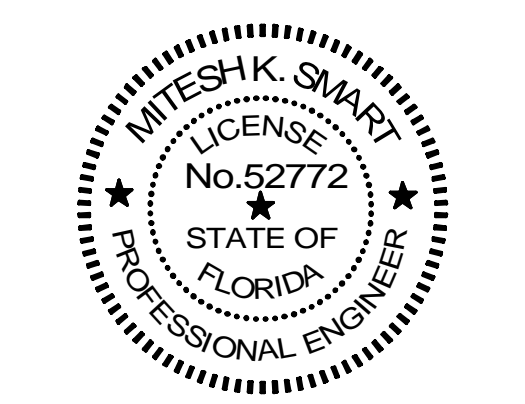


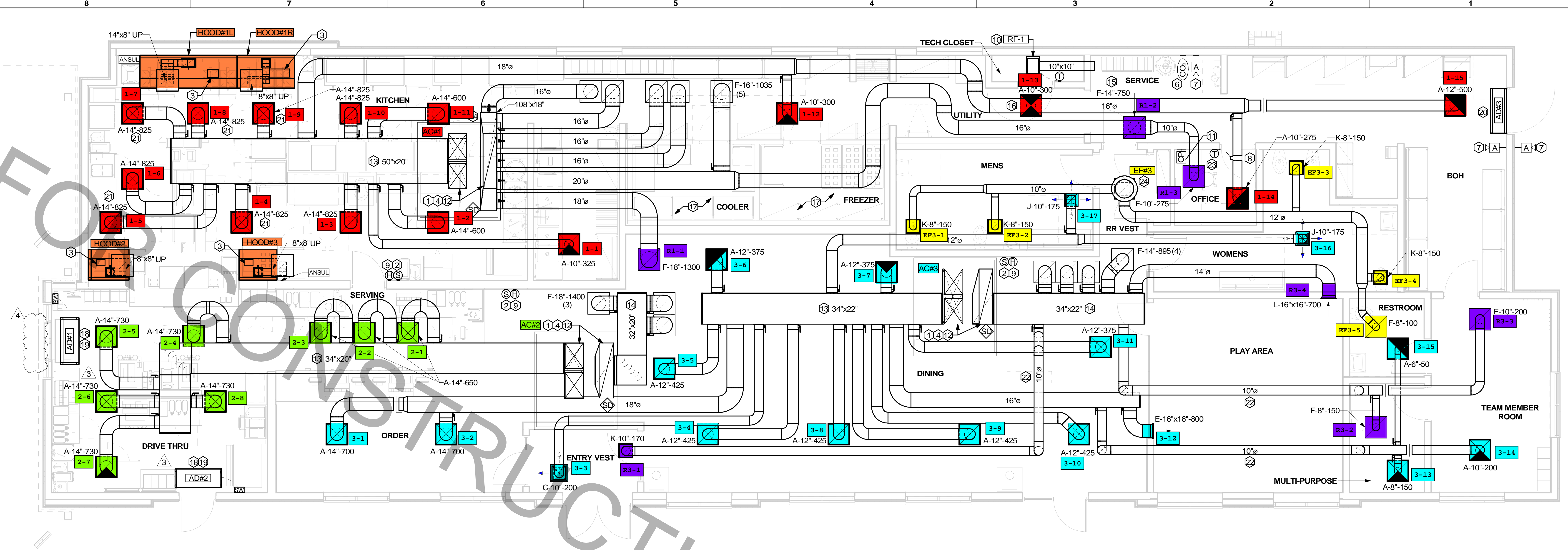


Chick-fil-A
 5200 Buffington Road
 Atlanta, Georgia
 30349-2998

ISP INTERNATIONAL SERVICE PARTNERS, LLC
 386 S ATLANTIC AVE, UNIT 9
 ORMOND BEACH, FL 32176
 TEL: (407) 674-6462
 COA # 35434



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

LEGEND			
A-12-400	TYPE - NECK SIZE - CFM	EF#1	EXHAUST FAN #1 (TYP.)
[Symbol]	SPIN-IN FITTING WITH MANUAL BALANCING DAMPER, WITHOUT SCOOP	ACH#1	AIR CONDITIONING UNIT #1 (TYP.)
[Symbol]	SPIN-IN HARD/DIFFUSER	[Symbol]	RETURN/EXHAUST DIFFUSER (TYP.)
[Symbol]	REMOTE TEMPERATURE SENSOR	[Symbol]	SUPPLY DIFFUSER, SQ FACE (TYP.)
[Symbol]	HUMIDITY SENSOR	[Symbol]	PLAN NOTE REFERENCE
[Symbol]	SMOKE DETECTOR	[Symbol]	MANUAL VOLUME DAMPER
[Symbol]	DUCT SIZE (reverse for elevation views) 1ST NUMBER - HORIZONTAL DIMENSION 2ND NUMBER - VERTICAL DIMENSION	[Symbol]	DIRECTION OF THROW ON DIFFUSER
[Symbol]	AIR DOOR SWITCH	[Symbol]	CLOSED AIR PATTERN DEFLECTOR
[Symbol]	ELECTRICAL CONTRACTOR	[Symbol]	GAS INFRARED HEATER (TYP.)
[Symbol]	ELECTRIC INFRARED HEATER	[Symbol]	BELOW GRADE
[Symbol]	MECHANICAL CONTRACTOR	[Symbol]	THERMOSTAT
[Symbol]	CO ₂ SENSOR	[Symbol]	STROBE AUDIO/VISUAL ALARM-ANNUNCIATOR
[Symbol]		[Symbol]	CONTROL PANEL

FLEX DUCT SIZE			
RANGE	SIZE	RANGE	SIZE
0 -80 CFM	6" DIA.	511 -950 CFM	14" DIA.
81 -170 CFM	8" DIA.	951 -1100 CFM	16" DIA.
171 -300 CFM	10" DIA.	1101 -1450 CFM	18" DIA.
301 -510 CFM	12" DIA.	1451 -1900 CFM	20" DIA.

NOTES:
 1. BASED ON WIRE HELIX FLEXIBLE DUCT: TYPE FLEX-MASTER.
 2. UL LISTING: U-181 / ETL CLASS 1 AIR DUCT.
 3. STANDARD CODE: NFPA 90A AND 90B, BOCA, SBBC HUD/FHA, MIN PROPERTY STD.
 4. FLAME SPREAD.....LESS THAN 25
 5. SMOKE DEVELOP.....LESS THAN 50
 6. MIN R6.0 FOR ATTIC/UNCONDITION SPACE.
 MANUFACTURER IS TO BE USED AS A BASIS FOR DESIGN. CONTACT ENGINEER OF RECORD TO SUBMIT ON APPROVED EQUALS.

SHEET NOTES

- DUCT SIZES SERVING DIFFUSERS AND GRILLES ARE SAME SIZE AS DIFFUSER OR GRILLE NECK UNLESS NOTED OTHERWISE.
- FLEXIBLE DUCT NOT SHOWN FOR CLARITY. ALL TAKE-OFFS SHALL INCLUDE FLEXIBLE DUCT. SEE DETAIL 1M-401 FOR FLEXIBLE DUCT INSTALLATION REQUIREMENTS.
- FOR SUPPLY AND RETURN OPENINGS, CUT OPENING AROUND DUCT DROPS 4" TO 8" MINIMUM (EXCEPT WHERE STRUCTURE PREVENTS THIS). SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- AT EACH PIECE OF ROOF EQUIPMENT, PROVIDE A PLASTIC ENGRAVED LABEL WITH 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. THE LABEL IS TO HAVE A SELF ADHESIVE BACKING.
- UNLESS NOTED OTHERWISE, MC TO ADJUST ALL DIFFUSER AIR PATTERN DEFLECTORS TO THROW HORIZONTALLY ALONG THE CEILING.
- SUPPORT ALL DUCT DROPS AT BASE OF DROP FROM STRUCTURE.

AIR BALANCE SCHEDULE					
Mark	SUPPLY AIR	RETURN AIR	OUTSIDE AIR	EXHAUST AIR	BUILDING POSITIVE PRESSURE
AC#1	9500	7500	2000		2000
AC#2	5600	4200	1400		1400
AC#3	6400	4800	1600		1600
EF#1				1913	-1913
EF#2				1402	-1402
EF#3				700	-700
	21500	16500	5000	4015	985

HVAC KEYNOTES

- TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. TRANSITION WITHIN CURB WHERE REQUIRED TO AVOID STRUCTURE. NO TURNING VANES IN ELBOW.
- 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.
- CAPTURE JET FAN MOUNTED INSIDE CABINERY SERVING SCJ PLENUM. SEE DETAIL ON MH-101.
- BRANCH TAKE-OFFS ARE NOT TO BE LOCATED CLOSER THAN 3'-0" FROM ANY ELBOW INCLUDING THE SUPPLY AIR DROP FROM CURB.
- NOT USED.
- STRONG SYSTEMS SHALL SUPPLY AND INSTALL CO₂ SENSOR ANALOG-AX60. SENSOR SHALL BE MOUNTED AT 12" AFF WITH SPLASH GUARD AND GAGE. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE-GANG J-BOX WITH 1/2" CONDUIT EXTENDED TO ABOVE ACCESSIBLE CEILING SPACE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND PER LOCAL CODE REQUIREMENTS. FIELD VERIFY EXACT LOCATION AND ALL REQUIREMENTS PRIOR TO BID AND CONSTRUCTION. FOR MORE INFORMATION CONTACT: STRONG SYSTEMS INTERNATIONAL, INC. CHRIS VERCH (770) 729-1199 OR (770) 462-2501.
- STRONG SYSTEMS SHALL SUPPLY AND INSTALL CO₂ ANNUNCIATOR MOUNTED AT 60" AFF. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE-GANG J-BOX WITH 1/2" CONDUIT EXTENDED TO ABOVE ACCESSIBLE CEILING SPACE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND PER LOCAL CODE. FIELD VERIFY EXACT LOCATION AND ALL REQUIREMENTS PRIOR TO BID AND CONSTRUCTION. FOR MORE INFORMATION CONTACT: STRONG SYSTEMS INTERNATIONAL, INC. CHRIS VERCH (770) 729-1199 OR (770) 462-2501.
- YOUNG REGULATOR MODEL 4075-LMB24-IF ROUND ZONE DAMPER WITH MODEL T-720A AUTOMATIC CHANGE-OVER THERMOSTAT. MOUNT TSTAT AT 4'-0" AFF. POWER OPEN/SPRING CLOSE. ADJUST MECHANICAL LIMIT FOR 50 CFM MINIMUM AIRFLOW. CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE ZONE DAMPER. THE MECHANICAL CONTRACTOR SHALL PURCHASE THE ZONE DAMPER DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010, FOR PRICING AND AVAILABILITY. ZONE DAMPERS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.
- MOUNT NEW LENOX HUMIDITY SENSOR AND REMOTE TEMPERATURE SENSOR ON WALL ABOVE SPACE TEMP SENSOR AND ROUTE WIRING TO UNIT ON ROOF.
- CEILING MOUNTED RECIRCULATING FAN. DUCT AND DISCHARGE ABOVE CEILING.
- STRONG SYSTEMS SHALL SUPPLY AND INSTALL CO₂ CENTRAL CONTROL UNIT MOUNTED AT 60" AFF. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE-GANG J-BOX WITH 1/2" CONDUIT EXTENDED TO ABOVE ACCESSIBLE CEILING SPACE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND PER LOCAL CODE. FIELD VERIFY EXACT LOCATION AND ALL REQUIREMENTS PRIOR TO BID AND CONSTRUCTION. COORDINATE WITH ELECTRICAL DRAWING E2.2 FOR EXACT LOCATION. FOR MORE INFORMATION CONTACT: STRONG SYSTEMS INTERNATIONAL, INC. CHRIS VERCH (770) 729-1199 OR (770) 462-2501.
- (2) 28"x20" SUPPLY AIR DUCT DROP AND (1) 60"x15" RETURN AIR DUCT DROP FROM AC UNITS.
- SUPPLY AIR DUCT ROUTED BELOW BAR JOIST AS HIGH AS POSSIBLE.
- RETURN AIR DUCT ROUTED BELOW BAR JOIST AS HIGH AS POSSIBLE.
- 14"ø BOTTOM TAP RETURN AIR DUCT WITH SPIN-IN FITTINGS AND DAMPER. REFER TO AIR DEVICE SCHEDULE FOR FURTHER INFORMATION.
- 8"ø BOTTOM TAP SUPPLY AIR DUCT WITH SPIN-IN FITTINGS AND DAMPER. REFER TO AIR DEVICE SCHEDULE FOR FURTHER INFORMATION.
- CONTRACTOR SHALL INSTALL AND ROUTE NEW INSULATED REFRIGERANT PIPING FROM ROOF MOUNTED REMOTE CONDENSER TO FREEZER & COOLER EVAPORATORS.
- AIR CURTAIN (AD-1) MOUNTED WITHIN CEILING CENTERED ABOVE DRIVE THRU DOOR 4" FROM THE EXTERIOR WALL AND (AD-2) MOUNTED WITHIN THE CEILING CENTERED ABOVE THE DRIVE THRU DOOR 1'-6" FROM THE EXTERIOR WALL. PROVIDE AIR DEFLECTOR CONE ABOVE DOOR FOR (AD-1). ATTACH AIR CURTAIN TO STRUCTURE USING 3/8" ALL THREAD SUPPORTS.
- FIELD WIRE FACTORY PROVIDED CONTROLS. SEE KITCHEN ELEVATIONS FOR EXACT LOCATION OF SWITCH. MC IS RESPONSIBLE FOR ALL FINAL CONNECTIONS FOR LOW VOLTAGE INTERLOCK WITH TORMAX DOOR. REFER TO DETAIL 4M-501 FOR INFORMATION.
- AIR DOOR MOUNTED OVER DOOR HEADER AT 7'-4" 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.
- MECHANICAL CONTRACTOR TO ADJUST PATTERN DEFLECTORS TO THROW STRAIGHT DOWN.
- MECHANICAL CONTRACTOR TO INSTALL THE DUCTWORK IN COORDINATION WITH THE STRUCTURAL TRUSSES.
- PROVIDE 120V/24V 50 VA TRANSFORMER TO SERVE YOUNG REGULATOR ZONE DAMPER ACTUATOR AND THERMOSTAT. POWER TRANSFORMER FROM 120V POWER CIRCUIT THAT REMAINS LIVE 24/7. PROVIDE ALL NECESSARY WIRING AND COMPONENTS TO MAKE CONTROL AND POWER CONNECTIONS TO TRANSFORMER, ZONE DAMPER, AND THERMOSTAT PER MANUFACTURER'S IOM. THERE IS NO INTERLOCKING OR MONITORING BY WAY OF THE S.E.C. CFA-500 PANEL. SEE WIRING DIAGRAMS ON M-501.
- 14"x14" EXHAUST DUCT UP TO EF#3.

FBC ENERGY CONSERVATION CODE, C403.2.1, CALCULATION OF HEATING AND COOLING LOADS

PROJECT NAME : CHICK-FIL-A ATLANTIC & HODGES
 PROJECT ADDRESS : 13375 ATLANTIC BLVD, JACKSONVILLE, FL 32225
 SIZING METHOD USED : TET/DTA (TOTAL EQUIVALENT TEMPERATURE DIFFERENCE/TIME AVERAGING)
 SUMMER OUTDOOR DRY BULB USED (0.4%): 94.4 °F
 SUMMER OUTDOOR WET BULB USED (0.4%): 76.8 °F
 WINTER OUTDOOR DRY BULB USED (99.6%): 32.9 °F
 WINTER OUTDOOR WET BULB USED (99.6%): 27.4 °F
 INDOOR DESIGN TEMPERATURE (SUMMER) OCCUPIED MODE : 75 °F
 INDOOR DESIGN TEMPERATURE (SUMMER) UNOCCUPIED MODE : 80 °F
 RELATIVE HUMIDITY : 55% RH
 INDOOR DESIGN TEMPERATURE (WINTER) OCCUPIED MODE : 70 °F
 INDOOR DESIGN TEMPERATURE (WINTER) UNOCCUPIED MODE : 65 °F
 CLIMATE ZONE : 2A

ZONE	AREA (SQ. FT.)	COOLING CAPACITY			GRAINS OF WATER/LB OF AIR			HEATING CAPACITY
		TOTAL (MBH)	SENSIBLE (MBH)	LATENT (MBH)	ENTERING	LEAVING	DIFFERENCE	
AC#1	2045	279.3	162.5	116.8	91.4	63.5	27.9	205.1
AC#2	575	203.4	123.5	79.9	84.6	63.5	21.1	161.1
AC#3	2580	224.4	122.3	102.1	92.3	63.5	28.8	167.4

* ABOVE LISTED CAPACITIES INCLUDE OUTSIDE AIR REQUIRED TO MEET FLORIDA MECHANICAL CODE.

VENTILATION SCHEDULE									
SPACE	TYPE	NET AREA (SF)	NO. OF PEOPLE (ROUNDED)	OUTDOOR AIR RATE PEOPLE (CFM/Person)	OUTDOOR AIR RATE AREA (CFM/SF)	OUTDOOR AIRFLOW RATE REQUIRED IN THE BREATHING ZONE - Voz (CFM)	ZONE AIR DISTRIBUTION EFFECTIVENESS Ez	ZONE OUTDOOR AIRFLOW Voz (CFM)	APPROX. OUTDOOR AIR INTAKE FLOW RATE (CFM)
AC#1									
BOH	General : Occupiable storage rooms for liquids or gels	201	1	5	0.12	29	0.8	36	40
UTILITY & SERVICE	General : Occupiable storage rooms for liquids or gels	365	1	5	0.12	49	0.8	61	65
OFFICE	Offices: Office spaces	53	3	5	0.06	18	0.8	23	25
KITCHEN	Food and beverage service: Kitchens (cooking)	1380	12	7.5	0.12	256	0.8	320	320
MINIMUM REQUIRED OUTSIDE AIR									450
ACTUAL OUTSIDE AIR SET FOR AC#1									2000
AC#2									
DRIVE THRU	Food and beverage service: Kitchens (cooking)	368	8	7.5	0.12	104	0.8	130	130
SERVING	Food and beverage service: Kitchens (cooking)	200	8	7.5	0.12	84	0.8	105	105
MINIMUM REQUIRED OUTSIDE AIR									235
ACTUAL OUTSIDE AIR SET FOR AC#2									1400
AC#3									
RR VEST.	Offices: Main entry lobbies	57	0	5	0.06	3	0.8	4	5
ENTRY VEST	Offices: Main entry lobbies	56	0	5	0.06	3	0.8	4	5
ORDER	Food and beverage service: Dining rooms	189	25	7.5	0.18	222	0.8	277	280
PLAY AREA	Sports and amusement: Game arcades	307	5	7.5	0.18	37	0.8	46	45
TEAM MEMBER ROOM	Offices: Office spaces	196	5	5	0.08	37	0.8	24	25
MULTI-PURPOSE	Offices: Office spaces	69	3	5	0.06	19	0.8	119	1120
DINING	Food and beverage service: Dining rooms	1224	90	7.5	0.18	895	0.8	1119	1120
MINIMUM REQUIRED OUTSIDE AIR									1600
ACTUAL OUTSIDE AIR SET FOR AC#3									1600

CHICK-FIL-A
 ATLANTIC & HODGES
 13375 ATLANTIC BLVD
 JACKSONVILLE, FL 32225

FSR#01139
 BUILDING TYPE / SIZE: P13 LE LRG
 RELEASE: 22:05

REVISION SCHEDULE	
NO.	DATE DESCRIPTION
1	07/08/2024 PERMIT REV 1
3	10/04/2024 BIDD ADD 2
4	11/12/2024 CONST REV 1

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MECHANICAL FLOOR PLAN
 SHEET NUMBER : M-201

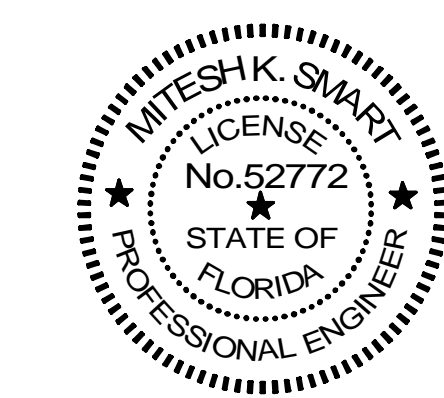
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Chick-fil-A

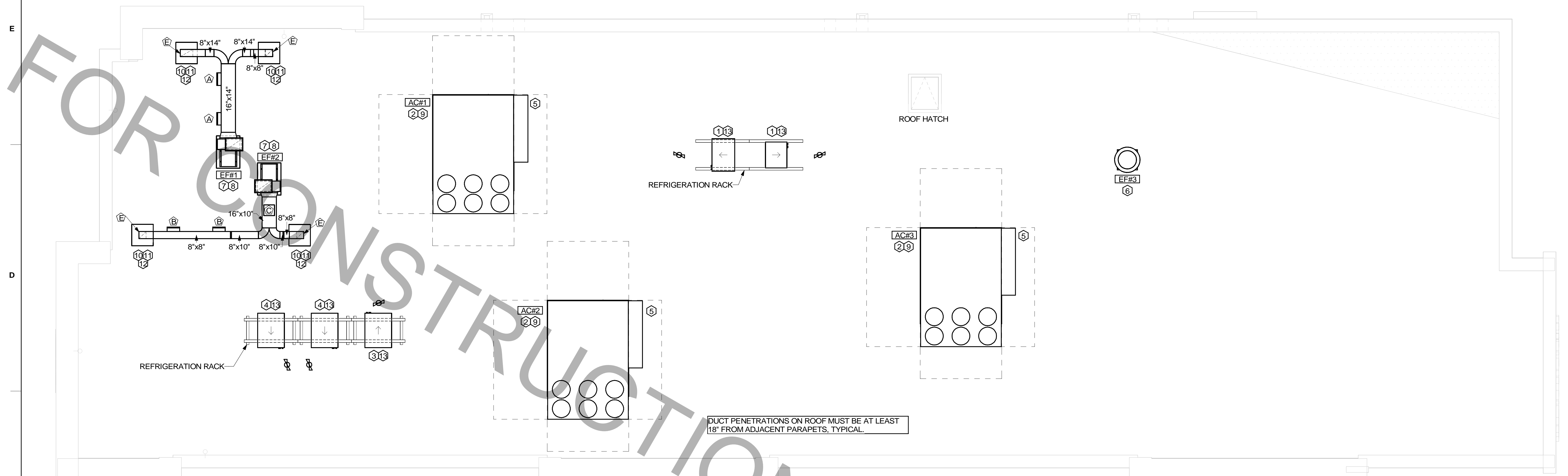
Chick-fil-A
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TEL: (407) 679-6462
COA # 35434



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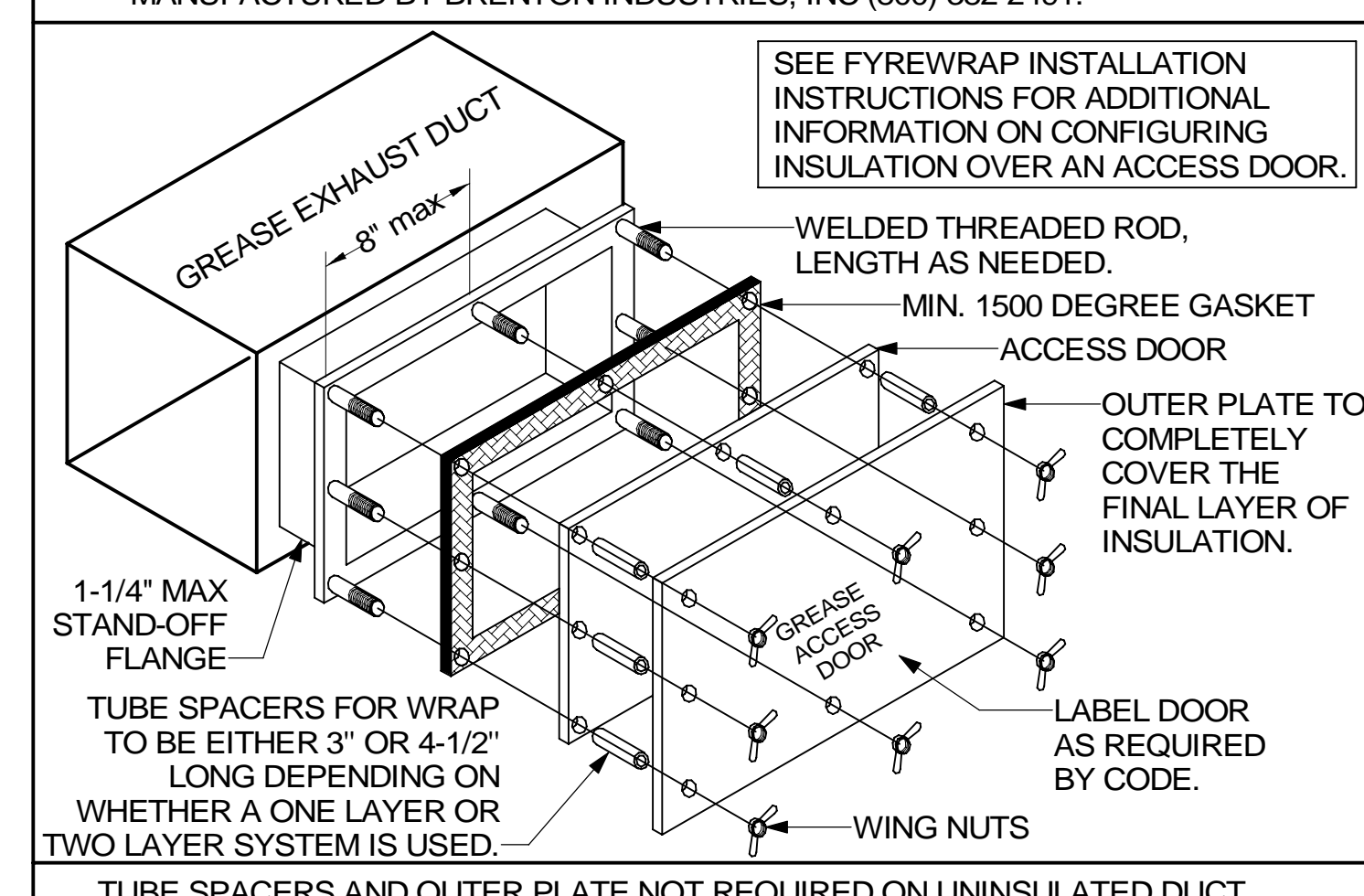


1 MECHANICAL ROOF PLAN
1/4" = 1'-0"

GREASE ACCESS DOOR SCHEDULE

MARK	OPENING SIZE	DOOR SIZE	REMARKS
A	9H X 14W	11H X 16W	1
B	5.5H X 14W	7.5H X 16W	1
C	12H X 12W	14H X 14W	1
D	10H X 14W	12H X 16W	1
E	6H X 14W	8H X 16W	1

1. 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 ASSEMBLY SHALL BE WELDED IN PLACE TO THE GREASE EXHAUST DUCT AND THE ACCESS DOOR SHALL BE SECURED WITH THUMB SCREWS. ACCESS DOORS SHALL BE SEALED WITH A MINIMUM 1500 DEGREE GASKET MATERIAL EQUIVALENT TO THAT MANUFACTURED BY BRENTON INDUSTRIES, INC (800) 382-2491.



MECHANICAL GENERAL NOTES:

- ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
- ALL DIMENSIONS, CLEARANCES AND TOLERANCES SHALL BE VERIFIED PRIOR TO INSTALLATION.
- ALL MATERIALS, FIXTURES AND EQUIPMENT USED SHALL BE IN ACCORDANCE WITH CHICK-FIL-A SPECIFICATIONS. SPECIFICATIONS ARE CONTAINED WITHIN THESE DRAWINGS ANY VARIANCE FROM THE CHICK-FIL-A SPECIFICATIONS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER-OF-RECORD.
- ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ITS LISTING AND/OR THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- SEE COORDINATION SCHEDULE FOR ADDITIONAL SCOPE OF WORK.
- AT EACH PIECE OF ROOF EQUIPMENT, PROVIDE UNIT DESIGNATION ON A PLASTIC ENGRAVED LABEL WITH 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. THE LABEL IS TO HAVE A SELF ADHESIVE BACKING.
- MAINTAIN 18" CLEARANCE FROM GREASE EXHAUST DUCTWORK ABOVE ROOF TO ANY COMBUSTIBLE CONSTRUCTION INCLUDING PARAPET WALLS.

KEY NOTES:

- CONTRACTOR TO INSTALL FREEZER/COOLER CONDENSING UNITS ON RACK STAND. ROUTE INSULATED REFRIGERANT PIPING DOWN THROUGH REFRIGERANT GOOSENECK TO FREEZER/ COOLER EVAPORATOR BELOW.
- CONTRACTOR SHALL INSTALL LENNOX AC WITH ROOF CURB. CONTRACTOR SHALL COORDINATE ROOF PENETRATION OPENINGS. REFER TO RTU SCHEDULE FOR FURTHER INFORMATION.
- INSTALL CONDENSING UNIT AND CONNECT REFRIGERANT PIPING THROUGH REFRIGERANT GOOSENECK TO KITCHEN ICE MAKER ROUTED BELOW.
- INSTALL CONDENSING UNIT AND CONNECT REFRIGERANT PIPING THROUGH REFRIGERANT GOOSENECK TO DRIVE-THRU ICE MAKER ROUTED BELOW.
- OUTSIDE AIR INTAKE HOOD. ENSURE THAT HOOD INTAKE IS A MINIMUM OF 10'-0" FROM ANY EXHAUST OR PLUMBING VENT DISCHARGE.
- CONTRACTOR SHALL INSTALL RESTROOM EXHAUST FAN PER EXHAUST FAN SCHEDULE ON MECHANICAL SHEET M-401.
- FABRICATE DISCHARGE AIR NOZZLE. VERIFY EXHAUST TERMINATION IS A MINIMUM 10'-0" FROM PARAPETS AND OUTSIDE AIR INTAKES. SEE DETAIL 3/M-401.
- 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. THE MC MAY ADD A VERTICAL RISER AT THE RADIUS ELBOW LOCATED AT THE DUCT CURB AS NEEDED IN ORDER TO CENTER THE DUCT ON THE FAN INLET.
- MECHANICAL CONTRACTOR TO SEE ARCHITECTURAL ROOF PLAN FOR NOTES REGARDING LEVELING FRAMES FOR RTUS. COORDINATE WITH GENERAL CONTRACTOR EXACT LOCATIONS AND SIZE NEEDED.
- ROOF CURB FOR DUCT PENETRATION. SEE DETAIL 3/M-401.
- TURN DOWN THRU ROOF. SEE M-201 FOR CONTINUATION.
- ACCESS DOOR ON TOP OF DUCT.
- 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.

CHICK-FIL-A
ATLANTIC & HODGES
13375 ATLANTIC BLVD
JACKSONVILLE, FL 32225

FSR#01139
BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 22.05

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # C29147
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SHEET MECHANICAL ROOF PLAN

SHEET NUMBER
M-250

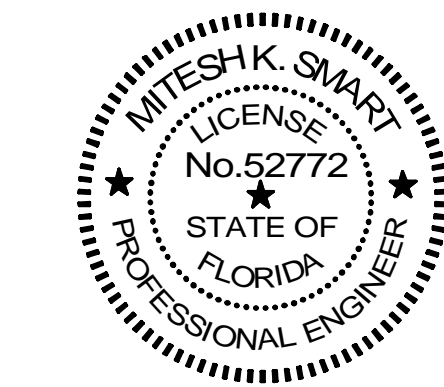
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Chick-fil-A

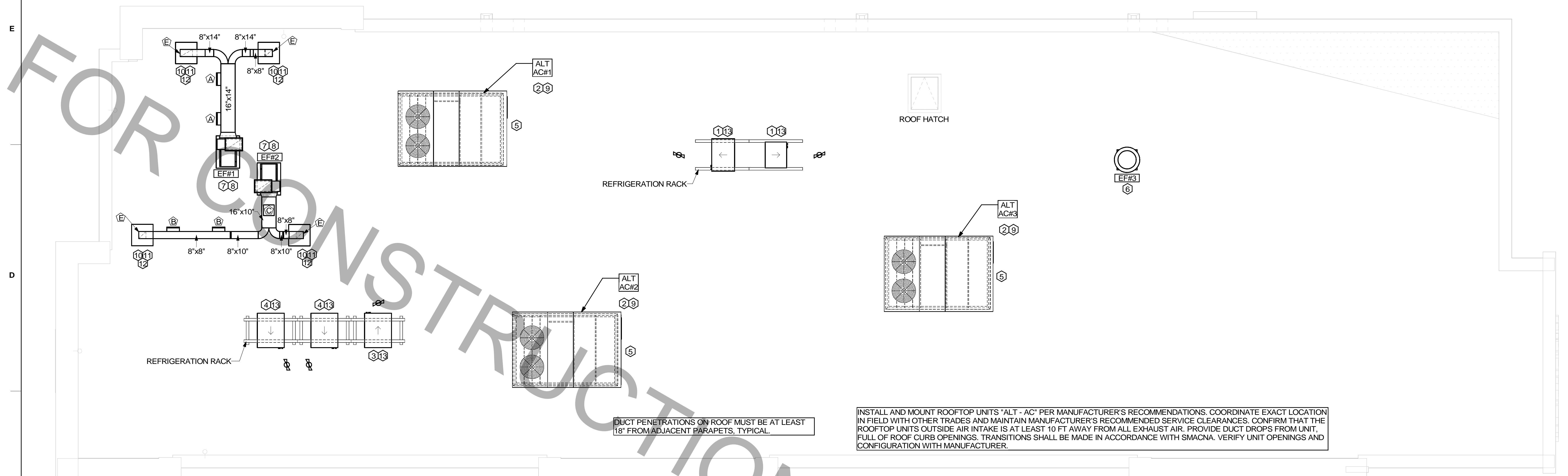
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DUCT PENETRATIONS ON ROOF MUST BE AT LEAST 18" FROM ADJACENT PARAPETS, TYPICAL.

INSTALL AND MOUNT ROOFTOP UNITS "ALT - AC" PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE EXACT LOCATION IN FIELD WITH OTHER TRADES AND MAINTAIN MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES. CONFIRM THAT THE ROOFTOP UNITS OUTSIDE AIR INTAKE IS AT LEAST 10 FT AWAY FROM ALL EXHAUST AIR. PROVIDE DUCT DROPS FROM UNIT, FULL OF ROOF CURB OPENINGS. TRANSITIONS SHALL BE MADE IN ACCORDANCE WITH SMACNA. VERIFY UNIT OPENINGS AND CONFIGURATION WITH MANUFACTURER.

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

GAS FIRED ROOFTOP UNIT ALTERNATE DESIGN SCHEDULE - LARGE BLDG												
MARK	GROSS TOTAL COOLING CAPACITY	GROSS SENSIBLE COOLING CAPACITY	HEATING INPUT MBH	HEATING OUTPUT MBH	STAGES	SUPPLY	O.A.	HP	ESP	MODEL R-410A	MANUFACTURER	REMARKS
ALT AC#1	272	220	400	320	2	9500	2000	7.5	0.8	YSD300	TRANE	1,3,4,6,7,8,9,10,11,12,13,15,16
ALT AC#2	198	140	350	280	2	5600	1400	5	0.8	YHD210	TRANE	2,3,4,6,7,8,9,10,11,12,13,15,16
ALT AC#3	242	170	400	320	2	6400	1600	5	0.8	YHD240	TRANE	2,3,4,6,7,8,9,10,11,12,13,15,16
NOTES	<ul style="list-style-type: none"> COOLING CAPACITIES ARE GROSS, BASED ON ENTERING: 80°FDB/67°FWB, OUTDOOR: 95°FDB CHICK-FIL-A MAINTAINS A NATIONAL ACCOUNT FOR EQUIPMENT WITH TRANE CORPORATION. CONTACT TRANE TECH SUPPORT AT 866-986-4822 FOR PRICING, ORDERING AND AVAILABILITY OR BY EMAIL CFA@TRANE.COM. MECHANICAL CONTRACTOR TO VERIFY TRANE SUBMITTAL WITH CONSTRUCTION DOCUMENTS. 											
REMARKS	<ol style="list-style-type: none"> PROVIDE DIFFERENTIAL ENTHALPY ECONOMIZER WITH POWER EXHAUST. PROVIDE DIFFERENTIAL ENTHALPY ECONOMIZER WITH BAROMETRIC EXHAUST. PROVIDE 14" HIGH ROOF CURB. SEE DETAIL 2/M-501a FOR SETTING OF PRODIGY M3 BOARD CONTROL PARAMETERS BY MC. NOT USED. PROVIDE FACTORY INSTALLED 115V GFI SERVICE OUTLET. PROVIDE FACTORY INSTALLED RETURN SIDE SMOKE DETECTOR. PROVIDE FACTORY INSTALLED NON-FUSED DISCONNECT. PROVIDE 2" MERV 8 THROW AWAY FILTERS. PROVIDE HINGED PANELS FOR FILTER ACCESS, FAN MOTOR ACCESS, COMPRESSOR ACCESS AND CONTROL COMPARTMENT ACCESS. PROVIDE FACTORY INSTALLED CONDENSATE OVERFLOW SWITCH. PROVIDE FACTORY COIL HAIL GUARD, FIELD INSTALLED. PROVIDE HUMIDITROL OPTION WITH FACTORY WALL MOUNTED HUMIDITY SENSOR. NOT USED. PROVIDE FACTORY CONFIGURED PHASE LOSS PROTECTION. PROVIDE WITH STANDARD SCCR RATING. REFER TO DESIGN NOTE 2022-007 FOR MORE INFORMATION. 											

- MECHANICAL GENERAL NOTES:
- ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
 - ALL DIMENSIONS, CLEARANCES AND TOLERANCES SHALL BE VERIFIED PRIOR TO INSTALLATION.
 - ALL MATERIALS, FIXTURES AND EQUIPMENT USED SHALL BE IN ACCORDANCE WITH CHICK-FIL-A SPECIFICATIONS. SPECIFICATIONS ARE CONTAINED WITHIN THESE DRAWINGS ANY VARIANCE FROM THE CHICK-FIL-A SPECIFICATIONS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER-OF-RECORD.
 - ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ITS LISTING AND/OR THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - SEE COORDINATION SCHEDULE FOR ADDITIONAL SCOPE OF WORK.
 - AT EACH PIECE OF ROOF EQUIPMENT, PROVIDE UNIT DESIGNATION ON A PLASTIC ENGRAVED LABEL WITH 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. THE LABEL IS TO HAVE A SELF ADHESIVE BACKING.
 - MAINTAIN 18" CLEARANCE FROM GREASE EXHAUST DUCTWORK ABOVE ROOF TO ANY COMBUSTIBLE CONSTRUCTION INCLUDING PARAPET WALLS.

- KEY NOTES:
- CONTRACTOR TO INSTALL FREEZER/COOLER CONDENSING UNITS ON RACK STAND. ROUTE INSULATED REFRIGERANT PIPING DOWN THROUGH REFRIGERANT GOOSENECK TO FREEZER/ COOLER EVAPORATOR BELOW.
 - CONTRACTOR SHALL INSTALL TRANE AC WITH ROOF CURB. CONTRACTOR SHALL COORDINATE ROOF PENETRATION OPENINGS. REFER TO RTU SCHEDULE FOR FURTHER INFORMATION.
 - INSTALL CONDENSING UNIT AND CONNECT REFRIGERANT PIPING THROUGH REFRIGERANT GOOSENECK TO KITCHEN ICE MAKER ROUTED BELOW.
 - INSTALL CONDENSING UNIT AND CONNECT REFRIGERANT PIPING THROUGH REFRIGERANT GOOSENECK TO DRIVE-THRU ICE MAKER ROUTED BELOW.
 - OUTSIDE AIR INTAKE HOOD. ENSURE THAT HOOD INTAKE IS A MINIMUM OF 10'-0" FROM ANY EXHAUST OR PLUMBING VENT DISCHARGE.
 - CONTRACTOR SHALL INSTALL RESTROOM EXHAUST FAN PER EXHAUST FAN SCHEDULE ON MECHANICAL SHEET M-401.
 - FABRICATE DISCHARGE AIR NOZZLE. VERIFY EXHAUST TERMINATION IS A MINIMUM 10'-0" FROM PARAPETS AND OUTSIDE AIR INTAKES. SEE DETAIL 3/M-401.
 - 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. THE MC MAY ADD A VERTICAL RISER AT THE RADIUS ELBOW LOCATED AT THE DUCT CURB AS NEEDED IN ORDER TO CENTER THE DUCT ON THE FAN INLET.
 - MECHANICAL CONTRACTOR TO SEE ARCHITECTURAL ROOF PLAN FOR NOTES REGARDING LEVELING FRAMES FOR RTUS. COORDINATE WITH GENERAL CONTRACTOR EXACT LOCATIONS AND SIZE NEEDED.
 - ROOF CURB FOR DUCT PENETRATION. SEE DETAIL 3/M-401.
 - TURN DOWN THRU ROOF. SEE M-201 FOR CONTINUATION.
 - ACCESS DOOR ON TOP OF DUCT.
 - 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.

CHICK-FIL-A
ATLANTIC & HODGES
13375 ATLANTIC BLVD
JACKSONVILLE, FL 32225

FSR#01139
BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 22.05

REVISION SCHEDULE
NO. DATE DESCRIPTION

CONSULTANT PROJECT # C29147
PRINTED FOR PERMIT
DATE 09/22/2023
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SHEET
ALTERNATE MECHANICAL ROOF PLAN - TRANE

PERMIT SHEET NUMBER
M-250a

Autodesk Docs://FL_01139_Atlantic & Hodges FSR01139_Atlantic & Hodges FSU_MEC.rvt
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30-LE-01139-M-250a-ALTERNATE MECHANICAL ROOF PLAN - TRANE

HOOD COMBUSTIBLE CLEARANCE NOTE

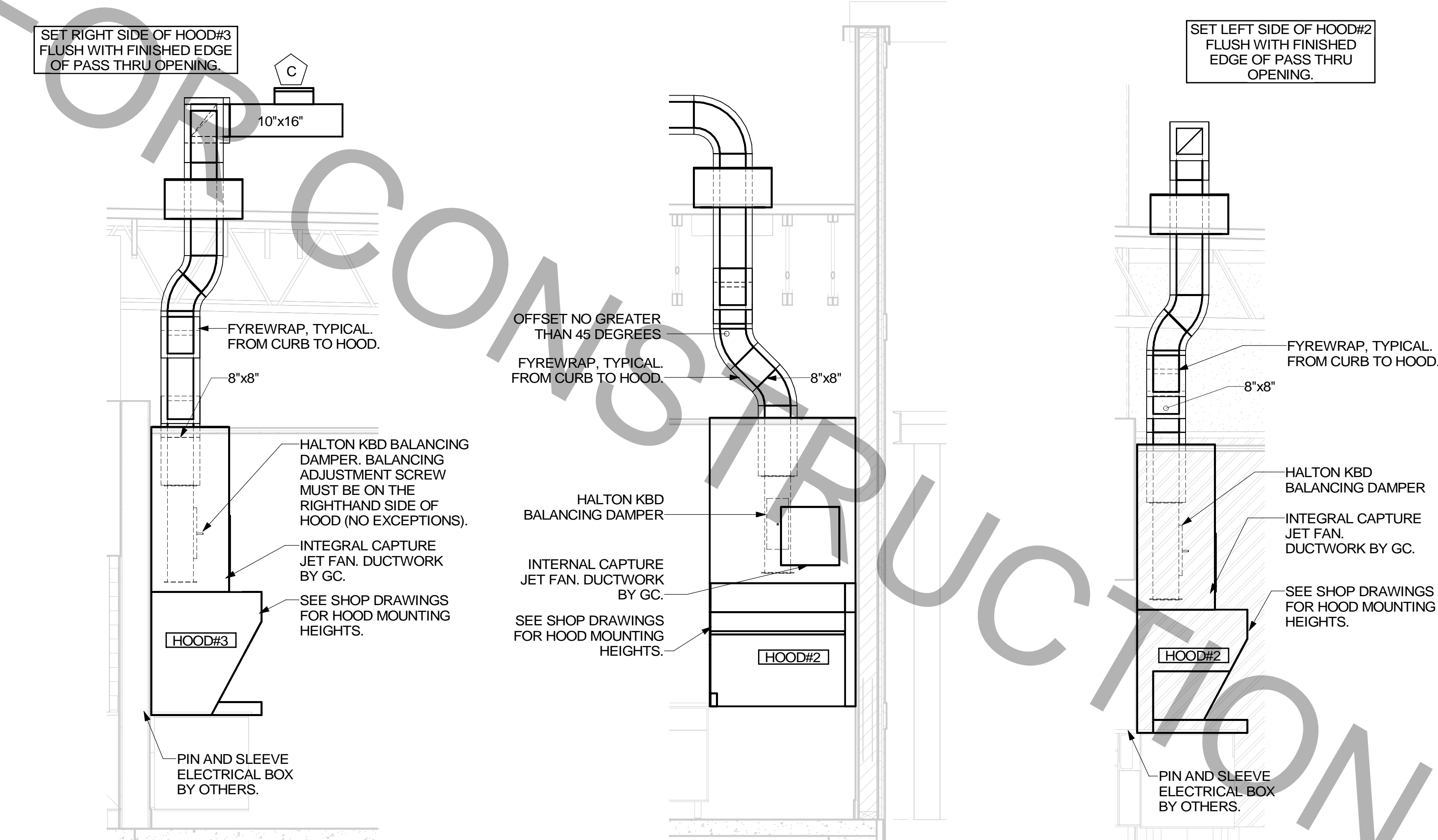
ALL NEW HOODS SHALL BE RATED WITH ONE INCH THICK LAYER OF FACTORY INSTALLED INSULATION TO MEET "ZERO INCH CLEARANCE" TO COMBUSTIBLE MATERIALS. HOOD SHALL BE CERTIFIED BY ETL SPECIFICATIONS, AND SHALL CONFORM TO UL STANDARD 710, BUILT PER NFPA 96 SECTION 4.2.2., AND NSF LISTED.

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.

HOOD ELEVATION NOTE

SEE DETAILS ON HALTON SHOP DRAWINGS ON SHEET MH-101 FOR DETAILS ON ELEVATION, STANDOFFS, CLEARANCES, AND HOOD CONSTRUCTION.



6 HOOD ELEVATION - HOOD#3
NOT TO SCALE

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

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

HOOD SCHEDULE

MARK	EXHAUST CFM	SP @ TAB PORT	CAPTURE JET CFM & S.P.	TYPE	COLLAR SIZE	WIDTH	DEPTH	HEIGHT	MANUFACTURER	MODEL	REMARKS
HOOD#1L	1204	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#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, 21, 22
HOOD#2	701	.30'	30 @ 0.29"	BACKSHELF	8"x8"	42"	34"	38"	HALTON	KVL-C-IC	1, 2, 3, 6, 7, 8, 9, 11, 12, 13, 15, 16, 18, 21
HOOD#3	701	.30'	30 @ 0.29"	BACKSHELF	8"x8"	42"	34"	38"	HALTON	KVL-C-IC	1, 2, 3, 6, 7, 8, 9, 10, 12, 13, 17, 21

NOTES: DIMENSIONS OF HOODS INCLUDE BACK AND SIDE SPACERS (HEIGHT DOES NOT INCLUDE CLOSURE PANELS).

REMARKS:

1. STAINLESS STEEL CONSTRUCTION.
2. PROVIDE FULL HEIGHT SS CLOSURE PANEL WITH ACCESS PANEL IN FRONT LARGE ENOUGH TO REMOVE CAPTURE JET FAN, SERVICE ANSUL COMPONENTS, AND/OR TO ACCESS KBD EQUALIZER JACK SCREW.
3. PROVIDE PRE-PIPED ANSUL R-102 WET FIRE EXTINGUISHING SYSTEM.
4. ANSUL CABINET AND COMPONENTS ABOVE HOOD ON LEFT SIDE.
5. PROVIDE 3" ZERO CLEARANCE TO COMBUSTIBLE BACK SPACER.
6. PROVIDE 3" ZERO CLEARANCE TO COMBUSTIBLE CUSTOM BACK SPACER TO ACCOMMODATE PIN AND SLEEVE ELECTRICAL BOX.
7. PROVIDE EQUIPMENT I.D. LABELS LOCATED ON FRONT LEADING EDGE OF HOOD.
8. PROVIDE FACTORY WALL MOUNTING ANGLE AT TOP OF HOOD.
9. PROVIDE TOP PLENUM CAPTURE JET FAN, SPEED CONTROLLER AND COLLAR.
10. PROVIDE FACTORY INSTALLED INTEGRAL SIDE JET ARM ON RIGHT END.
11. PROVIDE FACTORY INSTALLED INTEGRAL SIDE JET ARM ON LEFT END.
12. PROVIDE CAPTURE JET AIR INLET AND COLLAR AT FRONT OF CLOSURE PANEL.
13. PROVIDE PIN AND SLEEVE ELECTRICAL BOX (DOUBLE CONNECTION). SEE ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
14. PROVIDE PIN AND SLEEVE ELECTRICAL BOX (SINGLE CONNECTION). SEE ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
15. PROVIDE 3" ZERO CLEARANCE TO COMBUSTIBLE RIGHT SIDE SPACER.
16. PROVIDE NOTCHED LEFT END SIDE PANEL.
17. PROVIDE NOTCHED RIGHT END SIDE PANEL.
18. PROVIDE 3"x3" HORIZONTAL AND VERTICAL TRIM ANGLE FOR RIGHT SIDE OF HOOD TO FINISH OFF GAP AT WALL.
19. PROVIDE FULL LEFT END SIDE PANEL.
20. PROVIDE FULL RIGHT END SIDE PANEL.
21. PROVIDE HALTON KBD EQUALIZER.
22. CONTINUOUS CAPTURE INTERNAL LEFT END CUTOUT.
23. CONTINUOUS CAPTURE INTERNAL RIGHT END CUTOUT.

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 ANSUL SYSTEM FURNISHED BY HALTON. THE HOOD SHALL BE FURNISHED PRE-PIPED BY HALTON.
3. THE R-102 ANSUL FIRE SUPPRESSION SYSTEM EXTERNAL TO THE HOODS SHALL BE INSTALLED IN ACCORDANCE WITH HOOD MANUFACTURER'S SHOP DRAWINGS BY AN AUTHORIZED ANSUL SYSTEM INSTALLER SELECTED AND HIRED BY HALTON.
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, NO EXCEPTIONS ALLOWED. 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 FYREW/WRAP. INSULATION ON ACCESS DOORS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTALLATION RECOMMENDATIONS. UNIFRAX FYREW/WRAP PRODUCT USED SHALL MEET LOCAL CODE REQUIREMENTS.
9. SUPPORT 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.

H.E.S.S. SYSTEMS NOTES

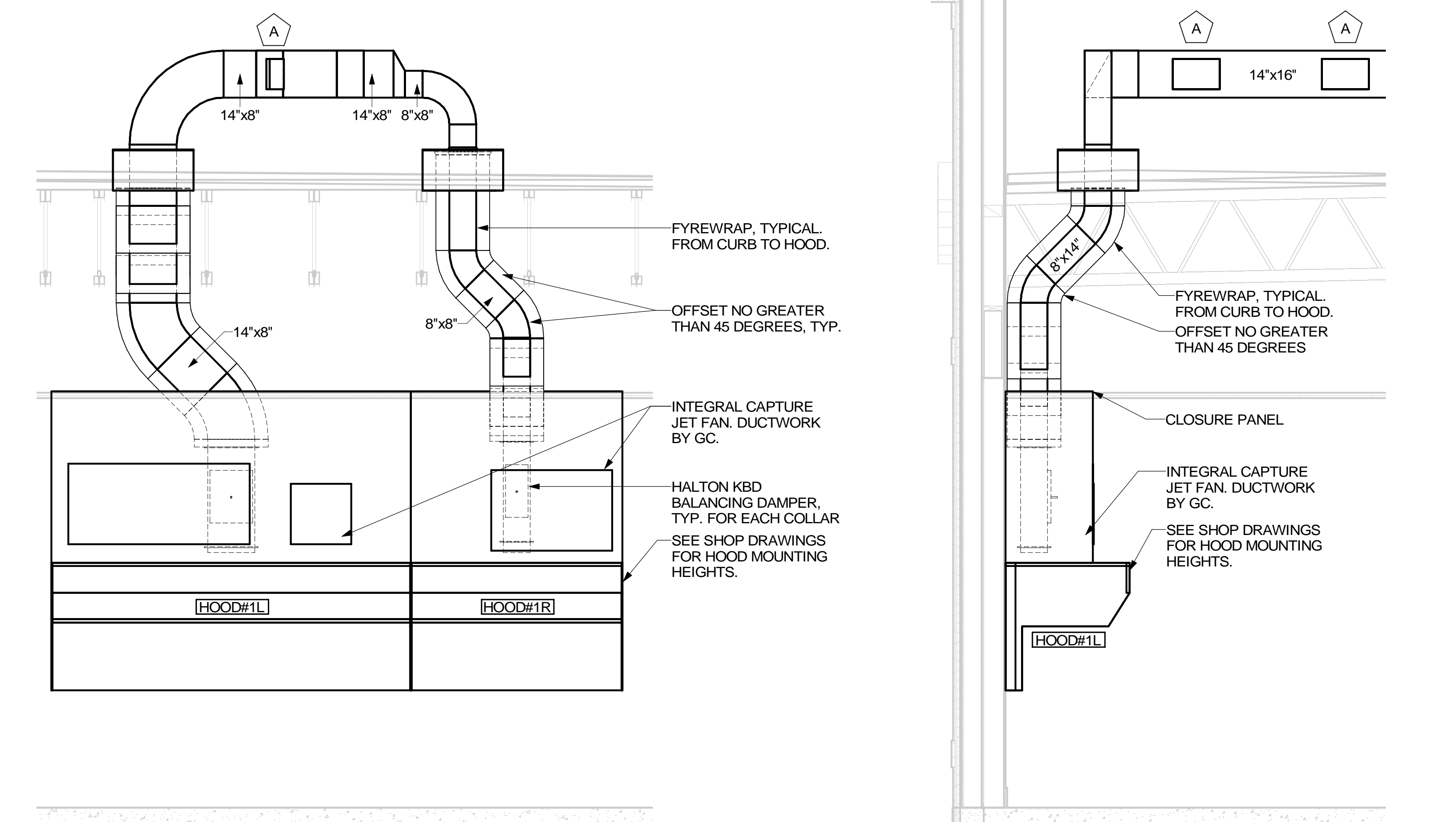
MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL SUNCOAST H.E.S.S. SYSTEM FOR ALL NEW HOODS. SEE FAN AND EQUIPMENT INTERLOCK WIRING DIAGRAM ON SHEET M-501

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.

CAPTURE JET NOTE

REFER TO "CAPTURE JET FAN INSTALLATION AND DIMENSIONAL DATA" SCHEDULE ON HALTON SHOP DRAWINGS (SHEET MH-101) FOR INFORMATION ON CAPTURE JET FAN.



3 HOOD ELEVATION - HOOD#1 - FRONT
NONE

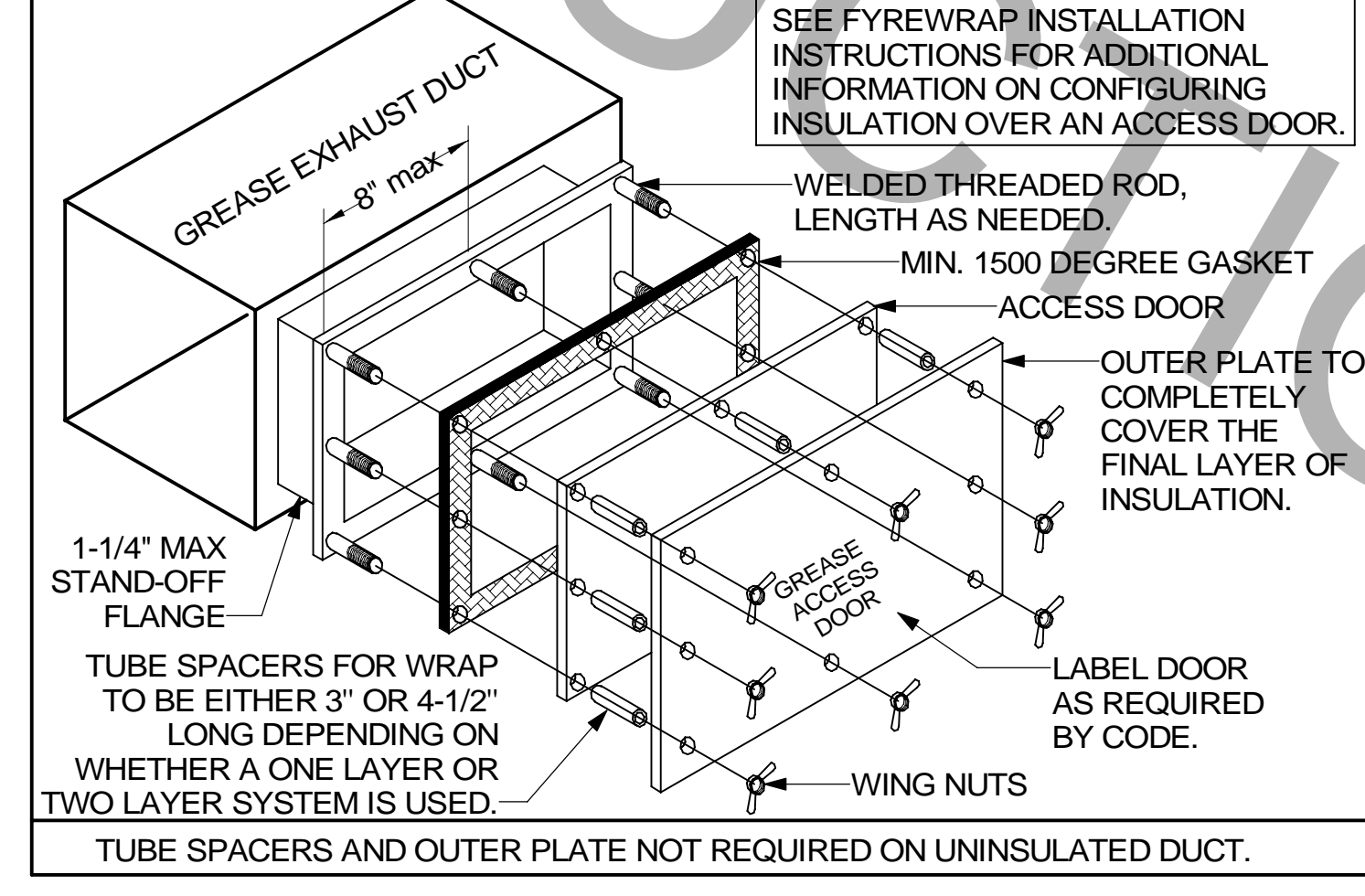
2 HOOD ELEVATION - HOOD#1 - SIDE
NOT TO SCALE

1 HOOD LAYOUT
1/8" = 1'-0"

GREASE ACCESS DOOR SCHEDULE

MARK	OPENING SIZE	DOOR SIZE	REMARKS
A	9H X 14W	11H X 16W	1
B	5.5H X 14W	7.5H X 16W	1
C	12H X 12W	14H X 14W	1
D	10H X 14W	12H X 16W	1
E	6H X 14W	8H X 16W	1

1. 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 ASSEMBLY SHALL BE WELDED IN PLACE TO THE GREASE EXHAUST DUCT AND THE ACCESS DOOR SHALL BE SECURED WITH THUMB SCREWS. ACCESS DOORS SHALL BE SEALED WITH A MINIMUM 1500 DEGREE GASKET MATERIAL EQUIVALENT TO THAT MANUFACTURED BY BRENTON INDUSTRIES, INC (800) 382-2491.



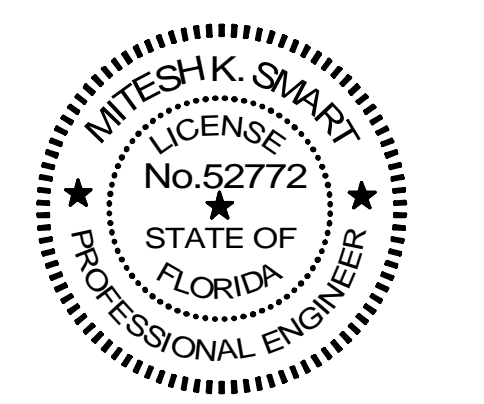
ANSUL PULL STATION SERVING BOTH HOOD#2 AND HOOD#3. LOCATE ANSUL PULL STATION BETWEEN 42" AND 48" AFF. COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT ELEVATIONS. J-BOX AND CONDUIT ARE BY ELECTRICAL. PROVIDE RED BAKELITE LABEL WITH 1/4" HIGH WHITE LETTERS INDICATING THE HOODS SERVED, I.E.: "PASS THRU HOODS".

ANSUL PULL STATION SERVING HOOD#1. LOCATE ANSUL PULL STATION BETWEEN 42" AND 48" AFF. COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT ELEVATIONS. J-BOX AND CONDUIT ARE BY ELECTRICAL. PROVIDE RED BAKELITE LABEL WITH 1/4" HIGH WHITE LETTERS INDICATING THE HOODS SERVED, I.E.: "MAIN COOKLINE HOOD".



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

ISP INTERNATIONAL SERVICE PARTNERS, LLC
 386 S ATLANTIC AVE. UNIT 9
 ORMOND BEACH, FL 32176
 TEL: (407) 679-6462
 COA # 35434



This item has been electronically signed and sealed by Mitchell K. Smart on the date adjacent to the seal using a SFA authentication code.

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CHICK-FIL-A
ATLANTIC & HODGES
 13375 ATLANTIC BLVD
 JACKSONVILLE, FL 32225

FSR#01139
 BUILDING TYPE / SIZE: P13 LE LRG
 RELEASE: 22.05

REVISION SCHEDULE
 NO. DATE DESCRIPTION

CONSULTANT PROJECT # C29147
 PRINTED FOR PERMIT
 DATE 09/22/2023
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 SHEET HOOD DETAILS AND SCHEDULES
 SHEET NUMBER

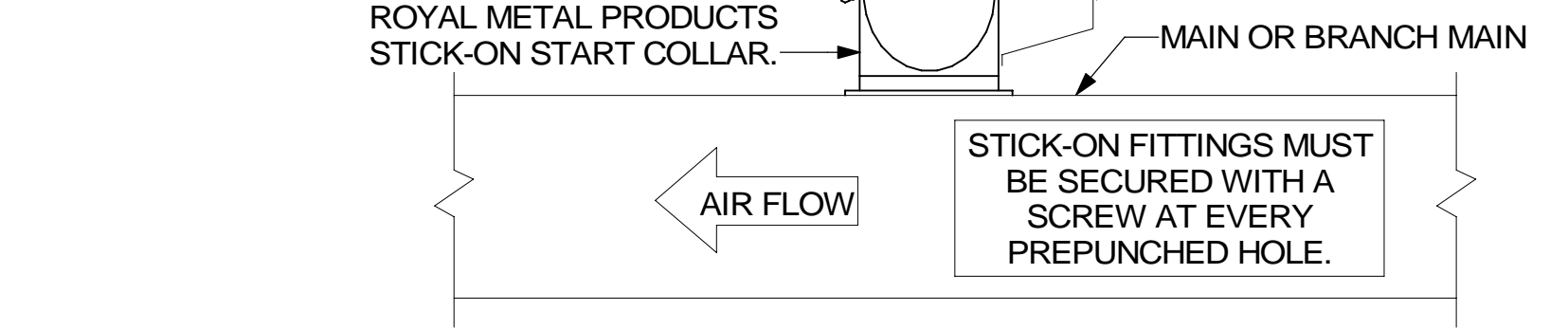
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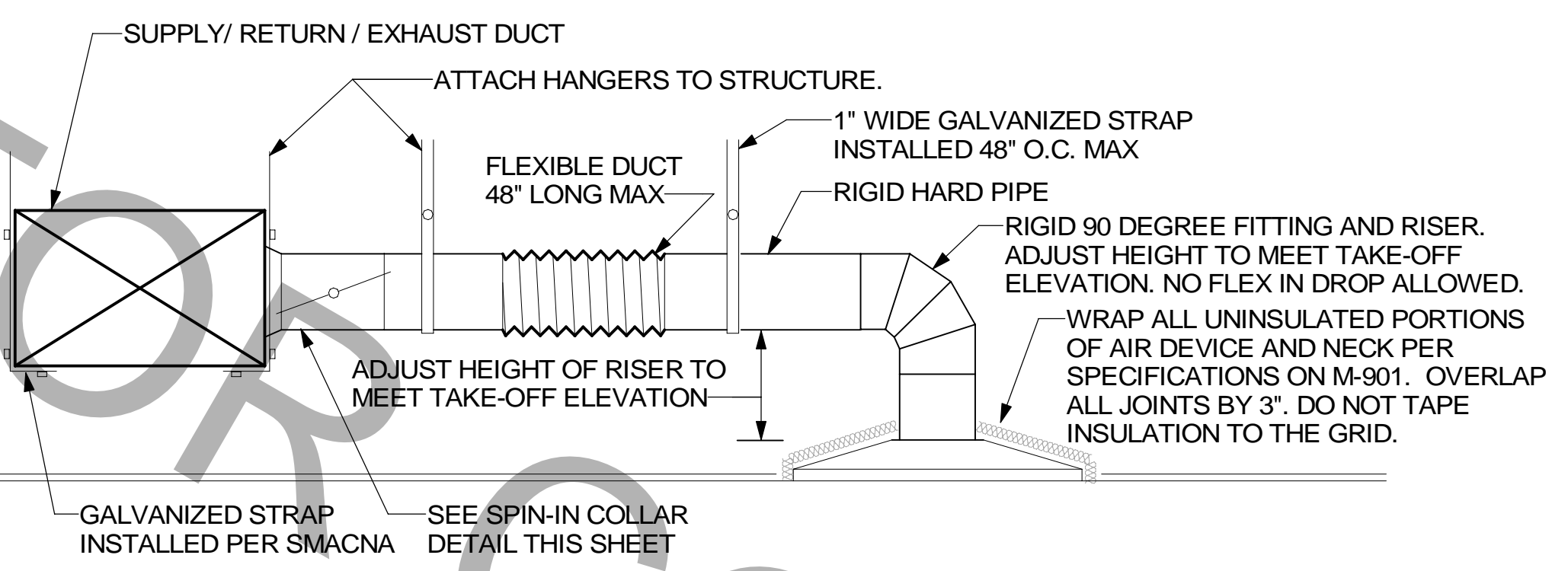
CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE ROYAL METAL PRODUCTS START COLLARS FOR BOTH WITH AND WITHOUT A MANUAL BALANCING DAMPER. THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE ROYAL METAL PRODUCTS START COLLARS DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE 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

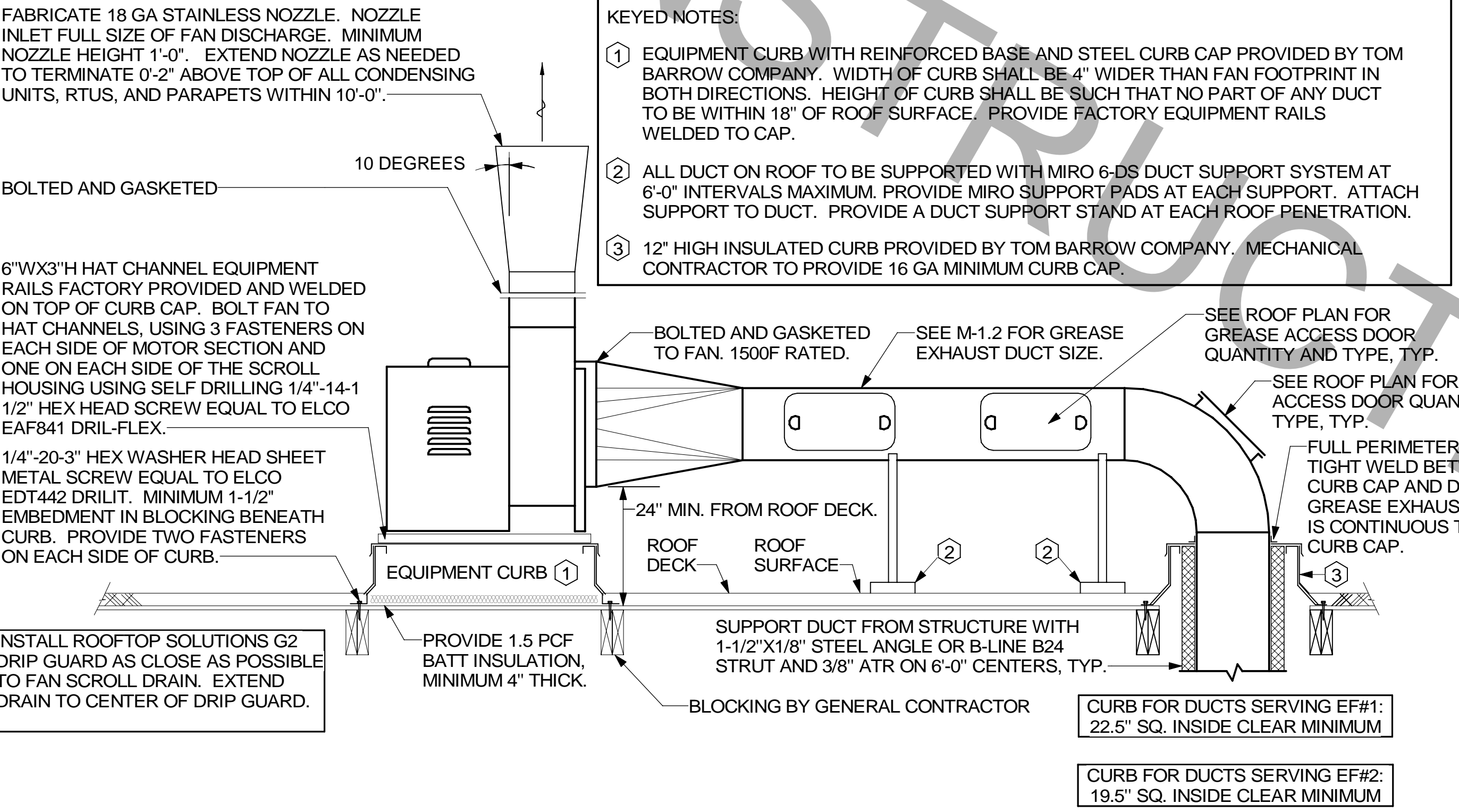


1 SAG/RAG/GRILLE TAKE-OFF
NOT TO SCALE

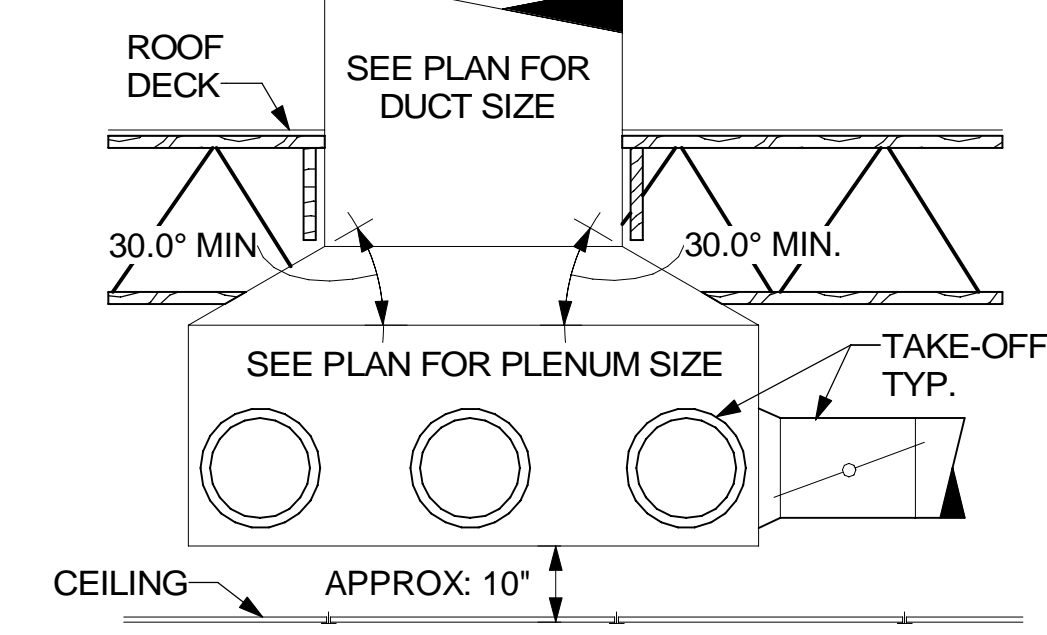
FABRICATE 18 GA STAINLESS NOZZLE. NOZZLE INLET FULL SIZE OF FAN DISCHARGE. MINIMUM NOZZLE HEIGHT 1'-0". EXTEND NOZZLE AS NEEDED TO TERMINATE 0'-2" ABOVE TOP OF ALL CONDENSING UNITS, RTUS, AND PARAPETS WITHIN 10'-0".

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.

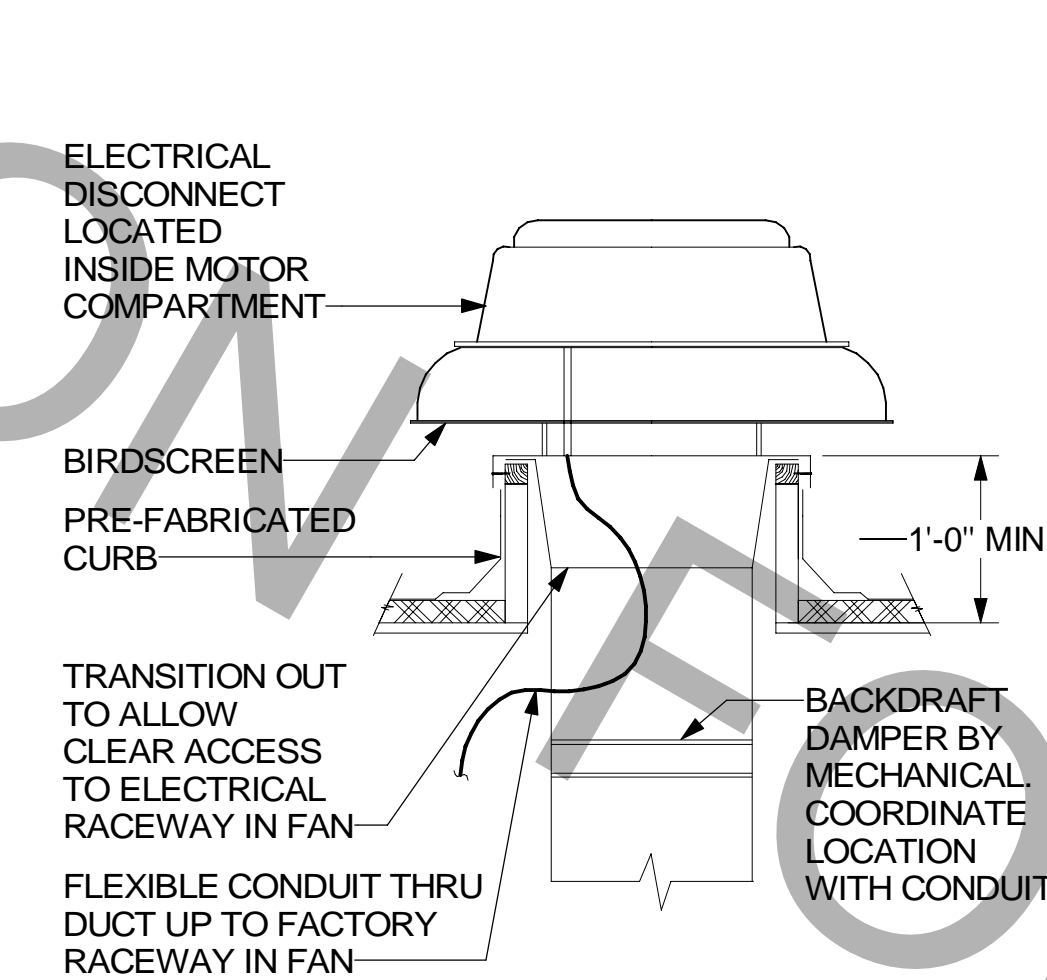
- KEYED NOTES:
- EQUIPMENT CURB WITH REINFORCED BASE AND STEEL CURB CAP PROVIDED BY TOM BARROW COMPANY. WIDTH OF CURB SHALL BE 4" WIDER THAN FAN FOOTPRINT IN BOTH DIRECTIONS. HEIGHT OF CURB SHALL BE SUCH THAT NO PART OF ANY DUCT TO BE WITHIN 18" OF ROOF SURFACE. PROVIDE FACTORY EQUIPMENT RAILS WELDED TO CAP.
 - ALL DUCT ON ROOF TO BE SUPPORTED WITH MIRO 6-DS DUCT SUPPORT SYSTEM AT 6'-0" INTERVALS MAXIMUM. PROVIDE MIRO SUPPORT PADS AT EACH SUPPORT. ATTACH SUPPORT TO DUCT. PROVIDE FACTORY DUCT SUPPORT STAND AT EACH ROOF PENETRATION.
 - 12" HIGH INSULATED CURB PROVIDED BY TOM BARROW COMPANY. MECHANICAL CONTRACTOR TO PROVIDE 16 GA MINIMUM CURB CAP.



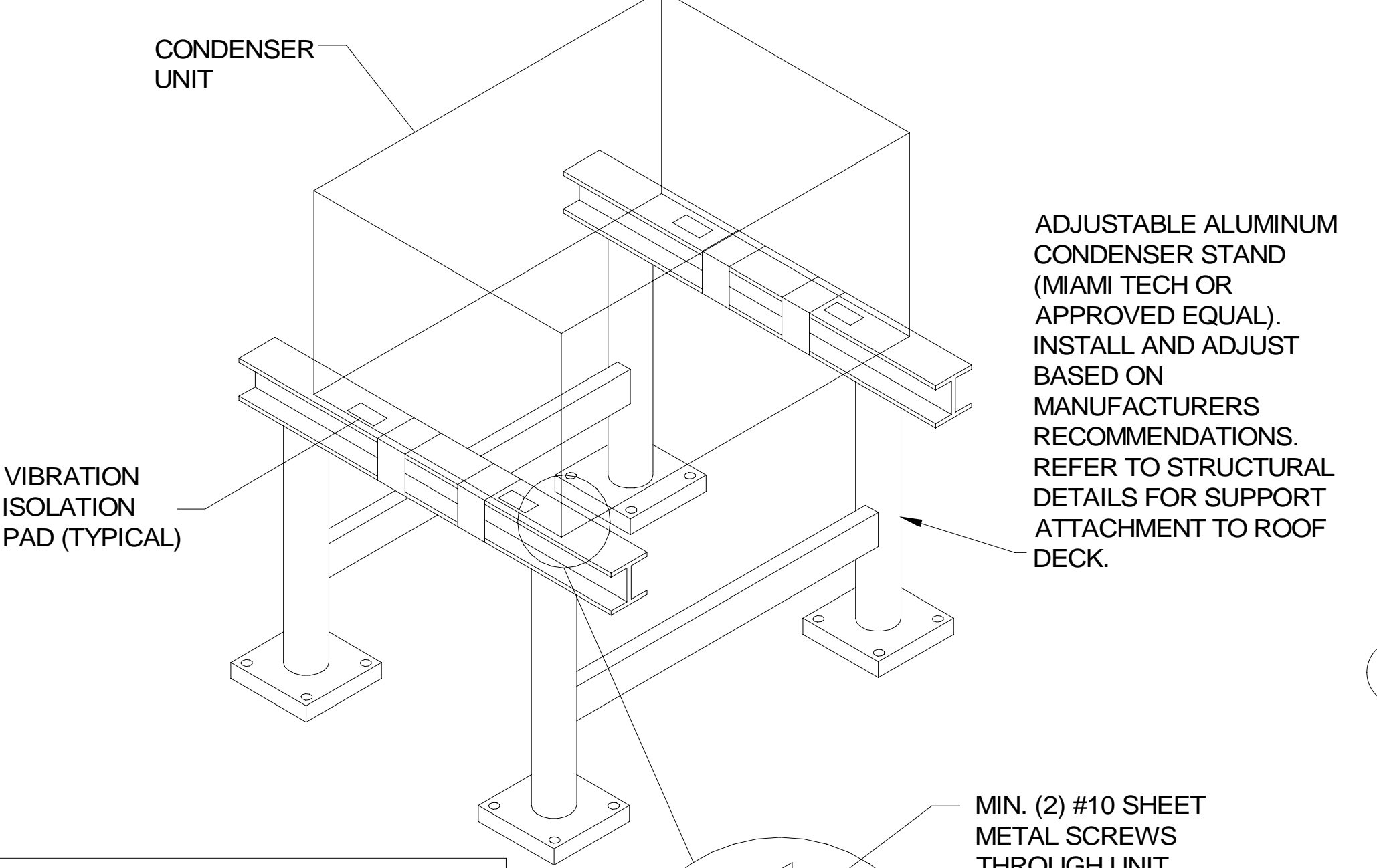
3 KITCHEN HOOD EXHAUST FANS
NOT TO SCALE



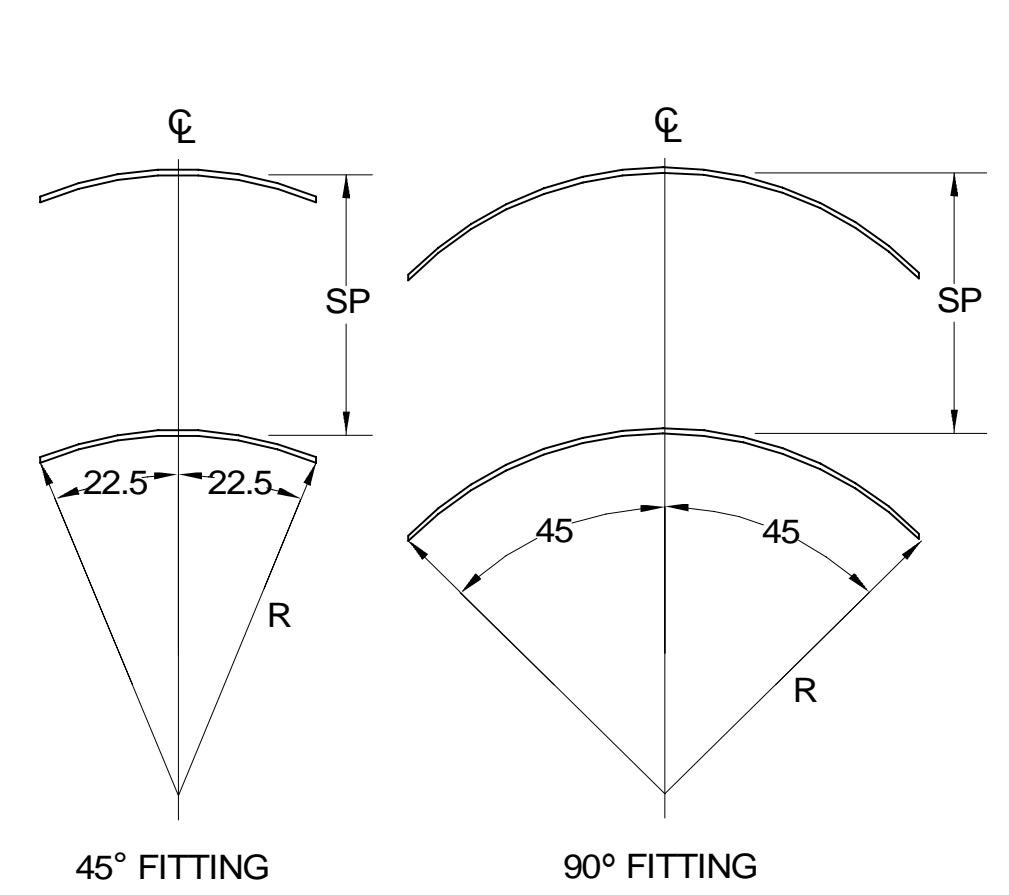
4 RETURN DROP GEOMETRY
NOT TO SCALE



5 RESTROOM EXHAUST FAN
NOT TO SCALE



6 CONDENSER UNIT TIE-DOWN DETAIL
1/4" = 1'-0"



7 TURNING VANES
NOT TO SCALE

TURNING VANE SCHEDULE

R	SP	GA
2"	1.5"	24

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

GAS FIRED ROOFTOP UNIT SCHEDULE

MARK	TOTAL COOLING MBH	SENSIBLE COOLING MBH	HEATING INPUT MBH	HEATING OUTPUT MBH	STAGES	SUPPLY	O.A.	HP	ESP	MODEL R-410A	MANUFACTURER	REMARKS
AC#1	281	215	480	384	2	9500	2000	10	0.8	LGH300S4M	LENNOX	1,3,4,5,7,8,9,10,11,12,13,14,15,16,17
AC#2	204	145	360	288	2	5600	1400	5	0.8	LGH210H4M	LENNOX	2,3,4,5,7,8,9,10,11,12,13,14,15,16,17
AC#3	238	175	480	384	2	6400	1600	5	0.8	LGH240H4M	LENNOX	2,3,4,5,7,8,9,10,11,12,13,14,15,16,17

NOTES:

- COOLING CAPACITIES ARE GROSS, BASED ON ENTERING: 80°FDB/67°FWB, OUTDOOR: 95°FDB.
- CHICK-FIL-A MAINTAINS A NATIONAL ACCOUNT FOR EQUIPMENT WITH LENNOX CORPORATION. CONTACT LENNOX NATIONAL ACCOUNTS AT 800-367-6285 (OR BY FAX AT 972-497-5112) FOR PRICING, ORDERING AND AVAILABILITY.
- MECHANICAL CONTRACTOR TO VERIFY LENNOX SUBMITTAL WITH CONSTRUCTION DOCUMENTS.

REMARKS:

- PROVIDE DIFFERENTIAL ENTHALPY ECONOMIZER WITH POWER EXHAUST.
- PROVIDE DIFFERENTIAL ENTHALPY ECONOMIZER WITH BAROMETRIC EXHAUST.
- PROVIDE 14" HIGH ROOF CURB. PROVIDE CURBS PLUS ANCHOR IN ACCORDANCE WITH MANUFACTURER RECOMMENDATION.
- SEE DETAIL 2/M-501 FOR SETTING OF PRODIGY M3 BOARD CONTROL PARAMETERS BY MC.
- PROVIDE FACTORY INSTALLED AND UNIT POWERED 115V GFI SERVICE OUTLET.
- NOT USED
- PROVIDE FACTORY INSTALLED RETURN SIDE SMOKE DETECTOR.
- PROVIDE FACTORY INSTALLED NON-FUSED DISCONNECT.
- PROVIDE 2" MERV 8 THROW AWAY FILTERS.
- PROVIDE HINGED PANELS FOR FILTER ACCESS, FAN MOTOR ACCESS, COMPRESSOR ACCESS AND CONTROL COMPARTMENT ACCESS.
- ADJUST GAS MANIFOLD PRESSURE AT LOCATIONS WHERE ELEVATION EXCEEDS 2000' ABOVE SEA LEVEL AS RECOMMENDED BY MANUFACTURER.
- PROVIDE FACTORY COIL HAIL GUARD, FIELD INSTALLED.
- PROVIDE HUMIDITROL OPTION WITH FACTORY WALL MOUNTED HUMIDITY SENSOR.
- PROVIDE FACTORY INSTALLED BELT TENSIONER.
- PROVIDE FACTORY CONFIGURED PHASE LOSS PROTECTION.
- PROVIDE FACTORY INSTALLED CONDENSATE PAN DRAIN OVERFLOW SWITCH.
- PROVIDE UNIT WITH MSAV BLOWER.

EXHAUST FAN SCHEDULE

MARK	Fan CFM	ESP	RPM	Tip Speed	HP	Area Served	MODEL	MANUFACTURER	REMARKS
EF#1	1913	0.75	1331	5230	3/4	HOOD#1	150 CPS	LOREN COOK	1,2,3,4,5,6,7,8,9,10,11,17
EF#2	1402	0.95	1199	4710	3/4	HOOD#2 & HOOD#3	150 CPS	LOREN COOK	1,2,3,4,5,6,7,8,9,10,11,17
EF#3	700	0.5	1102	3460	1/4	RESTROOMS	120C15D	LOREN COOK	3,11,12,13,14,15,16

NOTES:

- GREASE EXHAUST FAN RPM BASED ON 80°F AIR AT 1000 FEET ABOVE SEA LEVEL.
- GREASE EXHAUST FANS TO BE UL 762 LISTED.
- CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE FAN CURB PACKAGE. THE MECHANICAL CONTRACTOR SHALL PURCHASE THE FANS DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010, FOR PRICING AND AVAILABILITY. FANS AND CURBS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.

REMARKS:

- UPBLAST, ARRANGEMENT 10, CCW ROTATION. SEE PLANS TO CONFIRM CONFIGURATION.
- PROVIDE FACTORY ALUMINUM FAN WHEEL.
- PROVIDE FACTORY INSTALLED PREWIRED NON-FUSED DISCONNECT.
- PROVIDE FACTORY STEEL INLET FLANGE AND INLET COMPANION FLANGE.
- PROVIDE AND INSTALL ROOFTOP SOLUTIONS G2 DRIP GUARD. MECHANICAL CONTRACTOR TO CONTACT ROOFTOP SOLUTIONS AT 800-913-7034.
- PROVIDE FACTORY WEATHER HOUSING W/ HINGED ACCESS DOOR.
- PROVIDE FACTORY DRAIN CONNECTION.
- PROVIDE FACTORY BOLTED ACCESS DOOR ON SCROLL.
- PROVIDE FACTORY INSTALLED BELT DRIVE WITH ADJUSTABLE MOTOR SHEAVE AND SPARE BELT.
- PROVIDE FACTORY STEEL OUTLET COMPANION FLANGE.
- INTEGRAL THERMAL OVERLOAD WITH AUTOMATIC RESET.
- PROVIDE BIRDSCREEN.
- BACKDRAFT DAMPER IN DUCT BY MECHANICAL CONTRACTOR AS SHOWN ON 4/M401.
- STARTER BY ELECTRICAL CONTRACTOR. INTERLOCK WITH LIGHTS BY ELECTRICAL CONTRACTOR.
- PROVIDE 12" HIGH CURB.
- PROVIDE FACTORY INSTALLED AND WIRED SPEED CONTROLLER.
- UTILITY SET FAN CURB AND ASSOCIATED EXHAUST DUCT CURB PROVIDED BY TOM BARROW COMPANY.

RECIRCULATING FAN SCHEDULE

MARK	FAN CFM	FAN ESP	FAN RPM	FAN HP	AREA SERVED	MODEL	MANUFACTURER	FAN REMARKS
RF-1	450	0.30	1144	58 W	TECH CLOSET	GCVF-700	LOREN COOK	1, 2, 3

NOTES:

- CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE FANS PACKAGE. THE MECHANICAL CONTRACTOR SHALL PURCHASE THE FANS PACKAGE DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010, FOR PRICING AND AVAILABILITY. FANS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.

REMARKS:

- PROVIDE NEMA 1 PREWIRED DISCONNECT.
- INTEGRAL POTENTIOMETER ON FAN MOTOR. SET TO FULL SPEED.
- PROVIDE THERMOSTAT / TEMPERATURE CONTROLLER. SET TO 76°F.

AIR DOOR SCHEDULE

MARK	CFM	VELOCITY	HEATING CAPACITY	HP	AREA SERVED	MODEL	MANUFACTURER	REMARKS
AD#1	1543	2338 FPM	10 kW	3/4	DRIVE THRU	CHA-1-48E	POWERED AIRE	1,2,3,5
AD#2	1197	2443 FPM	10 kW	3/4	DRIVE THRU	CHA-1-36E	POWERED AIRE	1,2,3
AD#3	3867	4218 FPM	N/A	3/4	REAR DOOR	RBT-1-48	POWERED AIRE	4

NOTES:

- CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE AIR DOORS. THE MECHANICAL CONTRACTOR SHALL PURCHASE THE AIR DOORS DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010, FOR PRICING AND AVAILABILITY. AIR DOORS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.

REMARKS:

- FACTORY PROVIDED, WIRED, AND UNIT MOUNTED SPEED CONTROLLER LOCATED ABOVE CEILING.
- FACTORY WIRED DISCONNECT.
- FACTORY PROVIDED, FIELD INSTALLED BY MC, REMOTE WALL SWITCHES FOR HEATING ON/OFF AND FAN ON/AUTO SWITCH. SEE DETAIL, AIR CURTAIN WIRING DIAGRAM.
- 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. INSTALL 4" FROM THE WALL.

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/ OFFICE/ RESTROOM/ KITCHEN	VARIES	24"x24"	LAY-IN	1,7
C	PRICE MODEL SMCD STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	ENTRY	14"x14"	19"x19"	BEVELLED	1,3,5,6
E	PRICE MODEL 22 ALUMINUM SIDEWALL SUPPLY GRILLE, FRONT BLADE PARALLEL TO LONG SIDE	PLAY AREA	16"x16"	18"x18"	SURFACE	1
F	PRICE MODEL 80 EGGGRATE RETURN AIR GRILLE WITH REMOVABLE WHITE CORE. FACTORY FLAT BLACK BACKPAN AND ROUND NECK.	DINING/ OFFICE/ RESTROOM/ KITCHEN	VARIES	24"x24"	LAY-IN	1,4,7
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 DIFFUSER.	RESTROOMS/ ENTRY	10"x10"	16"x16"	SURFACE	1,4,5,6
L	PRICE MODEL 60 ALUMINUM SIDEWALL RETURN GRILLE, FRONT BLADE PARALLEL TO LONG SIDE.	PLAY AREA	16"x16"	18"x18"	SURFACE	1

NOTES:

- CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE AIR DEVICES. THE MECHANICAL CONTRACTOR SHALL PURCHASE THE AIR DEVICES DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010, FOR PRICING AND AVAILABILITY. AIR DEVICES NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.

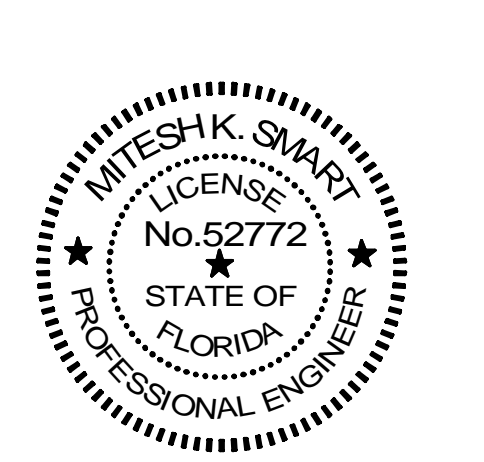
REMARKS:

- STANDARD OFF WHITE FINISH.
- PROVIDE MODEL VCS3 NECK DAMPER.
- SEE DRAWING M-501 FOR THE FAN CURB.
- PROVIDE MODEL VCR7 NECK DAMPER ON GRILLES IN RESTROOMS SERVING EXHAUST FAN.
- PROVIDE BACKPAN. MC TO SEAL JOINTS WITH MASTIC AND INSULATE EXTERNALLY.
- FIELD INSULATE BACKPAN AS SHOWN ON DETAIL 1/M-401.
- FACTORY INSULATED R-6 BACKPAN.



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

ISP INTERNATIONAL SERVICE PARTNERS, LLC
386 S ATLANTIC AVE. UNIT 9
ORMOND BEACH, FL 32176
TEL: (407) 619-6462
COA # 35434



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CHICK-FIL-A
ATLANTIC & HODGES
13375 ATLANTIC BLVD
JACKSONVILLE, FL 32225

FSR#01139
BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 22:05

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
4	11/12/2024	CONST REV 1

CONSULTANT PROJECT # C29147

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SHEET
HVAC DETAILS AND SCHEDULES

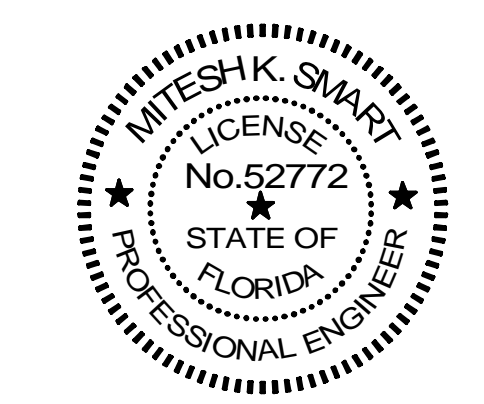
SHEET NUMBER
M-401

FOR CONSTRUCTION



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CHICK-FIL-A
ATLANTIC & HODGES
 13375 ATLANTIC BLVD
 JACKSONVILLE, FL 32225

FSR#01139
 BUILDING TYPE / SIZE: P13 LE LRG
 RELEASE: 22.05

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
3	10/04/2024	BIDD ADD 2

CONSULTANT PROJECT #	C29147
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SHEET
 ALTERNATE HVAC CONTROLS

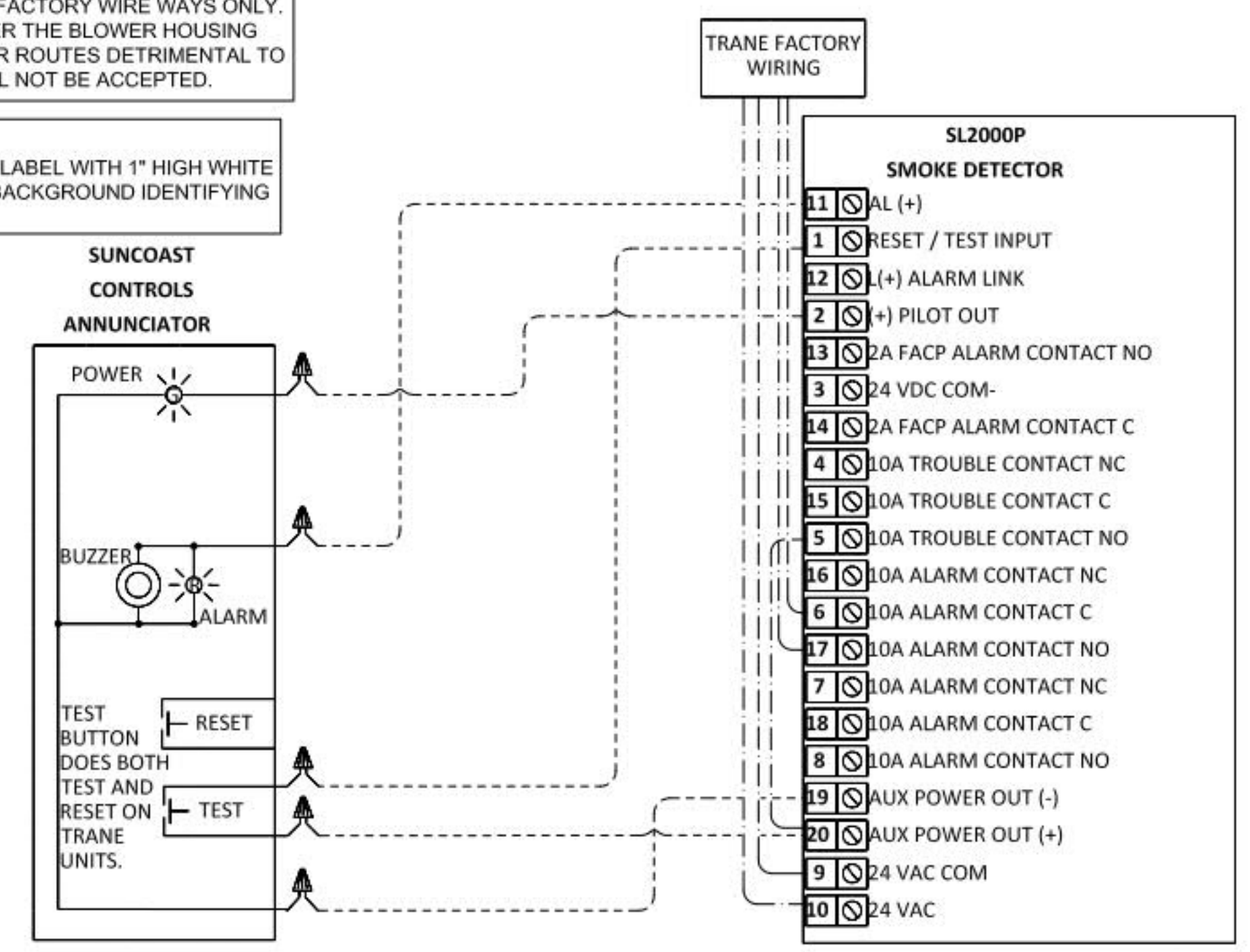
M-501a

LEGEND
 - - - - - 18 AWG MIN WIRING BY MECH CONTRACTOR
 _____ FACTORY ANNUNCIATOR DETECTOR WIRING
 - - - - - FACTORY TRANE WIRING

SUPPLY SIDE DETECTORS:
 IF SUPPLY SIDE SMOKE DETECTORS ARE SHOWN ON DWG M-201, AND CALLED FOR ON RTU SCHEDULE, THE CONTRACTOR IS TO RELOCATE FACTORY INSTALLED SUPPLY SMOKE DETECTOR FROM BLOWER SECTION TO DUCTWORK. SEE NOTES ON DWG M-201.

FIELD INSTALLED WIRING:
 WITHIN THE ROOFTOP UNITS, WIRING SHALL BE ROUTED BY WAY OF FACTORY WIREWAYS ONLY. WIRING ROUTED OVER THE BLOWER HOUSING OR BY WAY OF OTHER ROUTES DETRIMENTAL TO THE WIRING LIFE WILL NOT BE ACCEPTED.

LABELING:
 PROVIDE ENGRAVED LABEL WITH 1" HIGH WHITE LETTERS ON BLACK BACKGROUND IDENTIFYING UNIT SERVED.

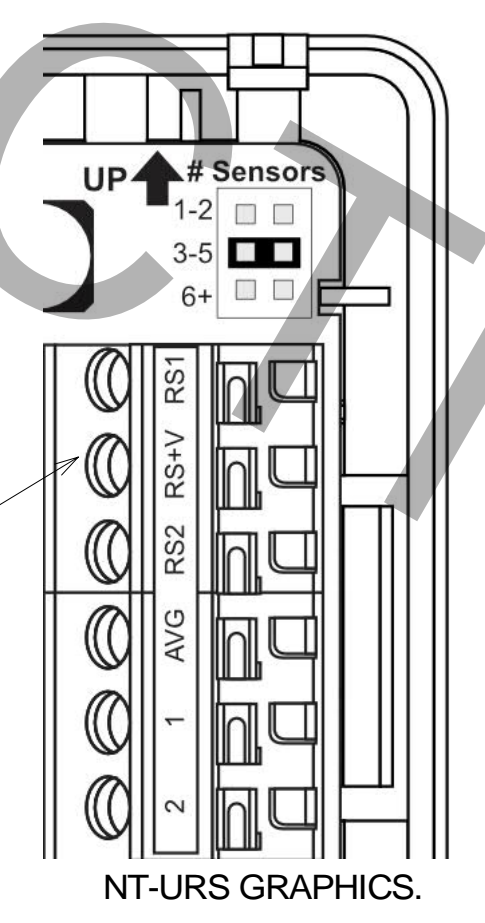


2 SMOKE DETECTOR AND ANNUNCIATOR WIRING DIAGRAM - TRANE
 NOT TO SCALE

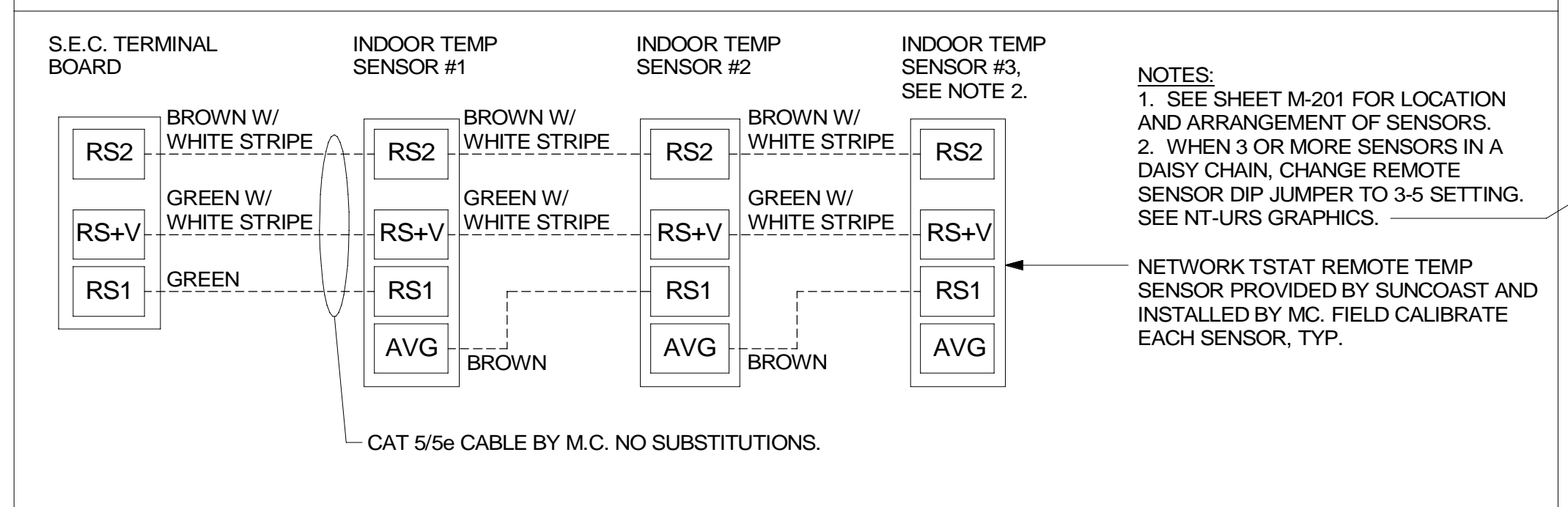
- NOTES:**
- MECHANICAL CONTRACTOR SHALL MAKE PLASTIC LAMINATE OF THIS DETAIL AND INSTALL PERMANENTLY ON INSIDE DOOR OF ROOFTOP UNIT CONTROL COMPARTMENT.
 - SEE DETAILS ON THIS SHEET FOR SMOKE DETECTOR AND ANNUNCIATOR WIRING.
 - SET ALL THERMOSTATS FOR AUTO CHANGEOVER.
 - PROVIDE PLASTIC ENGRAVED LABEL AT ALL NEW SENSORS WITH 1/4" HIGH WHITE LETTERING ON BLACK BACKGROUND, I.E. "ACH2 HUMIDITY SENSOR" OR "ACH2 TEMP SENSOR". PLACE LABELS ON WALL ADJACENT TO DEVICE. DO NOT APPLY DIRECTLY TO DEVICE.

- KEYED NOTES:**
- LOW VOLTAGE WIRING TO RTU TO BE ROUTED TO UNIT THRU FACTORY WIREWAY. LEAVE 4FT SERVICE LOOP AT RTU FOR TERMINATION AND FUTURE CONTROLS. DO NOT CUT OFF EXTRA CONDUCTORS.
 - WIRING TO HUMIDITY SENSOR TO BE MADE WITH SINGLE 18/2 SENSOR CABLE. W221P-2003NT ONLY.
 - 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.
 - THE RH SETPOINT IS ESTABLISHED BY ADJUSTING THE R41 POTENTIOMETER (LABELED "DEHUMID SP") ON THE RTOM MODULE. SET TO 60%.

PROVIDE A PROFESSIONAL LAMINATED COPY OF THESE DETAILS TO BE INSTALLED INSIDE THE ROOFTOP UNIT CONTROL CABINET. USE A SETON CHART FRAME STYLE #68624. TELEPHONE NUMBER 800-243-6624. FOR MOUNTING THE DETAIL, ATTACHED 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.



AVERAGING SENSORS (WHERE SHOWN ON PLANS)



- NOTES:**
- SEE SHEET M-201 FOR LOCATION AND ARRANGEMENT OF SENSORS.
 - WHEN 3 OR MORE SENSORS IN A DAISY CHAIN, CHANGE REMOTE SENSOR DIP JUMPER TO 3-5 SETTING. SEE NT-URS GRAPHICS.
- NETWORK TSTAT REMOTE TEMP SENSOR PROVIDED BY SUNCOAST AND INSTALLED BY MC. FIELD CALIBRATE EACH SENSOR, TYP.

LEGEND

S.E.C. SUNCOAST ENVIRONMENTAL CONTROLS (SUPPLIER OF TEMP/FAN CONTROL PANEL) LOCATED IN THE 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

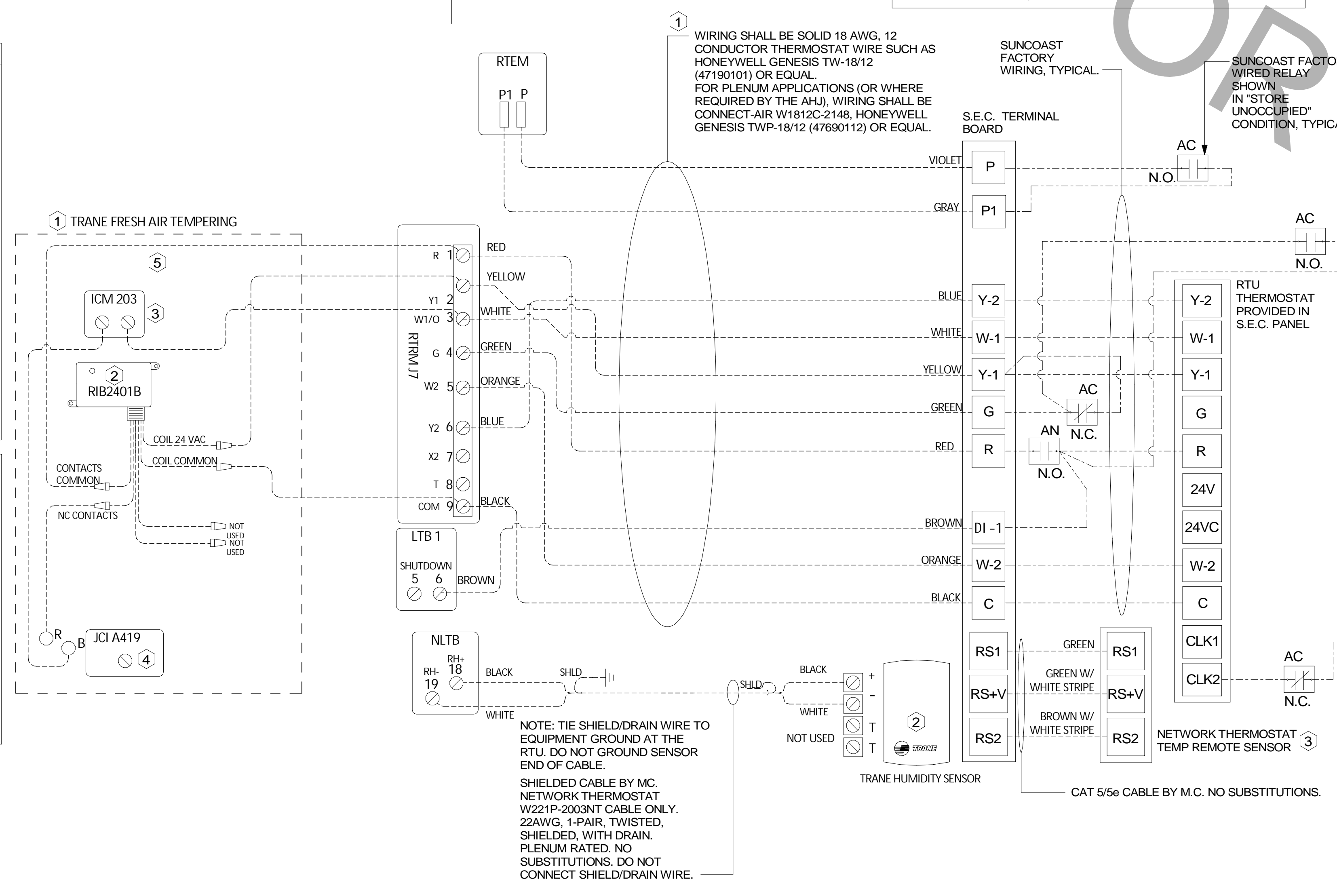
AN SUNCOAST RELAY FACTORY INSTALLED AND WIRED IN CFA-500 PANEL, DENERGIZED WHEN ANSUL FIRE SUPPRESSION SYSTEM IS ACTIVATED, AS NOTED.

- - - - - 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.

- FRESH AIR TEMPERING KEYED NOTES:**
- INSTALL FRESH AIR TEMPERING KIT AS RECOMMENDED BY TRANE.
 - RIB2401B SPDT RELAY PROVIDED BY TRANE AND INSTALLED BY CONTRACTOR IN CONTROL CABINET OF TRANE UNIT.
 - ICM 203 DOB TIMER PROVIDED BY TRANE AND INSTALLED BY CONTRACTOR IN CONTROL CABINET OF TRANE UNIT.
 - JCI A419 TEMPERATURE CONTROLLER PROVIDED BY TRANE AND INSTALLED BY CONTRACTOR. DIN-MOUNTED IN THE RTU CONTROL CABINET. SET TO SFF. LOCATE SUPPLY AIR TEMPERATURE SENSOR IN THE SUPPLY DUCT DOWNSTREAM OF FIRST ELBOW. SECURE WIRING TO DUCT OR STRUCTURE WITH RUBBER COATED CLAMPS. DO NOT RUN WIRING INSIDE DUCTWORK. PROTECT ALL WIRING PENETRATIONS WITH RUBBER GROMMETS.
 - 18 AWG MIN. LOW VOLTAGE WIRING BY MC.



NOTE: TIE SHIELD/DRAIN WIRE TO EQUIPMENT GROUND AT THE RTU. DO NOT GROUND SENSOR END OF CABLE. SHIELDED CABLE BY MC. NETWORK THERMOSTAT W221P-2003NT CABLE ONLY. 22AWG, 1-PAIR, TWISTED, SHIELDED, WITH DRAIN. PLENUM RATED. NO SUBSTITUTIONS. DO NOT CONNECT SHIELD/DRAIN WIRE.

1 ROOFTOP UNIT CONTROL WIRING - TRANE
 NOT TO SCALE

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PERMIT

1. SECTION C15000 - MECHANICAL 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 HIS WORK WITH OTHER TRADES. CONTRACTOR SHALL COORDINATE AND MAKE MINOR ADJUSTMENTS IN LOCATION OF EQUIPMENT AND MATERIALS AS NECESSARY TO SECURE COORDINATION.
 - B. COMPLETED INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES, INCLUDING BUT NOT LIMITED TO THE LATEST APPROVED EDITIONS OF NFPA-96, NFPA-90A, NFPA-54, SMACNA, ASHRAE 90.1 AND ASHRAE 62.
 - 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 (C15730)
- A. FURNISH AND INSTALL R-410A ROOFTOP SINGLE PACKAGE COMBINATION ELECTRIC COOLING AND NATURAL GAS FIRED HEATING UNITS BY LENNOX 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 FULLY 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 STEEL WITH 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. ALL UNITS SHALL BE CAPABLE OF TWO STAGES OF HEAT. HEAT EXCHANGES SHALL HAVE A TEN (10) YEAR WARRANTY. BURNERS SHALL BE ALUMINIZED IN-SHOT TYPE. THE DRAFT MOTOR SHALL BE MONITORED BY THE CONTROL SYSTEM.
 - E. CHICK-FIL-A MAINTAINS A NATIONAL ACCOUNT FOR EQUIPMENT WITH LENNOX CORPORATION. PRICING FOR THE EQUIPMENT HAS BEEN ESTABLISHED IN ADVANCE. CONTACT LENNOX NATIONAL ACCOUNTS AT 972-497-6260 (OR BY FAX AT 972-497-5112) FOR PRICING, ORDERING AND AVAILABILITY.

2.02 DUCTWORK (C15735) (SEE M-301 FOR ADDITIONAL GREASE DUCT SYSTEM REQ.)

- A. ACCEPTABLE MANUFACTURERS OF INSULATION ARE 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 INSULATION SHALL MEET MINIMUM R-VALUE REQUIRED BY ASHRAE 90.1 LATEST EDITION. 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. TRUNK DUCTS 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. SEE TAKE-OFF DETAIL ON DRAWING M-401.
- 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 THERMIFLEX MKE.
- 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 90 DEGREE TURNS IN SUPPLY DUCTWORK WHERE ANY ONE DIMENSION IS GREATER THAN 12".
- Q. RADIUSSED ELBOWS MAY BE SUBSTITUTED FOR 90 DEGREE ELBOWS AT THE DISCRETION OF THE CONTRACTOR. CENTERLINE RADIUS EQUAL TO R=4W PER FIGURE NO. 4-2 IN SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
- R. 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 (C15735)

- 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.
- 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. LENNOX UNITS - THERMOSTATS ARE PROVIDED AND INTEGRATED INTO THE TEMPERATURE CONTROL PANEL BY SUNCOAST ENVIRONMENTAL CONTROLS. SUNCOAST WILL PROVIDE A NETWORK THERMOSTAT US32-CFA THERMOSTAT PRE-WIRED IN THE TEMPERATURE CONTROL PANEL. A REMOTE TEMPERATURE SENSOR FOR EACH THERMOSTAT IS ALSO PROVIDED. MECHANICAL CONTRACTOR SHALL INSTALL ALL WIRING BETWEEN THE THERMOSTAT, THE REMOTE SENSOR 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.

PART III - EXECUTION

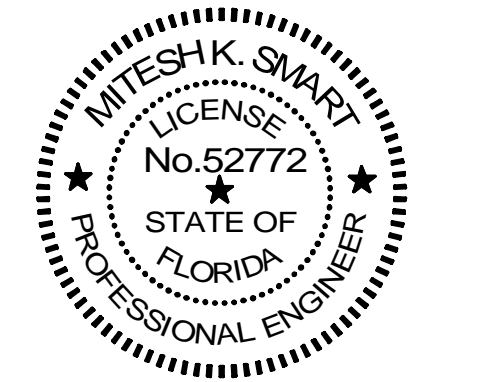
- 3.01 SCOPE
- A. FURNISH AND INSTALL SYSTEM IN ACCORDANCE WITH REFERENCED STANDARDS, APPLICABLE CODES, MANUFACTURER'S RECOMMENDATIONS AND AS INDICATED ON DRAWINGS.
 - B. CONTRACTOR SHALL INSTRUCT THE OWNER'S REPRESENTATIVE IN ALL MATTERS PERTAINING TO THE PROPER MAINTENANCE OF EQUIPMENT FURNISHED UNDER 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 CFA 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.
 - F. THE MC SHALL BE AVAILABLE DURING THE ENTIRE DURATION OF THE TAB EFFORT AND HAVE ON-SITE THE RESOURCES AND TOOLS TO MAKE CORRECTIONS AS NEEDED UNDER THE DIRECTION OF THE TAB TECHNICIAN.

CODE ADOPTION	NATIONAL ACCOUNTS
<p>BUILDING CODE: FLORIDA BUILDING CODE, BUILDING, 8TH EDITION (2023)</p> <p>PLUMBING CODE: FLORIDA BUILDING CODE, PLUMBING, 8TH EDITION (2023)</p> <p>MECHANICAL CODE: FLORIDA BUILDING CODE, MECHANICAL, 8TH EDITION (2023)</p> <p>ELECTRICAL CODE: NATIONAL ELECTRICAL CODE - (NFPA 70) 2020 EDITION</p> <p>FIRE CODE: FLORIDA FIRE PREVENTION CODE, 8TH EDITION (2021) NFPA 1 AND 101 - LIFE SAFETY CODE - 2021 EDITION NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE - 2019 EDITION NFPA 96 - STANDARD FOR COMMERCIAL COOKING OPERATIONS - 2017 EDITION CHAPTER 120-3-3 RULES AND REGULATIONS FOR THE STATE MIN. FIRE SAFETY STANDARDS.</p> <p>ENERGY CODE: ENERGY CONSERVATION, 8TH EDITION (2023)</p>	<ol style="list-style-type: none"> 1. LENNOX EQUIPMENT - CONTACT LENNOX NATIONAL ACCOUNTS AT 972-497-6260 (OR BY FAX AT 972-497-5112) FOR PRICING, ORDERING AND AVAILABILITY. LENNOX EQUIPMENT NOT PURCHASED THRU LENNOX NATIONAL ACCOUNTS WILL NOT BE ACCEPTED. 2. LOREN COOK FAN AND CURB PACKAGE - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE FAN/CURB PACKAGE DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. FANS AND CURBS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED. 3. PRICE AIR DEVICES - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE AIR DEVICES DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. AIR DEVICES NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED. 4. AIR DOORS - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE AIR DOORS DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. AIR DOORS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED. 5. SUNCOAST ENVIRONMENTAL CONTROLS - THE CFA 500 PANEL AND THE TEST/RESET STATIONS WILL BE PURCHASED AND PROVIDED BY THE ELECTRICAL CONTRACTOR AS A PART OF A NATIONAL ACCOUNT PACKAGE. SEE PART II PARAGRAPH 3A, 3D, AND 3E OF THE MECHANICAL SPECIFICATIONS FOR MORE INFORMATION. 6. HALTON 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. 7. ROYAL METAL PRODUCTS START COLLARS - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE START COLLARS DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. START COLLARS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED. 8. SCHWANK INFRARED HEATER PACKAGE - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE HEATER PACKAGE DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. HEATERS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED. 9. BROMIC ELECTRIC HEATER - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE HEATER DIRECTLY FROM BROMIC HEATING USA. CONTACT MR. BLAKE RUSSIE AT 858-381-4850 FOR PRICING AND AVAILABILITY. HEATERS NOT PURCHASED THRU BROMIC HEATING USA WILL NOT BE ACCEPTED. 10. TRANE EQUIPMENT - CONTACT MR. SCOTT ROWLEY AT 630-200-7155 FOR PRICING, ORDERING AND AVAILABILITY. TRANE EQUIPMENT NOT PURCHASED THRU TRANE NATIONAL ACCOUNTS WILL NOT BE ACCEPTED.



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

ISP INTERNATIONAL SERVICE PARTNERS, LLC
386 S ATLANTIC AVE. UNIT 9
ORMOND BEACH, FL 32176
TEL: (407) 679-6462
CDA 23-5434



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CHICK-FIL-A
ATLANTIC & HODGES
13375 ATLANTIC BLVD
JACKSONVILLE, FL 32225

FSR#01139

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 22.05

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
1	07/08/2024	PERMIT REV 1

CONSULTANT PROJECT #	C29147
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DATE	09/22/2023
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SHEET
MECHANICAL
SPECIFICATIONS

SHEET NUMBER

M-901

Autodesk Docs://FL_01139_Atlantic & Hodges FSU_2023.3_FSR01139_Atlantic & Hodges FSU_MEC.rvt
04-10-2024 15:52:08
30-LE-01139-M-901-MECHANICAL SPECIFICATIONS

FOR CONSTRUCTION

HOOD MODEL	HOOD NUMBER	QTY	EXHAUST COLLAR		EXHAUST AIR INFORMATION			CAPTURE AIR INFORMATION		S.S. KSA FILTERS		LED LIGHTS		CEILING CLOSURES		KBD DAMPER	K FACTOR (CFM = K FACTOR * √DP)	MATERIAL	
			LENGTH	WIDTH	CFM	TAB	SP	CFM	SP	FULL	HALF	QTY	CLOSURE HEIGHT	CEILING HEIGHT	HOOD WEIGHT				
KVL-2-IC	H-1L	1	14"	8"	1204	0.13"	0.22"	80	0.30"	5	-	3	2	51"	122"	669 LBS	*	3365	EXPOSED SURFACES 18 GA. S.S.
KVL-2-IC	H-1R	1	8"	8"	709	0.13"	0.23"	47	0.30"	3	-	2	2	51"	122"	394 LBS	*	1959	
KVL-C-IC	H-2	1	8"	8"	701	0.30"	0.39"	30	0.29"	2	-	1	2	51"	122"	245 LBS	*	1291	
KVL-C-IC	H-3	1	8"	8"	701	0.30"	0.39"	30	0.29"	2	-	1	3	51"	122"	245 LBS	*	1291	

CLOSURE PANELS

**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

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
- EQUIPMENT COVERED:
(4) PRESSURE FRYERS
(2) GRILLS
- ANSUL WEIGHT = 286 LBS

H-1R

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
- EQUIPMENT COVERED:
(3) PRESSURE FRYERS

H-2

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
- EQUIPMENT COVERED:
(2) FRYERS

H-3

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
- EQUIPMENT COVERED:
(2) FRYERS

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

ISP INTERNATIONAL SERVICE PARTNERS, LLC
 386 S ATLANTIC AVE. UNIT 9
 ORMOND BEACH, FL 32176
 TEL: (407) 619-6462
 COA #35434

MESSEK, SMART
 LICENSE No. 52772
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

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WEBSITE: www.halton.com

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

HALTON CO. (USA) 101 INDUSTRIAL DRIVE SCOTTSDALE, KY 42164 1-270-237-9600	HALTON CO. (CANADA) 1021 BREVK PLACE MISSISSAUGA, ON L4W 3R7 1-905-624-0301
--	--

REV.	DESCRIPTION	DATE
1	ADDED 42" HOODS; CHGD TO STANDARD LAYOUT	09/19/23
2		
3		
4		
5		
6		
7		
8		
9		
10		

PROJECT: CHICK-FIL-A #1139 ATLANTIC & HODGES

LOCATION: JACKSONVILLE, FL

DRAWN BY: SKK

SCALE: NOT TO SCALE

DATE: 04.04.23

DATE: 09/19/23

DATE: 09/19/23

DATE: 09/19/23

DATE: 09/19/23

DATE: 09/19/23

DATE: 09/19/23

DATE: 09/19/23

DATE: 09/19/23

DATE: 09/19/23

DRAWING No.: U23-308-01

SHEET: H-1.1

CONSULTANT PROJECT # C29147

PRINTED FOR PERMIT

DATE 09/22/2023

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SHEET HALTON HOOD SHOP DRAWING

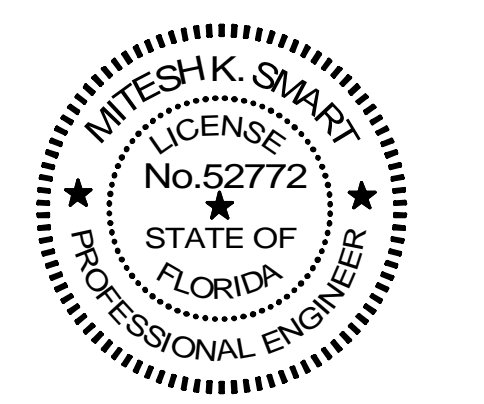
SHEET NUMBER MH-1.1



Chick-fil-A

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

ISP INTERNATIONAL SERVICE PARTNERS, LLC
386 S ATLANTIC AVE. UNIT 9
ORMOND BEACH, FL 32176
TEL: (407) 674-6462
COA #35434



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CHICK-FIL-A
ATLANTIC & HODGES
13375 ATLANTIC BLVD
JACKSONVILLE, FL 32225

FSR#01139
BUILDING TYPE / SIZE: P13 LE ALL
RELEASE: 22:05

REVISION SCHEDULE
NO. DATE DESCRIPTION

CONSULTANT PROJECT # C29147
PRINTED FOR PERMIT
DATE 09/22/2023
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SHEET HALTON HOOD SHOP DRAWING

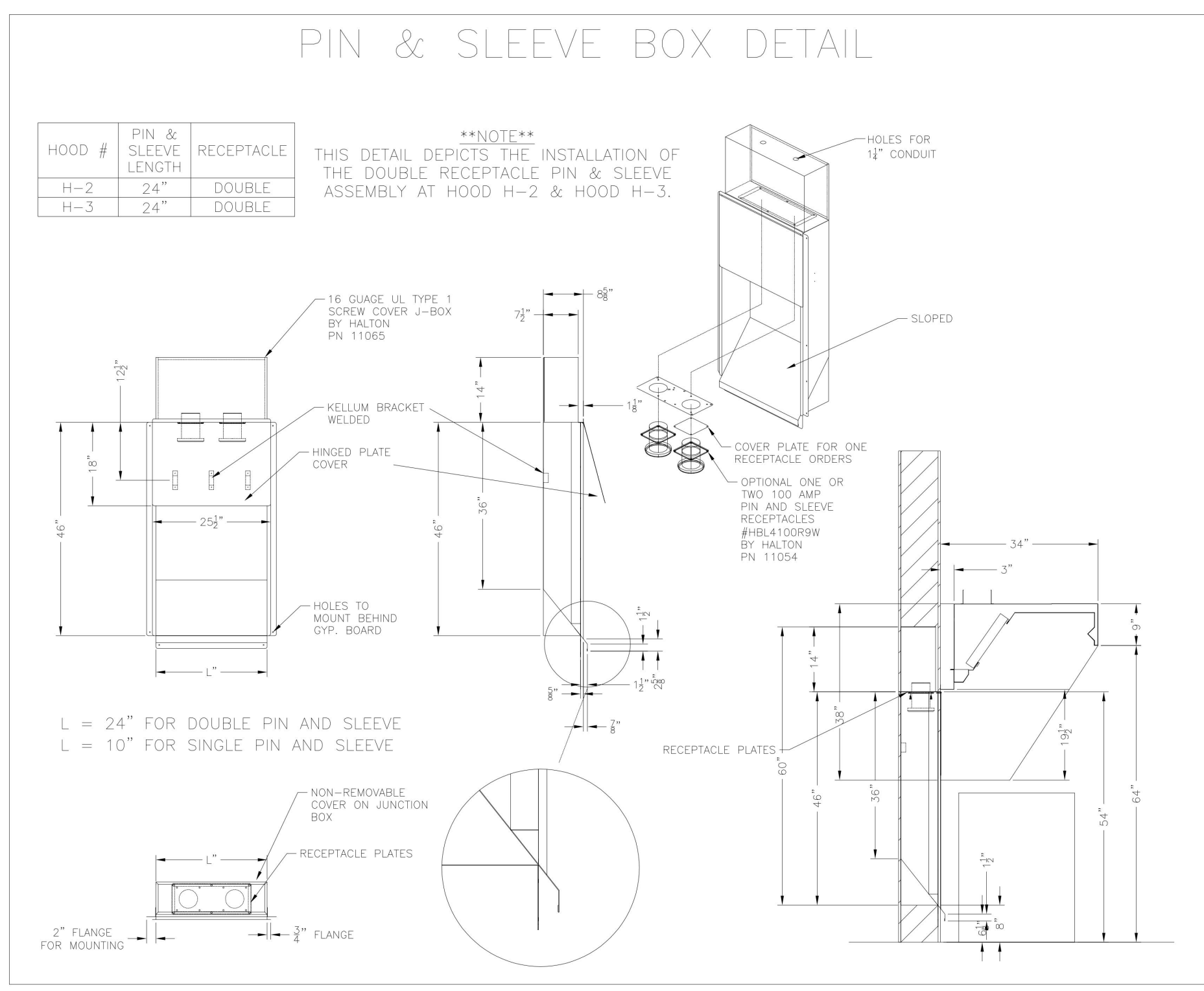
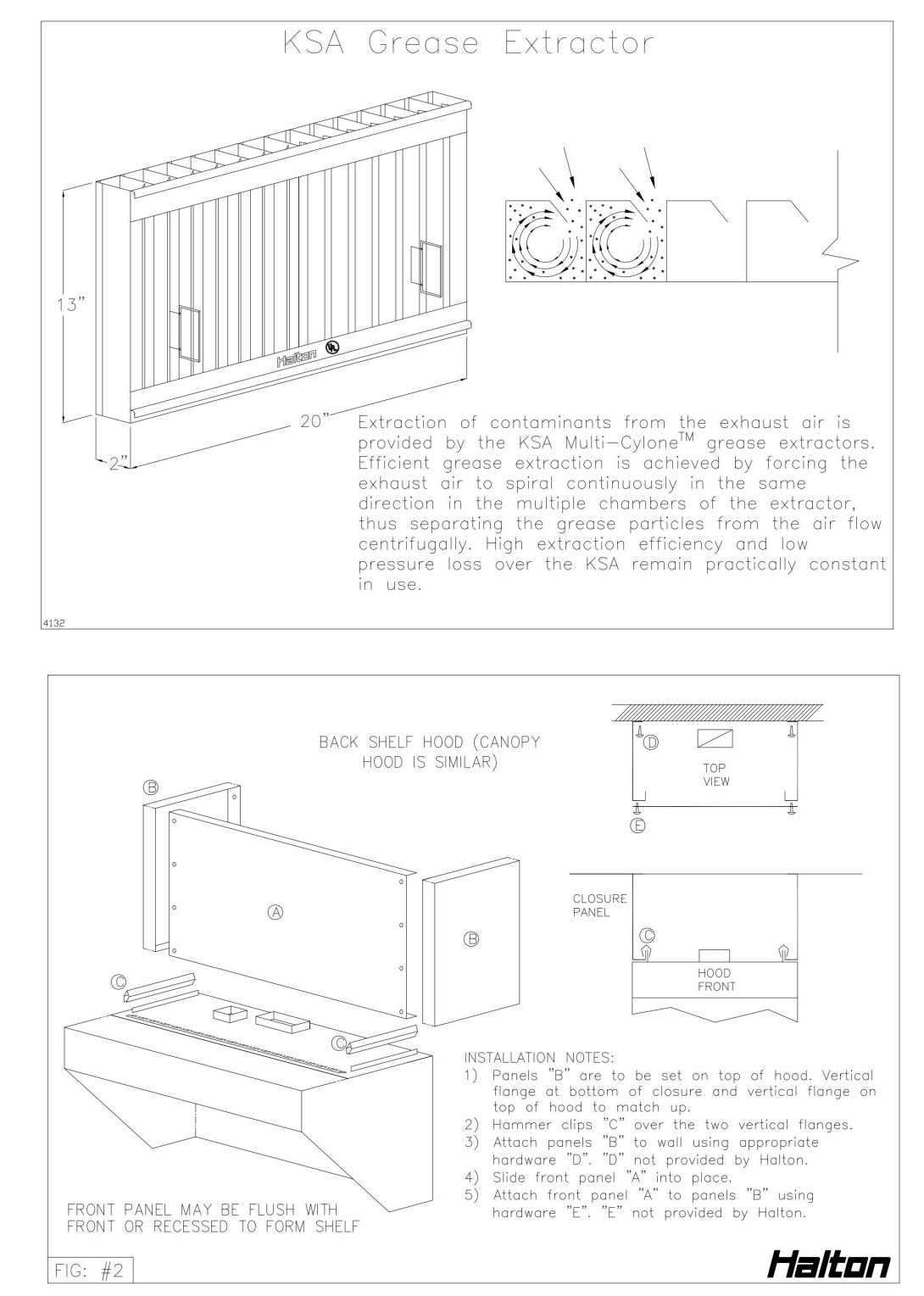
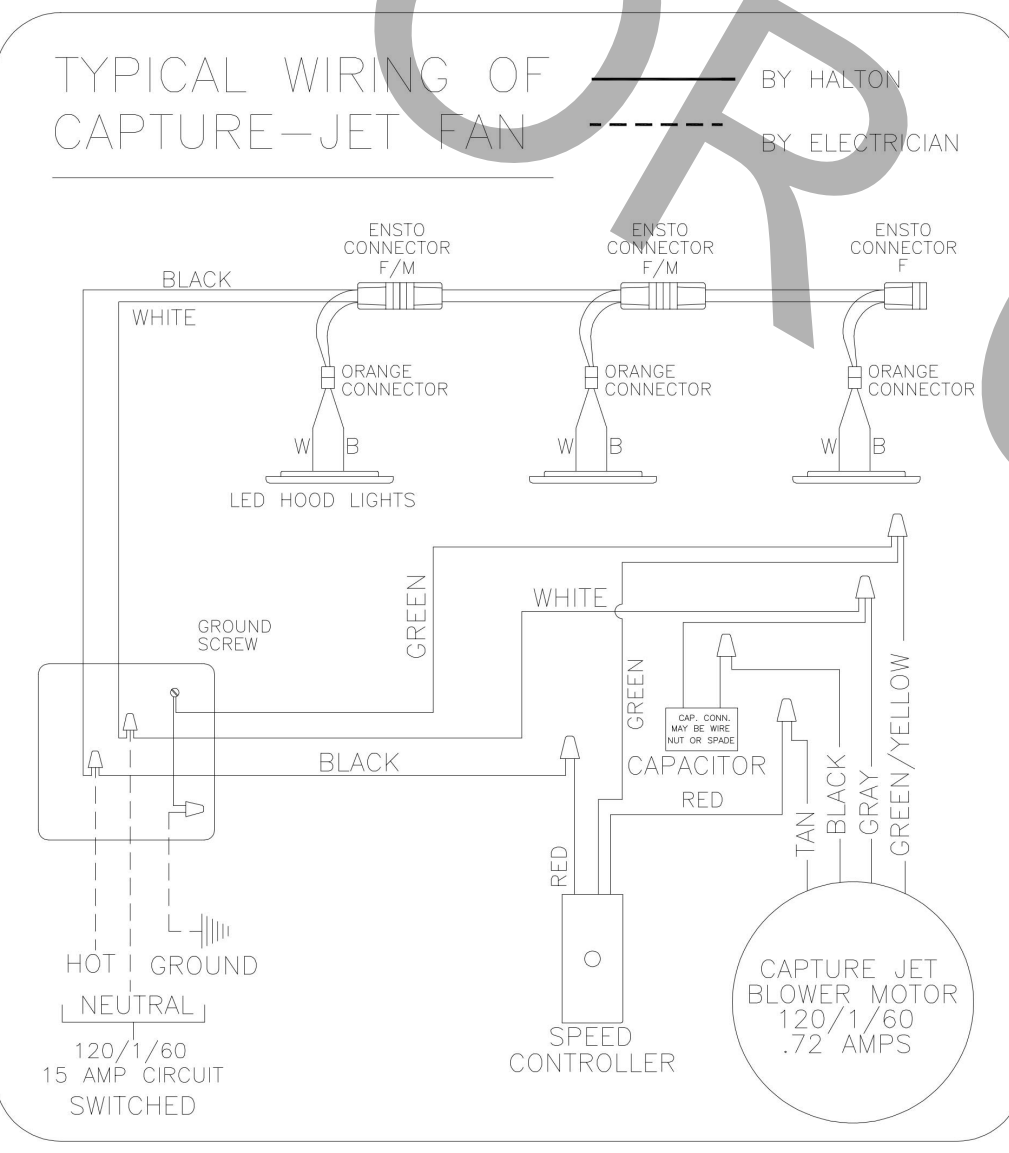
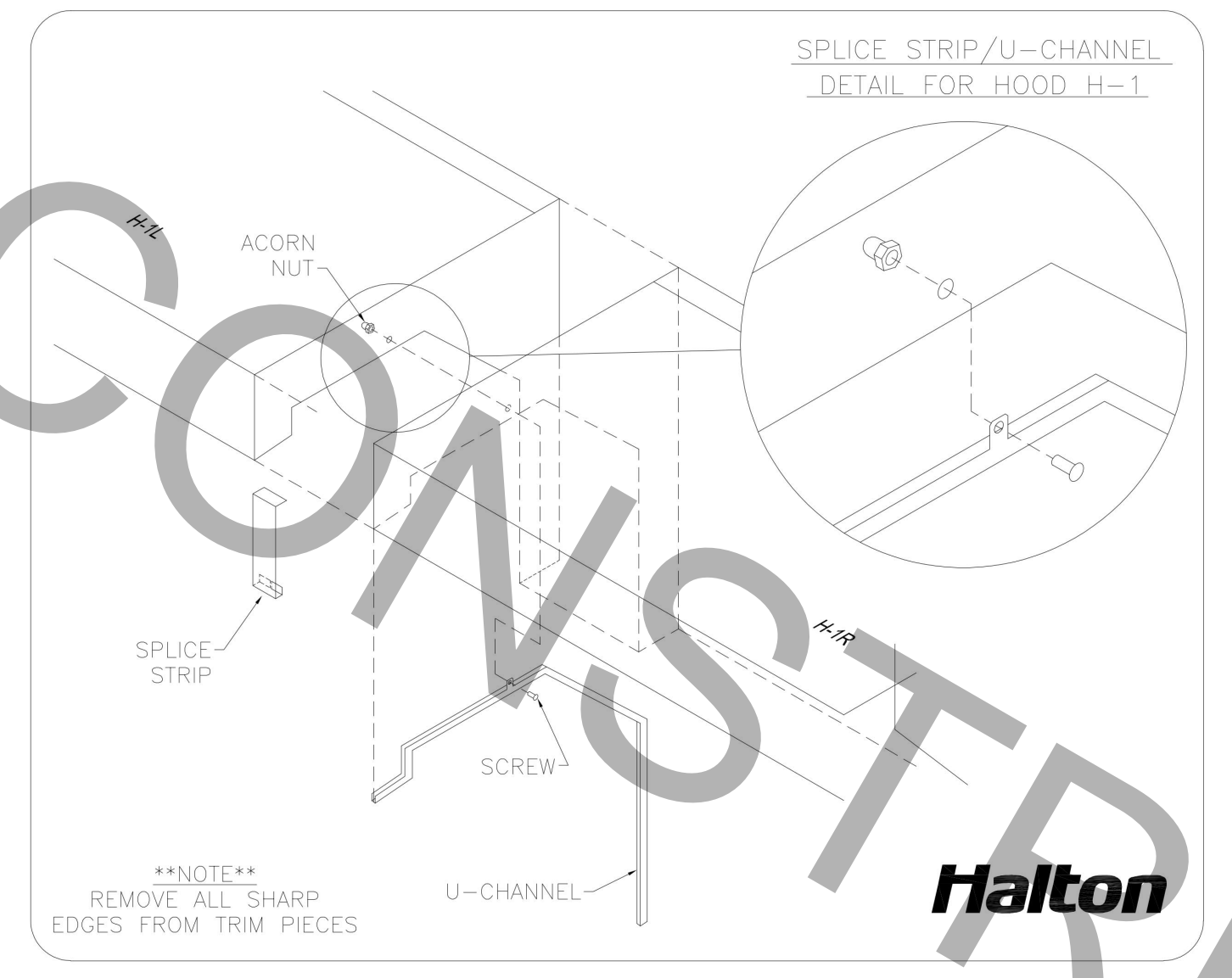
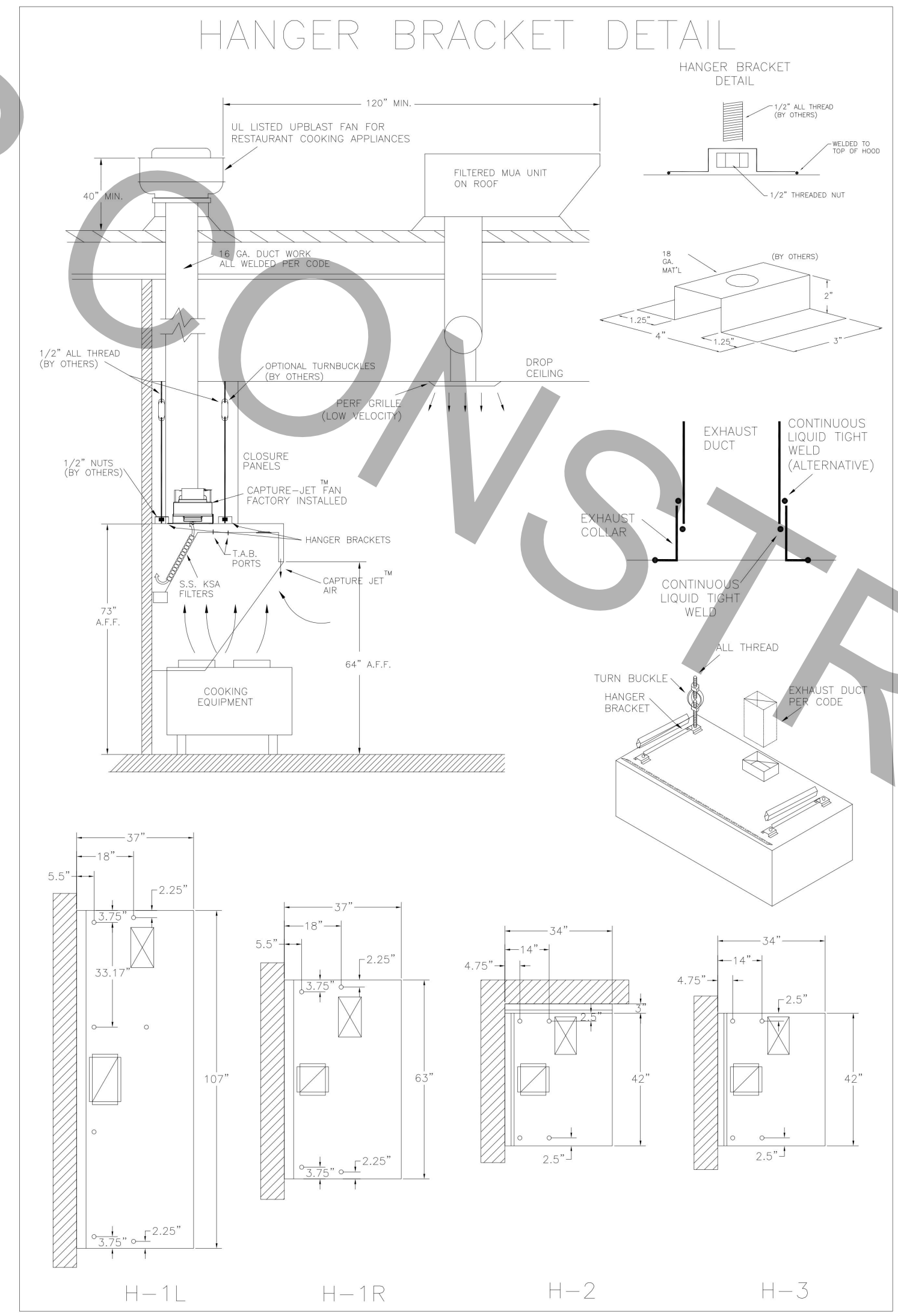
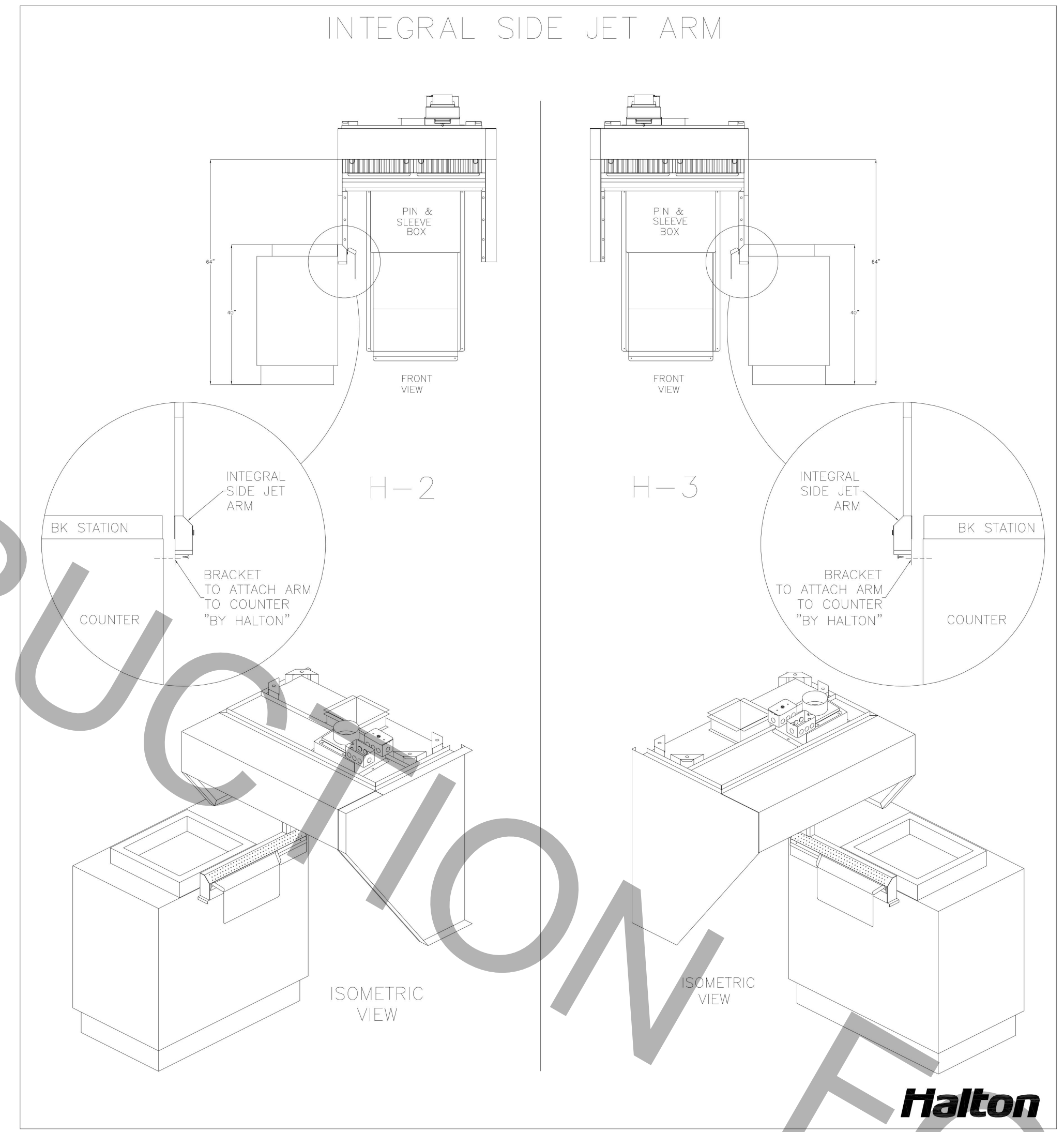
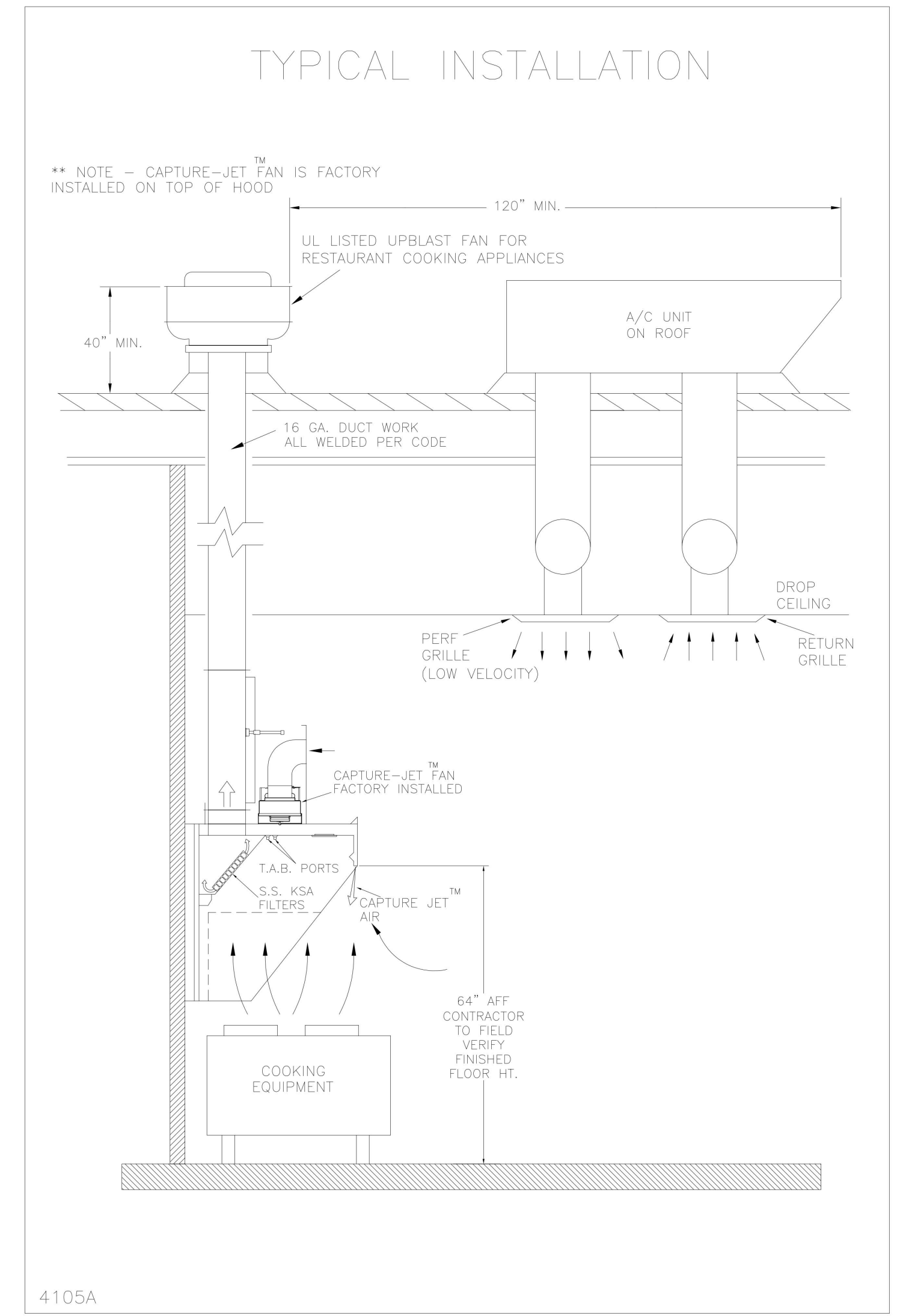
SHEET NUMBER
MH-1.2

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:
1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES AND TYPE OF COOKING EQUIPMENT.
2. ALL DIMENSIONS 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.
 REVERSE AND RESUBMIT
 APPROVED FOR FABRICATION
 WITH NO CHANGES
 WITH CHANGES AS NOTED
APPROVED BY: _____ DATE: _____

WEBSITE: www.halton.com
HALTON CO. (USA)
101 INDUSTRIAL DRIVE
SCOTTSDALE, KY 42164
1-270-237-9600
BY: SKK DATE: 09/19/23
SKK

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:
HALTON CO. (CANADA)
1021 BREVIK PLACE
MISSISSAUGA, ON L4W 3R7
1-905-624-0301
REV. DESCRIPTION
A ADDED 42" HOODS
B
C
D
E

PROJECT: CHICK-FIL-A #1139 ATLANTIC & HODGES
LOCATION: JACKSONVILLE, FL
DRAWN BY: SKK DATE: 09/19/23
SCALE: NOT TO SCALE
DRAWING No.: U23-308-02
SHEET No.: H-1.2



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

Table with columns: DUTY LEVEL, MINIMUM OVERHANG, DISTANCE BETWEEN FRONT EDGE OF HOOD AND COOKING SURFACE, MIN. CLEARANCE TO COMBUSTIBLE MATERIALS (TOP, SIDES, FRONT AND REAR) IN COMPLIANCE WITH UL709, and MIN. CLEARANCE TO COMBUSTIBLE MATERIALS (TOP, SIDES, FRONT AND REAR) IN COMPLIANCE WITH UL709. Includes a note: JET SUPPLY AIR FLOW SHALL ONLY BE SET AT 0.30 IN HOOD.

Table with columns: DUTY LEVEL, MINIMUM OVERHANG, DISTANCE BETWEEN FRONT EDGE OF HOOD AND COOKING SURFACE, MIN. CLEARANCE TO COMBUSTIBLE MATERIALS (TOP, SIDES, FRONT AND REAR) IN COMPLIANCE WITH UL709, and MIN. CLEARANCE TO COMBUSTIBLE MATERIALS (TOP, SIDES, FRONT AND REAR) IN COMPLIANCE WITH UL709. Includes a note: JET SUPPLY AIR FLOW SHALL ONLY BE SET AT 0.30 IN HOOD.

FOR CONSTRUCTION

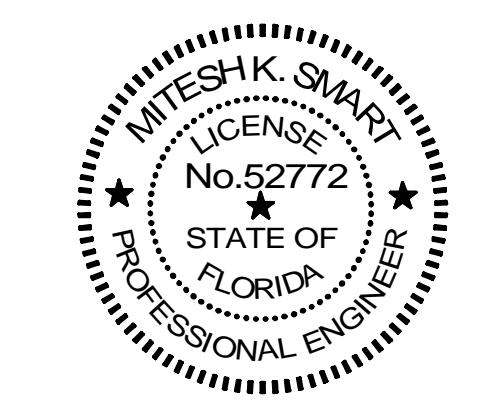
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04-10-2024 15:52:13
30-LE-01139-MH-1.2-HALTON HOOD SHOP DRAWING



Chick-fil-A

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

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 ORMOND BEACH, FL 32176
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 COA #35434



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CHICK-FIL-A
 ATLANTIC & HODGES
 13375 ATLANTIC BLVD
 JACKSONVILLE, FL 32225

FSR#01139
 BUILDING TYPE / SIZE: P13 LE LRG
 RELEASE: 22.05

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

CONSULTANT PROJECT #	C29147
PRINTED FOR	PERMIT
DATE	09/22/2023
DRAWN BY	ISP

PERMIT
 SHEET
 HALTON HOOD SHOP
 DRAWING

SHEET NUMBER
MH-1.3

FIRE EXTINGUISHER

ISO VIEW W/BRACKET

ANSUL

13051 5 LBS ABC MODEL AA05 QTY _____

13052 10 LBS ABC MODEL AA10S QTY _____

13053 6 LTR CLASS K-GUARD K01-3 QTY _____

SUPPLIED BY HALTON

ANSUL

FUSIBLE LINK RATINGS

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

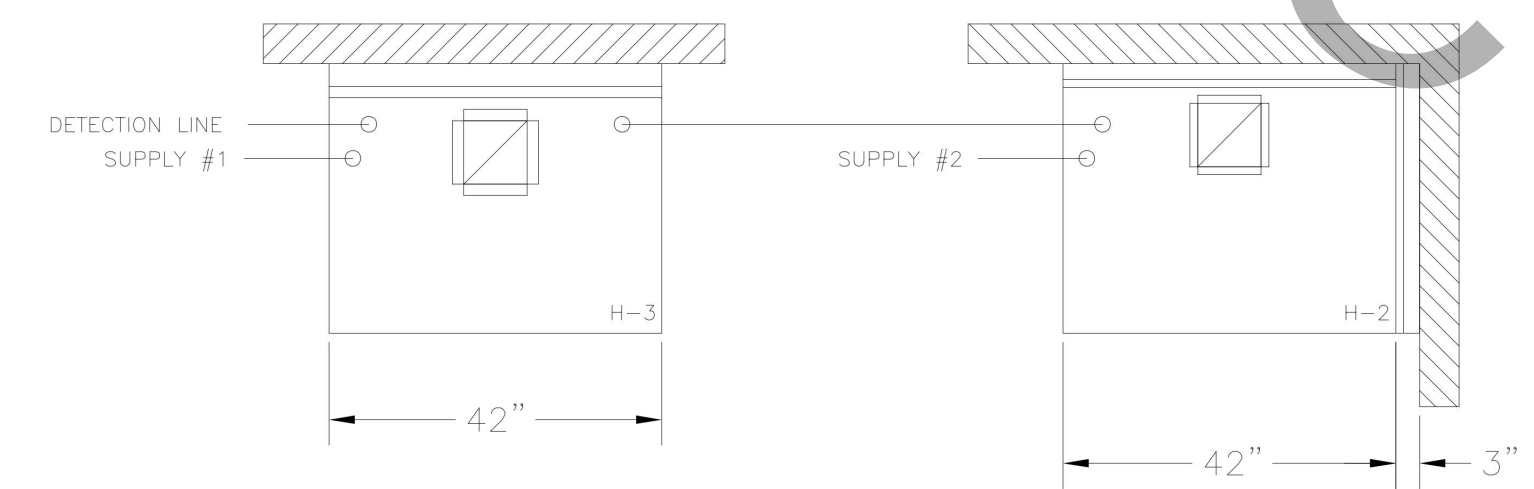
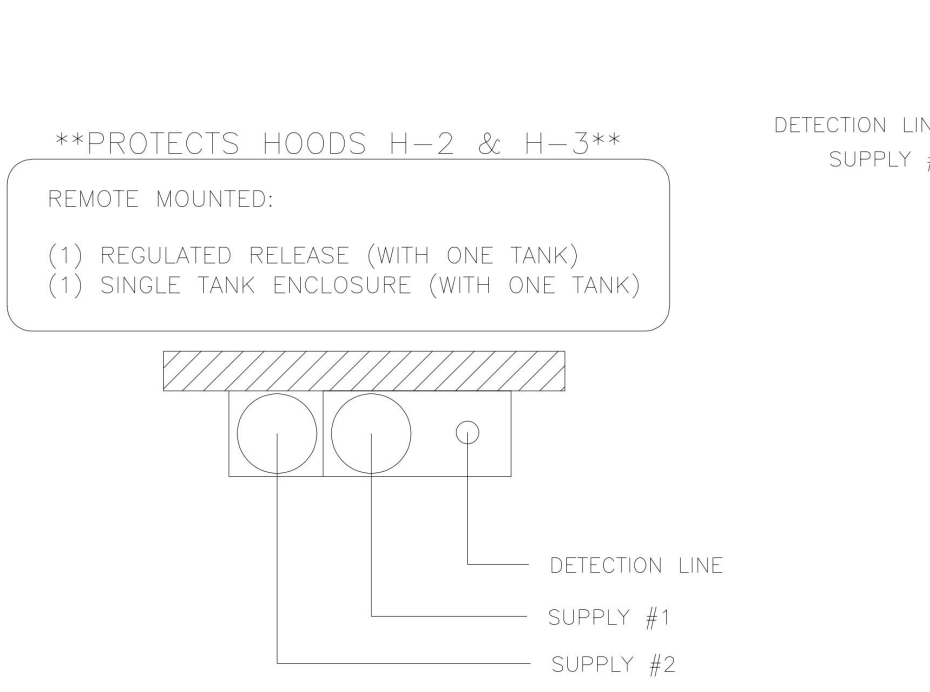
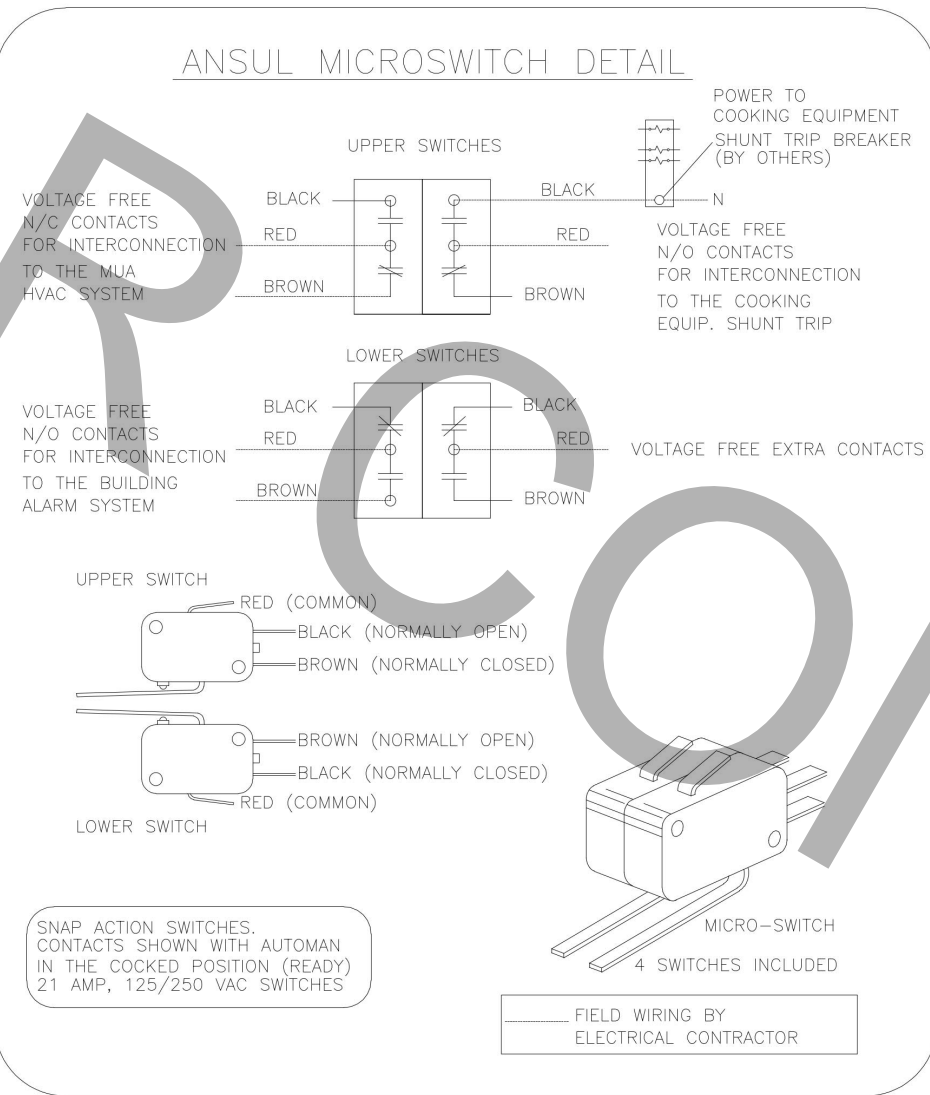
ANSUL R-102 FIRE SYSTEM NOTES
 THREE TANK SYSTEM MOUNTED ON TOP OF (H-1L)
 MAXIMUM FLOW POINTS = 33

ANSUL R-102 FIRE SYSTEM NOTES
 TWO TANK SYSTEM REMOTE MOUNTED
 MAXIMUM FLOW POINTS = 22

ITEM	PART #	QTY	DESCRIPTION	FLOW PTS (TOTAL)
1W	10023	4	DUCT NOZZLES	4
1N	10022	4	PLENUM NOZZLES	4
230	10025	2	APPLIANCE NOZZLES	4
3N	10021	11	APPLIANCE NOZZLES	33
TOTAL FLOW POINTS				45
ITEM	QTY	DESCRIPTION		
#200	10035	8	SERIES DETECTORS W/ FUSIBLE LINKS	
#201	11973	2	TERMINAL DETECTORS W/ FUSIBLE LINKS	
#202	10046	1	OEM REGULATED RELEASE W/ DOUBLE POLE MICRO SWITCH	
#202	10033	1	REGULATED RELEASE W/ DOUBLE POLE MICRO SWITCH	
#203	10023	5	3 GALLON TANKS	
#204	10044	1	SINGLE TANK ENCLOSURE	
#205	10040	2	REMOTE PULL STATION	
#206	10025	4	DOUBLE TANK NITROGEN CARTRIDGE	
#207	11128	5	3 GALLON ANSULEX CONTAINER	

ANSUL R-102 FIRE SYSTEM

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

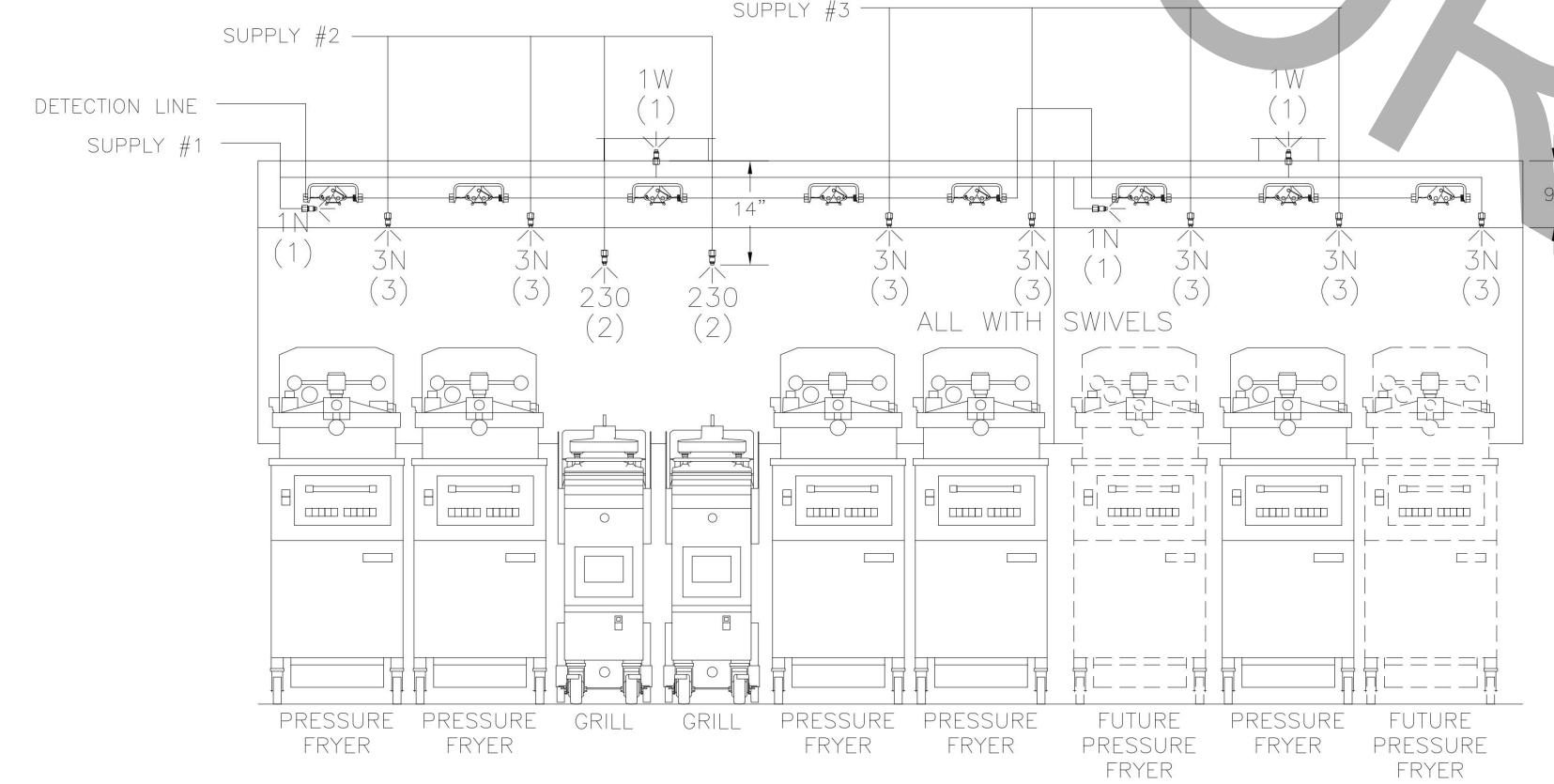
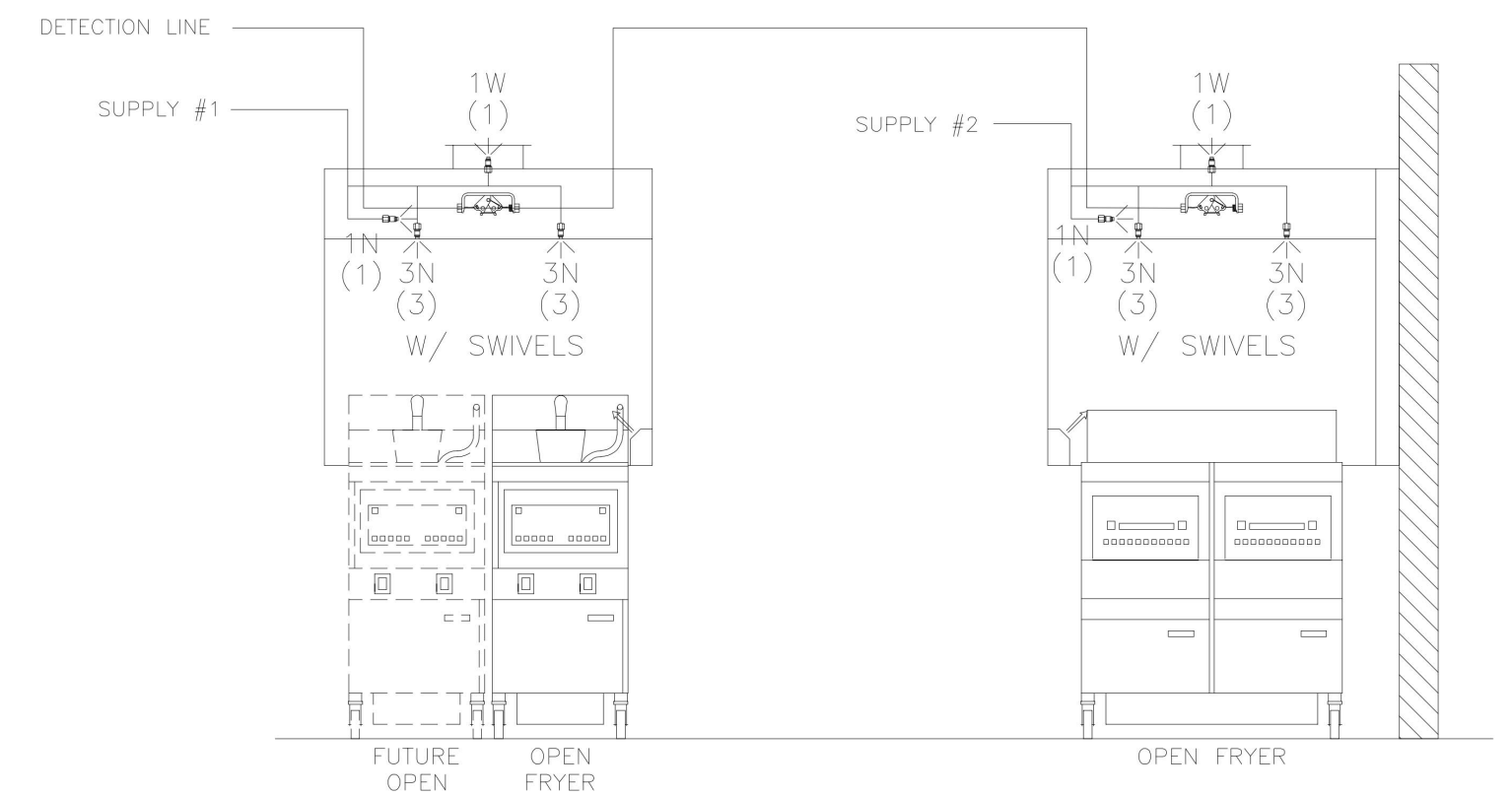


ANSUL R-102 FIRE SYSTEM
 A) 6 GALLON SYSTEM (2 TANKS)
 (REMOTE MOUNTED) (FOR HOOD H-2 & H-3)
 B) 3/8" BLACK IRON PIPING WITH 3/8" S.S. APPLIANCE DROPS

(1) REGULATED RELEASE
 (2) EXTRA MICRO SWITCH ASSEMBLIES (MOUNTED IN REG. REL.)
 (1) SINGLE TANK ENCLOSURE
 (2) 3 GALLON TANKS

ANSUL R-102 FIRE SYSTEM
 A) 9 GALLON SYSTEM (3 TANKS)
 (MOUNTED ON HOOD H-1L & H-1R)
 B) 3/8" BLACK IRON PIPING WITH 3/8" S.S. APPLIANCE DROPS

(1) OEM REGULATED RELEASE
 (2) EXTRA MICRO SWITCH ASSEMBLIES (MOUNTED IN OEM REG. REL.)
 (3) 3 GALLON TANKS



ANSUL R-102 FIRE SYSTEM LAYOUT

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

- ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS
- 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 CHARGES AIRFLOW MAY BE REQUIRED.

REVISE AND RESUBMIT
 APPROVED FOR FABRICATION
 WITH NO CHANGES
 WITH CHANGES AS NOTED

APPROVED BY: _____ DATE: _____



WEBSITE: www.halton.com

HALTON CO. (USA)
 101 INDUSTRIAL DRIVE
 SCOTTSVILLE, KY 42164
 1-270-237-8600

DATE: 09.19.23

BY: SKK

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

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

REVISION DESCRIPTION

REV: A ADDED 42" HOODS

PROJECT: CHICK-FIL-A #1139 ATLANTIC & HODGES

LOCATION: JACKSONVILLE, FL

DRAWN BY: SKK

DATE: 09.19.23

SCALE: NOT TO SCALE

DRAWING No.: U23-308-03

SHEET NO.: H-1.3

Halton