINGS, MS  
DRAWN BY: SKK DATE: 04.14.25  
SCALE: NOT TO SCALE  
CONSULTANT:

DRAWING TITLE: CFA FAN DETAILS

DRAWING No.: U25-273

REV. NO.: 1 SHEET NO.: MH-1.4

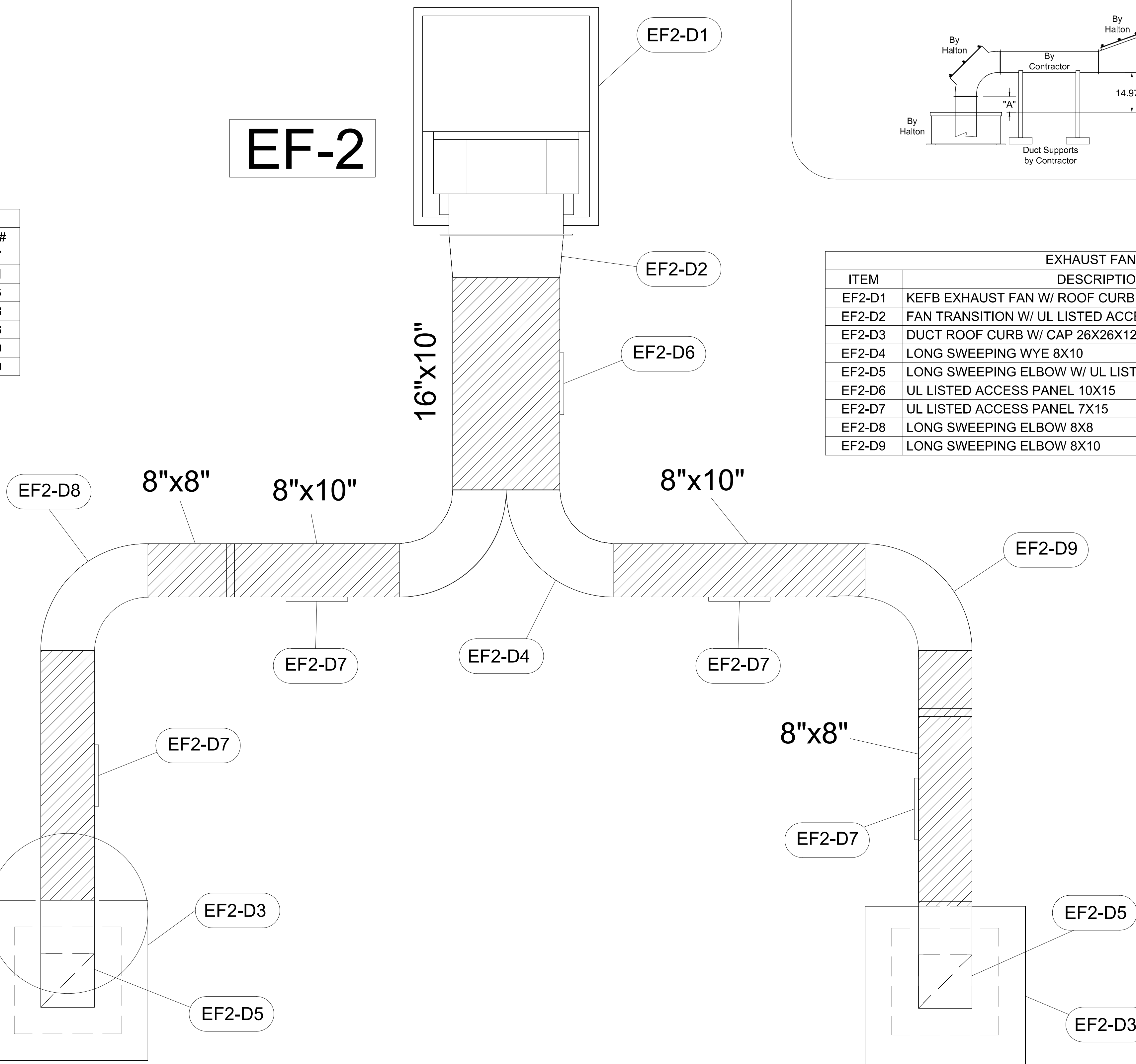


ALL DUCTS AND FITTINGS DEPICTED BY HATCH AREAS ARE BY HVAC CONTRACTOR.

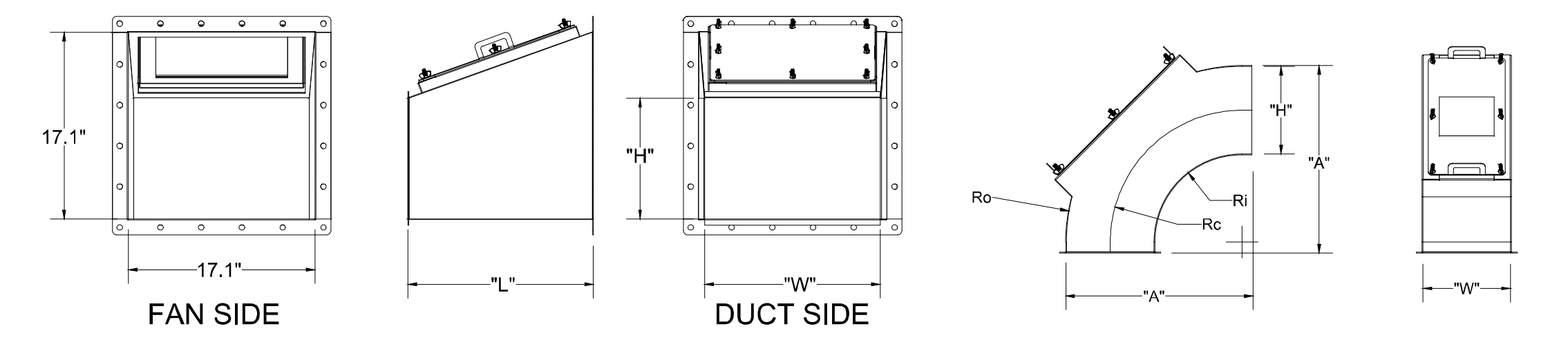
- CONTACT HALTON CUSTOMER SERVICE FOR HALTON PROVIDED ITEMS. ONLY DUCT SECTIONS SPECIFIED BY NUMBERS AND SHOWN IN THE ABOVE CHART ARE PROVIDED BY HALTON.
- ALL OTHER DUCTS AND FITTINGS BY HVAC CONTRACTOR. DUCT SECTIONS PROVIDED BY HVAC CONTRACTOR ARE SHOWN IN ORDER TO DEPICT TOTAL SYSTEM DESIGN. THE UL LISTED ACCESS PANELS PROVIDED BY HALTON MUST BE INSTALLED IN DUCT SECTIONS NOT PROVIDED BY HALTON BY HVAC CONTRACTOR.
- ALL FIELD AND OWNER SUPPLIED EXTERIOR ROOF GREASE DUCT SHALL BY FIELD PAINTED ONCE COMPLETE.
- MATERIAL: 16 GA STEEL WITH ALUMINIZED CORROSION PROTECTION.
- CLEAN, PRIMER AND PAINT PER CHICK-FIL-A SPECIFICATIONS.

EXHAUST FAN #1 (EF-1)			
ITEM	DESCRIPTION	QTY	PART #
EF1-D1	KEFB EXHAUST FAN W/ ROOF CURB	1	60437
EF1-D2	FAN TRANSITION W/ UL LISTED ACCESS PANEL 14X16	1	60441
EF1-D3	DUCT ROOF CURB W/ CAP 26X26X12	2	13146
EF1-D4	LONG SWEEPING STRAIGHT WYE 14X8	1	60448
EF1-D5	LONG SWEEPING ELBOW W/ UL LISTED ACCESS PANEL 8X8	1	60443
EF1-D6	LONG SWEEPING ELBOW W/ UL LISTED ACCESS PANEL 14X8	1	60450
EF1-D7	UL LISTED ACCESS PANEL 10X15	1	60440

EF-2

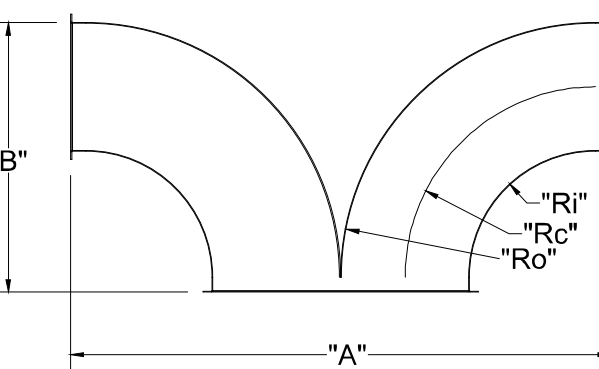
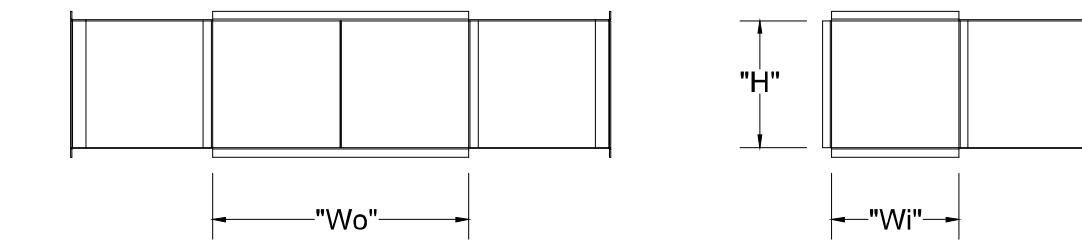


EXHAUST FAN #2 (EF-2)			
ITEM	DESCRIPTION	QTY	PART #
EF2-D1	KEFB EXHAUST FAN W/ ROOF CURB	1	60437
EF2-D2	FAN TRANSITION W/ UL LISTED ACCESS PANEL 10X16	1	60442
EF2-D3	DUCT ROOF CURB W/ CAP 26X26X12	2	13146
EF2-D4	LONG SWEEPING WYE 8X10	1	60447
EF2-D5	LONG SWEEPING ELBOW W/ UL LISTED ACCESS PANEL 8X8	2	60443
EF2-D6	UL LISTED ACCESS PANEL 10X15	1	60440
EF2-D7	UL LISTED ACCESS PANEL 7X15	4	60438
EF2-D8	LONG SWEEPING ELBOW 8X8	1	60445
EF2-D9	LONG SWEEPING ELBOW 8X10	1	60446

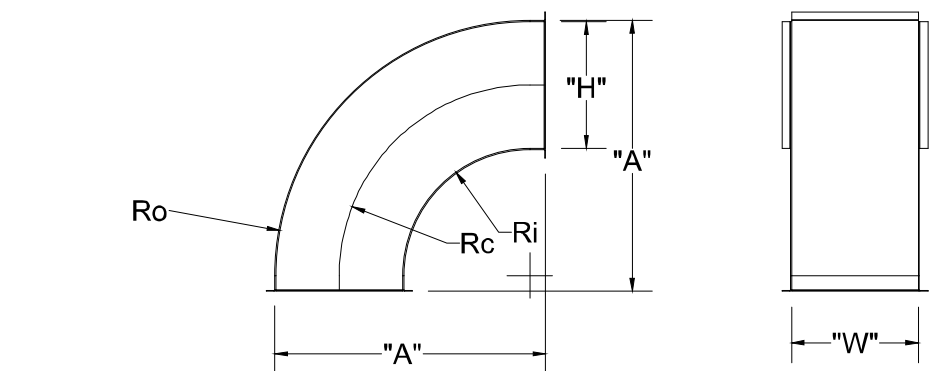


TRANSITION	"H"	"W"	"L"
EF-1 (5)	14	16	17
EF-2 (6)	10	16	17

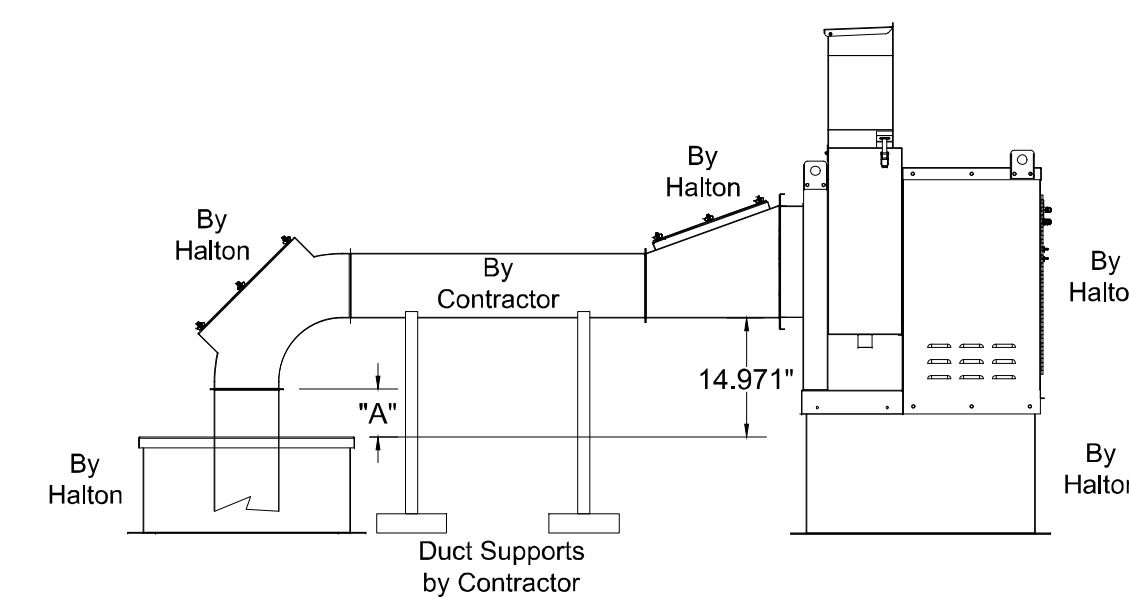
QTY	"H"	"W"	"A"	Ro	Rc	Ri
EF-1	1	14	8	29	28	21
EF-1	1	8	8	17	16	12
EF-2	2	8	8	17	16	12



"W"	"H"	Wo	Ro	Rc	Ri	"A"	"B"
EF-1	8	14	16	16	12	8	34
EF-2	8	10	16	16	12	8	34

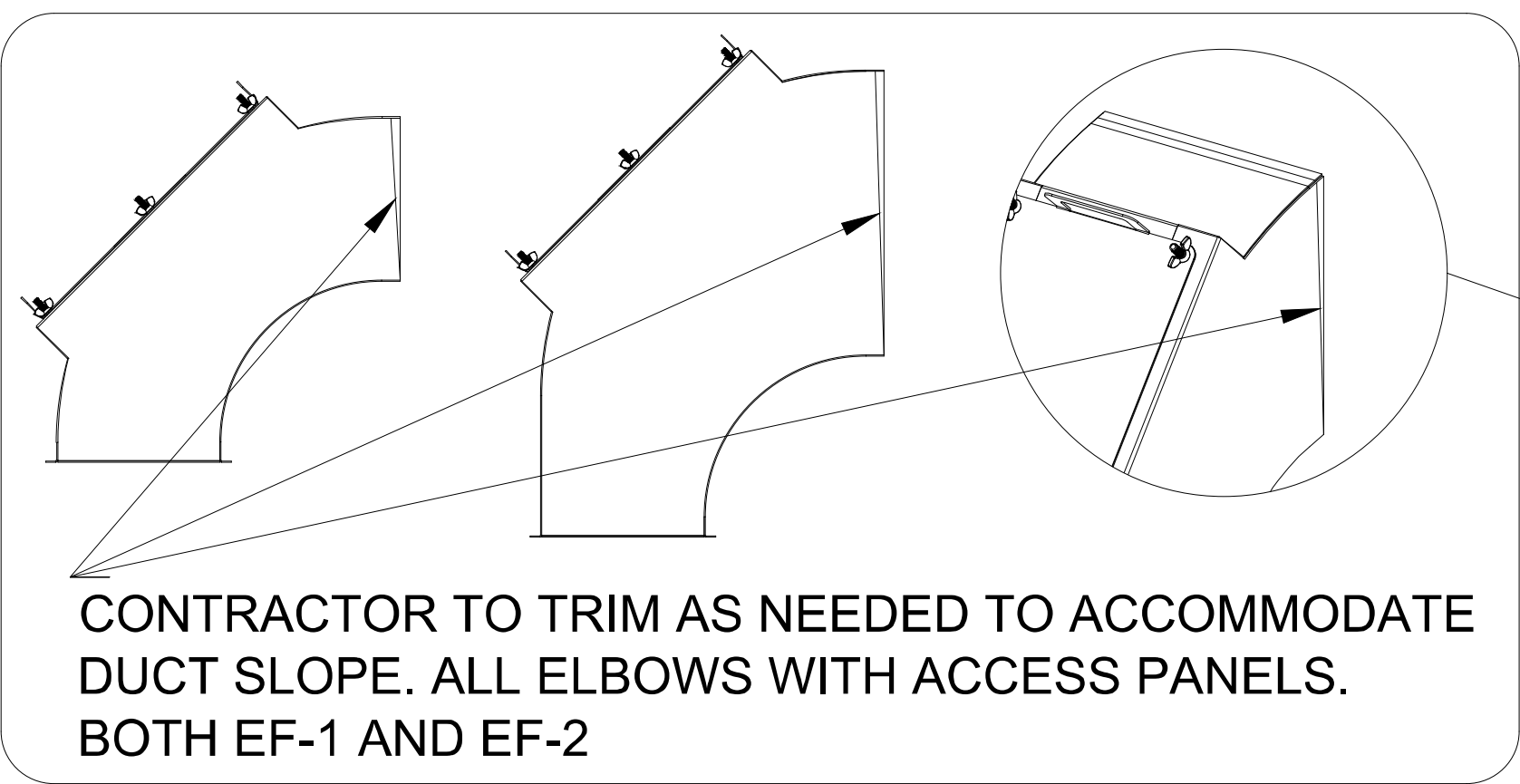


"H"	"W"	"A"	Ro	Rc	Ri
EF-2	8	8	17	16	12
EF-2	8	10	17	16	12



"A" DISTANCE AVAILABLE FOR DUCT SLOPE

	ELBOW	"A"
EF-1	14X8	8
EF-2	8X8	10



CONTRACTOR TO TRIM AS NEEDED TO ACCOMMODATE DUCT SLOPE. ALL ELBOWS WITH ACCESS PANELS. BOTH EF-1 AND EF-2

30-SE-BN

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:

- ALL DIMENSIONAL INFORMATION: MOUNTING POSITIONS
- FIELD LOCATION AND TYPE OF COOKING EQUIPMENT.

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APPROVED FOR FABRICATION:  WITH CHANGES AS NOTED  WITH NO CHANGES

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

WEBSITE: www.halton.com

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

<p>HALTON CO. (USA) 101 INDUSTRIAL DRIVE SCOTTSDALE, KY 42164 1-270-237-9600</p>	<p>HALTON CO. (CANADA) 1021 BREVIK PLACE MISSISSAUGA, ON L4W 3R7 1-905-624-0301</p>
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PROJECT: CHICK-FIL-A #5796 OCEAN SPRINGS FSU

LOCATION: OCEAN SPRINGS, MS

DRAWN BY: SKK DATE: 04.14.25

SCALE: NOT TO SCALE

CONSULTANT: Halton

DRAWING TITLE: CFA FAN DETAILS

DRAWING No.: U25-273

REV. NO.: 1 SHEET NO.: MH-1.5

REV. 1 BY SKK DATE 11.05.25