



Chick-fil-A

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



www.cphcorp.com

A Full Service  
A & E Firm

Plans Prepared By

CPH Design, LLC

500 West Fulton Street  
Sanford, FL 32771

State of Ohio Licenses:

Architectural Corp. No. 23314630

Engineering Corp. No. 06814

Seal:

Name  
License No.:

**CHICK-FIL-A**  
**DEERFIELD CROSSING**  
5150 MERTEN DR  
MASON, OH 45040

**SRI#02486**

BUILDING TYPE / SIZE: SRI S06 C-R

RELEASE: 22-12

PRINTED FOR

CONST

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	11/20/24	PERMIT SET
1	01/03/25	PERMIT REV 1
	01/03/25	BID SET
	04/14/25	CONST SET

CONSULTANT PROJECT # C291145

DATE 11/20/2024

DRAWN BY JRH

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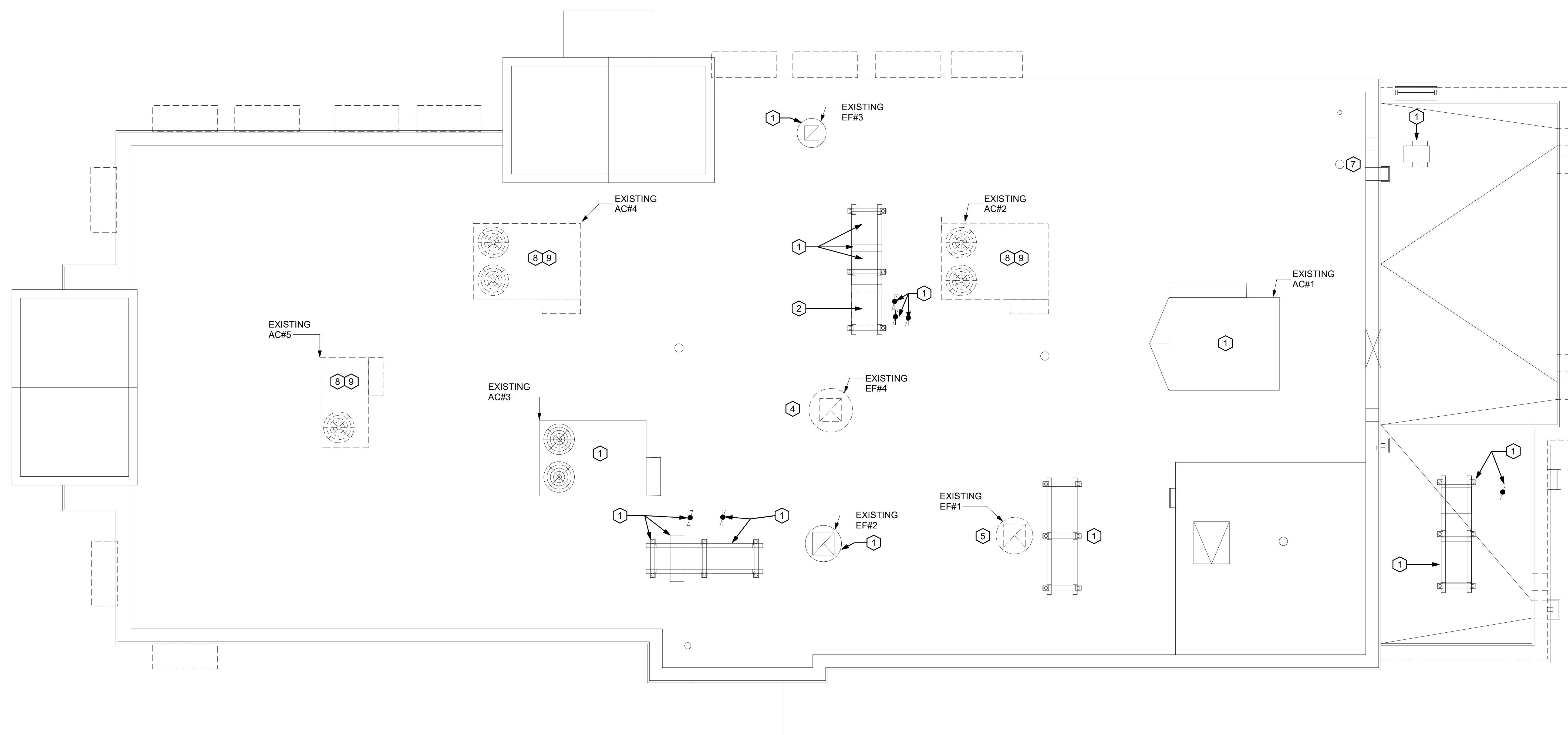
SHEET

MECHANICAL

DEMOLITION ROOF PLAN

SHEET NUMBER

M-101



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

CODE IDENTIFICATION

BUILDING CODE: 2024 OHIO BUILDING CODE (OBC)  
 MECHANICAL CODE: 2024 OHIO MECHANICAL CODE (OMC)  
 ENERGY CODE: 2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)

NOTE:

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

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.

KEY NOTES:

- EXISTING EQUIPMENT TO REMAIN.
- CONTRACTOR SHALL DEMO/REMOVE REMOTE CONDENSING UNIT AND REFRIGERANT PIPING DOWN TO EQUIPMENT BELOW. REFRIGERANT PIPE GOOSENECK AND RACKSTAND ARE EXISTING TO REMAIN FOR RE-USE IN THE 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 1102.2.2.3 OF THE 2024 OHIO MECHANICAL CODE (OMC).
- NOTE NOT USED.
- REMOVE EXISTING EXHAUST FAN AND CURB. OPENING TO REMAIN FOR REPLACEMENT FAN TO BE INSTALLED IN SAME LOCATION.
- DEMO/REMOVE EXHAUST FAN AND ROOF CURB. COORDINATE NEW EXHAUST FAN LOCATION WITH M-250.
- NOTE NOT USED.
- EXISTING COMBUSTION AIR VENT. COORDINATE WITH PLUMBER, FOR DIRECT VENT LOCATION OR RE-USE. IF NOT USED, CAP AND SEAL AIRTIGHT.
- CONTRACTOR SHALL DEMO/REMOVE AND DISCARD EXISTING AC#X AND CURB ADAPTOR. ASSESS FEASIBILITY OF ROOF CURB USE FOR SEISMIC ANCHORAGE AND/OR FUTURE USE. REFER TO M-250 FOR INFORMATION.
- PRIOR TO DEMO/REMOVAL, VERIFY IF OWNER WISHES TO RETAIN RTU FOR FUTURE USE.





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

MECHANICAL GENERAL NOTES:	KEY NOTES:
<ol style="list-style-type: none"> <li>ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.</li> <li>ALL DIMENSIONS, CLEARANCES AND TOLERANCES SHALL BE VERIFIED PRIOR TO INSTALLATION.</li> <li>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.</li> <li>ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ITS LISTING AND/OR THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.</li> <li>SEE COORDINATION SCHEDULE FOR ADDITIONAL SCOPE OF WORK.</li> </ol>	<ol style="list-style-type: none"> <li>CONTRACTOR SHALL DEMO/REMOVE AND DISCARD EXHAUST HOOD AND FIRE SUPPRESSION. CONTRACTOR SHALL DEMO/REMOVE AND DISCARD INSULATED EXHAUST DUCT UP TO EXISTING EXHAUST FAN LOCATED ON ROOF. CONTRACTOR SHALL RETAIN REMOTE PULL STATION FOR RELOCATION DURING NEW WORK PHASE.</li> <li>NOTE NOT USED.</li> <li>NOTE NOT USED.</li> <li>CONTRACTOR TO REMOVE ALL EXISTING SUPPLY AND RETURN GRILLES AS NOTED. EXISTING SUPPLY AND RETURN DUCTWORK TO REMAIN FOR RECONNECTION TO NEW SUPPLY AND RETURN GRILLES DURING RENOVATION.</li> <li>EXISTING SENSORS TO BE REMOVED FOR RENOVATION. REFER TO SHEET M-201 FOR SENSOR RELOCATION OR REPLACEMENT INFORMATION.</li> <li>NOTE NOT USED.</li> </ol>



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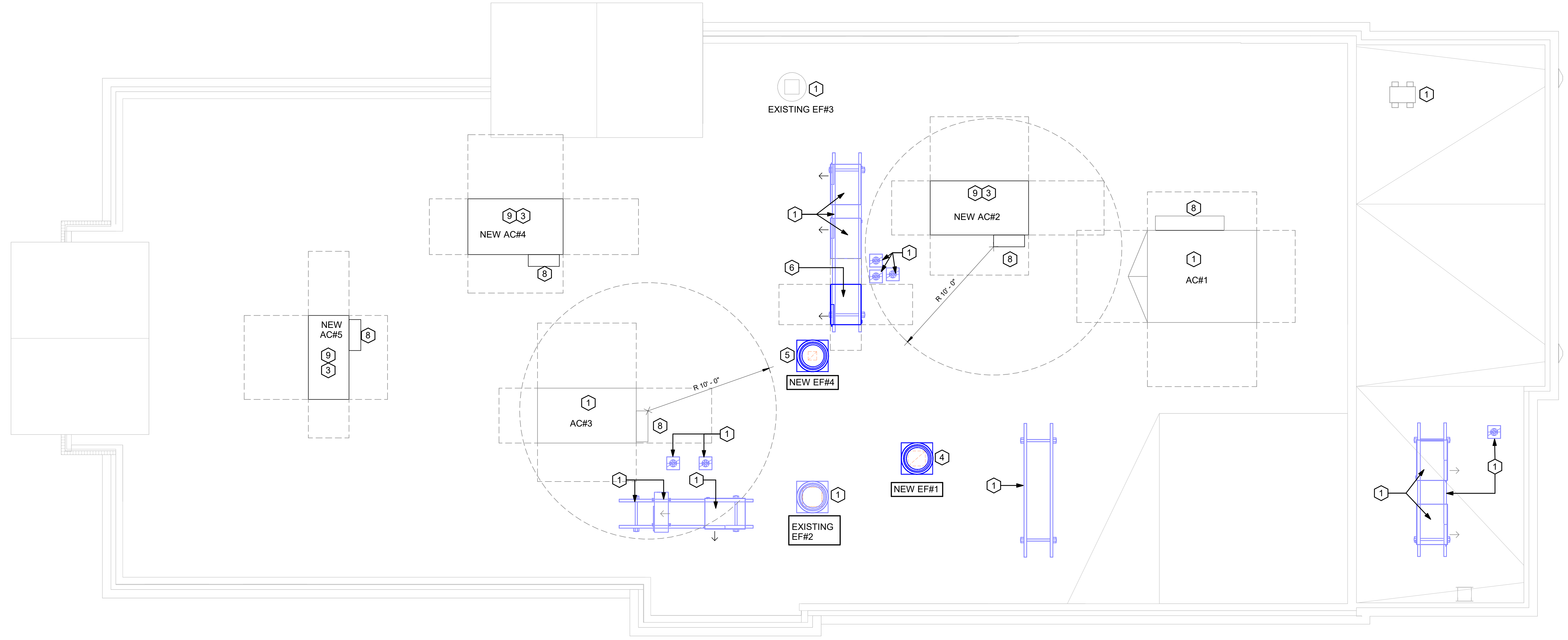
**For Construction -**

CONSULTANT PROJECT #	C291145
DATE	11/20/2024
DRAWN BY	JRH

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**MECHANICAL  
DEMOLITION FLOOR  
PLAN**  
SHEET NUMBER

**M-102**



**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 NOTE NOT USED.
- 3 CONTRACTOR SHALL INSTALL NEW LENNOX AC#2, AC#4 AND AC#5 AND 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 AND PARAPET. PROVIDE NEW CURB.
- 5 CONTRACTOR SHALL INSTALL NEW GREASE EXHAUST FAN PER EXHAUST FAN SCHEDULE ON MECHANICAL SHEET M-402 THRU EXISTING EXHAUST FAN OPENING. PROVIDE NEW CURB IN LOCATION SHOWN.
- 6 CONTRACTOR TO INSTALL NEW CONDENSING UNITS FOR NEW KITCHEN ICE MACHINE. CONNECT NEW REFRIGERANT PIPING THROUGH EXISTING REFRIGERANT GOOSENECK TO RELOCATED KITCHEN ICE MAKER AND SPLIT SYSTEM ROUTED BELOW. CONTRACTOR TO RECHARGE REFRIGERANT SYSTEM. REFER TO KEY NOTE #2 ON SHEET M-101.
- 7 NOTE NOT USED.
- 8 OUTSIDE AIR INTAKE HOOD. ENSURE THAT HOOD INTAKE IS A MINIMUM OF 10'-0" FROM ANY EXHAUST OR PLUMBING VENT DISCHARGE.
- 9 NEW AC#X: ANCHOR EXISTING CURB TO ROOF DECK, IF NECESSARY PROVIDE NEW CURB. REFER TO STRUCTURAL FOR ROOF DECK ANCHORAGE AND M-401. CURB ADAPTERS ARE ACCEPTABLE, PROVIDED THAT IF EXISTING CURBS ARE UTILIZED, THEY ARE IN SATISFACTORY CONDITION AND BE PROVIDED WITH SEISMIC ANCHORING. CURB ADAPTERS SHOULD BE ANCHORED ALSO FOR SEISMIC CONDITIONS, COORDINATE WITH RTU MANUFACTURER AND REFER TO MECHANICAL AND STRUCTURAL DETAILS FOR SAME.  
2. IF EXISTING RTUS ARE PROVIDED WITH EXISTING LENNOX HUMIDITROL CONTROLS, OR SIMILAR, THEN HUMIDITY SENSORS SHOULD BE PROVIDED. CONSULT WITH RTU MANUFACTURER FOR DETAILS.



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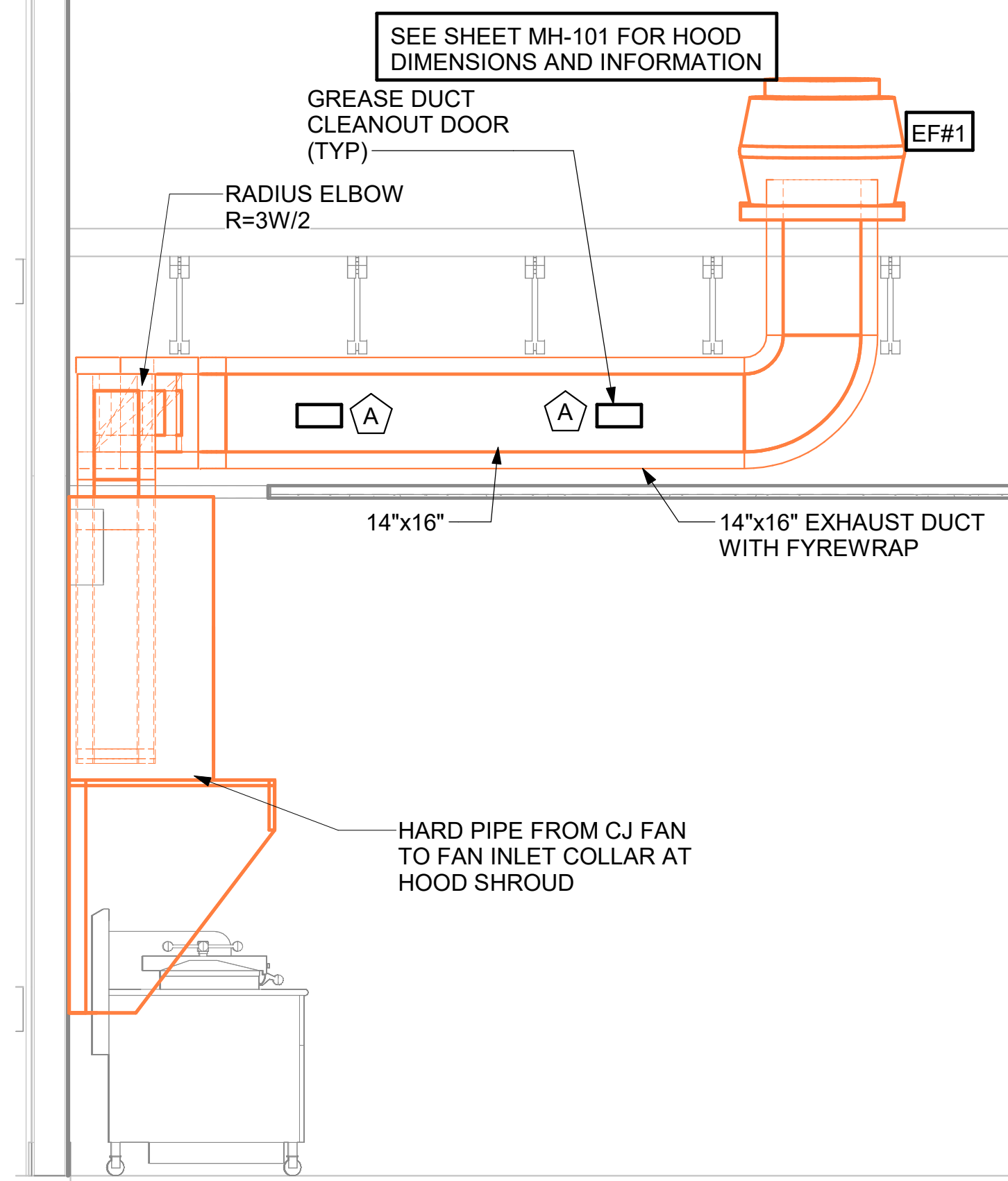
CONSULTANT PROJECT # C291145  
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**MECHANICAL ROOF PLAN**

SHEET NUMBER

**M-250**



### 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 SYSTEM FURNISHED BY HALTON. THE HOOD SHALL BE FURNISHED PRE-PIPED BY HALTON.
- THE FIRE SUPPRESSION SYSTEM EXTERNAL TO THE HOODS SHALL BE INSTALLED IN ACCORDANCE WITH HOOD MANUFACTURER'S SHOP DRAWINGS BY AN AUTHORIZED SYSTEM INSTALLER HIRED BY HALTON.
- HOOD EXHAUST DUCTWORK SHALL BE 16 GA. BLACK STEEL WITH CONTINUOUS LIQUID TIGHT WELD OF JOINTS & SEAMS.
- URNS 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 FyreWRAP. INSULATION ON ACCESS DOORS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTALLATION RECOMMENDATIONS. UNIFRAX FyreWRAP 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.

### 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.

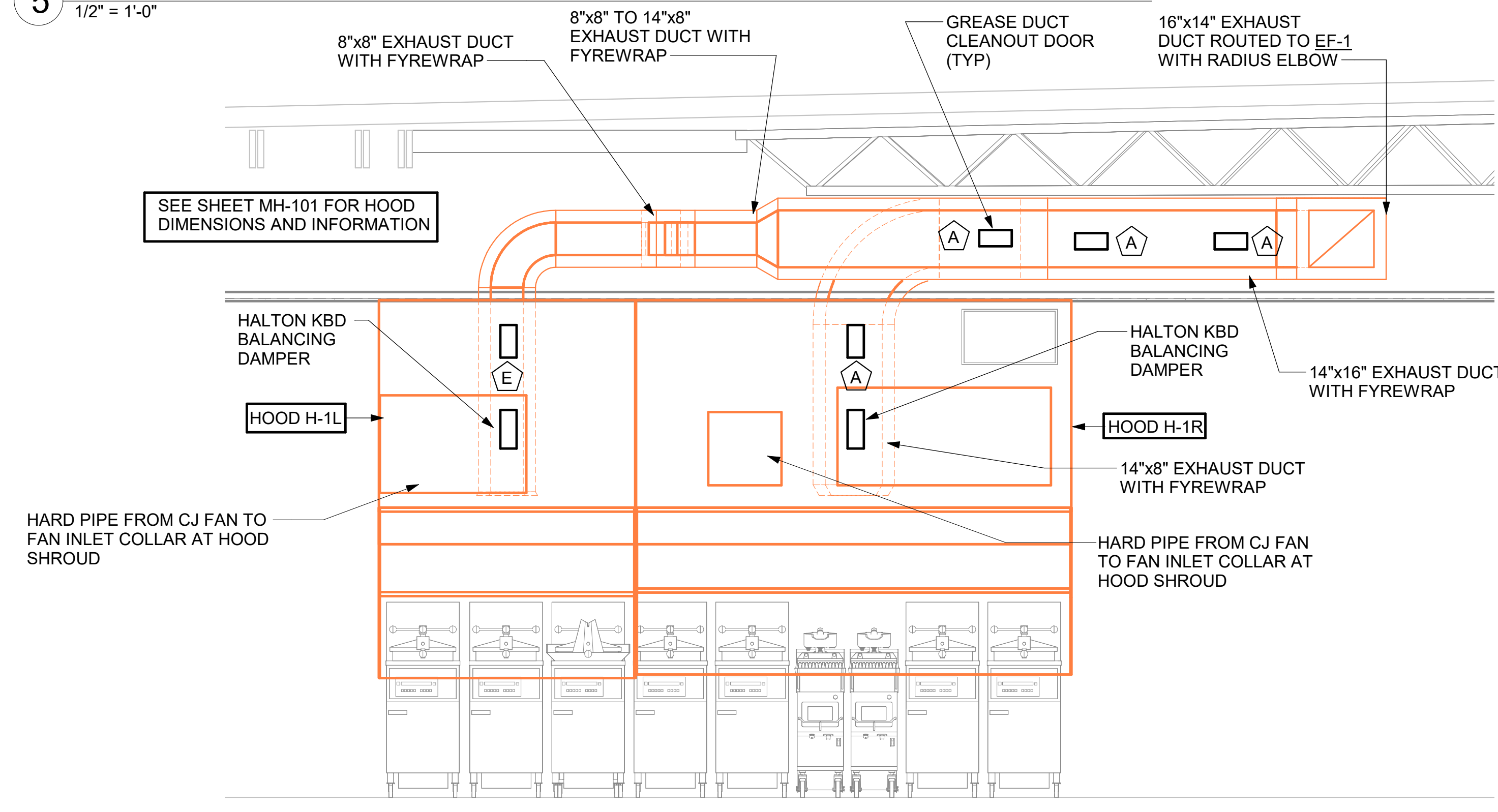
### HOOD COMBUSTIBLE CLEARANCE NOTE

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.

### 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

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



### HOOD SCHEDULE

MARK	EXHAUST CFM	SP @ TAB PORT	CAPTURE JET CFM & S.P.	TYPE	COLLAR SIZE	WIDTH	DEPTH	HEIGHT	MANUFACTURER	MODEL	REMARKS
HOOD H-1R	1204	0.13	80 @ 0.30"	BACK-SHELF	14"x8"	107	37	38	HALTON	KVL-2-IC	1,2,3,4,5,7,8,9,12,17,21,23
HOOD H-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
HOOD H-2	EXISTING	EXISTING	EXISTING	EXISTING	---	---	---	---	EXISTING	EXISTING	EXISTING
HOOD H-3	701	0.30	30 @ 0.29"	BACK-SHELF	8"x8"	42	34	38	HALTON	KVL-C-IC	1,2,3,6,7,8,9,11,13,16,21

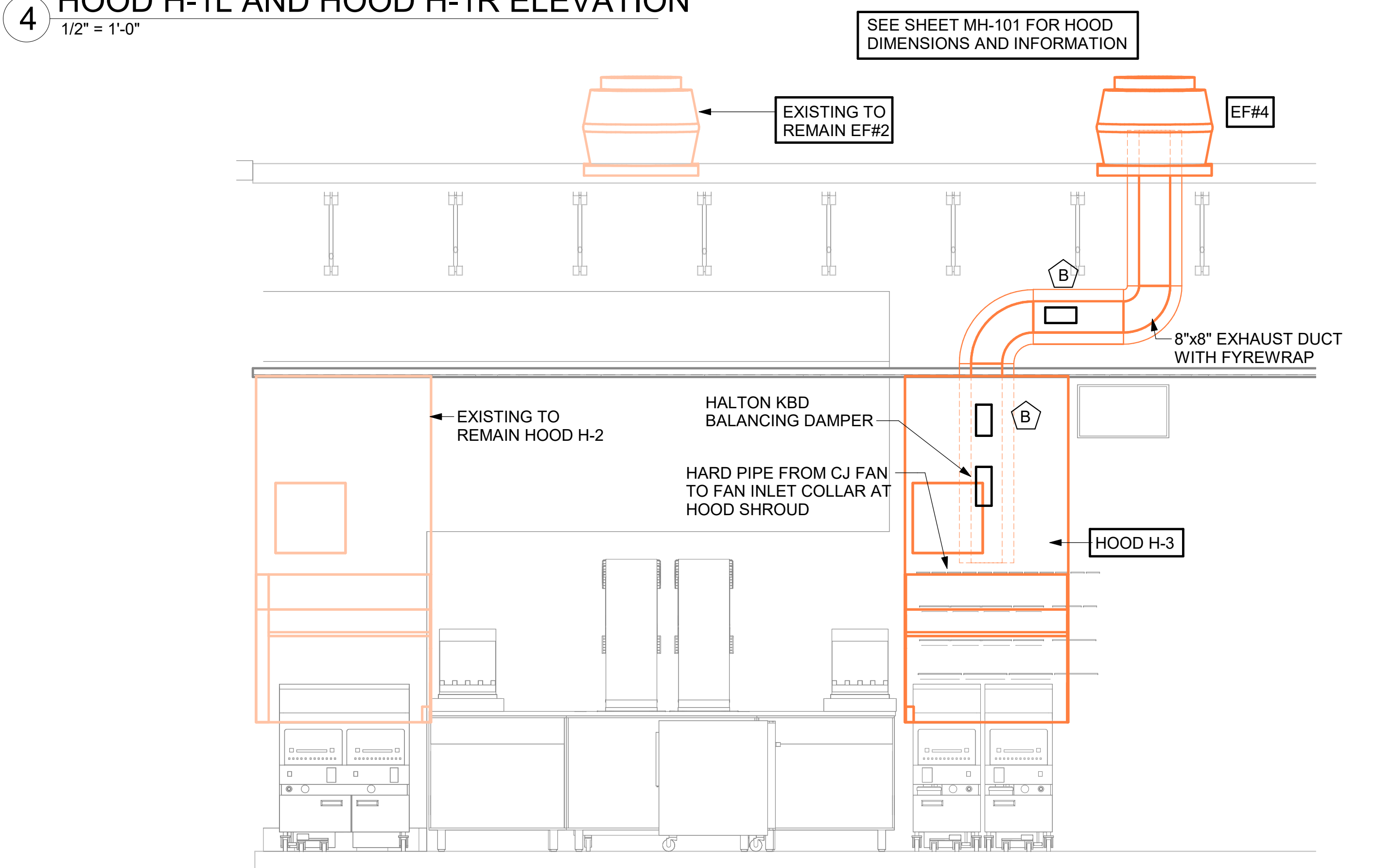
#### NOTES

- 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

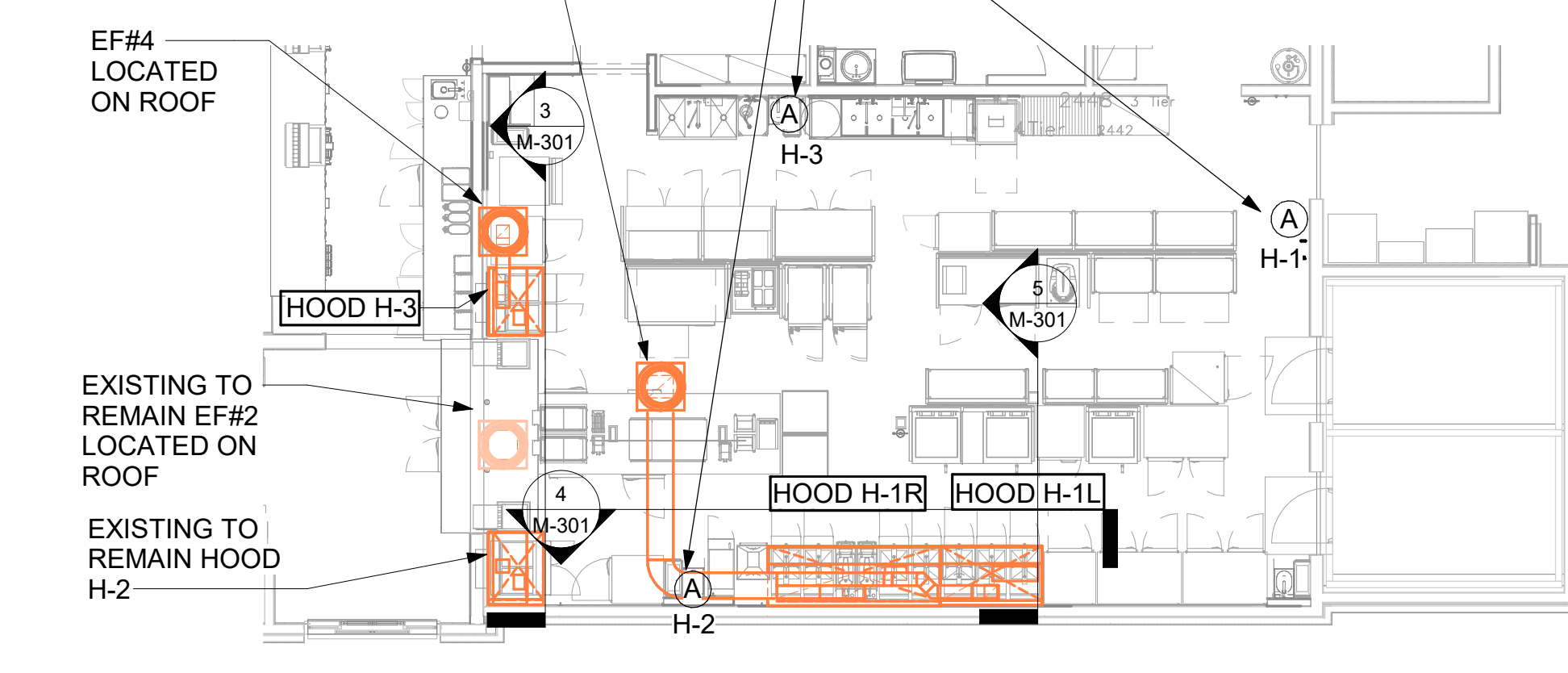
- STAINLESS STEEL CONSTRUCTION.
- PROVIDE FULL HEIGHT SS CLOSURE PANEL WITH ACCESS PANEL IN FRONT LARGE ENOUGH TO REMOVE CAPTURE JET FAN, SERVICE COMPONENTS, AND/OR TO ACCESS KBD EQUALIZER JACK SCREW.
- PROVIDE PRE-PIPED WET FIRE EXTINGUISHING SYSTEM.
- FIRE SUPPRESSION AND COMPONENTS ABOVE HOOD ON RIGHT AND 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 LEFT SIDE SPACER.
- PROVIDE NOTCHED LEFT END SIDE PANEL.
- PROVIDE NOTCHED RIGHT END SIDE PANEL.
- PROVIDE 3"x3" HORIZONTAL AND VERTICAL TRIM ANGLE FOR LEFT SIDE OF HOOD TO FINISH OFF GAP AT WALL.
- PROVIDE FULL LEFT END SIDE PANEL.
- PROVIDE FULL RIGHT END SIDE PANEL.
- PROVIDE HALTON KBD EQUALIZER.
- CONTINUOUS CAPTURE INTERNAL RIGHT END CUTOUT.
- CONTINUOUS CAPTURE INTERNAL LEFT END CUTOUT.

4 HOOD H-1L AND HOOD H-1R ELEVATION  
1/2" = 1'-0"



PULL STATION SERVING BOTH HOOD H-2 AND HOOD H-3. LOCATE 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".

PULL STATION SERVING HOOD H-1. LOCATE 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".

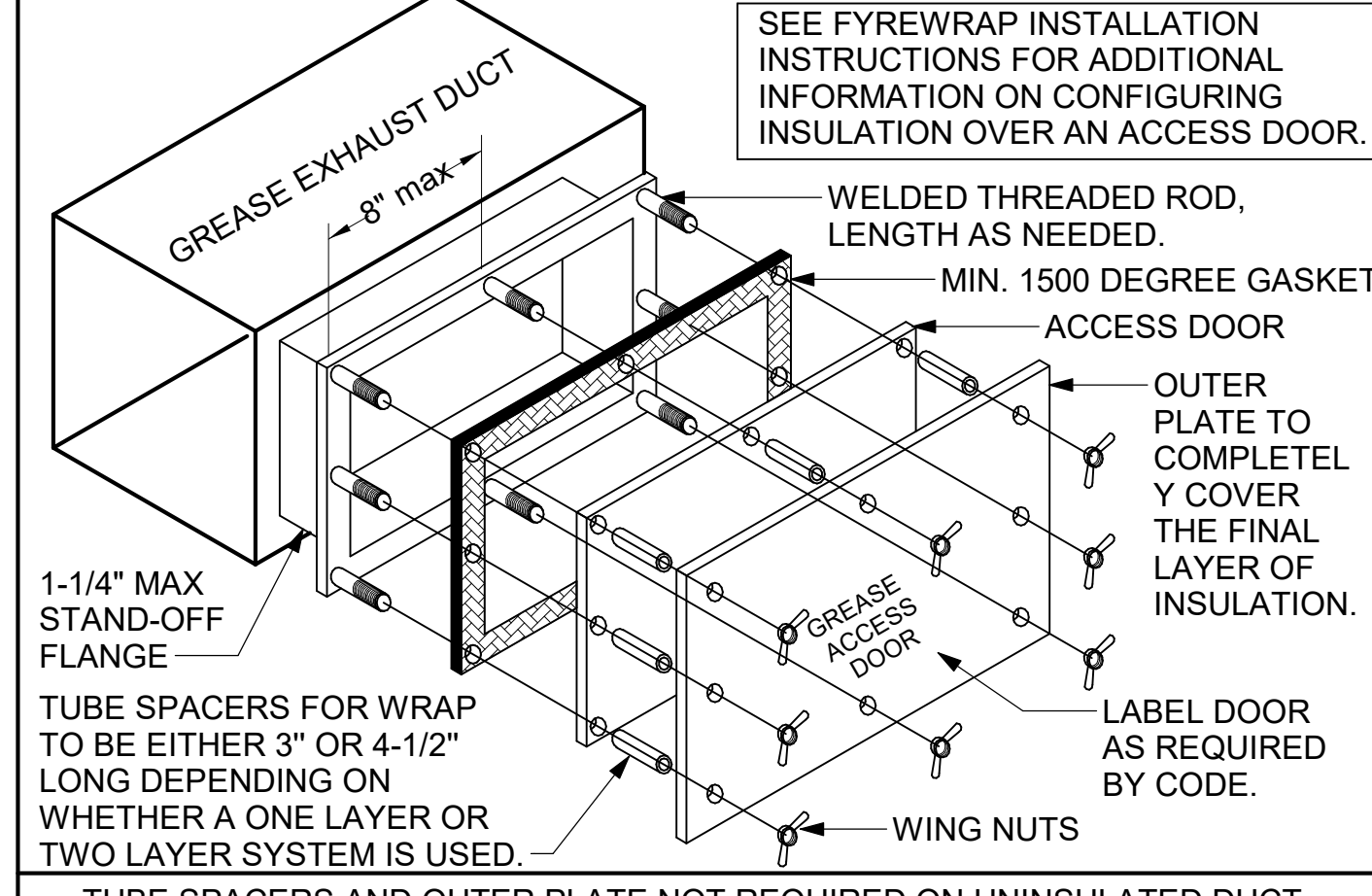


2 HOOD LAYOUT AND PULL STATION LOCATIONS  
1/8" = 1'-0"

### 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

- 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"



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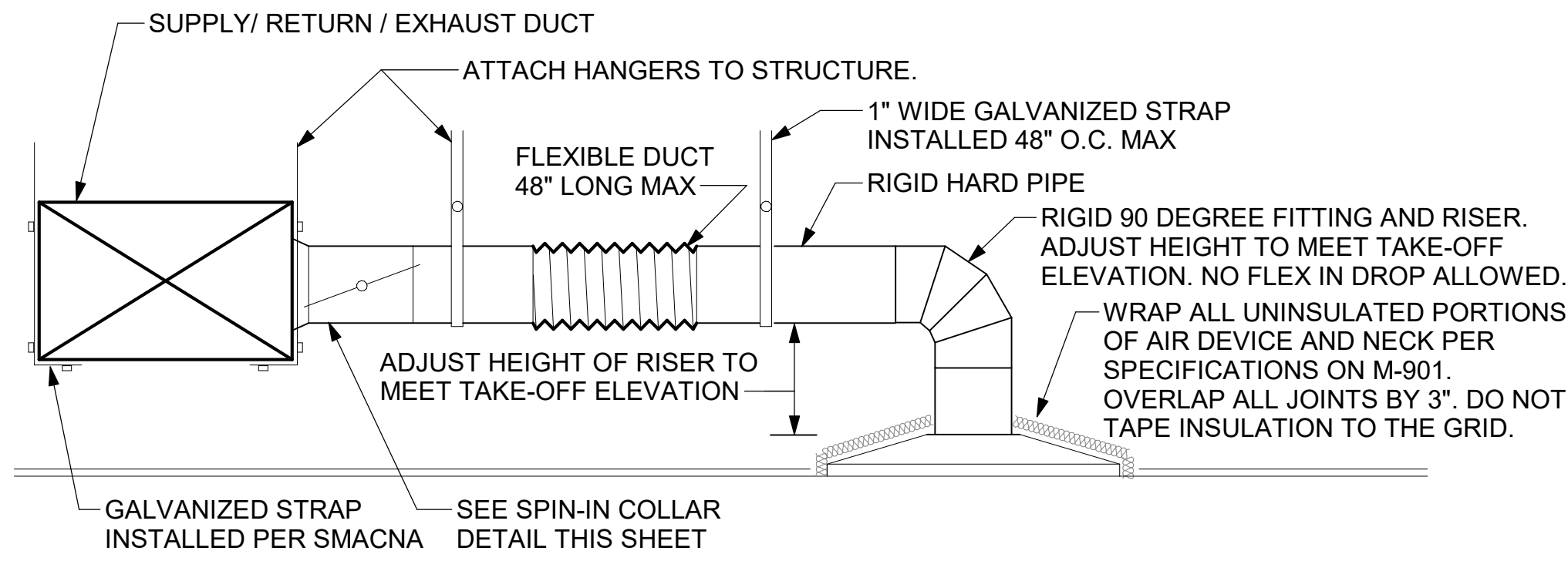
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CONSULTANT PROJECT # C291145  
DATE 11/20/2024  
DRAWN BY JRH  
HOOD DETAILS AND SCHEDULES  
SHEET NUMBER

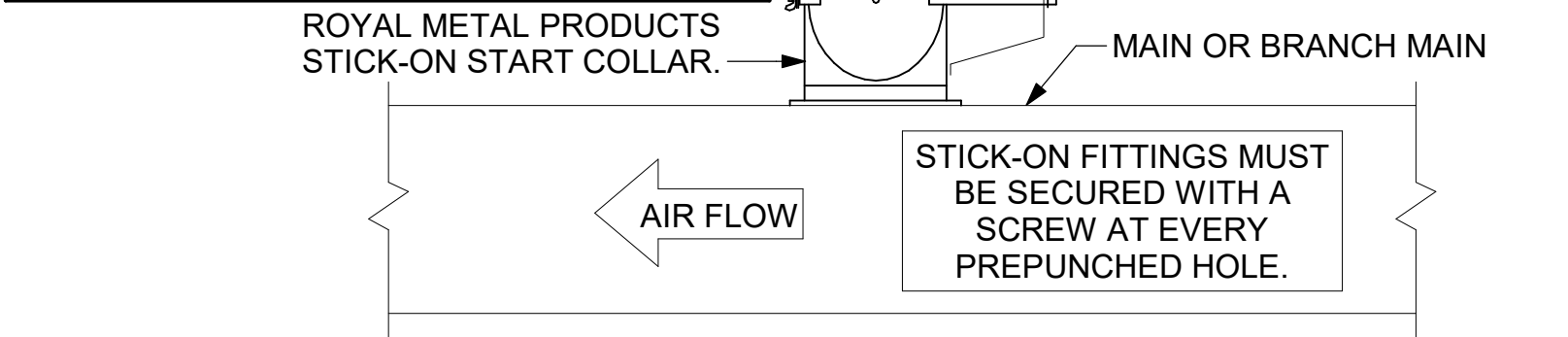
**M-301**



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

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, LOCATED ON THE LEFT OR RIGHT (9 OR 3 O'CLOCK) SIDE WHEN INSTALLED ON HORIZONTAL DUCTS, AND LOCATED ON THE LEFT, RIGHT OR BOTTOM (9, 3, OR 6 O'CLOCK) WHEN INSTALLED ON VERTICAL DUCTS. 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.

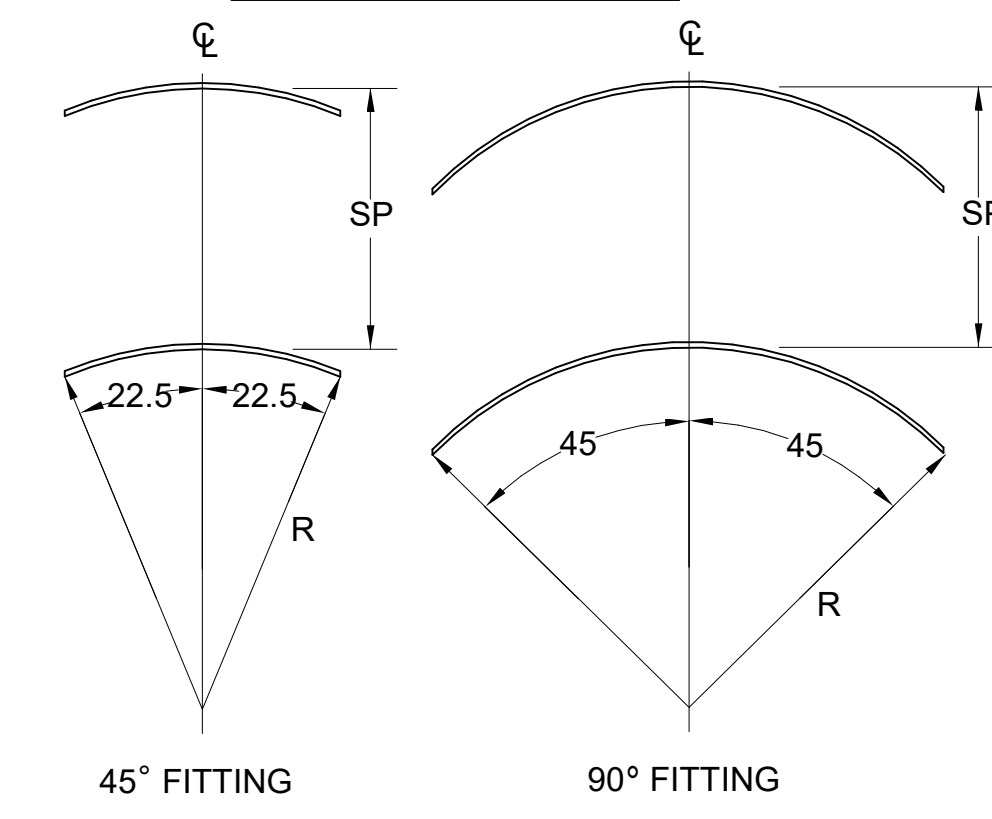


**2 START COLLAR - LARGE**  
NOT TO SCALE

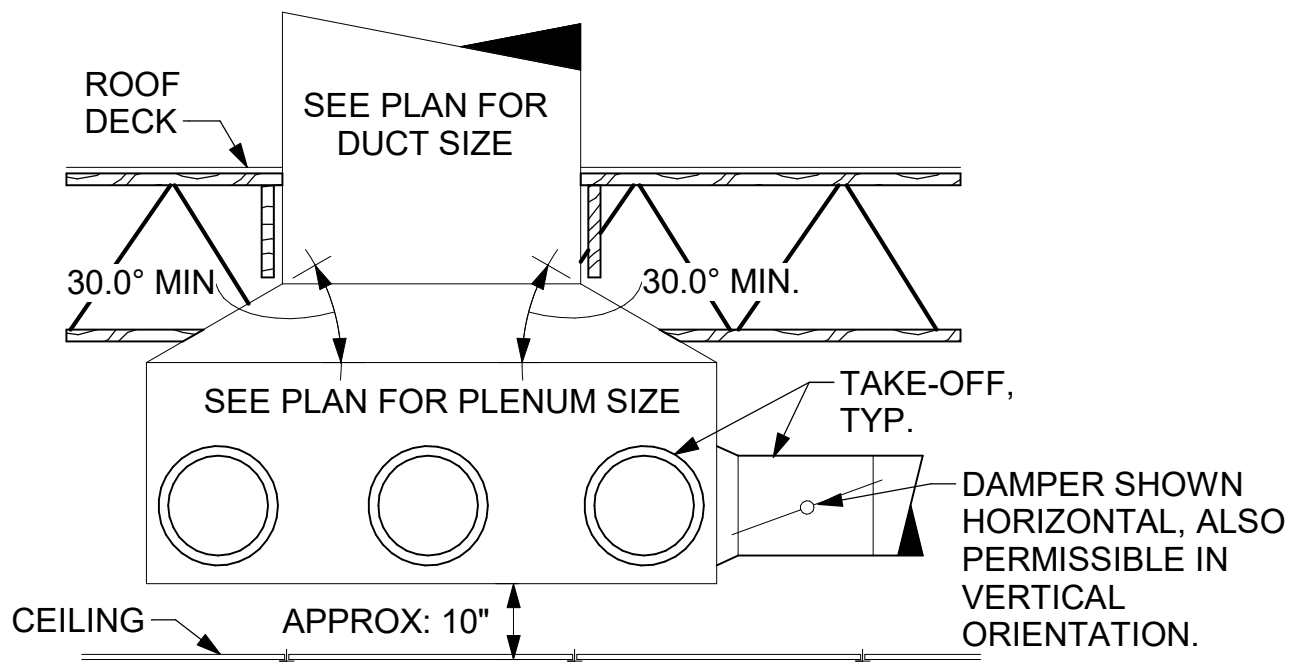
TURNING VANE SCHEDULE

R	SP	GA
2"	1.5"	24

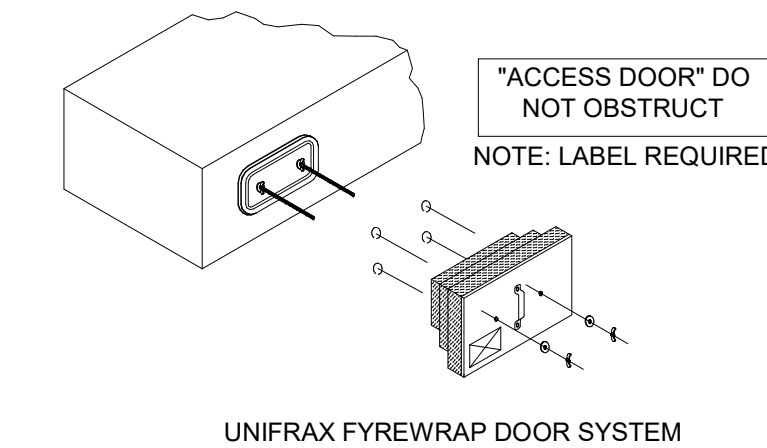
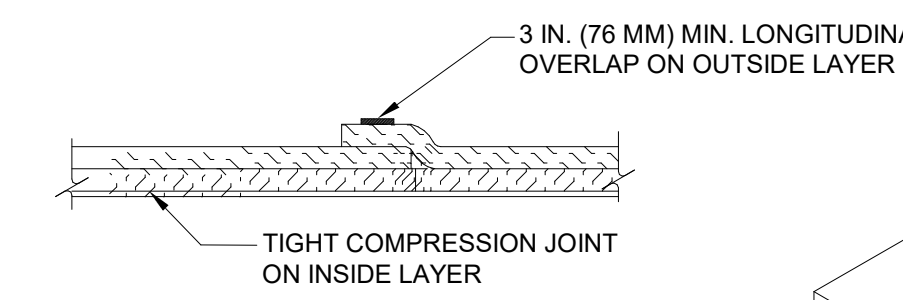
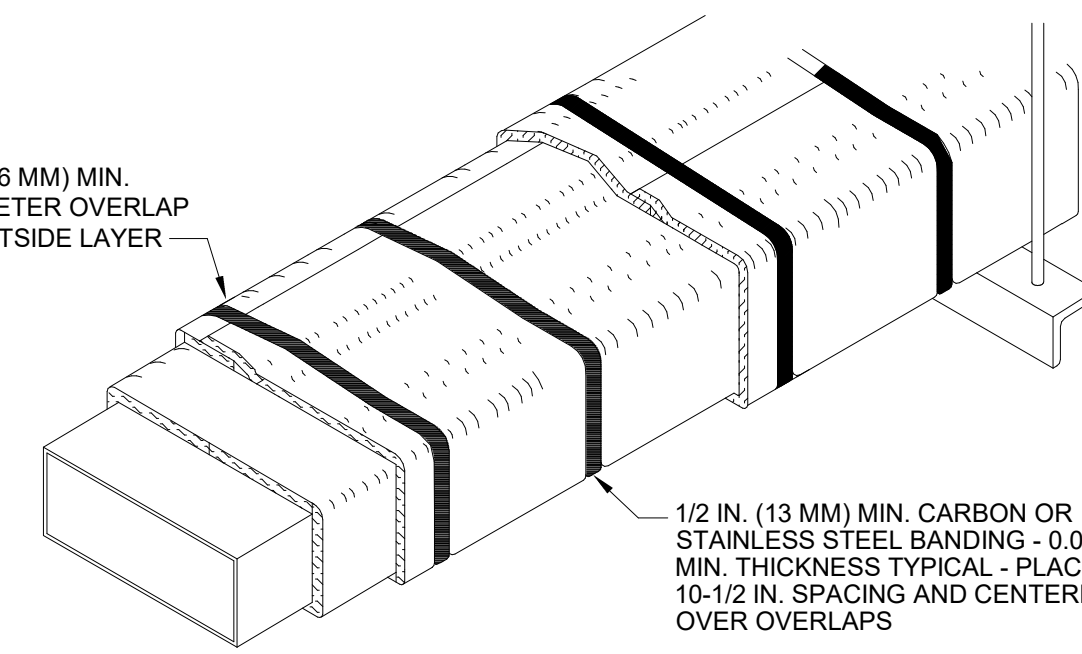
- NO TRAILING EDGE.
- SINGLE THICKNESS CONSTRUCTION.



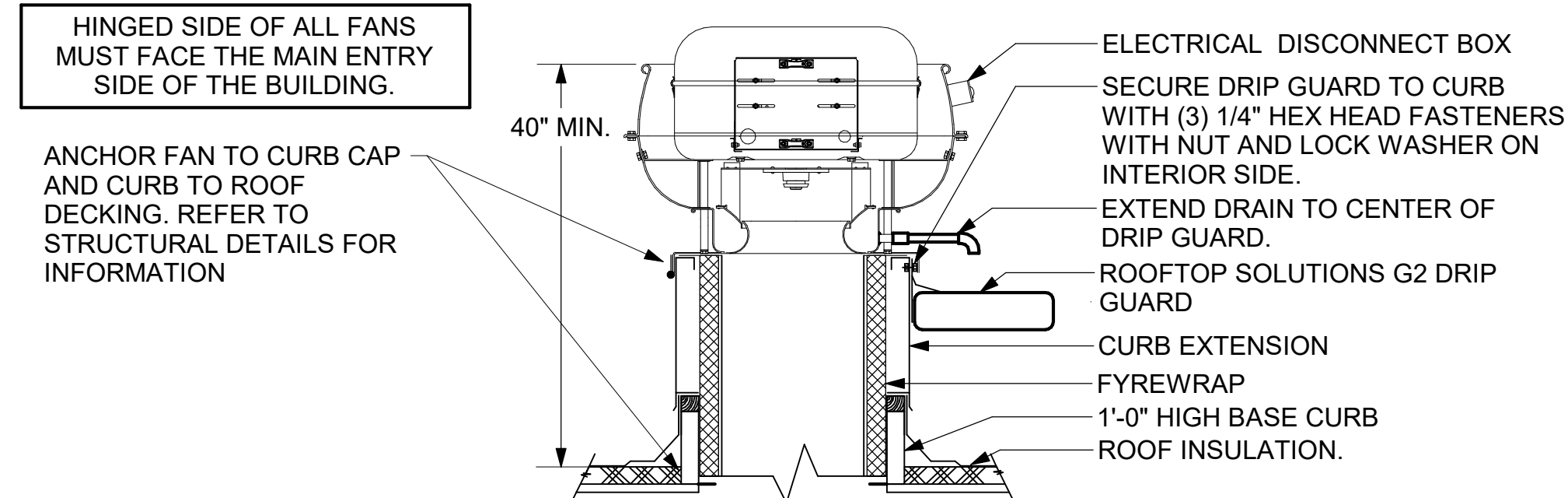
**3 TURNING VANES**  
NOT TO SCALE



**4 RETURN DROP GEOMETRY**  
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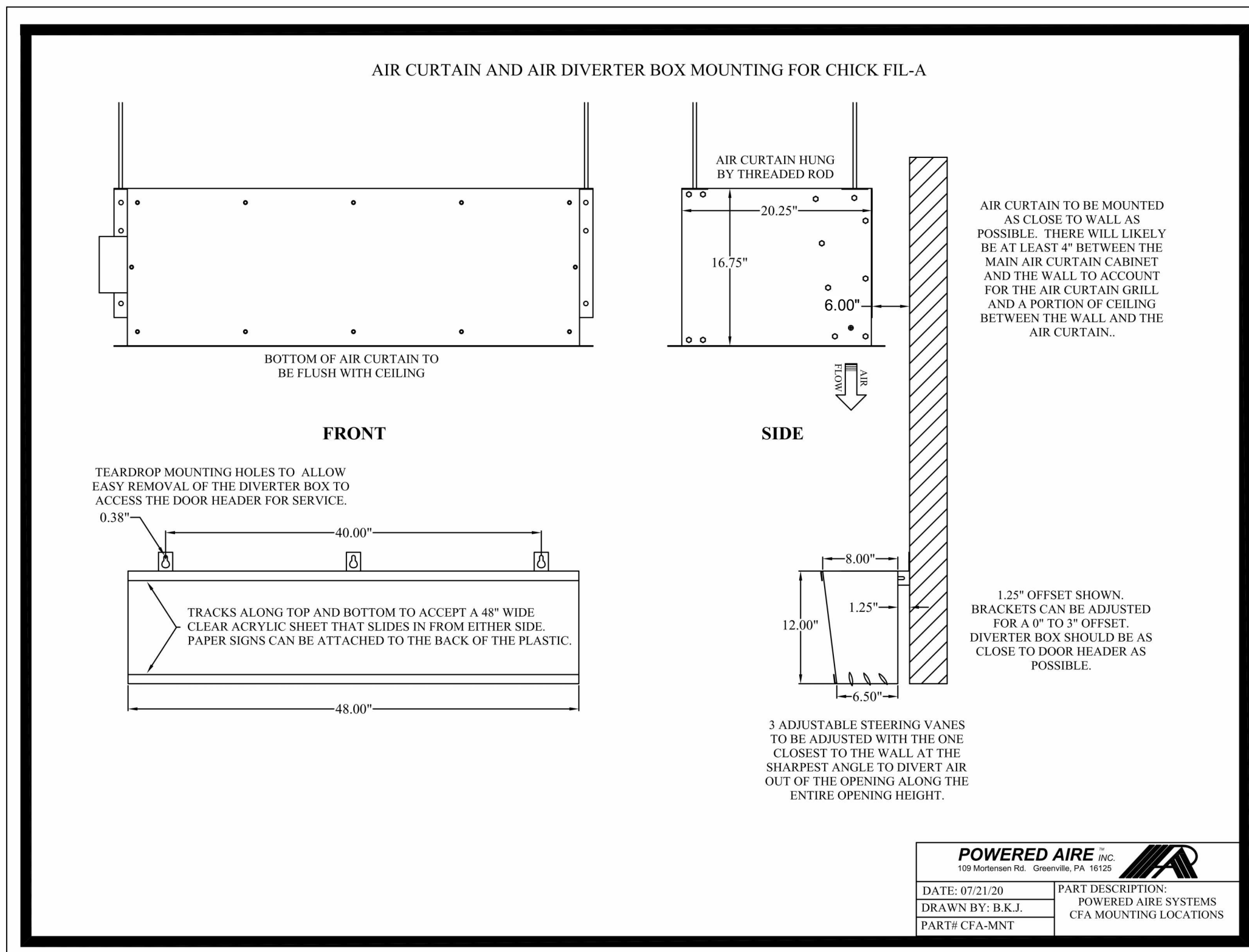


- UNIFRAX Fyrewrap ELITE 1.5 DUCT INSULATION HAS BEEN TESTED IN ACCORDANCE WITH ASTM E 2336 TO PROVIDE ZERO CLEARANCE TO COMBUSTIBLES AND MEETS THE REQUIREMENTS FOR ONE OR TWO HOUR ENCLOSURES THROUGH PENETRATIONS FIRESTOP SYSTEMS ARE TESTED IN ACCORDANCE WITH EITHER ASTM E 814 OR UL 1479. ICC-ES APPROVAL PER REPORT ESR 2213 OR ESR 2832. UNDERWRITER'S LABORATORIES (UL) LISTINGS SHOW COMPLIANCE TO UL 1479 FOR THROUGH PENETRATION FIRESTOP SYSTEMS.
- COMPLIANT TO THE FOLLOWING CODES:  
MECHANICAL CODE: 2024 OHIO MECHANICAL CODE  
INTERNATIONAL MECHANICAL CODE: CURRENT EDITION  
UNIFORM MECHANICAL CODE: CURRENT EDITION  
NFPA 96: CURRENT EDITION  
NFPA 90A: CURRENT EDITION
- INSULATION APPLIED IN TWO LAYERS WITH TIGHT COMPRESSION JOINT ON INSIDE LAYER AND 3 INCH MINIMUM OVERLAPS ON BOTH PERIMETER AND LONGITUDINAL OVERLAPS ON OUTSIDE LAYER.
- GREASE EXHAUST DUCT RUNS FROM THE HOOD EXHAUST CONNECTION UP TO THE EXHAUST FAN ON THE ROOF WITH MINIMAL TURNS OR BENDS AND MAINTAINING MINIMUM 1/4 UNIT VERTICAL RISE PER 12 UNITS HORIZONTAL RUN. NFPA 96 COMPLIANT ACCESS DOORS LOCATED AS REQUIRED BY CODE.
- UNIFRAX Fyrewrap ELITE 1.5 ACCESS DOORS AS SPECIFIED IN ICC-ES BUILDING CODE REPORTS ESR 2213 OR ESR 2832.
- ROOF MOUNTED EXHAUST FAN IS MOUNTED ON A HINGED BASE WHICH ALLOWS ACCESS TO THE DUCT FROM THE ROOF.
- SUPPORT HANGER SYSTEMS DO NOT NEED TO BE WRAPPED PROVIDED THE HANGER RODS ARE AT LEAST A MINIMUM OF 3/8 IN. DIAMETER. USE MINIMUM 2 X 2 X 1/8 IN. STEEL ANGLE OR SMACNA EQUIVALENT SUPPORT SYSTEM.
- UNIFRAX Fyrewrap ELITE 1.5 DUCT ENCLOSURE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
- UNIFRAX Fyrewrap ELITE 1.5 DUCT WRAP SHALL BE INSTALLED ON THE DUCT FROM THE HOOD CONNECTION TO THE CONNECTION TO THE FAN.

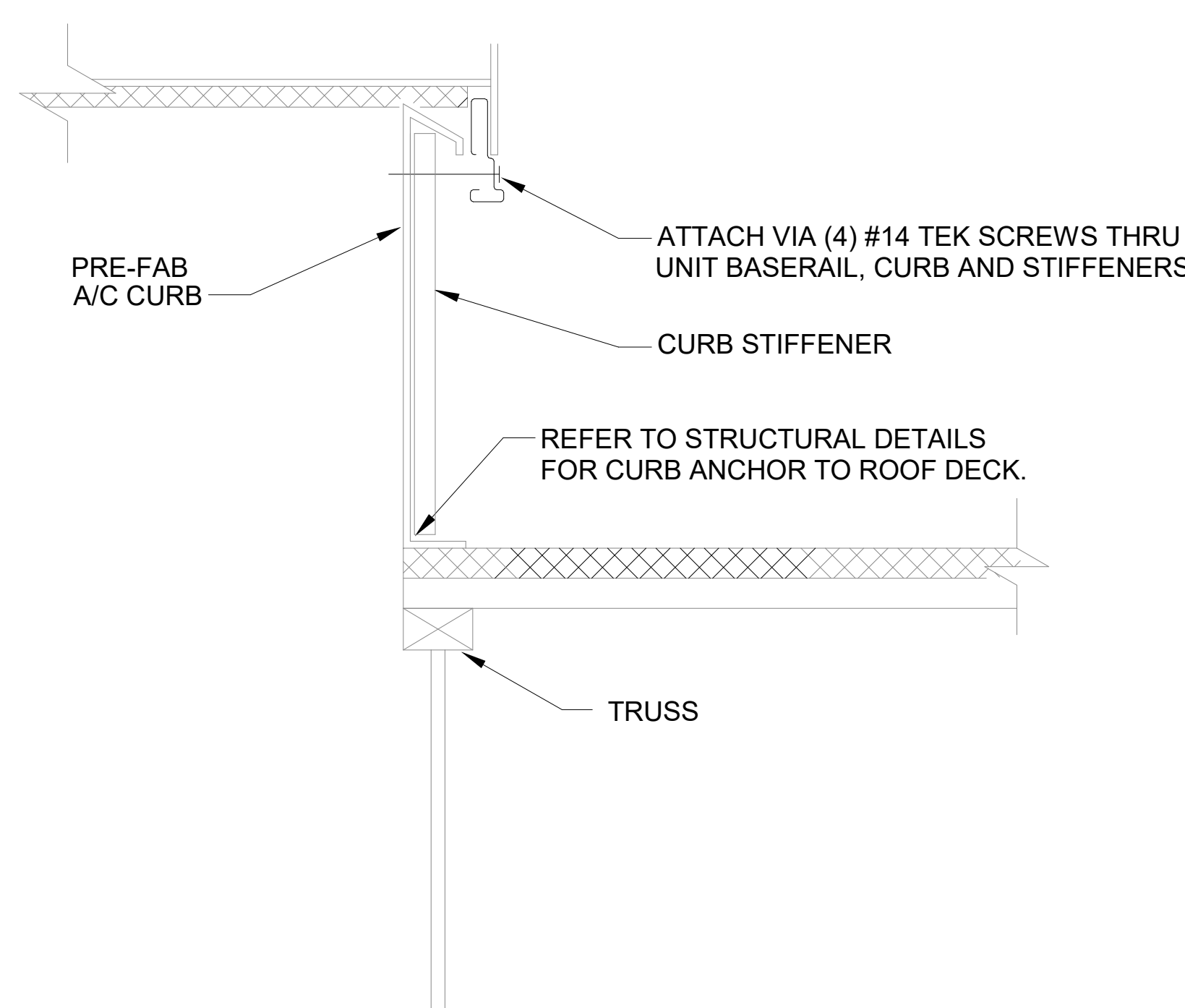


**6 KITCHEN HOOD EXHAUST FAN**  
1/4" = 1'-0"

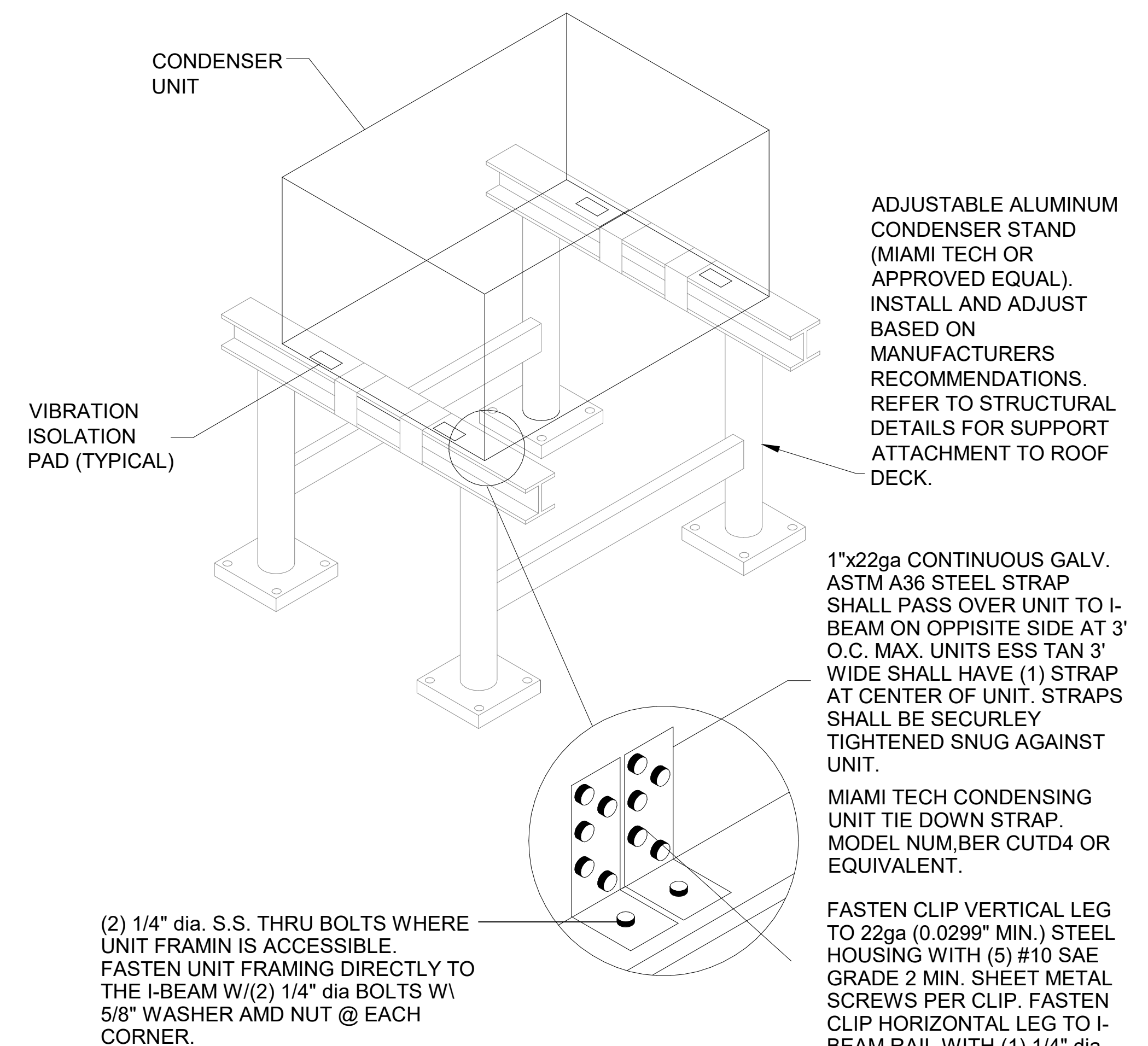
**5 GREASE EXHAUST DUCT PROTECTION TO COMBUSTIBLES DETAIL**  
1/4" = 1'-0"



**7 AIR DIVERTER DETAIL**  
SCALE: N.T.S.



**8 RTU TIE-DOWN DETAIL**  
1/4" = 1'-0"



**9 CONDENSER UNIT TIE-DOWN DETAIL**  
NOT TO SCALE



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Engineering Corp. No. 06814

Seal:

Name  
License No.:

CHICK-FIL-A  
DEERFIELD CROSSING

5150 MERTEN DR  
MASON, OH 45040

SRI#02486

BUILDING TYPE / SIZE: SRI S06 C-R  
RELEASE: 22-12

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REVISION SCHEDULE	NO.	DATE	DESCRIPTION
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CONSULTANT PROJECT # C291145

DATE 11/20/2024

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SHEET HVAC DETAILS

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30-02486-M-402-HVAC SCHEDULES  
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### AIR BALANCE SCHEDULE

MARK	SUPPLY AIR	RETURN AIR	OUTSIDE AIR	EXHAUST AIR	BUILDING POSITIVE PRESSURE
EXISTING AC#1	8,550	6,650	1,900		
NEW AC#2	2,500	1,950	550		
EXISTING AC#3	4,000	3,100	900		
EXISTING AC#4	2,765	2,165	600		
EXISTING AC#5	1,800	1,400	400		
EF#1 (NEW)				1,913	
EF#2 (EXISTING)				701	
EF#3 (EXISTING)				400	
EF#4 (NEW)				701	
TOTALS:	19,615	15,265	4,350	3,715	+710

NOTES:

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

### 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
- FACTORY 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 APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	DINING/ 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"	BEVELED	1,5,6
E	TITUS MODEL 272FL DOUBLE DEFLECTION ALUMINUM SIDEWALL SUPPLY GRILLE. FRONT BLADE PARALLEL TO LONG SIDE.	PLAYGROUND	18"x12"	20"x14"	SURFACE	1
F	PRICE MODEL 80 EGGGRATE RETURN AIR GRILLE WITH REMOVABLE WHITE CORE. FACTORY FLAT BLACK BACKPAN AND ROUND NECK.	DINING/ OFFICE/ KITCHEN	VARIES	24"x24"	LAY-IN	1,7
J	PRICE MODEL SMCD STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	RESTROOMS	10"x10"	15"x15"	BEVELED	1,2,5,6
K	PRICE MODEL APDOR 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

- 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.
- 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.

### GAS FIRED ROOFTOP UNIT SCHEDULE

MARK	AREA SERVED	TONNAGE	COOLING CAPACITY (MBH)		HEATING CAPACITY (MBH)		FAN SECTION (CFM) INCLUDING EXISTING AC UNITS REBALANCE				% OA	MODEL	MANUFACTURER	ELECTRICAL DATA			REMARKS	APPROX. WEIGHT WITH OPTIONS (POUNDS)
			TOTAL	SENS	INPUT	OUTPUT	SUPPLY	O.A.	HP	ESP				V/PH/Hz	MCA	MOCP		
EXISTING AC#1	KITCHEN	25.0	----	----	480	384	8,550	1,900	----	----	22.2%	EXISTING	EXISTING	----	----	----	EXISTING	EXISTING
NEW AC#2	DINING A, RR	8.5	100.8	75.6	240	194	2,500	550	3.75	0.8	22.0%	LGT102H4EH	LENNOX	208/3/60	44	50	2,3,4,5,7,8,9,10,12,13,14,16,17,18,20	1,400
EXISTING AC#3	DINING, DT, SERV.	10.0	----	----	180	144	4,000	900	----	----	22.5%	EXISTING	EXISTING	----	----	----	EXISTING	EXISTING
NEW AC#4	DINING "B"	7.5	95.1	68.4	240	194	2,765	600	3.75	0.8	21.7%	LGT092H4EH	LENNOX	208/3/60	43	50	2,3,4,5,7,8,9,10,12,13,14,16,17,18,20	1,400
NEW AC#5	PLAY AREA	5.0	63.0	47.3	150	121	1,800	400	1.5	0.8	22.2%	LGT060H4EX	LENNOX	208/3/60	25	35	2,3,4,5,7,8,9,10,12,13,14,16,17,18,20	950

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 972-497-6112) 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. REFER TO STRUCTURAL 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 FACTORY COIL HAIL GUARD, FIELD INSTALLED.
- PROVIDE FRESH AIR TEMPERING KIT.
- 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.
- PROVIDE WITH 100K SCCR RATING. REFER TO DESIGN NOTE 2022-007 FOR MORE INFORMATION.

### HEATER SCHEDULE

MARK	HEATING INPUT		FRAME LENGTH	FRAME WIDTH	FRAME DEPTH	MOUNTING TYPE	VOLTAGE (V)	PHASE	FLA (A)	MOCP (A)	MODEL	MANUFACTURER	REMARKS
	ELECTRIC (KW)	GAS (MBH)											
EIH	6.00	0.0	56"	8.5"	3.5"	WALL BRACKET	208	1	28.9	40	BH0420035	BROMIC	1, 2, 3, 4

NOTES

- NATIONAL ACCOUNT NO SUBSTITUTIONS PERMITTED - SEE DRAWING M-901.
- CONFIRM HEATER QUANTITY WITH CANOPY SHOP DRAWINGS.

REMARKS

- STAINLESS STEEL LENS WITH BLACK EMISSIVE COATING.
- PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND.
- PROVIDE BLACK HEATER WITH HIGH TEMPERATURE COATING, AND MANUFACTURER MOUNTING BRACKETS.
- PROVIDE BROMIC WALL MOUNTED ELECTRIC HEATER MODEL: BH0420035 FOR 220-240V SITES.

### EXHAUST FAN SCHEDULE

MARK	CFM	ESP	RPM	HP	AREA SERVED	MODEL	MANUFACTURER	REMARKS
EF#1	1,913	0.75	1,078	3/4	HOOD H-1 L&R	180VCR	LOREN COOK	1,2,3,4,5,7
EF#2	701	0.75	1,216	1/3	HOOD H-3	150VCR-HP	LOREN COOK	1,2,3,4,5,7
EF#3	400	-	-	-	RESTROOMS	-	EXISTING	6
EF#4	701	-	-	-	HOOD H-2	-	EXISTING	6

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 BARROW COMPANY FOR THE FAN CURB PACKAGE. 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. FANS AND CURBS NOT PURCHASED THRU TOM BARROW 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 6M-401.

CHICK-FIL-A  
DEERFIELD CROSSING  
5150 MERTEN DR  
MASON, OH 45040

SRI#02486

BUILDING TYPE / SIZE: SRI S06 C-R  
RELEASE: 22-12

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3	04/14/25	BID ADD 1
	04/14/25	CONST SET

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HVAC SCHEDULES  
SHEET NUMBER

M-402



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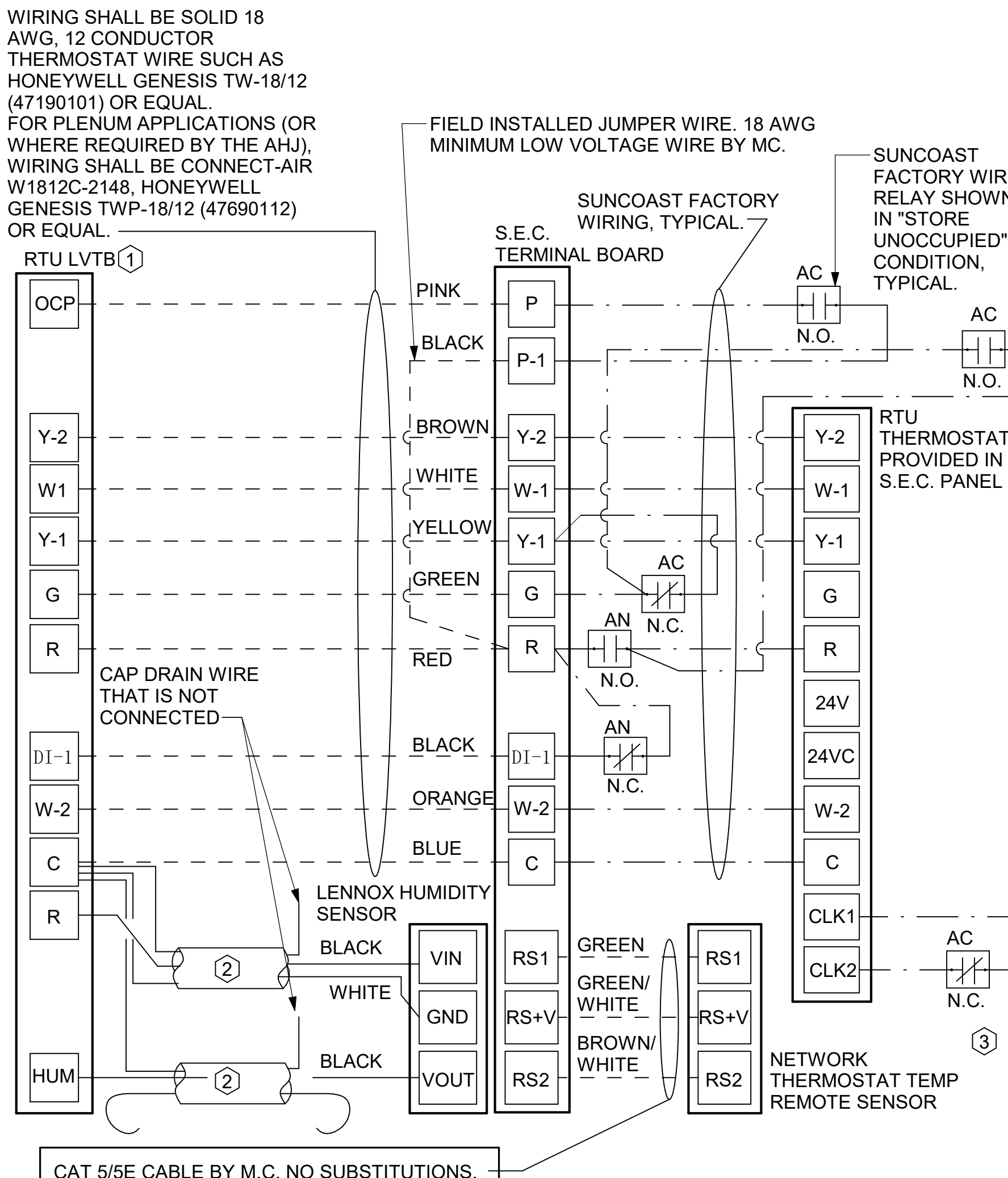
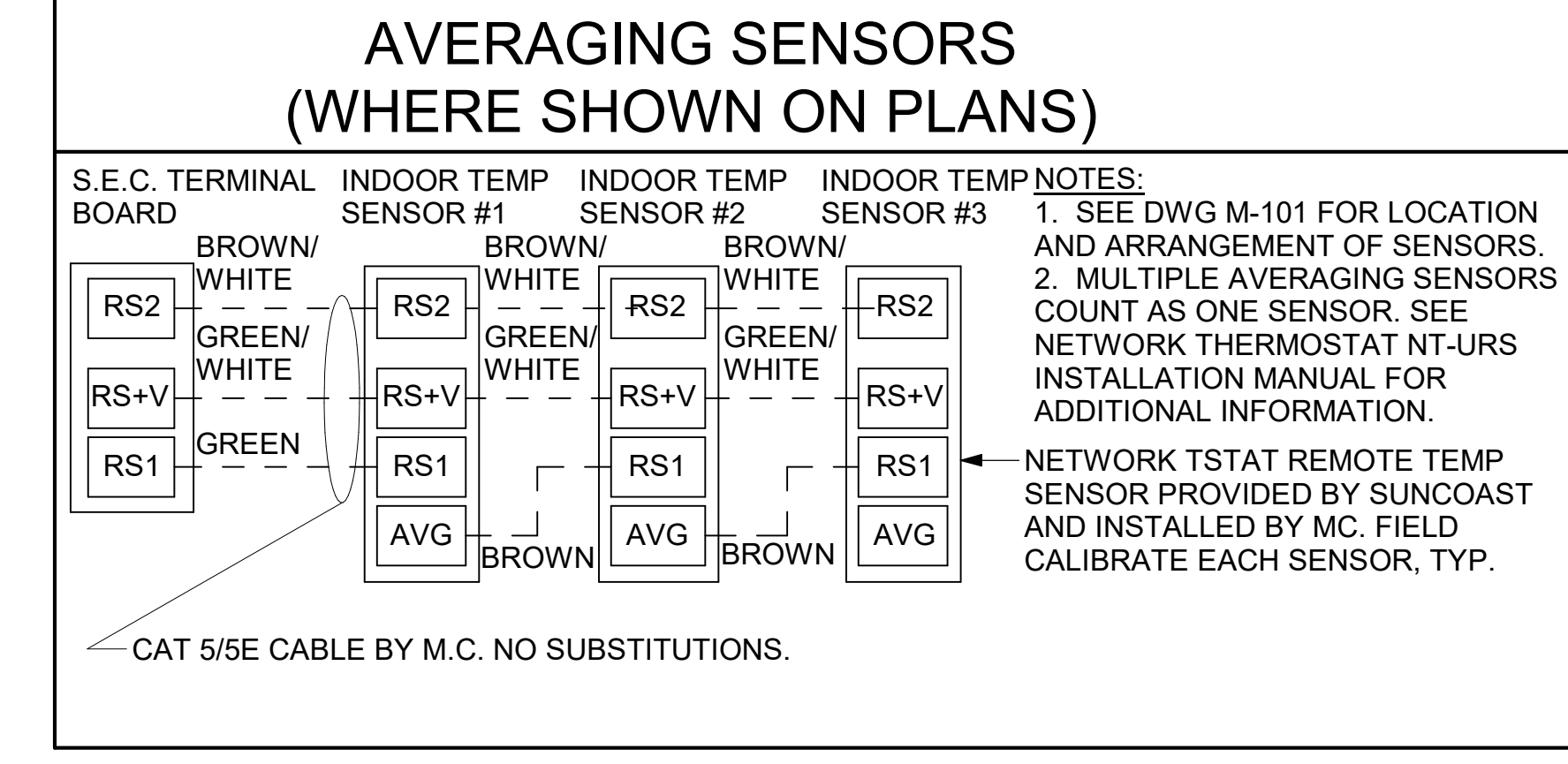
Name: License No.:

- 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#2 HUMIDITY SENSOR" OR "AC#2 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 SINGLE 18/2 SENSOR CABLE: BELDEN 8760 OR EQUAL HUMIDITROL INTERFACE TO SET RELATIVE HUMIDITY. SET AT 60%.
  - NETWORK TSTAT REMOTE TEMP SENSOR PROVIDED BY SUNCOAST AND INSTALLED BY MC. SENSOR IS INTENDED TO BE SURFACE MOUNTED AND DOES NOT REQUIRE A SINGLE GANG BOX OF CONDUIT. FIELD CALIBRATE EACH SENSOR.

LEGEND

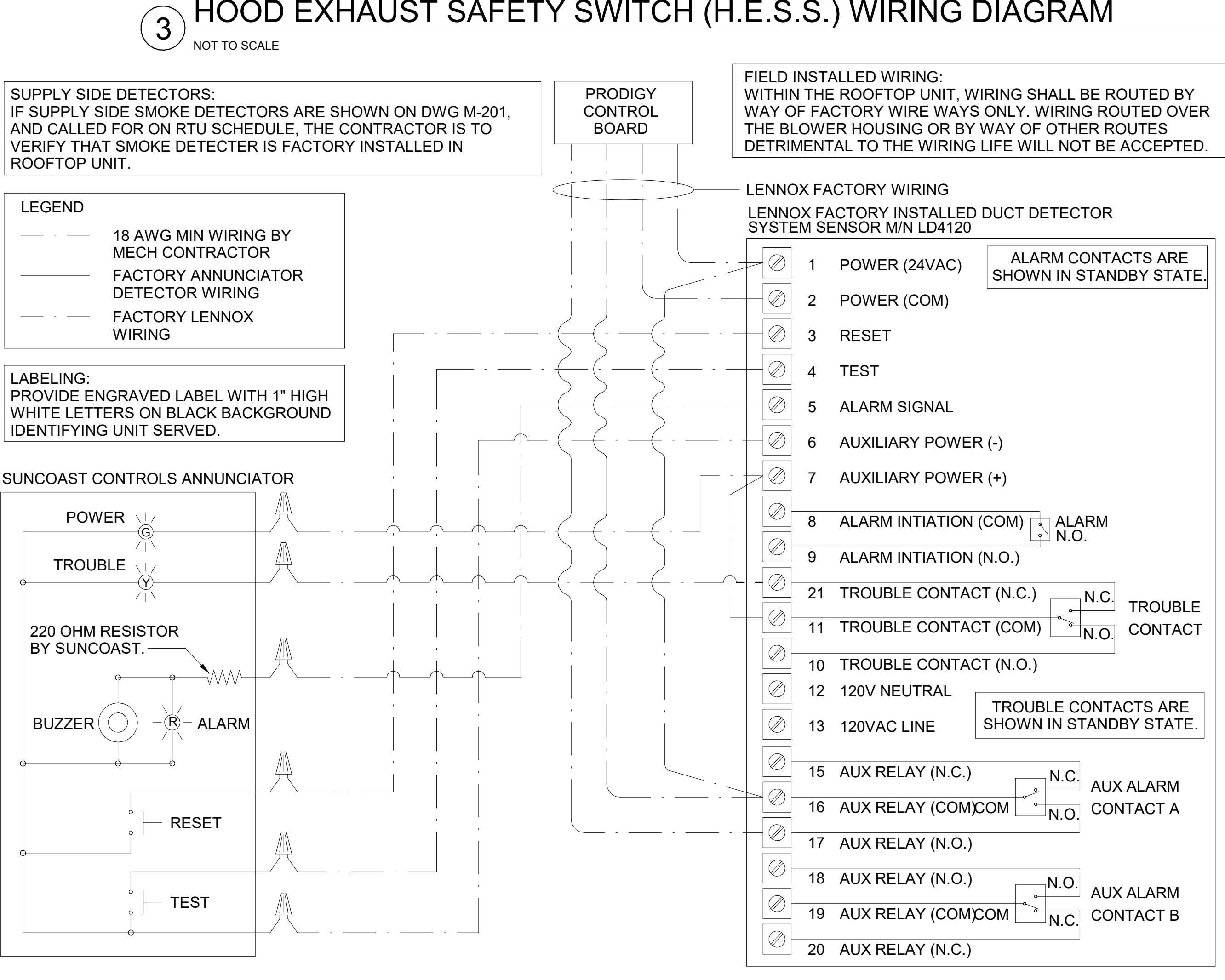
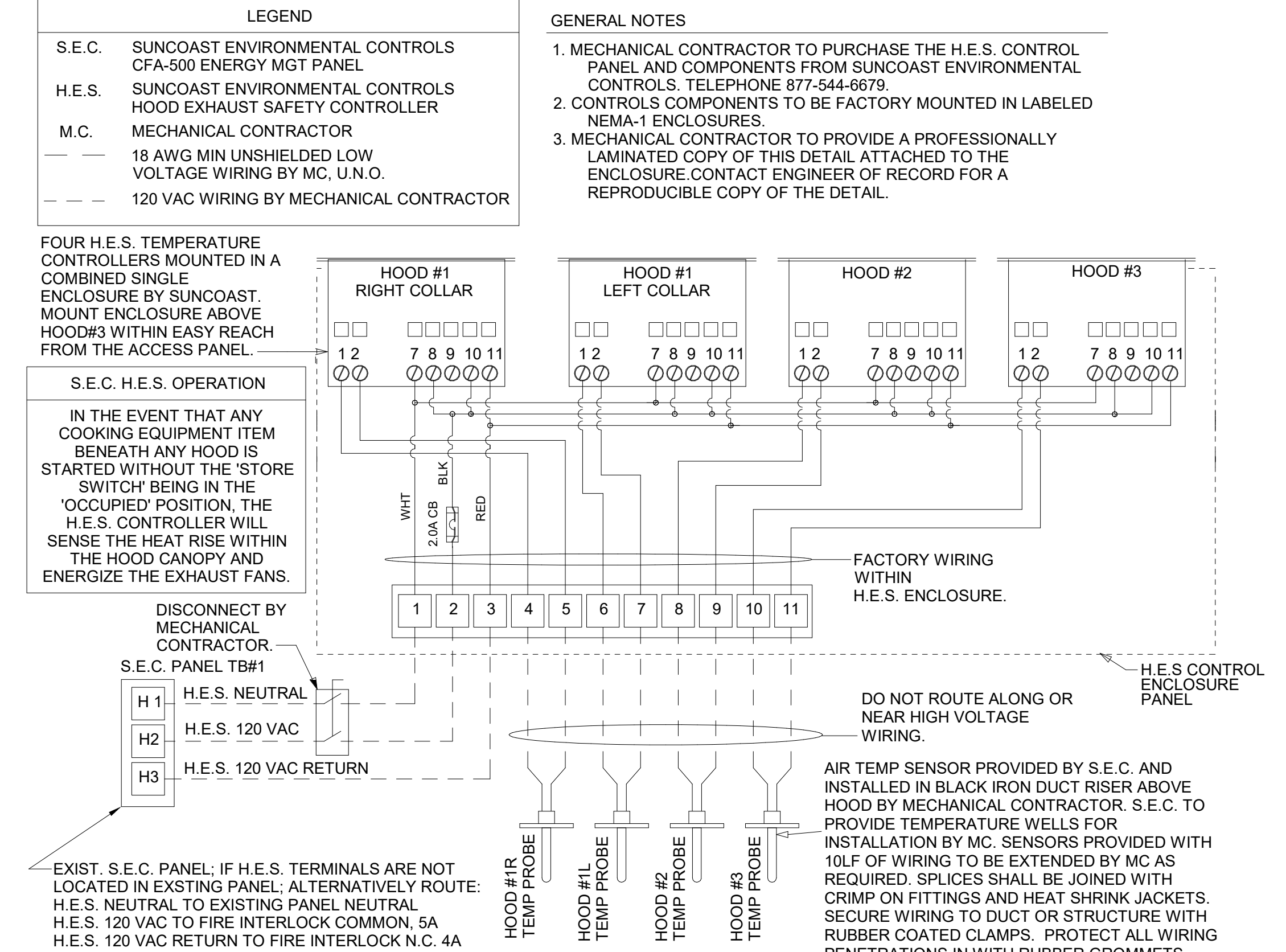
S.E.C.	SUNCOAST ENVIRONMENTAL CONTROLS (SUPPLIER OF TEMP/FAN CONTROL PANEL) LOCATED IN KITCHEN
MC	MECHANICAL CONTRACTOR
AC	SUNCOAST RELAY FACTORY INSTALLED AND WIRED IN CFA-500 PANEL, ENERGIZED BY PUTTING STORE SWITCH IN "STORE OCCUPIED" POSITION.
AN	SUNCOAST RELAY FACTORY INSTALLED AND WIRED IN CFA-500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



2 ROOFTOP UNIT CONTROL WIRING - LENNOX  
NOT TO SCALE

- LENNOX PRODIGY 2.0 OR CORE UNIT CONTROLLER SETTINGS:
- FOR ALL RTU'S, ELIMINATE THE MORNING WARMUP/OSA DAMPER DELAY. THE MENU PATH IS:
    - MAIN MENU > SETTINGS > RTU OPTIONS > EDIT PARAMETERS
    - FOR GAS HEAT UNITS (LGT):
      - CHANGE PARAMETER #65 SETTING TO 1 FOR ELECTRIC HEAT UNITS (LCT);
      - CHANGE PARAMETER #58 TO 1
  - 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 OR CORE UNIT CONTROLLER WITHIN MAIN MENU GO TO SET-UP TO TEST AND BALANCE TO DAMPER. FOLLOW MENU PATH SET FRESH AIR HEATING ENABLE TO "YES" SET FAH SETPOINT TO 66F THIS WILL TEMPER SUPPLY AIR BELOW 66F WITH INTERMITTENT HEATING WHEN THERMOSTAT IS NOT ACTIVELY CALLING FOR HEAT.
  - CHANGE PRODIGY 2.0 OR CORE UNIT CONTROLLER PARAMETER #157. WITHIN MAIN MENU GO TO SETTINGS TO RTU OPTIONS TO EDIT PARAMETER VALUE TO 14 FOR A 14F FAH DEADBAND AND SAVE.
  - CHANGE PRODIGY 2.0 OR CORE UNIT CONTROLLER PARAMETER #158. WITHIN MAIN MENU GO TO SETTINGS TO RTU OPTIONS TO EDIT PARAMETER ADJUST VALUE TO 300 SECONDS FOR 5 MINUTE CYCLE TIME AND SAVE.



1 SMOKE DETECTOR AND ANNUNCIATOR WIRING DIAGRAM  
NOT TO SCALE

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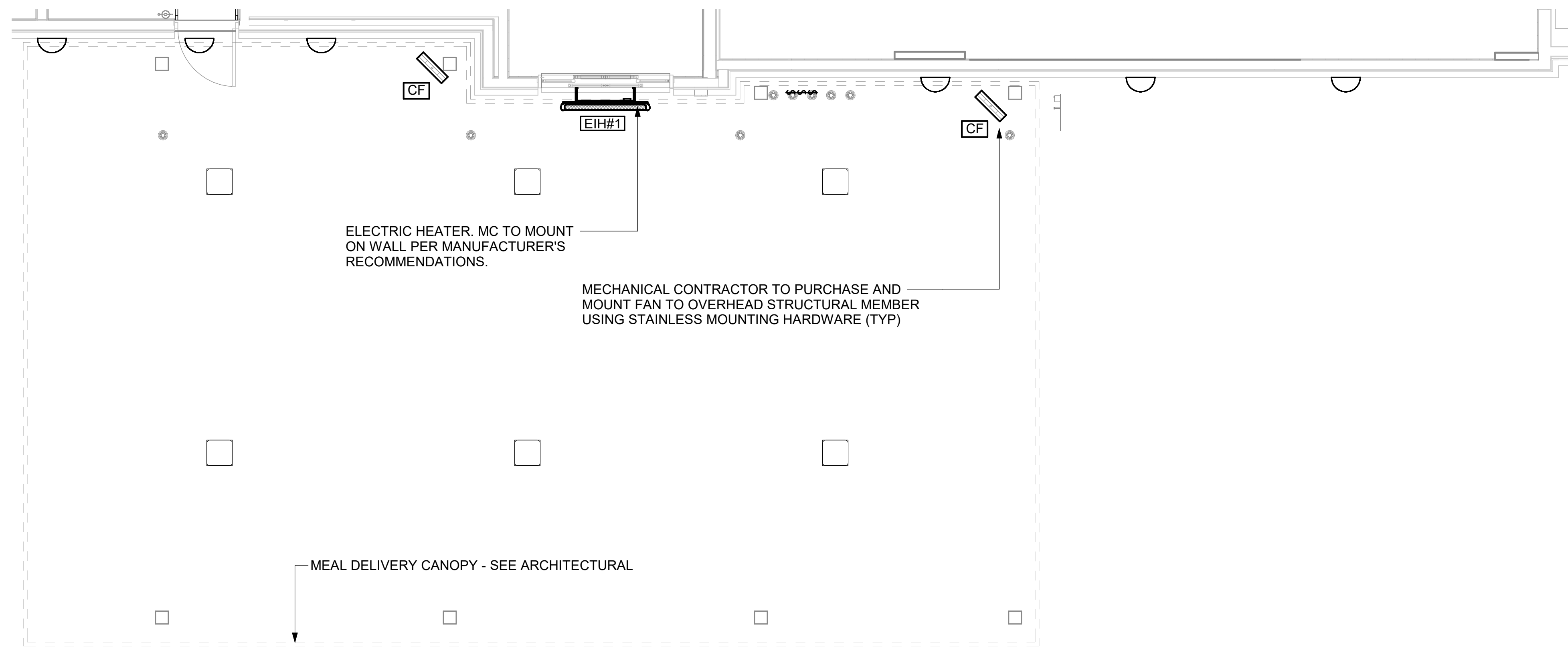
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DATE 11/20/2024  
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DATE 11/20/2024  
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HVAC CONTROLS  
SHEET NUMBER

M-501

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30-02486-M-601-CANOPY MECHANICAL PLANS



1 MECHANICAL FLOOR PLAN - OUTSIDE MEAL DELIVERY CANOPY  
1/4" = 1'-0"



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**SRI#02486**

BUILDING TYPE / SIZE: SRI S06 C-R  
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DATE 11/20/2024

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SHEET  
**CANOPY MECHANICAL PLANS**

SHEET NUMBER

**M-601**

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 GAS HEATING UNITS BY LENNOX AS SHOWN ON DRAWINGS. EQUIPMENT SHALL BE ARI CERTIFIED 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. RADIUSSED 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 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 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.	NOTE NOT USED.
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.	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.	NOTE NOT USED.



Chick-fil-A

**Chick-fil-A**  
5200 Buffington Road  
Atlanta, Georgia  
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**CHICK-FIL-A**  
**DEERFIELD CROSSING**  
**5150 MERTEN DR**  
**MASON, OH 45040**

**SRI#02486**

BUILDING TYPE / SIZE: SRI S06 C-R  
RELEASE: 22-12

PRINTED FOR  
**CONST**

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
11/20/24		PERMIT SET
01/03/25		BID SET
04/14/25		CONST SET

CONSULTANT PROJECT # C291145

DATE 11/20/2024

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SHEET HVAC SPECIFICATIONS

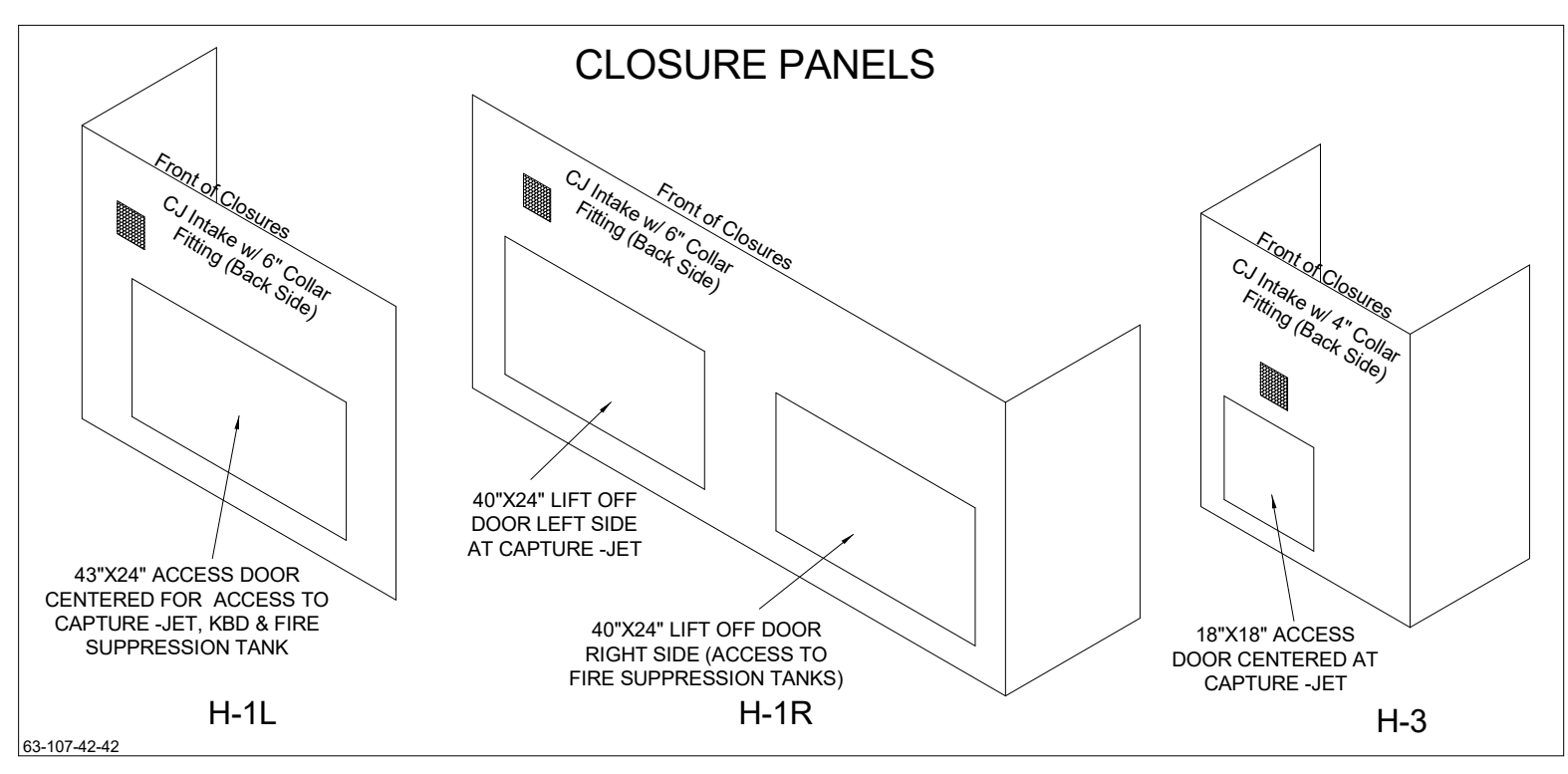
SHEET NUMBER

**M-901**

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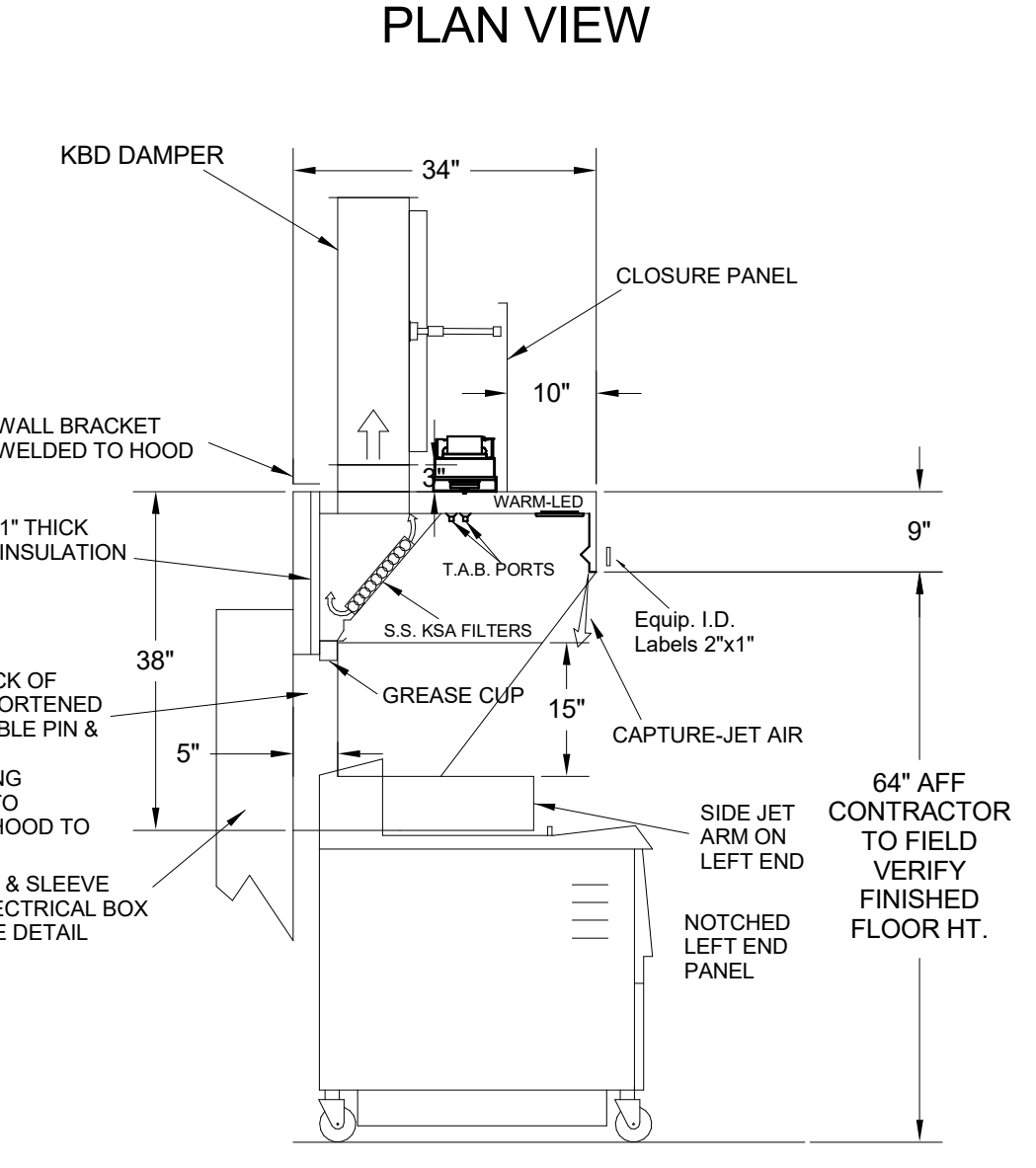
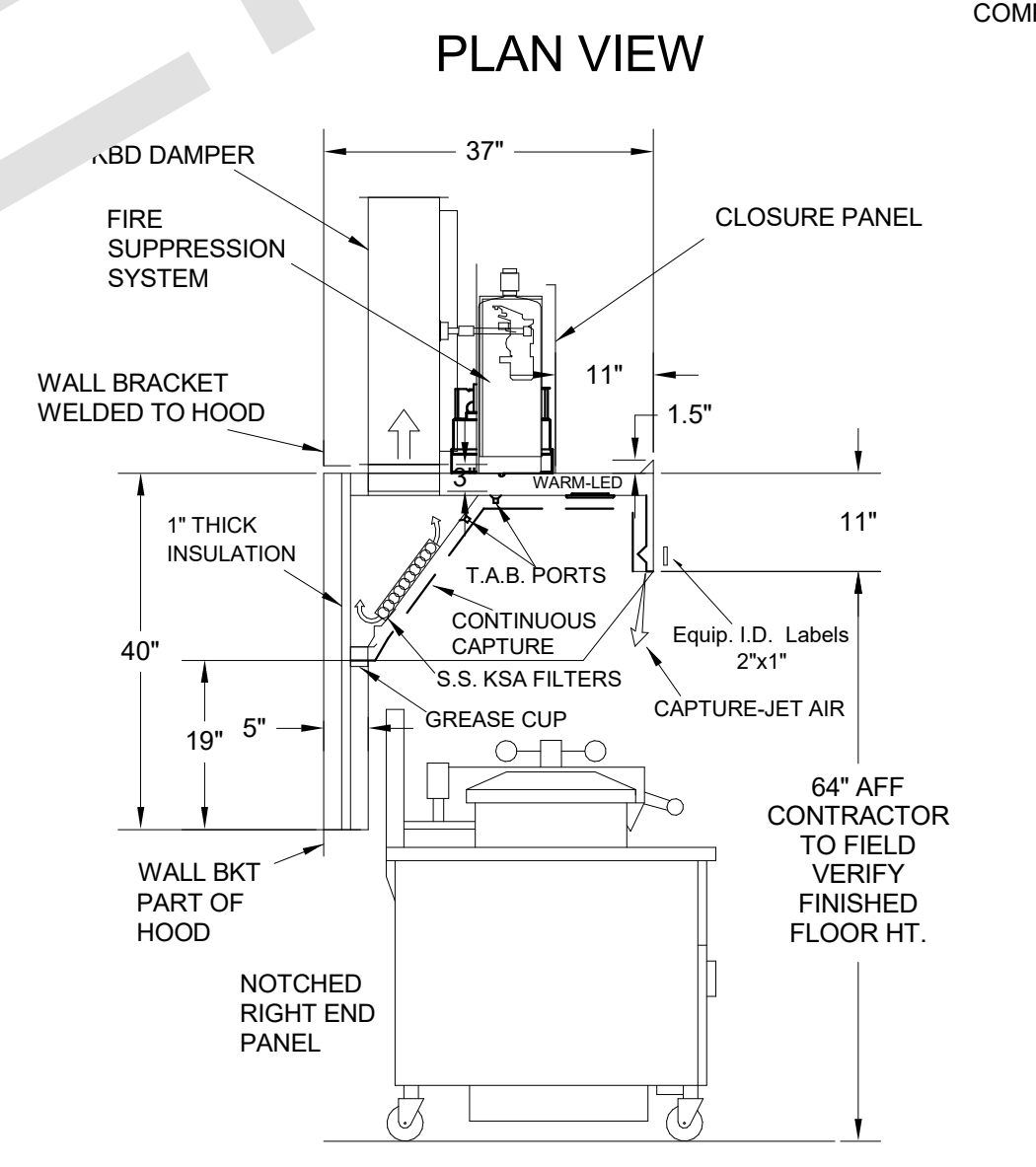
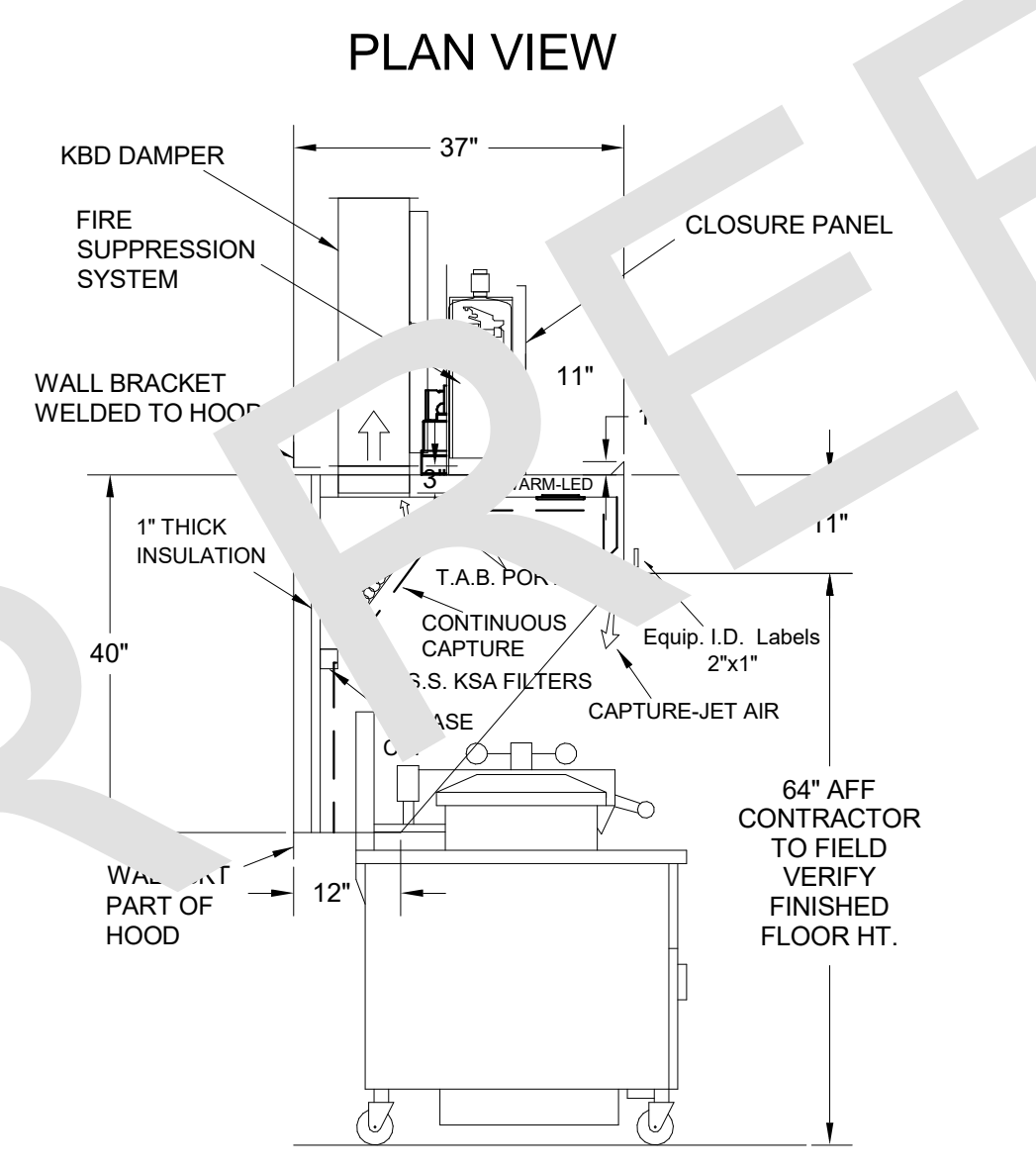
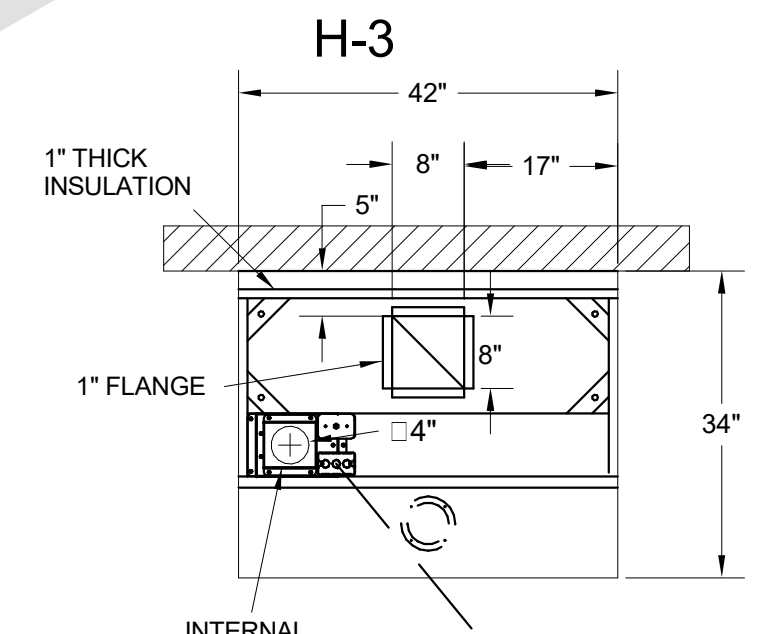
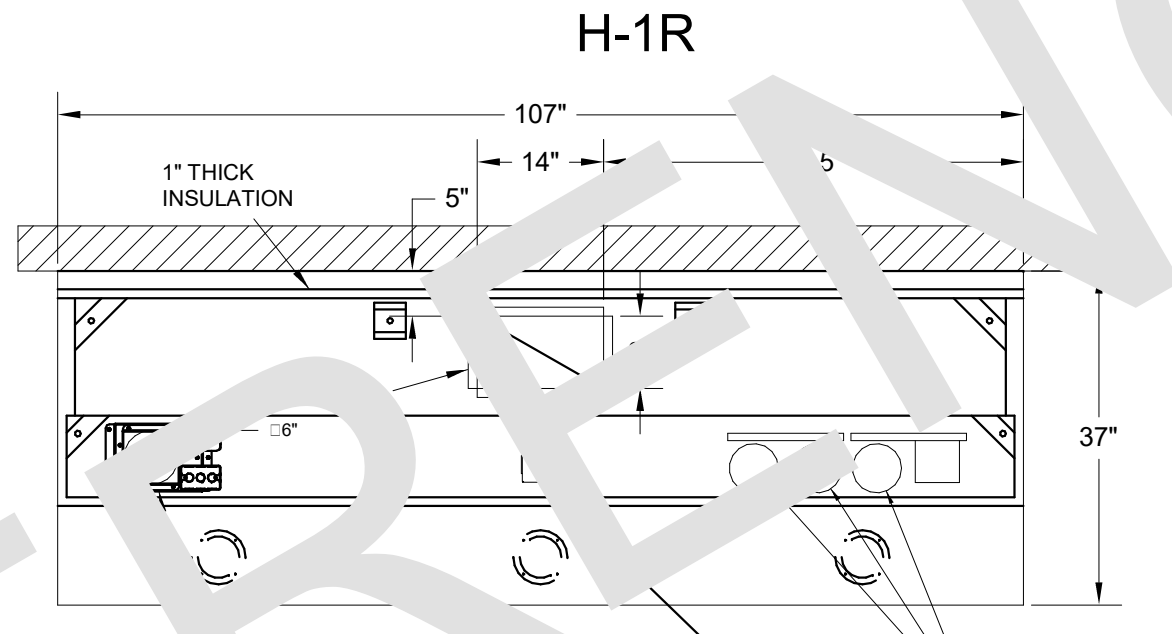
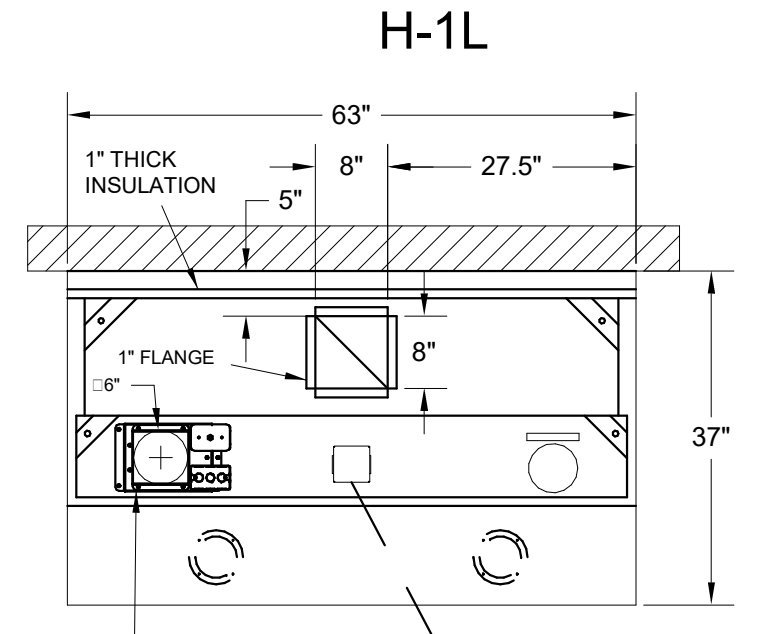
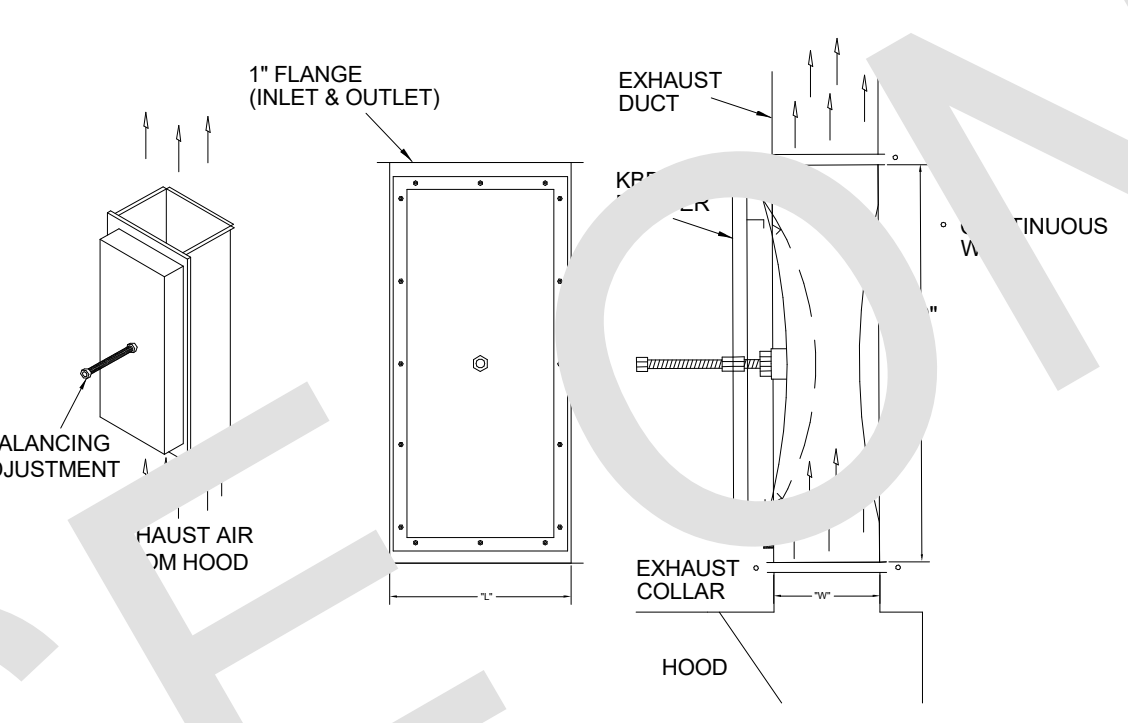
For Construction -

HOOD MODEL	HOOD NUMBER	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	
		QTY	LENGTH	WIDTH	CFM	TAB	SP	CFM	SP	FULL	HALF		QTY	CLOSURE HEIGHT	CEILING HEIGHT				HOOD WEIGHT
KVL-2-IC	H-1L	1	8"	8"	709	0.13"	0.23"	47	0.30"	3	-	2	2	TBD	ADVISE	394 LBS	*	1971	ALL 18 GA 430 S.S.
KVL-2-IC	H-1R	1	14"	8"	1204	0.13"	0.22"	80	0.30"	5	-	3	2	TBD	ADVISE	669 LBS	*	3369	
KVL-C-IC	H-3	1	8"	8"	701	0.30"	0.39"	30	0.29"	2	-	1	3	TBD	ADVISE	245 LBS	*	1291	



**MODEL:KBD  
CALIBRATED KBDs  
KITCHEN BALANCING DAMPER  
EXHAUST VOLUME DAMPER**

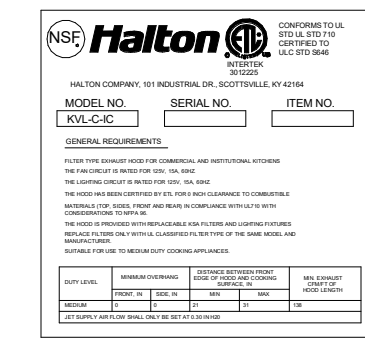
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H-1L	8"	8"	1
H-1R	14"	8"	1
H-2	8"	8"	1
H-3	8"	8"	1



- CEILING CLOSURE RECESSED 11" FROM FRONT TO CREATE SHELF
- FRONT CLOSURE PANEL WITH 43"x24" ACCESS DOOR FOR ACCESS TO CAPTURE-JET AND FIRE SUPPRESSION
- CONTINUOUS CAPTURE INTERNAL RIGHT END CUTOUT
- 3" REAR STAND-OFF TO HAVE 1" THICK INSULATION
- GREASE CUP RIGHT END

- CEILING CLOSURE RECESSED 11" FROM FRONT TO CREATE SHELF
- FRONT CLOSURE PANEL WITH 40"x24" LIFT OUT DOOR RIGHT SIDE (ACCESS TO FIRE SUPPRESSION)
- 40"x24" LIFT DOOR LEFT SIDE AT CAPTURE-JET WITH FRONT CJ INTAKE
- CONTINUOUS CAPTURE INTERNAL LEFT END CUTOUT
- 3" REAR STAND-OFF TO HAVE 1" THICK INSULATION
- NOTCHED RIGHT END PANEL
- GREASE CUP RIGHT END
- ANSUL WEIGHT = 328 LBS

- 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" REAR STAND-OFF TO HAVE 1" THICK INSULATION
- GREASE CUP RIGHT END



THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:  
1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.  
2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.  
NOTE: TO APPROVE THIS EQUIPMENT, THE MANUFACTURER MUST INCREASE ENERGY INPUTS OR EQUIPMENT POSITION MAY AFFECT EXHAUST AIR FLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECALCULATION OF EXHAUST AIR FLOW MAY BE REQUIRED.  
 REUSE AND RESUBMIT  
 APPROVED FOR FABRICATION  
 WITH CHANGES AS NOTED  
APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_



REV.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		

PROJECT: CHICK-FIL-A #2486 DEERFIELD CROSSING  
LOCATION: MASON, OH  
DRAWN BY: SHK DATE: 11.08.24  
SCALE: NOT TO SCALE

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:  
HALTON CO. (CANADA)  
1021 BREVIK PLACE  
MISSISSAUGA, ON L4W 3R7  
1-905-624-0301

HALTON CO. (USA)  
101 INDUSTRIAL DRIVE  
SCOTTSDALE, KY 42164  
1-270-237-5800

DRAWING No.: U24-884-01  
SHEET No.: H-1.1



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License No.: \_\_\_\_\_

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MASON, OH 45040

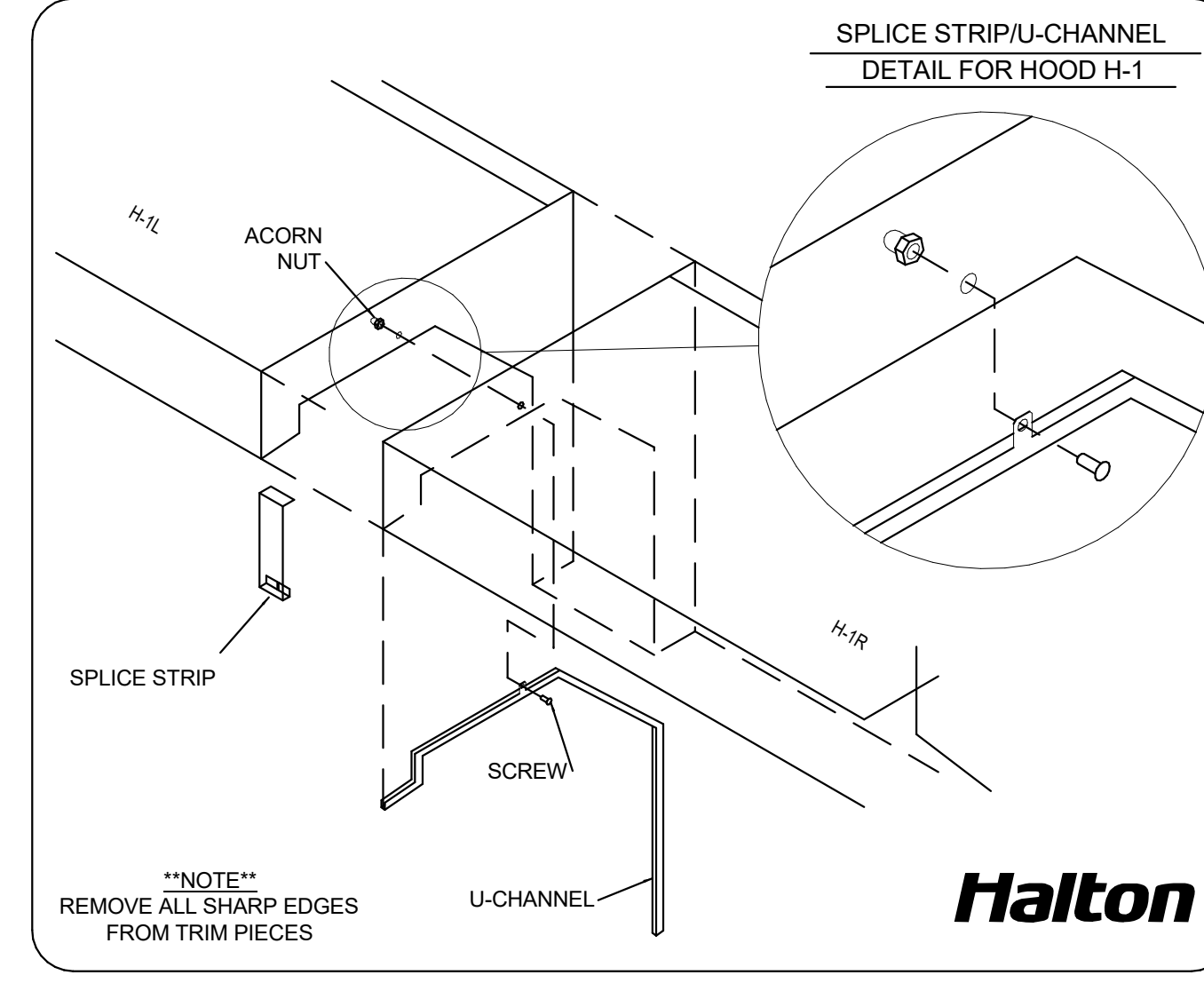
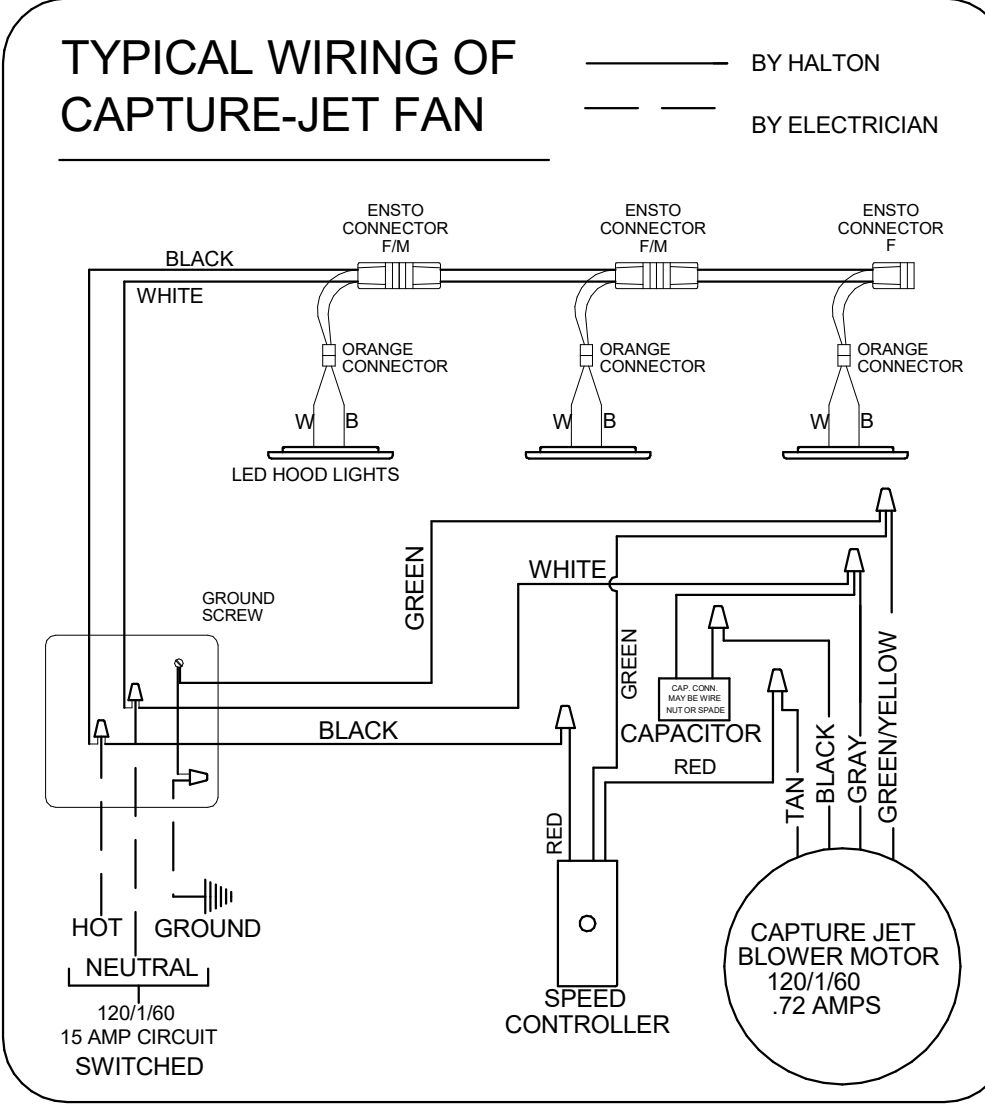
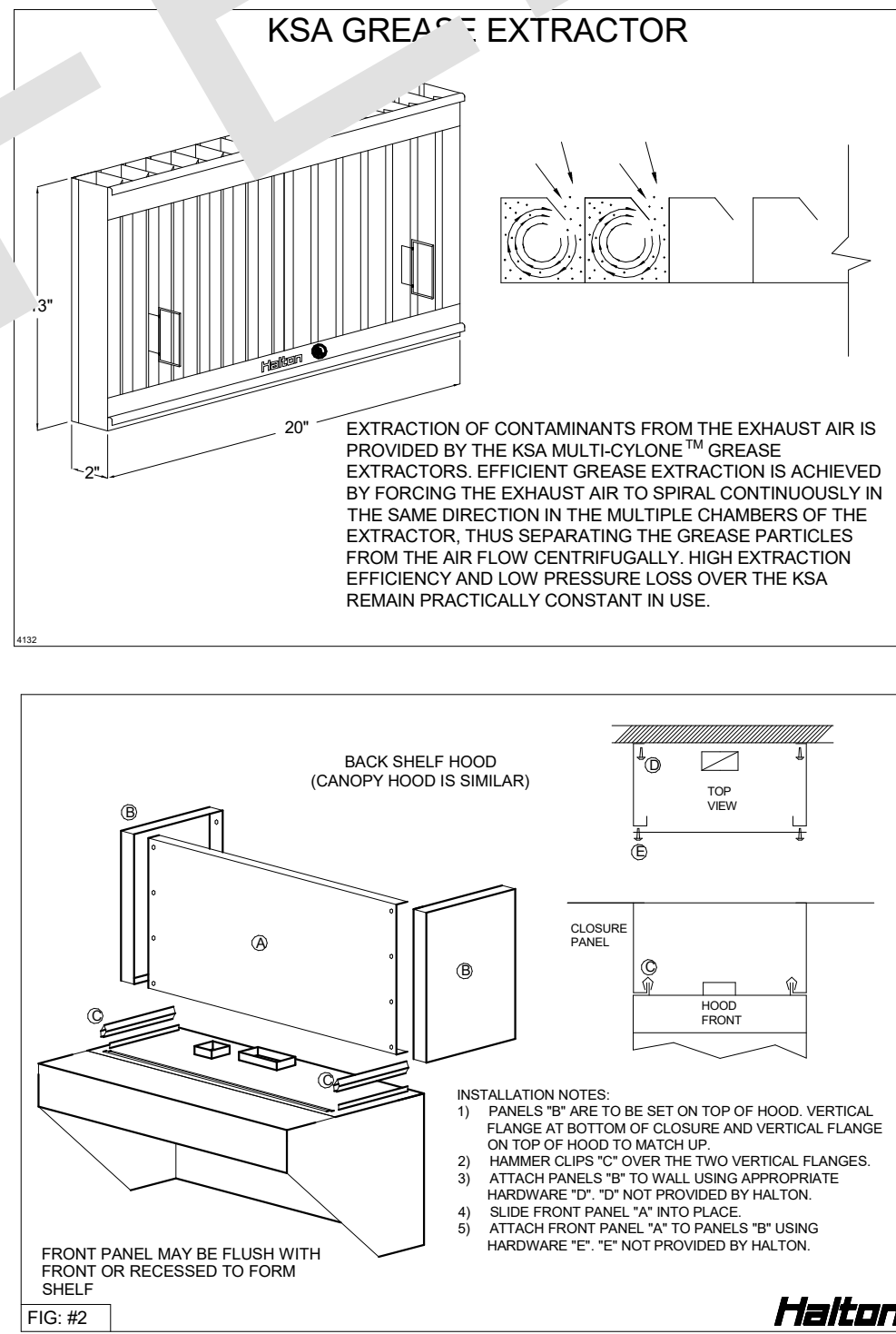
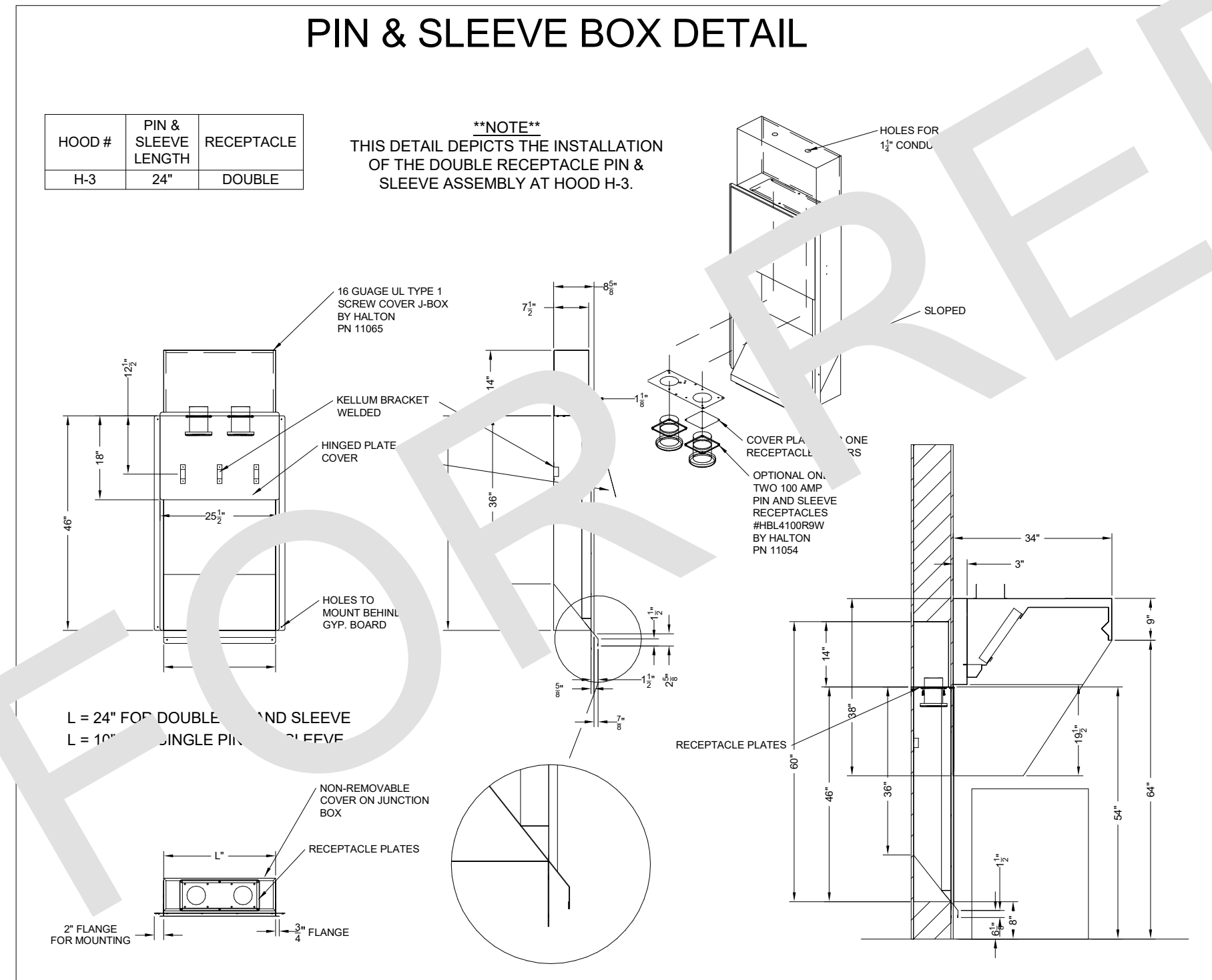
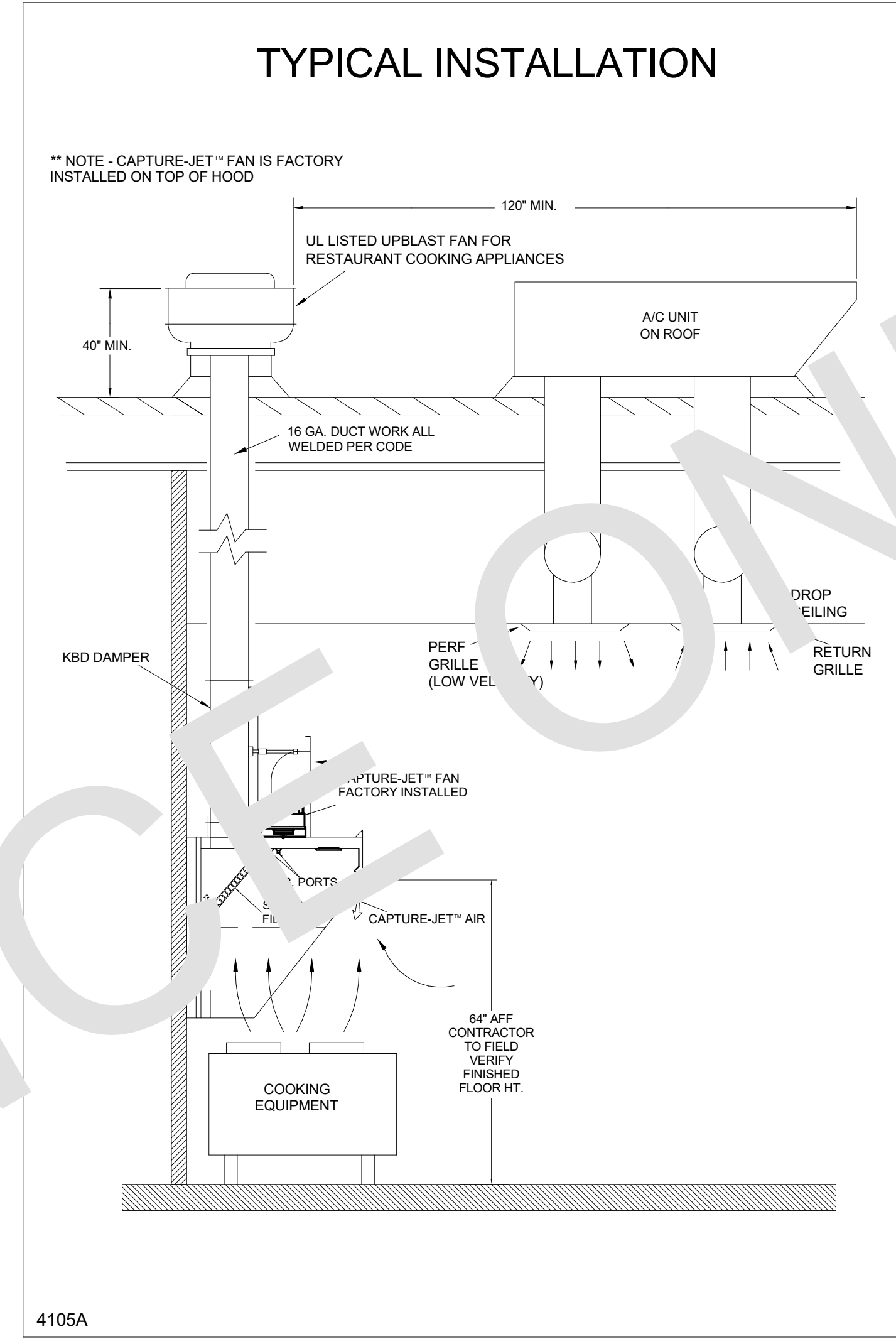
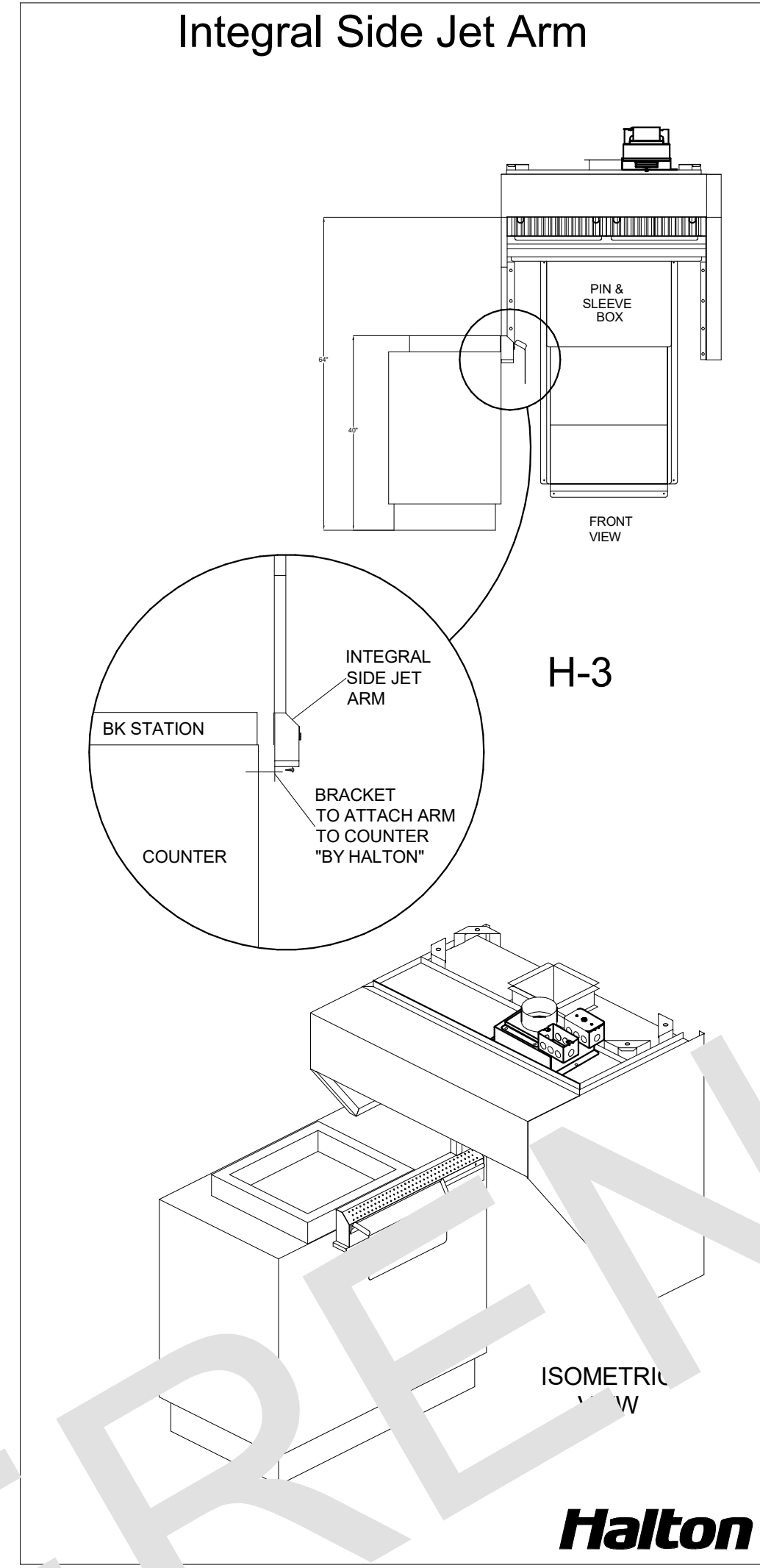
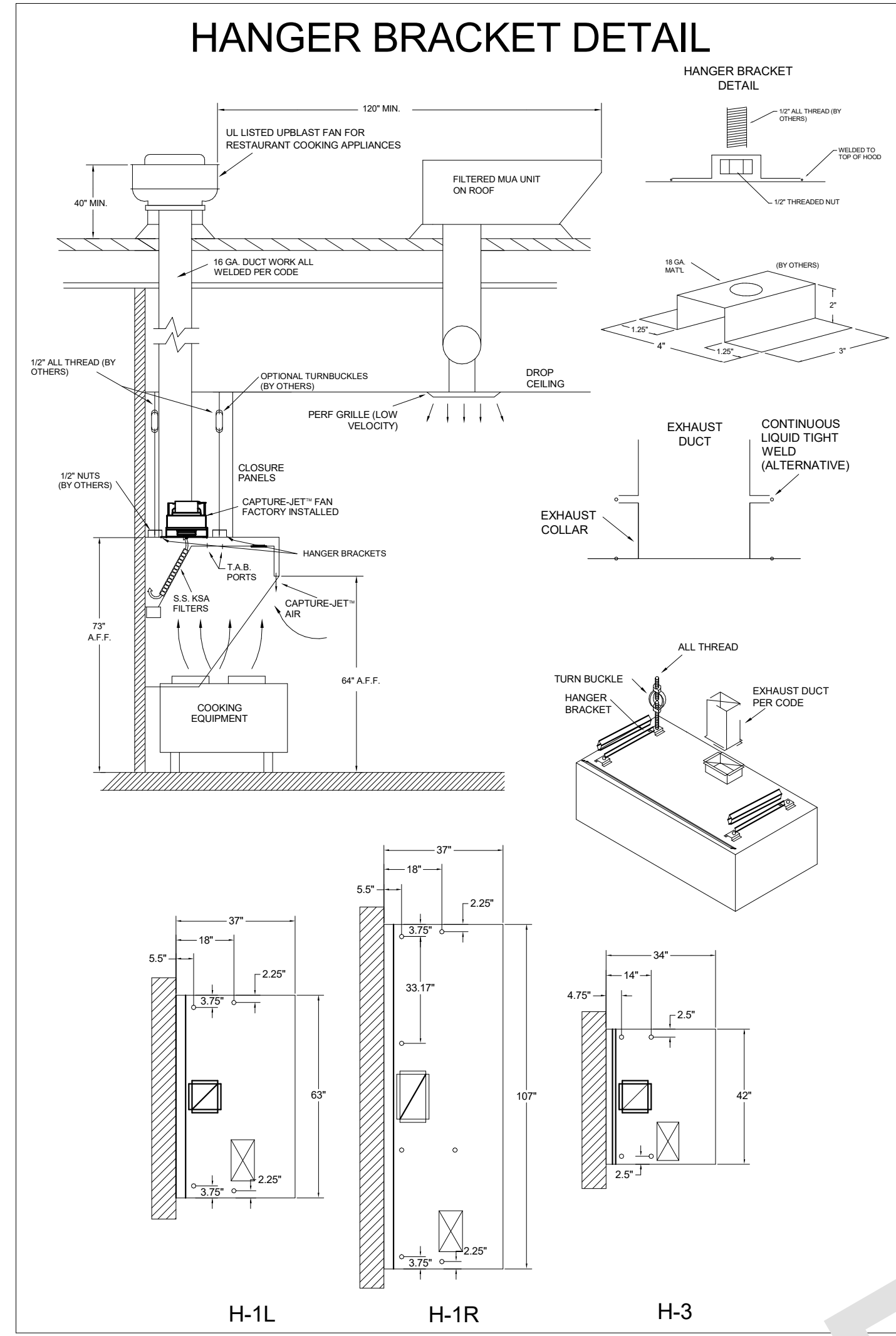
**SRI#02486**  
BUILDING TYPE / SIZE: SRI S06 C-R  
RELEASE: 22-12  
PRINTED FOR: CONST

**For Construction**

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	11/20/24	PERMIT SET
2	01/03/25	BID SET
3	04/14/25	CONST SET

CONSULTANT PROJECT # C291145  
DATE 11/20/2024  
DRAWN BY: JRH  
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SHEET: HALTON HOOD SHOP DRAWING  
SHEET NUMBER: MH-101



**NSF Halton** CONFORMS TO UL LISTED TYPE 710 STANDARD BUILT PER NFPA 96 NSF LISTED

HALTON COMPANY, 101 INDUSTRIAL DR., SCOTTSDALE, KY 42164  
MODEL NO. SERIAL NO. ITEM NO.  
KVL-2-IC

**GENERAL REQUIREMENTS**  
FILTER TYPE EXHAUST HOOD FOR COMMERCIAL AND INSTITUTIONAL KITCHENS  
THE HOOD SHOULD BE RATED FOR 100% 10A, 100%  
THE LIGHTING CREDIT IS RATED FOR 100% 10A, 100%  
THE HOOD HAS BEEN CERTIFIED BY ETL FOR HIGH CLEARANCE TO COMBUSTIBLE MATERIALS (TOP, REAR, FRONT AND REAR) IN COMPLIANCE WITH THE 2018 INTERNATIONAL FIRE CODE.  
THE HOOD IS PROVIDED WITH REMOVABLE KSA FILTERS AND LIGHTING FEATURES. MAKE SURE THEY ARE WITH CLASSIFIED FILTER TYPE OF THE SAME MAKE AND MANUFACTURER.  
SUITABLE FOR USE TO HEAVY DUTY COOKING APPLIANCES.

DUTY LEVEL	MINIMUM OVERHEAD CLEARANCE	MINIMUM OVERHEAD CLEARANCE	MINIMUM OVERHEAD CLEARANCE	MIN. EXHAUST AIRFLOW
FRONT IN	REAR IN	TOP IN	BACK IN	CFM
HEAVY	0	0	0	100
MEDIUM	0	0	0	100
MEDIUM	0	0	0	100
HEAVY	0	0	0	100
HEAVY	0	0	0	100

1 - DETACHABLE UNDERBAY DISTANCE  
JET SUPPLY AIR FLOW SHALL ONLY BE SET AT 0.8 IN HOOD

THE 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 OCCUR, A RE-CALCULATION EXHAUST AIR FLOW MAY BE REQUIRED.

APPROVED FOR FABRICATION  
 WITH NO CHANGES  WITH CHANGES AS NOTED

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

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

HALTON CO. (CANADA)  
101 INDUSTRIAL DR.  
MISSISSAUGA, ON L4W 3R7  
1-905-624-0301

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

REV. DESCRIPTION DATE BY

1. 11/08/24 DATE: 11/08/24  
DRAWN BY: SKK SCALE: NOT TO SCALE

PROJECT: CHICK-FIL-A #2486 DEERFIELD CROSSING  
LOCATION: MASON, OH  
DRAWN BY: SKK DATE: 11/08/24  
SCALE: NOT TO SCALE

**Halton**

DRAWING No.: U24-884-02  
SHEET No.: H-1.2

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

**e-ph**  
www.cphcorp.com  
A Full Service A & E Firm  
Plans Prepared By  
CPH Design, LLC  
500 West Fulton Street  
Sanford, FL 32771  
State of Ohio Licenses:  
Architectural Corp. No. 23314630  
Engineering Corp. No. 06814

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.

Name License No.:

**CHICK-FIL-A**  
**DEERFIELD CROSSING**  
5150 MERTEN DR  
MASON, OH 45040

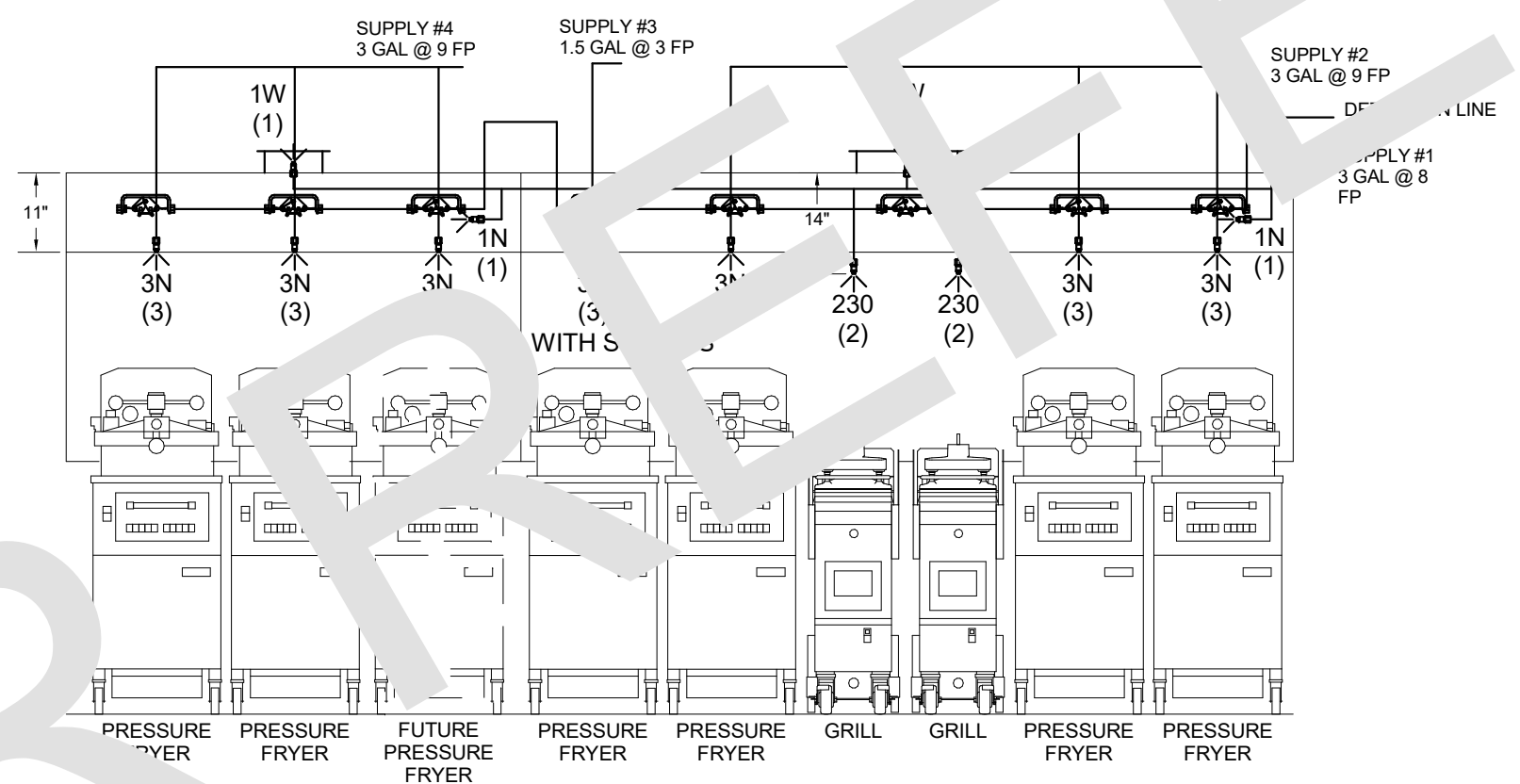
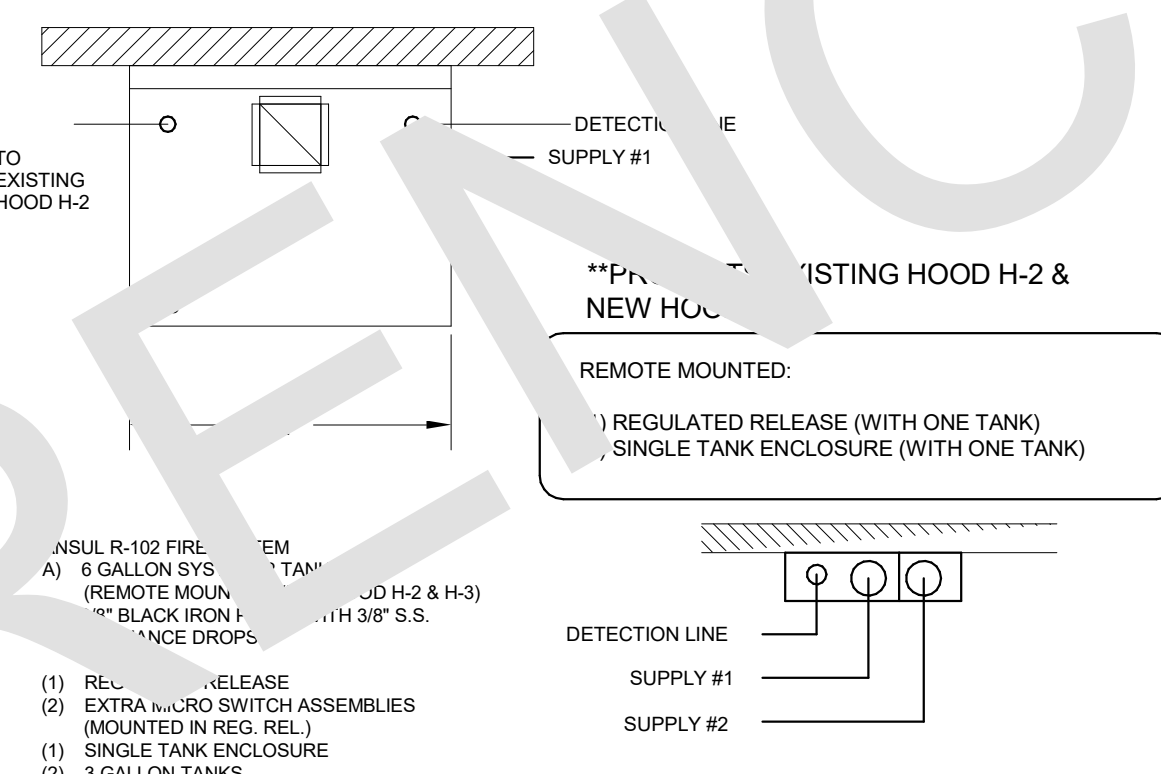
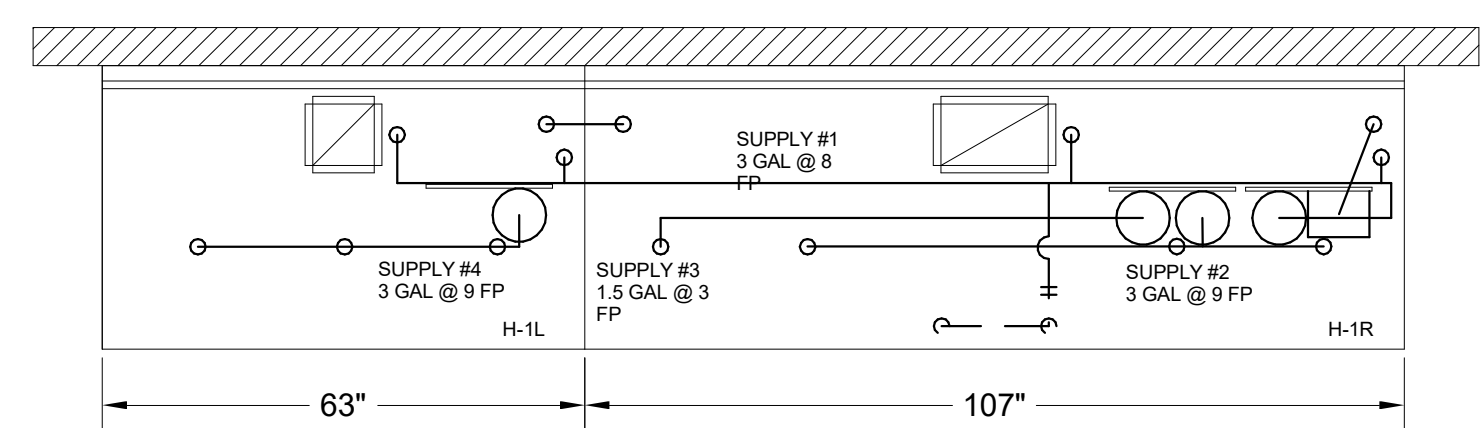
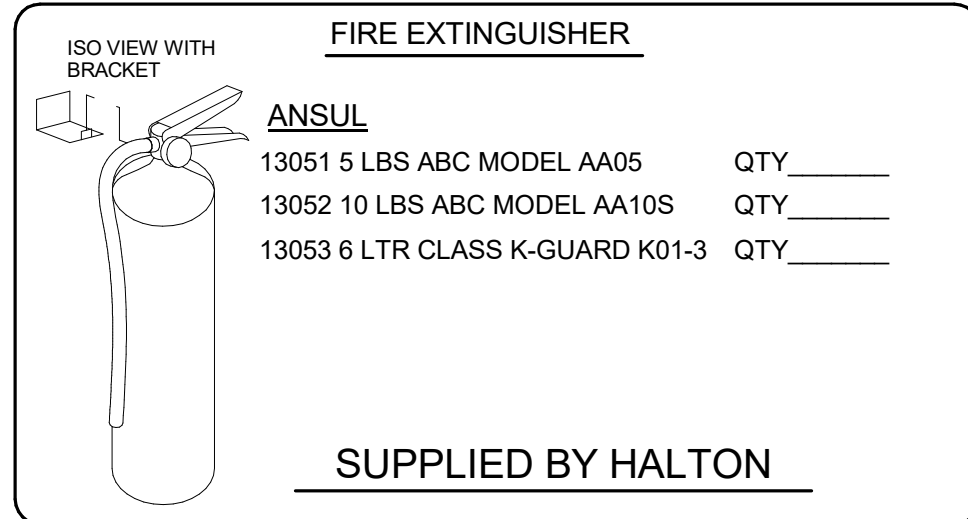
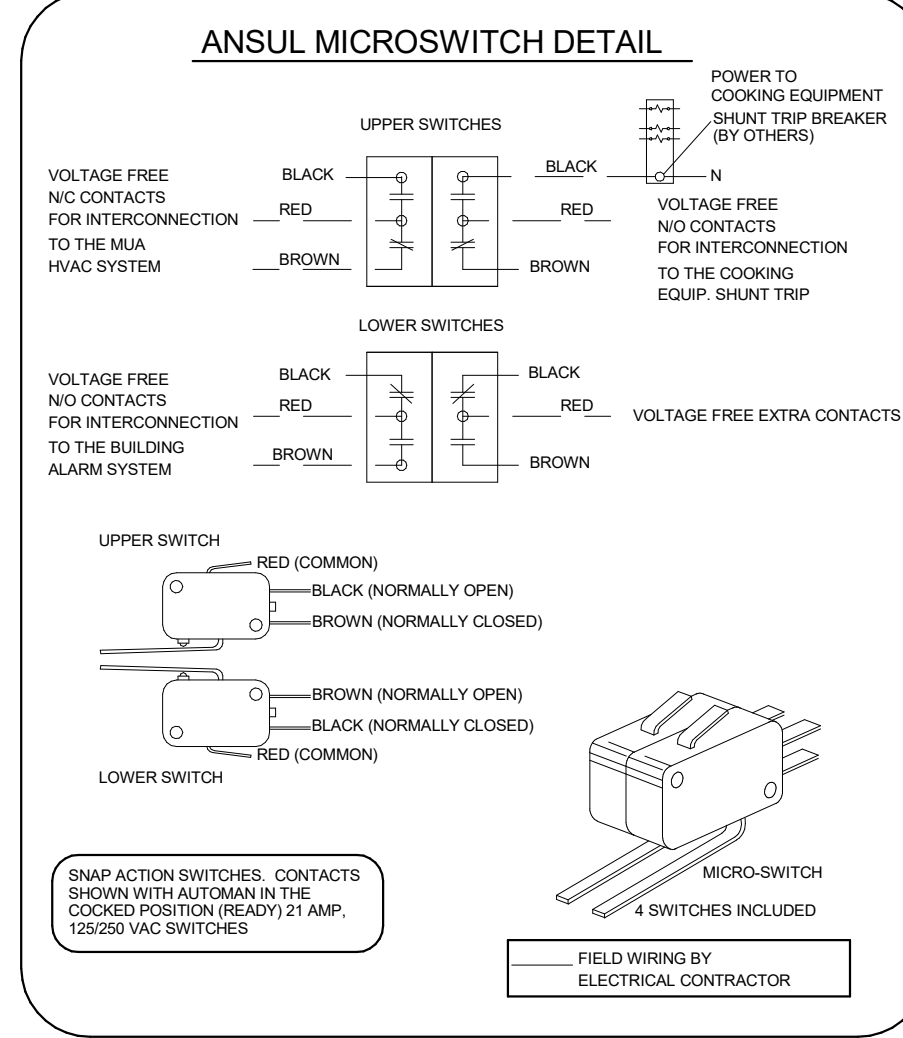
**SRI#02486**  
BUILDING TYPE / SIZE: SRI S06 C-R  
RELEASE: 22-12  
PRINTED FOR: CONST

**REVISION SCHEDULE**

NO.	DATE	DESCRIPTION
11/20/24	PERMIT SET	
01/03/25	BID SET	
04/14/25	CONST SET	

CONSULTANT PROJECT # C291145  
DATE 11/20/2024  
DRAWN BY JRH  
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**For Construction -**  
HALTON HOOD SHOP DRAWING  
SHEET NUMBER  
**MH-102**



FUSIBLE LINK RATING

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

ANSUL R-102 FIRE SYSTEM NOTES  
FOUR TANK SYSTEM MOUNTED ON TOP OF H-1L/H-1R  
MAXIMUM FLOW POINTS = 38

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

ITEM	PART #	QTY	DESCRIPTION	FLOW PTS (TOTAL)
1W	10023	3	DUCT NOZZLES	3
1N	10022	3	PLENUM NOZZLES	3
230	10025	2	APPLIANCE NOZZLES	4
3N	10021	9	APPLIANCE NOZZLES	27
TOTAL FLOW POINTS				37
QTY		DESCRIPTION		
10035	9	DETECTORS W/ FUSIBLE LINKS		
10046	1	OEM REGULATED RELEASE W/ DOUBLE POLE MICRO SWITCH		
10033	1	REGULATED RELEASE W/ DOUBLE POLE MICRO SWITCH		
10333	5	3 GALLON TANKS		
10682	1	1.5 GALLON TANK		
10047	1	DOUBLE TANK ENCLOSURE		
10044	1	SINGLE TANK ENCLOSURE		
10040	2	REMOTE PULL STATION		
10065	4	DOUBLE TANK NITROGEN CARTRIDGE		
11128	5	3 GALLON ANSULEX CONTAINER		
13459	1	1.5 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

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

- ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES
- 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 AT REGULATION EXPANSION PARTS CAN BE REQUIRED.

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  
SCOTTSDALE, KY 42164  
1-270-257-2500

HALTON CO. (CANADA)  
1021 BREVIK PLACE  
MISSISSAUGA, ON L4W 3R7  
1-905-624-5901

REV	DATE	DESCRIPTION	BY
1			
2			
3			
4			
5			
6			

PROJECT: CHICK-FIL-A #2486 DEERFIELD CROSSING

LOCATION: MASON, OH

DRAWN BY: SKK DATE: 11.08.24

SCALE: NOT TO SCALE

**Halton**

DRAWING NO.: U24-884-03

SHEET NO.: H-1.3

**Chick-fil-A**

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

**CPH**

www.cphcorp.com

A Full Service  
A & E Firm

Plans Prepared By  
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500 West Fulton Street  
Sanford, FL 32771

State of Ohio Licenses:  
Architectural Corp. No. 23314630  
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Name: \_\_\_\_\_ License No.: \_\_\_\_\_

**CHICK-FIL-A**  
DEERFIELD CROSSING

5150 MERTEN DR  
MASON, OH 45040

SRI#02486

BUILDING TYPE / SIZE: SRI S06 C-R  
RELEASE: 22-12

PRINTED FOR: CONST

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	11/20/24	PERMIT SET
2	01/03/25	BID SET
3	04/14/25	CONST SET

CONSULTANT PROJECT #: C291145  
DATE: 11/20/2024

DRAWN BY: JRH  
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SHEET: HALTON HOOD SHOP DRAWING

For Construction -

SHEET NUMBER: MH-103