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 C 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 EXCEPTIONS.

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 SUPPLY AIR AND 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. ANNUCIATOR 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 THAT 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 AABC 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.

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 FYREWRAP. INSULATION ON ACCESS DOORS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTALLATION RECOMMENDATIONS. UNIFRAX FYREWRAP 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.)
S	REMOTE TEMPERATURE SENSOR		SUPPLY DIFFUSER, SQ FACE (TYP.)
H	HUMIDITY SENSOR	1	PLAN NOTE REFERENCE
SD	SMOKE DETECTOR		MANUAL VOLUME DAMPER
12x18	DUCT SIZE (reverse for elevation views) 1ST NUMBER - HORIZONTAL DIMENSION 2ND NUMBER - VERTICAL DIMENSION		DIRECTION OF THROW ON DIFFUSER
			CLOSED AIR PATTERN DEFLECTOR
SW	AIR DOOR SWITCH	IRH#1	INFRARED HEATER (TYP.)
EIH#1	ELECTRIC INFRARED HEATER	B/G	BELOW GRADE
		T	THERMOSTAT

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

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 WILLAIMS PRO INDUSTRIAL DTM ACRYLIC COATING, SEMI-GLOSS, WHITE. DEGREASE AND PRIME BARE METAL SURFACE WITH ONE COAT OF SHERWIN WILLAIMS 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.

CANOPY GENERAL NOTES

1. COORDINATE WORK WITH CONDUIT, STRUCTURE, AND PIPING. FIELD VERIFY CONDITIONS PRIOR TO START OF WORK.
2. COORDINATE LOCATION AND RESPONSIBILITIES FOR UNDERGROUND PIPING AND ASSOCIATED TRENCHING WITH GENERAL CONTRACTOR PRIOR TO START OF WORK.
3. EXPOSED GAS PIPING SHALL BE COVERED WITH A RUST INHIBITING PAINT SUCH AS RUST-OLEUM 5200. PAINT COLOR SHALL MATCH STRUCTURE. ROOF MOUNTED GAS PIPING COLOR SHALL BE YELLOW.
4. CONTROL WIRING FOR HEATERS BY EC. COORDINATE REQUIRED WIRE GAUGE WITH EC. SEE CONTROLS PLAN AND ELECTRICAL DRAWINGS, (TYP.).

6

CODE IDENTIFICATION

BUILDING CODE:	2018 INTERNATIONAL BUILDING CODE,AS AMENDED BY THE STATE OF GEORGIA
MECHANICAL CODE:	2018 INTERNATIONAL MECHANICAL CODE,AS AMENDED BY THE STATE OF GEORGIA
ENERGY CODE:	2015 INTERNATIONAL ENERGY CONSERVATION CODE, AS AMENDED BY THE STATE OF GEORGIA

NOTE:

ALL WORK SHALL COMPLY WITH THE CODE IDENTIFIED ABOVE ALONG WITH ALL OTHER GOVERNING CODES AND ORDINANCES APPLICABLE TO THE SCOPE OF THIS PROJECT.

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GEORGIA REGISTERED No. PE027104 PROFESSIONAL ENGINEER SALVATORE F. SICILIANO

CHICK-FIL-A
MACLAND CROSSING
2005 MACLAND CROSSING CIR SW
MARIETTA, GA 30008

FSR#01169

BUILDING TYPE / SIZE: P14 SE XP
RELEASE: 23.09

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
6	08/04/2025	BID ADD 3

CONSTRUCTION

CONSULTANT PROJECT # C291110
PRINTED FOR CONSTRUCTION
DATE 03/04/2025
DRAWN BY JRH

SHEET
GENERAL NOTES, LEGENDS, SYMBOLS, AND ABBREVIATIONS
SHEET NUMBER
M-001

KEY NOTES

1 10" 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 HALTON 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.

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.N.O. AND ROUTE WIRING BACK TO SUNCOAST TEMP CONTROL PANEL. FOR SENSOR SERVING AC#1, COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT.

47 TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. SEE DETAIL 6/M-501 FOR REQUIRED TRANSITION GEOMETRY. TRANSITION WITHIN CURB WHERE REQUIRED TO AVOID STRUCTURE. WHERE THE DUCT IS SHOWN OFFSET HORIZONTALLY, PROVIDE ELBOW WITHOUT TURNING VANES. FOR DROPS WITH NO HORIZONTAL OFFSET, EXTEND DROP BELOW STRUCTURE TO ACCOMMODATE START COLLARS. TERMINATE DROP A MINIMUM 0'-10" ABOVE CEILING (0'-4" ABOVE CEILING IF REQUIRED TO ACCOMMODATE TAKE-OFF AND DROP IS NOT LOCATED DIRECTLY ABOVE A LIGHT).

48 TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. TRANSITION WITHIN CURB WHERE REQUIRED TO AVOID STRUCTURE. WHERE THE DUCT IS SHOWN OFFSET HORIZONTALLY, PROVIDE ELBOW WITH TURNING VANES. FOR DROPS WITH NO HORIZONTAL OFFSET, EXTEND DROP BELOW STRUCTURE TO ACCOMMODATE START COLLARS. TERMINATE DROP A MINIMUM 0'-10" ABOVE CEILING (0'-4" ABOVE CEILING IF REQUIRED TO ACCOMMODATE TAKE-OFF AND DROP IS NOT LOCATED DIRECTLY ABOVE A LIGHT).

54 SEE ELEVATIONS ON M-201 FOR CJ FAN DUCTING REQUIREMENT.

77 INSTALL LEFT SIDE OF HOOD FLUSH WITH FINISHED EDGE OF PASS-THRU OPENING.

78 INSTALL RIGHT SIDE OF HOOD WITH FINISHED EDGE OF PASS-THRU OPENING.

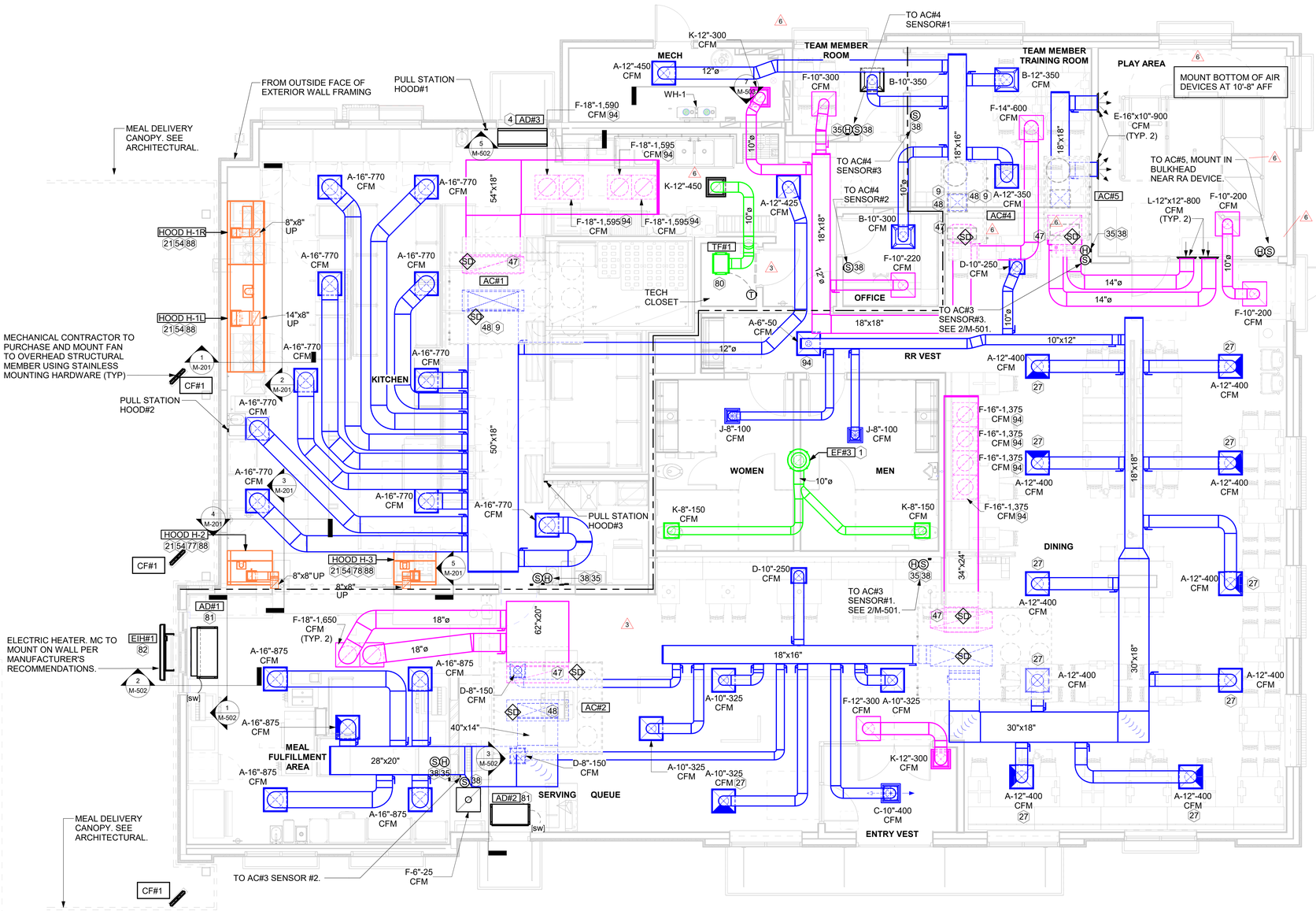
80 CEILING MOUNTED RECIRCULATING FAN. DUCT AND DISCHARGE ABOVE CEILING.

81 MOUNT AIR DOOR IN CEILING. CENTERED ON DRIVE-THRU/MFA DOOR OPENING. REFER TO WIRING DIAGRAM ON SHEET M-702 FOR MORE INFORMATION.

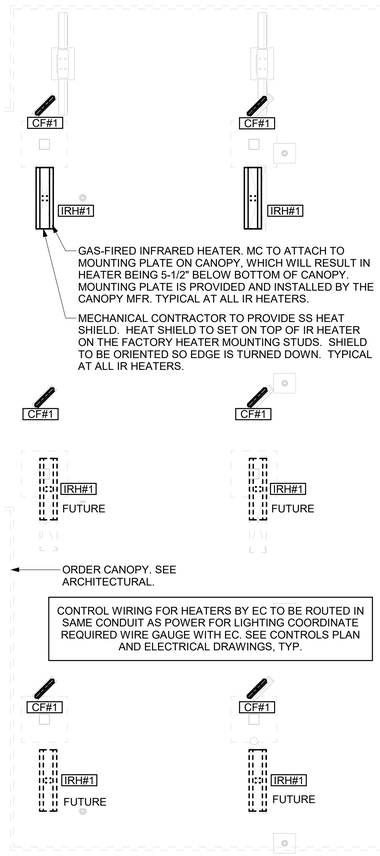
82 ELECTRIC HEATER. MC TO MOUNT ON WALL PER MANUFACTURER'S RECOMMENDATIONS.

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".

94 TAKE OFF WITH DAMPER AT THE BOTTOM OF DUCTWORK, TYP.



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



2 MECHANICAL FLOOR PLAN - ORDER CANOPY
1/4" = 1'-0"

Climate Zone (CZ)	Infrared Heaters
8	Yes
7	Yes
6B	Yes
6A	Yes
5C	Yes
5B	Yes
5A	Yes
4C	No*
4B	Yes
4A	Yes
3C	No*
3B	No*
3A	Yes
2B	No*
2A	No
1B	No
1A	No

*Infrared heaters may be provided at the discretion of the engineer

AIR BALANCE SCHEDULE

MARK	SUPPLY AIR	RETURN AIR	OUTSIDE AIR	EXHAUST AIR	BUILDING POSITIVE PRESSURE
AC#1	8,125	6,325	1,800		
AC#2	4,375	3,475	900		
AC#3	6,800	5,500	1,300		
AC#4	1,800	1,500	300		
AC#5	1,800	1,600	200		
EF#1				1,913	
EF#2				1,1402	
EF#3				300	
TOTALS:	22,900	18,400	4,500	3,615	885.0

NOTES:
- CONTRACTOR SHALL REBALANCE AIR CONDITIONING SYSTEMS TO VALUES LISTED ABOVE.

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Architect No. N/A
Landscape No. N/A

GEORGIA REGISTERED No. PE027104 PROFESSIONAL ENGINEER SALVATORE F. SICILIANO

CHICK-FIL-A
MACLAND CROSSING
2005 MACLAND CROSSING CIR SW
MARIETTA, GA 30008

FSR#01169

BUILDING TYPE / SIZE: P14 SE XP
RELEASE: 23.09

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
3	03/03/2025	PERMIT REV 3
6	08/04/2025	BID ADD 3

CONSTRUCTION

CONSULTANT PROJECT # C291110
PRINTED FOR CONSTRUCTION
DATE 03/04/2025
DRAWN BY JRH

SHEET
EQUIPMENT AND DUCTWORK PLAN - LENNOX
SHEET NUMBER
M-101L

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 FABRICATE DISCHARGE AIR NOZZLE. VERIFY EXHAUST TERMINATION IS A MINIMUM 10'-0" FROM PARAPETS AND OUTSIDE AIR INTAKES. REFER TO MH-1.4 AND MH-1.5 FOR DETAILS. △6

19 1-1/2" GAS BELOW GRADE TO ORDER CANOPY, SEE DETAIL 2 THIS SHEET.

20 GREASE EXHAUST DUCT LOCATED ON ROOF SHALL SLOPE ¼"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 3/P-502 FOR MORE INFORMATION ON CONSTRUCTION AND PENETRATION. WHEN CONTRACTOR OPTS TO PROVIDE ALTERNATIVE WATER-HEATER, INCREASE PIPE SIZE AS NEEDED PER CODE.

55 SEE ARCHITECTURAL DETAILS FOR ROOFTOP PIPE PENETRATIONS.

56 GC SHALL PROVIDE EQUIPMENT STANDS AS MANUFACTURERED 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. △6

84 ROOF CURB FOR DUCT PENETRATION. REFER TO MH-1.4 AND MH-1.5 FOR DETAILS.

85 TURN DOWN THRU ROOF. SEE M-101L/M-101T FOR CONTINUATION.

87 DUCT PENETRATIONS ON ROOF MUST BE AT LEAST 18" FROM ADJACENT PARAPETS.

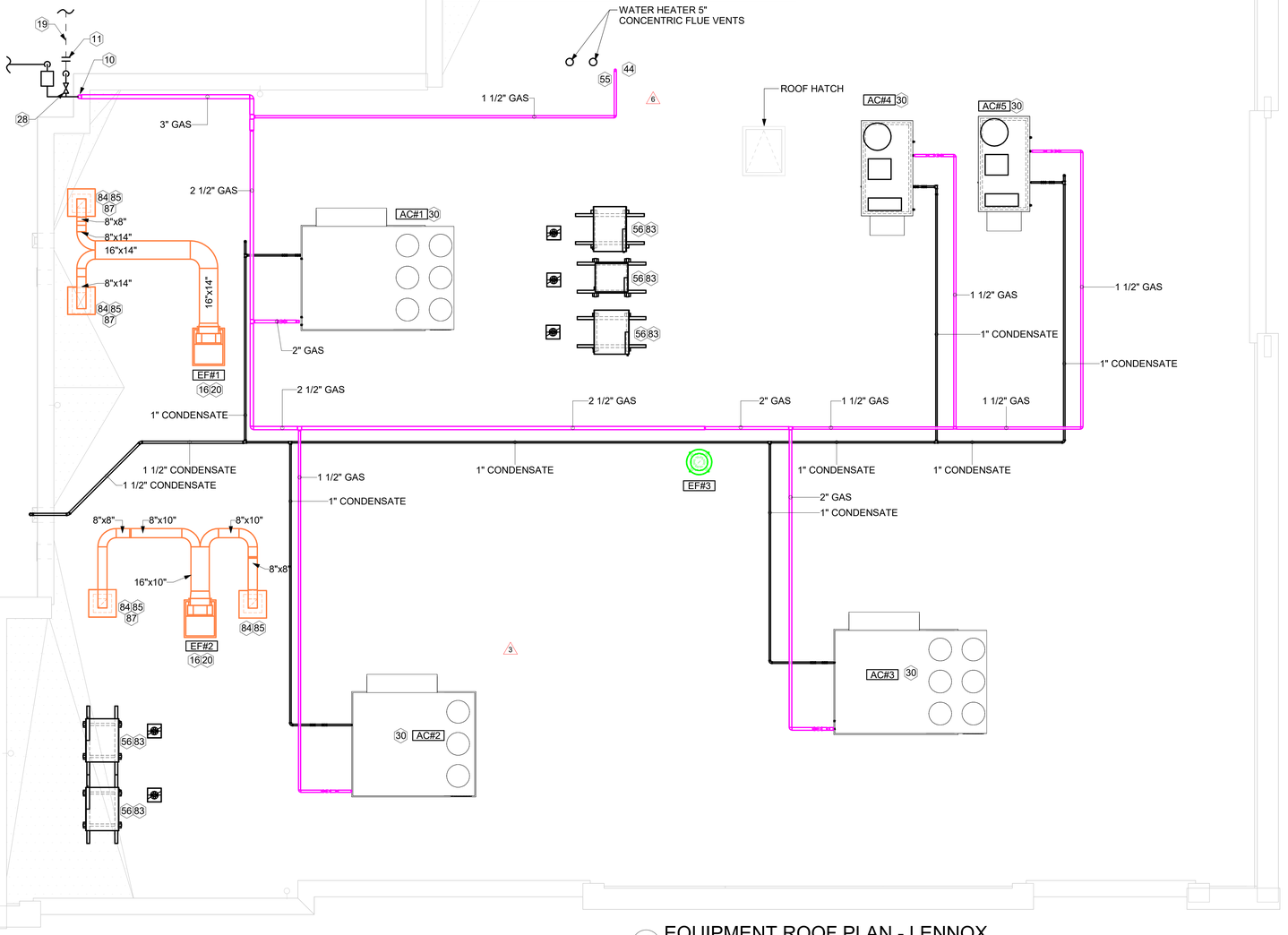
95 GAS PIPING TO BE ROUTED ABOVE CANOPY, ON TOP OF STRUCTURAL MEMBERS, EXCEPT WHERE ROUTED DOWN THROUGH PENETRATIONS AS INDICATED.

96 GAS PIPING DOWN THROUGH DECK. WEATHERPROOF DECK PENETRATION PER DETAIL 6/M-503, TYPICAL.

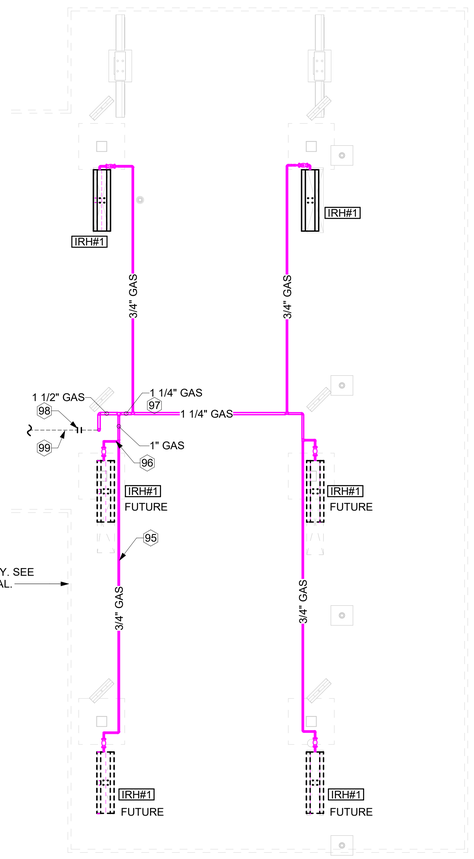
97 SEE DETAIL 1/M-503 FOR PIPING AT IRH, TYPICAL.

98 GAS TRANSITION FITTING TO GAS PIPE STUB-OUT. GAS PIPING INSIDE COLUMN AND STUB-OUTS BY CANOPY MFR. JOIN UNDERGROUND POLYETHYLENE GAS PIPING TO TRANSITION FITTING WITH ELSTER PERMASERT COUPLING. CANOPY MFR'S EXPOSED STEEL PIPING BELOW GRADE SHALL BE PROTECTED WITH TWO COATS ASPHALT TUM BASE PAINT AND POLY SLEEVE.

99 1-1/2" GAS B/G TO METER SEE 1/M-102L. △6



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



2 ORDER CANOPY GAS PIPING PLAN
1/4" = 1'-0"

3. GAS LOAD SCHEDULE

EQUIPMENT	GAS LOAD
AC#1	480,000 BTUS
AC#2	240,000 BTUS
AC#3	480,000 BTUS
AC#4	150,000 BTUS
AC#5	150,000 BTUS
IRH#1 (2 @ 50,000 BTU EA.)	100,000 BTUS
IRH (FUTURE 4 @ 50,000 BTU EA.)	200,000 BTUS
WATER HEATER	398,000 BTUS
TOTAL BASIS OF DESIGN LOAD	1,998,000 BTUS
TOTAL FUTURE CONNECTED LOAD	2,198,000 BTUS
REMARKS:	1. EQUIVALENT TO 2,198.0 CFH 2. 7" W.C. DELIVERY PRESSURE 3. DEVELOPED LENGTH: 186 FT, (METER TO OP CANOPY) 4. GAS PIPING SIZED FOR FUTURE LOAD

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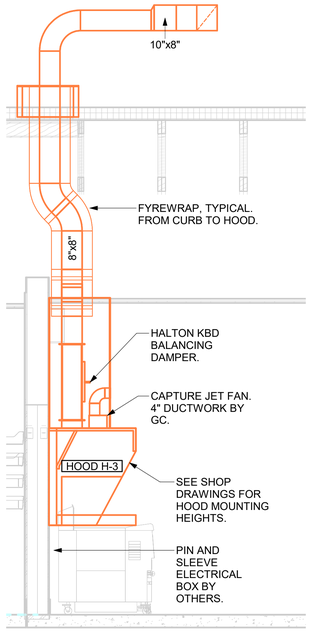
SHEET
EQUIPMENT ROOF PLAN - LENNOX

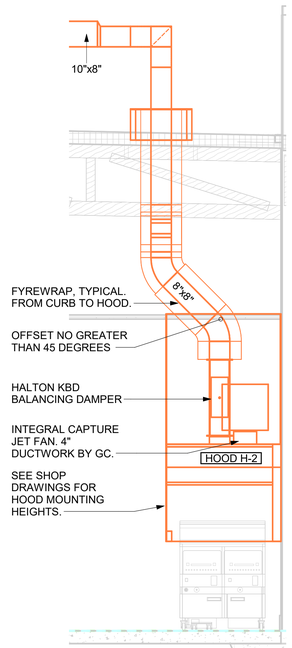
SHEET NUMBER
M-102L

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.

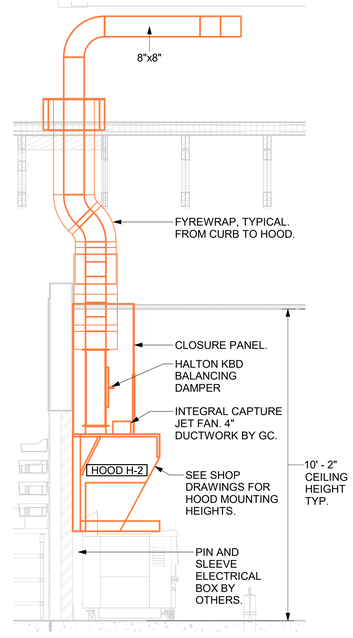
CLEANOUT DOOR NOTE:
DUCT WRAP SHALL BE APPLIED TO THE CLEANOUT DOOR PER THE WRAP MFR'S INSTALLATION INSTRUCTIONS, NO EXCEPTIONS. ALSO, THE CLEANOUT DOOR MUST BE REMOVABLE WITHOUT TOOLS AND MUST BE CLEARLY AND PERMANENTLY LABELED.



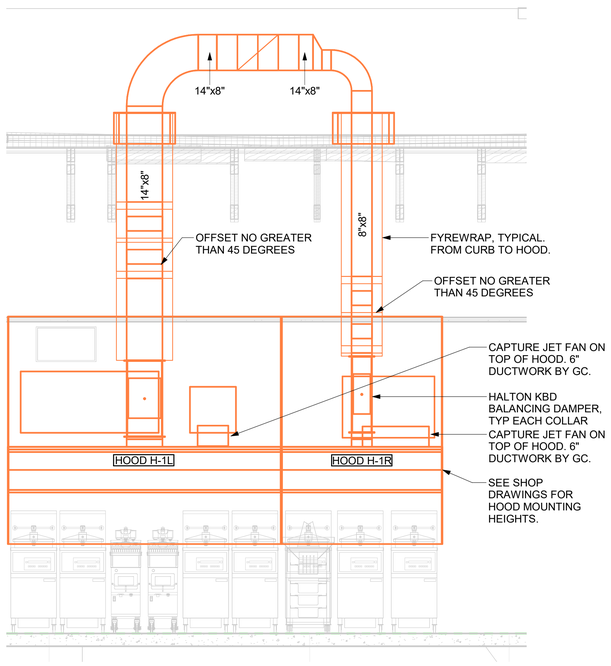
5 HOOD ELEVATION - HOOD#3
NOT TO SCALE



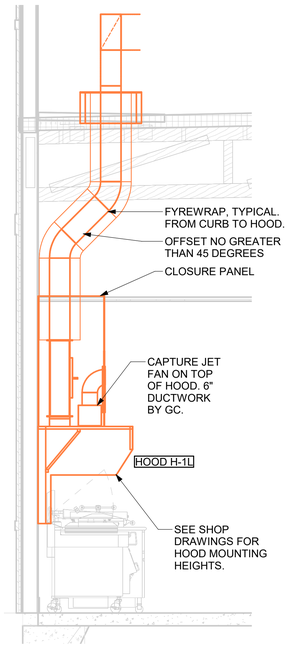
4 HOOD ELEVATION - HOOD#2 - FRONT
NOT TO SCALE



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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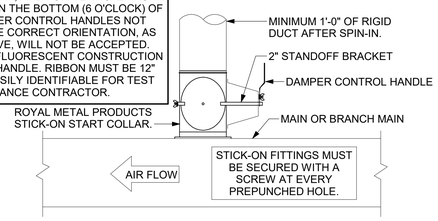
SHEET
EXHAUST HOOD ELEVATIONS

SHEET NUMBER
M-201

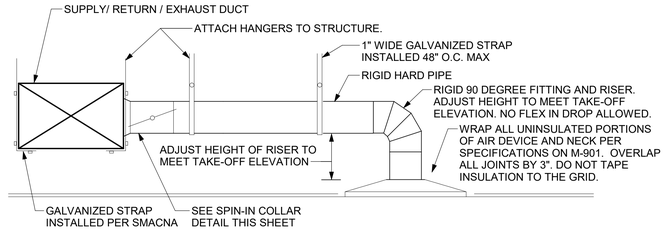
CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE ROYAL METAL PRODUCTS START COLLARS FOR BOTH WITH AND WITHOUT A MANUAL BALANCING DAMPER. THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE ROYAL METAL PRODUCTS START COLLARS DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE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

DAMPER CONTROL HANDLE MUST BE EXPOSED, AND DAMPER SHAFT MUST ALWAYS BE PARALLEL TO AIRFLOW IN DUCT MAIN. AS AN EXAMPLE, FOR HORIZONTAL TRUNK DUCT, HANDLE MUST BE LOCATED ON THE LEFT OR RIGHT (9 OR 3 O'CLOCK) OF COLLAR, AND FOR VERTICAL TRUNK DUCT, LOCATED ON THE BOTTOM (6 O'CLOCK) OF COLLAR. DAMPER CONTROL HANDLES NOT INSTALLED IN THE CORRECT ORIENTATION, AS SPECIFIED ABOVE, WILL NOT BE ACCEPTED. ATTACH YELLOW FLUORESCENT CONSTRUCTION RIBBON TO THE HANDLE. RIBBON MUST BE 12" LONG AND BE EASILY IDENTIFIABLE FOR TEST AND BALANCE CONTRACTOR.

DO NOT APPLY START COLLAR OVER DUCT WRAP



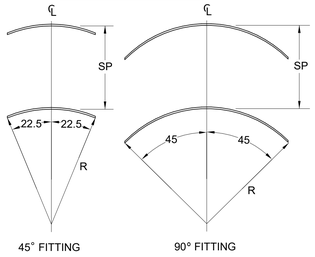
2 START COLLAR
NOT TO SCALE



1 SAG/RAG/GRILLE TAKE-OFF
NOT TO SCALE

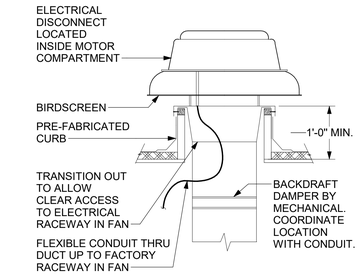
TURNING VANE SCHEDULE		
R	SP	GA
2"	1.5"	24

1. NO TRAILING EDGE.
2. SINGLE THICKNESS CONSTRUCTION.

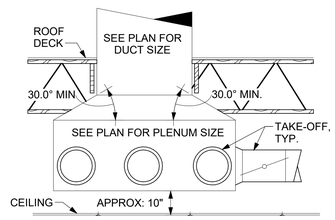


4 TURNING VANES
NOT TO SCALE

SECURE FAN TO CURB WITH SHEET METAL SCREWS (#10 x 1-1/2") 6" O.C. ALL AROUND



3 RESTROOM EXHAUST FAN
NOT TO SCALE



5 RETURN DROP GEOMETRY
NOT TO SCALE

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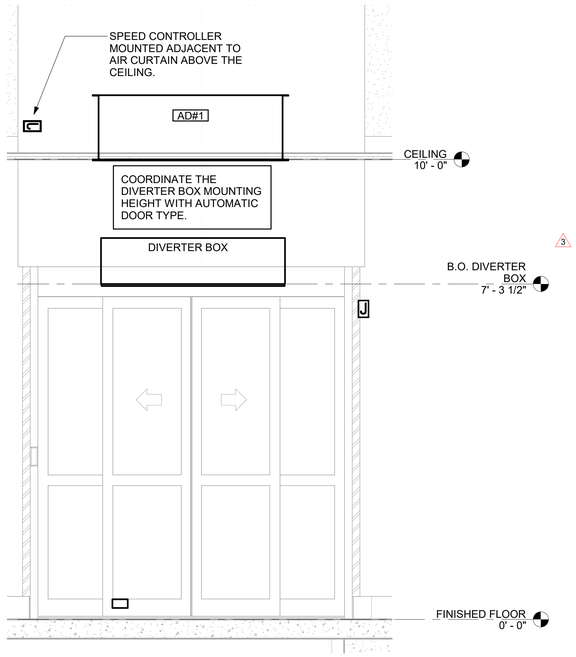
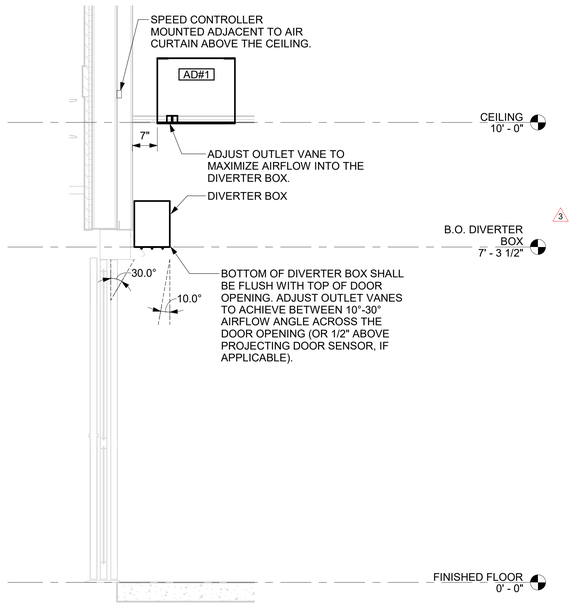
SHEET
DETAILS

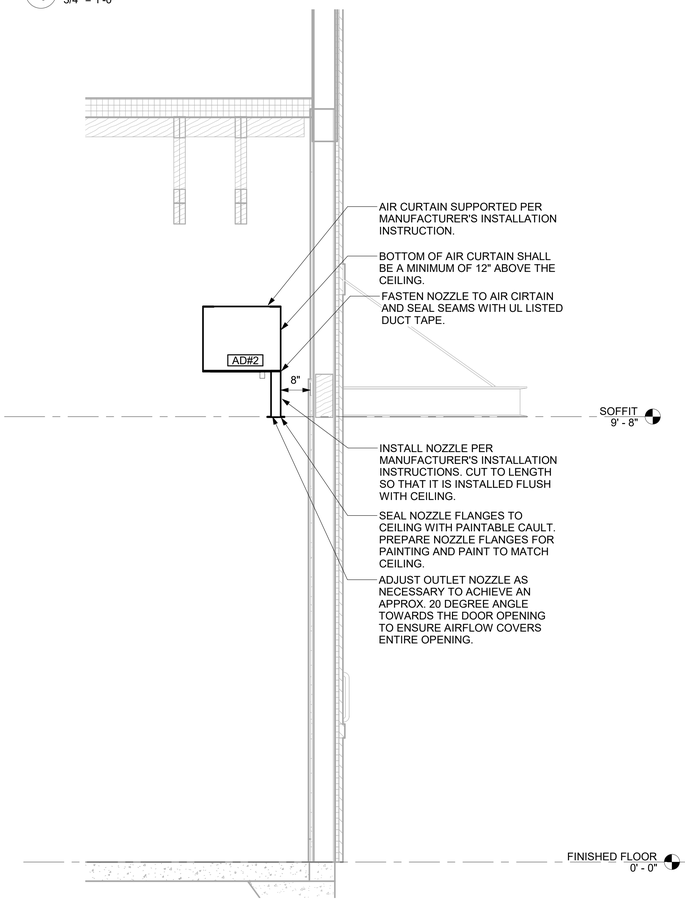
SHEET NUMBER
M-501



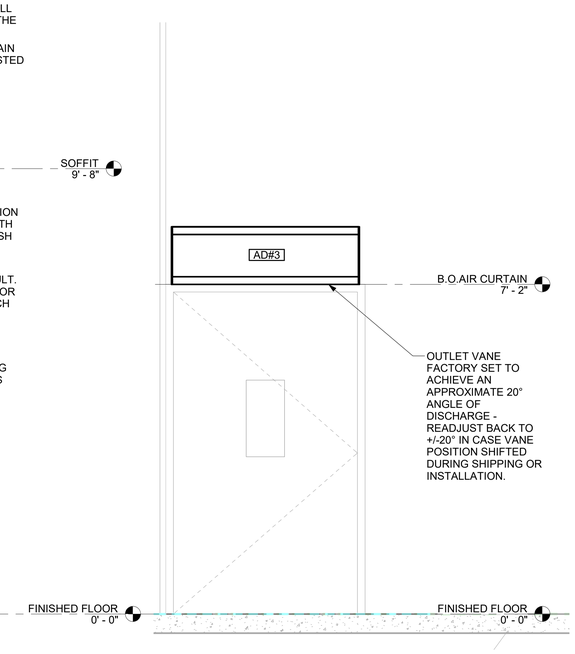
1 AD#1 FRONT VIEW
3/4" = 1'-0"



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



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



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

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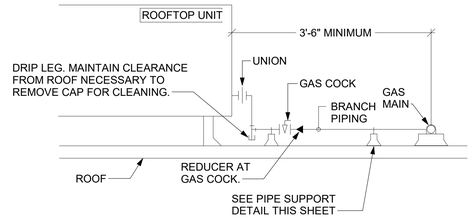
SHEET
DETAILS

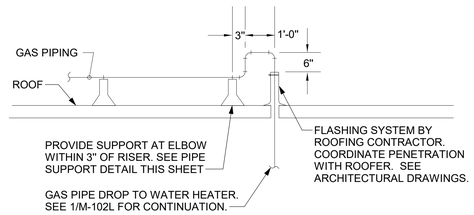
SHEET NUMBER
M-502

NOTES:
1. INSTALL GAS PIPING SUCH THAT HVAC EQUIPMENT ACCESS PANELS AND/OR DOORS ARE IN NO WAY OBSTRUCTED BY PIPING, VALVES, OR SUPPORTS.
2. TO AVOID CONFLICT WITH AC UNIT ACCESS DOORS, INSTALL GAS PIPING NO CLOSER THAN 3'-6" FROM AC UNIT. (EXCEPT FOR BRANCH LINE CONNECTED TO AC UNIT.)
3. ROUTE BRANCH TAKE-OFF DIRECTLY FROM MAIN TO ROOFTOP UNIT AS SHOWN ON PLAN AND DETAILS WITHOUT LATERAL OFFSETS WHICH MAY OBSTRUCT UNIT ACCESS DOORS.



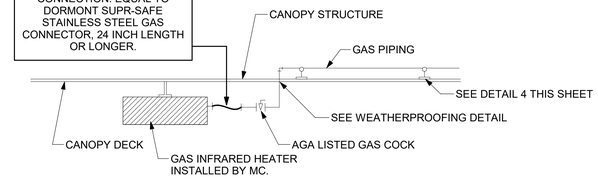
3 GAS PIPING AT RTU
NOT TO SCALE

OFFSET PIPING A MINIMUM OF 6" ABOVE TOP EDGE OF FLASHING.

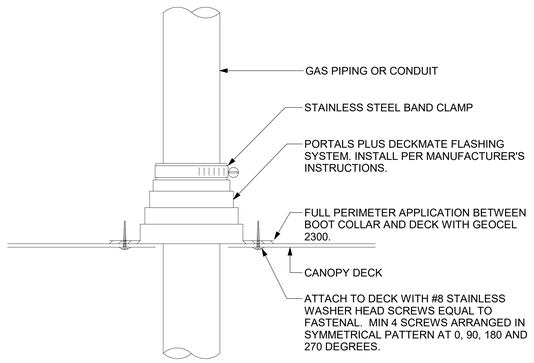


2 GAS PIPE DROP TO WATER HEATER
NOT TO SCALE

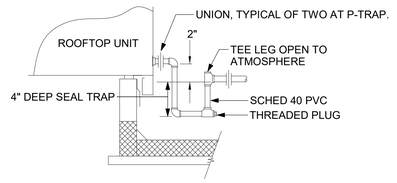
AGA LISTED FLEXIBLE CSST CONNECTION. EQUAL TO DORMONT SUPR-SAFE STAINLESS STEEL GAS CONNECTOR, 24 INCH LENGTH OR LONGER.



1 GAS CONNECTION AT APPLIANCE
NOT TO SCALE

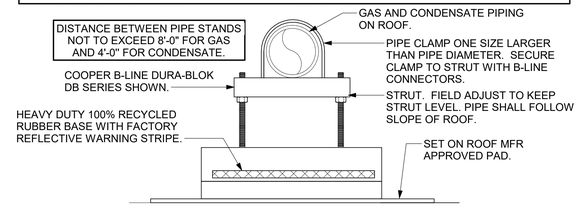


6 WEATHERPROOFING AT CANOPY PENETRATION
NOT TO SCALE

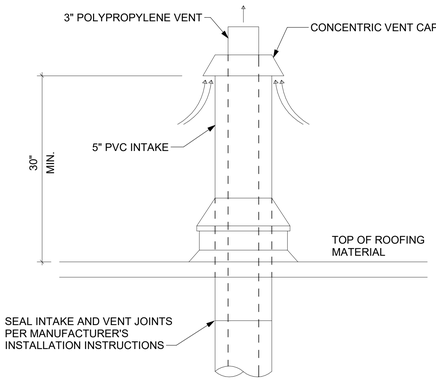


5 CONDENSATE DRAIN PIPING
NOT TO SCALE

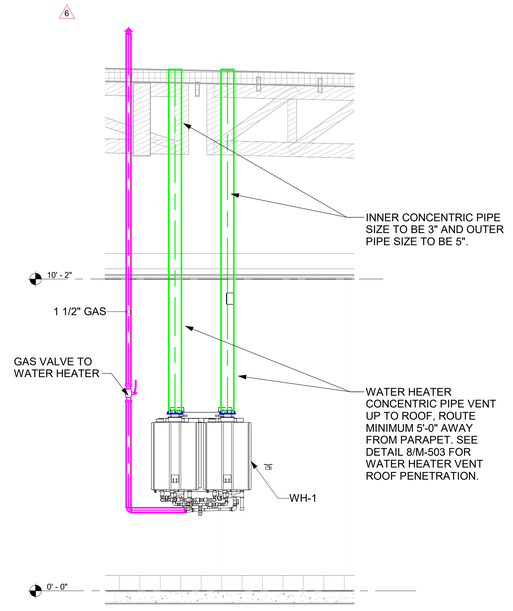
NOTES:
1. NON ADJUSTABLE MODEL DB610 PIPE STAND TO BE USED FOR NON-ELEVATED PIPING INSTALLED FLAT ON ROOF DECK.
2. PROVIDE MODEL DBE 10-8 OR DBE 10-12 OR DBE 10-16 AS NEEDED FOR ELEVATING CONDENSATE PIPING TO MAINTAIN PROPER SLOPE AND FOR GAS PIPING CROSSING OVER CONDENSATE PIPING.
3. ENSURE GAS AND CONDENSATE PIPING DO NOT OBSTRUCT ROOFTOP EQUIPMENT ACCESS OPENINGS. RE-PIPING OF SYSTEMS DUE TO CONFLICTS WITH EQUIPMENT ACCESS OPENINGS SHALL BE DONE AT PLUMBING CONTRACTOR'S EXPENSE.



4 PIPING SUPPORT ON ROOF
NOT TO SCALE



8 WATER HEATER VENT ROOF PENETRATION
NOT TO SCALE



7 WATER HEATER GAS PIPING AND VENTING
NOT TO SCALE

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Architect No. N/A
Landscape No. N/A

GEORGIA REGISTERED No. PE027104 PROFESSIONAL ENGINEER SALVATORE F. SICILIANO

CHICK-FIL-A
MACLAND CROSSING
2005 MACLAND CROSSING CIR SW
MARIETTA, GA 30008

FSR#01169

BUILDING TYPE / SIZE: P14 SE XP
RELEASE: 23.09

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
6	08/04/2025	BID ADD 3

CONSTRUCTION

CONSULTANT PROJECT # C291110
PRINTED FOR CONSTRUCTION
DATE 03/04/2025
DRAWN BY JRH

SHEET DETAILS

SHEET NUMBER **M-503**

ROOFTOP UNIT SCHEDULE - LENNOX

MARK	TOTAL COOLING MBH	SENSIBLE COOLING MBH	HEATING INPUT MBH	HEATING OUTPUT MBH	SUPPLY AIRFLOW (CFM)	OA (CFM)	HP	ESP (in-wg)	EER	IEER/ SEER	VOLTAGE (V)	PHASE	MCA (A)	MOCP (A)	MODEL	MANUFACTURER	REMARKS
AC#1	278.3	210.5	480	389	8,125	1,800	7.5	0.80	10.3	14.5	208	3	137	150	LGT300S4M	LENNOX	1,3,4,5,6,7,8,9,10,12,13,14,15,16,17
AC#2	139.2	101.4	240	194	4,375	900	3	0.80	12.0	15.5	208	3	57	60	LGT156H4M	LENNOX	2,3,4,5,6,7,8,9,10,12,13,14,15,16,17
AC#3	211.5	162.9	480	389	6,800	1,300	7.5	0.80	12.0	16	208	3	99	100	LGT210H4M	LENNOX	1,3,4,5,6,7,8,9,10,12,13,14,15,16,17
AC#4	60.1	44.8	150	121	1,800	300	1.5	0.80	12.7	17.1	208	3	25	35	LGT060H4E	LENNOX	2,3,4,5,6,7,8,9,10,12,13,14,15,16,17
AC#5	61.3	48.2	150	121	1,800	200	1.5	0.80	12.7	17.1	208	3	25	35	LGT060H4E	LENNOX	1,2,3,4,5,6,7,8,9,10,12,13,14,15,16,17

NOTES
- MECHANICAL CONTRACTOR TO VERIFY LENNOX SUBMITTAL WITH CONSTRUCTION DOCUMENTS. NATIONAL ACCOUNT - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004. (6)

REMARKS
1. DIFFERENTIAL ENTHALPY ECONOMIZER WITH POWER EXHAUST.
2. DIFFERENTIAL ENTHALPY ECONOMIZER WITH BAROMETRIC EXHAUST.
3. 14" HIGH ROOF CURB.
4. SEE DETAIL 2/M-701L FOR SETTING OF CONTROL PARAMETERS BY MC.
5. FACTORY INSTALLED 115V GFI SERVICE OUTLET. SEPERATE 115V CIRCUIT PROVIDED BY ELECTRICAL CONTRACTOR.
6. FACTORY INSTALLED RETURN AIR AND SUPPLY AIR SMOKE DETECTOR.
7. FACTORY INSTALLED NON-FUSED DISCONNECT.
8. 2" MERV 8 THROW AWAY FILTERS.
9. HINGED PANELS FOR ACCESS TO FILTER(S), FAN BLOWER & MOTOR, COMPRESSOR(S) ACCESS AND CONTROLS.
10. FACTORY COIL HAIL GUARD, FIELD INSTALLED.
11. NOT USED.
12. HOT GAS DEHUMIDIFICATION OPTION WITH WALL MOUNTED HUMIDITY SENSOR.
13. FACTORY INSTALLED BELT TENSIONER.
14. FACTORY CONFIGURED PHASE LOSS PROTECTION.
15. FACTORY INSTALLED CONDENSATE PAN DRAIN OVERFLOW SWITCH.
16. FACTORY STANDARD STEEL HEAT EXHANGER.
17. 100K SCCR RATING.

FAN SCHEDULE

MARK	FAN CFM	ESP (in-wg)	MOTOR RPM	HP	AREA SERVED	VOLTAGE (V)	PHASE	FLA (A)	MOCP (A)	MODEL	MANUFACTURER	REMARKS
CF#1	1,900	0.01	1,625	0.1	OUTDOOR CANOPY	120 (6)	1	1.1	20	U-18-TE-HD	TPI	20,21,24
EF#1	1,913	0.75	1,331	0.75	HOOD#1	115	1	0	25	KEFB-14-CFA	HALTON	1,2,3,4,5,6,7,8,9,10,11
EF#2	1,402	0.95	1,199	0.75	HOOD#2 & HOOD#3	115	1	0	25	KEFB-14-CFA	HALTON	1,2,3,4,5,6,7,8,9,10,11
EF#3	300	0.375	1,550	0.125	RESTROOMS	120	1	2.2	20	XRED-095-VG	ACCUREX	1,3,11,12,13,14,15,16
TF#1	450	0.3	1,144	0.127	TECH CLOSET	120	1	2.5	0	SP-A510-VG	GREENHECK	1,17,18,19

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

REMARKS
1. FANS SUPPLIED BY HALTON.
2. U.L. 705 LISTED AND LABELED FOR RESTUARANT APPLICATIONS.
3. FACTORY INSTALLED PREWIRED DISCONNECT SWITCH.
4. 19" HIGH ROOF CURB.
5. INSTALL ROOFTOP SOLUTIONS G2 DRIP GUARD. MECHANICAL CONTRACTOR TO CONTACT ROOFTOP SOLUTIONS AT 800-913-7034.
6. FACTORY WEATHER HOUSING W/ HINGED ACCESS DOOR.
7. FACTORY DRAIN CONNECTION.
8. FACTORY BOLTED ACCESS DOOR ON SCROLL.
9. FACTORY INSTALLED BELT DRIVE WITH ADJUSTABLE MOTOR SHEAVE, SPARE BELT, AND BELT TENSIONER.
10. FACTORY INSTALLED OUTLET WITH QUICK RELEASE, HINGED ACCESS, AND GRAVITY BACKDRAFT DAMPER.
11. INTEGRAL THERMAL OVERLOAD.
12. BIRDSCREEN.
13. BACKDRAFT DAMPER IN DUCT BY MECHANICAL CONTRACTOR AS SHOWN ON 5/M-501.
14. STARTER BY ELECTRICAL CONTRACTOR. INTERLOCK WITH LIGHTS BY ELECTRICAL CONTRACTOR.
15. 12" HIGH CURB.
16. FACTORY INSTALLED AND WIRED SPEED CONTROLLER.
17. PROVIDE NEMA 1 PREWIRED DISCONNECT.
18. INTEGRAL POTENTIOMETER ON FAN MOTOR. SET TO FULL SPEED.
19. PROVIDE THERMOSTAT / TEMPERATURE CONTROLLER. SET TO 76°F.
20. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
21. PROVIDE WITH ON/OFF SWITCH.
22. NOTE NOT USED.
23. NOTE NOT USED.
24. FAN SUPPLIED BY TOM BARROW.

HOOD SCHEDULE

MARK	EXHAUST CFM	SP @ TAB PORT (in-wg)	CAPTURE JET CFM & S.P.	TYPE	COLLAR SIZE	WIDTH	DEPTH	HEIGHT	MANUFACTURER	MODEL	REMARKS
HOOD H-1L	1,204	0.13	80 @ 0.30"	BACKSHELF	14"X8"	107"	37"	38"	HALTON	KVL-2 IC	1, 2, 3, 4, 5, 7, 8, 9, 12, 16, 21, 23
HOOD H-1R	709	0.13	47 @ 0.30"	BACKSHELF	8"X8"	63"	37"	38"	HALTON	KVL-2 IC	1, 2, 3, 5, 7 ,8, 9, 12, 20, 21, 22
HOOD H-2	701	0.3	30 @ 0.29"	BACKSHELF	8"X8"	42"	34"	38"	HALTON	KVL-C-IC	1, 2, 3, 6, 7, 8, 9, 13, 15, 16, 18, 21
HOOD H-3	701	0.3	30 @ 0.29"	BACKSHELF	8"X8"	42"	34"	38"	HALTON	KVL-C-IC	1, 2, 3, 4, 6, 7, 8, 9, 13, 17, 21

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
1. STAINLESS STEEL CONSTRUCTION.
2. PROVIDE FULL HEIGHT SS CLOSURE PANEL WITH ACCESS PANEL IN FRONT LARGE ENOUGH TO REMOVE CAPTURE JET FAN, FIRE SUPPRESSION COMPONENTS, AND/OR TO ACCESS KBD EQUALIZER JACK SCREW.
3. PRE-PIPED FIRE SUPPRESSION SYSTEM.
4. FIRE SUPPRESSION CABINET AND COMPONENTS ABOVE HOOD ON LEFT SIDE.
5. 3" ZERO CLEARANCE TO COMBUSTIBLE BACK SPACER.
6. 3" ZERO CLEARANCE TO COMBUSTIBLE CUSTOM BACK SPACER TO ACCOMMODATE PIN AND SLEEVE ELECTRICAL BOX.
7. EQUIPMENT I.D. LABELS LOCATED ON FRONT LEADING EDGE OF HOOD.
8. FACTORY WALL MOUNTING ANGLE AT TOP OF HOOD.
9. INTEGRAL CAPTURE JET FAN.
10. NOT USED.
11. NOT USED.
12. NOT USED.
13. PIN AND SLEEVE ELECTRICAL BOX (DOUBLE CONNECTION). SEE ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
14. NOT USED.
15. 3" ZERO CLEARANCE TO COMBUSTIBLE RIGHT SIDE SPACER.
16. NOTCHED LEFT END SIDE PANEL.
17. NOTCHED RIGHT END SIDE PANEL.
18. 3"X3" HORIZONTAL AND VERTICAL TRIM ANGLE FOR RIGHT SIDE OF HOOD TO FINISH OFF GAP AT WALL.
19. FULL LEFT END SIDE PANEL.
20. FULL RIGHT END SIDE PANEL.
21. HALTON KBD EQUALIZER.
22. CONTINUOUS CAPTURE INTERNAL LEFT END CUTOUT.
23. CONTINUOUS CAPTURE INTERNAL RIGHT END CUTOUT.

Climate Zone (CZ)	Air Curtain
8	Heated
7	Heated
6B	Heated
6A	Heated
5C	Unheated*
5B	Unheated*
5A	Heated
4C	Unheated
4B	Unheated*
4A	Unheated*
3C	Unheated
3B	Unheated
3A	Unheated
2B	Unheated
2A	Unheated
1B	Unheated
1A	Unheated

*Heat may be provided at the discretion of the engineer

(6) AIR DOOR SCHEDULE

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

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

REMARKS
1. FACTORY PROVIDED, WIRED, AND UNIT MOUNTED SPEED CONTROLLER ABOVE CEILING.
2. FACTORY WIRED DISCONNECT.
3. FACTORY PROVIDED, FIELD INSTALLED BY MC, REMOTE WALL SWITCHES FOR HEATING ON/OFF AND FAN ON/AUTO SWITCH. SEE DETAILS ON M502.
4. FACTORY PROVIDED MAGNETIC DOOR CONTACT WITH FACTORY INSTALLED LOW VOLTAGE CONTROLS LOCATED IN AIR DOOR CABINET.
5. PROVIDE WITH A DIVERTER BOX. PROVIDE WITH MOUNTING BRACKETS PER MANUFACTURER'S RECOMMENDATIONS.
6. PROVIDE WITH NOZZLE EXTENSION, SEE DETAIL 4/M502 .

AIR DEVICE SCHEDULE

MARK	DESCRIPTION	LOCATION	NECK SIZE	FACE SIZE	FRAME TYPE	REMARKS
A	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	DINING/KITCHEN (6)	VARIES	24"x24"	LAY-IN	1,7
B	VARITHERM PLAQUE DIFFUSER	OFFICE/TEAM	VARIES	24"x24"	LAY-IN	1,7,8
C	PRICE MODEL SMCD STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	ENTRY	16"x16"	19"x19"	BEVELLED	1,3,5,6
D	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	DINING	VARIES	16"x16"	SURFACE	1,3,5,6
F	PRICE MODEL 80 EGGCRATE RETURN AIR GRILLE WITH REMOVABLE WHITE CORE, FACTORY FLAT BLACK BACKPAN AND ROUND NECK.	DINING / OFFICE / KITCHEN	VARIES	24"x24"	LAY-IN	1,7
J	PRICE MODEL SMCD STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	RESTROOMS	10"x10"	15"x15"	BEVELLED	1,2,3,5,6
K	PRICE MODEL APDDR ALUMINUM PERFORATED FACE RETURN AIR GRILLE.	RESTROOMS/ ENTRY	14"x14"	<varies>	SURFACE	1,4,5,6
E	PRICE MODEL 22FL DOUBLE DEFLECTION ALUMINUM SIDEWALL SUPPLY GRILLE. FRONT BLADE PARALLEL TO LONG SIDE	PLAY AREA (6)	16"X10"	18"x12"	SURFACE	1
L	PRICE MODEL 21 ALUMINUM SIDEWALL RETURN GRILLE, FRONT BLADE PARALLEL TO LONG SIDE	PLAY AREA	12"X12"	14"x14"	SURFACE	1

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

REMARKS
1. STANDARD OFF WHITE FINISH.
2. PROVIDE MODEL VCS3 NECK DAMPER.
3. SEE DRAWING M-101 FOR THROW.
4. PROVIDE MODEL VCR7 NECK DAMPER ON GRILLES IN RESTROOMS SERVING EXHAUST FAN.
5. PROVIDE BACKPAN. MC TO SEAL JOINTS WITH MASTIC AND INSULATE EXTERNALLY.
6. FIELD INSULATE BACKPAN AS SHOWN ON DETAIL 3/M-501.
7. FACTORY INSULATED R-6 BACKPAN.
8. PROVIDE RELIEF COLLAR ACCESSORY FOR VAV DIFFUSER.

HEATER SCHEDULE

MARK	HEATING INPUT INPUT (kW)	HEATING INPUT INPUT (MBH)	FRAME LENGTH	FRAME WIDTH	FRAME DEPTH	MOUNTING TYPE	VOLTAGE (V)	PHASE	FLA (A)	MOCP (A)	MODEL	MANUFACTURER	REMARKS
EIH#1	6.00	0.0	56"	8.5"	3.5"	WALL BRACKET	208	1	29.0	40	BH0420035	BROMIC (6)	1, 2, 3, 4
IRH#1	0.00	50.0	48"	13.4"	13.4"	BRACKET	120	1	0.4	20	WB50-N7-CM	SPACE-RAY	1, 5, 6, 7

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

REMARKS
1. STAINLESS STEEL LENS WITH BLACK EMISSIVE COATING.
2. PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND.
3. PROVIDE BLACK HEATER WITH HIGH TEMPERATURE COATING, AND MANUFACTURER MOUNTING BRACKETS.
4. PROVIDE BROMIC WALL MOUNTED ELECTRIC HEATER MODEL: BH0420033 FOR 220-240V SITES.
5. STEEL BURNER WITH CERAMIC BURNER TILES.
6. 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.
7. STAINLESS STEEL HEAT SHIELDS PROVIDED BY TOM BARROW COMPANY.

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Plans Prepared By
CPH Consulting, LLC
State of Georgia Licenses:
Engineer No. PEF006331
Surveyor No. LSF000870
Architect No. N/A
Landscape No. N/A

GEORGIA REGISTERED No. PE027104 PROFESSIONAL ENGINEER SALVATORE F. SICILIANO

CHICK-FIL-A
MACLAND CROSSING

2005 MACLAND CROSSING CIR SW
MARIETTA, GA 30008

FSR#01169

BUILDING TYPE / SIZE: P14 SE XP
RELEASE: 23.09

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
6	08/04/2025	BID ADD 3

CONSTRUCTION

CONSULTANT PROJECT # C291110
PRINTED FOR CONSTRUCTION
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DRAWN BY JRH

SHEET
EQUIPMENT SCHEDULES - LENNOX

SHEET NUMBER
M-601L

VENTILATION SCHEDULE

General			Ventilation													Exhaust							
			People				Area									Area		Toilet				Served by	
Room #	Room Name	Area A_z ft^2	Occupant Density People/1,000 ft^2	Occupants People P_z	Outdoor Airflow Rate CFM/Person R_p	Outdoor Airflow CFM $P_z \times R_p$	Outdoor Airflow Rate CFM/ft^2 R_a	Outdoor Airflow CFM $A_z \times R_a$	Breathing Zone Outdoor Airflow CFM V_{bz}	Zone Air Distribution Effectiveness E_z	Zone Outdoor Airflow CFM V_{oz}	Primary Zone Airflow CFM V_{pz}	Primary Outdoor Air Fraction Z_p	Actual Outdoor Airflow CFM	Required Exhaust Rate CFM/ft^2	Total Required Exhaust CFM	Exhaust Control/ Operation	Fixture Exhaust Rate CFM/Fixture	Required Fixture Exhaust CFM	Actual Exhaust CFM	Supply	Exhaust
1	Kitchen	1,060	20	22	7.5	165	0.12	127	292	0.8	366	7,700	0.05	1,658	1	742	-	-	-	3,315	AC#1 / ALT AC#1	EF-1 / EF-2
2	Kitchen (Dish Washing)	161	15	3	7.5	23	0.18	29	51	0.8	65	425	0.15	92	-	-	-	-	-	-	AC#1 / ALT AC#1	-
	Total Area	1,221							Total V_{bz}	344	Total Supply Airflow		8,125		1,750	Actual Outdoor Airflow						
									Diversity (D)	0.80	Maximum Zp		0.15									
									Uncorrected Outdoor Air Intake (V_{ou})	312	System Ventilation Efficiency (E_v)		0.90									
									Required Outdoor Air Intake (CFM)	347												

VENTILATION SCHEDULE

General			Ventilation													Exhaust							
			People				Area									Area		Toilet				Served by	
Room #	Room Name	Area A_z ft^2	Occupant Density People/1,000 ft^2	Occupants People P_z	Outdoor Airflow Rate CFM/Person R_p	Outdoor Airflow CFM $P_z \times R_p$	Outdoor Airflow Rate CFM/ft^2 R_a	Outdoor Airflow CFM $A_z \times R_a$	Breathing Zone Outdoor Airflow CFM V_{bz}	Zone Air Distribution Effectiveness E_z	Zone Outdoor Airflow CFM V_{oz}	Primary Zone Airflow CFM V_{pz}	Primary Outdoor Air Fraction Z_p	Actual Outdoor Airflow CFM	Required Exhaust Rate CFM/ft^2	Total Required Exhaust CFM	Exhaust Control/ Operation	Fixture Exhaust Rate CFM/Fixture	Required Fixture Exhaust CFM	Actual Exhaust CFM	Supply	Exhaust
5	Meal Fulfillment Area	453	15	7	7.5	52.5	0.18	82	134	0.8	168	4,375	0.04	1,075	-	-	-	-	-	-	AC#2 / ALT AC#2	-
	Total Area	453							Total V_{bz}	134	Total Supply Airflow		4,375		1,075	Actual Outdoor Airflow						
									Diversity (D)	1.00	Maximum Zp		0.03									
									Uncorrected Outdoor Air Intake (V_{ou})	134	System Ventilation Efficiency (E_v)		1.00									

VENTILATION SCHEDULE

General			Ventilation													Exhaust							
			People				Area									Area		Toilet				Served by	
Room #	Room Name	Area A_z ft^2	Occupant Density People/1,000 ft^2	Occupants People P_z	Outdoor Airflow Rate CFM/Person R_p	Outdoor Airflow CFM $P_z \times R_p$	Outdoor Airflow Rate CFM/ft^2 R_a	Outdoor Airflow CFM $A_z \times R_a$	Breathing Zone Outdoor Airflow CFM V_{bz}	Zone Air Distribution Effectiveness E_z	Zone Outdoor Airflow CFM V_{oz}	Primary Zone Airflow CFM V_{pz}	Primary Outdoor Air Fraction Z_p	Actual Outdoor Airflow CFM	Required Exhaust Rate CFM/ft^2	Total Required Exhaust CFM	Exhaust Control/ Operation	Fixture Exhaust Rate CFM/Fixture	Required Fixture Exhaust CFM	Actual Exhaust CFM	Supply	Exhaust
1	Dining	1,665	70	117	7.5	877.5	0.18	300	1177	0.8	1472	5,250	0.280	1,154	-	-	-	-	-	-	AC#3 / ALT AC#3	-
2	Serving	300	15	5	7.5	38	0.18	54	92	0.8	115	500	0.23	110	-	-	-	-	-	-	AC#3 / ALT AC#3	-
3	Men's RR	155	-	-	-	-	-	-	-	0.8	-	100	-	22	-	-	Continuous	50	100	150	AC#3 / ALT AC#3	EF-3
4	Women's RR	156	-	-	-	-	-	-	-	0.8	-	100	-	22	-	-	Continuous	50	100	150	AC#3 / ALT AC#3	EF-3
5	RR Vestibule	100	-	-	-	-	0.06	6	6	0.8	8	50	0.15	11	-	-	-	-	-	-	AC#3 / ALT AC#3	-
6	Exit Vestibule	36	-	-	-	-	0.06	2	2	0.8	3	200	0.01	44	-	-	-	-	-	-	AC#3 / ALT AC#3	-
7	Entry Vestibule	77	-	-	-	-	0.06	5	5	0.8	6	400	0.01	88	-	-	-	-	-	-	AC#3 / ALT AC#3	-
	Total Area	2,489							Total V_{bz}	1,281	Total Supply Airflow		6,600		1,451	Actual Outdoor Airflow						
									Diversity (D)	0.81	Maximum Zp		0.280									
									Uncorrected Outdoor Air Intake (V_{ou})	1,212	System Ventilation Efficiency (E_v)		0.80									
									Required Outdoor Air Intake (CFM)	1,515												

VENTILATION SCHEDULE

General			Ventilation													Exhaust							
			People				Area									Area		Toilet				Served by	
Room #	Room Name	Area A_z ft^2	Occupant Density People/1,000 ft^2	Occupants People P_z	Outdoor Airflow Rate CFM/Person R_p	Outdoor Airflow CFM $P_z \times R_p$	Outdoor Airflow Rate CFM/ft^2 R_a	Outdoor Airflow CFM $A_z \times R_a$	Breathing Zone Outdoor Airflow CFM V_{bz}	Zone Air Distribution Effectiveness E_z	Zone Outdoor Airflow CFM V_{oz}	Primary Zone Airflow CFM V_{pz}	Primary Outdoor Air Fraction Z_p	Actual Outdoor Airflow CFM	Required Exhaust Rate CFM/ft^2	Total Required Exhaust CFM	Exhaust Control/ Operation	Fixture Exhaust Rate CFM/Fixture	Required Fixture Exhaust CFM	Actual Exhaust CFM	Supply	Exhaust
1	Employee RR	62	-	-	-	-	-	-	-	0.8	-	40	-	10	-	-	Intermittent	70	70	75	AC#4 / ALT AC#4	EF-4
2	Service	122	-	-	-	-	0.12	15	15	0.8	19	385	0.05	94	-	-	-	-	-	-	AC#4 / ALT AC#4	-
3	Team Member Room	171	50	9	5	45	0.06	10	55	0.8	70	700	0.10	170	-	-	-	-	-	-	AC#4 / ALT AC#4	-
4	Office	70	5	1	5	5	0.06	4	9	0.8	12	200	0.06	49	-	-	-	-	-	-	AC#4 / ALT AC#4	-
5	Riser Room	107	-	-	-	-	0.12	13	13	0.8	17	425	0.04	103	-	-	-	-	-	-	AC#4 / ALT AC#4	-
	Total Area	532							Total V_{bz}	92	Total Supply Airflow		1,750		425	Actual Outdoor Airflow						
									Diversity (D)	0.90	Maximum Zp		0.09									
									Uncorrected Outdoor Air Intake (V_{ou})	88	System Ventilation Efficiency (E_v)		1.00									
									Required Outdoor Air Intake (CFM)	87												

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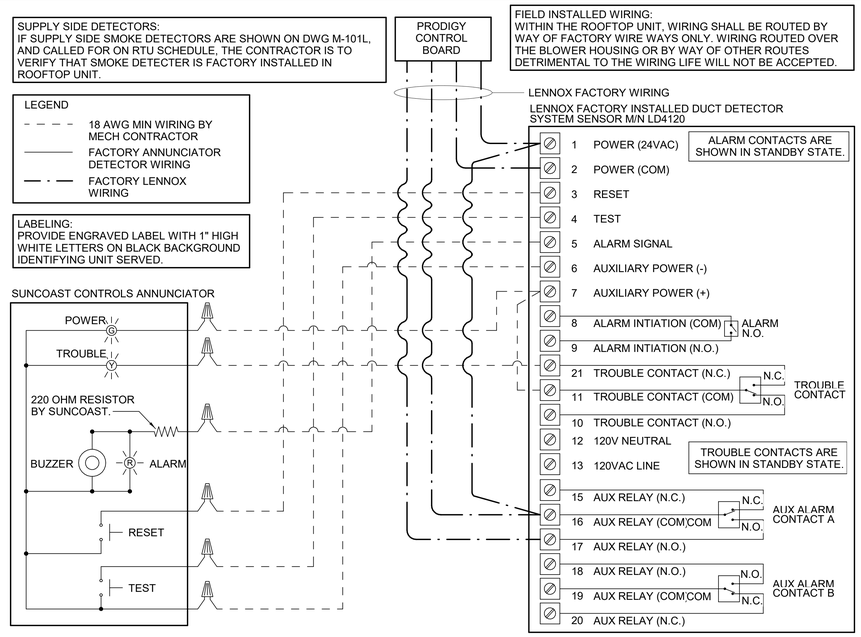
SHEET
VENTILATION SCHEDULES

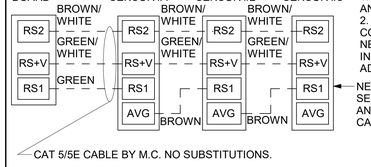
SHEET NUMBER
M-601

PROVIDE A PROFESSIONALLY LAMINATED COPY OF THESE DETAILS TO BE INSTALLED INSIDE THE ROOFTOP UNIT CONTROL CABINENT. USE A SETON CHART FRAME STYLE # 68624, TELEPHONE NUMBER 800-243-6624, 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.



1 SMOKE DETECTOR AND ANNUNCIATOR WIRING DIAGRAM - LENNOX
NOT TO SCALE

AVERAGING SENSORS (WHERE SHOWN ON PLANS)



NOTES:
1. SEE DWG M-101 FOR LOCATION AND ARRANGEMENT OF SENSORS.
2. MULTIPLE AVERAGING SENSORS COUNT AS ONE SENSOR. SEE NETWORK THERMOSTAT NT-URS INSTALLATION MANUAL FOR ADDITIONAL INFORMATION.

NETWORK TSTAT REMOTE TEMP SENSOR PROVIDED BY SUNCOAST AND INSTALLED BY MC. FIELD CALIBRATE EACH SENSOR, TYP.

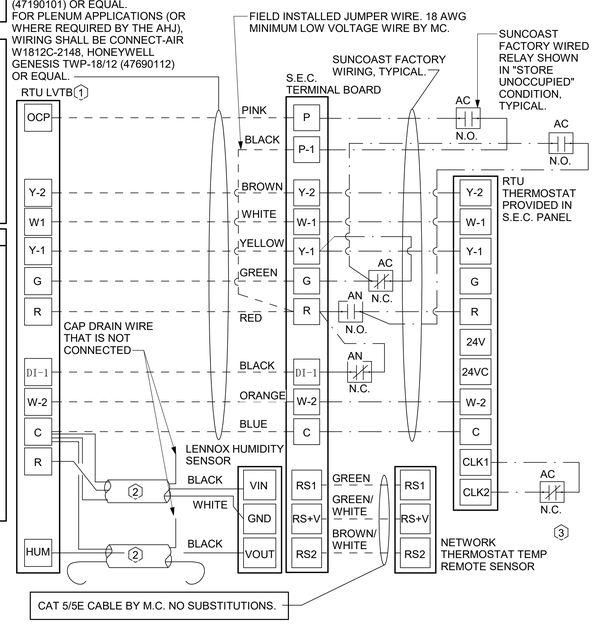
NOTES:
1. MECHANICAL CONTRACTOR SHALL MAKE PLASTIC LAMINATE OF THIS DETAIL AND INSTALL PERMANENTLY ON INSIDE DOOR OF ROOFTOP UNIT CONTROL COMPARTMENT.
2. SEE DETAILS THIS SHEET FOR SMOKE DETECTOR AND ANNUNICIATOR WIRING.
3. SET ALL THERMOSTATS FOR AUTO CHANGEOVER.
4. PROVIDE PLASTIC ENGRAVED LABEL AT ALL NEW SENSORS WITH 1/4" HIGH WHITE LETTERING ON BLACK BACKGROUND, I.E. "AC#2 HUMIDITY SENSOR" OR "AC#2 TEMP SENSOR". PLACE LABELS ON WALL ADJACENT TO DEVICE, DO NOT APPLY DIRECTLY TO DEVICE.

KEYED NOTES:
1. LOW VOLTAGE WIRING TO RTU TO BE ROUTED TO UNIT THRU FACTORY WIREWAY.
2. HUMIDITROL UNITS ONLY: WIRING TO HUMIDITY SENSOR TO BE MADE WITH SINGLE 18/2 SENSOR CABLE: BELDEN 8760 OR EQUAL.HUMIDITROL INTERFACE TO SET RELATIVE HUMIDITY. SET AT 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 OF CONDUIT. FIELD CALIBRATE EACH SENSOR.

LEGEND

S.E.C.	SUNCOAST ENVIRONMENTAL CONTROLS (SUPPLIER OF TEMP/FAN CONTROL PANEL) LOCATED IN KITCHEN
(1)	KEY NOTE REFERENCE
MC	MECHANICAL CONTRACTOR
(AC)	SUNCOAST RELAY FACTORY INSTALLED AND WIRED IN CFA-500 PANEL, ENERGIZED BY PUTTING STORE SWITCH IN "STORE OCCUPIED" POSITION.
(AN)	SUNCOAST RELAY FACTORY INSTALLED AND WIRED IN CFA-500 PANEL, DENERGIZED WHEN FIRE SUPPRESSION SYSTEM IS ACTIVATED, AS NOTED.
- - -	ALL LOW VOLTAGE CABLING BY MC. ONLY USE CABLE SPECIFIED. NO SUBSTITUTIONS.
— · —	LOW VOLTAGE WIRING BY S.E.C.
———	LINE VOLTAGE BY ELECTRICIAN OR S.E.C.

WIRING SHALL BE SOLID 18 AWG, 12 CONDUCTOR THERMOSTAT WIRE SUCH AS HONEYWELL GENESIS TW-18/12 (47190101) OR EQUAL. FOR PLENUM APPLICATIONS (OR WHERE REQUIRED BY THE AHJ), WIRING SHALL BE CONNECT-AIR W1812C-2148, HONEYWELL GENESIS TWP-18/12 (47690112) OR EQUAL.



2 ROOFTOP UNIT CONTROL WIRING - LENNOX
NOT TO SCALE

LENNOX PRODIGY 2.0 OR CORE UNIT CONTROLLER SETTINGS:
1. FOR ALL RTU'S, ELIMINATE THE MORNING WARMUP/OSA DAMPER DELAY. THE MENU PATH IS:
   - MAIN MENU > SETTIGNS > 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 > SETTIGNS > RTU OPTIONS > DEHUMIDIFIER MODE > NO CONDITIONS

   SELECT LOCAL SENSOR AND SAVE
   - SET POINT: 60%
   - DEHUMID DEADBAND: 2%
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 SHEAVE.

LENNOX FRESH AIR HEATING SETUP WHEN 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" SET FAH SETPOINT TO 66F THIS WILL TEMPER SUPPLY AIR BELOW 66F WITH INTERMITTENT HEATING WHEN THERMOSTAT IS NOT ACTIVELY CALLING FOR HEAT.
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 14 FOR A 14F FAH 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
5200 Buffington Road
Atlanta, Georgia
30349-2998

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Plans Prepared By
CPH Consulting, LLC
State of Georgia Licenses:
Engineer No. PEF006331
Surveyor No. LSF000870
Architect No. N/A
Landscape No. N/A

GEORGIA REGISTERED No. PE027104 PROFESSIONAL ENGINEER SALVATORE F. SICILIANO

CHICK-FIL-A
MACLAND CROSSING
2005 MACLAND CROSSING CIR SW
MARIETTA, GA 30008

FSR#01169

BUILDING TYPE / SIZE: P14 SE XP
RELEASE: 23.09

REVISION SCHEDULE

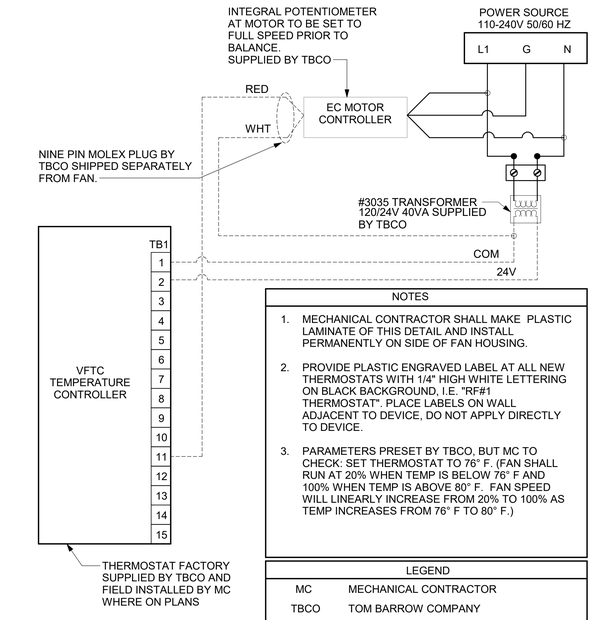
NO.	DATE	DESCRIPTION

CONSTRUCTION

CONSULTANT PROJECT # C291110
PRINTED FOR CONSTRUCTION
DATE 03/04/2025
DRAWN BY JRH

SHEET
CONTROL WIRING DIAGRAMS - LENNOX

SHEET NUMBER
M-701L



NOTES

1. MECHANICAL CONTRACTOR SHALL MAKE PLASTIC LAMINATE OF THIS DETAIL AND INSTALL PERMANENTLY ON SIDE OF FAN HOUSING.
2. PROVIDE PLASTIC ENGRAVED LABEL AT ALL NEW THERMOSTATS WITH 1/4" HIGH WHITE LETTERING ON BLACK BACKGROUND, I.E. "RF#1 THERMOSTAT". PLACE LABELS ON WALL ADJACENT TO DEVICE, DO NOT APPLY DIRECTLY TO DEVICE.
3. PARAMETERS PRESET BY TBCO, BUT MC TO CHECK: SET THERMOSTAT TO 76° F. (FAN SHALL RUN AT 20% WHEN TEMP IS BELOW 76° F AND 100% WHEN TEMP IS ABOVE 80° F. FAN SPEED WILL LINEARLY INCREASE FROM 20% TO 100% AS TEMP INCREASES FROM 76° F TO 80° F.)

LEGEND

MC	MECHANICAL CONTRACTOR
TBCO	TOM BARROW COMPANY
- - - -	18 AWG MIN LOW VOLTAGE WIRING BY MC.
———	LINE VOLTAGE BY ELECTRICAL CONTACTOR

1 TECH CLOSET CONTROL DIAGRAM

NOT TO SCALE

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CHICK-FIL-A
MACLAND CROSSING

2005 MACLAND CROSSING CIR SW
MARIETTA, GA 30008

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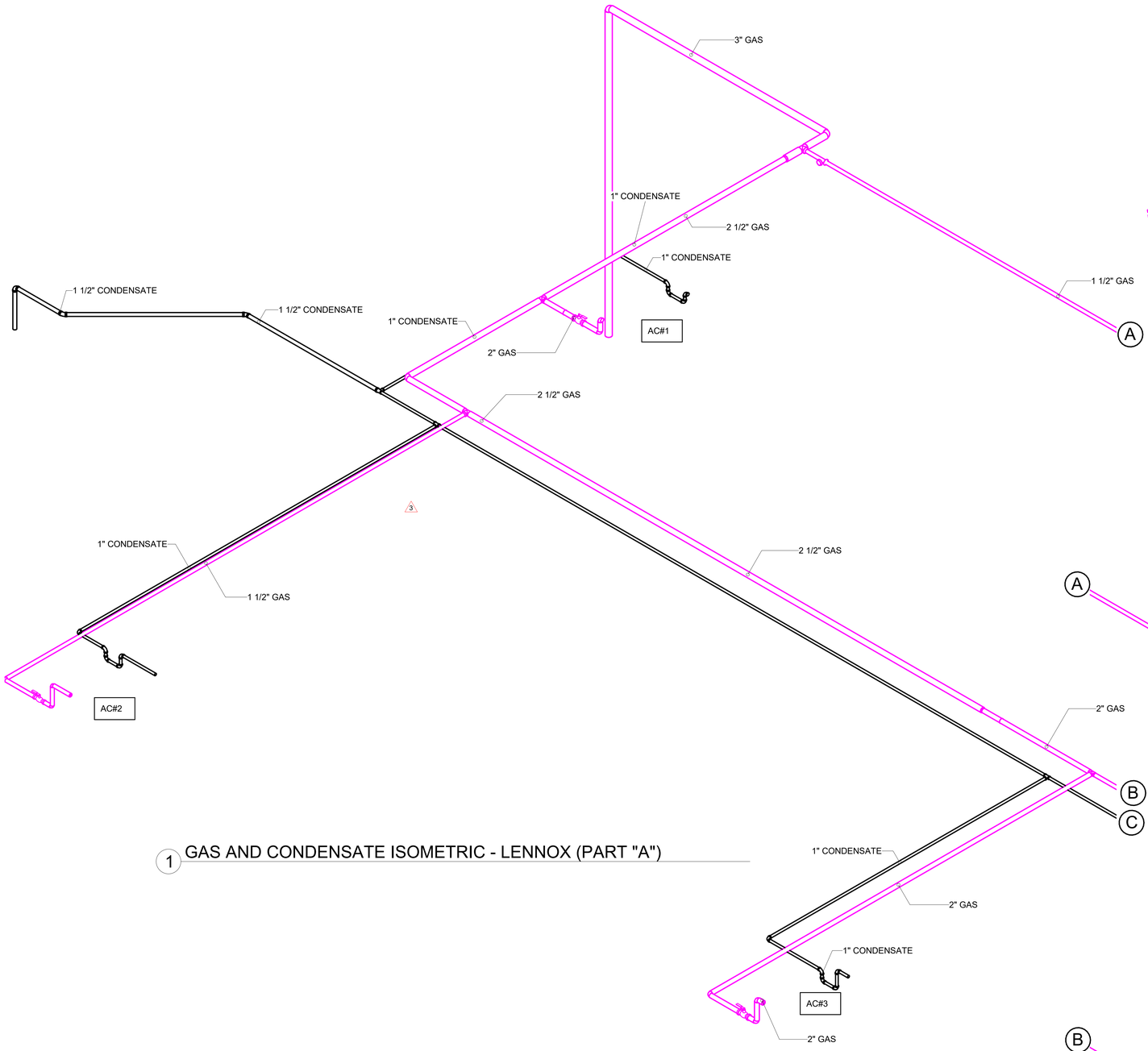
CONSTRUCTION

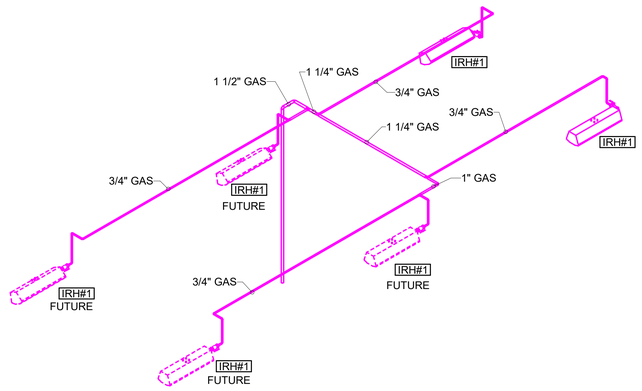
CONSULTANT PROJECT # C291110
PRINTED FOR CONSTRUCTION
DATE 03/04/2025
DRAWN BY JRH

SHEET
CONTROL WIRING DIAGRAMS

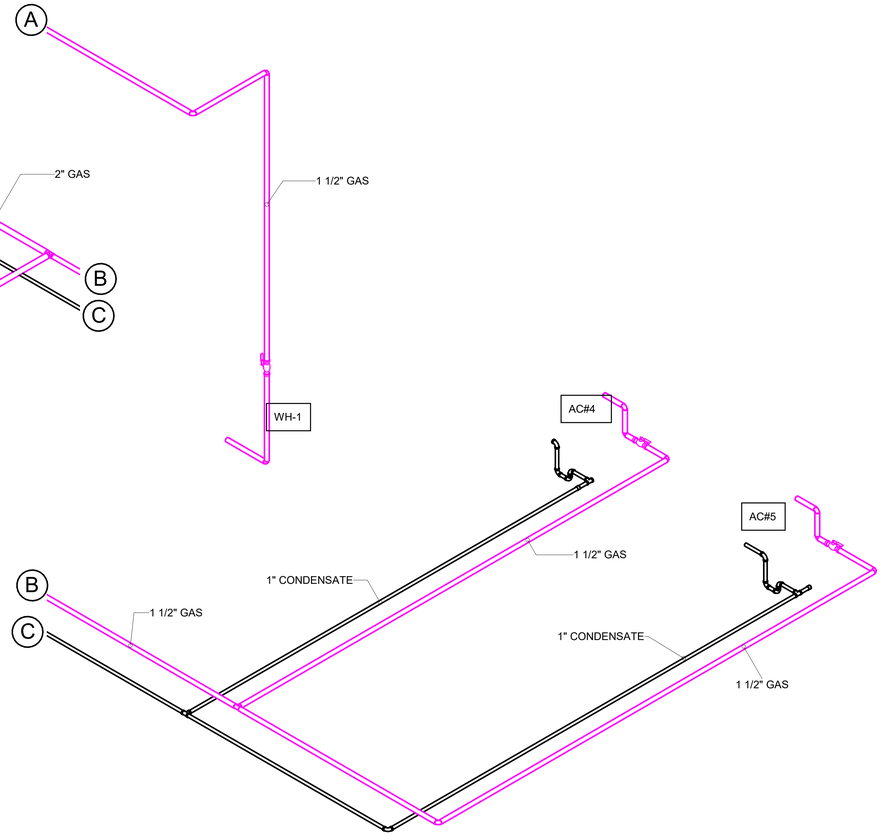
SHEET NUMBER
M-702



1 GAS AND CONDENSATE ISOMETRIC - LENNOX (PART "A")



3 ORDER CANOPY GAS PIPING ISOMETRIC



2 GAS AND CONDENSATE ISOMETRIC - LENNOX (PART "B")

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Architect No. N/A
Landscape No. N/A

GEORGIA REGISTERED No. PE027104 PROFESSIONAL ENGINEER SALVATORE F. SICLARI

CHICK-FIL-A
MACLAND CROSSING

2005 MACLAND CROSSING CIR SW
MARIETTA, GA 30008

FSR#01169

BUILDING TYPE / SIZE: P14 SE XP
RELEASE: 23.09

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
3	03/03/2025	PERMIT REV 3

CONSTRUCTION

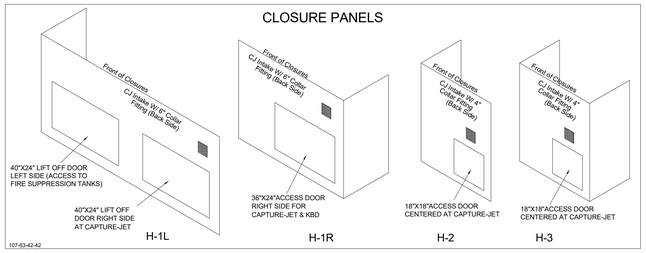
CONSULTANT PROJECT # C291110
PRINTED FOR CONSTRUCTION
DATE 03/04/2025
DRAWN BY JRH

SHEET
GAS AND CONDENSATE ISOMETRIC - LENNOX

SHEET NUMBER
M-901L

HOOD MODEL	HOOD NUMBER	EXHAUST COLLAR QTY	EXHAUST COLLAR LENGTH	EXHAUST COLLAR WIDTH	EXHAUST AIR INFORMATION CFM	EXHAUST AIR INFORMATION TAB	EXHAUST AIR INFORMATION SP	CAPTURE AIR INFORMATION CFM	CAPTURE AIR INFORMATION SP	S.S. KSA FILTERS FULL	S.S. KSA FILTERS HALF	LED LIGHTS	CEILING CLOSURES QTY	CLOSURE HEIGHT	CEILING HEIGHT	HOOD WEIGHT	KBD DAMPER	K FACTOR (CFM = K FACTOR * √DP)	MATERIAL
KVL-2-IC	H-1L	1	14"	8"	1204	0.13"	0.22"	80	0.30"	5	-	3	2	TBD	ADVISE	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			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	

CLOSURE PANELS

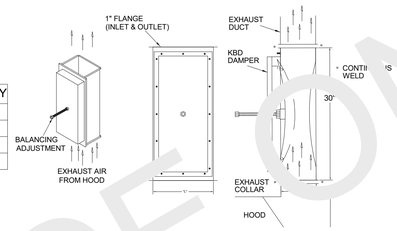


107-63-42-42

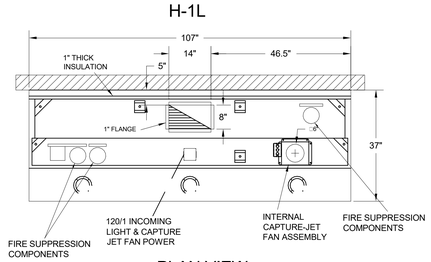
MODEL:KBD
CALIBRATED KBDs
KITCHEN BALANCING DAMPER
EXHAUST VOLUME DAMPER

TAG	"L"	"W"	QUANTITY
H-1L	14"	8"	1
H-1R	8"	8"	1
H-2	8"	8"	1
H-3	8"	8"	1

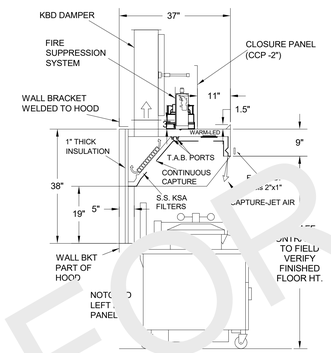
MATERIAL: FRAME - 16GA CONT.
GALV. ADJUSTABLE PANEL 18GA S.S.



H-1L



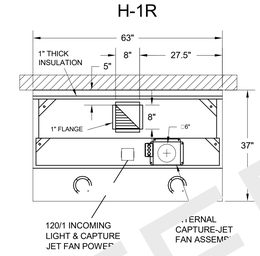
PLAN VIEW



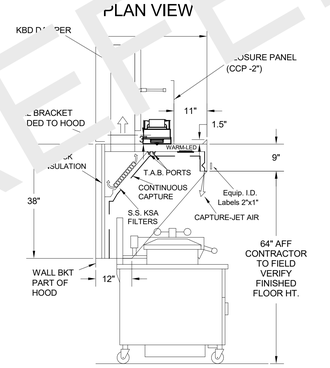
H-1L SECTION VIEW

- 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
- AMEREX WEIGHT = 264 LBS

H-1R



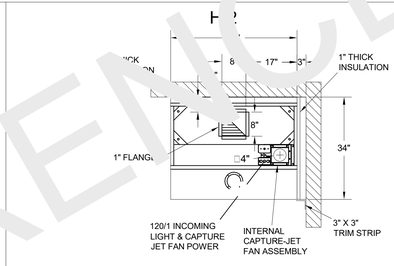
PLAN VIEW



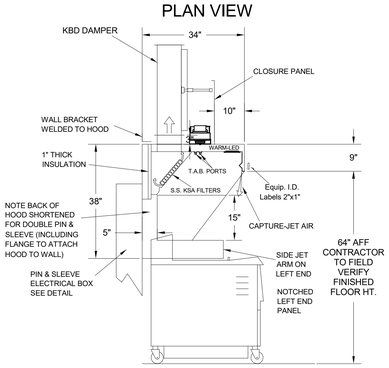
H-1R SECTION VIEW

- CEILING CLOSURE RECESSED 11" FROM FRONT TO CREATE SHELF
- 36"X24" ACCESS DOOR RIGHT SIDE FOR ACCESS TO CAPTURE-JET WITH FRONT CJ INTAKE & KBD
- CONTINUOUS CAPTURE INTERNAL LEFT END CUTOUT
- 3" REAR STAND-OFF TO HAVE 1" THICK INSULATION

H-2



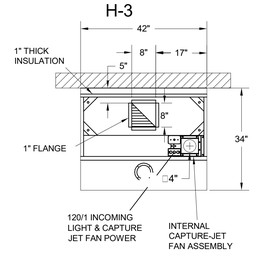
PLAN VIEW



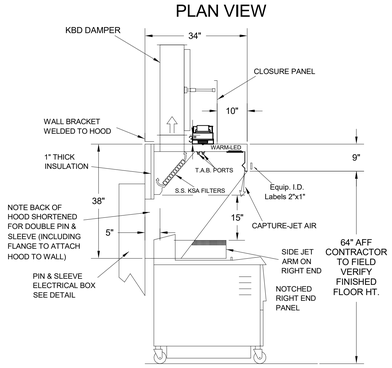
H-2 SECTION VIEW

- 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

H-3



PLAN VIEW



H-3 SECTION VIEW

- 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

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:
1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES
2. FIRE LOCATION AND TYPE OF COOKING EQUIPMENT.
NOTE: TYPE OF COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT ANY CHANGES IN COOKING 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
☐ REVISE AND RESUBMIT

APPROVED BY: DATE

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

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

☐

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

☒

WEBSITE: www.halton.com

REV:	REVISION DESCRIPTION	BY:	DATE
1			
2			
3			
4			
5			
6			
7			

PROJECT:
CHICK-FIL-A #1169
MACLAND CROSSING

LOCATION: MARIETTA, GA
DRAWN BY: SKK
DATE: 03.18.24
SCALE: NOT TO SCALE

Halton

DRAWING No.:
U24-220-01

SHEET NO.: H-1.1

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

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Plans Prepared By
CPH Consulting, LLC
State of Georgia Licenses:
Engineer No. PEF006331
Surveyor No. LSF000870
Architect No. N/A
Landscape No. N/A

THE EQUIPMENT SHOWN ON THIS SHEET IS DESIGNED BY OTHERS NOT UNDER THE RESPONSIBLE CHARGE OF THE ENGINEER OF RECORD (EOR). THIS SHEET IS ISSUED FOR INFORMATION AND CLARIFICATION ONLY. EOR ACCEPTS NO RESPONSIBILITY FOR ANY OF THIS EQUIPMENT.

CHICK-FIL-A
MACLAND CROSSING
2005 MACLAND CROSSING CIR SW
MARIETTA, GA 30008

FSR#01169

BUILDING TYPE / SIZE: P14 SE XP
RELEASE: 23.09

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

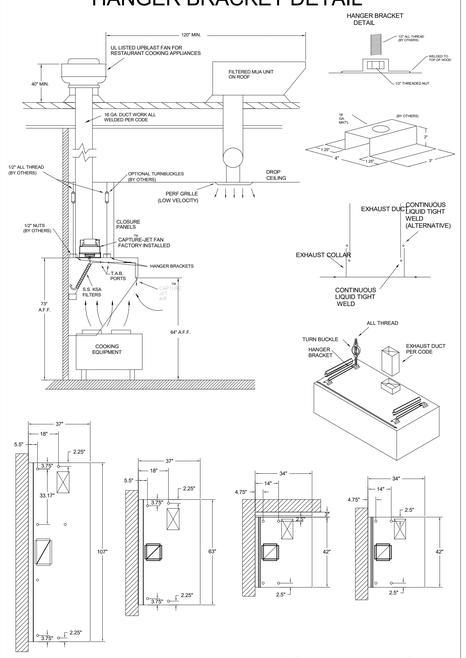
CONSTRUCTION

CONSULTANT PROJECT # C291110
PRINTED FOR CONSTRUCTION
DATE 03/04/2025
DRAWN BY JRH

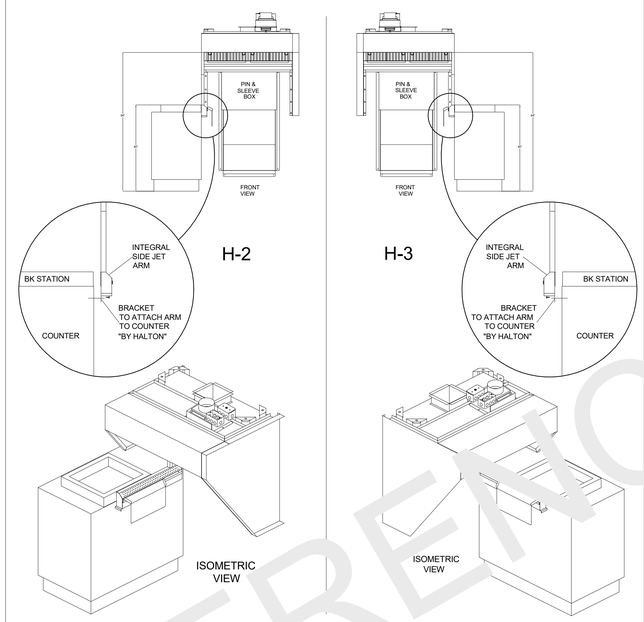
SHEET HALTON HOOD SHOP DRAWING

SHEET NUMBER
MH-1.1

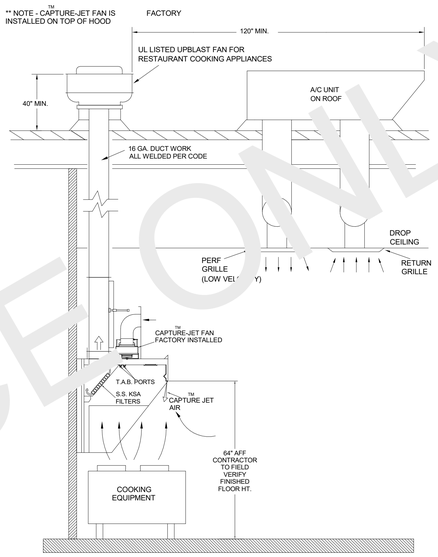
HANGER BRACKET DETAIL



INTEGRAL SIDE JET ARM



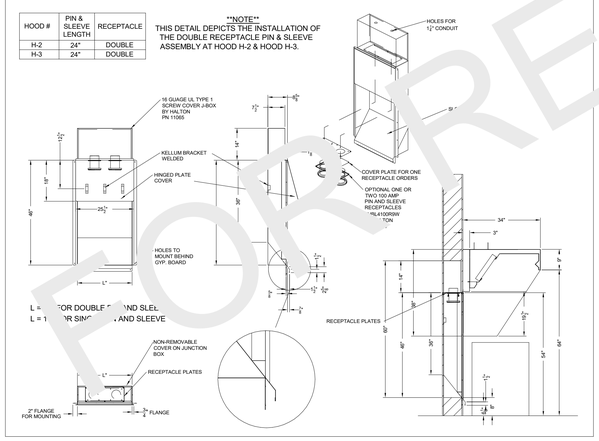
TYPICAL INSTALLATION



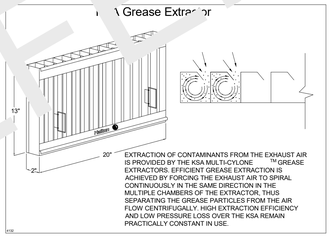
PIN & SLEEVE BOX DETAIL

HOOD #	PIN & SLEEVE LENGTH	RECEPTACLE
H-2	24"	DOUBLE
H-3	24"	DOUBLE

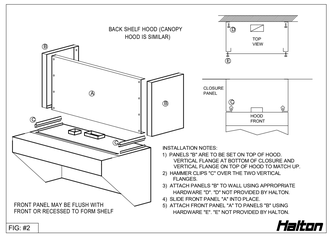
NOTE
THIS DETAIL DEPICTS THE INSTALLATION OF THE DOUBLE RECEPTACLE PIN & SLEEVE ASSEMBLY AT HOOD H-2 & HOOD H-3.



Grease Extractor



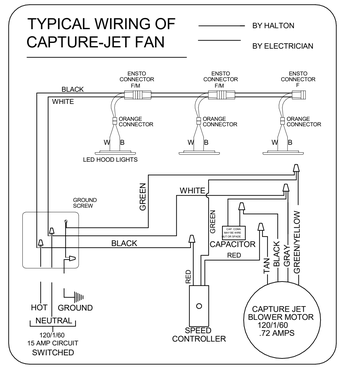
EXTRACTION OF CONTAMINANTS FROM THE EXHAUST AIR IS PROVIDED BY THE KSA MULTI-CYCLONE ™ GREASE EXTRACTORS. EFFICIENT GREASE EXTRACTION IS ACHIEVED BY FORCING THE EXHAUST AIR TO SPIRAL CONTINUOUSLY IN THE SAME DIRECTION IN THE MULTIPLE CHAMBERS OF THE EXTRACTOR, THUS SEPARATING THE GREASE PARTICLES FROM THE AIR FLOW CENTRIFUGALLY. HIGH EXTRACTION EFFICIENCY AND LOW PRESSURE LOSS OVER THE KSA REMAIN PRACTICALLY CONSTANT IN USE.



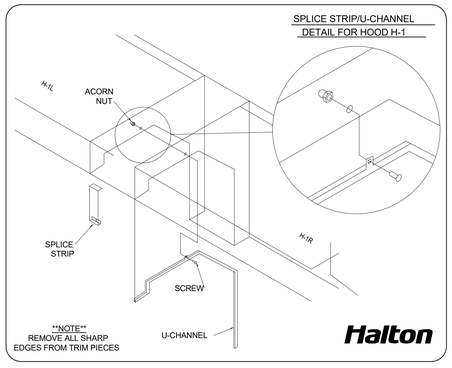
INSTALLATION NOTES:
1) PANELS "A" ARE TO BE SET ON TOP OF HOOD VERTICAL FLANGE AT BOTTOM OF CLOSURE AND VERTICAL FLANGE ON TOP OF HOOD TO MATCH UP.
2) HAMMER CLIPS "C" OVER THE TWO VERTICAL FLANGES.
3) ATTACH PANELS "B" TO WALL USING APPROPRIATE HARDWARE "D". "D" NOT PROVIDED BY HALTON.
4) SLIDE FRONT PANEL "A" INTO PLACE.
5) ATTACH FRONT PANEL "A" TO PANELS "B" USING HARDWARE "E". "E" NOT PROVIDED BY HALTON.

FIG: #2

TYPICAL WIRING OF CAPTURE-JET FAN



SPLICE STRIP/U-CHANNEL DETAIL FOR HOOD H-1



NOTE
REMOVE ALL SHARP EDGES FROM TRIM PIECES

Halton

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

Halton ETL INTERTEK 3012225
CONFORMS TO UL STD UL STD 710 CERTIFIED TO ULC STD S646

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

MODEL NO.	SERIAL NO.	ITEM NO.
KVL-C-IC		

GENERAL REQUIREMENTS

FILTER TYPE EXHAUST HOOD FOR COMMERCIAL AND INSTITUTIONAL KITCHENS
THE FAN CIRCUIT IS RATED FOR 120V, 15A, 60HZ.
THE LIGHTING CIRCUIT IS RATED FOR 120V, 10A, 60HZ.
THE HOOD HAS BEEN CERTIFIED BY ETL FOR 0 INCH CLEARANCE TO COMBUSTIBLE
MATERIALS (TOP, SIDES, FRONT AND REAR) IN COMPLIANCE WITH UL710 WITH CONSIDERATIONS TO NFPA 96
THE HOOD IS PROVIDED WITH REPLACEABLE KSA FILTERS AND LIGHTING FIXTURES
REPLACE FILTERS ONLY WITH UL CLASSIFIED FILTER TYPE OF THE SAME MODEL AND MANUFACTURER.
SUITABLE FOR USE TO MEDIUM DUTY COOKING APPLIANCES.

DUTY LEVEL	MINIMUM OVERHANG		DISTANCE BETWEEN FRONT EDGE OF HOOD AND COOKING SURFACE, IN		MIN. EXHAUST CFM/FT OF HOOD LENGTH
	FRONT, IN	SIDE, IN	MIN	MAX	
MEDIUM	6	0	21	31	138

JET SUPPLY AIR FLOW SHALL ONLY BE SET AT 0.26 IN H20

Halton ETL INTERTEK 3012225
CONFORMS TO UL STD UL STD 710 CERTIFIED TO ULC STD S646

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

MODEL NO.	SERIAL NO.	ITEM NO.
KVL-2-IC		

GENERAL REQUIREMENTS

FILTER TYPE EXHAUST HOOD FOR COMMERCIAL AND INSTITUTIONAL KITCHENS
THE FAN CIRCUIT IS RATED FOR 120V, 15A, 60HZ.
THE LIGHTING CIRCUIT IS RATED FOR 120V, 10A, 60HZ.
THE HOOD HAS BEEN CERTIFIED BY ETL FOR 0 INCH CLEARANCE TO COMBUSTIBLE
MATERIALS (TOP, SIDES, FRONT AND REAR) IN COMPLIANCE WITH UL710 WITH CONSIDERATIONS TO NFPA 96
THE HOOD IS PROVIDED WITH REPLACEABLE KSA FILTERS AND LIGHTING FIXTURES
REPLACE FILTERS ONLY WITH UL CLASSIFIED FILTER TYPE OF THE SAME MODEL AND MANUFACTURER.
SUITABLE FOR USE TO HEAVY DUTY COOKING APPLIANCES.

DUTY LEVEL	MINIMUM OVERHANG		DISTANCE BETWEEN FRONT EDGE OF HOOD AND COOKING SURFACE, IN		MIN. EXHAUST CFM/FT OF HOOD LENGTH
	FRONT, IN	SIDE, IN	MIN	MAX	
MEDIUM	6 (+)	0	25	30	121
MEDIUM	6	0	20	32	106
MEDIUM	6	0	20	36	130
HEAVY	0	2	20	25	191
HEAVY	0	2	25	30	216

+ - SETBACK/OVERHANG DISTANCE

JET SUPPLY AIR FLOW SHALL ONLY BE SET AT 0.26 IN H20

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

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

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

WEBSITE: www.halton.com

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:
1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES
2. FIRE LOCATION AND TYPE OF COOKING EQUIPMENT.
NOTE: THE COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT ANY CHANGES IN COOKING 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
☐ REVISE AND RESUBMIT

APPROVED BY: DATE

REV.	REVISION DESCRIPTION	BY	DATE
1			
2			
3			
4			
5			
6			
7			

PROJECT: CHICK-FIL-A #1169
MACLAND CROSSING

LOCATION: MARIETTA, GA
DRAWN BY: SKK
DATE: 03.18.24
SCALE: NOT TO SCALE

Halton

DRAWING No.: U24-220-02

SHEET NO.: H-1.2

CONSTRUCTION

CONSULTANT PROJECT # C291110
PRINTED FOR CONSTRUCTION
DATE 03/04/2025
DRAWN BY JRH

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SHEET HALTON HOOD SHOP DRAWING

SHEET NUMBER MH-1.2

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

cph
www.cphcorp.com
A Full Service A & E Firm

Plans Prepared By
CPH Consulting, LLC
State of Georgia Licenses:
Engineer No. PEF006331
Surveyor No. LSF000870
Architect No. N/A
Landscape No. N/A

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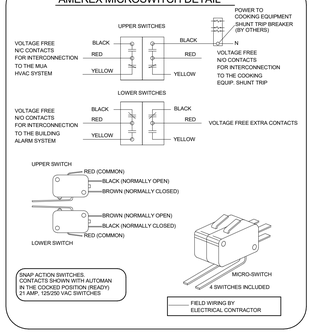
CHICK-FIL-A
MACLAND CROSSING
2005 MACLAND CROSSING CIR SW MARIETTA, GA 30008

FSR#01169
BUILDING TYPE / SIZE: P14 SE XP
RELEASE: 23.09

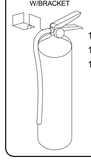
REVISION SCHEDULE

NO.	DATE	DESCRIPTION

AMEREX MICROSWITCH DETAIL



FIRE EXTINGUISHER

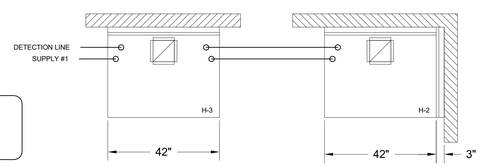


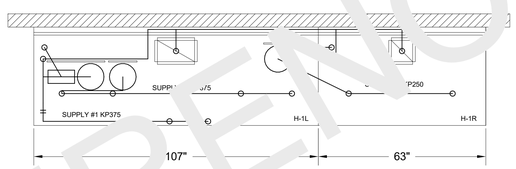
AMEREX

11238 5 LBS ABC MODEL B402 QTY_____
11239 10 LBS ABC MODEL B456 QTY_____
11240 6 LTR CLASS K MODEL C-260 QTY_____

SUPPLIED BY HALTON

1/2" BLACK IRON SUPPLY LINE REQ'D FROM TANK TO FIRST BRANCH LINE FOR 475 TANKS ONLY!

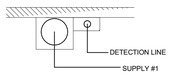




PROTECTS HOODS H-2 & H-3

REMOTE MOUNTED:

(1) SYSTEM ENCLOSURE W/
(1) MECHANICAL RELEASE MODULE
(1) KP475 AGENT CYLINDER (4.75 GALLON TANK)



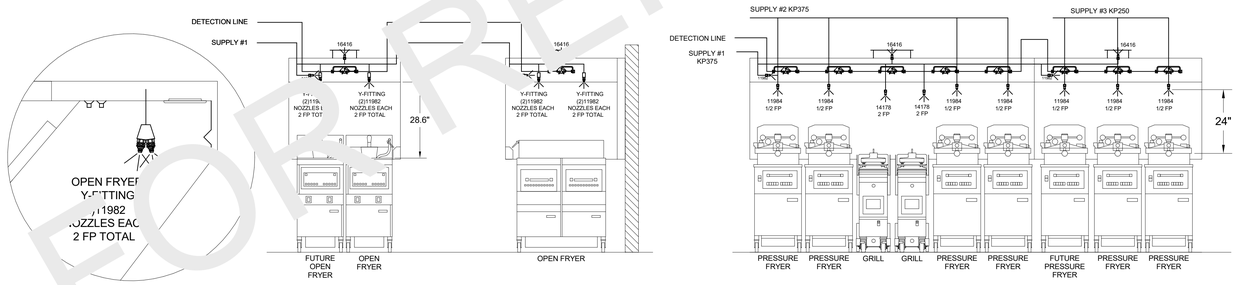
AMEREX FIRE SYSTEM
A) (1) KP475 TANKS - 14 FLOW POINTS (REMOTE MOUNTED) (FOR HOOD H-2 & H-3)
B) 3/8" BLACK IRON PIPING WITH 3/8" S.S. APPLIANCE DROPS

(1) SYSTEM ENCLOSURE
(1) MECHANICAL RELEASE MODULE
(2) EXTRA MICRO SWITCH ASSEMBLIES (MOUNTED IN MECHANICAL REL. MODULE)
(1) KP475 AGENT CYLINDERS (4.75 GALLON TANK)

NOZZLE	ID	QTY	DESCRIPTION
16416	2R-0G	1 EA.	T NOZZLES
11982	1-0G	1 PER	PLU M NOZZLES
11982 Y-[illegible]	2R-0G	NO. [illegible] WITH 2 S PER FRYER	ALL O[illegible] FRYERS
[illegible]4	4R-0G	1 [illegible] FRYER	[illegible] PRESSURE FRYERS
1[illegible]	[illegible]	1 H GRILL	ALL GRILLS
		[illegible] APPLIANCE NO[illegible] SWIVELS	

AMEREX FIRE SYSTEM
A) (2) KP375 TANKS & (1) KP250 TANK - 29 FLOW POINTS (MOUNTED ON HOOD H-1L FOR HOODS H-1L & H-1R)
B) 1/2" & 3/8" BLACK IRON PIPING WITH 3/8" S.S. APPLIANCE DROPS

(1) MECHANICAL RELEASE MODULE
(2) EXTRA MICRO SWITCH ASSEMBLIES (MOUNTED IN MECHANICAL REL. MODULE)
(1) 2.61 GALLON TANK
(2) 3.75 GALLON TANKS



AMEREX FIRE SYSTEM LAYOUT

AMEREX

FUSIBLE LINK RATINGS

ITEM	TEMP
OPEN FRYERS	450°
2 BURNER / FLAT TOP	450°
PRESSURE FRYERS	450°
GRILL	450°
EXHAUST COLLARS	450°

AMEREX FIRE SYSTEM NOTES
(2) KP375 & (1) KP250 TANK SYSTEM MOUNTED ON TOP OF (H-1L)
MAXIMUM FLOW POINTS = 29

AMEREX FIRE SYSTEM NOTES
(1) KP475 TANK SYSTEM REMOTE MOUNTED
MAXIMUM FLOW POINTS = 14

ITEM	QTY	DESCRIPTION	FLOW PTS (TOTAL)
16416	4	DUCT NOZZLES	4
11982	4	PLENUM NOZZLES	4
11982 Y-FITTING	4	APPLIANCE NOZZLES	8
14178	2	APPLIANCE NOZZLES	4
11984	7	APPLIANCE NOZZLES	3.5
		TOTAL FLOW POINTS	23.5

ITEM	QTY	DESCRIPTION
12508-P001	10	DETECTORS BRACKET ASSEMBLY
26948	1	KP250 AGENT CYLINDER
13334	2	KP375 AGENT CYLINDER
17379	1	KP475 AGENT CYLINDER
18001	1	MECHANICAL RELEASE MODULE WITH ENCLOSURE WITH DOUBLE POLE MICRO SWITCH
11977	1	MECHANICAL RELEASE MODULE WITHOUT ENCLOSURE WITH DOUBLE POLE MICRO SWITCH
21481	2	REMOTE MANUAL PULL STATION

AMEREX FIRE SYSTEM
UL LISTED PER STD LATEST STD 300
1. FINAL INSTALLATION IS TO BE MADE IN ACCORDANCE WITH ALL APPLICABLE CODES
2. ALL ELECTRICAL COMPONENTS FOR EQUIPMENT SHUT DOWN TO BE PROVIDED BY THE ELECTRICIAN. MICRO-SWITCH INSTALLED IN REGULATED RELEASE BY AMEREX INSTALLER
3. REMOTE PULL STATION LOCATED PER MECHANICAL DRAWINGS

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:
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2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.

NOTE TO APPROVER
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☐ REVISE AND RESUBMIT

APPROVED FOR FABRICATION
☐ WITH NO CHANGES ☐ WITH CHANGES AS NOTED

APPROVED BY _____ DATE _____

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

HALTON CO. (CANADA)
1021 BREVIK PLACE
MISSISSAUGA, ON L4W 3R7
1-905-624-0901

HALTON CO. (USA)
101 INDUSTRIAL DRIVE
SCOTTSVILLE, KY 42164
1-270-237-5600
WEBSITE: www.halton.com

REV.	REVISION DESCRIPTION	BY	DATE
1.			
2.			
3.			
4.			
5.			
6.			
7.			

PROJECT:
CHICK-FIL-A #1169
MACLAND CROSSING

LOCATION: MARIETTA, GA
DRAWN BY: SKK
DATE: 03.18.24
SCALE: NOT TO SCALE

Halton

DRAWING No.:
U24-220-03

SHEET NO.: H-1.3

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

cph
www.cphcorp.com
A Full Service A & E Firm

Plans Prepared By
CPH Consulting, LLC
State of Georgia Licenses:
Engineer No. PEF006331
Surveyor No. LSF000870
Architect No. N/A
Landscape No. N/A

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CHICK-FIL-A
MACLAND CROSSING

2005 MACLAND CROSSING CIR SW
MARIETTA, GA 30008

FSR#01169

BUILDING TYPE / SIZE: P14 SE XP
RELEASE: 23.09

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

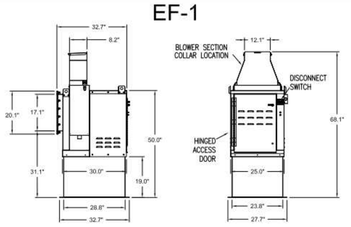
CONSTRUCTION

CONSULTANT PROJECT #	C291110
PRINTED FOR	CONSTRUCTION
DATE	03/04/2025
DRAWN BY	JRH

SHEET
HALTON HOOD SHOP DRAWING

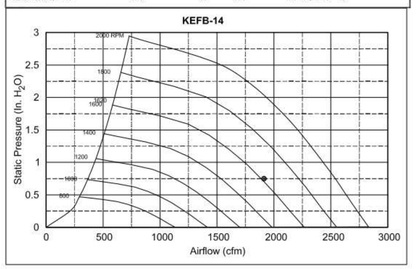
SHEET NUMBER
MH-1.3

EF-1

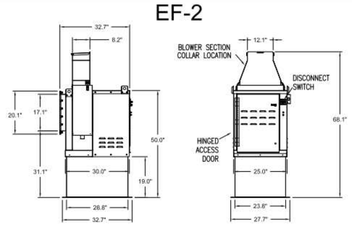


Halton KEFB Exhaust Fan

Job Name	Chick-fil-A				
Location	EF-1				
Date	1/26/2023	Item No	Qty		
Model		KEFB-14	Fan RPM	1,620	Volts/Ph/Amps: 115/1/60
Airflow, cfm		1,913	Fan BHP	0.55	Motor HP 0.75
Static Pressure, in WC		0.75	dB	85.3	TAB Port, in WC 4.6

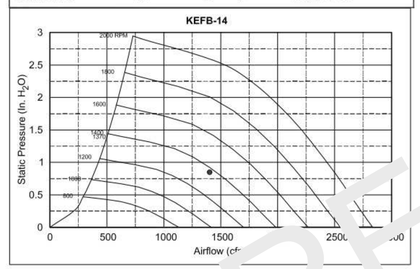


EF-2



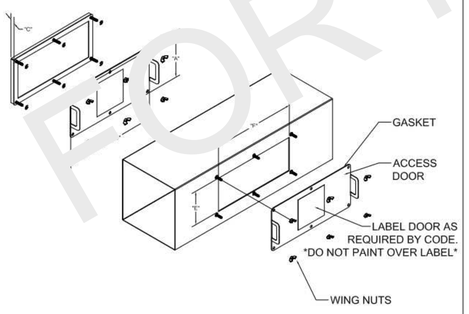
Halton KEFB Exhaust Fan

Job Name	Chick-fil-A				
Location	EF-2				
Date	1/26/2023	Item No	Qty		
Model		KEFB-14	Fan RPM	1,370	Volts/Ph/Amps: 115/1/60
Airflow, cfm		1,402	Fan BHP	0.34	Motor HP 0.75
Static Pressure, in WC		0.95	dB	81	TAB Port, in WC 2.6

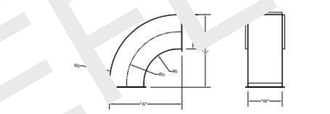


GREASE ACCESS DOOR SCHEDULE					
	DOOR SIZE		OPTIONAL FLANGE	OPENING SIZE	
MODEL	"A"	"B"	"C"	"E"	"F"
KAP0715	7	15	FLAT	5.5	13.5
KAP1015	10	15	1/2	7	12

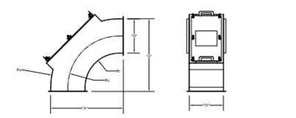
ACCESS DOORS SHALL BE U.L. 1978 LISTED OR FIELD FABRICATED TO REQUIRE NO TOOLS FOR REMOVAL AND MEET THE REQUIREMENTS OF THE CURRENT EDITION OF THE IMC. ACCESS DOOR SHALL BE SECURED WITH THUMB SCREWS. ACCESS DOORS SHALL BE SEALED WITH A MINIMUM 1500 DEREE GASKET MATERIAL



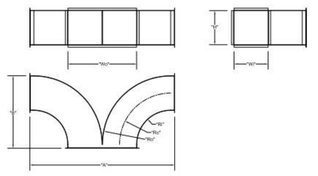
INSTALL PER MANUFACTURER'S INSTRUCTIONS



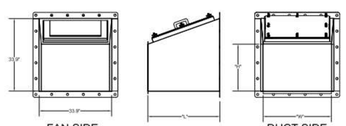
	"W"	"H"	"A"	Ro	Rc	Ri
EF-1	8	8	17	16	12	8
EF-2	8	10	17	16	12	8



"H"	"W"	"A"	Ro	Rc	Ri
14	8	29	28	21	14
8	8	17	16	12	8

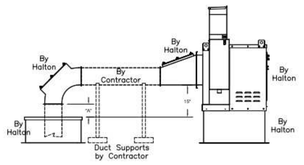


"Wi"	"H"	Wo	Ro	Rc	Ri	"A"	"B"
EF-1 8	14	16	16	12	8	34	17
EF-2 8	10	16	16	12	8	34	17



TRANSITION	"H"	"W"	"L"
EF-1 (5)	14	16	25
EF-2 (6)	10	16	17

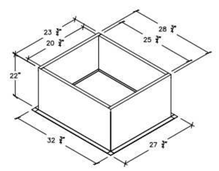
	"W"	"H"
EF-1	16	14



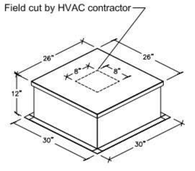
"A" DISTANCE AVAILABLE FOR DUCT SLOPE

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

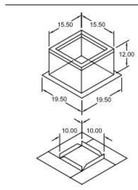
Halton Kitchen Exhaust Fan Curb
Insulated Duct Curb



Kitchen Exhaust Fan Roof 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 aluminized 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 aluminized steel – Straight Sided without a cant – 2 in. mounting flange – Height is 12 in. – 16 ga. cap



Model: GPI
For Model: XRED–090–G
Curb & Damper Tray

Accessories

Material	Security Bars	Liner	Insulation (in.)	Insulation R Value
Galvanized	No	No	1	R4.3

General

Tag	Qty	Model	Sizing Method	Undersizing (in.)	Weight (lb)	Shipped Assembled	Union	Label
EF-3	1	GPI–17	Nominal	1.5	14	Yes	No Preference	

Dimensions

Curb Height (in.)	Nominal Outside Width (in.)	Nominal Outside Length (in.)	Actual Outside Width (in.)	Actual Outside Length (in.)	Actual Inside Width (in.)	Actual Inside Length (in.)	Flange Width (in.)	Flange Length (in.)	Hinge Base Width* (in.)	Hinge Base Length* (in.)
12	17	17	15.5	15.5	12	12		19.5	16	

*May not be applicable

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

NOTE TO APPROVER
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☐ REVISE AND RESUBMIT

APPROVED FOR FABRICATION
☐ WITH NO CHANGES ☐ WITH CHANGES AS NOTED

APPROVED BY: DATE

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

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

HALTON CO. (USA) ☒
101 INDUSTRIAL DRIVE
SCOTTSVILLE, KY 42164
1-270-237-5600
WEBSITE: www.halton.com

REV.	REVISION DESCRIPTION	BY	DATE

PROJECT: CHICK-FIL-A FAN DETAILS
LOCATION: PROTO | DRAWN BY: ACF | SCALE: | CONSULTANT: Halton
SE/LE/LS/LSR (BN & BP) | DATE: 05.10.23

DRAWING TITLE: CFA FAN DETAILS
DRAWING No.: U23–459
REV. NO.: 0 | SHEET NO.: 1 of 2

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

www.cphcorp.com
A Full Service
A & E Firm

Plans Prepared By
CPH Consulting, LLC
State of Georgia Licenses:
Engineer No. PEF006331
Surveyor No. LSF000870
Architect No. N/A
Landscape No. N/A

THE EQUIPMENT SHOWN ON THIS SHEET IS DESIGNED BY OTHERS NOT UNDER THE RESPONSIBLE CHARGE OF THE ENGINEER OF RECORD (EOR). THIS SHEET IS ISSUED FOR INFORMATION AND CLARIFICATION ONLY. EOR ACCEPTS NO RESPONSIBILITY FOR ANY OF THIS EQUIPMENT.

CHICK-FIL-A
MACLAND CROSSING

2005 MACLAND CROSSING CIR SW
MARIETTA, GA 30008

FSR#01169

BUILDING TYPE / SIZE: P14 SE XP
RELEASE: 23.09

RÉVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSTRUCTION

CONSULTANT PROJECT #	C291110
PRINTED FOR	CONSTRUCTION
DATE	03/04/2025
DRAWN BY	JRH

SHEET: HALTON HOOD SHOP DRAWING

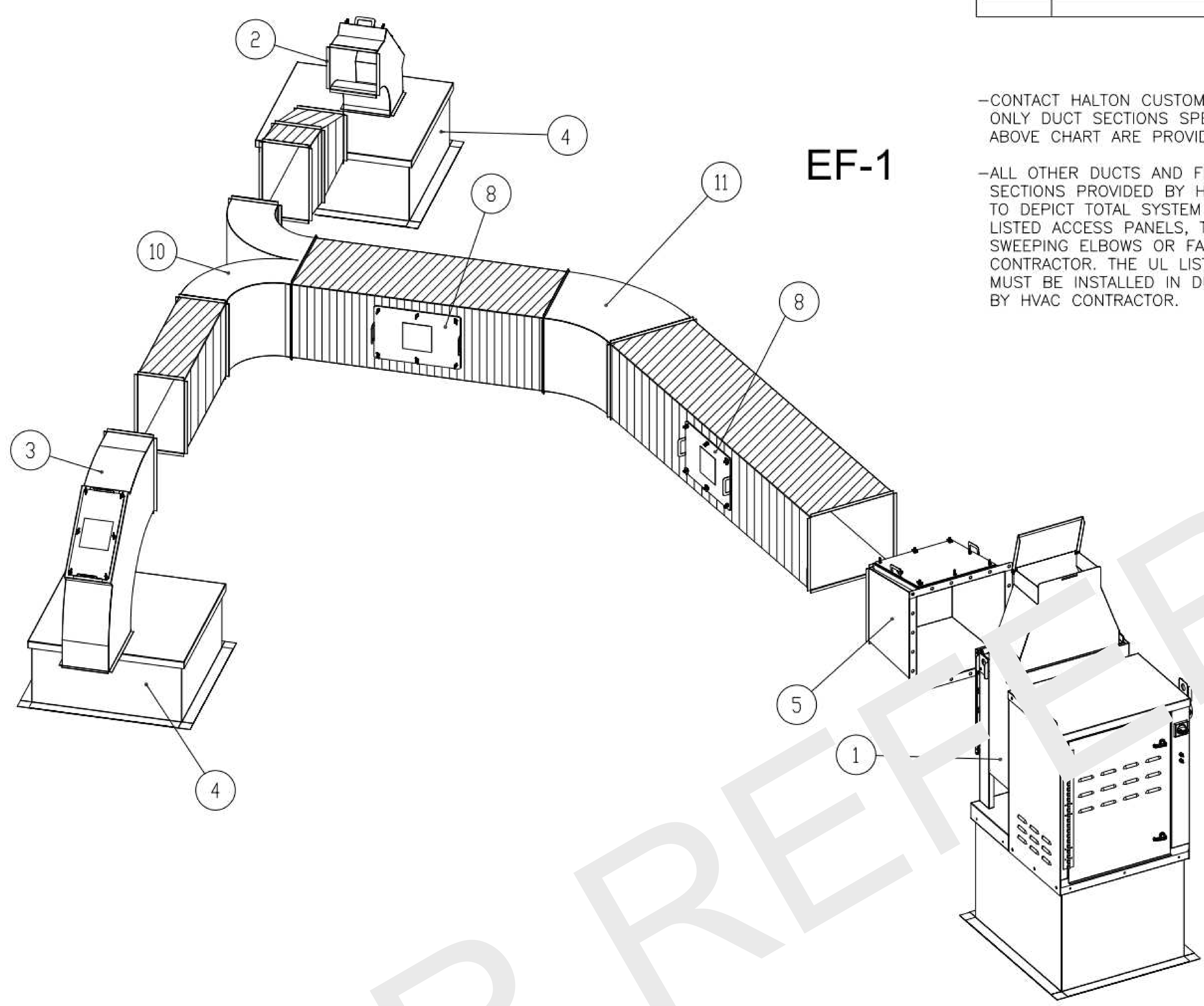
SHEET NUMBER: **MH-1.4**

ITEM	DESCRIPTION	QTY
1	KEFB EXHAUST FAN W/ ROOF CURB	2
2	LONG SWEEPING ELBOW W/ UL LISTED ACCESS PANEL 8X8	3
3	LONG SWEEPING ELBOW W/ UL LISTED ACCESS PANEL 14X8	1
4	DUCT ROOF CURB W/ CAP 26X26X9	4
5	FAN TRANSITION W/ UL LISTED ACCESS PANEL 14X16	1
6	FAN TRANSITION W/ UL LISTED ACCESS PANEL 10X16	1
7	UL LISTED ACCESS PANEL 7X15	4
8	UL LISTED ACCESS PANEL 10X15	2
9	LONG SWEEPING WYE 8X10	1
10	LONG SWEEPING WYE 14X8	1
11	45° 14X16	1

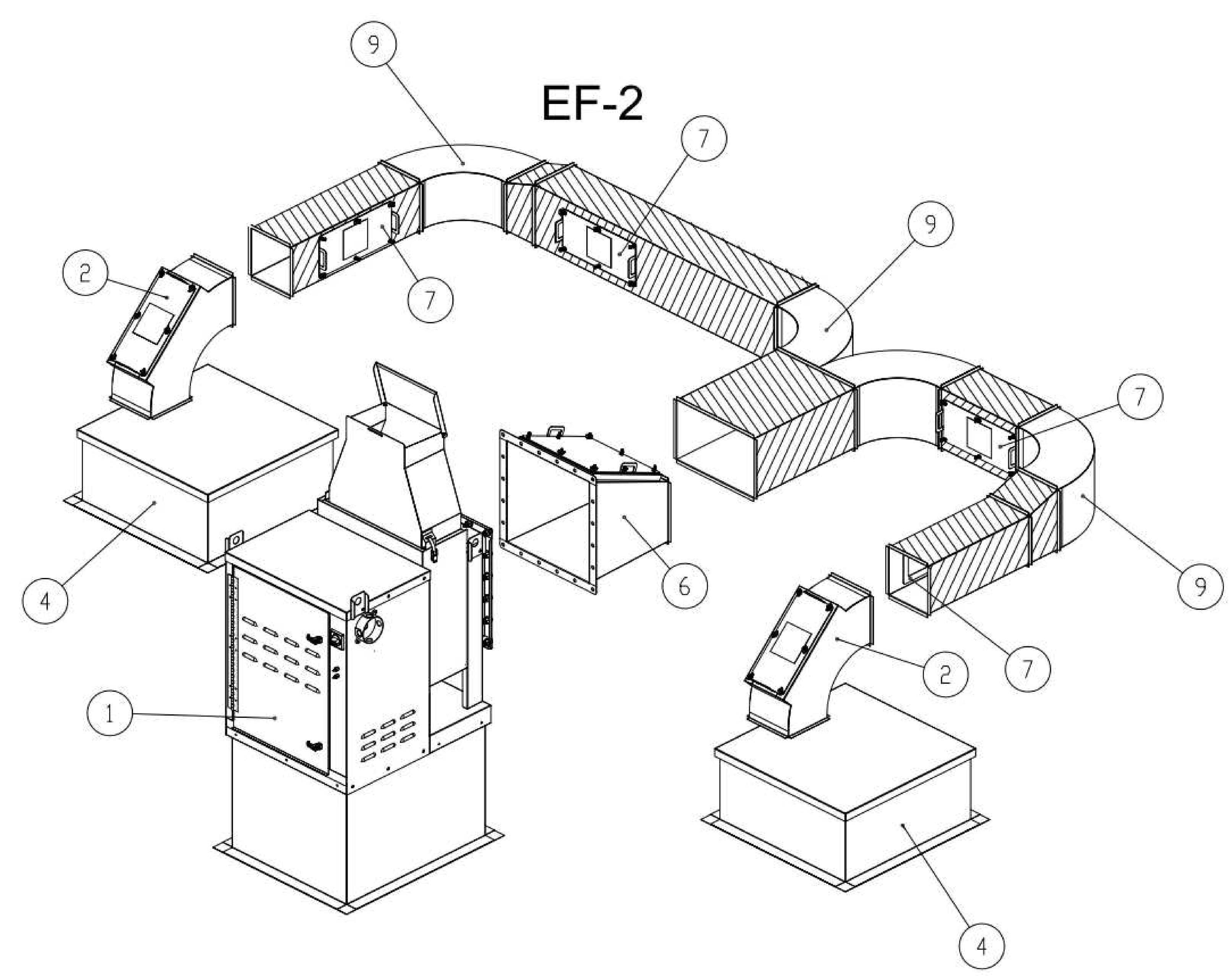
–CONTACT HALTON CUSTOMER SERVICE FOR HALTON PROVIDED ITEMS ONLY. DUCT SECTIONS SPECIFIED BY NUMBERS AND SHOWN IN THE ABOVE CHART ARE PROVIDED BY HALTON

–ALL OTHER DUCTS AND FITTINGS BY HVAC CONTRACTOR. DUCT SECTIONS PROVIDED BY HVAC CONTRACTOR ARE SHOWN IN ORDER TO DEPICT TOTAL SYSTEM DESIGN. DUCT SECTIONS SHOWN WITH UL LISTED ACCESS PANELS, THAT ARE NOT HALTON PROVIDED LONG SWEEPING ELBOWS OR FAN TRANSITIONS, ARE PROVIDED BY HVAC CONTRACTOR. THE UL LISTED ACCESS PANELS PROVIDED BY HALTON MUST BE INSTALLED IN DUCT SECTIONS NOT PROVIDED BY HALTON BY HVAC CONTRACTOR.

EF-1



EF-2



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

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APPROVED FOR FABRICATION

☐ WITH NO CHANGES ☐ WITH CHANGES AS NOTED

APPROVED BY ______ DATE ______

COMPLIES WITH LATEST NFPA-96

PROJECT: CHICK-FIL-A FAN DETAILS
LOCATION: PROTO SE/LE/LS/LSR (BN & BP)
DRAWN BY: ACF DATE: 05.10.23
SCALE:
CONSULTANT:

Halton

DRAWING TITLE: CFA FAN DETAILS
DRAWING No.: U23-459
REV. NO.: 0 SHEET NO.: 2 of 2

Chick-fil-A

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cph

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MARIETTA, GA 30008

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NO.	DATE	DESCRIPTION

CONSTRUCTION

CONSULTANT PROJECT # C291110
PRINTED FOR CONSTRUCTION
DATE 03/04/2025
DRAWN BY JRH

SHEET
HALTON HOOD SHOP DRAWING

SHEET NUMBER
MH-1.5