

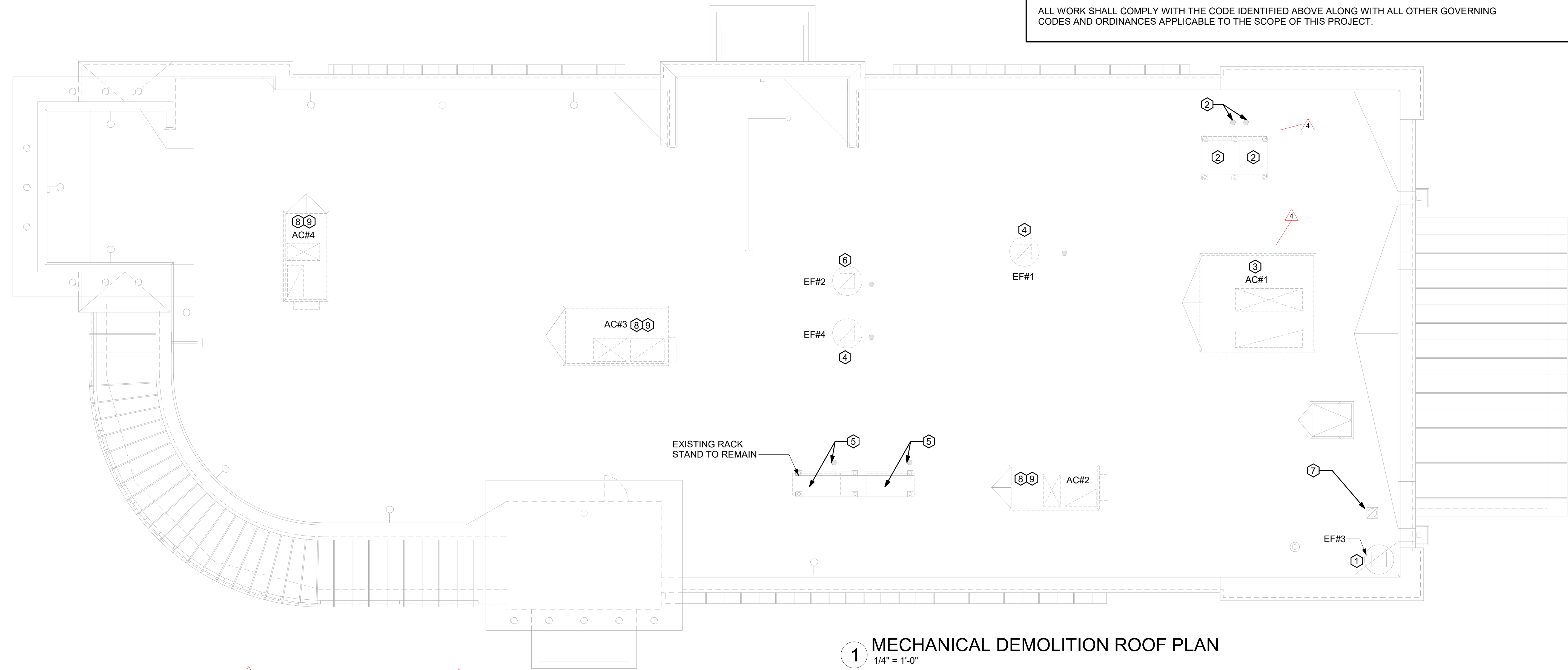
2/26/2025 11:26:34 AM Autodesk Docs://MO_02665_Des Peres FSU_2023_2_REI02665_Des Peres_Mech_Reinvestment_CPH.rvt 30-(N)-02665-M-101-MECHANICAL DEMOLITION ROOF PLAN

CODE IDENTIFICATION

BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE (IBC) (INCLUDING APPENDIX N) WITH LOCAL AMENDMENTS
MECHANICAL CODE: 2015 INTERNATIONAL MECHANICAL CODE (IMC)
ENERGY CODE: 2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) WITH LOCAL AMENDMENTS

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.



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

Site Information

Address:	11997 Manchester Rd, Saint Louis, Missouri, 63131
Elevation:	636 ft (NAVD 88)
Lat:	38.6025
Long:	-90.435495
Standard:	ASCE/SEI 7-22
Risk Category:	II
Soil Class:	Default
Seismic Data	
S _S	0.58
S ₁	0.18
S _{M6}	0.64
S _{M1}	0.36
S _{D5}	0.42
S _{D1}	0.24
T _L	12
PGA _M	0.3
V _{S30}	260
Seismic Design Category:	D
Note:	Where values of the multi-period 5%-damped MCER response spectrum are not available from the USGS Seismic Design Geodatabase, the design response spectrum shall be permitted

Provide a seismic code block on the first sheet of the Mechanical and Plumbing plans signed and sealed by a Missouri Professional Engineer:



Table 3.1
MECHANICAL AND PLUMBING EQUIPMENT COMPONENTS
EARTHQUAKE LOAD RESISTANCE

LISTING OF EQUIPMENT AND SYSTEM COMPONENTS	ANCHORAGE TO FLOORS, ROOF'S, ETC. (See Note 1 below)		SWAY BRACING (See Note 1 below)		LOCATION OF PROFESSIONALLY SEALED ANCHORAGE AND SWAY BRACING DETAILS (See Note 1 below)		COMMENTS
	Not Provided For Project	Provided For Project	Not Provided For Project	Provided For Project	ON CONSTRUCTION DOCUMENTS	SUBSEQUENT SUBMITTAL, Separate Permit & Plans (See Note 2 below)	
FIRE PROTECTION, DETECTION & ALARM EQUIPMENT & SYSTEM COMPONENTS: * See Chapter 4, Table 4.1 (List items such as: fire sprinkler system equipment & system components, smoke control & evacuation equipment & system components)	X		X		N/A	N/A	
HAZARDOUS EQUIPMENT & SYSTEM COMPONENTS: GAS PIPING ON ROOF GAS PIPING INSIDE OF BUILDING <3"					P-250 N/A	N/A	T4.4, ITEM #5 T4.4, ITEM #4.C
OTHER EQUIPMENT & SYSTEM COMPONENTS NEEDED FOR CONTINUED OPERATION OF OCCUPANCY CATEGORY IV FACILITIES OR WHOSE FAILURE COULD IMPAIR THEIR CONTINUED OPERATION * See Chapter 4, Table 4.1 (List items): OTHER GENERAL EQUIPMENT & SYSTEM COMPONENTS	X		X		N/A	N/A	
New RTUs		X	X		M-401, S-800	N/A	
New Grease Exhaust Fans		X	X		M-401, S-800	N/A	
New Condensing Units		X	X		S-801, S-200	N/A	
New Kitchen Hoods		X	X		MH-101, MH-102, S-800	N/A	
New Air Doors-Wall-mount/Suspended		X / X	X	X	M-201, S-800	N/A	Wall-mount/Suspended anchorage provided in Key Notes on M-201 and included Manufacturer Installation guidelines. Sway bracing not required for wall-mount / for suspended units detail provided on S-800.
New Ductwork		X	X		M-401	N/A	T4.4, Item#3.c
New Air Devices		X	X		M-401	N/A	T4.4, Item#1

NOTES:

- IT IS THE BASIC INTENT OF THIS CODE BLOCK TO DECLARE WHETHER OR NOT ANCHORAGE AND SWAY BRACING IS BEING PROVIDED ON THE PROJECT. IF SO, TO DECLARE WHETHER OR NOT THE DETAILS ARE SHOWN ON THE PLANS OR WILL BE SHOWN ON A SUBSEQUENT SUBMISSION. IF SEISMIC RESTRAINT OF A COMPONENT IS NOT REQUIRED BY CODE THIS SHOULD BE STATED IN COMMENTS. IF SEISMIC RESTRAINT, WHICH IS NOT REQUIRED BY CODE, IS BEING PROVIDED DUE TO OWNER/DESIGNER REQUIREMENTS THIS SHOULD ALSO BE STATED IN THE COMMENTS.
- PLANS SIGNED AND SEALED BY A MISSOURI PROFESSIONAL ENGINEER ALONG WITH A SEPARATE PERMIT APPLICATION NEED TO BE SUBMITTED TO THE COUNTY A MINIMUM OF TWO WEEKS PRIOR TO THE PLANNED INSTALLATION TO ALLOW FOR PLAN REVIEW AND DISTRIBUTION TO THE INSPECTOR. ADDITIONAL TIME MAY BE NEEDED IF SUCH SUBMISSIONS ARE DEFICIENT.

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 UNITS, RACK STAND, AND REFRIGERANT PIPE PORTALS. CONTRACTOR SHALL DEMO/REMOVE REFRIGERANT PIPING DOWN 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 THAT SHOW CLEAR SIGNS OF CONTAMINATION SHALL NOT BE REUSED UNLESS RECLAIMED IN ACCORDANCE WITH SECTION 1102.2.2 OF THE IMC-2015.
- CONTRACTOR SHALL DEMO/REMOVE AND DISCARD KITCHEN AC#1 AND ROOF CURB AS REQUIRED
- REMOVE THE EXISTING EXHAUST FAN AND CURB. OPENING TO REMAIN FOR REPLACEMENT FAN TO BE INSTALLED IN SAME LOCATION.
- CONTRACTOR SHALL DEMO/REMOVE REMOTE CONDENSING UNITS, DEMO/REMOVE REFRIGERANT PIPING ROUTED TO THE 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 THAT SHOW CLEAR SIGNS OF CONTAMINATION SHALL NOT BE REUSED UNLESS RECLAIMED IN ACCORDANCE WITH SECTION 1102.2.2 OF THE IMC-2015.
- DEMOMOVE EXHAUST FAN AND ROOF CURB. COORDINATE NEW EXHAUST FAN LOCATION WITH M-250.
- WATER HEATER IS BEING RELOCATED. COORDINATE RE-USE OF COMBUSTION AIR VENT WITH PLUMBER, FOR DIRECT VENT LOCATION. IF NOT BEING RE-USED, CAP AND SEAL AIR AND WATER TIGHT.
- CONTRACTOR SHALL DEMO/REMOVE AND DISCARD EXISTING AC#X. REFER TO M-250 FOR INFORMATION.
- PRIOR TO DEMO/REMOVAL, VERIFY IF OWNER WISHES TO RETAIN RTU FOR FUTURE USE.



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State of Missouri Licenses:
Architectural Corp. No. 2022046367
Engineering Corp. No. 2022046987

Name:
License No.:

CHICK-FIL-A
DES PERES
11997 MANCHESTER RD
DES PERES, MO 63131

SRI#02665

BUILDING TYPE / SIZE: S08 (N)
RELEASE: 22-12

PRINTED FOR CONSTRUCTION

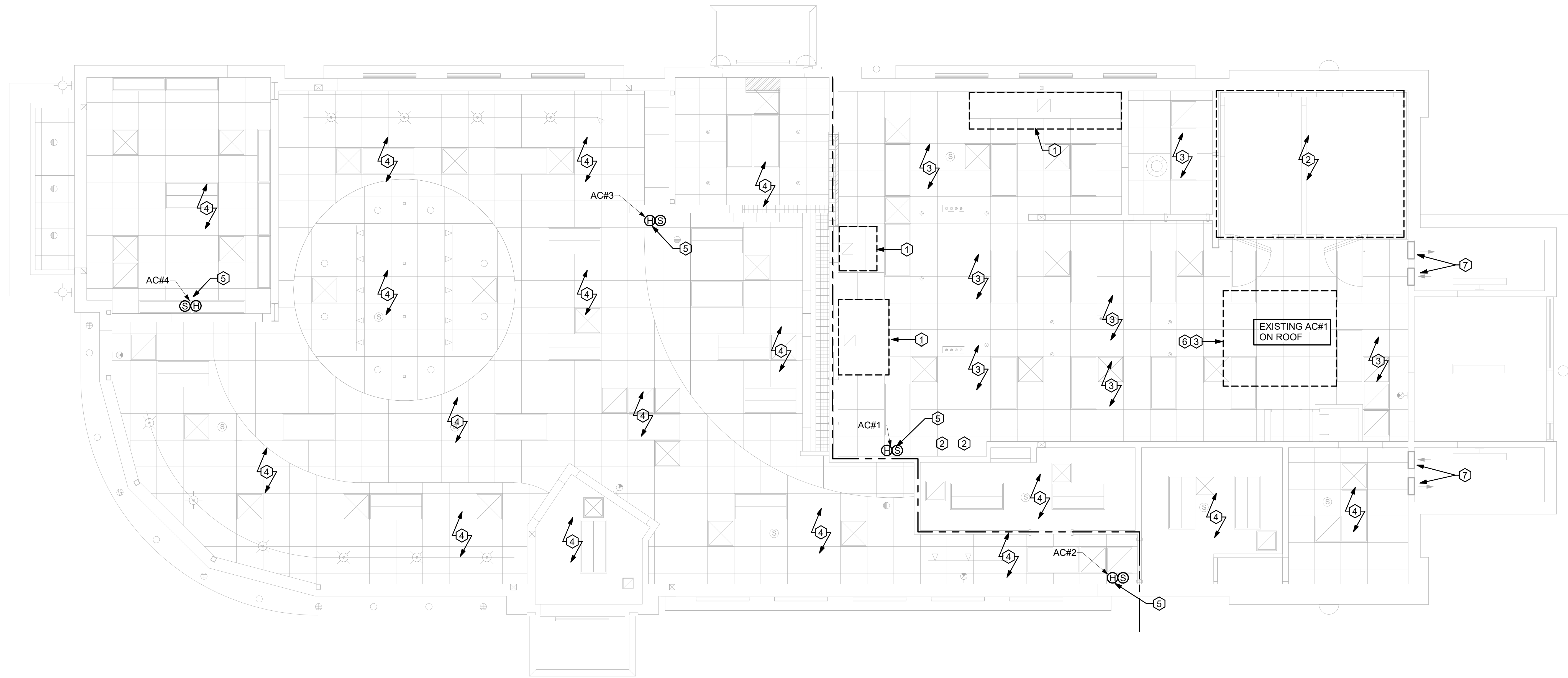
NO.	DATE	DESCRIPTION
1	10/01/2024	PERMIT REV 1
2	11/25/24	BID ADD 1
3	12/09/2024	CONSTR REV 1
4	12/17/2024	CONSTR REV 2
5	12/30/2024	CONSTR REV 3
6	02/26/2025	CONSTR REV 5

CONSULTANT PROJECT # C291127
DATE 06/21/2024

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MECHANICAL
DEMOLITION ROOF PLAN

SHEET NUMBER
M-101



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

MECHANICAL GENERAL NOTES:	KEY NOTES:
<ol style="list-style-type: none"> 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 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. 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. 	<ol style="list-style-type: none"> 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. CONTRACTOR SHALL DEMO/REMOVE AND DISCARD REFRIGERANT PIPING FROM ALL EXISTING COOLER/FREEZER 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 FMC-M 2020. 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. CONTRACTOR TO REMOVE ALL EXISTING SUPPLY AND RETURN GRILLES IN DINING ROOM, VESTIBULE, PLAY AREAS, ELECTRICAL ROOM, AND MULTIPURPOSE ROOM AS NOTED. EXISTING SUPPLY AND RETURN DUCTWORK TO REMAIN FOR RECONNECTION TO NEW SUPPLY AND RETURN GRILLES DURING RENOVATION. EXISTING SENSORS TO BE REMOVED FOR RENOVATION. CONTRACTOR TO DEMO/REMOVE EXISTING AIR DROPS, HANGERS, ALL APPURTENANCES AND WIRING BACK TO SOURCE. DEMOLISH EXISTING SIDEWALL DEVICES AND BRANCH DUCTS, BACK TO DUCT MAIN. CAP, SEAL AIRTIGHT AND INSULATE EXISTING BRANCH CONNECTION.



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 Engineering Corp. No. 2022046987

Scale:

Name
 License No.:

CHICK-FIL-A
DES PERES

11997 MANCHESTER RD
 DES PERES, MO 63131

SRI#02665

BUILDING TYPE / SIZE: S08 (N)
 RELEASE: 22-12
 PRINTED FOR:

CONSTRUCTION

NO.	DATE	DESCRIPTION
1	06/21/2024	PERMIT
1	10/01/2024	BID SET
2	11/25/24	BID ADD 1
2	11/25/24	CONSTRUCTION SET

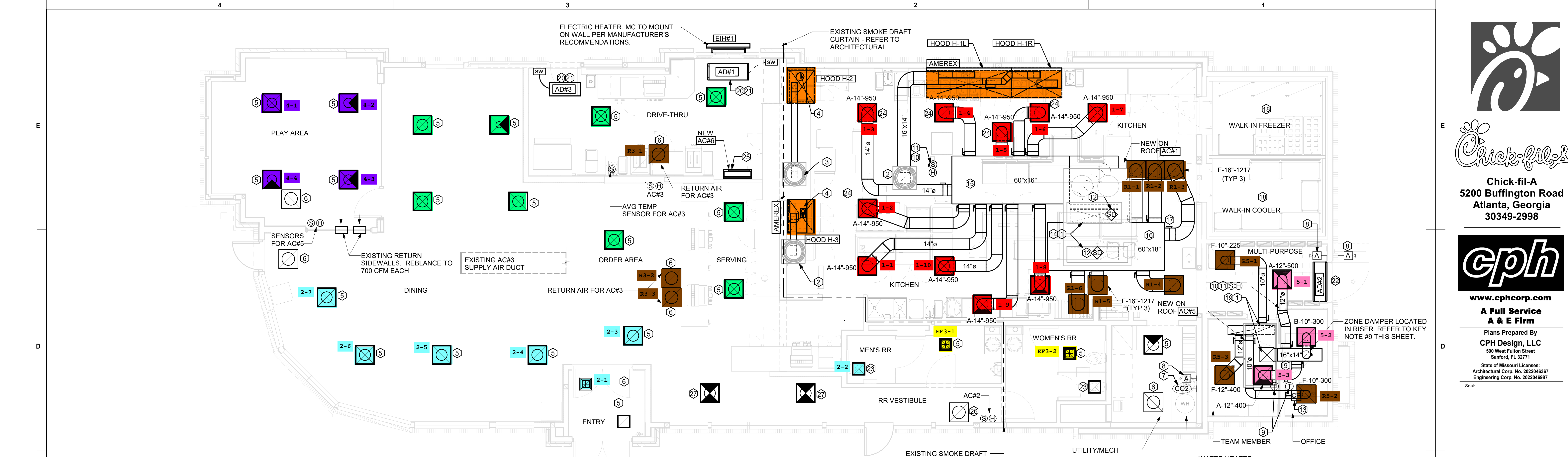
CONSULTANT PROJECT # C291127
 DATE 06/21/2024

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MECHANICAL DEMOLITION FLOOR PLAN
 SHEET NUMBER

M-102

For Construction



FLEX DUCT SIZE			
RANGE	SIZE	RANGE	SIZE
0-80 CFM	6" DIA.	511-750 CFM	14" DIA.
81-170 CFM	8" DIA.	701-1100 CFM	16" DIA.
171-300 CFM	10" DIA.	1101-1450 CFM	18" DIA.
301-510 CFM	12" DIA.	1451-1900 CFM	20" DIA.

- NOTES:**
- BASED ON WIRE HELIX FLEXIBLE DUCT, TYPE FLEX-MASTER
 - UL LISTING: U-181 / ETL CLASS 1 AIR DUCT
 - STANDARD CODE: NFPA 90A AND 90B, BOCA, SBCC HUD/HFI, MIN PROPERTY STD.
 - FLAME SPREAD.....LESS THAN 25
 - SMOKE DEVELOP.....LESS THAN 50
 - MIN R8.0 FOR ATTIC UNCONDITION SPACE.
 - MIN R8.0 FOR RETURN CONDITIONED 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 ETL 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).

1 MECHANICAL FLOOR PLAN

1/4" = 1'-0"

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 ICE MAKER AND RECHARGE EXISTING ICE MAKERS AFTER KITCHEN TILE IS INSTALLED.

LEGEND			
A-12-400	TYPE - NECK SIZE - CFM	EF#1	EXHAUST FAN #1 (TYP.)
(S)	REMOTE TEMPERATURE SENSOR	(△)	PULL STATION
(H)	HUMIDITY SENSOR	(□)	RETURN/EXHAUST
(A-1)	STROBE AUDIO/VISUAL 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

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 O&A 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 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 SHEET M-401 FOR FLEXIBLE DUCT INSTALLATION REQUIREMENTS.
- 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.
- 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.

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 A 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 ANY NEW OR EXISTING OUTSIDE AIR INTAKE. COORDINATE THE EXACT ELECTRICAL CONTROL 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.
- 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 THE EXACT LOCATION IN THE FIELD WITH EXISTING EQUIPMENT AND PIPING. SEE THE DETAIL ON M-401 FOR THE ORIENTATION OF THE HINGE SIDE OF THE FAN ON THE 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 ANALOX-AK60. 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 ROUND ZONE DAMPER WITH MODEL T-312CE AUTOMATIC CHANGE-OVER THERMOSTAT. MOUNT CENTER OF T-STAT AT 4'-0" AFF. POWER OPEN/Spring CLOSE. ADJUST MECHANICAL LIMIT FOR 75 CFM MINIMUM AIRFLOW. PROVIDE 120V/24V, 50 VA TRANSFORMER TO SERVE ZONE DAMPER ACTUATOR AND THERMOSTAT, POWERED FROM 120V POWER CIRCUIT THAT REMAINS LIVE 24/7. PROVIDE ALL NECESSARY WIRING AND COMPONENTS FOR CONTROL AND POWER CONNECTIONS PER MANUFACTURER'S IOM. THERE IS NO INTERLOCKING/MONITORING FROM THE S.E.C. CFA-500 PANEL. SEE WIRING DIAGRAMS ON M-501. CHICK-FIL-A HAS A NATIONAL ACCOUNT W/ WITH TOM BARROW COMPANY FOR THE ZONE DAMPER. THE MECHANICAL CONTRACTOR SHALL PURCHASE THE ZONE DAMPER DIRECTLY FROM TOM BARROW COMPANY. CONTACT: MRS. SCOTT GEORGE AT 404-351-1010. FOR PRICING AND AVAILABILITY. ZONE DAMPERS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.
- MOUNT NEW/EXISTING TRANE HUMIDITY SENSOR ON WALL ABOVE SPACE TEMP SENSOR AND ROUTE WIRING TO UNIT ON ROOF. PROVIDE NEW CONTROL WIRE TO ACCOMMODATE LOCATION, DO NOT SPLICE WIRE.
- MOUNT NEW REMOTE TEMPERATURE SENSOR ON WALL AT 60" AFF AND ROUTE NEW WIRING BACK TO TEMP CONTROL PANEL. FOR SENSOR SERVING KITCHEN AC#1, COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT PRIOR TO BID AND CONSTRUCTION.
- PROVIDE A TRANE FACTORY INSTALLED SUPPLY SIDE & RETURN SIDE SMOKE DETECTORS. REFER TO SCHEDULE ON SHEET M-402 AND TRANE 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. COORDINATE WITH ELECTRICAL DRAWING E2.2 FOR EXACT LOCATION. FOR MORE INFORMATION CONTACT: STRONG SYSTEMS INTERNATIONAL, INC. CHRIS VERCH (770) 729-1199 OR (770) 462-2501.
- (2) 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. BRANCH TAKE-OFFS ARE NOT TO BE LOCATED CLOSER THAN 3'-0" FROM ANY OFFSET OR ELBOW, INCLUDING THE SA DROP FROM THE CURB.
- 60"x18" RETURN AIR PLENUM AS CLOSE AS POSSIBLE TO BOTTOM OF ROOF JOIST.
- 16"Ø SIDE TAP RETURN AIR PLENUM WITH SPIN-IN FITTINGS AND DAMPER. REFER TO THE 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 16"x14" AND 29"x11" RETURN AIR DROP FROM NEW AC#6 UNIT.
- AIR CURTAIN (AD#1) MOUNTED WITHIN CEILING CENTERED ABOVE DRIVE THRU DOOR 6" 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 DIVERTER CONE ABOVE DOOR FOR (AD#1). REFER TO SHEET M-401 FOR INFORMATION. ATTACH AIR CURTAIN TO STRUCTURE USING 3/8" ALL THREAD SUPPORTS.

- FIELD WIRE FACTORY PROVIDED CONTROLS. SEE KITCHEN ELEVATIONS FOR EXACT LOCATION OF SWITCH. MC IS RESPONSIBLE FOR ALL FINAL CONNECTIONS FOR LOW VOLTAGE INTERLOCK WITH TORMAX DOOR. REFER TO SHEET M-501 FOR INFORMATION.
- AIR DOOR MOUNTED OVER DOOR HEADER AT 7'-4" AFF TO BOTTOM OF UNIT. PROVIDE BLOCKING IN WALL BEHIND AIR CURTAIN. USE FACTORY PRE-PUNCHED MOUNTING HOLES ON BACK SIDE OF AIR CURTAIN ONLY. ATTACH AIR CURTAIN TO WALL USING 3/8" LAG BOLTS. LENGTH AS REQUIRED TO FULLY PENETRATE BLOCKING. LOCATE MAGNETIC CONTACT TYPE MICROSWITCH IN DOOR FRAME ON STRIKE SIDE.
- NEW EXHAUST AIR DIFFUSERS. CONTRACTOR SHALL EXTEND EXHAUST AIR DEVICE AS REQUIRED. CFM IS EXISTING TO REMAIN.
- MECHANICAL CONTRACTOR TO ADJUST PATTERN DEFLECTORS TO THROW STRAIGHT DOWN.
- NEW SPLIT SYSTEM AIR HANDLER. COORDINATE LOCATION WITH KITCHEN EQUIPMENT CONTRACTOR AND ELECTRICAL CONTRACTOR.
- NEW RETURN AIR DEVICE TO REMAIN. BALANCE TO 870 CFM.
- NEW SUPPLY AIR DEVICE. THE CONTRACTOR SHALL EXTEND THE EXISTING SUPPLY AIR DUCT AS REQUIRED. BALANCE TO 455 CFM.



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CPH Design, LLC
 500 West Fulton Street
 Sanford, FL 32771
 State of Missouri Licenses:
 Architectural Corp. No. 2022046367
 Engineering Corp. No. 2022046987

Name License No.:

CHICK-FIL-A
DES PERES
 11997 MANCHESTER RD
 DES PERES, MO 63131

SRI#02665
 BUILDING TYPE / SIZE: S08 (N)
 RELEASE: 22-12

CONSTRUCTION REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
1	10/01/2024	PERMIT
1	10/01/2024	PERMIT REV 1
1	10/01/2024	BID SET
2	11/25/24	BID ADD 1
2	11/25/24	BID ADD 2
2	11/25/24	CONSTRUCTION SET

For Construction

CONSULTANT PROJECT # C291127
 DATE 06/21/2024
 DRAWN BY JRH
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MECHANICAL FLOOR PLAN
 SHEET NUMBER
M-201



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5200 Buffington Road
Atlanta, Georgia
30349-2998



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A & E Firm**

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1	10/01/2024	BID SET
2	11/25/24	BID ADD 1
6	02/26/2025	CONSTR REV 5

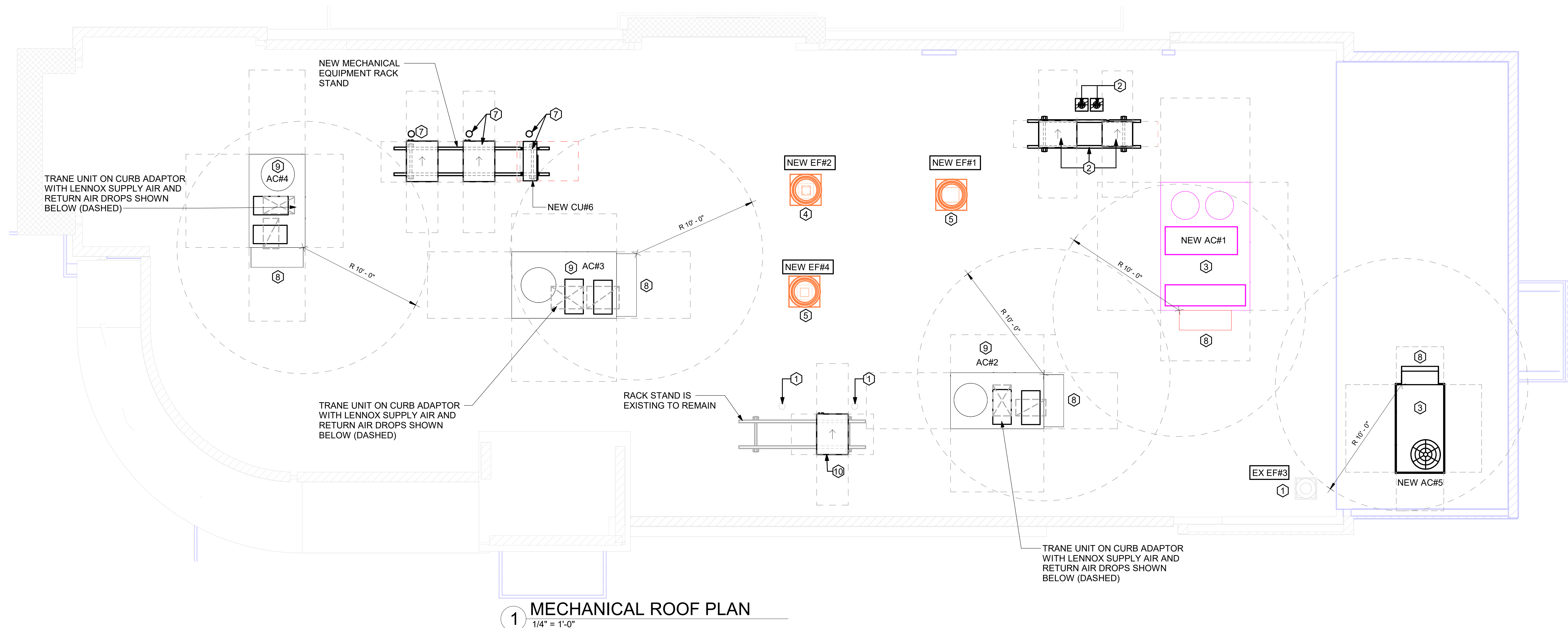
CONSULTANT PROJECT # C291127
DATE 06/21/2024

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MECHANICAL ROOF PLAN

SHEET NUMBER

M-250



MECHANICAL GENERAL NOTES:

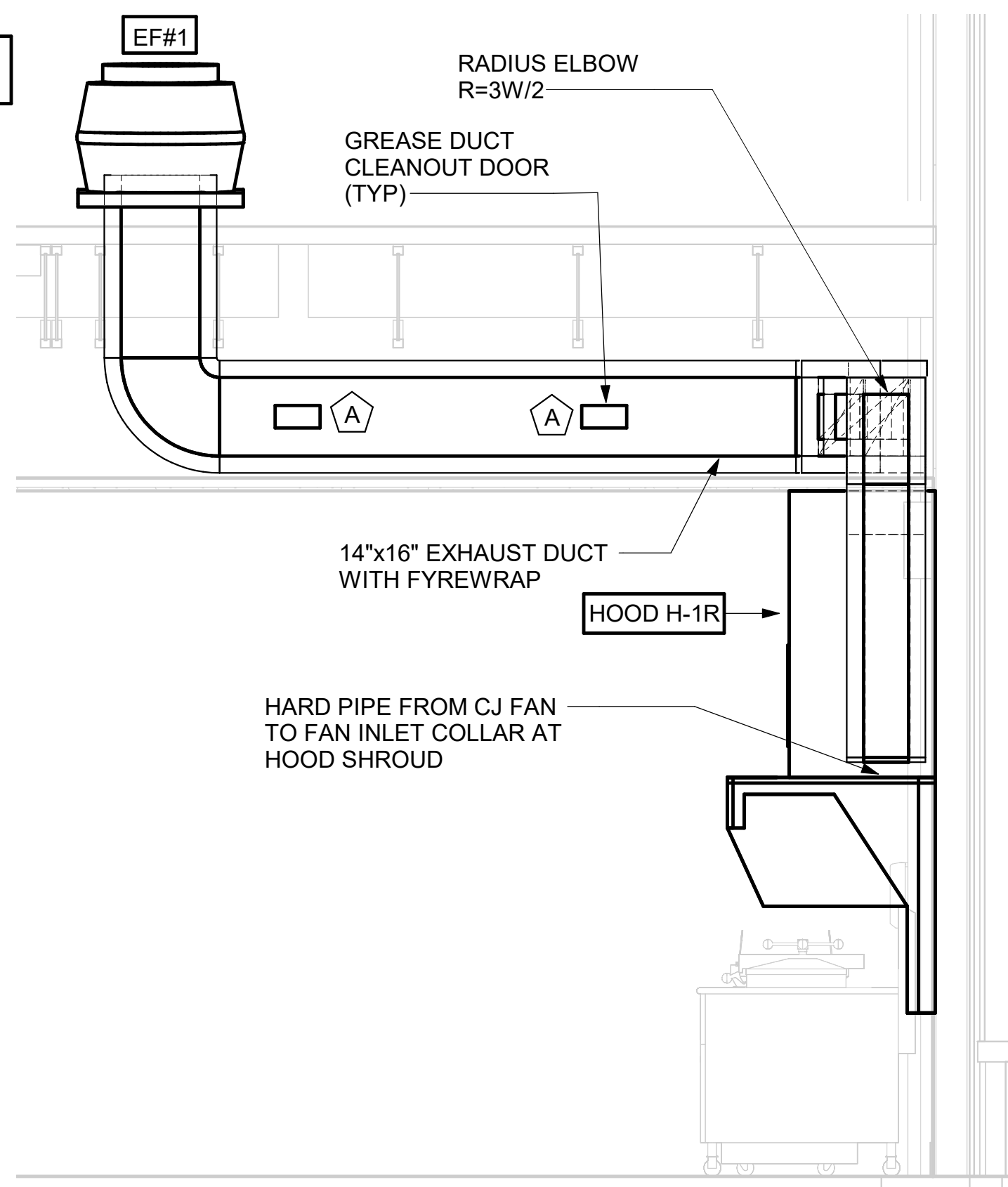
- ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
- ALL DIMENSIONS, CLEARANCES AND TOLERANCES SHALL BE VERIFIED PRIOR TO INSTALLATION.
- ALL MATERIALS, FIXTURES AND EQUIPMENT USED SHALL BE IN ACCORDANCE WITH CHICK-FIL-A SPECIFICATIONS. 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:

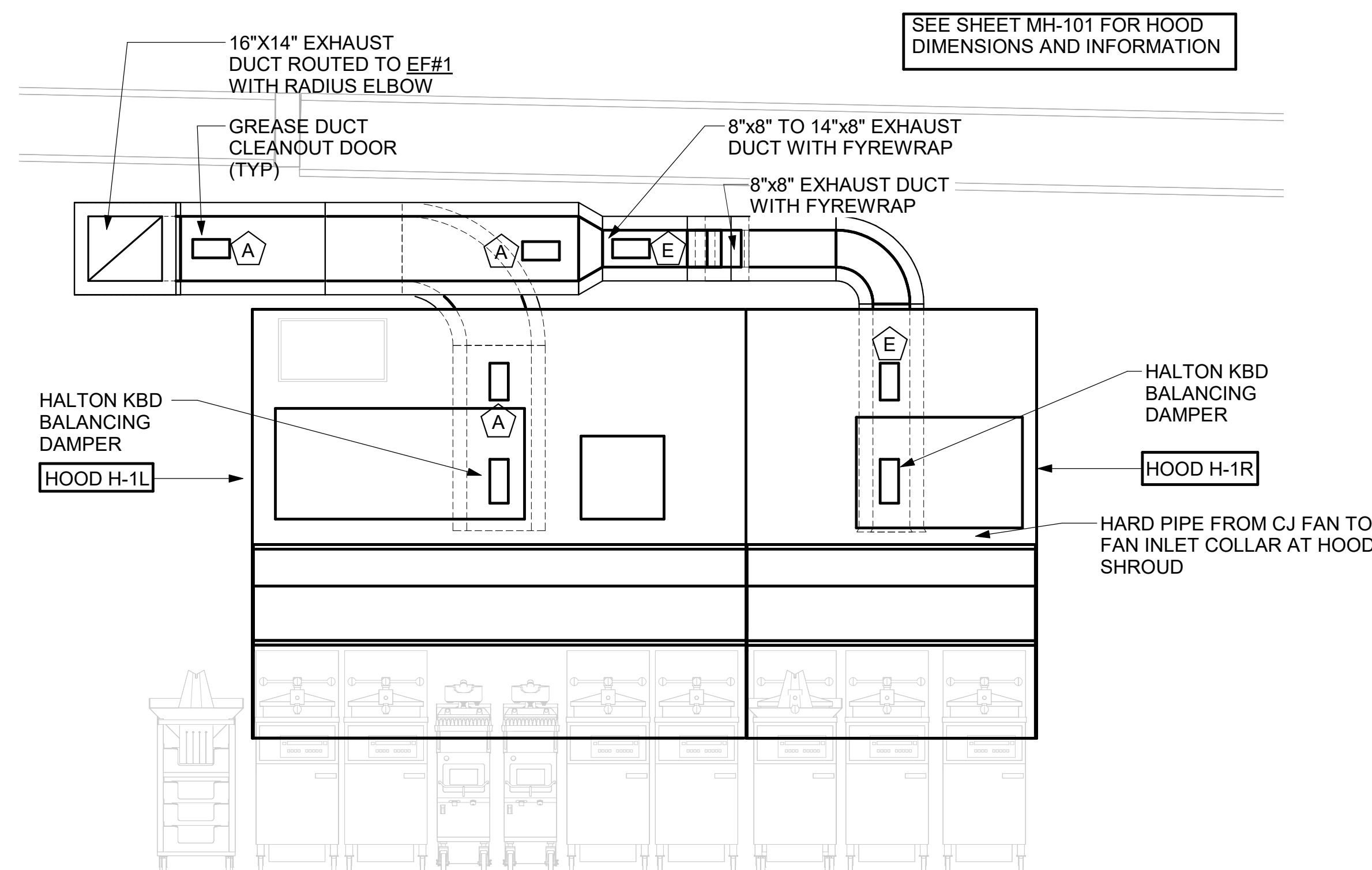
- EXISTING EQUIPMENT TO REMAIN.
- CONTRACTOR TO INSTALL NEW EQUIPMENT RACK STAND, NEW FREEZER/COOLER CONDENSING UNIT, NEW INSULATED REFRIGERANT PIPING DOWN THROUGH NEW REFRIGERANT GOOSENECK TO NEW FREEZER/COOLER EVAPORATOR BELOW.
- CONTRACTOR SHALL INSTALL NEW TRANE AC#1 AND AC#5 WITH NEW ROOF CURB. CONTRACTOR SHALL COORDINATE ROOF PENETRATION OPENINGS. REFER TO RTU SCHEDULE FOR FURTHER INFORMATION.
- CONTRACTOR SHALL INSTALL NEW GREASE EXHAUST FAN PER HOOD 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.
- CONTRACTOR SHALL INSTALL NEW GREASE EXHAUST FAN PER EXHAUST FAN SCHEDULE ON MECHANICAL SHEET M-402 THRU EXISTING EXHAUST FAN OPENING. PROVIDE A NEW CURB IN THE LOCATION SHOWN.
- NOTE NOT USED.
- CONTRACTOR TO INSTALL (2) NEW REMOTE CONDENSORS AND (1) NEW SPLIT-SYSTEM CONDENSING UNIT, NEW REFRIGERATION RACK STAND, AND NEW REFRIGERANT PORTAL FOR NEW DRIVE-THRU SPLIT SYSTEM AND DRIVE-THRU KITCHEN ICE MACHINES. ROUTE NEW REFRIGERANT PIPING DOWN TO NEW THROUGH NEW REFRIGERANT GOOSENECKS. COORDINATE WITH STRUCTURAL FOR EXACT LOCATION AND INSTALLATION REQUIREMENTS.
- OUTSIDE AIR INTAKE HOOD. ENSURE THAT HOOD INTAKE IS A MINIMUM OF 10'-0" FROM ANY EXHAUST OR PLUMBING VENT DISCHARGE.
- REPLACE EXISTING LENNOX UNITS WITH NEW TRANE UNITS. ENSURE THAT HOOD INTAKE IS A MINIMUM OF 10'-0" FROM ANY EXHAUST OR PLUMBING VENT DISCHARGE. PROVIDE CURB ADAPTER WITH RTU. REFER TO RTU SCHEDULE ON M-401 FOR MORE INFORMATION. REFER TO STRUCTURAL FOR ROOF ANCHORAGE.
- CONTRACTOR TO INSTALL NEW CONDENSING UNIT ON EXISTING REFRIGERATION RACK STAND. ROUTE AND CONNECT NEW REFRIGERANT PIPING THROUGH EXISTING REFRIGERANT GOOSENECK TO KITCHEN ICE MAKERS BELOW. CONTRACTOR TO CHARGE REFRIGERANT SYSTEM. REFER TO KEYNOTE #2 ON SHEET M-101.

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30-(N)-02665-M-301-HOOD DETAILS AND SCHEDULES

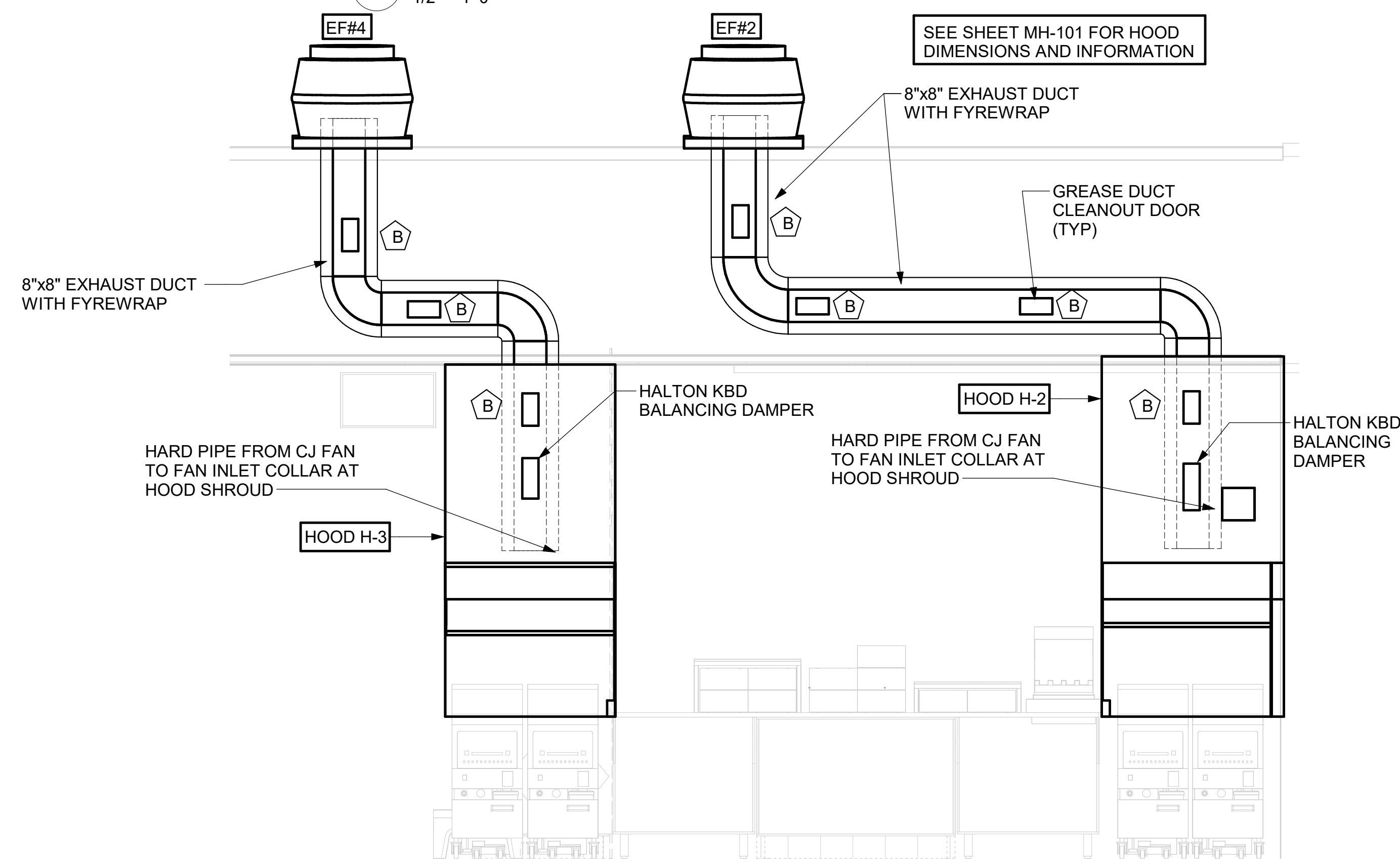
SEE SHEET MH-101 FOR HOOD DIMENSIONS AND INFORMATION



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



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



3 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 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 FYREWAP. INSULATION ON ACCESS DOORS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTALLATION RECOMMENDATIONS. UNIFRAX FYREWAP 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 H-1L	1204	0.13	80 @ 0.30"	BACK-SHELF	14"x8"	107	37	38	HALTON	KVL-2-IC	1,2,3,4,5,7,8,9,12,16,21,22
NEW HOOD H-1R	709	0.13	47 @ 0.30"	BACK-SHELF	8"x8"	63	37	38	HALTON	KVL-2-IC	1,2,3,5,7,8,9,12,21,23
NEW HOOD H-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 H-3	701	0.30	30 @ 0.29"	BACK-SHELF	8"x8"	42	34	38	HALTON	KVL-C-IC	1,2,3,6,7,8,9,10,12,13,15,17,21

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 THRU MH-103 PRIOR TO BID & CONSTRUCTION.

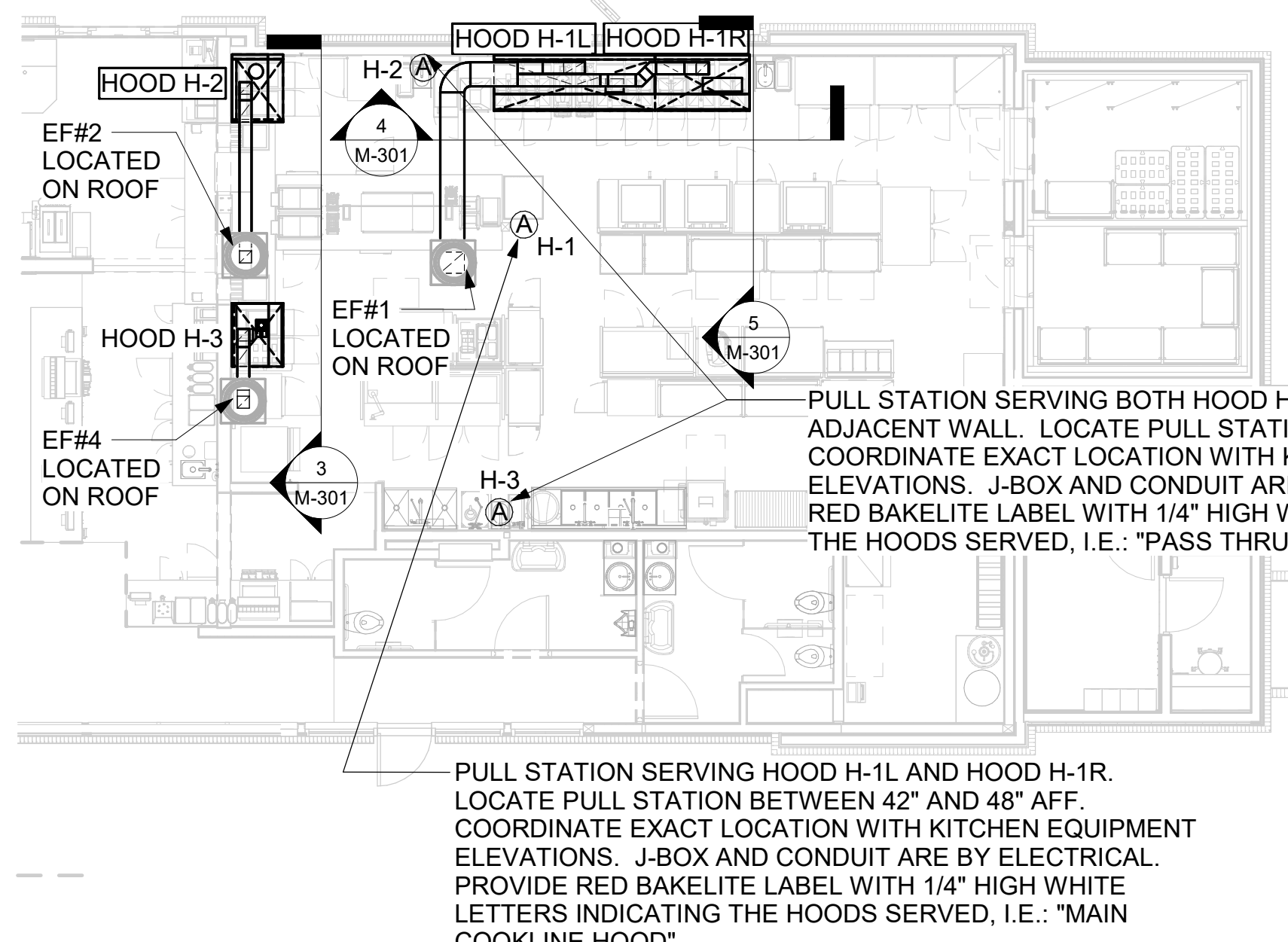
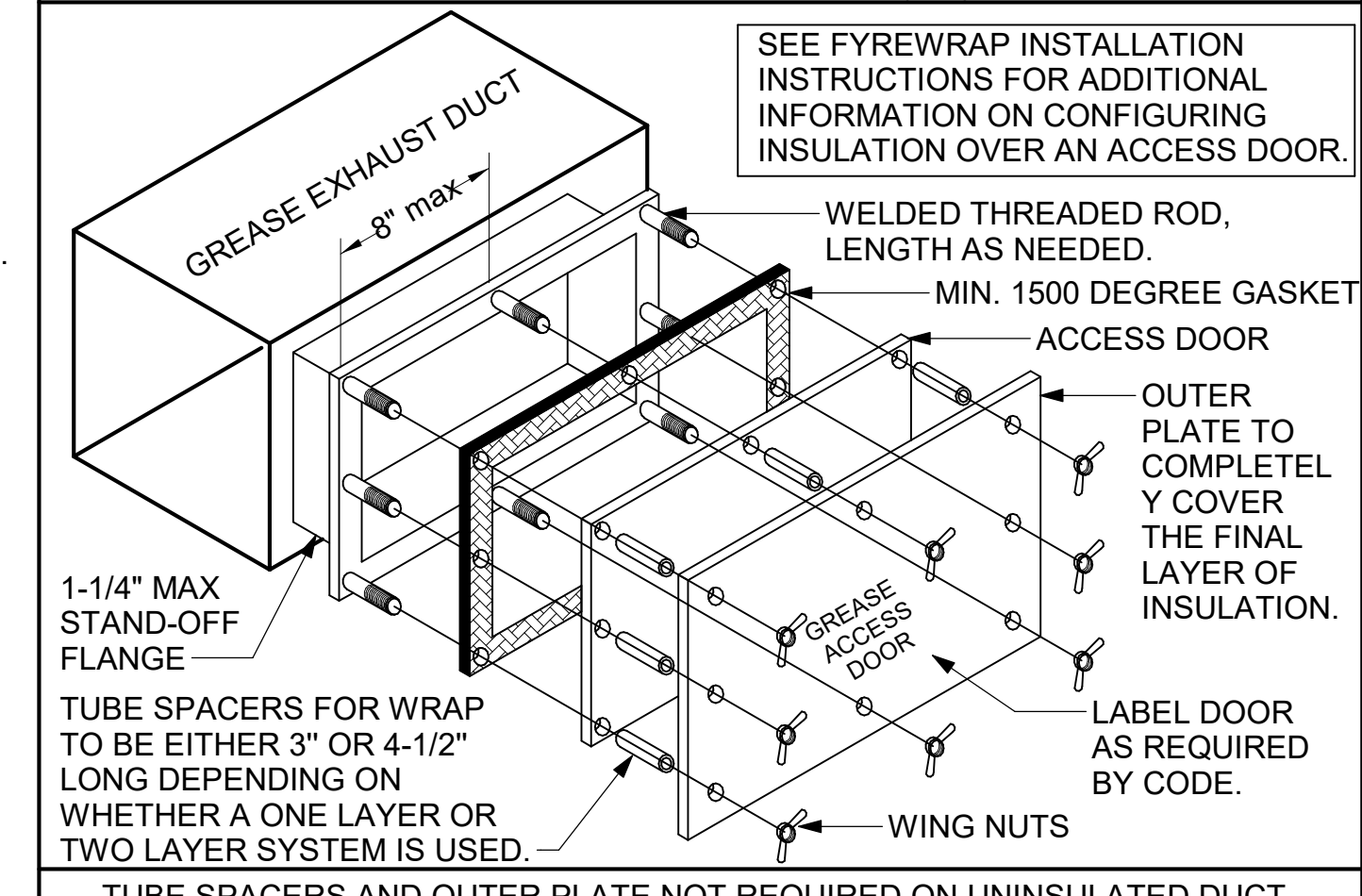
REMARKS

- STAINLESS STEEL CONSTRUCTION.
- PROVIDE FULL HEIGHT SS CLOSURE PANEL WITH ACCESS PANEL IN FRONT LARGE ENOUGH TO REMOVE CAPTURE JET FAN, SERVICE FIRE SUPPRESSION COMPONENTS, AND/OR TO ACCESS KBD EQUALIZER JACK SCREW.
- PROVIDE PRE-PIPED WET FIRE EXTINGUISHING SYSTEM.
- FIRE SUPPRESSION CABINET 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 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 KBD EQUALIZER.
- CONTINUOUS CAPTURE INTERNAL RIGHT END CUTOUT.
- CONTINUOUS CAPTURE INTERNAL LEFT END CUTOUT.

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.



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

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



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SRI#02665

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HOOD DETAILS AND SCHEDULES
SHEET NUMBER

M-301



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REVISION SCHEDULE table with columns: NO., DATE, DESCRIPTION

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For Construction - HVAC SCHEDULES

SHEET NUMBER M-402

AIR DEVICE SCHEDULE

Table with columns: MARK, DESCRIPTION, LOCATION, NECK SIZE, FACE SIZE, FRAME TYPE, REMARKS. Includes rows A through K.

EXHAUST FAN SCHEDULE

Table with columns: MARK, CFM, ESP, RPM, HP, AREA SERVED, MODEL, MANUFACTURER, REMARKS. Includes rows EF#1 through EF#4.

HEATER SCHEDULE

Table with columns: MARK, HEATING INPUT (ELECTRIC, GAS), FRAME LENGTH, FRAME WIDTH, FRAME DEPTH, MOUNTING TYPE, VOLTAGE, PHASE, FLA, MOCP, MODEL, MANUFACTURER, REMARKS. Includes row IRH#1.

HEATER SCHEDULE

Table with columns: MARK, HEATING INPUT (ELECTRIC, GAS), FRAME LENGTH, FRAME WIDTH, FRAME DEPTH, MOUNTING TYPE, VOLTAGE, PHASE, FLA, MOCP, MODEL, MANUFACTURER, REMARKS. Includes row IRH#1.

AIR BALANCE SCHEDULE

Table with columns: MARK, SUPPLY AIR, RETURN AIR, OUTSIDE AIR, EXHAUST AIR, BUILDING POSITIVE PRESSURE. Includes rows AC#1 through AC#5 and EF#1 through EF#4.

AIR DOOR SCHEDULE

Table with columns: MARK, CFM, VELOCITY, HEATING CAPACITY, HP, AREA SERVED, MODEL, MANUFACTURER, REMARKS. Includes rows AD#1 through AD#3.

ROOFTOP UNIT SCHEDULE - TRANE

Table with columns: MARK, TOTAL COOLING MBH, SENSIBLE COOLING MBH, HEATING INPUT MBH, HEATING OUTPUT MBH, SUPPLY CFM, OA (CFM), HP, ESP (in-wg), EER, IEER / SEER, VOLTAGE (V), PHASE, MCA (A), MOCP (A), MODEL, MANUFACTURER, REMARKS. Includes rows AC#1 through AC#5.

NOTES: MECHANICAL CONTRACTOR TO VERIFY TRANE SUBMITTAL WITH CONSTRUCTION DOCUMENTS. NATIONAL ACCOUNTS - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004.
REMARKS: 1. DIFFERENTIAL ENTHALPY ECONOMIZER WITH POWER EXHAUST. 2. DIFFERENTIAL ENTHALPY ECONOMIZER WITH BAROMETRIC EXHAUST. 3. 14" HIGH ROOF CURB. PROVIDE RESTRAINT CLIP/ATTACHMENT FOR HURRICANE/SEISMIC ANCHORING REQUIREMENTS. NOTE: COORDINATE WITH ADAPTER CURBS, AS REQUIRED FOR INSTALLATION. 4. SEE DETAIL 2/M-702T FOR SETTING OF CONTROL PARAMETERS BY MC. 5. FACTORY INSTALLED 115V GFI SERVICE OUTLET. SEPERATE 115V CIRCUIT PROVIDED BY ELECTRICAL CONTRACTOR. 6. FACTORY INSTALLED RETURN AIR AND SUPPLY AIR SMOKE DETECTOR. 7. FACTORY INSTALLED NON-FUSED DISCONNECT. 8. 2" MERV 8 THROW AWAY FILTERS. 9. HINGED PANELS FOR ACCESS TO FILTER(S), FAN BLOWER & MOTOR, COMPRESSOR(S) ACCESS AND CONTROLS. 10. FACTORY COIL HAIL GUARD, FIELD INSTALLED. 11. FRESH AIR TEMPERING KIT. 12. HOT GAS DEHUMIDIFICATION OPTION WITH WALL MOUNTED HUMIDITY SENSOR. 13. FACTORY INSTALLED BELT TENSIONER. 14. FACTORY CONFIGURED PHASE LOSS PROTECTION. 15. FACTORY INSTALLED CONDENSATE PAN DRAIN OVERFLOW SWITCH. 16. FACTORY STAINLESS STEEL HEAT EXHANGER. 17. 100K SCCR RATING, IF AVAILABLE, FOR RESPECTIVE MODELS.

DUCTLESS SPLIT SYSTEM

Table with columns: UNIT MARK, SERVICE, LOCATION, SEER, EER, COOLING DATA (TOTAL MBH, SENSIBLE MBH, INDOOR TEMP, OUTDOOR TEMP), FAN DATA (CFM, 3-SPEED), ELECTRICAL SERVICE (MCA, MOCP, VOLTS, PH, HZ), MANUFACTURER (MODEL NUMBER, AS STANDARD), UNIT NUMBER, LOCATION, OUTDOOR UNIT (MCA, MOCP, VOLTS, PH, HZ), MANUFACTURER (MODEL NUMBER, AS STANDARD), REMARKS. Includes row AC#6.

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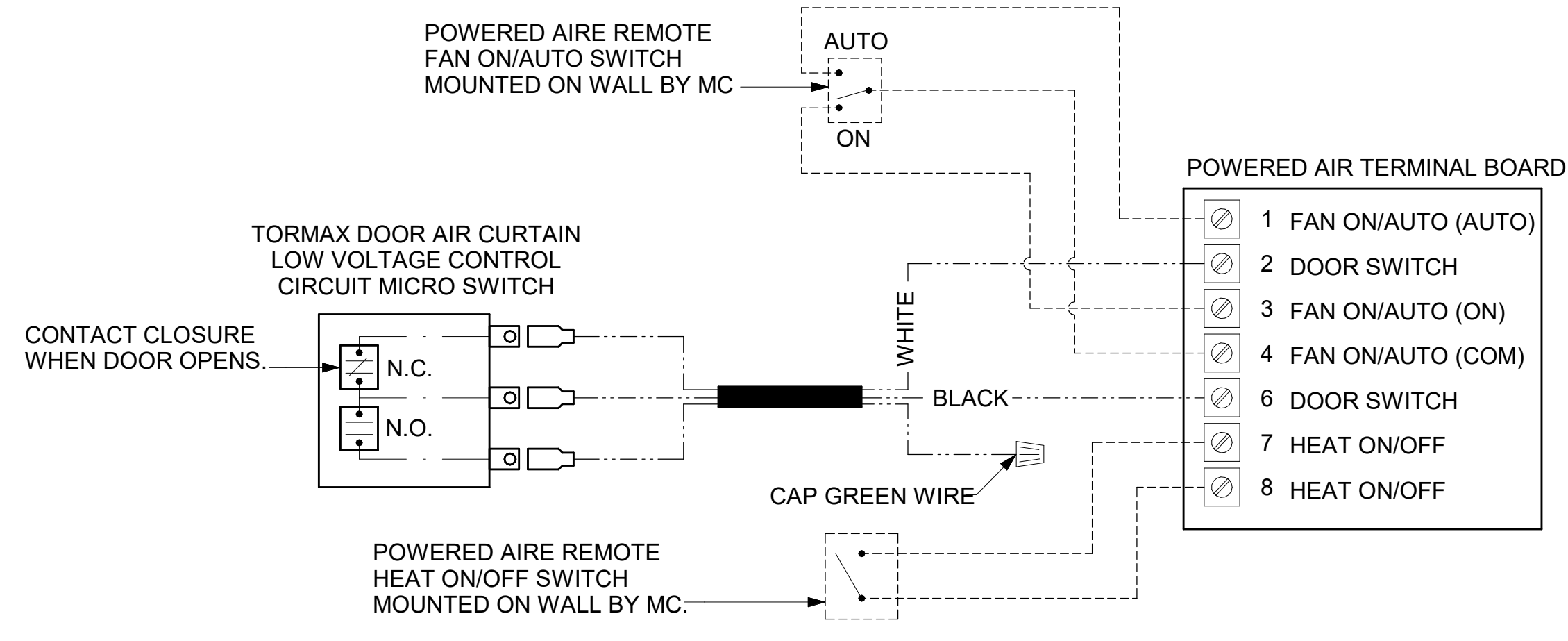
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HVAC CONTROLS
SHEET NUMBER
M-501

LEGEND

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



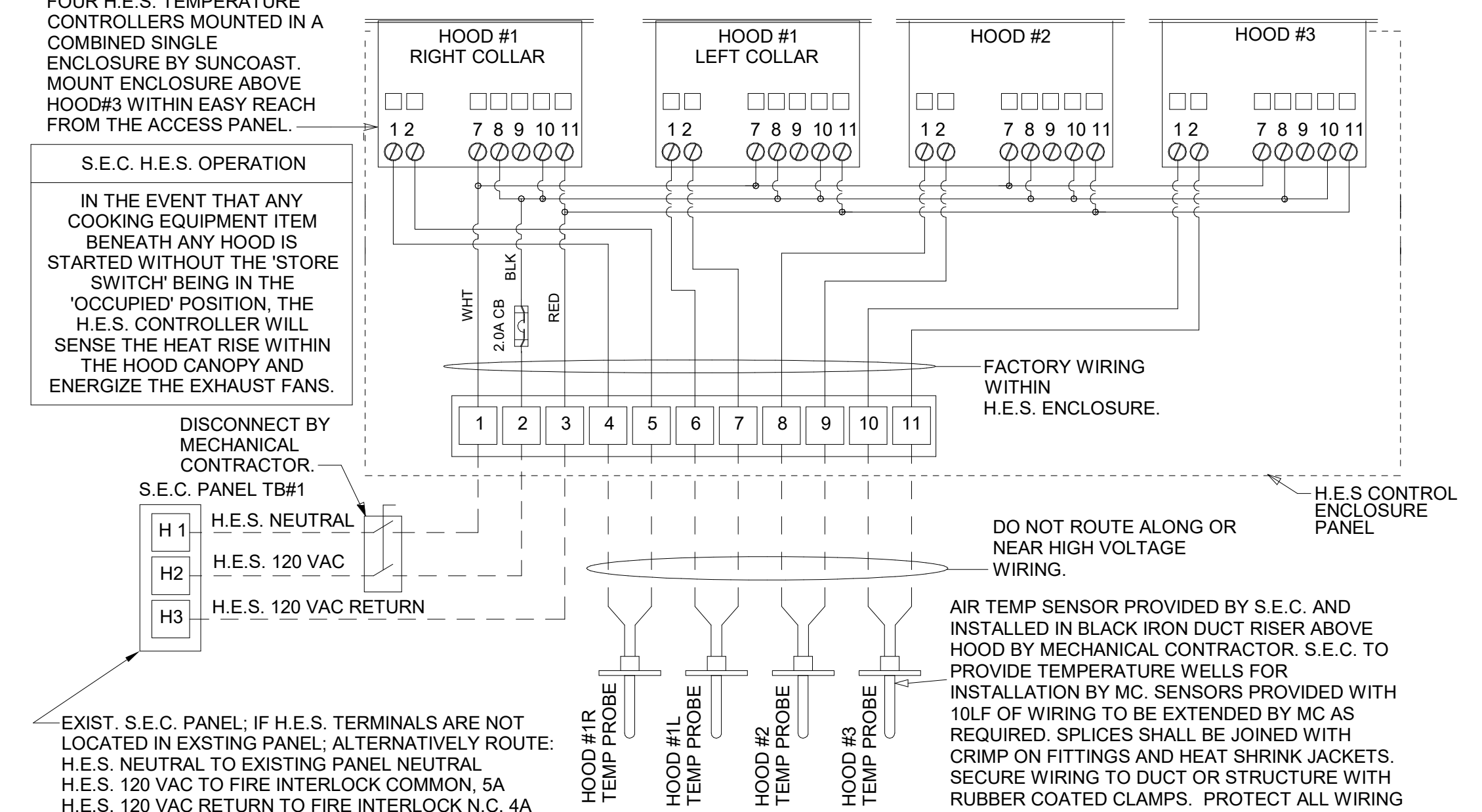
5 AIR DOOR LOW VOLTAGE CONNECTION DIAGRAM
NOT TO SCALE

LEGEND

S.E.C.	SUNCOAST ENVIRONMENTAL CONTROLS CFA-500 ENERGY MGT PANEL
H.E.S.	SUNCOAST ENVIRONMENTAL CONTROLS HOOD EXHAUST SAFETY CONTROLLER NEMA-1 ENCLOSURES
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.
- CONTROL 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.

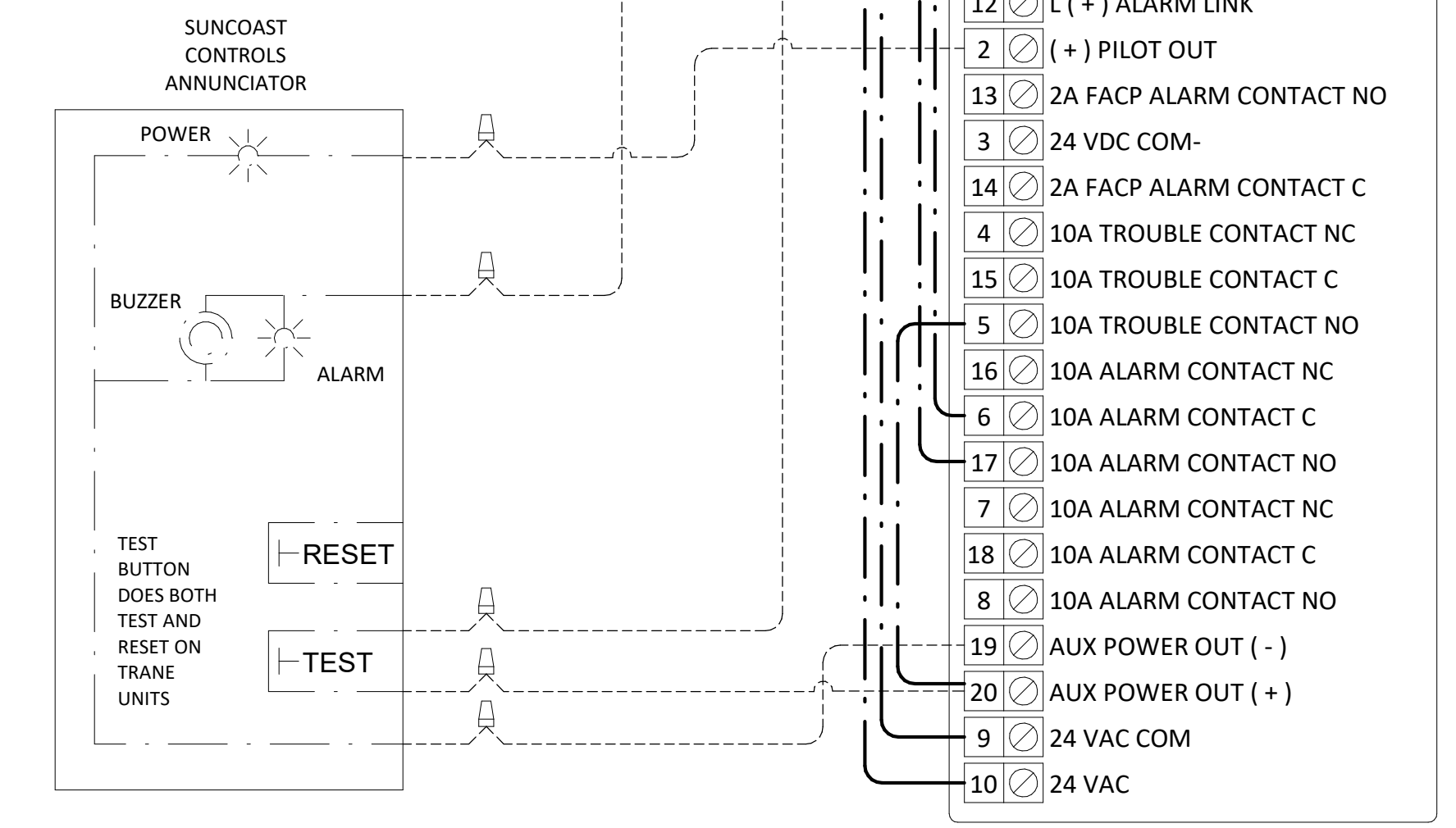


3 HOOD EXHAUST SAFETY SWITCH (H.E.S.S.) WIRING DIAGRAM
NOT TO SCALE

SUPPLY SIDE DETECTORS:
IF SUPPLY SIDE SMOKE DETECTORS ARE SHOWN ON DWG M-201, AND CALLED FOR ON RTU SCHEDULE, THE CONTRACTOR IS TO VERIFY THAT SMOKE DETECTOR IS FACTORY INSTALLED IN ROOFTOP UNIT.

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

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



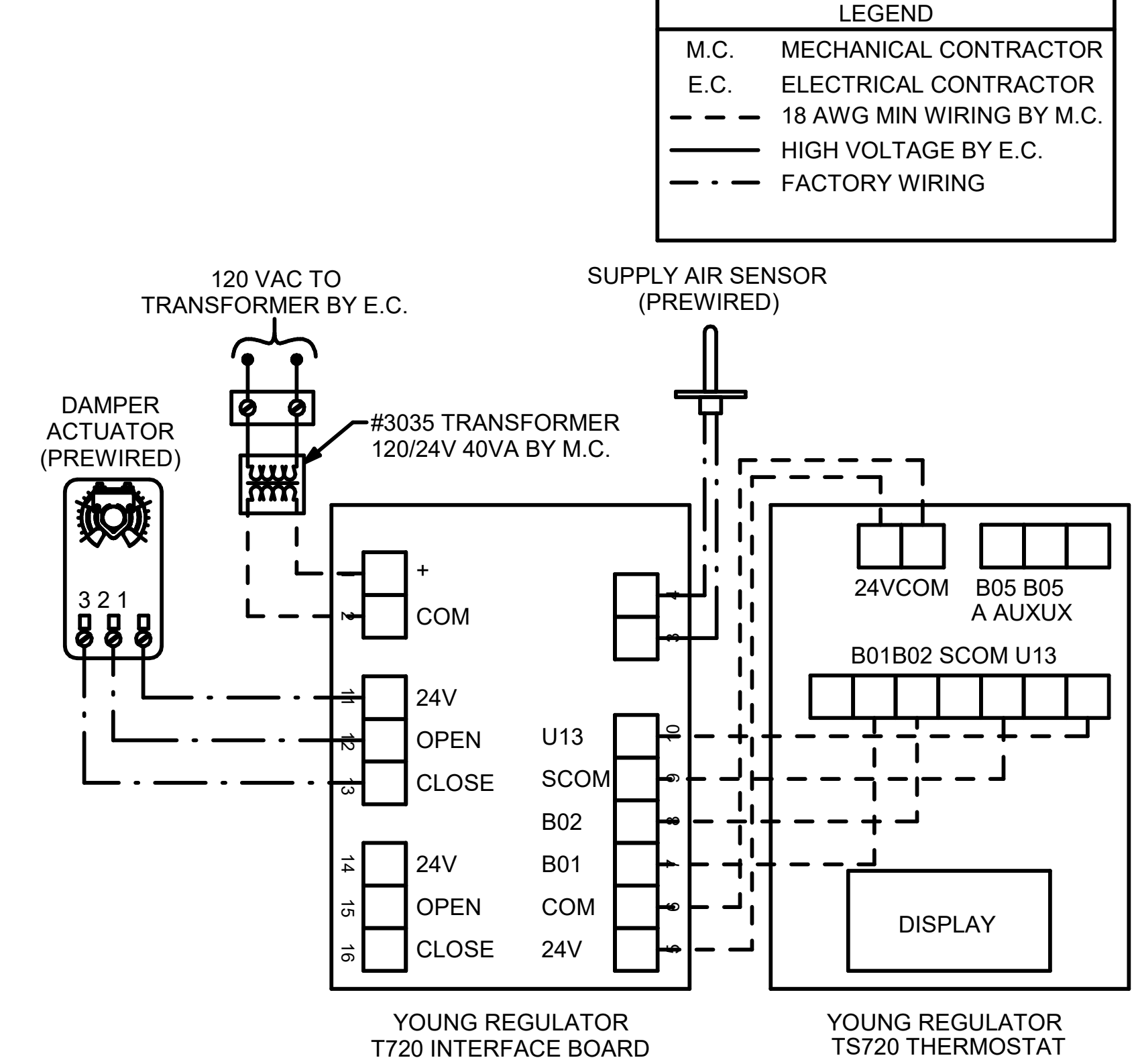
2 SMOKE DETECTOR AND ANNUNCIATOR WIRING DIAGRAM - TRANE
NOT TO SCALE

NOTES

- SEE DWG M-201 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 - TEAM MEMBER ROOM
NOT TO SCALE

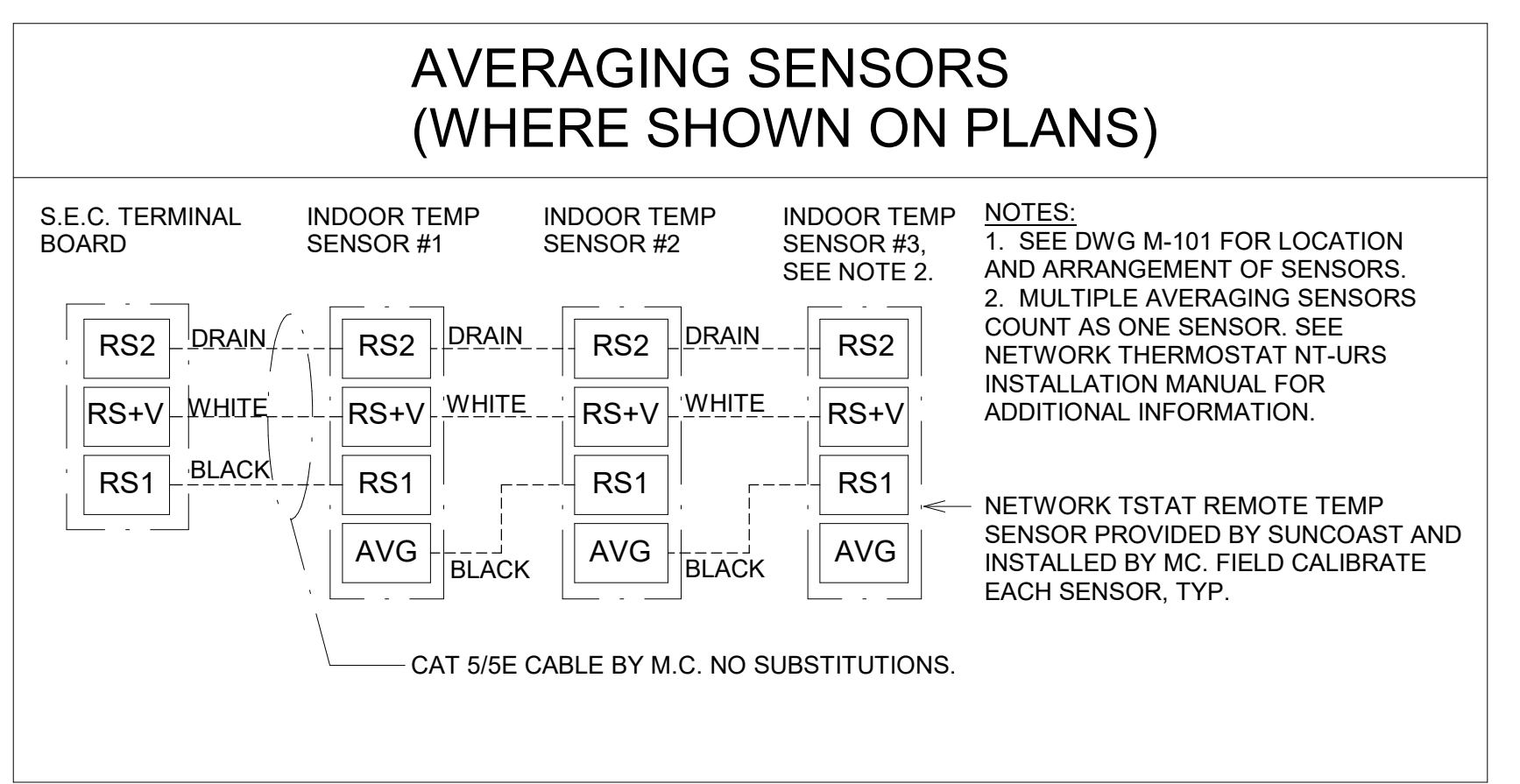
PROVIDE A PROFESSIONALLY LAMINATED COPY OF THESE DETAILS TO BE INSTALLED INSIDE THE ROOFTOP UNIT CONTROL CABINET. USE A SETON CHART FRAME STYLE #68824, TELEPHONE NUMBER 800-243-6624. FOR MOUNTING THE DETAIL, ATTACH THE FRAME TO THE INTERIOR OF THE UNIT IN PLAIN AND EASY VIEW OF THE CONTROLS SECTION. CONTACT ENGINEER OF RECORD FOR A REPRODUCIBLE COPY OF THE DETAIL.

KEYED NOTES:

- LOW VOLTAGE WIRING TO RTU TO BE ROUTED TO UNIT THRU FACTORY WIRING.
- WIRING TO HUMIDITY SENSOR TO BE MADE WITH SINGLE 18/2 SENSOR CABLE. W221P-2003NT ONLY
- NETWORK TSTAT REMOTE TEMP SENSOR PROVIDED BY SUNCOAST AND INSTALLED BY MC. SENSOR IS INTENDED TO BE SURFACE MOUNTED AND DOES NOT REQUIRE A SINGLE GANG BOX OR CONDUIT. FIELD CALIBRATE EACH SENSOR. SEAL CALIBRATION AT ALL WALL LOCATIONS.
- THE RH SETPOINT IS ESTABLISHED BY ADJUSTING THE R41 POTENTIOMETER (LABELED 'DEHUMID SP') ON THE RTOM MODULE. SET TO 60%.

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 PLAIC ENGRAV/LABEL AT ALL NEW SENSORS WITH 1/4" HIGH WHITE LETTERING ON BLACK BACKGROUND, I.E. "ACH#2 HUMIDITY SENSOR" OR "ACH#2 TEMP SENSOR". PLACE LABELS ON WALL ADJACENT TO DEVICE, DO NOT APPLY DIRECTLY TO DEVICE.

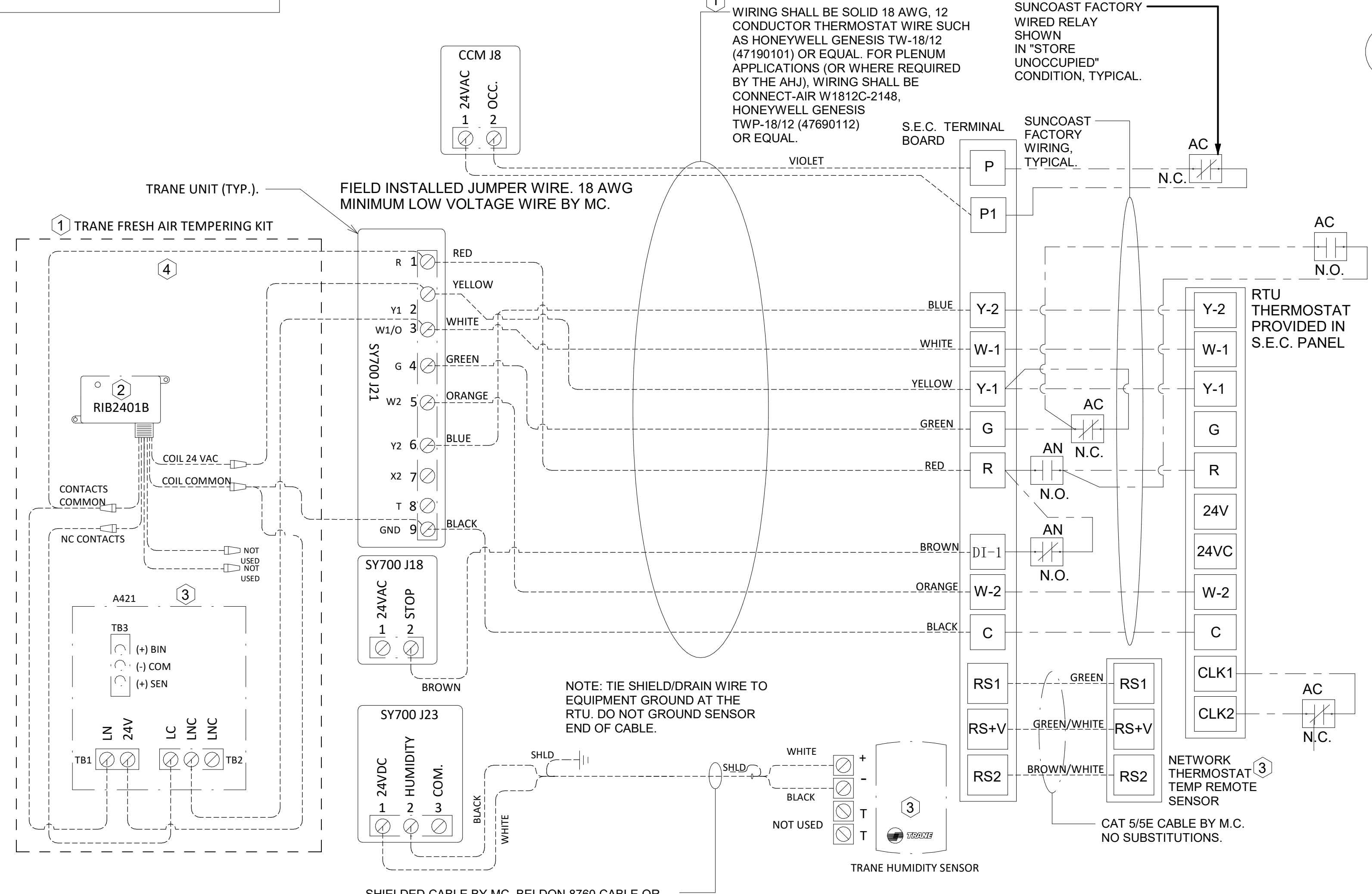


LEGEND

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

FRESH AIR TEMPERING KEYED NOTES:

- INSTALL FRESH AIR TEMPERING KIT AS RECOMMENDED BY TRANE.
- RIB2401B SPDT RELAY PROVIDED BY TRANE AND INSTALLED BY CONTRACTOR IN CONTROL CABINET OF TRANE UNIT.
- JCI A421 TEMPERATURE CONTROLLER PROVIDED BY TRANE AND INSTALLED BY CONTRACTOR. DIN-MOUNTED IN THE RTU CONTROL CABINET. SET TO 58F. LOCATE TRANE PROVIDED JCI A49 SENSOR IN THE SUPPLY DUCT DOWNSTREAM OF FIRST ELBOW. SECURE WIRING TO DUCT WITH TE6001-1 SENSOR DUCT MOUNTING PLATE PROVIDED BY TRANE; DO NOT RUN WIRING INSIDE DUCTWORK.
- 18 AWG MIN. LOW VOLTAGE WIRING BY MC.



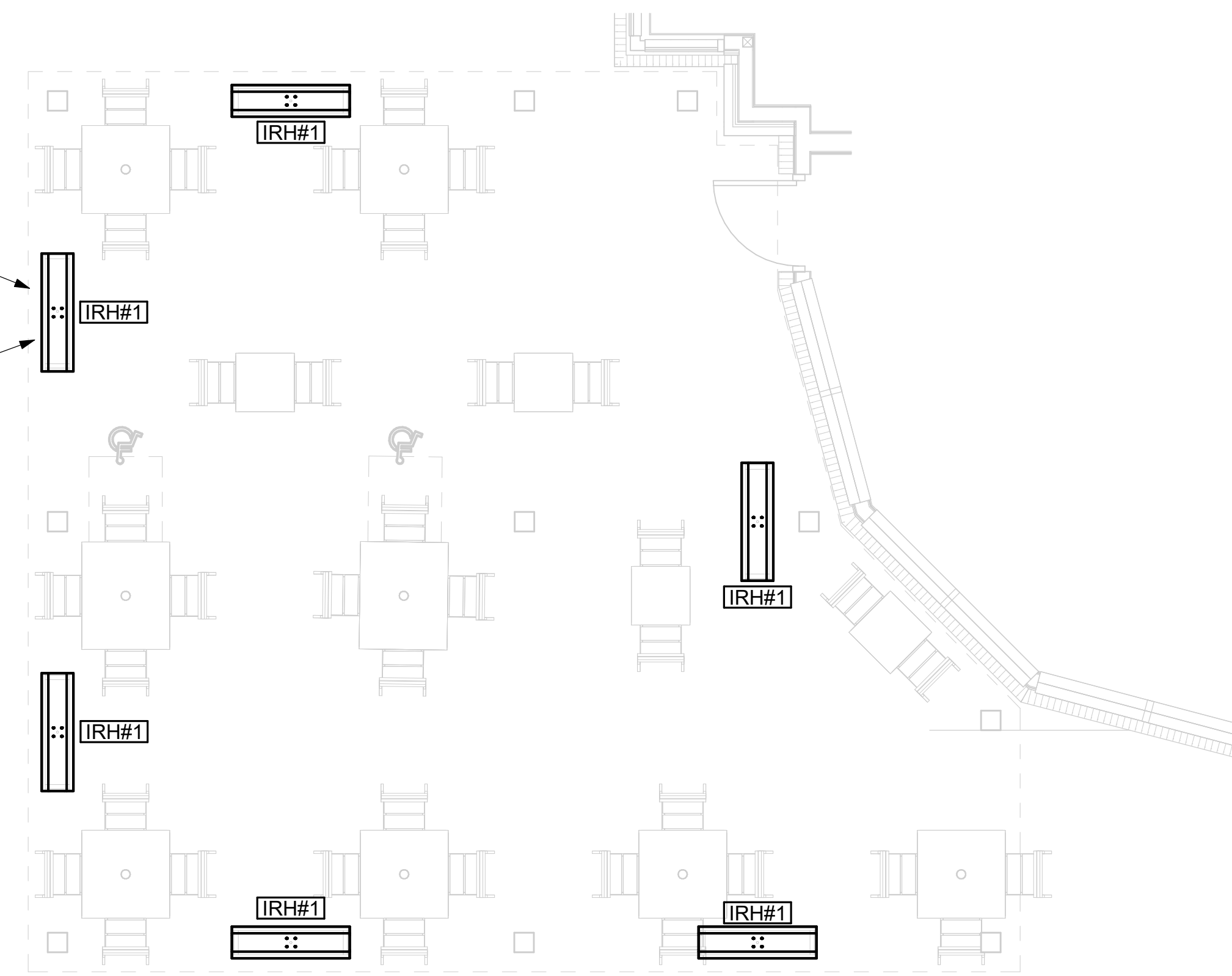
1 ROOFTOP UNIT CONTROL WIRING - TRANE
NOT TO SCALE

E
D
C
B
A

4 3 2 1

MECHANICAL CONTRACTOR TO PROVIDE SS HEAT SHIELD. HEAT SHIELD TO SET ON TOP OF IR HEATER ON THE FACTORY HEATER MOUNTING STUDS. SHIELD TO BE ORIENTED SO EDGE IS TURNED DOWN. TYPICAL AT ALL IR HEATERS.

GAS-FIRED INFRARED HEATER. MC TO ATTACH TO MOUNTING PLATE ON CANOPY. MOUNTING PLATE IS PROVIDED AND INSTALLED BY THE CANOPY MFR. TYPICAL AT ALL IR HEATERS.



COVERED SEATING CANOPY - SEE ARCHITECTURAL

1 MECHANICAL FLOOR PLAN - COVERED SEATING CANOPY
 1/4" = 1'-0"

CANOPY GENERAL NOTES

- COORDINATE NEW WORK WITH EXISTING CONDUIT, STRUCTURE, AND PIPING. FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK.
- COORDINATE LOCATION AND RESPONSIBILITIES FOR UNDERGROUND PIPING AND ASSOCIATED TRENCHING WITH GENERAL CONTRACTOR PRIOR TO START OF WORK.



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SRI#02665

BUILDING TYPE / SIZE: S08 (N)

RELEASE: 22-12

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	06/21/2024	PERMIT
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2	11/25/24	BID ADD 1
	11/25/24	CONSTRUCTION SET

CONSULTANT PROJECT # C291127

DATE 06/21/2024

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SHEET CANOPY MECHANICAL PLANS

SHEET NUMBER

For Construction -

M-601

4 3 2 1

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 TRANE 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. 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. TRANE 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. TRANE EQUIPMENT - CONTACT MR. SCOTT ROWLEY AT 630-200-7155 FOR PRICING, ORDERING AND AVAILABILITY. TRANE EQUIPMENT NOT PURCHASED THRU TRANE NATIONAL ACCOUNTS WILL NOT BE ACCEPTED.
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. NOTE NOT USED.
9. SPACE-RAY INFRARED HEATER PACKAGE - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE HEATER PACKAGE DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. HEATERS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.
10. 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 (AC036BNTDCHAA / AC036BXADCHAA) IS INTENDED FOR USE. FOR SAMSUNG, PLEASE CONTACT CHAD FISHER AT 479-821-3020. DUE TO PROCUREMENT SUPPLY ISSUES IN ASHRAE CLIMATE ZONES 0-3, MITSUBISHI (NTXWST36B112AA / NTXSST36B112AA) 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.



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DES PERES, MO 63131

SRI#02665
BUILDING TYPE / SIZE: S08 (N)
RELEASE: 22-12
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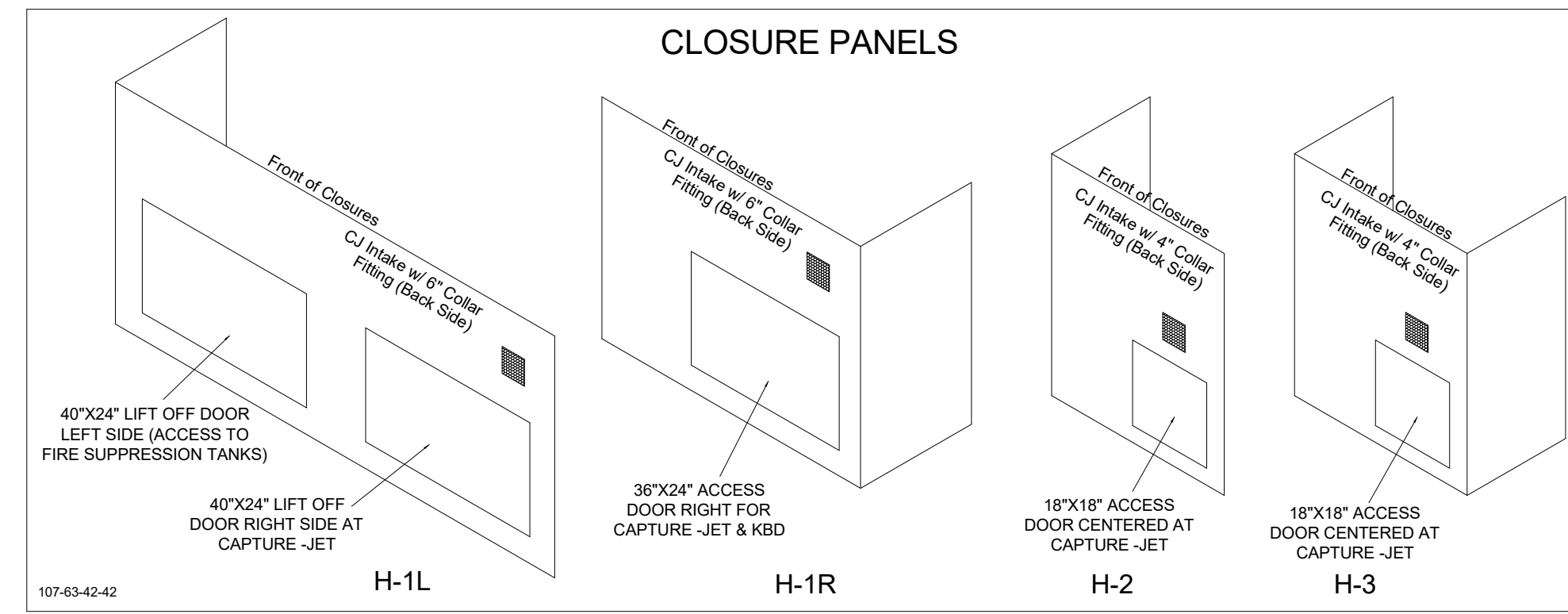
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SHEET HVAC SPECIFICATIONS

SHEET NUMBER
M-901

11/22/2024 9:58:33 AM Autodesk Docs://MO_02665_Des Peres FSU_2023.2_REI/02665_Des Peres_Mech_Reinvestment_CPH.rvt
30-(N)-02665-M901-HVAC SPECIFICATIONS

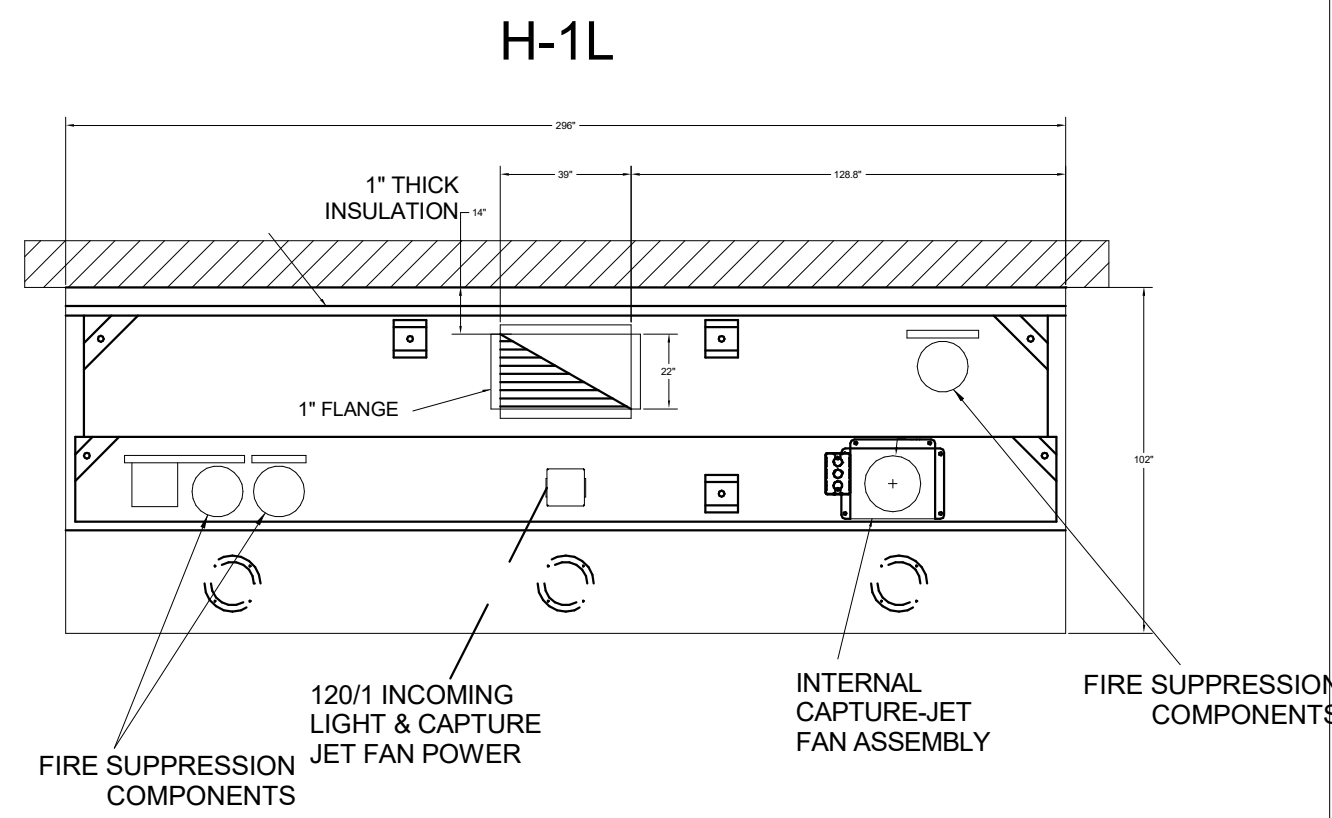
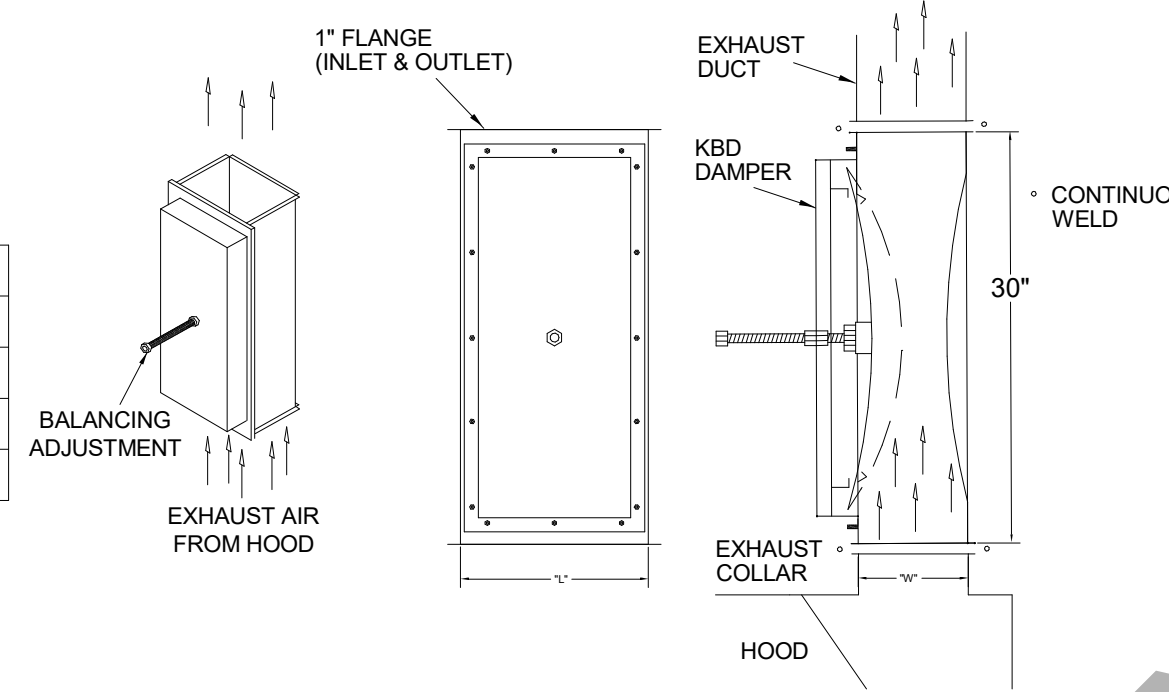
HOOD MODEL	HOOD NUMBER	QTY	EXHAUST COLLAR			EXHAUST AIR INFORMATION			CAPTURE AIR INFORMATION		S.S. KSA FILTERS		LED LIGHTS	QTY	CEILING CLOSURES			KBD DAMPER	K FACTOR (CFM = K FACTOR * √DP)	MATERIAL
			LENGTH	WIDTH	CFM	TAB	SP	CFM	SP	FULL	HALF	CLOSURE HEIGHT			CEILING HEIGHT	HOOD WEIGHT				
KVL-2-IC	H-1L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



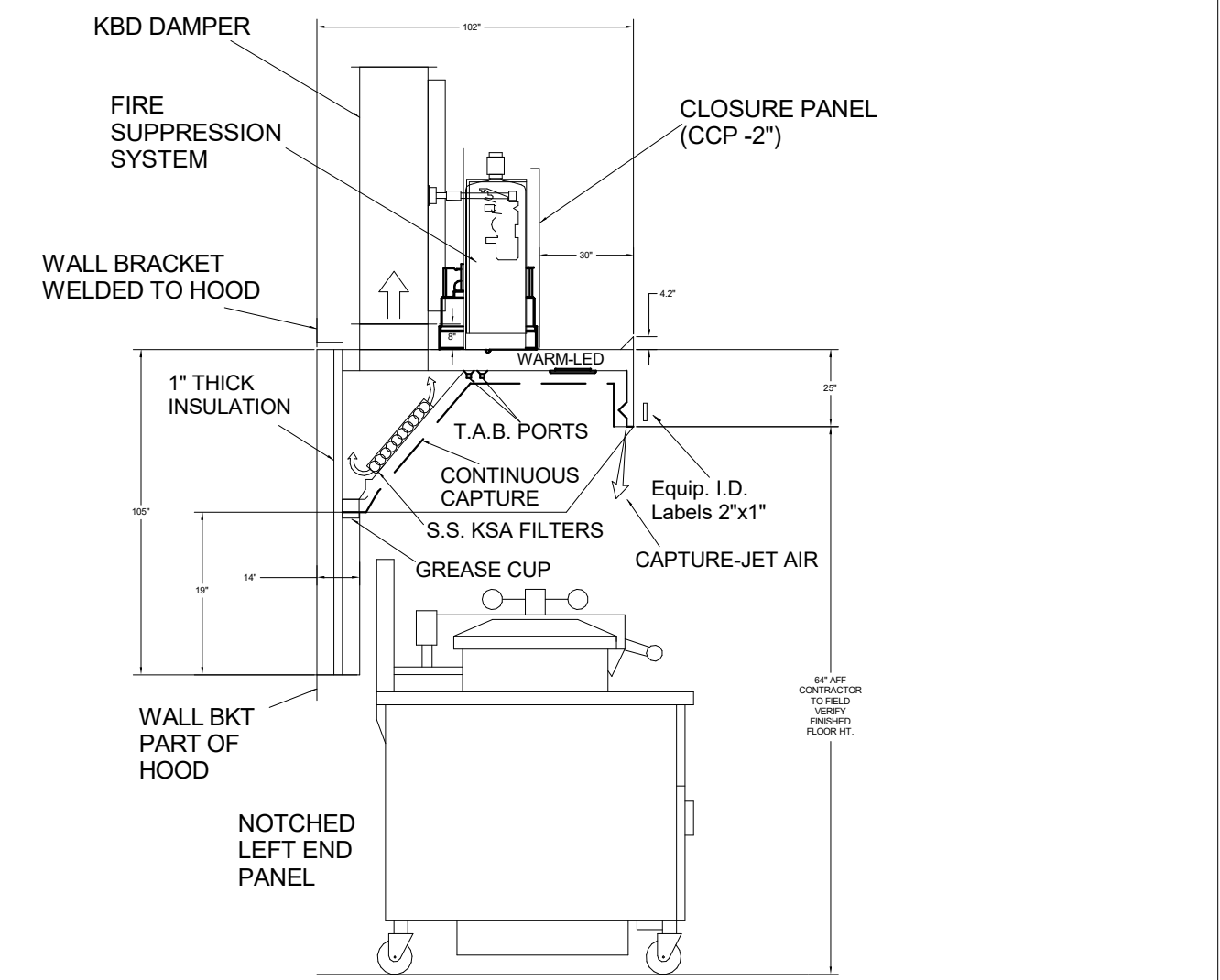
MODEL:KBD
CALIBRATED KBDs
KITCHEN BALANCING DAMPER
EXHAUST VOLUME DAMPER

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

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

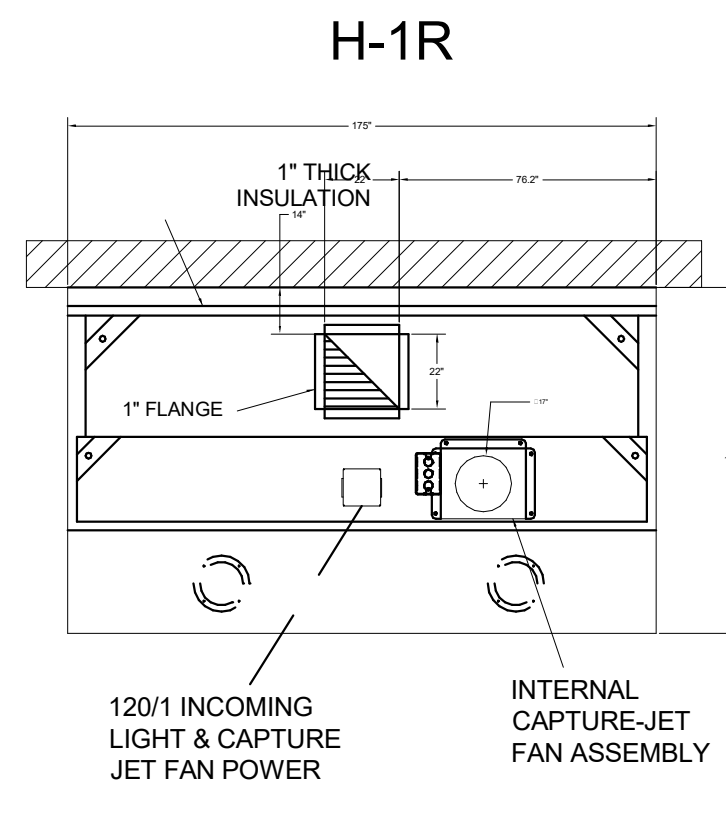
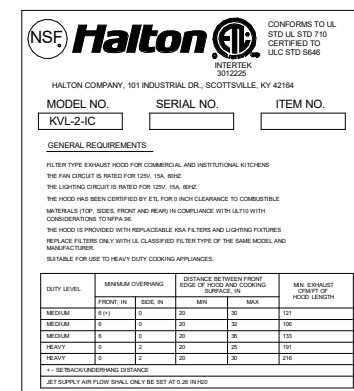


PLAN VIEW

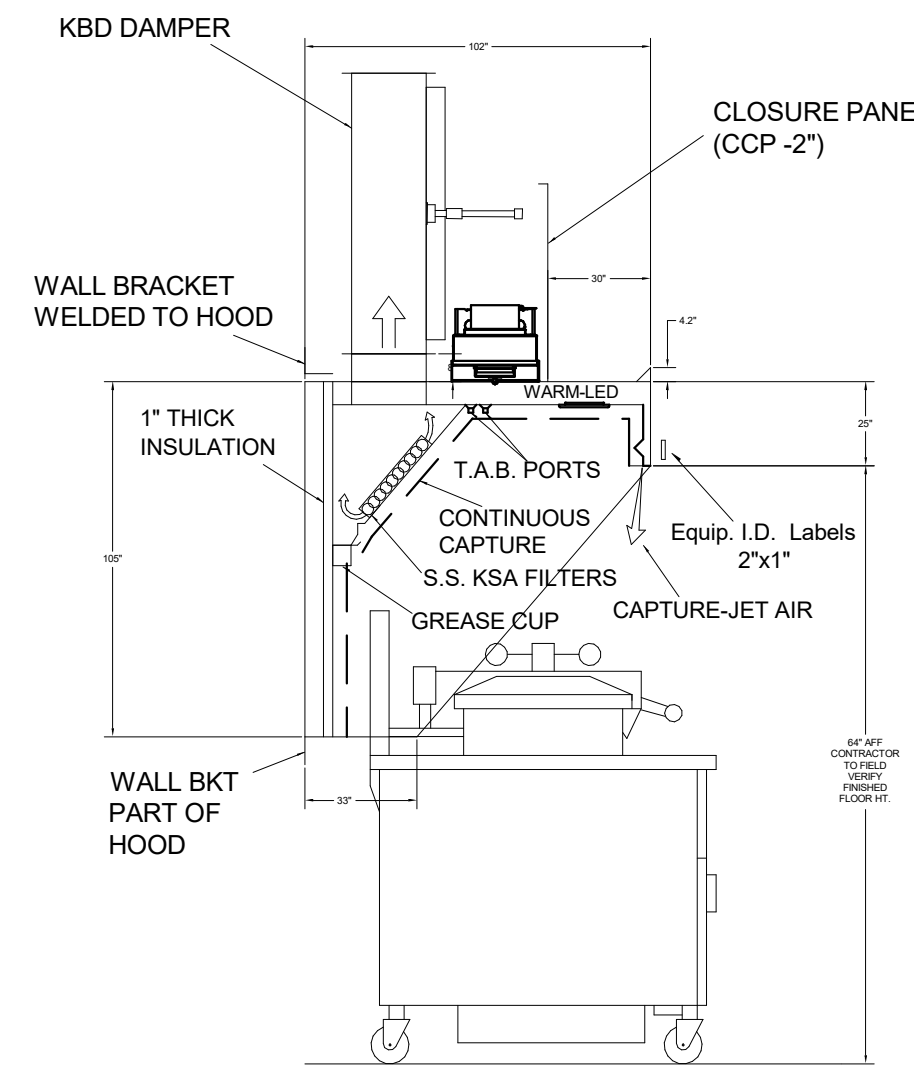


H-1L SECTION VIEW

- CEILING CLOSURE RECESSED 11" FROM FRONT TO CREATE SHELF
- FRONT CLOSURE PANEL WITH 40"X24" LIFT OFF DOOR LEFT SIDE (ACCESS TO FIRE SUPPRESSION)
- 40"X24" LIFT DOOR RIGHT SIDE AT CAPTURE-JET WITH FRONT CJ INTAKE
- CONTINUOUS CAPTURE INTERNAL RIGHT END CUTOUT
- 3" REAR STAND-OFF TO HAVE 1" THICK INSULATION
- NOTCHED LEFT END PANEL
- GREASE CUP RIGHT END
- AMEREX WEIGHT = 264 LBS

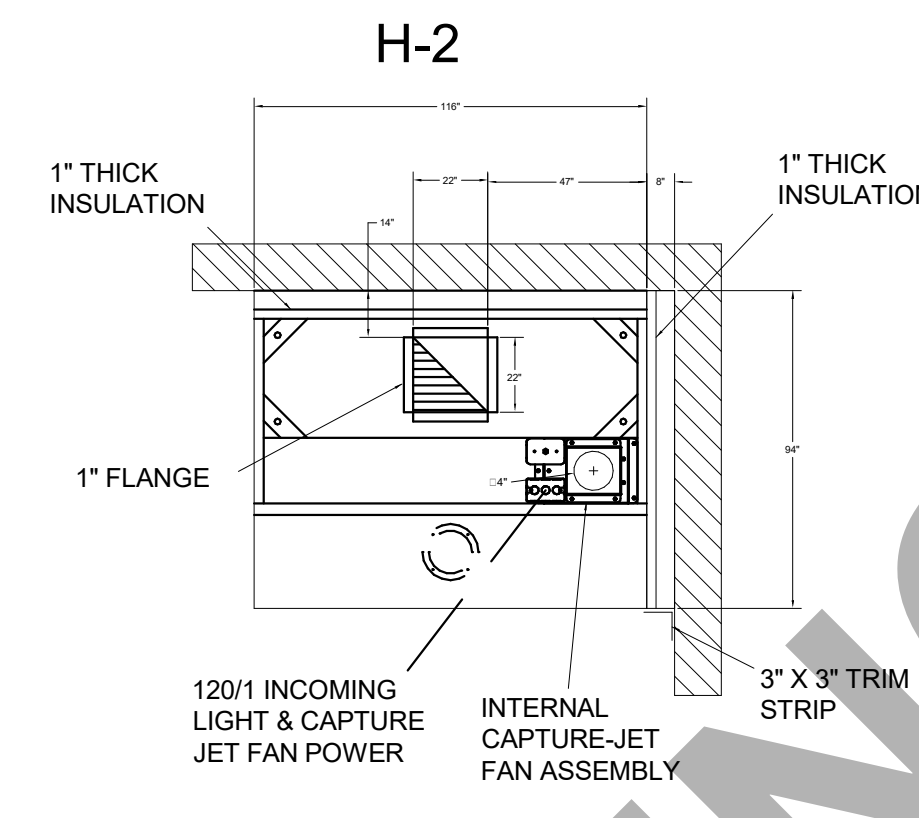


PLAN VIEW

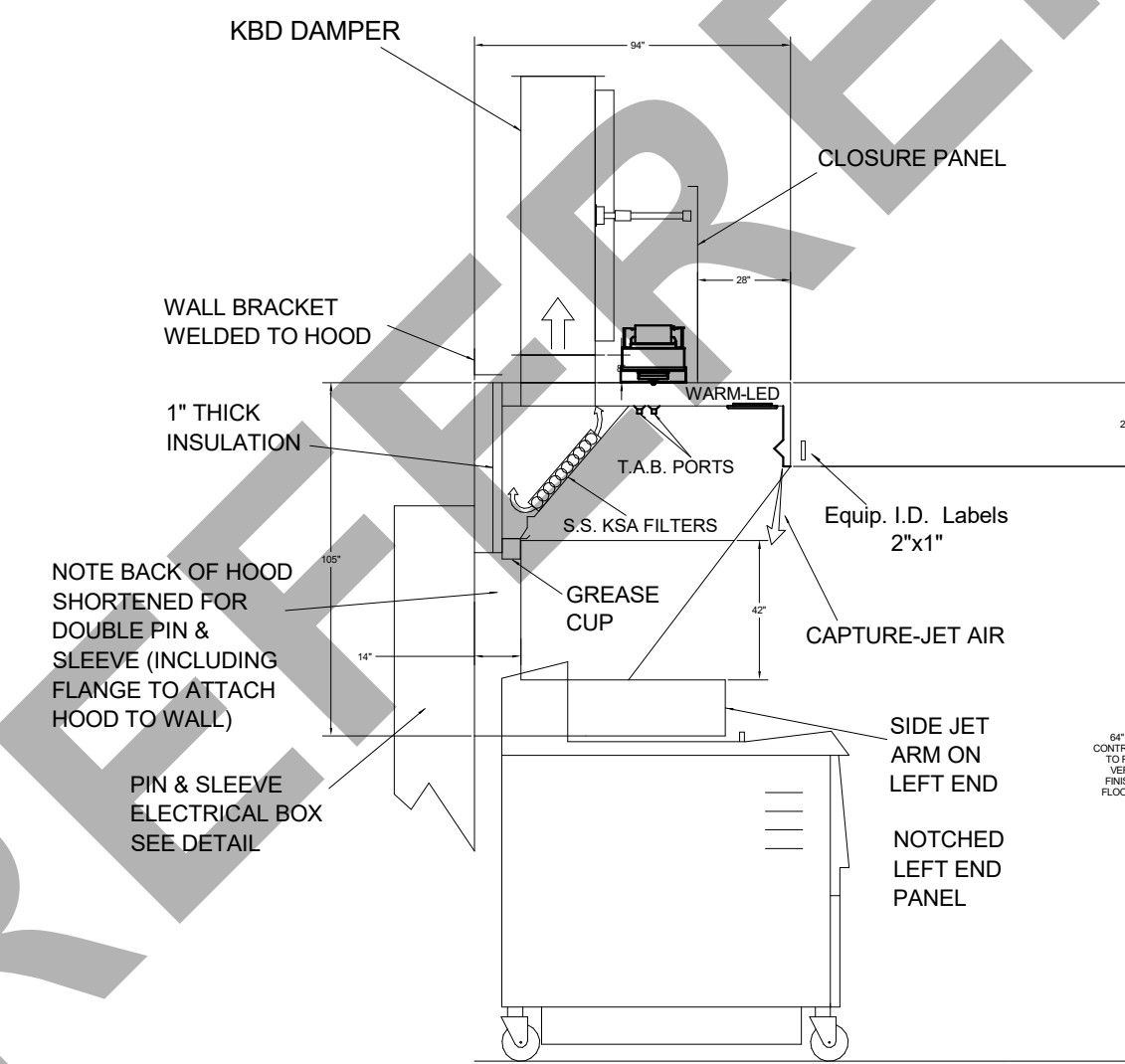


H-1R SECTION VIEW

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

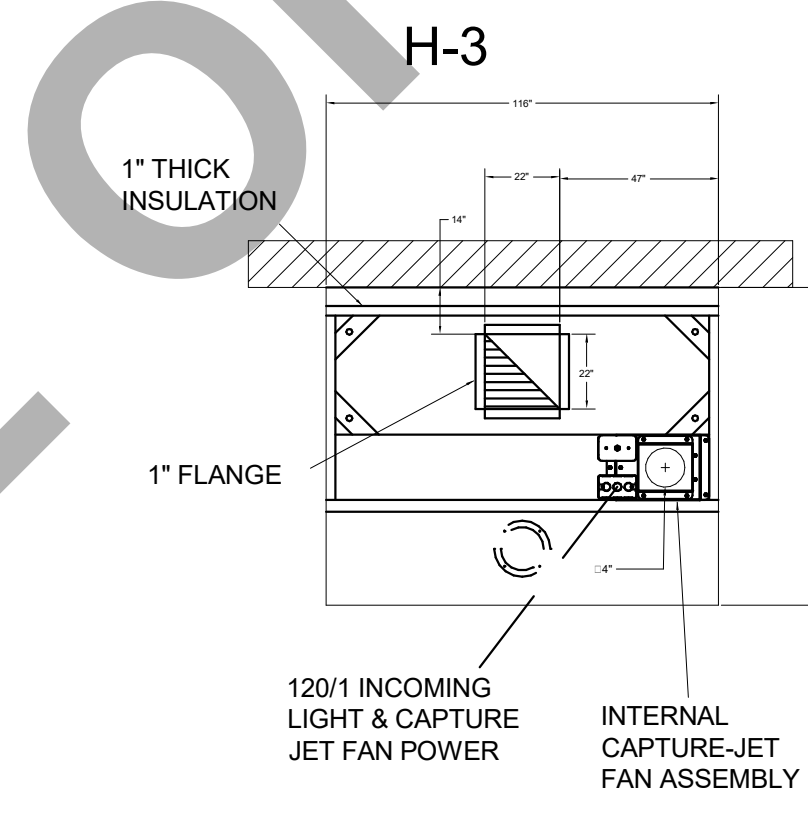
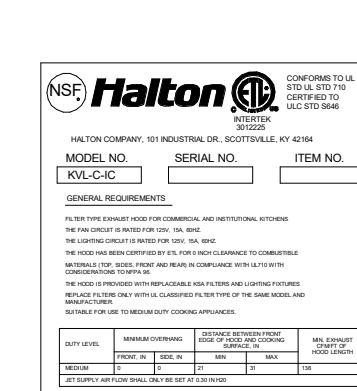


PLAN VIEW

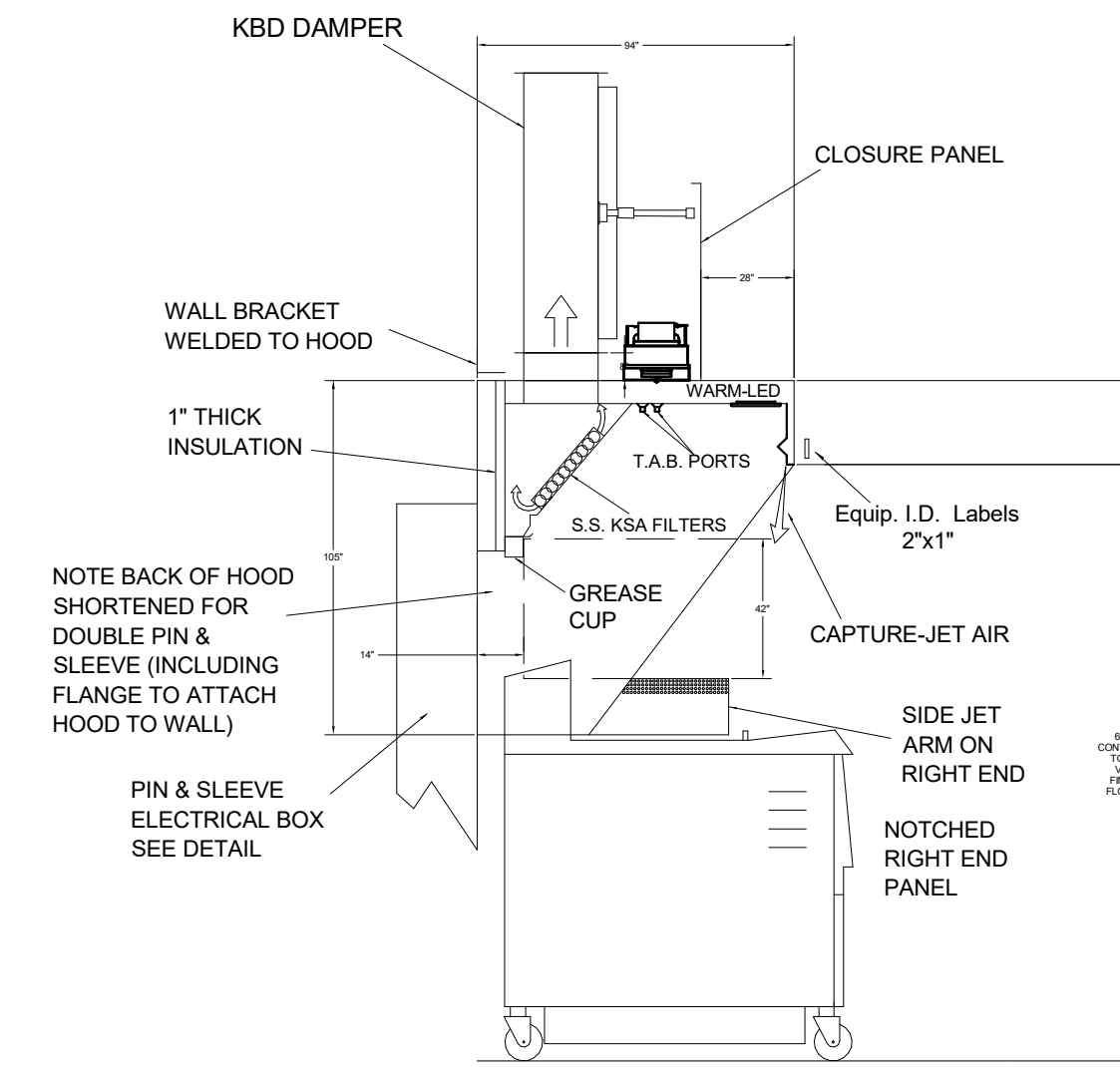


H-2 SECTION VIEW

- CEILING CLOSURE RECESSED 10" FROM FRONT TO CREATE SHELF
- NOTCHED LEFT END PANEL
- DOUBLE RECEPTACLE PIN & SLEEVE
- 3"X3" TRIM STRIP FOR STANDOFF ON RIGHT END
- 3" SIDE & REAR STAND-OFF TO HAVE 1" THICK INSULATION
- GREASE CUP RIGHT END

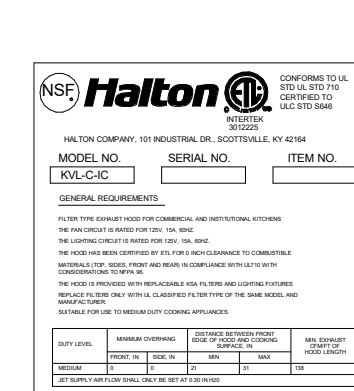


PLAN VIEW



H-3 SECTION VIEW

- CEILING CLOSURE RECESSED 10" FROM FRONT TO CREATE SHELF
- NOTCHED RIGHT END PANEL
- DOUBLE RECEPTACLE PIN & SLEEVE
- 3" REAR STAND-OFF TO HAVE 1" THICK INSULATION
- GREASE CUP RIGHT END



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

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

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

- APPROVED FOR FABRICATION: WITH CHANGES AS NOTED
- REVISED AND RESUBMIT: WITH NO CHANGES



REV	DATE	DESCRIPTION
1	06.06.24	FOR CONSTRUCTION
2		
3		
4		
5		
6		
7		
8		
9		
10		

PROJECT: CHICK-FIL-A #2665
DES PERES

LOCATION: DES PERES, MO
DRAWN BY: SKK
SCALE: NOT TO SCALE

DATE: 06.06.24

Halton

DRAWING NO.: U24-461-01
SHEET NO.: H-1.1



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



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A & E Firm**
Plans Prepared By
CPH Design, LLC
500 West Fulton Street
Sanford, FL 32771
State of Missouri Licenses:
Architectural Corp. No. 2022046367
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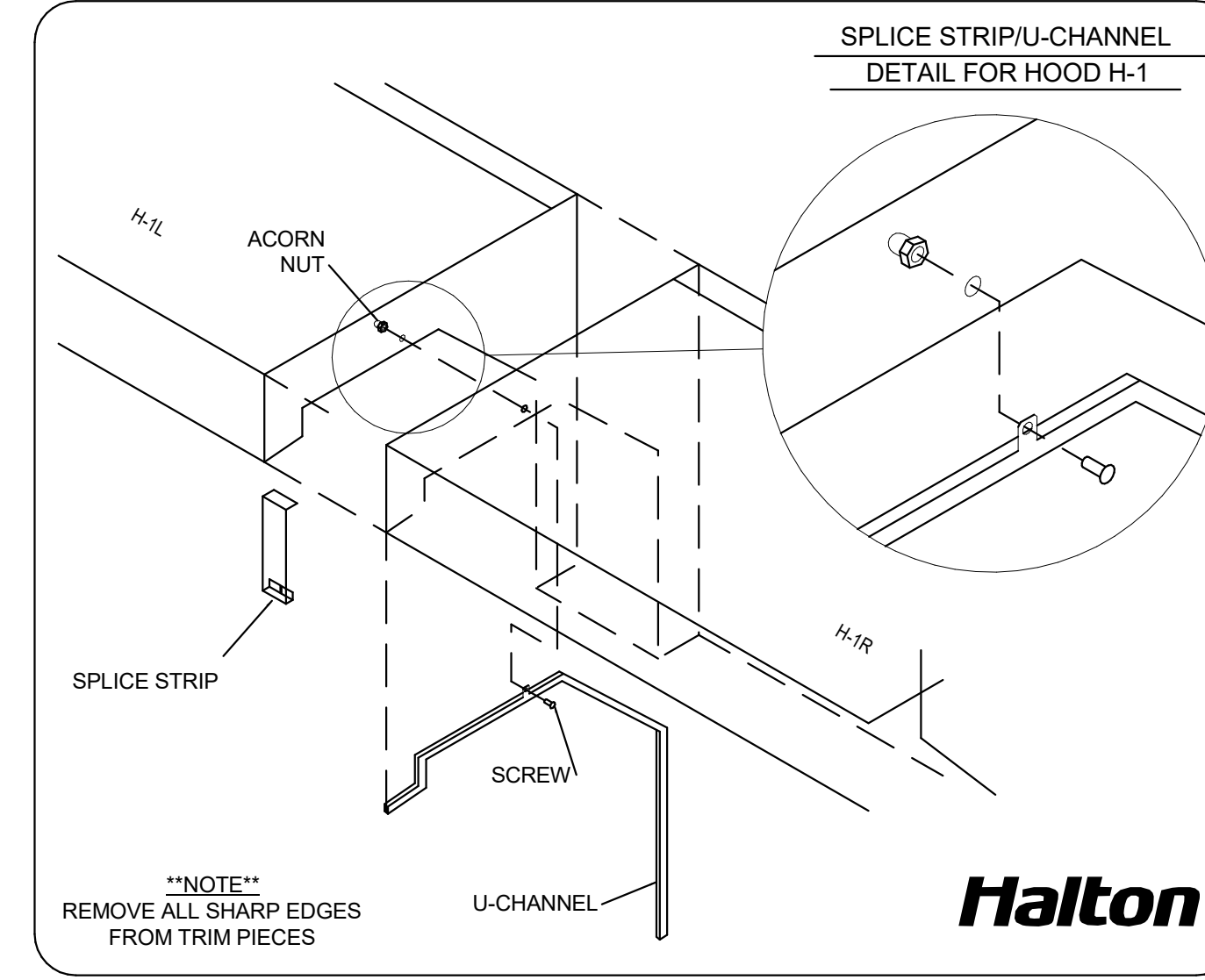
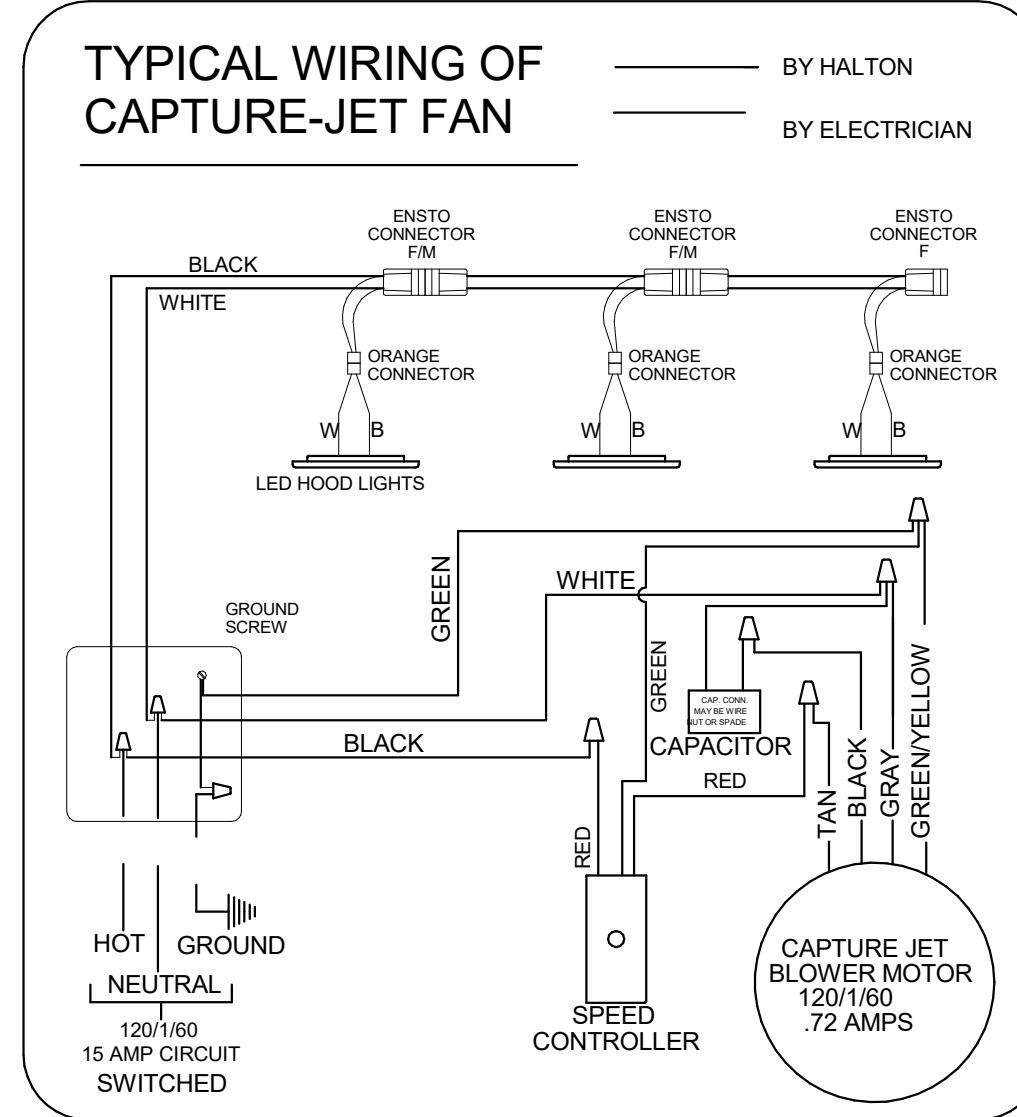
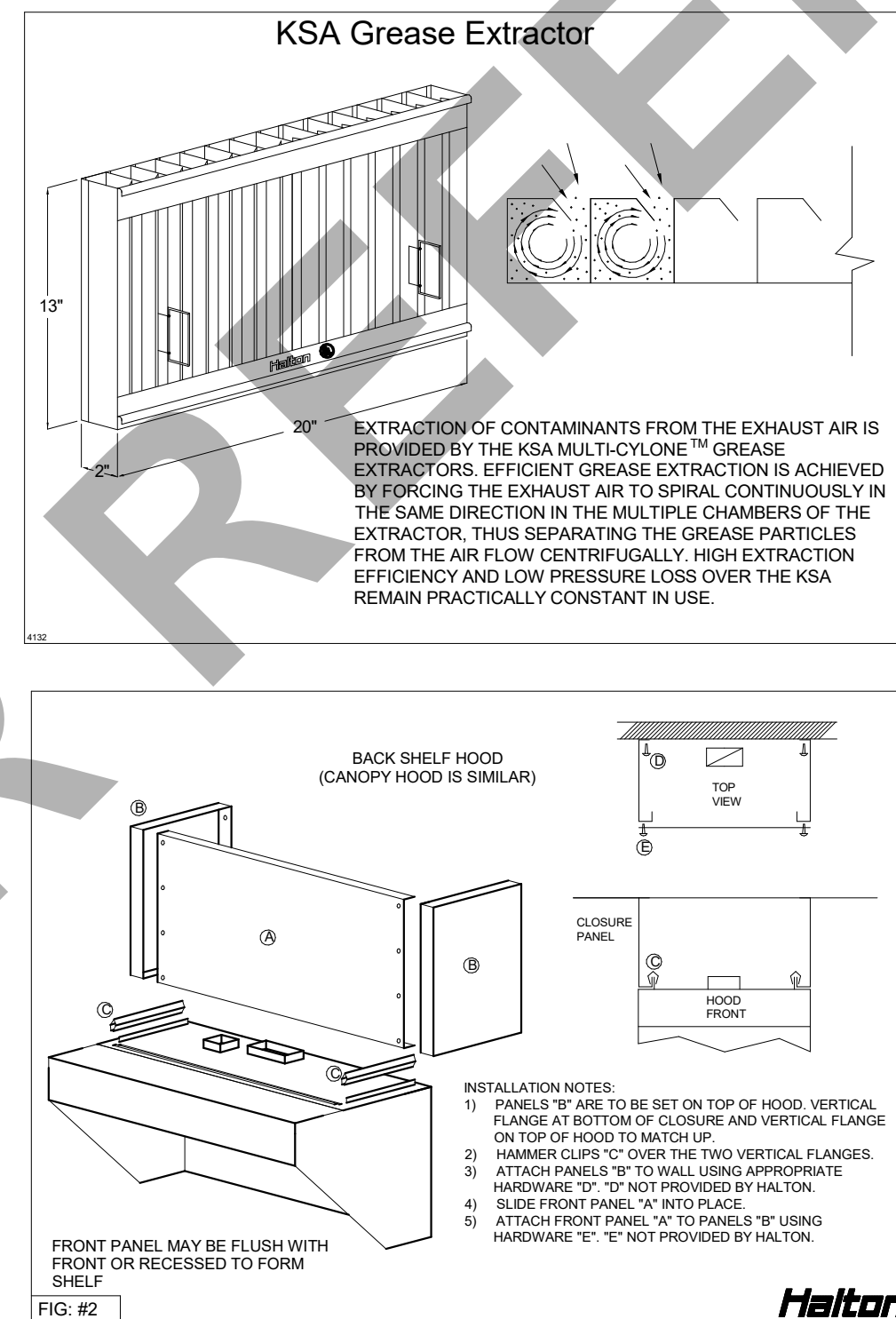
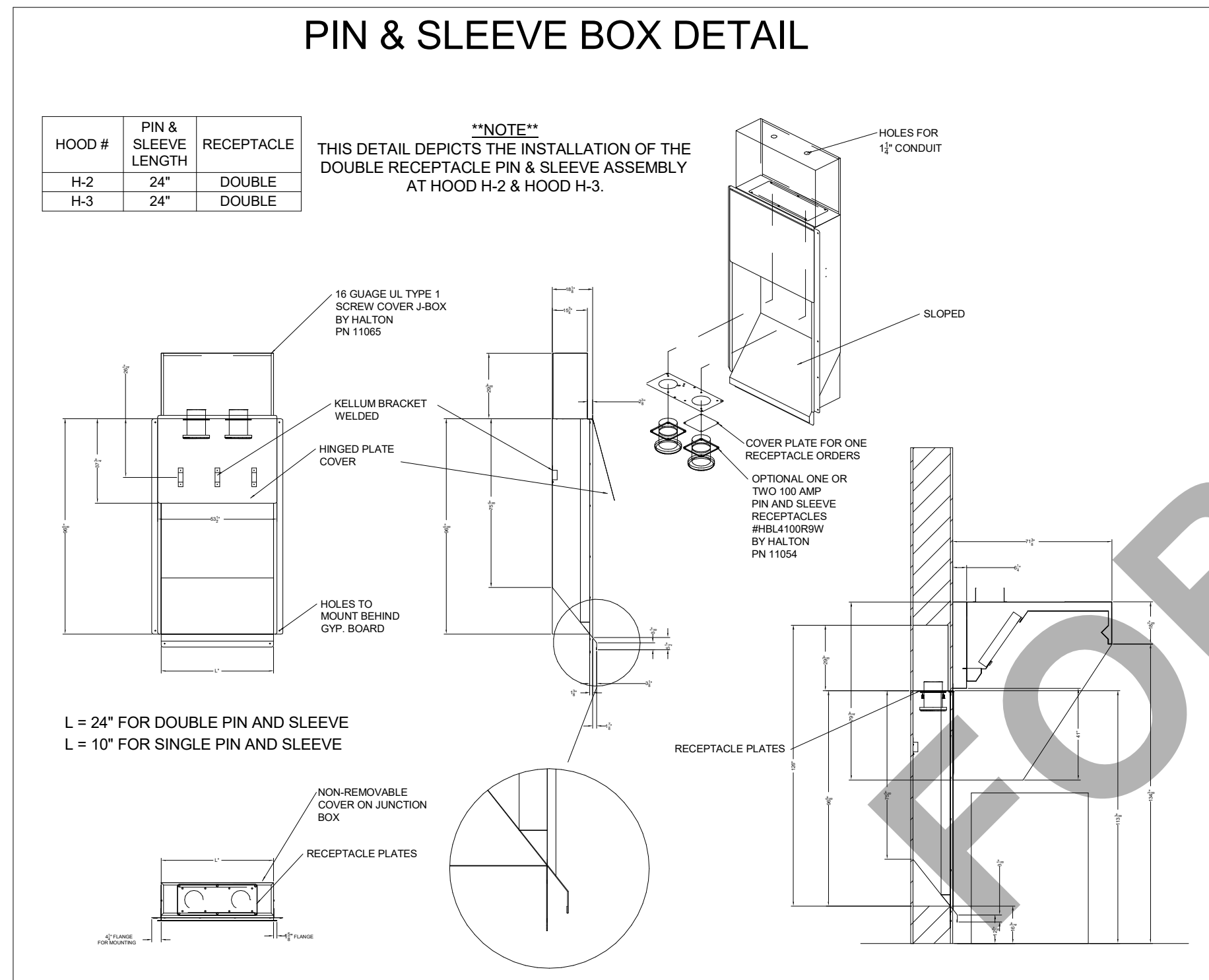
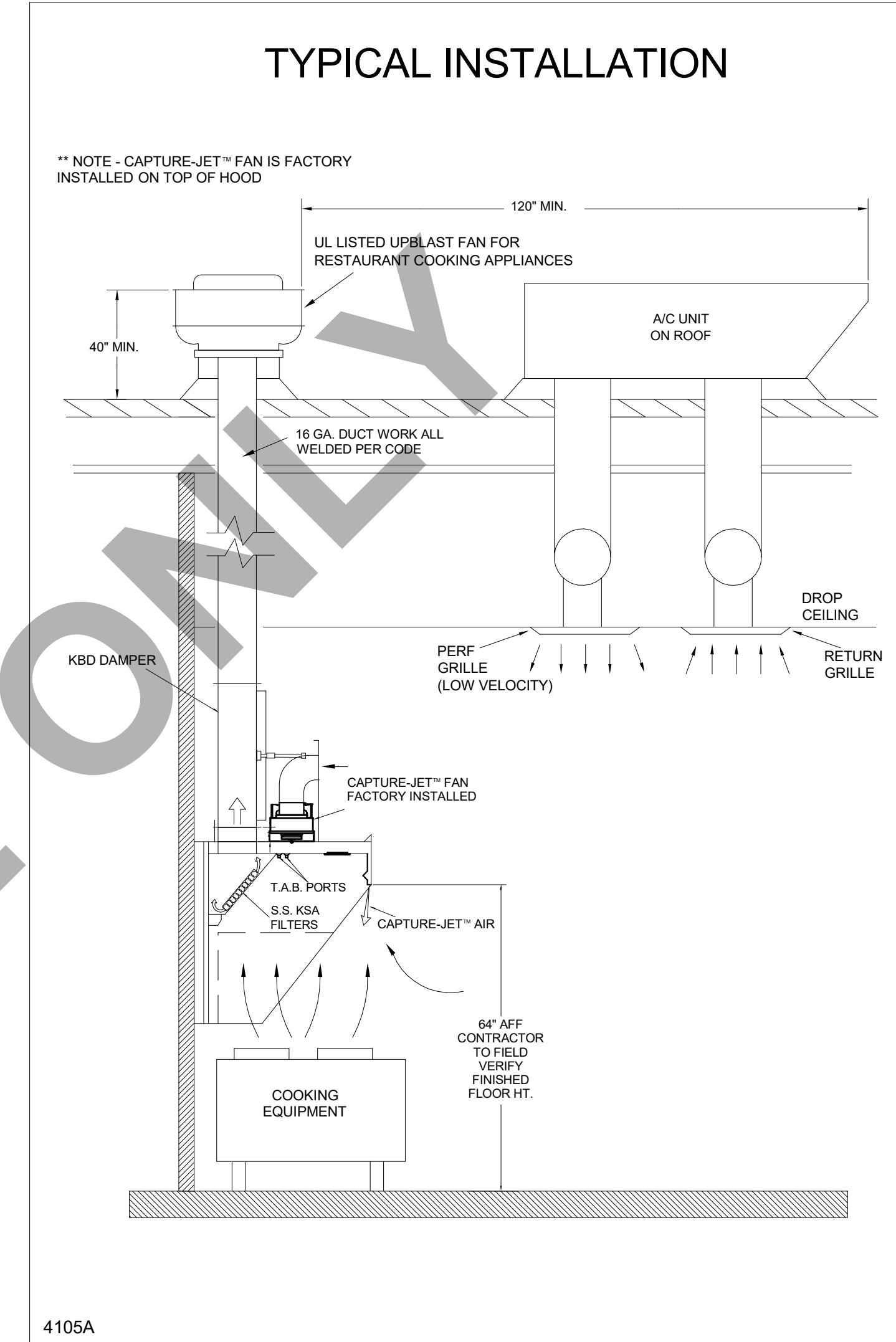
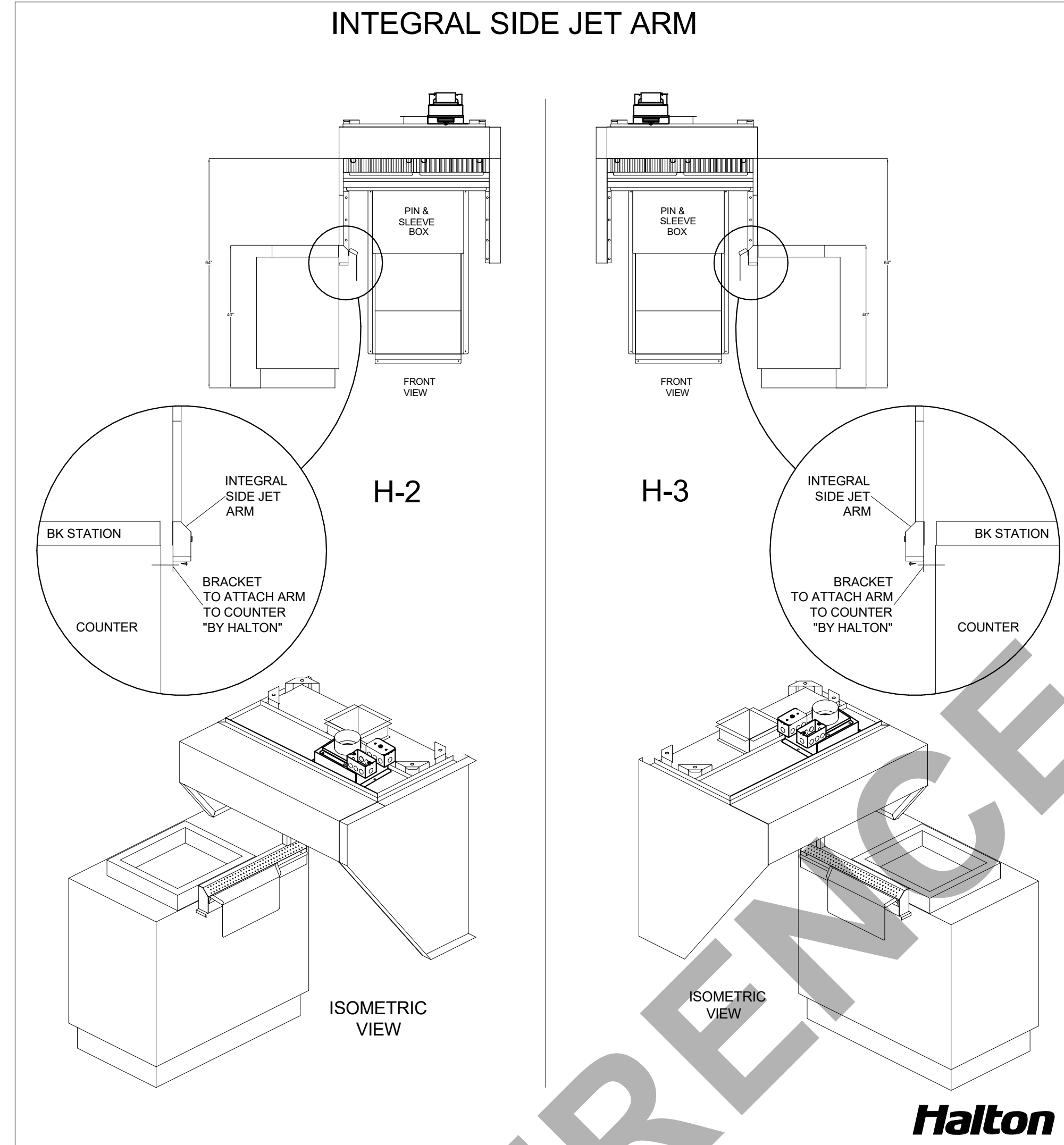
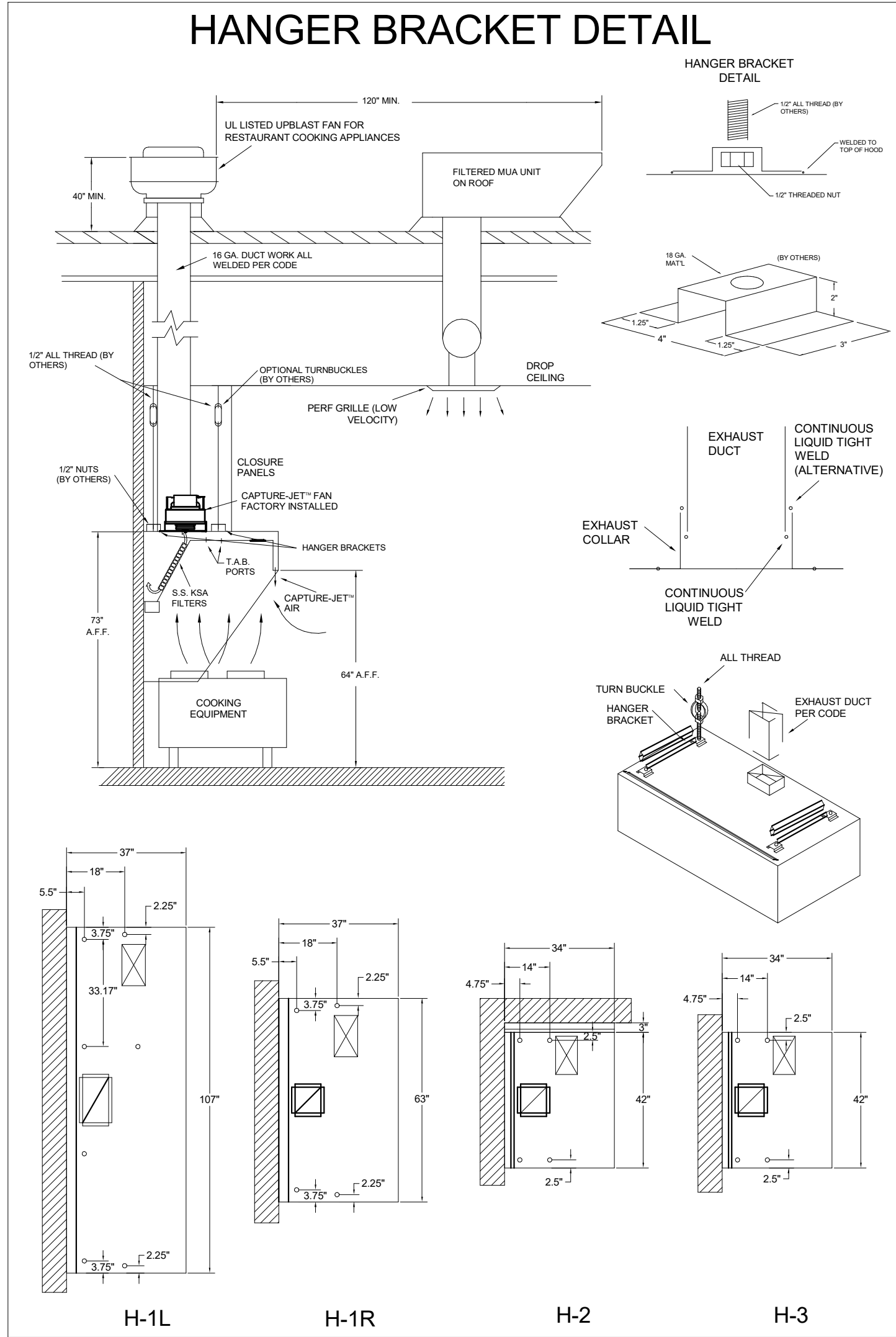
CHICK-FIL-A
DES PERES
11997 MANCHESTER RD
DES PERES, MO 63131

SRI#02665
BUILDING TYPE / SIZE: S08 (N)
RELEASE: 22-12

NO.	DATE	DESCRIPTION
06/21/2024	PERMIT	
10/01/2024	BID SET	
11/25/24	BID ADD 1	
11/25/24	CONSTRUCTION SET	

For Construction

CONSULTANT PROJECT # C291127
DATE: 06/21/2024
DRAWN BY: JRH
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HALTON HOOD SHOP DRAWING
SHEET NUMBER: **MH-101**



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

DUTY LEVEL	MINIMUM OVERSIGHT	MINIMUM OVERSIGHT	MINIMUM OVERSIGHT	MINIMUM OVERSIGHT
POINT IN	SIZE, IN	MIN	MAX	MIN. CLEARANCE TO OBSTACLE
MEDIUM	5	5	20	18
HEAVY	5	5	20	18
HEAVY	5	5	20	18
HEAVY	5	5	20	18

NSF Halton
CONFORMS TO UL STD. ETL LISTED PER LATEST 710 STANDARD
ULC STD 5646

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

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2. THE TYPE OF COOKING EQUIPMENT.
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REVISE AND RESUBMIT
 APPROVED FOR FABRICATION
 WITH CHANGES AS NOTED
 WITH NO CHANGES

APPROVED BY: _____ DATE: _____

REV.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

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MISSISSAUGA, ON L4W 3R7
1-905-624-5501

WEBSITE: www.halton.com

PROJECT: CHICK-FIL-A #2665
DES PERES
DRAWN BY: SKK
DATE: 06.06.24
SCALE: NOT TO SCALE

LOCATION: DES PERES, MO
DRAWN BY: SKK
DATE: 06.06.24
SCALE: NOT TO SCALE

Halton

DRAWING NO.: U24-461-02
SHEET NO.: H-1.2

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

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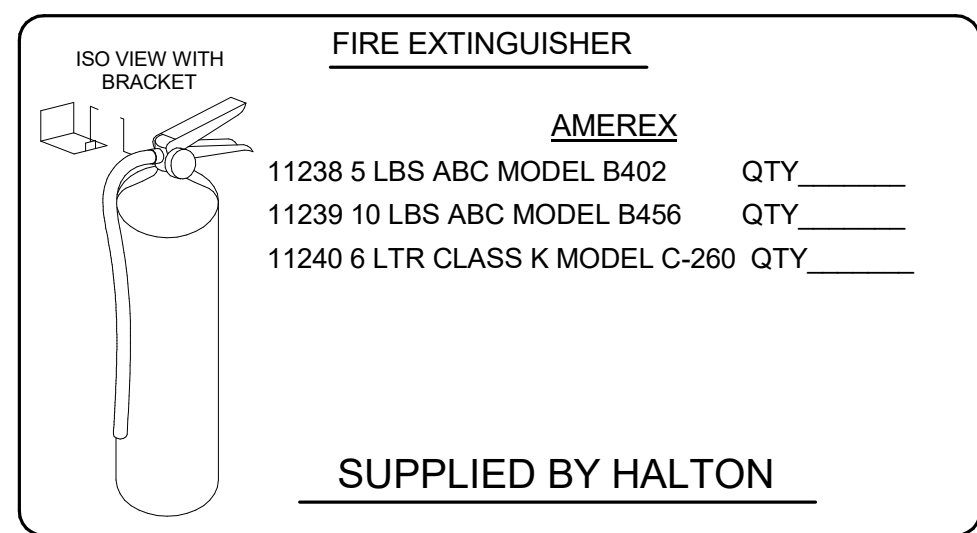
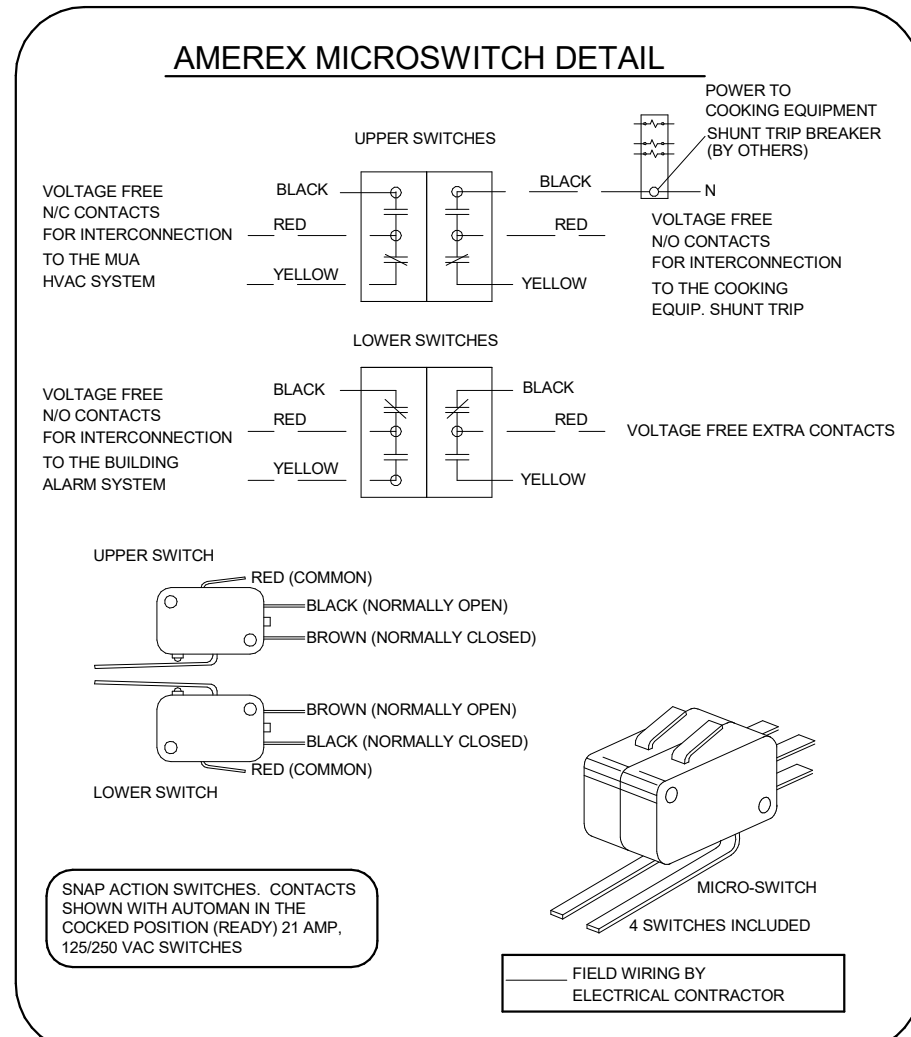
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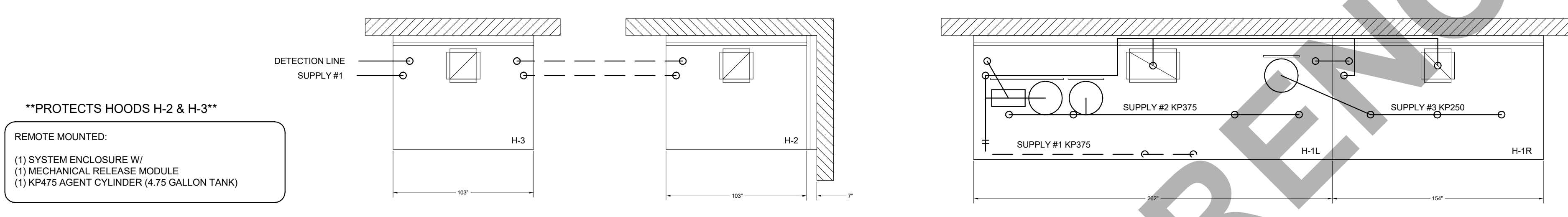
CHICK-FIL-A
DES PERES
11997 MANCHESTER RD
DES PERES, MO 63131

SRI#02665
BUILDING TYPE / SIZE: S08 (N)
RELEASE: 22-12
PRINTED FOR: CONSTRUCTION
REVISION SCHEDULE
NO. DATE DESCRIPTION
1 06/21/2024 PERMIT
2 11/01/2024 BID SET
3 11/25/24 BID ADD 1
4 11/25/24 CONSTRUCTION SET

For Construction
CONSULTANT PROJECT # C2911127
DATE 06/21/2024
DRAWN BY: Author
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HALTON HOOD SHOP DRAWING
SHEET NUMBER
MH-102



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



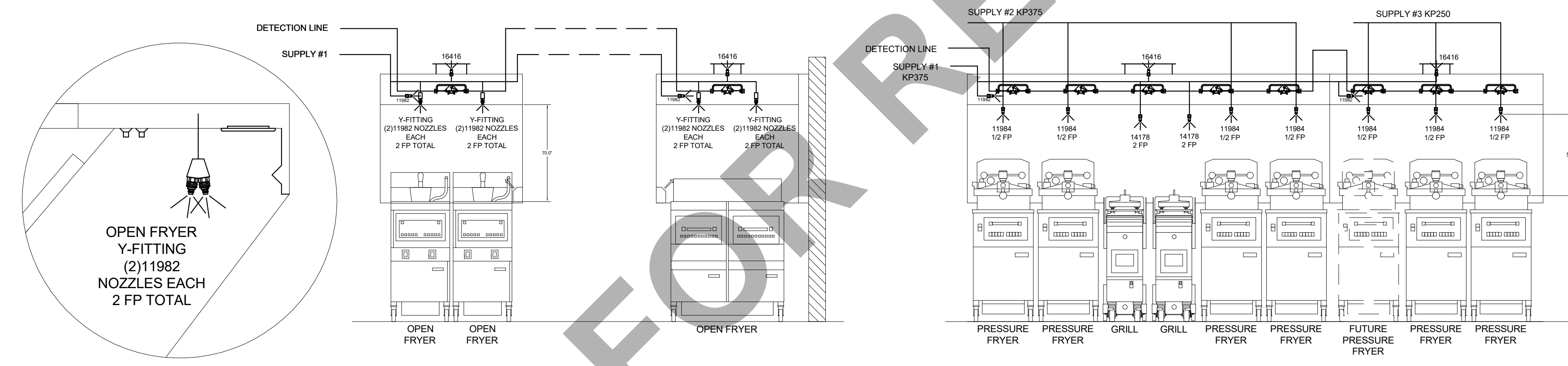
NOZZLE	ID	QTY	DESCRIPTION
16416	0R-0G	1 EA.	DUCT NOZZLES
11982	2R-0G	1 PER 10'	PLENUM NOZZLES
11982	Y-FITTING	1 FITTING WITH 2 NOZZLES PER FRYER	ALL OPEN FRYERS
11984	4R-0G	1 PER FRYER	ALL PRESSURE FRYERS
14178	0R-1G	1 PER GRILL	ALL GRILLS

AMEREX FIRE SYSTEM
A) (1) KP375 TANKS - 14 FLOW POINTS (REMOTE MOUNTED) (FOR HOOD H-2 & H-3)
B) 3/8" BLACK IRON PIPING WITH 3/8" S.S. APPLIANCE DROPS

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

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

PRESSURE FRYER AND GRILL NOZZLES WITH SWIVELS ONLY



AMEREX FIRE SYSTEM LAYOUT

AMEREX

FUSIBLE LINK RATINGS

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

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

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

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

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

AMEREX FIRE SYSTEM
UL LISTED PER STD LATEST STD 300

- 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 AMEREX INSTALLER
- REMOTE PULL STATION LOCATED PER MECHANICAL DRAWINGS

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1. ALL DIMENSIONS AND INFORMATION, MOUNTING POSITIONS AND CLEARANCES FOR ALL COOKING EQUIPMENT.
2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.

NOTE TO APPROVER:
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REVISION AND RESUBMIT WITH CHANGES AS NOTED
APPROVED FOR FABRICATION WITH NO CHANGES

APPROVED BY: _____ DATE: _____



REV.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		

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SCOTTSDALE, KY 42164
1-270-237-5500

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

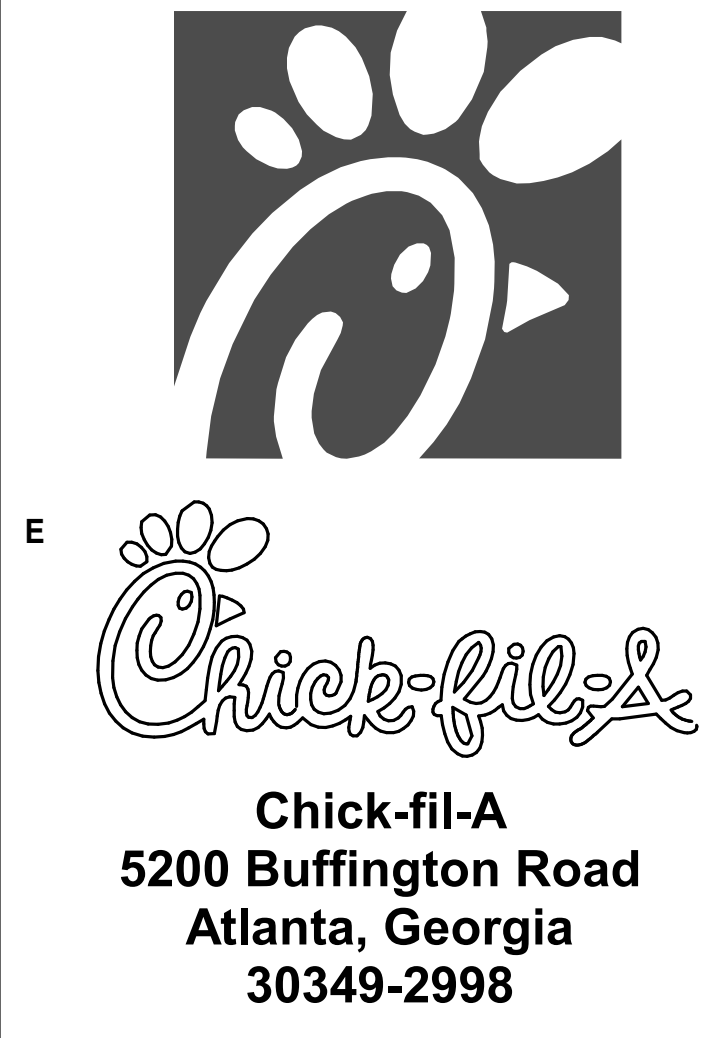
PROJECT: CHICK-FIL-A #2665
DES PERES

LOCATION: DES PERES, MO
DRAWN BY: SKK
SCALE: NOT TO SCALE

DATE: 06.08.24

Halton

DRAWING No.: U24-461-03
SHEET NO.: H-1.3



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CHICK-FIL-A
DES PERES
11997 MANCHESTER RD
DES PERES, MO 63131

SRI#02665
BUILDING TYPE / SIZE: S08 (N)
RELEASE: 22-12
PRINTED FOR: CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	06/21/2024	PERMIT
2	11/25/24	BID SET
3	11/25/24	BID ADD 1
4	11/25/24	CONSTRUCTION SET

CONSULTANT PROJECT # C2911127
DATE 06/21/2024
DRAWN BY: Author
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HALTON HOOD SHOP DRAWING
SHEET NUMBER
MH-103