

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

LEGEND			
A-12-400	TYPE - NECK SIZE - CFM	EF#1	EXHAUST FAN #1 (TYP.)
(S)	REMOTE TEMPERATURE SENSOR	(A)	ANSUL PULL STATION
(H)	HUMIDITY SENSOR	(X)	RETURN/EXHAUST
(A)2	STROBE AUDIOVISUAL ALARM-ANNUNCIATOR	(X)	SUPPLY DIFFUSER (TYP.)
12x18	DUCT SIZE (REVERSE FOR ELEVATION VIEWS) 1ST NUMBER - HORIZONTAL DIMENSION 2ND NUMBER - VERTICAL DIMENSION	(1)	PLAN NOTE REFERENCE
(AC#1)	AIR CONDITIONING UNIT #1 (TYP.)	(CF)	CIRCULATING FAN
(M)	MANUAL VOLUME DAMPER	(SD)	SMOKE DETECTOR
(CO2)	CO2 SENSOR	(AD#1)	AIR DOOR#1 (TYP.)
		(CP)	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.	1101-1480 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: UL981 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.

NOTE:
REFER TO SCHEDULES AND DETAILS MECHANICAL SHEET FOR FURTHER INFORMATION.

NOTE:
MECHANICAL CONTRACTOR TO PROVIDE TEST AND BALANCE REPORT BEFORE FINAL INSPECTION.

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 ETU SPECIFICATIONS, AND SHALL CONFORM TO UL STANDARD 710, BUILT PER NFPA 96 SECTION 4.2.2., AND NSF LISTED. REFER TO SHEET MH-101.

NOTE:
IF BALANCING DAMPERS ARE NOT EXISTING IN THE BRANCH DUCT OR AT THE TAKE-OFF, MECHANICAL CONTRACTOR SHALL SUPPLY AND INSTALL NEW BALANCING DAMPERS WITHIN THE BRANCH DUCT (TYPICAL).

OMD CANOPY NOTE
REFER TO SHEET M-601 FOR FURTHER INFORMATION REGARDING CANOPY SCOPE. MECHANICAL CONTRACTOR TO PURCHASE AND MOUNT NEW CIRCULATION FANS. COORDINATE EXACT NUMBER OF FANS WITH CANOPY MANUFACTURER.

NOTE:
GENERAL CONTRACTOR TO HIRE REFRIGERATION CONTRACTOR TO RECLAIM REFRIGERANT FROM EXISTING FREEZER/COOLER ICE MAKERS AND RECHARGE EXISTING ICE MAKERS AFTER EQUIPMENT IS REINSTALLED. REFER TO KEY NOTES #2 AND #5 ON SHEET M-101.

HVAC KEY NOTES

- TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. TRANSITION WITHIN THE CURB WHERE REQUIRED TO AVOID STRUCTURE. NO TURNING VANES IN ELBOW, FOR RETURN AIR ONLY.
- PROVIDE NEW KITCHEN HOOD EXHAUST FAN REPLACING THE EXISTING FAN THROUGH THE EXISTING ROOF OPENING. PROVIDE NEW FAN WITH NEW CURB LOCATION SHOWN ON PLAN. ENSURE A MINIMUM OF 10 FT FROM FROM ANY NEW OR EXISTING OUTSIDE AIR INTAKE. COORDINATE EXACT LOCATION IN FIELD WITH EXISTING EQUIPMENT AND PIPING. SEE DETAIL ON M-401 FOR ORIENTATION OF HINGE SIDE OF FAN ON CURB.
- PROVIDE NEW KITCHEN HOOD EXHAUST FAN WITH NEW CURB LOCATION SHOWN ON PLAN. LOCATE A MINIMUM OF 10 FT FROM PARAPET WALLS OR FROM ANY NEW OR EXISTING OUTSIDE AIR INTAKE. COORDINATE EXACT LOCATION IN FIELD WITH EXISTING EQUIPMENT AND PIPING. SEE DETAIL ON M-401 FOR ORIENTATION OF HINGE SIDE OF FAN ON CURB.
- CJ-3 MOUNTED INSIDE CABINETS SERVING SCJ PLENUM, SEE DETAIL ON MH-101.
- NEW SUPPLY AIR DIFFUSERS. CONTRACTOR SHALL EXTEND EXISTING SUPPLY AIR DUCT AS REQUIRED. CFM IS EXISTING TO REMAIN.
- NEW RETURN AIR GRILLES. CONTRACTOR SHALL EXTEND EXISTING RETURN AIR DUCT AS REQUIRED. CFM IS EXISTING TO REMAIN.
- STRONG SYSTEMS SHALL SUPPLY AND INSTALL CO2 SENSOR ANALOG-ANALOG SENSOR SHALL BE MOUNTED AT 12" AFF WITH SPLASH GUARD AND CAGE. 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 12" MODEL 4075-LMB24-IF ROUND ZONE DAMPER WITH MODEL T-720A AUTOMATIC CHANGE-OVER THERMOSTAT. MOUNT T'STAT AT 4'-0" AFF. POWER OPEN/SRING CLOSE. ADJUST MECHANICAL LIMIT FOR 50 CFM MINIMUM AIRFLOW. CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARRROW COMPANY FOR THE ZONE DAMPER. THE MECHANICAL CONTRACTOR SHALL PURCHASE THE ZONE DAMPER DIRECTLY FROM TOM BARRROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010. FOR PRICING AND AVAILABILITY. ZONE DAMPERS NOT PURCHASED THRU TOM BARRROW COMPANY WILL NOT BE ACCEPTED.
- MOUNT THE NEW/EXISTING LENNOX HUMIDITY SENSOR ON THE WALL ABOVE THE SPACE TEMP SENSOR AND ROUTE NEW WIRING TO THE UNIT ON THE ROOF. PROVIDE NEW CONTROL WIRE TO ACCOMMODATE LOCATION, DO NOT SPLICE WIRE.
- MOUNT A NEW REMOTE TEMPERATURE SENSOR ON THE WALL AT 60" AFF AND ROUTE NEW WIRING BACK TO THE TEMP CONTROL PANEL. FOR SENSOR SERVING KITCHEN AC#1. COORDINATE THE EXACT LOCATION WITH KITCHEN EQUIPMENT PRIOR TO BID AND CONSTRUCTION.
- PROVIDE A LENNOX FACTORY INSTALLED SUPPLY SIDE & RETURN SIDE SMOKE DETECTORS. REFER TO SCHEDULE ON SHEET M-402 AND LENNOX SMOKE DETECTOR AND ANNUNCIATOR WIRING DIAGRAM ON SHEET M-501.
- 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. FOR MORE INFORMATION CONTACT: STRONG SYSTEMS INTERNATIONAL, INC. CHRIS VERCH (770) 729-1199 OR (770) 462-2501.
- 28x20 SUPPLY AIR RTU DROP AND (1) 60x15 RETURN AIR DROP FROM NEW KITCHEN AC#1.
- SUPPLY AIR DUCT ROUTED BELOW BAR JOIST AS HIGH AS POSSIBLE.
- 56"x16" RETURN AIR PLENUM AS CLOSE AS POSSIBLE TO BOTTOM OF ROOF JOIST.
- 16"x2" SIDE TAP IN RETURN AIR PLENUM 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.
- 20"x18" SUPPLY AIR RTU DROP TO 18"x16" AND 29"x11" RETURN AIR DROP TO 29"x20" FROM NEW AC#6 UNIT.
- AIR CURTAIN (AD#1) MOUNTED WITHIN CEILING CENTERED ABOVE DRIVE THRU DOOR 4" FROM THE EXTERIOR WALL AND (AD#3) 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). REFER TO DETAIL 7/M-401 FOR INFORMATION. ATTACH AIR CURTAIN TO STRUCTURE USING 3/8" ALL THREAD SUPPORTS

HVAC GENERAL NOTES

- DUCT SIZES SERVING DIFFUSERS AND GRILLES ARE SAME SIZE AS DIFFUSER OR GRILLE NECK UNLESS NOTED OTHERWISE.
- MECHANICAL CONTRACTOR SHALL BALANCE HVAC SYSTEM AS SHOWN ON THE PLAN & RTU SCHEDULE. IF AIRFLOWS DIFFER BY MORE THAN 5%, CONTACT CFA CONSTRUCTION MANAGER.
- NO PIPING OR DUCTWORK ALLOWED ABOVE ANY ELECTRICAL/CONTROL PANELS.
- COORDINATE NEW WORK WITH EXISTING CONDUITS, STRUCTURE, & PIPING. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. CONTRACTOR TO NOTIFY DESIGN TEAM WITHOUT DELAY IF ACTUAL LOCATION OF EXISTING MECHANICAL EQUIPMENT DOES NOT MATCH FLOOR PLAN.
- CONTRACTOR SHALL CLEAN & REFURBISH ALL EXISTING DUCTWORK. PATCH & REPAIR OPENING AIR TIGHT OF EXISTING DUCTWORK AS REQUIRED (TYPICAL ALL). FIELD VERIFY AND COORDINATE ALL EXISTING HVAC SIZES, LOCATIONS, AND CONDITION PRIOR TO BID.
- REUSE AND REWORK EXISTING HVAC DUCTWORK. PROVIDE NEW SECTION FOR RECONNECTION AS REQUIRED. FIELD VERIFY ALL REQUIREMENTS PRIOR TO BID.
- CONTRACTOR SHALL BALANCE, INSPECT, REPAIR, OR REPLACE AS NECESSARY IF REQUIRED FOR EXISTING CEILING OR SIDEWALL MOUNTED AIR DEVICES TO REMAIN. FIELD VERIFY AND COORDINATE EXACT SIZE, AIR QUANTITY, LOCATION, AND CONDITION PRIOR TO BID. AIR FLOW SHALL REMAIN AS IS UNLESS NOTED ON PLAN, OR DIRECTED BY CONSTRUCTION MANAGER. ANY DEFICIENCIES AND OR DISCREPANCIES SHALL BE REPORTED TO ARCHITECT/ENGINEER IMMEDIATELY. COORDINATE AIR BALANCE RESULTS WITH CONSTRUCTION MANAGER.
- FLEXIBLE DUCT NOT SHOWN FOR CLARITY. ALL TAKE-OFFS SHALL INCLUDE FLEXIBLE DUCT. SEE DETAIL 1/M-401 FOR FLEXIBLE DUCT INSTALLATION REQUIREMENTS.
- 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.



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CHICK-FIL-A
 BEACH & HODGES
 13672 BEACH BLVD.
 JACKSONVILLE, FL 32224-1206

FSU#02251
 BUILDING TYPE / SIZE: S06-C LRG
 RELEASE

REVISION SCHEDULE	
NO.	DATE DESCRIPTION
2	10/21/2023 PERMIT REV 2
3	11-30-2023 BID ADD 1

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 SHEET
 MECHANICAL FLOOR PLAN
 SHEET NUMBER

M-201

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FOR CONSTRUCTION

CIRCULATING FAN SCHEDULE

MARK	CFM	RPM	HP	MODEL	MANUFACTURER
CF	5,750	1,625	1/8	U18TE-HD	TPI

REMARKS

- ALUMINUM PADDLE WITH STEEL HUB/SPIDER PROPELLER
- 360° ROTATING HEAD HORIZONTALLY AND VERTICALLY
- OSHA COMPLIANT DOUBLE LOCKING, COATED STEEL WIRE GUARD
- 3-SPEED, TOTALLY ENCLOSED, PERMANENTLY LUBRICATED BALL BEARING MOTOR
- FACTORY PRE-WIRED POWER CORD
- PROVIDE FACTORY WALL MOUNTING BRACKET. SEE MANUFACTURERS RECOMMENDATIONS FOR INSTALLATION INSTRUCTIONS
- PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. MOUNT TO UNDERSIDE OF CANOPY OR EXISTING OVERHANG, FACING DOWNWARD, 12" Laterally FROM THE FAN LOCATION
- REMOVE PULL CHAIN EXTENSION AT ON/OFF SWITCH IN FIELD
- FACTORY CERTIFIED FOR OUTDOOR INSTALLATION

AIR DEVICE SCHEDULE

MARK	DESCRIPTION	LOCATION	NECK SIZE	FACE SIZE	FRAME TYPE	REMARKS
A	PRICE MODEL APCD ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS	DINING/ KITCHEN	VARIES	24"x24"	LAY-IN	1,7
C	PRICE MODEL SMC2 STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS	ENTRY	14"x14"	19"x19"	BEVELED	1,5,6
E	TITUS MODEL 27ZFL DOUBLE DEFLECTION ALUMINUM SIDEWALL SUPPLY GRILLE, FRONT BLADE PARALLEL TO LONG SIDE.	PLAYGROUND	18"x12"	20"x14"	SURFACE	1
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 SMC2 STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS	RESTROOMS	10"x10"	15"x15"	BEVELED	1,2,5,6
K	PRICE MODEL APCDR ALUMINUM PERFORATED FACE RETURN AIR GRILLE.	RESTROOM ENTRY	14"x14"	16"x16"	SURFACE	1,4,5,6
L	PRICE MODEL 21 ALUMINUM SIDEWALL RETURN GRILLE, FRONT BLADE PARALLEL TO LONG SIDE	PLAY AREA	12"x12"	14"x14"	SURFACE	1

NOTES

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REMARKS

- STANDARD OFF WHITE FINISH
- PROVIDE MODELVC3S NECK DAMPER.
- NOT USED
- PROVIDE MODEL VCR7 NEC 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 2 ON SHEET M3.1
- FACTORY INSULATED R-6 BACKPAN.

AIR BALANCE SCHEDULE

MARK	SUPPLY AIR	RETURN AIR	OUTSIDE AIR	EXHAUST AIR	BUILDING POSITIVE PRESSURE
AC-1 (NEW)	9,500	7,500	2,000		
AC-2	2,800	2,240	560		
AC-3	4,000	3,100	900		
AC-4	2,765	2,205	560		
AC-5	1,800	1,440	360		
AC-6 (NEW)	1,200	960	240		
EF-1				1,913	
EF-2				701	
EF-3 (EXISTING)				400	
EF-4				701	
TOTALS:	22,065	17,445	4,620	3,715	+905

NOTES:

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

GAS FIRED ROOFTOP UNIT SCHEDULE

MARK	AREA SERVED	TONNAGE	COOLING CAPACITY (MBH)		HEATING CAPACITY (MBH)		FAN SECTION (CFM) INCLUDING EXISTING AC UNITS REBALANCE				MODEL	% OA	MODEL	MANUFACTURER	ELECTRICAL DATA			REMARKS	APPROX. WEIGHT WITH OPTIONS (POUNDS)
			TOTAL	SENS	INPUT	OUTPUT	SUPPLY	O.A.	HP	ESP					V/PH/Hz	MCA	MOPP		
NEW AC-1	KITCHEN	25.0	281.0	270.0	480	384	9,500	2,000	10	0.8	-	21.1%	LGT300S4MM	LENNOX	208/3/60	146	175	1.3,4,5,7,8,9,10,12,14,15,16, 17,18	2,700
EXISTING AC-2	DINING A, RR	8.5	EXISTING	EXISTING	EXISTING	EXISTING	2,800	560	-	-	EXISTING	18.6%	EXISTING	EXISTING	208/3/60	-	-	EXISTING	EXISTING
EXISTING AC-3	DINING B	10.0	EXISTING	EXISTING	EXISTING	EXISTING	4,000	900	-	-	EXISTING	22.5%	EXISTING	EXISTING	208/3/60	-	-	EXISTING	EXISTING
EXISTING AC-4	DINING B	7.5	EXISTING	EXISTING	EXISTING	EXISTING	2,765	560	-	-	EXISTING	20.3%	EXISTING	EXISTING	208/3/60	-	-	EXISTING	EXISTING
EXISTING AC-5	PLAY AREA	5.0	EXISTING	EXISTING	EXISTING	EXISTING	1,800	360	-	-	EXISTING	20%	EXISTING	EXISTING	208/3/60	-	-	EXISTING	EXISTING
NEW AC-6	BOH	3.0	36.0	26.6	100	80	1,200	240	0.5	0.5	-	20%	LGT036H4EB	LENNOX	208/3/60	20	26	2,3,4,5,7,8,9,10,12,14,15,16,17	800

NOTES:

- COOLING CAPACITIES ARE GROSS, BASED ON ENTERING: 80FDB/67FWB, OUTDOOR: 95FDB, AND 400 CFM PER TON.
- CHICK-FIL-A MAINTAINS A NATIONAL ACCOUNT FOR EQUIPMENT WITH LENNOX CORPORATION. CONTACT LENNOX NATIONAL ACCOUNTS AT 972-497-6219 (OR BY FAX AT 972-497-5112) FOR PRICING, ORDERING AND AVAILABILITY.
- MECHANICAL CONTRACTOR TO VERIFY LENNOX SUBMITTAL WITH CONSTRUCTION DOCUMENTS.

REMARKS

- PROVIDE DIFFERENTIAL ENTHALPHY ECONOMIZER WITH POWER EXHAUST
- PROVIDE DIFFERENTIAL ENTHALPHY ECONOMIZER WITH BAROMETRIC EXHAUST
- PROVIDE 14" HIGH ROOF CURB. PROVIDE CURBS PLUS ANCHOR IN ACCORDANCE WITH NOA #21-1119.01. REFER TO 8/M-401 FOR ANCHORING.
- SEE DETAIL ON SHEET M-501 FOR SETTING OF PRODIGY M3 BOARD CONTROL PARAMETERS BY MC.
- PROVIDE FACTORY INSTALLED AND UNIT POWERED 115V GFI SERVICE OUTLET.
- PROVIDE FACTORY INSTALLED 115V GFI SERVICE OUTLET.
- PROVIDE FACTORY INSTALLED SUPPLY AND 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 FRESH AIR TEMPERING KIT.
- PROVIDE FACTORY COIL HALL 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
- PROVIDE FACTORY STAINLESS STEEL HEAT EXCHANGER.

CONTRACTOR SHALL VERIFY EXACT ELECTRICAL CONNECTIONS, WIRE SIZES, BREAKERS, DISCONNECT, ETC. FOR THE NEW ROOFTOP UNITS PRIOR TO ORDERING AND BID.

DUCTLESS SPLIT SYSTEM

UNIT MARK	SERVICE	LOCATION	SEER	EER	INDOOR UNIT				FAN DATA	ELECTRICAL SERVICE				MANUFACTURER MODEL NUMBER (AS STANDARD)	UNIT NUMBER	LOCATION	OUTDOOR UNIT				REMARKS				
					TOTAL MBH	SENSIBLE MBH	INDOOR TEMP DB(F)	WB(F)		OUTDOOR TEMP DB(F)	CFM 3-SPEED	MCA	MOPP				VOLTS	PH	HZ	MCA		MOPP	VOLTS	PH	HZ
AC-7	DRIVE-THRU	DRIVE-THRU	16.2	12.0	33.5	23.8	75	64	95	635-73-830	1.0	-	208	1	60	MITSUBISHI / PKA-A30KA7	CU-7	ROOFTOP	28.0	40	208	1	60	MITSUBISHI / PUZ-HA36NH45	1,2,3,4,5,6,7,8,9

NOTES:

- INDOOR UNIT SHALL BE STANDARD COLOR: WHITE
- PROVIDE WITH INDOOR MOUNTING BRACKET. COORDINATE WITH ARCHITECT FOR SUPPORT BLOCKING IN WALL.
- PROVIDE WITH CLEANABLE FILTERS.
- INDOOR UNIT IS POWERED FROM OUTDOOR UNIT.
- PROVIDE WALL-MOUNTED THERMOSTAT MODEL PAR-CT01MAU-SB ON WALL. MC TO PROGRAM THERMOSTAT TO MATCH ADJACENT AIR SYSTEM SETPOINTS.
- PROVIDE DRAIN PAN OVERFLOW SENSOR WIRED TO SHUT DOWN UNIT IN CASE OF DETECTION OF INCREASED WATER LEVEL IN DRAIN PAN.
- PROVIDE 208/230V MINI CONDENSATE PUMP W/RESERVOIR AND SENSOR. IF GRAVITY FLOW TO DRAIN IS NOT FEASIBLE.
- PROVIDE PAC-SE55RA-E CONNECTOR AT INDOOR UNIT CONNECTION CN32, WIRE ORANGE AND RED WIRES TO SPARE POLE ON R-1 RELAY IN SUNCOAST T-500 PANEL. (TERMINALS 11 & 7, RESPECTIVELY) AND CAP THE BROWN WIRE.
- PROVIDE HIGH-WIND TIE-DOWN ANCHOR IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS. REFER TO DETAILS.

EXHAUST FAN SCHEDULE

MARK	CFM	ESP	RPM	HP	AREA SERVED	MODEL	MANUFACTURER	REMARKS
EF-1	1,912	0.75	1,078	3/4	HOOD-1 L&R	180VCR	LOREN COOK	1,2,3,4,5,7
EF-2	701	0.75	1,216	1/4	HOOD H-3	150VCR-HP	LOREN COOK	1,2,3,4,5,7
EF-3	400	-	-	-	RESTROOMS	-	EXISTING	8
EF-4	701	0.75	1,216	1/4	HOOD H-2	150VCR-HP	LOREN COOK	1,2,3,4,5,7

NOTES

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

REMARKS

- PROVIDE FACTORY 1'-0" BASE CURB AND EXTENSION.
- PROVIDE FACTORY INSTALLED, PRE-WIRED, NEMA 3 NON-FUSED DISCONNECT.
- PROVIDE FACTORY INSTALLED HINGED BASE KIT. REFER TO DETAIL SHEET M3.1 FOR HINGE LOCATION INFORMATION.
- PROVIDE AND INSTALL ROOFTOP SOLUTIONS G2 DRIP GUARD. MECHANICAL CONTRACTOR TO CONTACT ROOFTOP SOLUTIONS AT 800-913-7034.
- INTEGRAL THERMAL OVERLOAD WITH AUTOMATIC RESET.
- EXISTING EXHAUST FAN TO REMAIN.
- PROVIDE ROOFTOP ANCHORING. REFER TO 2/M-301.

AIR DOOR SCHEDULE

MARK	CFM	VELOCITY	HEATING CAPACITY	HP	AREA SERVED	MODEL	MANUFACTURER	REMARKS
AD-1	1,543	2,240 FPM	10 KW	3/4 HP	DRIVE THRU	CHA-1-48(E)	POWERED AIRE	1,2,3,5
AD-2	3867	4,220 FPM	N/A	3/4 HP	REAR DOOR	RBT-1-48	POWERED AIRE	4
AD-3	1,197	2,443 FPM	10 KW	3/4 HP	DRIVE THRU	CHA-1-36(E)	POWERED AIRE	1,2,3

NOTES

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REMARKS

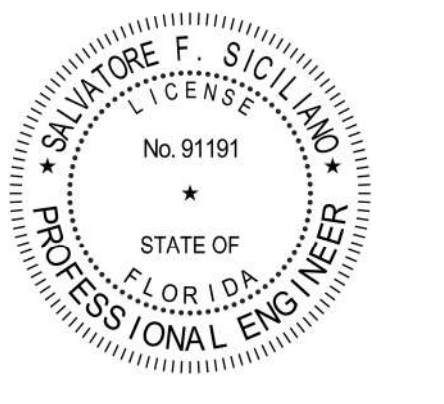
- FACTORY PROVIDED, WIRED AND UNIT MOUNTED SPEED CONTROLLER LOCATED ABOVE CEILING.
- FACTORY WIRED DISCONNECT.
- FACTORY PROVIDED, FIELD INSTALLED BY MC. REMOTE WALL SWITCHES FOR HEATING ON/OFF AND FAN ON/AUTO. SEE DETAIL, AIR CURTAIN WIRING DIAGRAM.
- FACTORY PROVIDED MAGNETIC DOOR CONTACT WITH FACTORY INSTALLED LOW VOLTAGE CONTROLS LOCATED IN AIR DOOR CABINET.
- PROVIDE WITH DIVERTER BOX. PROVIDE WITH MOUNTING BRACKETS PER MANUFACTURER'S RECOMMENDATION. INSTALL 6" FROM THE WALL.



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



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A Full Service A & E Firm
Plans Prepared By:
CPH, LLC.
Licenses:
Eng. C.O.A. No. 3215
Survey L.B. No. 7143
Arch. Lic. No. AAZ600926
Lndscp. Lic. No. LC0000298



CHICK-FIL-A
BEACH & HODGES
13672 BEACH BLVD.
JACKSONVILLE, FL 32224-1206

FSU#02251

BUILDING TYPE / SIZE: S06-C LRG

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	10/31/2023	PERMIT REV 2
2	11-30-2023	BID ADD 1

CONSULTANT PROJECT #	C291118
PRINTED FOR	BID
DATE	12/07/2023
DRAWN BY	JRH

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SHEET
HVAC SCHEDULES

SHEET NUMBER
M-402

Autodesk Docs://FL_02251_Beach & Hodges FSU_2022.11_REI/02251_MEC_Beach & Hodges Remodel.rvt
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30-02251-M-402-HVAC SCHEDULES

MODEL: KVL-2-IC

STANDARD FEATURES

- S.S. FILTERS (KSA) 3
- 10 S.S. FILTERS (KSA) *
- CAPTURE-JET *
- STAND-OFF *
- L.E.D. LIGHTS 2

OPTIONS

- REMOTE SWITCH PANEL *
- FIRE PROTECTION *
- ETL LISTED *
- W/O EXHAUST DAMPER *
- CEILING CLOSURE 2
- STD. BACKPLASH *
- INSULATED BACKPLASH *
- KBD DAMPER *

MATERIAL

EXPOSED SURFACES 18 GA. S.S.

ALL 18 GA. S.S.

COMMENTS

CLOSURE HEIGHT = TBD (TWO SIDES)
CEILING CLOSURE RECESSED 1" FROM FRONT TO CREATE SHELF

30"x4" ACCESS DOOR LEFT SIDE FOR ACCESS TO CAPTURE-JET WITH FRONT C.J. INTAKE & KBD

CONTINUOUS CAPTURE INTERNAL LEFT END CLOSURE

3" REAR STAND-OFF TO HAVE 1" THICK INSULATION

EQUIPMENT COVERED (3) PRESSURE FRYERS

DATE 03.02.23 **DWG. NO.** U23-211-01 **ITEM NO.** H-1L **EXHAUST AIR INFORMATION** CFM TAB SP 709 13" 23"

PROJECT: CHICK-FIL-A #2251 BEACH & HODGES

LOCATION: JACKSONVILLE, FL

CAPTURE AIR INFORMATION CFM SP 47

HOOD WEIGHT = 394 LBS

DATE 03.02.23 **DWG. NO.** U23-211-01 **ITEM NO.** H-1R **EXHAUST AIR INFORMATION** CFM TAB SP 1204 13" 30"

PROJECT: CHICK-FIL-A #2251 BEACH & HODGES

LOCATION: JACKSONVILLE, FL

CAPTURE AIR INFORMATION CFM SP 80

HOOD WEIGHT = 666 LBS

DATE 03.02.23 **DWG. NO.** U23-211-01 **ITEM NO.** H-2 **EXHAUST AIR INFORMATION** CFM TAB SP 701 30" 30"

PROJECT: CHICK-FIL-A #2251 BEACH & HODGES

LOCATION: JACKSONVILLE, FL

CAPTURE AIR INFORMATION CFM SP 30

HOOD WEIGHT = 245 LBS

DATE 03.02.23 **DWG. NO.** U23-211-01 **ITEM NO.** H-3 **EXHAUST AIR INFORMATION** CFM TAB SP 701 30" 30"

PROJECT: CHICK-FIL-A #2251 BEACH & HODGES

LOCATION: JACKSONVILLE, FL

CAPTURE AIR INFORMATION CFM SP 30

HOOD WEIGHT = 245 LBS

DATE 03.02.23 **DWG. NO.** U23-211-01 **ITEM NO.** H-3 **EXHAUST AIR INFORMATION** CFM TAB SP 701 30" 30"

PROJECT: CHICK-FIL-A #2251 BEACH & HODGES

LOCATION: JACKSONVILLE, FL

CAPTURE AIR INFORMATION CFM SP 30

HOOD WEIGHT = 245 LBS

MODEL: KVL-2-IC

STANDARD FEATURES

- S.S. FILTERS (KSA) 5
- 10 S.S. FILTERS (KSA) *
- CAPTURE-JET *
- STAND-OFF *
- L.E.D. LIGHTS 3

OPTIONS

- REMOTE SWITCH PANEL *
- FIRE PROTECTION *
- ETL LISTED *
- W/O EXHAUST DAMPER *
- CEILING CLOSURE 2
- STD. BACKPLASH *
- INSULATED BACKPLASH *
- KBD DAMPER *

MATERIAL

EXPOSED SURFACES 18 GA. S.S.

ALL 18 GA. S.S.

COMMENTS

CLOSURE HEIGHT = TBD (TWO SIDES)
CEILING CLOSURE RECESSED 1" FROM FRONT TO CREATE SHELF

FRONT CLOSURE PANEL WITH 40"x24" LIFT DOOR LEFT SIDE AT CAPTURE-JET WITH FRONT C.J. INTAKE

CONTINUOUS CAPTURE INTERNAL LEFT END CLOSURE

3" REAR STAND-OFF TO HAVE 1" THICK INSULATION

EQUIPMENT COVERED (4) PRESSURE FRYERS (3) GRILLS

DATE 03.02.23 **DWG. NO.** U23-211-01 **ITEM NO.** H-1R **EXHAUST AIR INFORMATION** CFM TAB SP 1204 13" 30"

PROJECT: CHICK-FIL-A #2251 BEACH & HODGES

LOCATION: JACKSONVILLE, FL

CAPTURE AIR INFORMATION CFM SP 80

HOOD WEIGHT = 666 LBS

DATE 03.02.23 **DWG. NO.** U23-211-01 **ITEM NO.** H-2 **EXHAUST AIR INFORMATION** CFM TAB SP 701 30" 30"

PROJECT: CHICK-FIL-A #2251 BEACH & HODGES

LOCATION: JACKSONVILLE, FL

CAPTURE AIR INFORMATION CFM SP 30

HOOD WEIGHT = 245 LBS

DATE 03.02.23 **DWG. NO.** U23-211-01 **ITEM NO.** H-3 **EXHAUST AIR INFORMATION** CFM TAB SP 701 30" 30"

PROJECT: CHICK-FIL-A #2251 BEACH & HODGES

LOCATION: JACKSONVILLE, FL

CAPTURE AIR INFORMATION CFM SP 30

HOOD WEIGHT = 245 LBS

MODEL: KVL-C-IC

STANDARD FEATURES

- S.S. FILTERS (KSA) 2
- CAPTURE-JET *
- STAND-OFF *
- L.E.D. LIGHTS 1

OPTIONS

- REMOTE SWITCH PANEL *
- FIRE PROTECTION *
- ETL LISTED *
- W/O EXHAUST DAMPER *
- CEILING CLOSURE 2
- STD. BACKPLASH *
- INSULATED BACKPLASH *
- KBD DAMPER *

MATERIAL

EXPOSED SURFACES 18 GA. S.S.

ALL 18 GA. S.S.

COMMENTS

CLOSURE HEIGHT = TBD (TWO SIDES)
CEILING CLOSURE RECESSED 1" FROM FRONT TO CREATE SHELF

FRONT CLOSURE PANEL WITH 40"x24" LIFT DOOR LEFT SIDE AT CAPTURE-JET WITH FRONT C.J. INTAKE

CONTINUOUS CAPTURE INTERNAL LEFT END CLOSURE

3" REAR STAND-OFF TO HAVE 1" THICK INSULATION

EQUIPMENT COVERED (2) FRYERS

DATE 03.02.23 **DWG. NO.** U23-211-01 **ITEM NO.** H-3 **EXHAUST AIR INFORMATION** CFM TAB SP 701 30" 30"

PROJECT: CHICK-FIL-A #2251 BEACH & HODGES

LOCATION: JACKSONVILLE, FL

CAPTURE AIR INFORMATION CFM SP 30

HOOD WEIGHT = 245 LBS

DATE 03.02.23 **DWG. NO.** U23-211-01 **ITEM NO.** H-3 **EXHAUST AIR INFORMATION** CFM TAB SP 701 30" 30"

PROJECT: CHICK-FIL-A #2251 BEACH & HODGES

LOCATION: JACKSONVILLE, FL

CAPTURE AIR INFORMATION CFM SP 30

HOOD WEIGHT = 245 LBS

MODEL: KVL-C-IC

STANDARD FEATURES

- S.S. FILTERS (KSA) 2
- CAPTURE-JET *
- STAND-OFF *
- L.E.D. LIGHTS 1

OPTIONS

- REMOTE SWITCH PANEL *
- FIRE PROTECTION *
- ETL LISTED *
- W/O EXHAUST DAMPER *
- CEILING CLOSURE 3
- STD. BACKPLASH *
- INSULATED BACKPLASH *
- KBD DAMPER *

MATERIAL

EXPOSED SURFACES 18 GA. S.S.

ALL 18 GA. S.S.

COMMENTS

CLOSURE HEIGHT = TBD (THREE SIDES)
CEILING HEIGHT = ADVISE CEILING CLOSURE RECESSED 1" FROM FRONT TO CREATE SHELF

30"x4" ACCESS DOOR CENTERED AT CAPTURE-JET W/ FRONT C.J. INTAKE

NOTCHED LEFT END PANEL DOUBLE RECEPTACLE PIN & SLEEVE

3" REAR SIDE STAND-OFF TO HAVE 1" THICK INSULATION

EQUIPMENT COVERED (2) FRYERS

DATE 03.02.23 **DWG. NO.** U23-211-01 **ITEM NO.** H-3 **EXHAUST AIR INFORMATION** CFM TAB SP 701 30" 30"

PROJECT: CHICK-FIL-A #2251 BEACH & HODGES

LOCATION: JACKSONVILLE, FL

CAPTURE AIR INFORMATION CFM SP 30

HOOD WEIGHT = 245 LBS

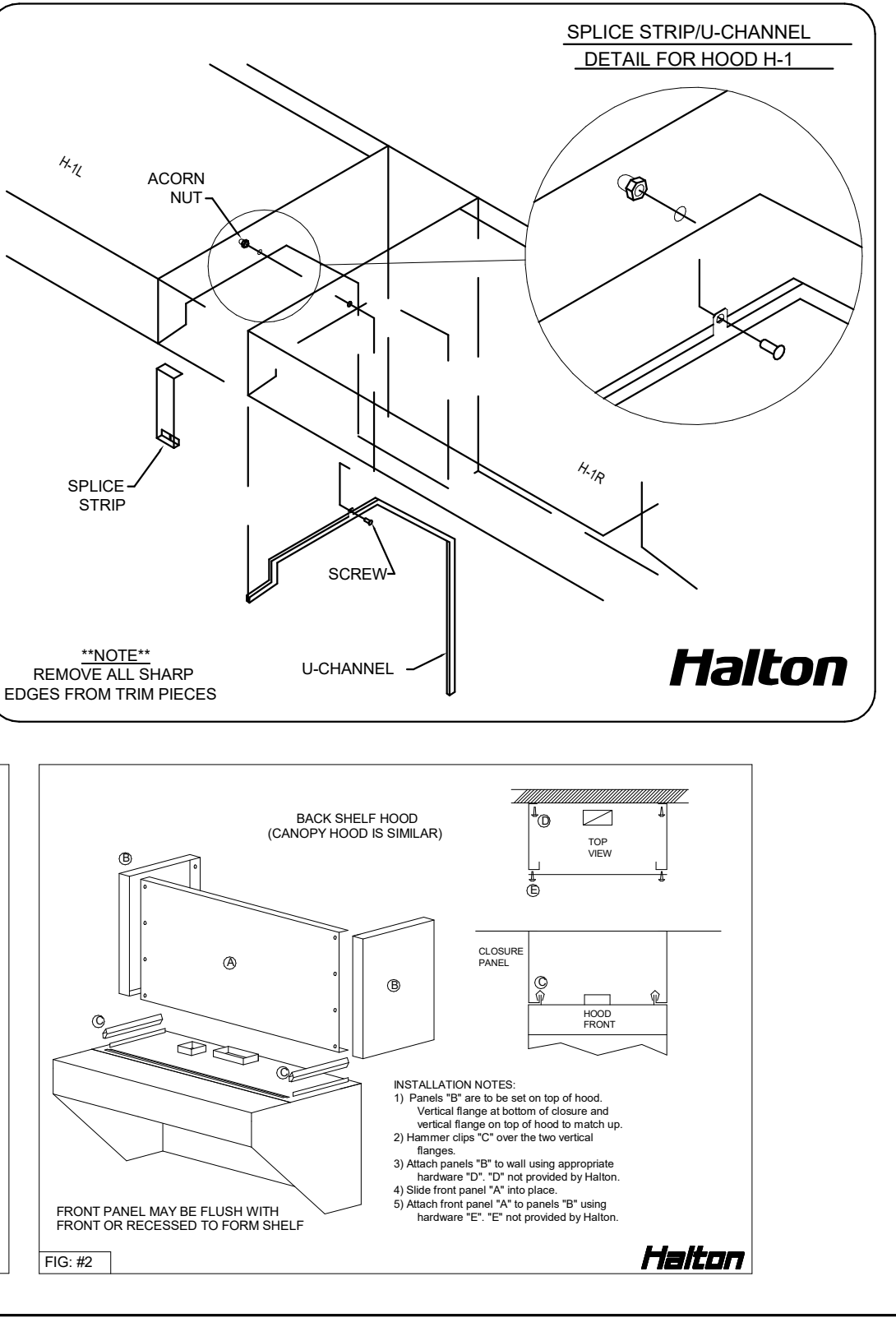
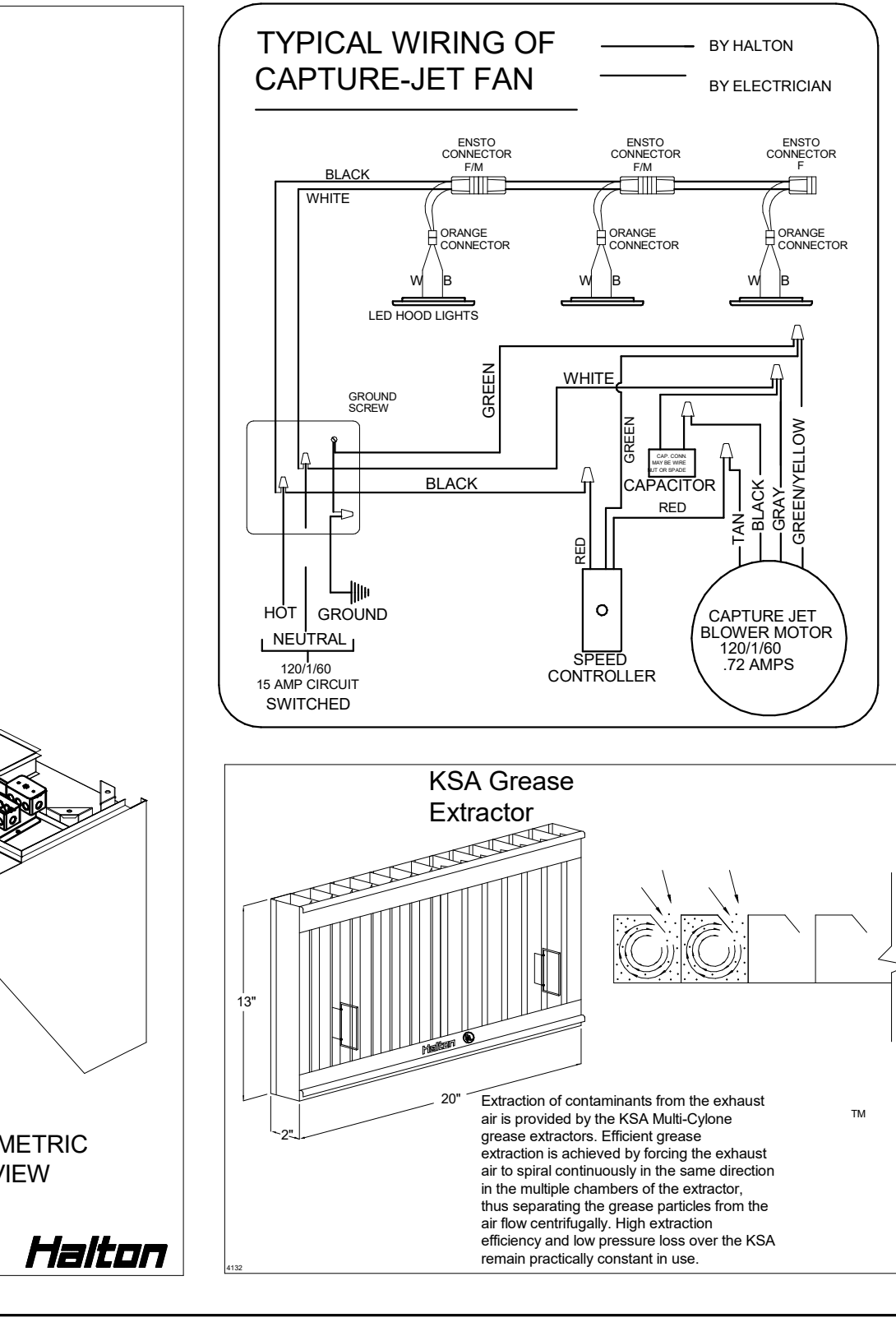
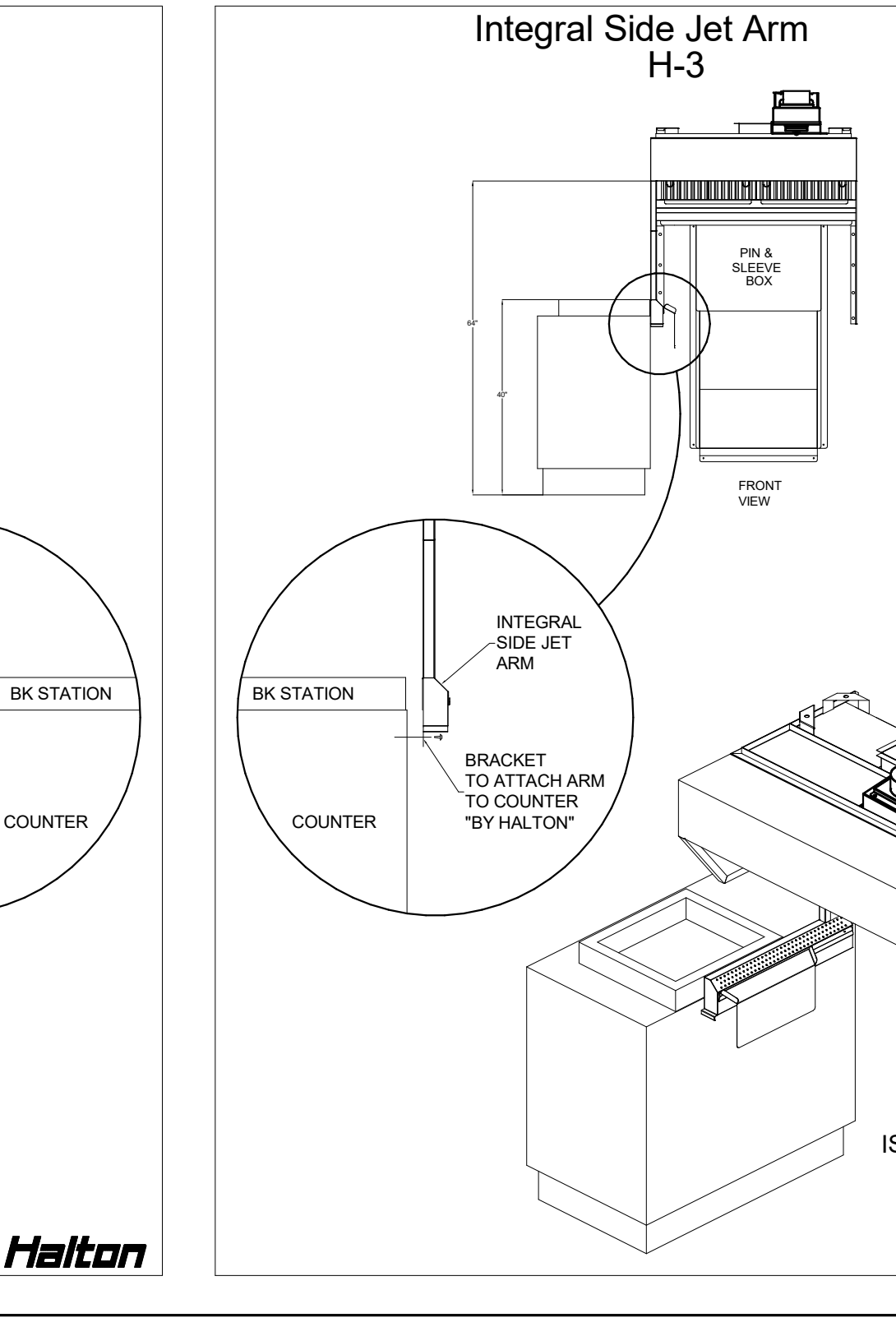
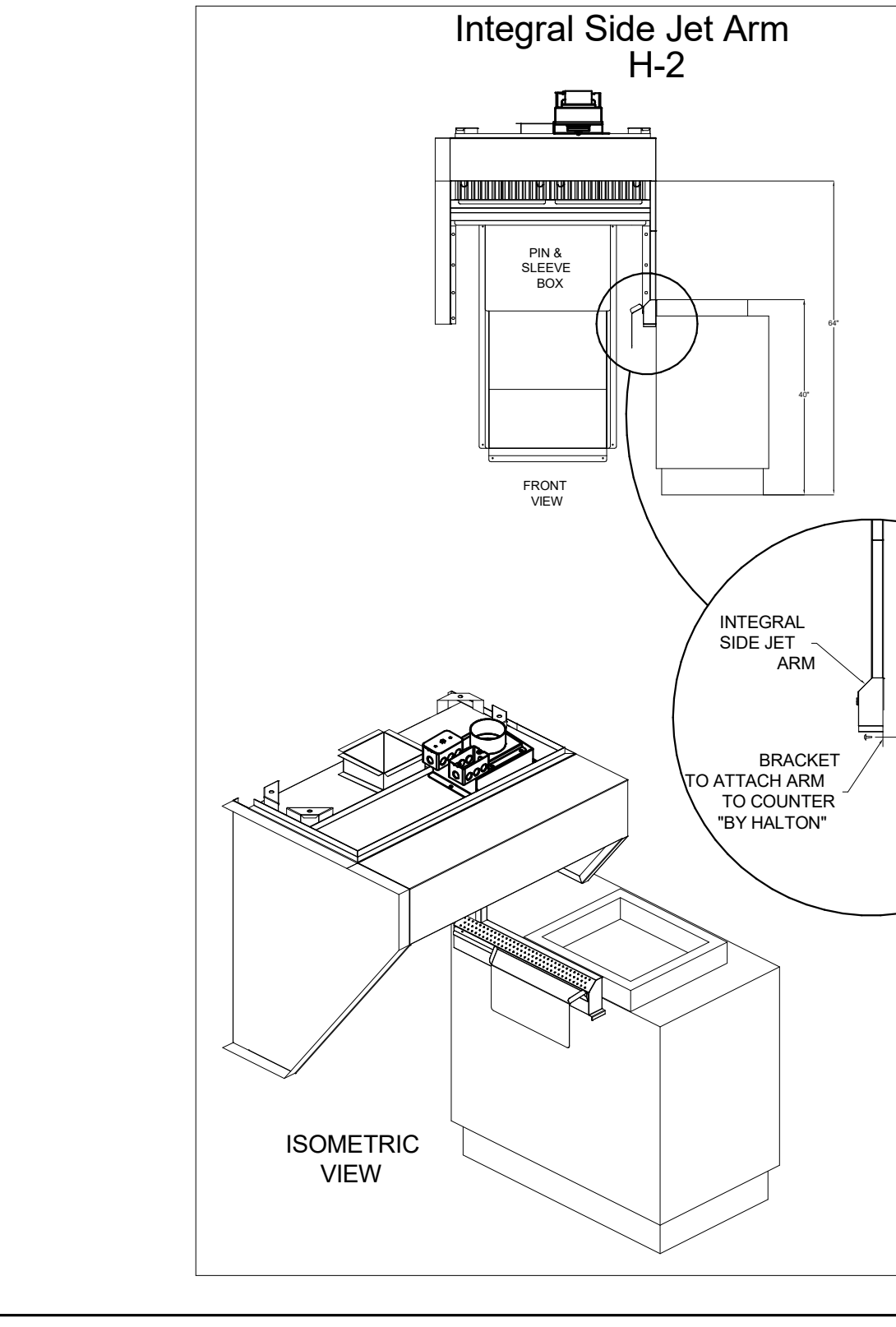
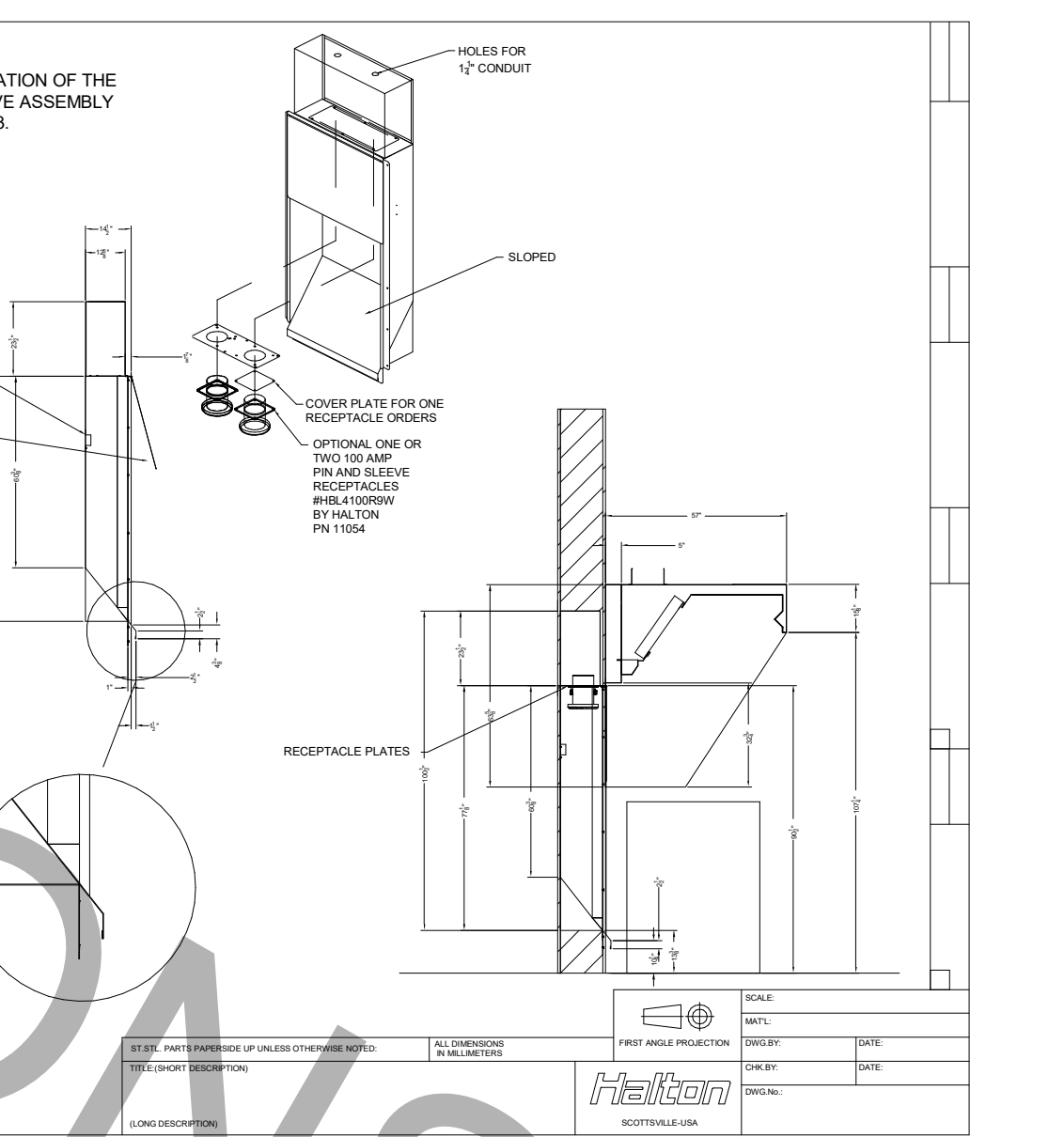
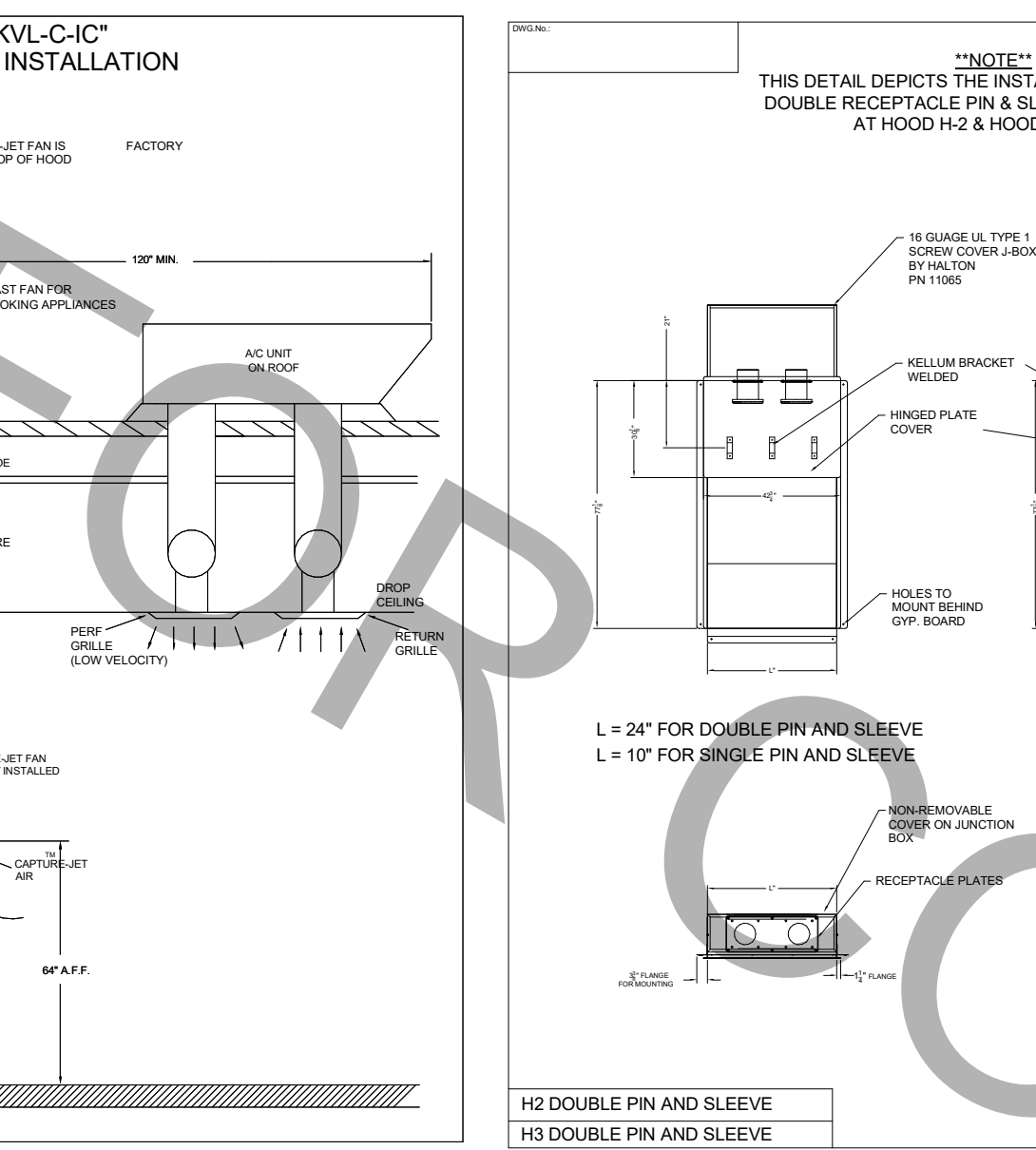
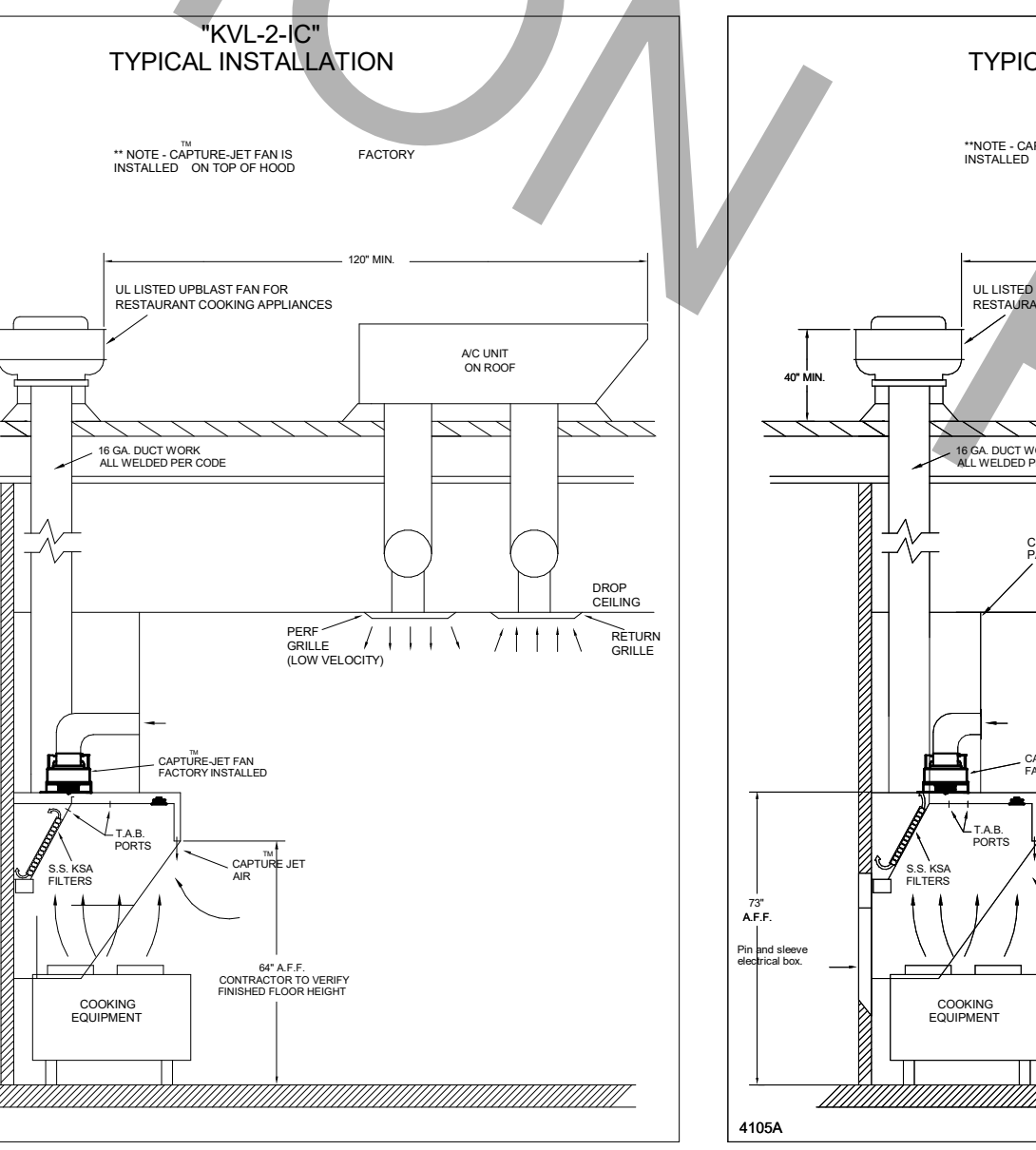
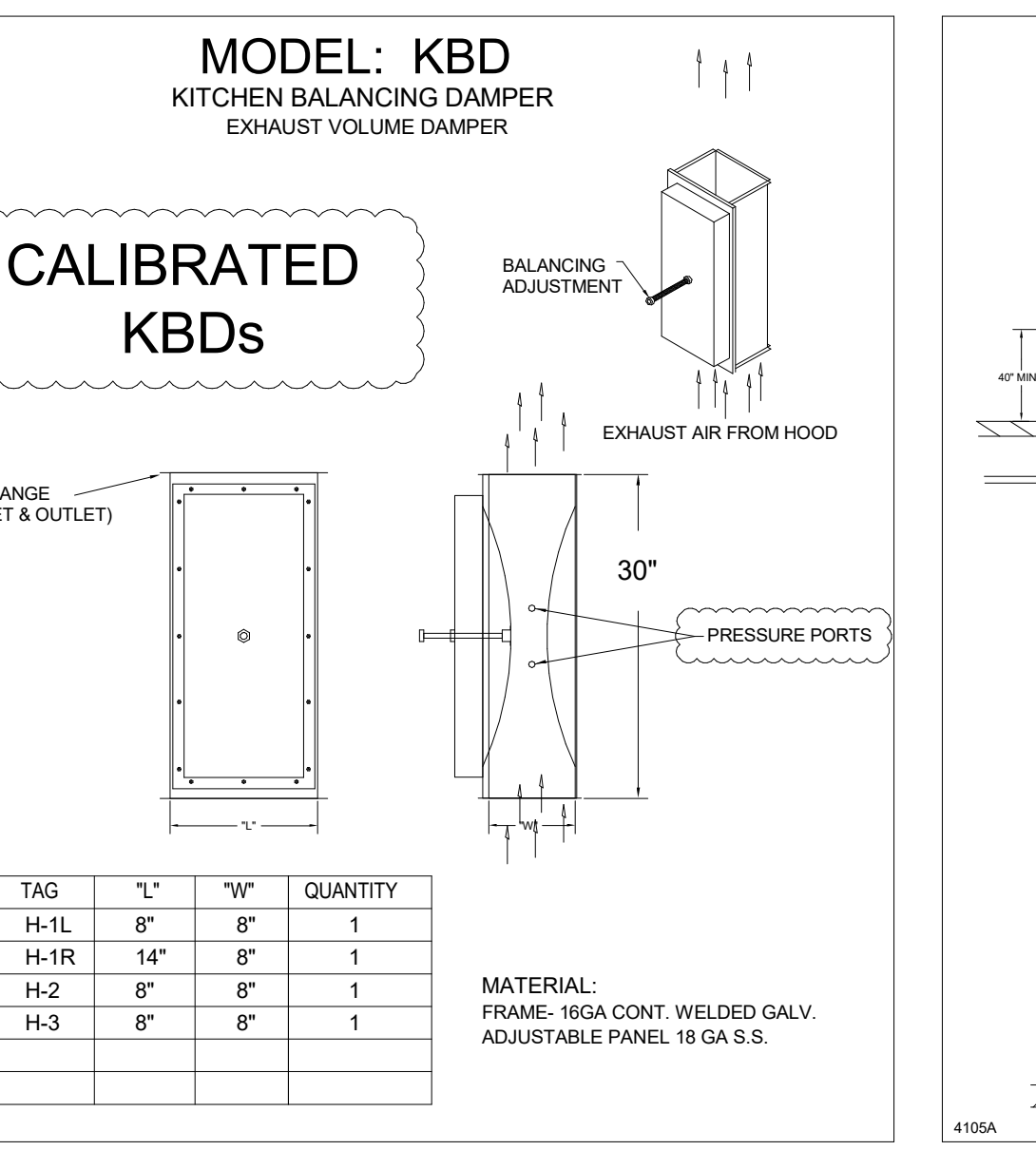
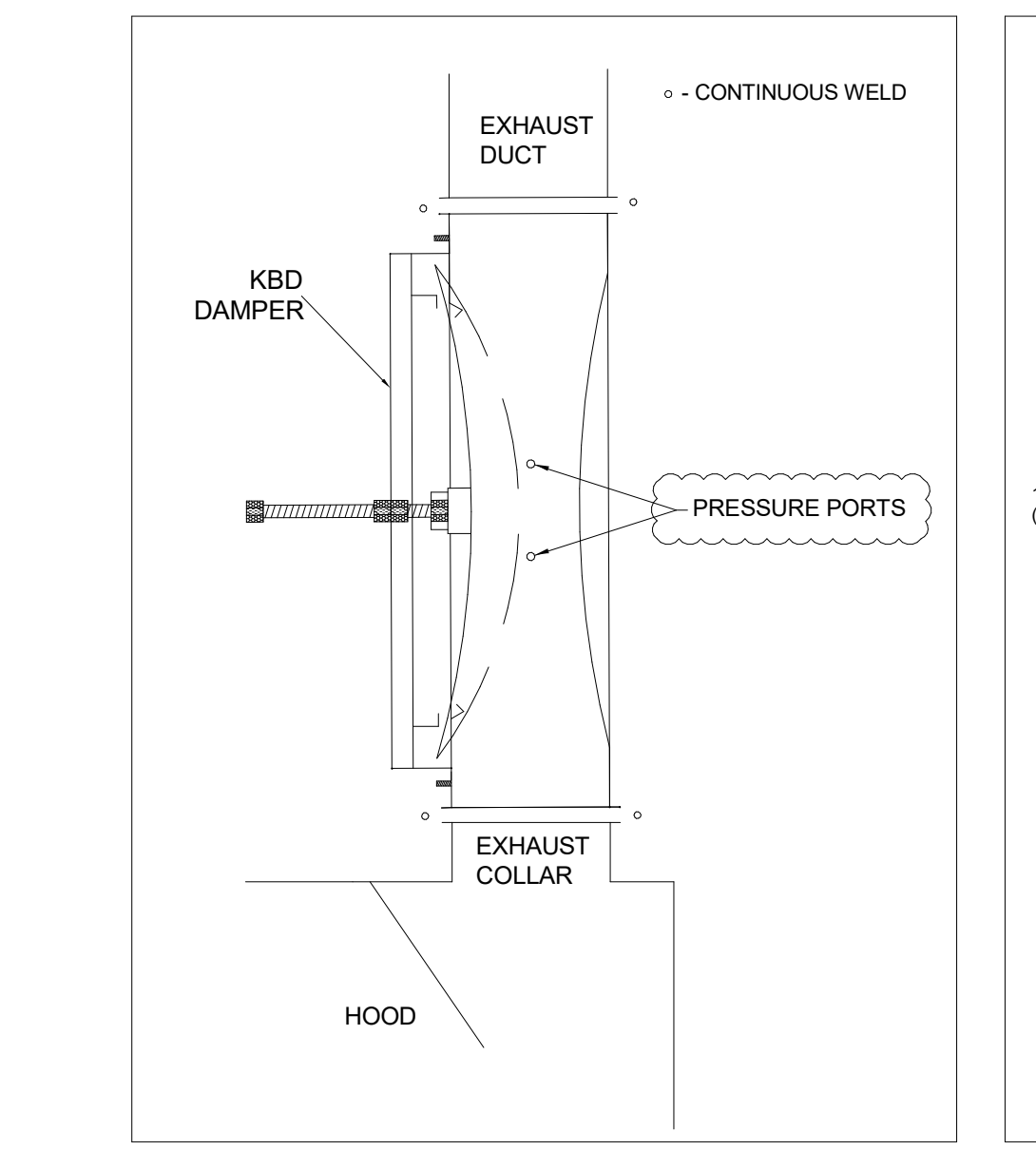
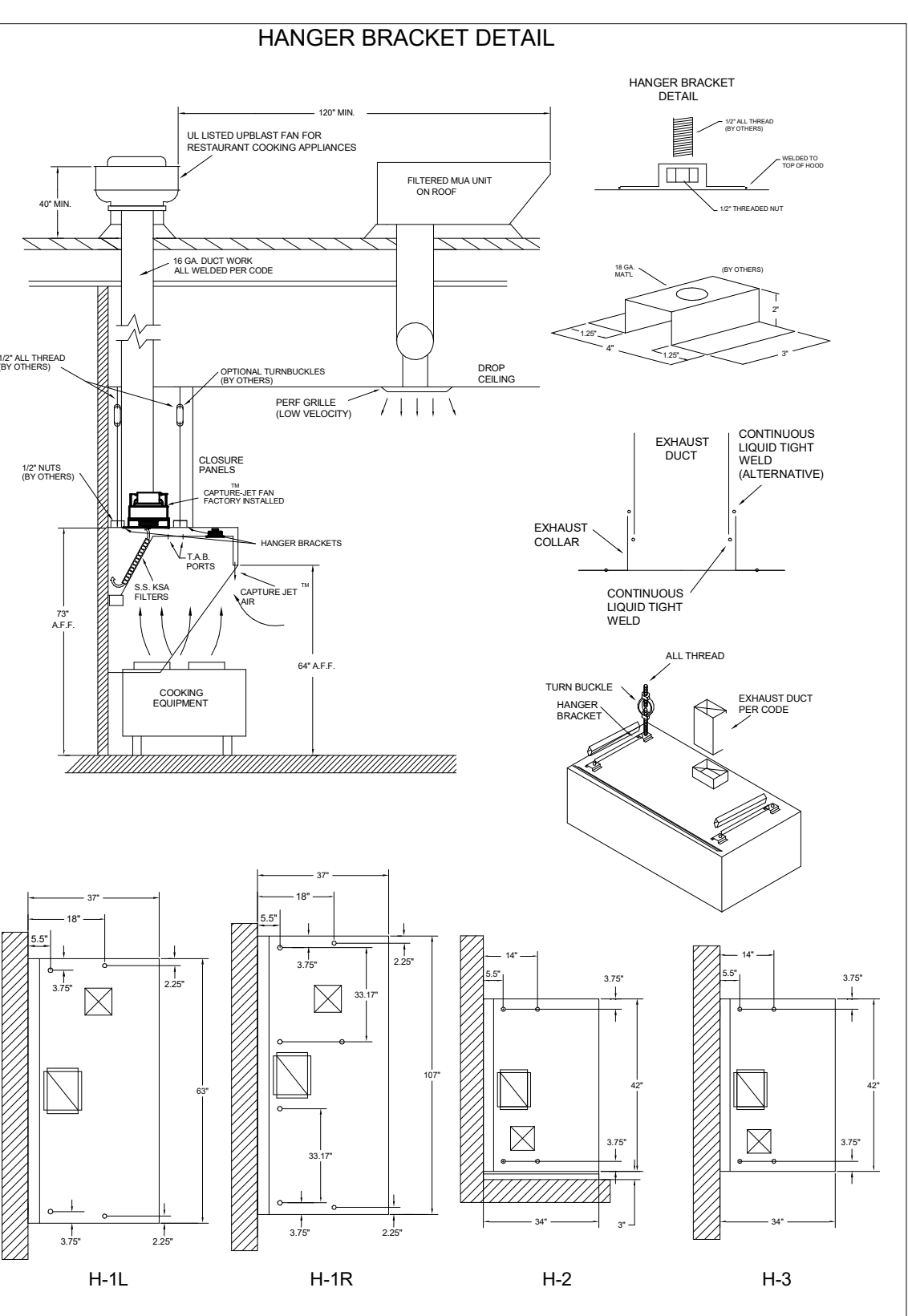
DATE 03.02.23 **DWG. NO.** U23-211-01 **ITEM NO.** H-3 **EXHAUST AIR INFORMATION** CFM TAB SP 701 30" 30"

PROJECT: CHICK-FIL-A #2251 BEACH & HODGES

LOCATION: JACKSONVILLE, FL

CAPTURE AIR INFORMATION CFM SP 30

HOOD WEIGHT = 245 LBS



NSF Halton

GENERAL REQUIREMENTS

FOR THE BEST HOOD FOR COMMERCE AND PROFESSIONAL KITCHENS THE HOODS ARE DESIGNED FOR 100% OF THE CAPACITY OF THE HOODS. THE HOODS ARE DESIGNED FOR 100% OF THE CAPACITY OF THE HOODS. THE HOODS ARE DESIGNED FOR 100% OF THE CAPACITY OF THE HOODS.

DATE: 08/02/23

SCALE: NOT TO SCALE

DATE: 08/02/23

SCALE: NOT TO SCALE

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

1. THE LOCATION AND TYPE OF COOKING EQUIPMENT, AND CLEARANCES.
2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.

NOTE TO APPROVER

ANY CHANGES IN COOKING EQUIPMENT OR INCREASED ENERGY INPUTS OF EQUIPMENT MUST BE APPROVED BY THE FACTORY. ANY CHANGES IN COOKING EQUIPMENT OR INCREASED ENERGY INPUTS OF EQUIPMENT MUST BE APPROVED BY THE FACTORY. ANY CHANGES IN COOKING EQUIPMENT OR INCREASED ENERGY INPUTS OF EQUIPMENT MUST BE APPROVED BY THE FACTORY.

APPROVED FOR FABRICATION: WITH CHANGES AS NOTED WITH NO CHANGES

APPROVED BY: _____ DATE: _____

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

WEBSITE: www.halton.com

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

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

REV.	DATE	DESCRIPTION
1	08/02/23	ISSUE FOR FABRICATION

PROJECT: CHICK-FIL-A #2251 BEACH & HODGES

LOCATION: JACKSONVILLE, FL

DRAWN BY: SKM **DATE:** 08/02/23

SCALE: NOT TO SCALE

DATE: 08/02/23

SCALE: NOT TO SCALE

DATE: 08/02/23

SCALE: NOT TO SCALE

Chick-fil-A

Chick-Fil-A

5200 Buffington Road
Atlanta, Georgia
30349-2998

e-ph

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Plans Prepared By: CPH, LLC.

Licenses:
Eng. C.O.A. No. 3215
Survey L.B. No. 7143
Arch. Lic. No. A2300926
Landscape Lic. No. LC000298

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.

UL **NSF** **ETL**

CHICK-FIL-A
BEACH & HODGES

13672 BEACH BLVD.
JACKSONVILLE, FL 32224-1206

FSU#02251

BUILDING TYPE / SIZE: S06-C LRG

RELEASE:

REVISION SCHEDULE

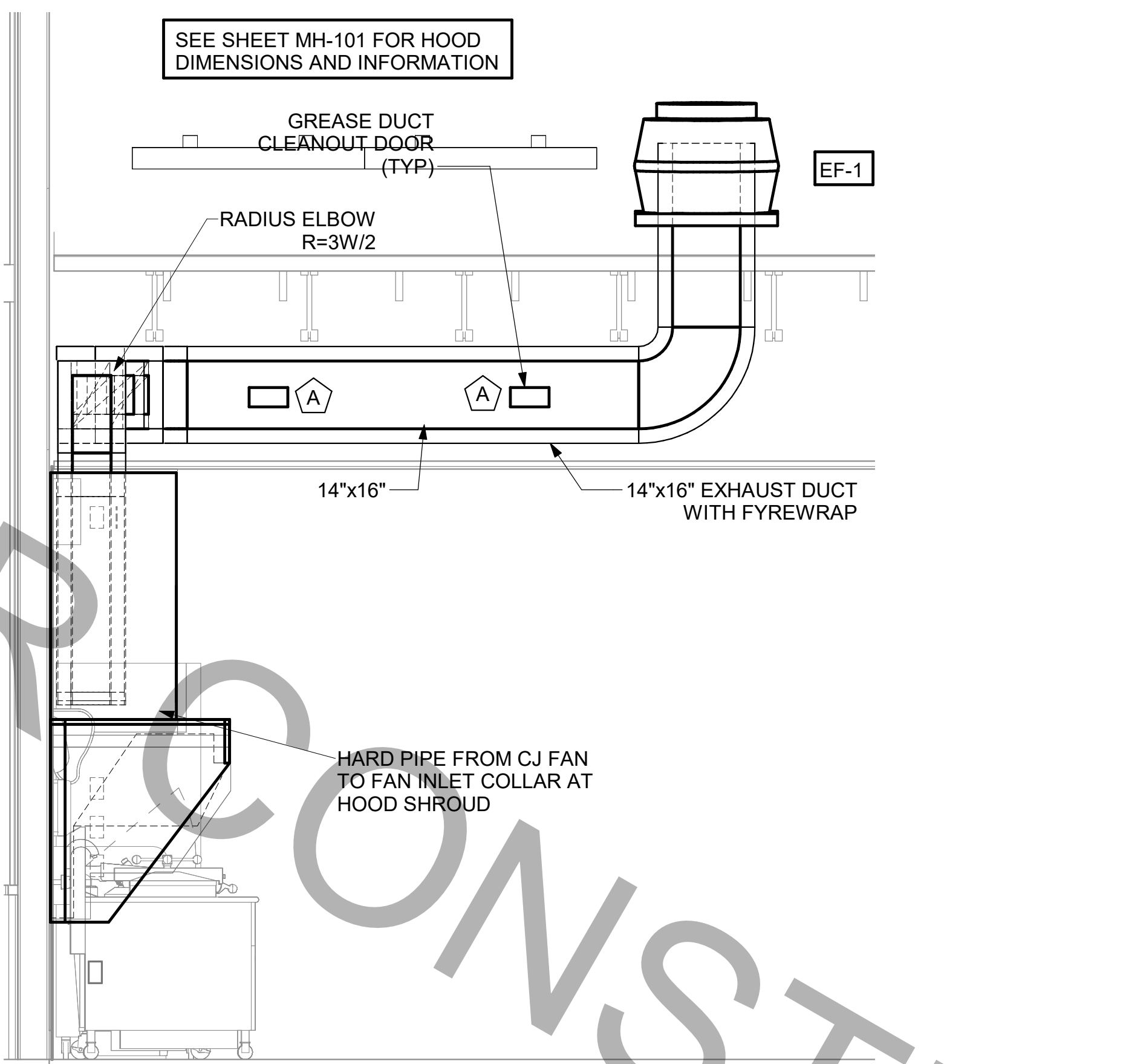
NO.	DATE	DESCRIPTION
1	08/02/23	ISSUE FOR FABRICATION

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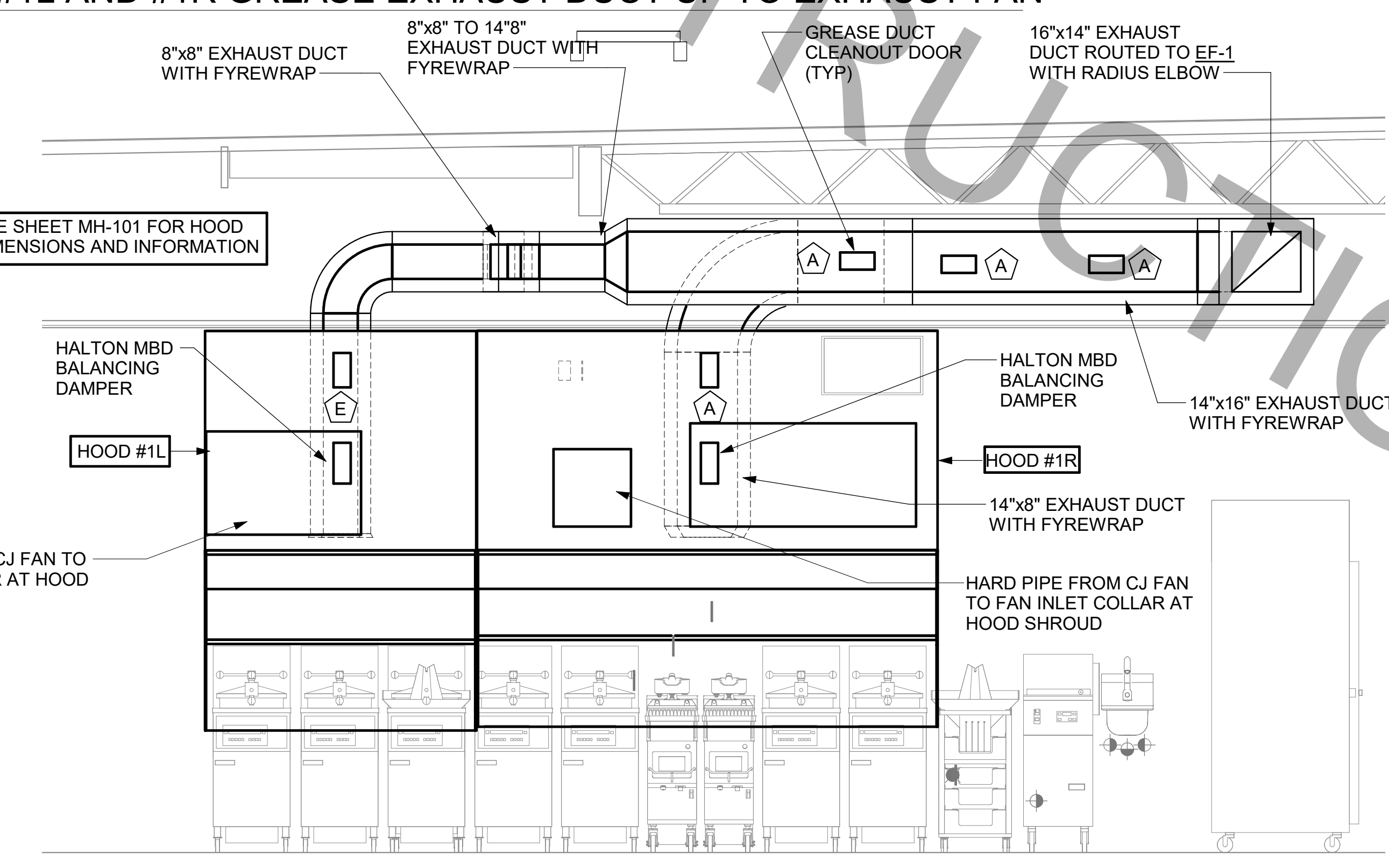
HALTON HOOD SHOP DRAWING

SHEET NUMBER: MH-101

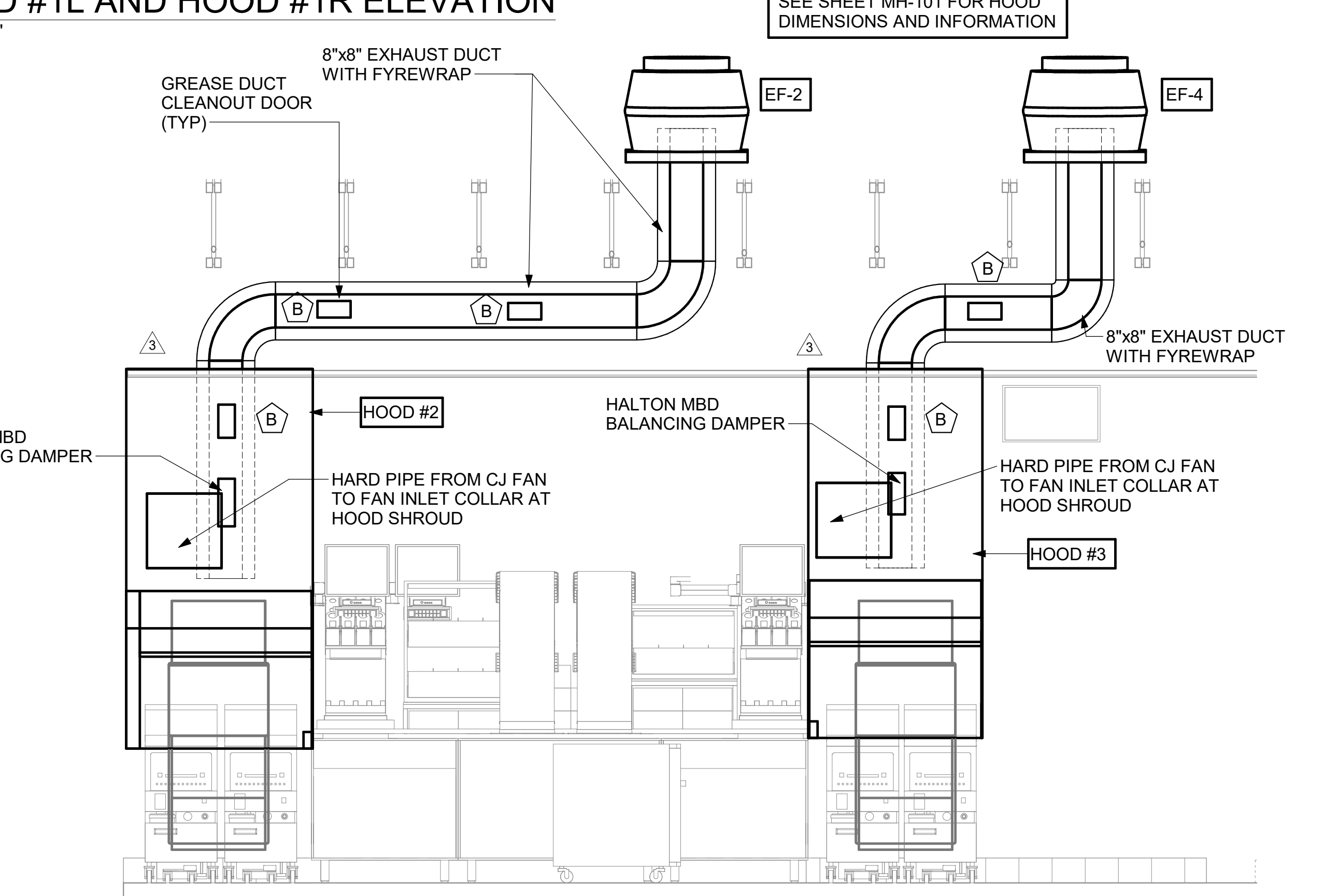
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30-02251-MH-101-HALTON HOOD SHOP DRAWING



6 HOOD #1L AND #1R GREASE EXHAUST DUCT UP TO EXHAUST FAN
1/2" = 1'-0"



5 HOOD #1L AND HOOD #1R ELEVATION
1/2" = 1'-0"



4 HOOD #2 AND HOOD #3 ELEVATION
1/2" = 1'-0"

KITCHEN HOOD SYSTEMS NOTES

- 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.
- THE FIRE SUPPRESSION SYSTEM SHALL CONSIST OF A COMPLETE WET ANSUL SYSTEM FURNISHED BY HALTON. THE HOOD SHALL BE FURNISHED PRE-PIPED BY HALTON.
- 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 HIRED BY HALTON.
- HOOD EXHAUST DUCTWORK SHALL BE 16 GA. BLACK STEEL WITH CONTINUOUS LIQUID TIGHT WELD OF JOINTS & SEAMS.
- TURNS IN GREASE EXHAUST DUCTWORK SHALL BE LONG RADIUS TYPE, WITH A CENTERLINE RADIUS R=3W/2, NO EXCEPTIONS ALLOWED. NO MITERED FITTINGS ALLOWED.
- ALL STAINLESS STEEL CLOSURE PANELS SHALL BE SUPPLIED BY HOOD MANUFACTURER AND INSTALLED BY THE MECHANICAL CONTRACTOR ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- SLOPE ALL GREASE EXHAUST DUCT BACK TO HOOD AT 1/4" PER FOOT OF RUN.
- WRAP NEW GREASE DUCT WITH UNIFRAX FIBREWRAP. INSULATION ON ACCESS DOORS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTALLATION RECOMMENDATIONS. UNIFRAX FIBREWRAP PRODUCT USED SHALL MEET LOCAL CODE REQUIREMENTS.
- 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. SYSTEM NOTE

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.

HOOD ELEVATION NOTE

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

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 COMBUSTIBLE CLEARANCE NOTE

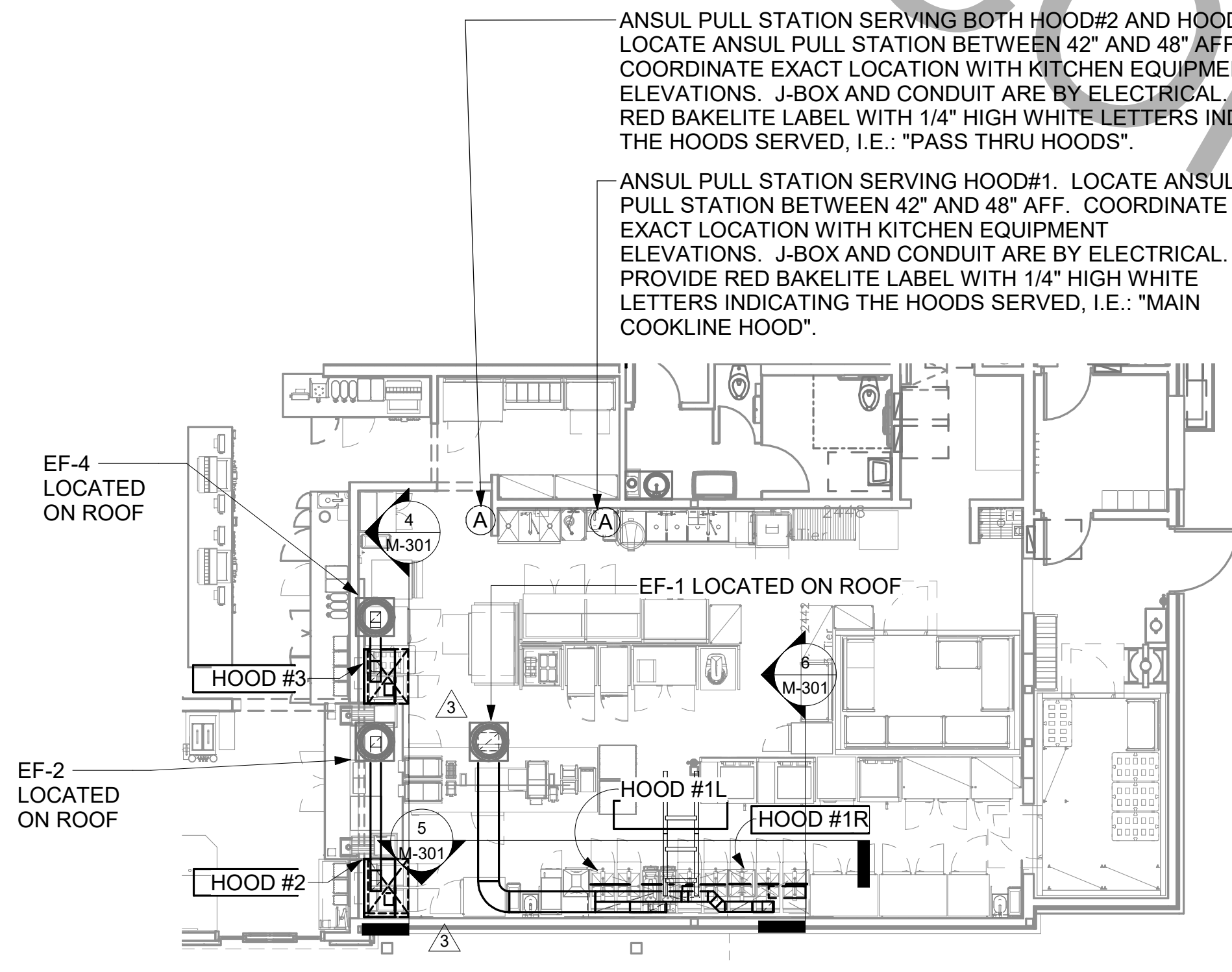
ALL NEW HOODS SHALL BE RATED WITH ONE INCH THICK LAYER OF FACTORY INSTALLED INSULATION TO MEET "ZERO INCH CLEARANCE" TO COMBUSTIBLE MATERIALS. HOOD SHALL BE CERTIFIED BY ETL SPECIFICATIONS, AND SHALL CONFORM TO UL STANDARD 710, BUILT PER NFPA 96 SECTION 4.2.2., AND NSF LISTED.

HOOD SCHEDULE

MARK	EXHAUST CFM	SP @ TAB PORT	CAPTURE JET CFM & S.P.	TYPE	COLLAR SIZE	WIDTH	DEPTH	HEIGHT	MANUFACTURER	MODEL	REMARKS
NEW HOOD-1R	1204	0.13	80 @ 0.30"	BACK-SHELF	14"x8"	107	37	38	HALTON	KVL-2-IC	1,2,3,4,5,7,8,9,12,16,21,23
NEW HOOD-1L	709	0.13	47 @ 0.30"	BACK-SHELF	8"x8"	63	37	38	HALTON	KVL-2-IC	1,2,3,5,7,8,9,12,21,22
NEW HOOD-2	701	0.30	30 @ 0.29"	BACK-SHELF	8"x8"	42	34	38	HALTON	KVL-C-IC	1,2,3,6,7,8,9,11,12,13,15,16,18,21
NEW HOOD-3	701	0.30	30 @ 0.29"	BACK-SHELF	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).
TYPICAL INSTALLATION FOR NEW HOODS. FIELD VERIFY & COORDINATE WITH HOOD DRAWINGS BY HALTON. REFER TO SHEET MH-101 & MH-102 PRIOR TO BID & CONSTRUCTION.

- REMARKS**
- STAINLESS STEEL CONSTRUCTION.
 - 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.
 - PROVIDE PRE-PIPED ANSUL R-102 WET FIRE EXTINGUISHING SYSTEM.
 - ANSUL CABINET AND COMPONENTS ABOVE HOOD ON LEFT SIDE.
 - PROVIDE 3" ZERO CLEARANCE TO COMBUSTIBLE BACK SPACER.
 - PROVIDE 3" ZERO CLEARANCE TO COMBUSTIBLE CUSTOM BACK SPACER TO ACCOMMODATE PIN AND SLEEVE ELECTRICAL BOX.
 - PROVIDE EQUIPMENT I.D. LABELS LOCATED ON FRONT LEADING EDGE OF HOOD.
 - PROVIDE FACTORY WALL MOUNTING ANGLE AT TOP OF HOOD.
 - PROVIDE TOP PLENUM CAPTURE JET FAN, SPEED CONTROLLER AND COLLAR.
 - PROVIDE FACTORY INSTALLED INTEGRAL SIDE JET ARM ON RIGHT END.
 - PROVIDE FACTORY INSTALLED INTEGRAL SIDE JET ARM ON LEFT END.
 - PROVIDE CAPTURE JET AIR INLET AND COLLAR AT FRONT OF CLOSURE PANEL.
 - PROVIDE PIN AND SLEEVE ELECTRICAL BOX (DOUBLE CONNECTION). SEE ARCH. AND ELEC. DRAWINGS FOR ADDITIONAL INFORMATION.
 - PROVIDE PIN AND SLEEVE ELECTRICAL BOX (SINGLE CONNECTION). SEE ARCH. AND ELEC. DRAWINGS FOR ADDITIONAL INFORMATION.
 - PROVIDE 3" ZERO CLEARANCE TO COMBUSTIBLE RIGHT SIDE SPACER.
 - PROVIDE NOTCHED LEFT END SIDE PANEL.
 - PROVIDE NOTCHED RIGHT END SIDE PANEL.
 - PROVIDE 3"x3" HORIZONTAL AND VERTICAL TRIM ANGLE FOR RIGHT SIDE OF HOOD TO FINISH OFF GAP AT WALL.
 - PROVIDE FULL LEFT END SIDE PANEL.
 - PROVIDE FULL RIGHT END SIDE PANEL.
 - PROVIDE HALTON MBD EQUALIZER.
 - CONTINUOUS CAPTURE INTERNAL RIGHT END CUTOUT.
 - CONTINUOUS CAPTURE INTERNAL LEFT END CUTOUT.

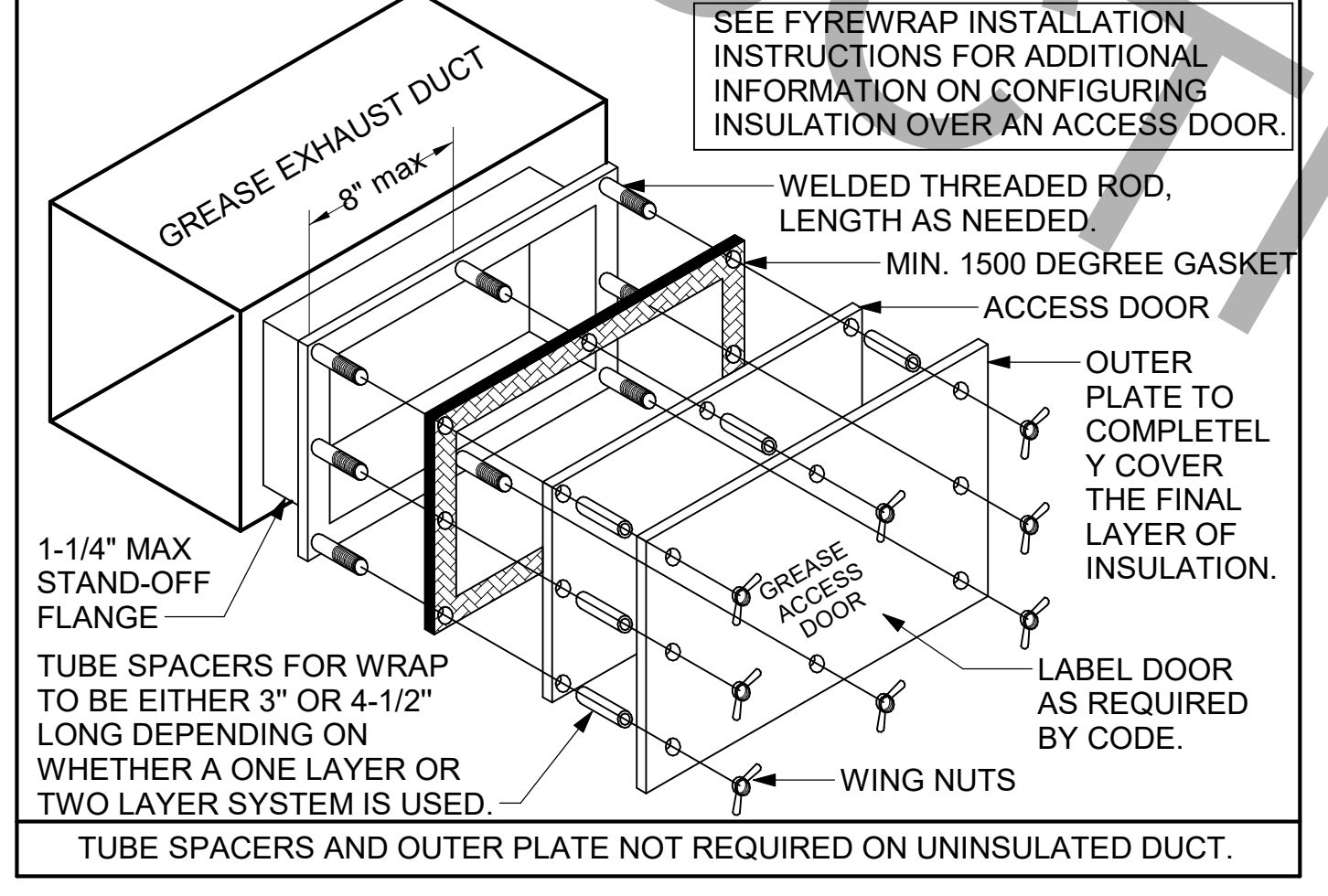


3 HOOD LAYOUT AND ANSUL PULL STATION LOCATIONS
1/8" = 1'-0"

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.



1 GREASE ACCESS DOOR SCHEDULE
1/4" = 1'-0"



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



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Landscape Lic. No. LC0000298



CHICK-FIL-A
BEACH & HODGES
13672 BEACH BLVD.
JACKSONVILLE, FL 32224-1206

FSU#02251

BUILDING TYPE / SIZE: S06-C LRG

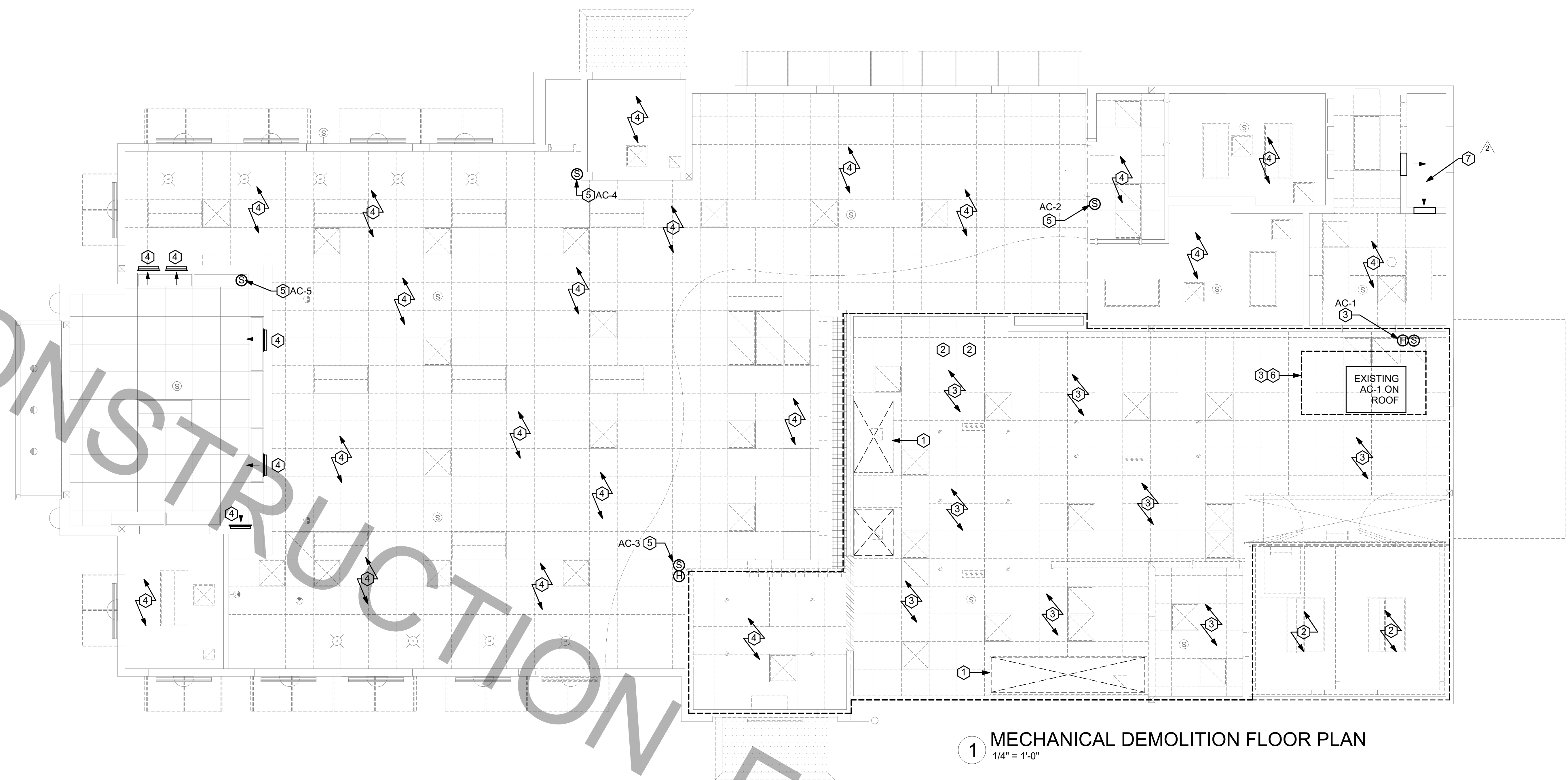
REVISION SCHEDULE
NO. DATE DESCRIPTION
3 11-30-2023 BID ADD 1

CONSULTANT PROJECT # C291118
PRINTED FOR: BID
DATE 12/07/2023
DRAWN BY JRH

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SHEET HOOD DETAILS AND SCHEDULES
SHEET NUMBER

M-301

FOR CONSTRUCTION



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

MECHANICAL GENERAL NOTES:	KEY NOTES:
<p>1. ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.</p> <p>2. ALL DIMENSIONS, CLEARANCES AND TOLERANCES SHALL BE VERIFIED PRIOR TO INSTALLATION.</p> <p>3. ALL MATERIALS, FIXTURES AND EQUIPMENT USED SHALL BE IN ACCORDANCE WITH CHICK-FIL-A SPECIFICATIONS. SPECIFICATIONS ARE CONTAINED WITHIN THESE DRAWINGS AND THE CHICK-FIL-A PROJECT MANUAL. ANY CONTRACTOR IN NEED OF A COPY OF THE CHICK-FIL-A PROJECT MANUAL SHALL CONTACT THE CHICK-FIL-A AREA CONSTRUCTION MANAGER. ANY VARIANCE FROM THE CHICK-FIL-A SPECIFICATIONS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER-OF-RECORD.</p> <p>4. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ITS LISTING AND/OR THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.</p> <p>5. SEE COORDINATION SCHEDULE FOR ADDITIONAL SCOPE OF WORK.</p>	<p>① CONTRACTOR SHALL DEMO/REMOVE AND DISCARD EXHAUST HOOD AND ANSUL FIRE SUPPRESSION. CONTRACTOR SHALL DEMO/REMOVE AND DISCARD INSULATED EXHAUST DUCT UP TO EXISTING EXHAUST FAN LOCATED ON ROOF.</p> <p>② CONTRACTOR SHALL DEMO/REMOVE AND DISCARD REFRIGERANT PIPING FROM ALL EXISTING COOLER/FREEZER SPLIT SYSTEM CEILING CASSETTE AND ICE MACHINE EQUIPMENT BACK TO REMOTE CONDENSER LOCATED ON ROOF. REFRIGERANTS THAT ARE RECOVERED FROM REFRIGERANT AND AIR-CONDITIONING SYSTEMS SHALL NOT BE REUSED OTHER THAN IN THE SYSTEM FROM WHICH THEY WERE RECOVERED AND IN OTHER SYSTEMS OF THE SAME OWNER. RECOVERED REFRIGERANTS SHALL BE FILTERED AND DRIED BEFORE REUSE. RECOVERED REFRIGERANTS THAT SHOW CLEAR SIGNS OF CONTAMINATION SHALL NOT BE REUSED UNLESS RECLAIMED IN ACCORDANCE WITH SECTION 1102.2.2 OF THE FBC-M 2020.</p> <p>③ CONTRACTOR SHALL DEMO/REMOVE AND DISCARD EXISTING SUPPLY AIR AND RETURN AIR PLENUM, SUPPLY AIR DIFFUSERS, RETURN AIR DIFFUSERS, SUPPLY AIR DUCT, RETURN AIR DUCT, AND ALL HANGERS, STRAPS, ETC., AND ALL OTHER HVAC APPURTENANCES ASSOCIATED WITH KITCHEN AC#1.</p> <p>④ CONTRACTOR TO REMOVE ALL EXISTING SUPPLY AND RETURN GRILLES IN DINING ROOM/VESTIBULE AREAS AS NOTED. EXISTING SUPPLY AND RETURN DUCTWORK TO REMAIN FOR RECONNECTION TO NEW SUPPLY AND RETURN GRILLES DURING RENOVATION.</p> <p>⑤ EXISTING SENSORS TO BE REMOVED FOR RENOVATION AND RELOCATED.</p> <p>⑥ CONTRACTOR TO DEMO/REMOVE EXISTING AIR DROPS, HANGERS, ALL APPURTENANCES AND WIRING BACK TO SOURCE.</p> <p>⑦ CONTRACTOR TO REMOVE ALL EXISTING SUPPLY AND RETURN GRILLES IN THE MECHANICAL ROOM AS NOTED. EXISTING SUPPLY AND RETURN DUCTWORK MAY NEED TO BE RECONFIGURED FOR RENOVATION. REFER TO SHEET M-201 FOR INFORMATION.</p>



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Licenses:
Eng. C.O.A. No. 3215
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Landscape Lic. No. LC0000298



**CHICK-FIL-A
BEACH & HODGES**
13672 BEACH BLVD.
JACKSONVILLE, FL 32224-1206

FSU#02251
BUILDING TYPE / SIZE: S06-C LRG
RELEASE:

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
2	10/31/2023	PERMIT REV 2

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SHEET
MECHANICAL
DEMOLITION FLOOR PLAN
SHEET NUMBER

M-102

8 7 6 5 4 3 2 1

E
D
C
B
A



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

MECHANICAL GENERAL NOTES:

1. ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
2. ALL DIMENSIONS, CLEARANCES AND TOLERANCES SHALL BE VERIFIED PRIOR TO INSTALLATION.
3. 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.
4. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ITS LISTING AND/OR THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
5. SEE COORDINATION SCHEDULE FOR ADDITIONAL SCOPE OF WORK.

KEY NOTES:

- 1 EXISTING EQUIPMENT TO REMAIN.
- 2 CONTRACTOR SHALL DEMO/REMOVE REMOTE CONDENSING UNITS AND REFRIGERANT PIPING DOWN TO EQUIPMENT BELOW. REFRIGERANT PIPE GOOSENECK IS EXISTING TO REMAIN FOR RE-USE IN RENOVATION PHASE. REFRIGERANTS THAT ARE RECOVERED FROM REFRIGERANT AND AIR-CONDITIONING SYSTEMS SHALL NOT BE REUSED OTHER THAN IN THE SYSTEM FROM WHICH THEY WERE RECOVERED AND IN OTHER SYSTEMS OF THE SAME OWNER. RECOVERED REFRIGERANTS SHALL BE FILTERED AND DRIED BEFORE REUSE. RECOVERED REFRIGERANTS THAT SHOW CLEAR SIGNS OF CONTAMINATION SHALL NOT BE REUSED UNLESS RECLAIMED IN ACCORDANCE WITH SECTION 1102.2.2 OF THE IBC-M 2021.
- 3 CONTRACTOR SHALL DEMO/REMOVE AND DISCARD KITCHEN AC-1 AND ROOF CURB AS REQUIRED.
- 4 DEMO/REMOVE EXHAUST FAN AND ROOF CURB. COORDINATE NEW EXHAUST FAN LOCATION WITH M-250.
- 5 NOTE NOT USED.
- 6 CONTRACTOR SHALL DEMO/REMOVE REMOTE CONDENSING UNIT, RACK STAND AND REFRIGERANT PIPING ROUTED TO EQUIPMENT BELOW. REFRIGERANTS THAT ARE RECOVERED FROM REFRIGERANT AND AIR-CONDITIONING SYSTEMS SHALL NOT BE REUSED OTHER THAN IN THE SYSTEM FROM WHICH THEY WERE RECOVERED AND IN OTHER SYSTEMS OF THE SAME OWNER. RECOVERED REFRIGERANTS SHALL BE FILTERED AND DRIED BEFORE REUSE. RECOVERED REFRIGERANTS THAT SHOW CLEAR SIGNS OF CONTAMINATION SHALL NOT BE REUSED UNLESS RECLAIMED IN ACCORDANCE WITH SECTION 1102.2.2 OF THE IBC-M 2021.
- 7 REMOVE EXISTING EXHAUST FAN AND CURB. OPENING TO REMAIN FOR REPLACEMENT FAN TO BE INSTALLED IN SAME LOCATION.

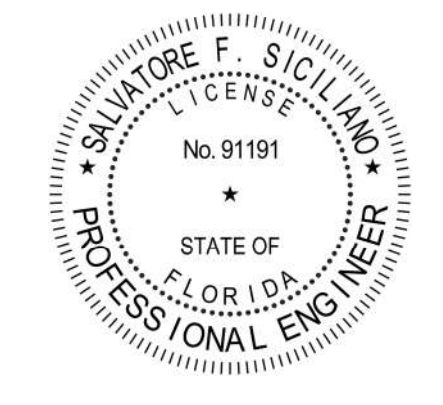
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30-02251-M-101-MECHANICAL DEMOLITION ROOF PLAN



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**CHICK-FIL-A
BEACH & HODGES**
13672 BEACH BLVD.
JACKSONVILLE, FL 32224-1206

FSU#02251
BUILDING TYPE / SIZE: S06-C LRG
RELEASE:

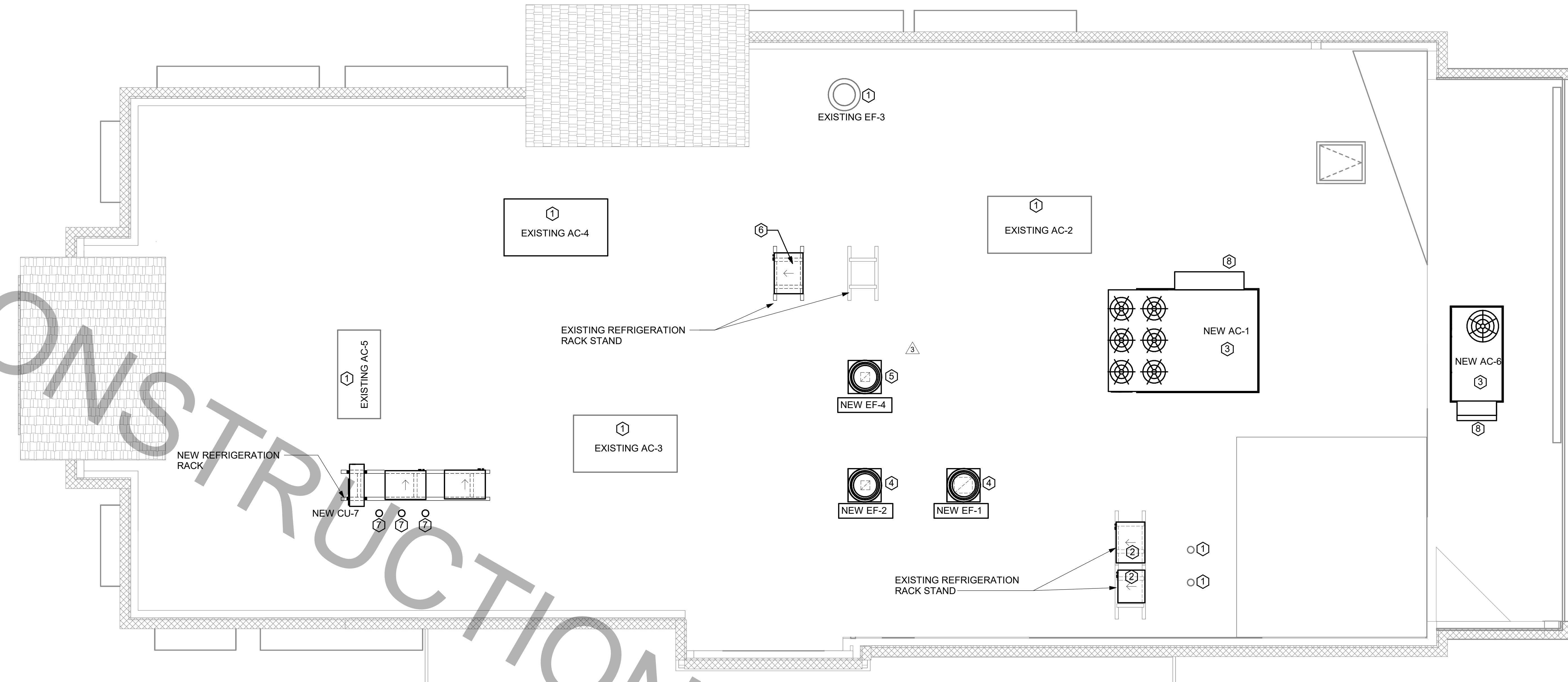
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NO.	DATE	DESCRIPTION

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SHEET
MECHANICAL
DEMOLITION ROOF PLAN
SHEET NUMBER

M-101

FOR CONSTRUCTION



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

- MECHANICAL GENERAL NOTES:**
1. ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
 2. ALL DIMENSIONS, CLEARANCES AND TOLERANCES SHALL BE VERIFIED PRIOR TO INSTALLATION.
 3. 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.
 4. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ITS LISTING AND/OR THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 5. SEE COORDINATION SCHEDULE FOR ADDITIONAL SCOPE OF WORK.
 6. 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.

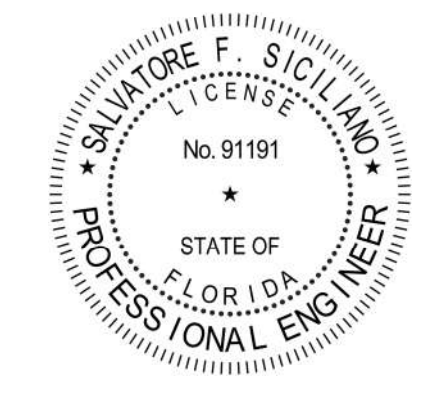
- KEY NOTES:**
1. EXISTING EQUIPMENT TO REMAIN.
 2. CONTRACTOR TO INSTALL NEW FREEZER/COOLER CONDENSING UNIT ON EXISTING RACK STAND. ROUTE NEW INSULATED REFRIGERANT PIPING DOWN THROUGH EXISTING REFRIGERANT GOOSENECK TO NEW FREEZER/COOLER EVAPORATOR BELOW.
 3. CONTRACTOR SHALL INSTALL NEW LENNOX AC-1 AND AC-6 WITH NEW ROOF CURB. CONTRACTOR SHALL COORDINATE ROOF PENETRATION OPENINGS. REFER TO RTU SCHEDULE FOR FURTHER INFORMATION.
 4. CONTRACTOR SHALL INSTALL NEW GREASE EXHAUST FAN PER EXHAUST FAN SCHEDULE ON MECHANICAL SHEET M-402. ENSURE THAT NEW EXHAUST FAN IS INSTALLED A MINIMUM 10'-0" FROM ALL AIR INTAKE OPENINGS. PROVIDE NEW CURB.
 5. CONTRACTOR SHALL INSTALL NEW GREASE EXHAUST FAN PER EXHAUST FAN SCHEDULE ON MECHANICAL SHEET M-301 THRU EXISTING EXHAUST FAN OPENING. PROVIDE NEW CURB IN LOCATION SHOWN.
 6. EXISTING CONDENSING UNIT, EXISTING REFRIGERANT PIPING THROUGH EXISTING REFRIGERANT GOOSENECK TO RELOCATED KITCHEN ICE MAKER ROUTED BELOW. CONTRACTOR TO RECHARGE REFRIGERANT SYSTEM.
 7. INSTALL CONDENSING UNIT. ROUTE NEW REFRIGERANT PIPING DOWN TO DRIVE-THRU SPLIT SYSTEM AIR HANDLER AND ICE MACHINES THROUGH NEW GOOSENECK REFRIGERANT PORTAL. PROVIDE NEW CONDENSING UNIT RACK STAND.
 8. OUTSIDE AIR INTAKE HOOD. ENSURE THAT HOOD INTAKE IS A MINIMUM OF 10'-0" FROM ANY EXHAUST OR PLUMBING VENT DISCHARGE.



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FSU#02251

BUILDING TYPE / SIZE: S06-C LRG
RELEASE:

REVISION SCHEDULE		
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3	11-30-2023	BID ADD 1

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SHEET
MECHANICAL ROOF PLAN

SHEET NUMBER

M-250

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 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 DWG 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 THERMAFLEX 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. RADIUS ELBOWS MAY BE SUBSTITUTED FOR 90 DEGREE ELBOWS AT THE DISCRETION OF THE CONTRACTOR. CENTERLINE RADIUS EQUAL TO: R=W 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 AND SUPPLY 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 PREWIRED 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 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 RETORQUE OF ALL FIELD AND FACTORY HIGH VOLTAGE CONNECTIONS.

3.02 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.

NATIONAL ACCOUNTS	
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 2.03 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.	TPI FAN PACKAGE - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE FAN 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.
9.	MITSUBISHI SPLIT SYSTEM UNIT PACKAGE - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE SPLIT SYSTEM PACKAGE DIRECTLY FROM TRANE/MITSUBISHI COMPANY. CONTACT CFA@TRANE.COM OR CALL 866-9864822. SCOTT ROWLEY/TRANE CAN ALSO BE REACHED DIRECTLY AT 630-200-7155. ONLY WHEN INVENTORY ISSUES PREVENT TIMELY PROCUREMENT OF PRIMARY MITSUBISHI OPTION, SAMSUNG ALTERNATE (AC036BNTDCH/AA / AC036BXADCH/AA) IS INTENDED FOR USE. FOR SAMSUNG, PLEASE CONTACT CHAD FISHER AT 479-621-3020. DUE TO PROCUREMENT SUPPLY ISSUES IN ASHRAE CLIMATE ZONES 0-3, MITSUBISHI (NTXWST36B112AA / NTXST36B112AA) MAY BE USED AS A SECOND ALTERNATIVE @ TRANE CONTACT INFO ABOVE. MINI SPLIT SYSTEMS NOT PURCHASED THRU TRANE/MITSUBISHI COMPANY OR ALTERNATES WILL NOT BE ACCEPTED.



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



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CHICK-FIL-A
BEACH & HODGES
13672 BEACH BLVD.
JACKSONVILLE, FL 32224-1206

FSU#02251

BUILDING TYPE / SIZE: S06-C LRG
RELEASE:

REVISION SCHEDULE
NO. DATE DESCRIPTION

CONSULTANT PROJECT # C291118
PRINTED FOR: BID
DATE 12/07/2023
DRAWN BY JRH

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SHEET
HVAC SPECIFICATIONS

SHEET NUMBER

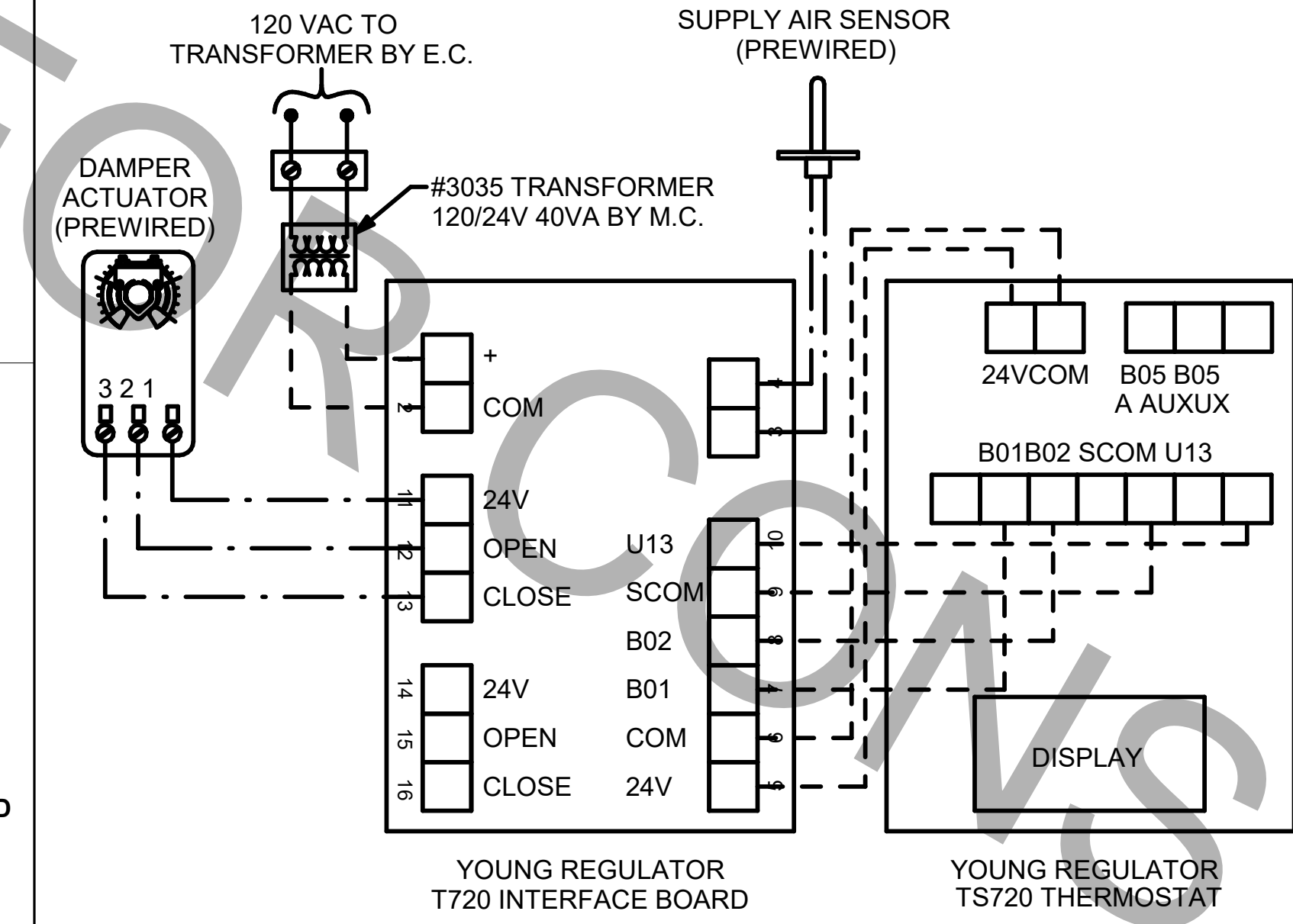
M-901

LEGEND

M.C.	MECHANICAL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
---	18 AWG MIN WIRING BY M.C.
---	HIGH VOLTAGE BY E.C.
---	FACTORY WIRING

- NOTES**
- SEE DWG MS201 FOR COMPONENT MODEL NUMBERS AND ORDERING INFORMATION.
 - 120V POWER FOR TRANSFORMER TO BE NONS SWITCHED AND LIVE 24 HOURS EACH DAY.
 - PROVIDE ALL NECESSARY WIRING AND COMPONENTS TO MAKE CONTROL AND POWER CONNECTIONS TO TRANSFORMER, ZONE DAMPER, AND THERMOSTAT PER MANUFACTURER'S IOM.
 - PROVIDE MYLAR LABEL AT ALL NEW THERMOSTATS WITH 1/4" HIGH WHITE LETTERING ON BLACK BACKGROUND, I.E. "OFFICE THERMOSTAT". PLACE LABELS ON WALL ADJACENT TO DEVICE. DO NOT APPLY DIRECTLY ON DEVICE.

- SEQUENCE OF OPERATION**
- WHEN THE SUPPLY AIR TEMPERATURE IS LESS THAN 72F THE DAMPER WILL MODULATE ON A RISE IN SPACE TEMPERATURE ABOVE THE SETPOINT.
 - WHEN THE SUPPLY AIR TEMPERATURE IS GREATER THAN 71F THE DAMPER WILL MODULATE ON A FALL IN SPACE TEMPERATURE BELOW THE SETPOINT.
 - WHEN SPACE TEMPERATURE FALLS BELOW 68F (ADJ), THE THERMOSTAT SHALL SEND AN ENABLE SIGNAL TO THE EDH. THE EDH SHALL THEN MODULATE CAPACITY TO MAINTAIN AN 80F (ADJ) DISCHARGE AIR SETPOINT.



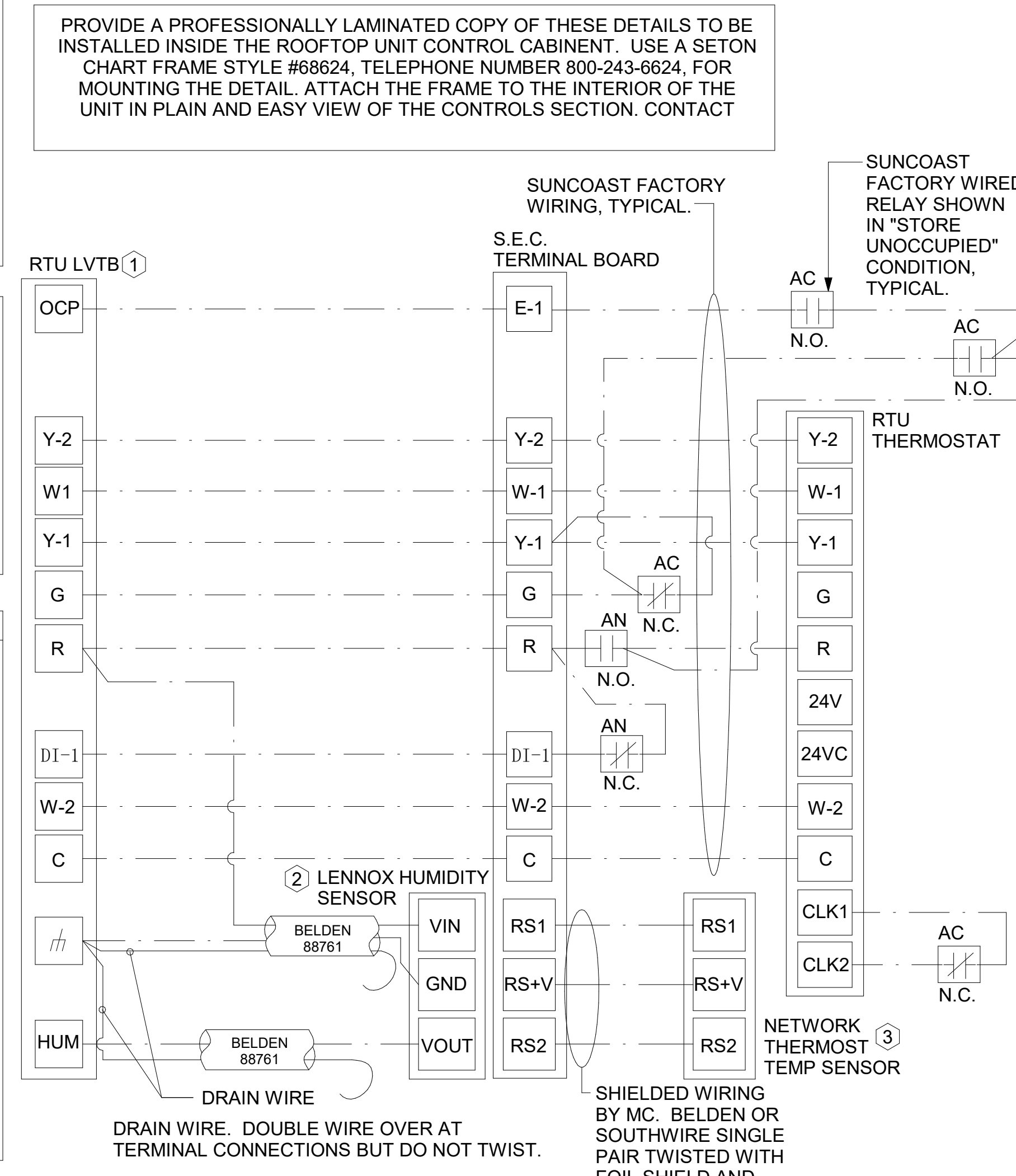
4 DAMPER AND TSTAT - MGRS OFFICE & TEAM MEMBER ROOM
NOT TO SCALE

- NOTES:**
- MECHANICAL CONTRACTOR SHALL MAKE PLASTIC LAMINATE OF THIS DETAIL AND INSTALL PERMANENTLY ON INSIDE DOOR OF ROOFTOP UNIT CONTROL COMPARTMENT.
 - SEE DETAILS 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. "AC-1 HUMIDITY SENSOR" OR "AC-1 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.
 - HUMIDITROL UNITS ONLY: WIRING TO HUMIDITY SENSOR TO BE MADE WITH TWO SEPARATE RUNS OF SHIELDED TWISTED PAIR. TERMINATE SHIELD WIRES AT TB-1, LEAVE OPEN AT SENSOR.
 - NETWORK TSTAT REMOTE TEMP SENSOR PROVIDED BY SUNCOAST AND INSTALLED BY MC. FIELD CALIBRATE EACH SENSOR.

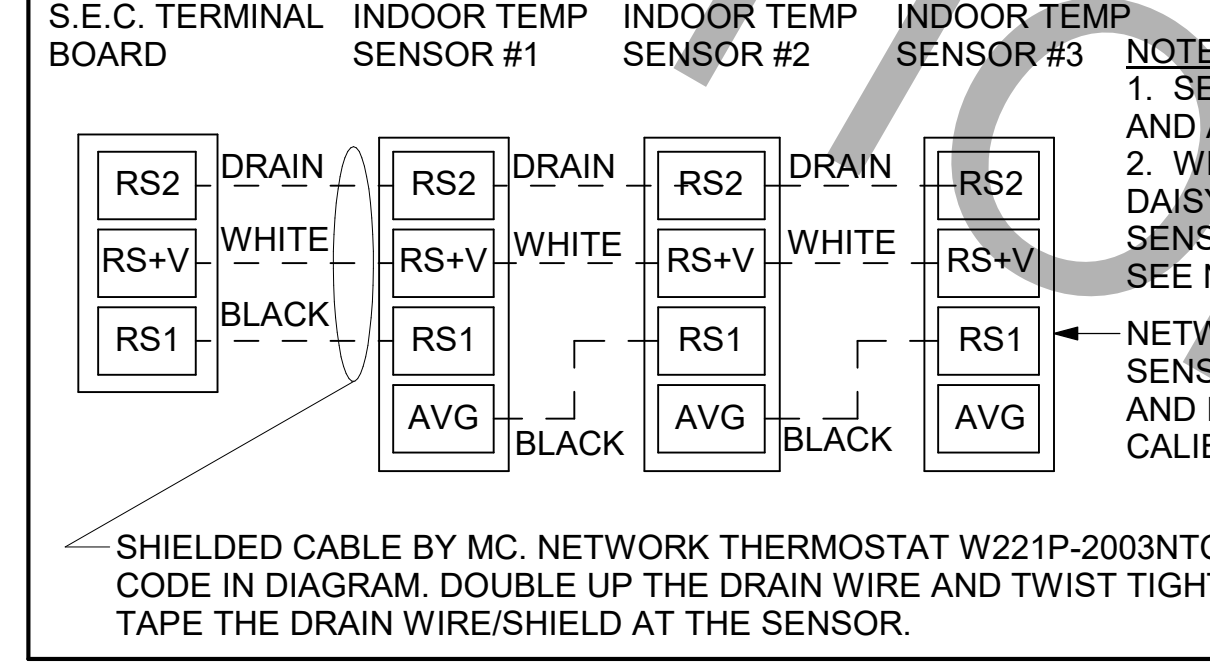
LEGEND

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 ANSUL FIRE SUPPRESSION SYSTEM IS ACTIVATED, AS NOTED.
---	18 AWG MIN LOW VOLTAGE WIRING BY MC, U.N.O. USE BELDEN OR SOUTHWIRE SINGLE PAIR TWISTED WITH FOIL SHIELD AND DRAIN WIRE FOR TEMPERATURE SENSORS (NOT HUMIDITY SENSORS).
---	LOW VOLTAGE WIRING BY S.E.C.
---	LINE VOLTAGE BY ELECTRICIAN OR S.E.C.



2 ROOFTOP UNIT CONTROL WIRING - LENNOX
NOT TO SCALE

AVERAGING SENSORS (WHERE SHOWN ON PLANS)



- NOTES:**
- SEE DWG 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.

SHIELDED CABLE BY MC. NETWORK THERMOSTAT W221P-2003N/CABLE ONLY. WIRE WITH COLOR CODE IN DIAGRAM. DOUBLE UP THE DRAIN WIRE AND TWIST TIGHTLY BEFORE TERMINATION. TAPE THE DRAIN WIRE/SHIELD AT THE SENSOR.

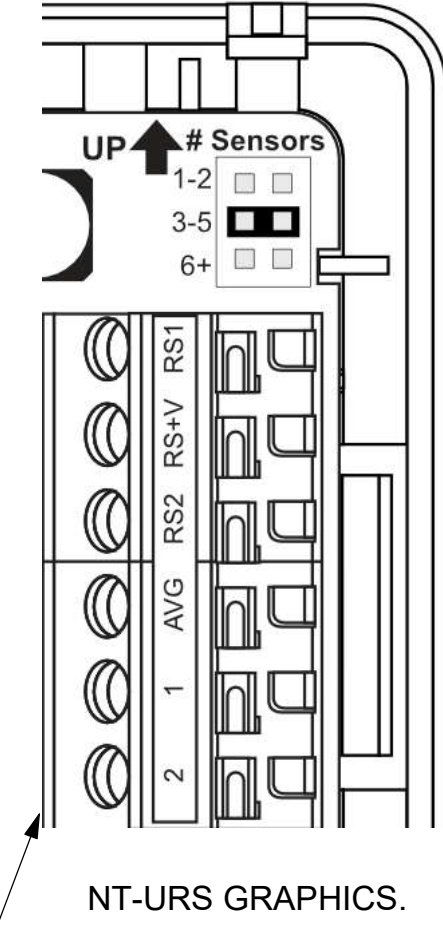
PROVIDE A PROFESSIONALLY LAMINATED COPY OF THESE DETAILS TO BE INSTALLED INSIDE THE ROOFTOP UNIT CONTROL CABINET. USE A SETON CHART FRAME STYLE #68624, TELEPHONE NUMBER 800-243-6824, FOR MOUNTING THE DETAIL. ATTACH THE FRAME TO THE INTERIOR OF THE UNIT IN PLAIN AND EASY VIEW OF THE CONTROLS SECTION. CONTACT

LENNOX PRODIGY CONTROLLER SETTINGS:

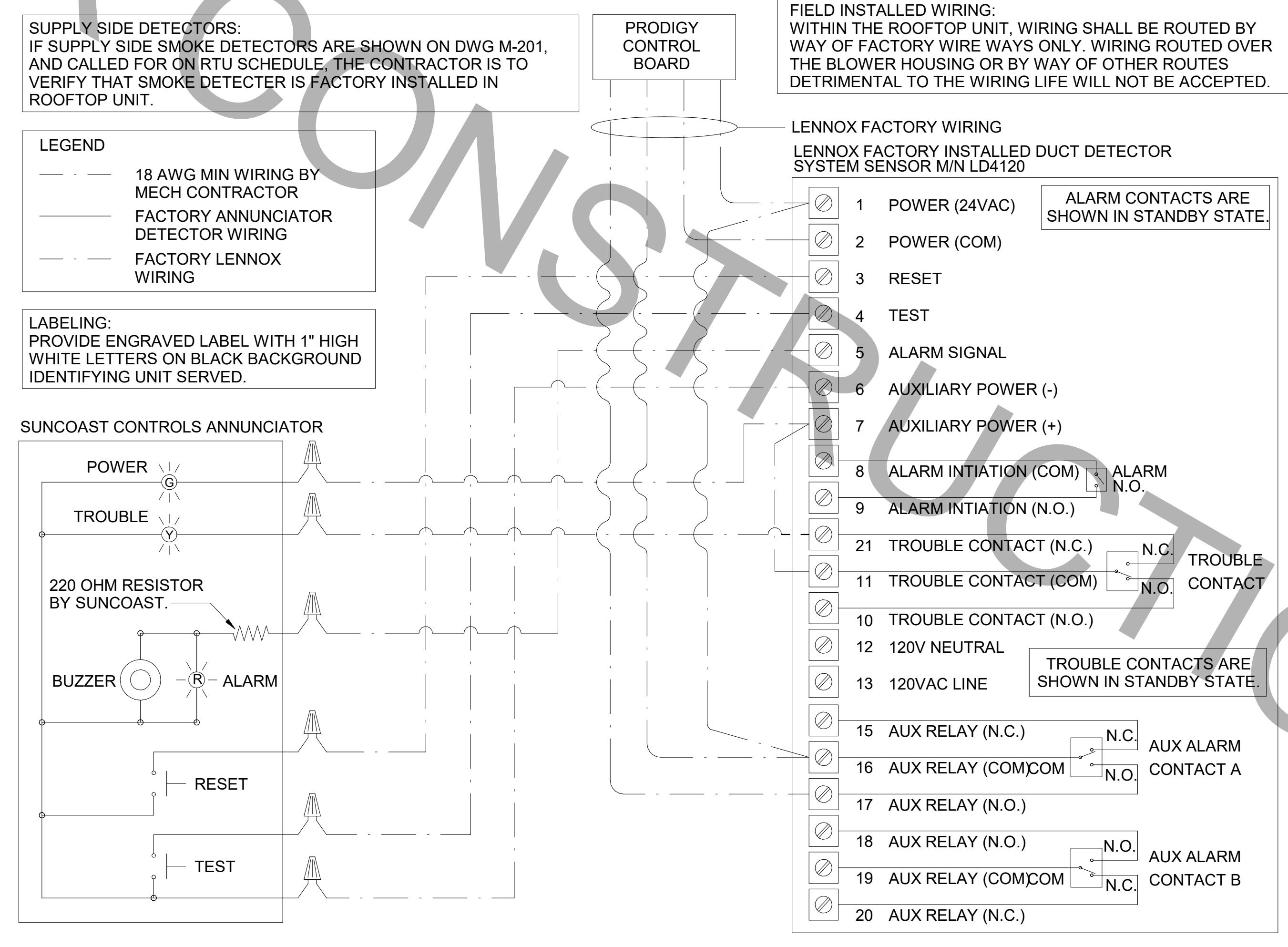
- FOR ALL RTU'S EXCEPT AC#1, ELIMINATE THE MORNING WARMUP/DOSA DAMPER DELAY. THE MENU PATH IS:
 - MAIN MENU > SETTINGS > RTU OPTIONS > EDIT PARAMETERS
 - FOR GAS HEAT UNITS (LGT):
 - CHANGE PARAMETER #65 SETTING TO 1
 - FOR ELECTRIC HEAT UNITS (LCT):
 - CHANGE PARAMETER #58 TO 1
 - ON UNIT AC#1
 - FOR GAS HEAT (LG) LEAVE AT 60-MINUTE DEFAULT
 - FOR ELECTRIC HEAT (LC) CHANGE VALUE TO EQUAL 90-MINUTE
- FOR HUMIDITROL UNITS THE MENU PATH IS:
 - MAIN MENU > SETTINGS > RTU OPTIONS > DEHUMIDIFIER MODE > NO CONDITIONS
 - SELECT LOCAL SENSOR AND SAVE
 - SET POINT: 60% DEHUMID DEADBAND, 2%
 - 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:

- INSTALL FRESH AIR TEMPERING KIT WIRING HARNESS AS RECOMMENDED BY LENNOX.
- 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.
- FOR PRODIGY 2.0: FIRST SET FRESH AIR HEATING ENABLE TO "YES" THRU THE TAB/DAMPER MENU (LEAVE FRESH AIR COOLING AS "NO"). NEXT, CHANGE PRODIGY-M3 BOARD CONTROL PARAMETER #156 TO A VALUE OF 66. THIS WILL PREVENT THE SUPPLY AIR TEMPERATURE FROM DROPPING BELOW 66F DEG DURING HEATING MODE WHEN THERMOSTAT IS NOT ACTIVELY CALLING FOR HEAT.
- CHANGE PRODIGY-M3 BOARD CONTROL PARAMETER #157 TO A VALUE OF 14. THIS WILL MAKE THE DEADBAND VALUE EQUAL 14F.
- CHANGE PRODIGY-M3 BOARD CONTROL PARAMETER #158 TO A VALUE OF 300. THIS WILL MAKE THE CYCLE TIME VALUE EQUAL 5 MINUTES.

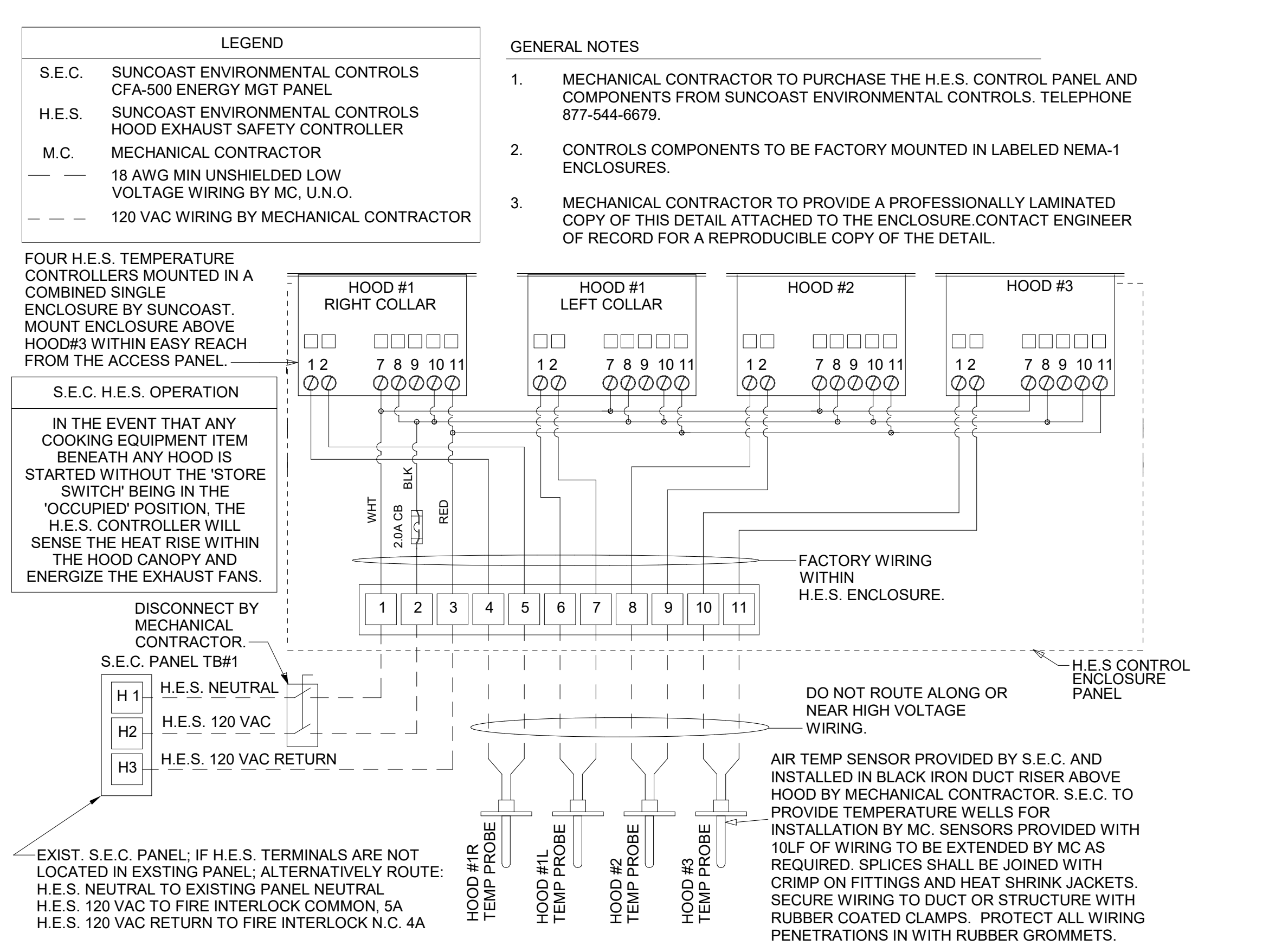


3 HOOD EXHAUST SAFETY SWITCH (H.E.S.S.) WIRING DIAGRAM
NOT TO SCALE



1 SMOKE DETECTOR AND ANNUNCIATOR WIRING DIAGRAM
NOT TO SCALE

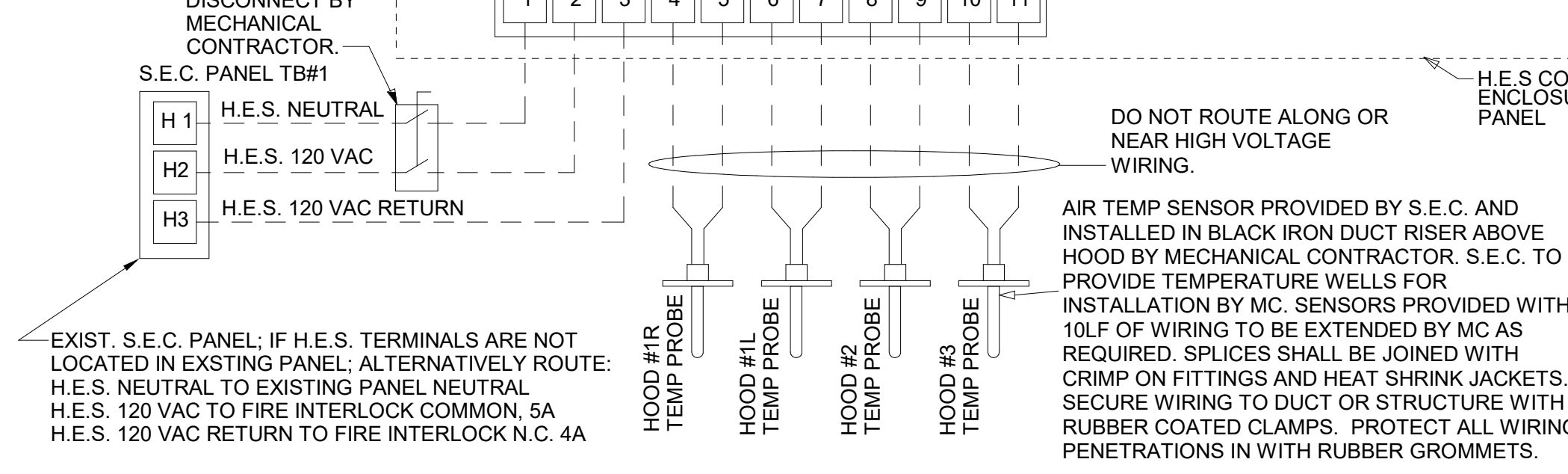
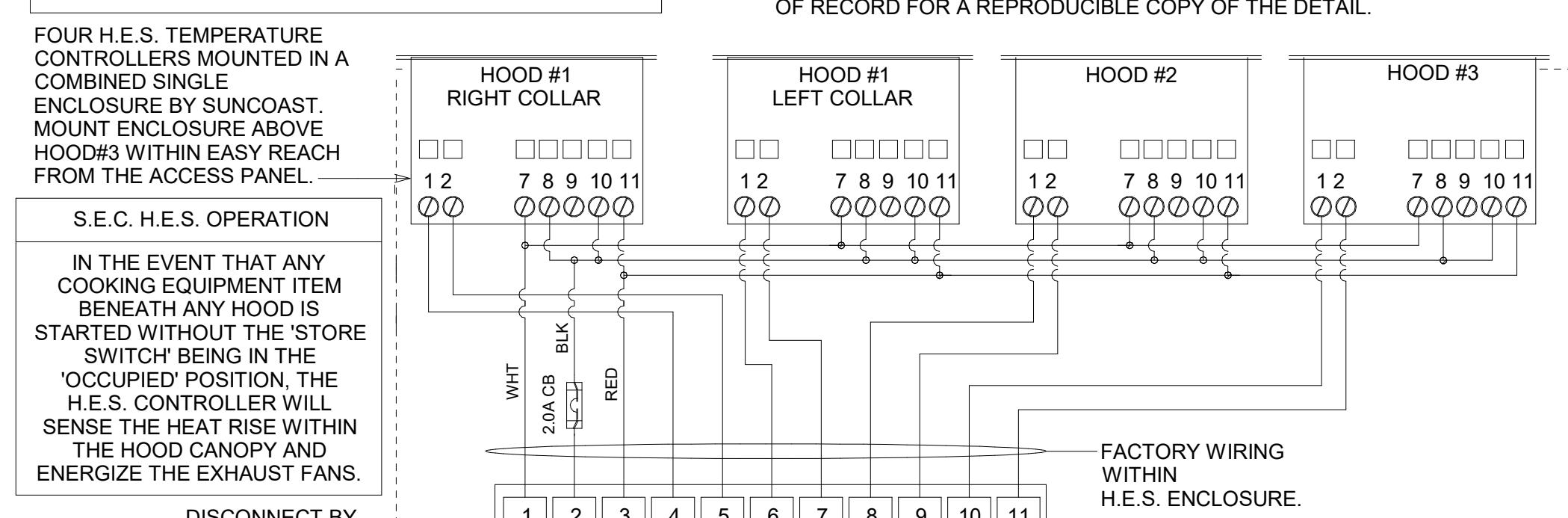
5 AIR DOOR LOW VOLTAGE CONNECTION DIAGRAM
NOT TO SCALE



LEGEND

S.E.C.	SUNCOAST ENVIRONMENTAL CONTROLS CFA-500 ENERGY MGT PANEL
H.E.S.	SUNCOAST ENVIRONMENTAL CONTROLS HOOD EXHAUST SAFETY CONTROLLER
M.C.	MECHANICAL CONTRACTOR
---	18 AWG MIN UNSHIELDED LOW VOLTAGE WIRING BY MC, U.N.O.
---	120 VAC WIRING BY MECHANICAL CONTRACTOR

- GENERAL NOTES**
- MECHANICAL CONTRACTOR TO PURCHASE THE H.E.S. CONTROL PANEL AND COMPONENTS FROM SUNCOAST ENVIRONMENTAL CONTROLS. TELEPHONE 877-544-6679.
 - CONTROLS COMPONENTS TO BE FACTORY MOUNTED IN LABELED NEMA-1 ENCLOSURES.
 - MECHANICAL CONTRACTOR TO PROVIDE A PROFESSIONALLY LAMINATED COPY OF THIS DETAIL ATTACHED TO THE ENCLOSURE CONTACT ENGINEER OF RECORD FOR A REPRODUCIBLE COPY OF THE DETAIL.



Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
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CHICK-FIL-A
BEACH & HODGES
13672 BEACH BLVD.
JACKSONVILLE, FL 32224-1206

FSU#02251

BUILDING TYPE / SIZE: S06-C LRG RELEASE

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
3	11-30-2023	BID ADD 1

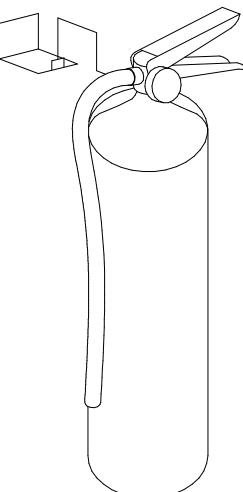


CONSULTANT PROJECT # C291118
PRINTED FOR BID
DATE 12/07/2023
DRAWN BY JRH
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SHEET HVAC CONTROLS
SHEET NUMBER

M-501

FOR CONSTRUCTION

ANSUL



FIRE EXTINGUISHER

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

FUSIBLE LINK RATINGS

ITEM TEMP

OPEN FRYERS 450°

2 BURNER / FLAT TOP 450°

PRESSURE FRYERS 450°

GRILL 450°

EXHAUST COLLARS 450°

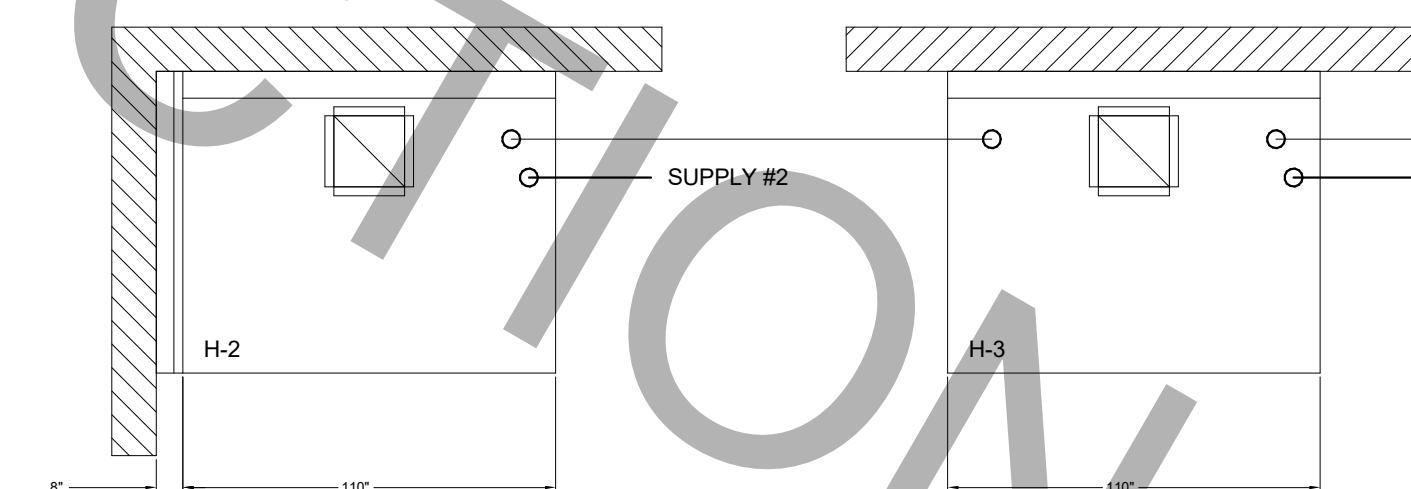
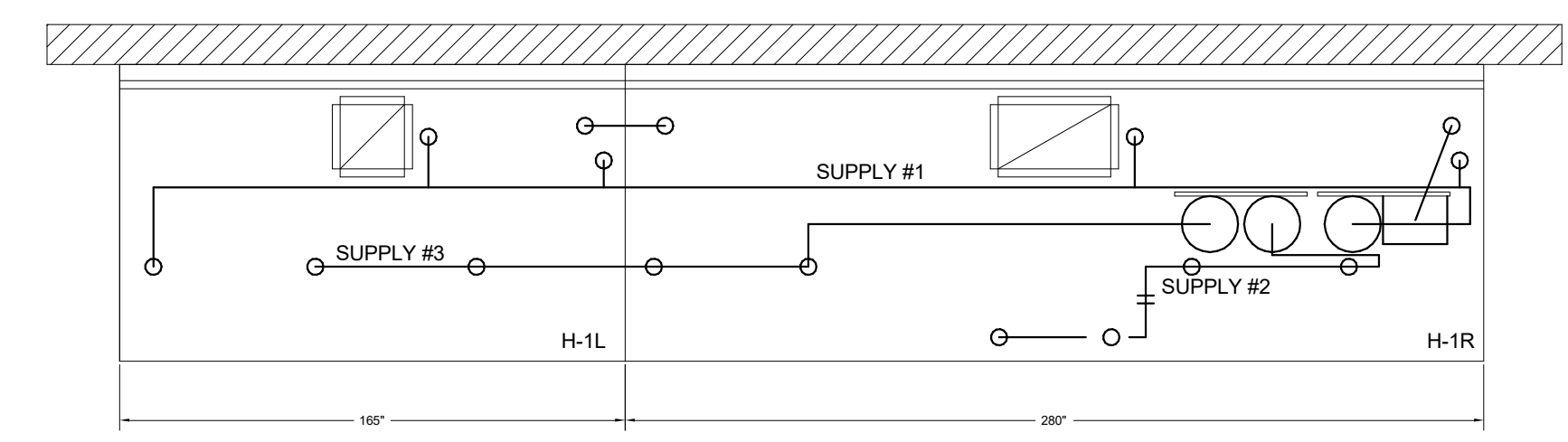
ANSUL R-102 FIRE SYSTEM NOTES
 THREE TANK SYSTEM MOUNTED ON TOP OF (H-1R)
 MAXIMUM FLOW POINTS = 33

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	10333	5	3 GALLON TANKS	
#204	10044	1	SINGLE TANK ENCLOSURE	
#205	10047	1	DOUBLE TANK ENCLOSURE	
#206	10040	2	REMOTE PULL STATION	
#207	10064	2	SINGLE TANK NITROGEN CARTRIDGE	
#208	10065	2	DOUBLE TANK NITROGEN CARTRIDGE	
#209	11128	5	3 GALLON ANSULEX CONTAINER	

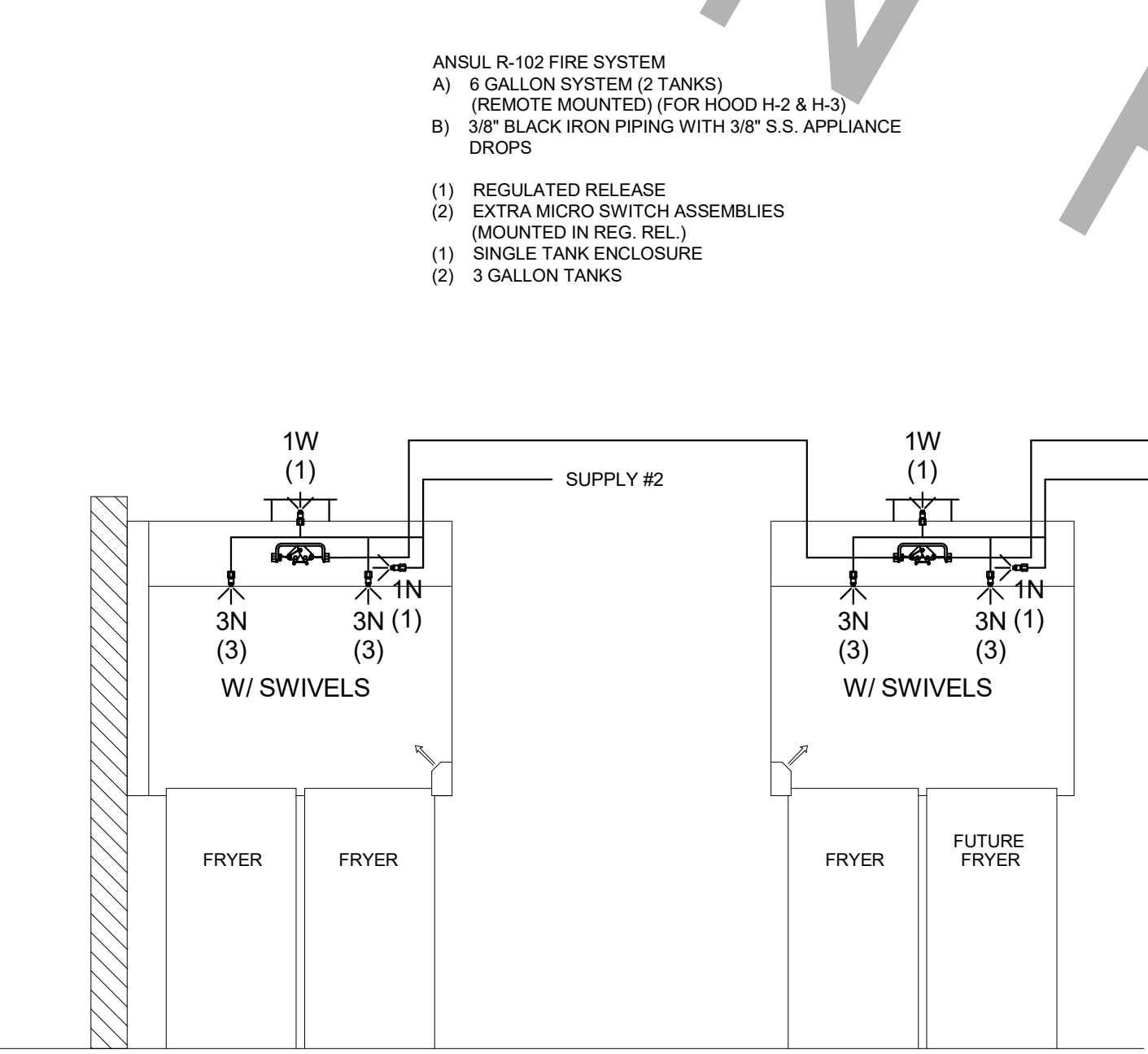
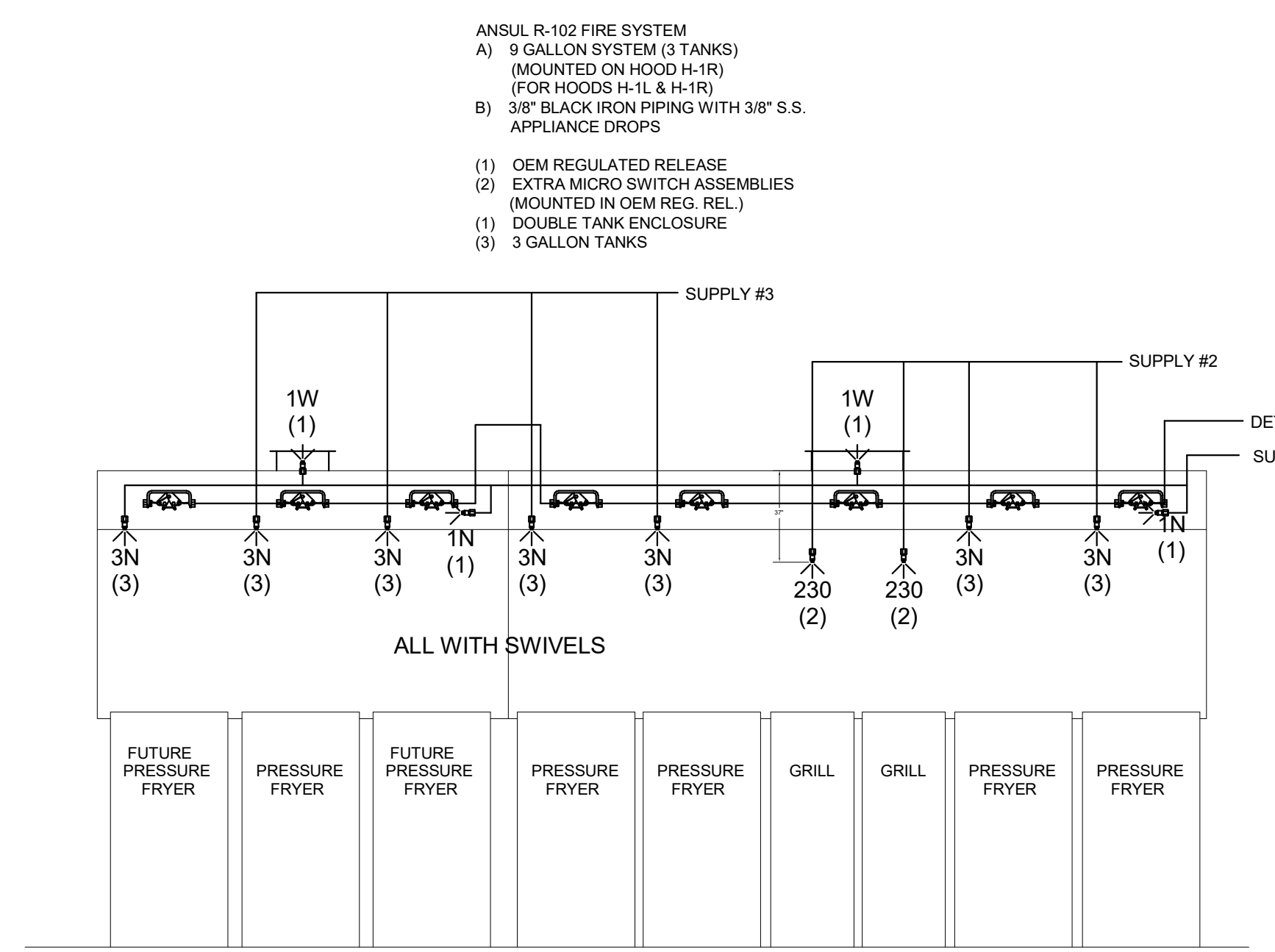
ANSUL R-102 FIRE SYSTEM
 UL LISTED PER STD LATEST STD 300

- 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



****PROTECTS HOODS H-2 & H-3****

REMOTE MOUNTED:
 (1) REGULATED RELEASE (WITH ONE TANK)
 (1) SINGLE TANK ENCLOSURE (WITH ONE TANK)



ANSUL R-102 FIRE SYSTEM LAYOUT

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:
 1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS
 2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.
 NOTE TO APPROVER:
 ANY CHANGES IN COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT CHANGES OCCURRING A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.



WEBSITE: www.halton.com

MAIL-APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

<p>HALTON CO. (USA) 107 INDUSTRIAL DRIVE SCOTTSVILLE, KY 40459 1-270-237-5500</p>	<p>DATE: _____</p> <p>BY: _____</p>
--	-------------------------------------

REV	DESCRIPTION	DATE

PROJECT: CHICK-FIL-A #2251
 BEACH & HODGES

LOCATION: JACKSONVILLE, FL

DRAWN BY: SKM DATE: 03/02/23

SCALE: NOT TO SCALE

Halton

DRAWING NO.: U23-211-02

SHEET NO.: H-1.2



Chick-fil-A
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 Atlanta, Georgia
 30349-2998

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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

BEACH & HODGES

13672 BEACH BLVD.
 JACKSONVILLE, FL 32224-1206

FSU#02251

BUILDING TYPE / SIZE: S06-C LRG

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # C291118

PRINTED FOR: _____ BID

DATE: 12/07/2023

DRAWN BY: JRH

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SHEET: HALTON HOOD SHOP DRAWING

SHEET NUMBER: MH-102