

EXISTING CONDITIONS SHOWN ARE FROM PREVIOUS DRAWINGS. MECHANICAL CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS OF ALL DUCT AND DIFFUSERS. IF MAJOR DIFFERENCES OCCUR IN FIELD, CONTACT CHICK-FIL-A CONSTRUCTION MANAGER.

**DEMOLITION NOTES**

- ① CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL APPLICABLE FEES.
- ② DISPOSAL OF EQUIPMENT AND MATERIALS REQUIRED TO BE REMOVED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING THE WORK.
- ③ DE-ENERGIZE ALL ELECTRICAL CIRCUITS RELATED TO EQUIPMENT THAT WILL BE MOVED OR REMOVED PRIOR TO STARTING WORK. DE-ENERGIZED CIRCUITS SHALL BE PROTECTED WITH LOCKING DEVICES USING APPROPRIATE WARNING LABELS.
- ④ MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING ROOF AFTER REMOVAL OF EXISTING MECHANICAL EQUIPMENT. SEE ARCHITECTURAL DRAWINGS FOR ROOF PATCHING REQUIREMENTS.
- ⑤ EXCEPT WHERE NOTED, EXISTING REMOTE TEMPERATURE &/OR HUMIDITY SENSORS TO REMAIN. IF DURING RENOVATION PURPOSES CONTROLS SHALL BE TAKEN DOWN, MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REINSTALLING AND TO PROVIDE ANY ADDITIONAL WIRING NEEDED. VERIFY EXISTING UNIT CONTROLS ARE IN GOOD WORKING ORDER. IF NOT, CONTACT CHICK-FIL-A CONSTRUCTION MANAGER.
- ⑥ MECHANICAL CONTRACTOR SHALL REPLACE FILTERS FOR ALL RTUS AT END OF PROJECT AND PRIOR TO REOPENING. MC TO PROVIDE PROPOSAL TO FACILITIES MANAGER, CONSTRUCTION MANAGER, AND OPERATOR TO CORRECT EXISTING RTU PUNCH ITEMS IDENTIFIED BY HALTON.
- ⑦ CONTRACTOR SHALL INDICATE SALVAGE VALUE IN BID FOR ROOFTOP UNITS BEING REPLACED.

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

DEMOLITION LEGEND	
	EXISTING EQUIPMENT, DUCT, AIR DEVICE ETC. TO REMAIN INTACT
	EQUIPMENT, DUCT, AIR DEVICE ETC. TO BE DEMOLISHED

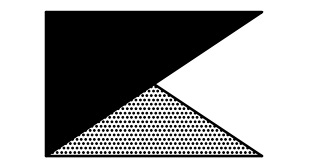
**DEMOLITION KEY NOTES**

- ① DETACH AND DEMOLISH EXISTING AIR DEVICE. SECURE DUCT ABOVE CEILING GRID FOR RE-CONNECTION. SEE SHEET M.II FOR NEW CONNECTION.
- ② DEMOLISH EXISTING HOOD, ALL ASSOCIATED GREASE DUCT, CAPTURE JET FAN AND DIFFUSER (IF EXISTING), EXHAUST FAN, AND ITS ASSOCIATED ROOF CURB. PATCH AND REPAIR ROOF TO MATCH SURROUNDING CONSTRUCTION.
- ③ EXISTING REMOTE TEMPERATURE AND/OR REMOTE HUMIDITY SENSORS TO BE REPLACED WITH NEW. DEMOLISH ASSOCIATED CONTROL WIRING. SEE SHEET M.II FOR FURTHER INFORMATION.
- ④ DETACH AND DEMOLISH EXISTING AIR DEVICE. DEMOLISH EXISTING BRANCH DUCT BACK TO PLENUM. SEAL PLENUM AIR-TIGHT.
- ⑤ DEMOLISH EXISTING DUCT SMOKE DETECTOR(S) AND REMOTE TEST/RESET STATION(S) AND ASSOCIATED CONTROL WIRING. SEE SHEET M.II FOR NEW.
- ⑥ DEMOLISH EXISTING KITCHEN A/C UNIT, UNIT CONTROLS (REMOTE TEMP SENSOR, REMOTE HUMIDITY SENSOR, T'STAT, REMOTE SMOKE DETECTOR TEST/RESET STATION, ETC.), SUPPLY/RETURN AIR DROPS, ALL ASSOCIATED SUPPLY/RETURN DUCT & AIR DEVICES (UNLESS NOTED OTHERWISE), AND ITS ASSOCIATED ROOF CURB. PATCH AND REPAIR ROOF TO MATCH SURROUNDING CONSTRUCTION.



*Chick-fil-A*

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**CHICK-FIL-A**  
**EASTGATE PLAZA**  
5156 STATE ROUTE 30  
Greensburg, PA 15601-7554

**FSR#02092**

BUILDING TYPE / SIZE: KK CONV  
RELEASE: v12.21

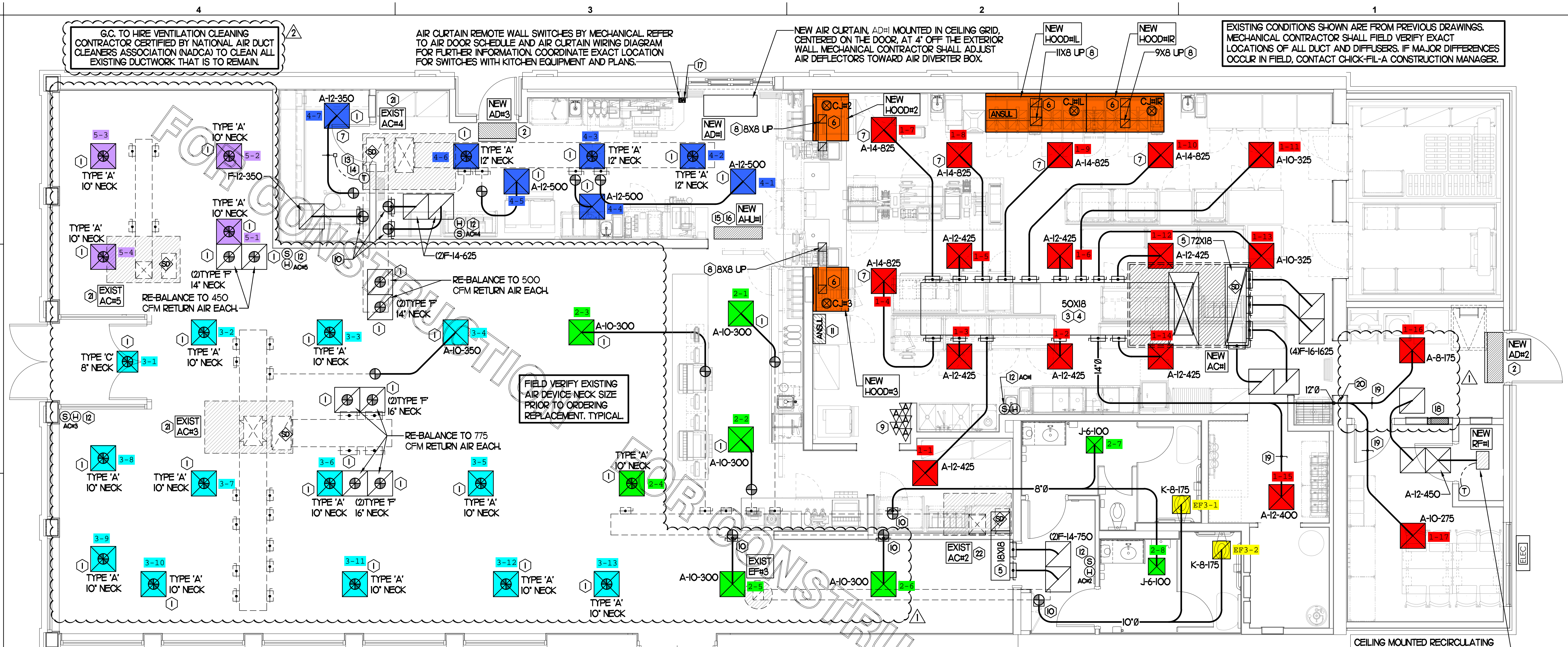
REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

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SHEET  
MECHANICAL  
DEMO PLAN  
SHEET NUMBER

**M0.1**

CONSTRUCTION



**LEGEND**

A-12-400	TYPE - NECK SIZE - CFM
⊕	SPIN-IN FITTING, MVD, NO SCOOP
⊙	REMOTE TEMPERATURE SENSOR
⊕	REMOTE HUMIDITY SENSOR
⊕	SMOKE DETECTOR
⊕	GREASE ACCESS DOOR TYPE
→	DIRECTION OF THROW
①	KEY NOTE REFERENCE
⊕	EXISTING START COLLAR
⊕	EXISTING RUNNOUT TO REMAIN
⊕	EXISTING RETURN/EXHAUST (TYP)
⊕	EXISTING SUPPLY DIFFUSER (TYP)
⊕	NEW RETURN/EXHAUST, UNO. (TYP)
⊕	NEW SUPPLY DIFFUSER, UNO. (TYP)
⊕	NEW DUCT (TYP)
⊕	SMOKE DETECTOR TEST/RESET STATION

**TOTAL AIR BALANCE SCHEDULE**

EQUIPMENT MARK	ACH1 (EXIST)	ACH2 (EXIST)	ACH3 (EXIST)	ACH4 (EXIST)	ACH5 (EXIST)	EF#1 (NEW)	EF#2 (NEW)	EF#3 (EXIST)	TOTAL
SERVES	KITCHEN	SIDE DINING	MAIN DINING	MAIN DINING	MAIN DINING	HOOD#1L HOOD#1R	HOOD#2 HOOD#3	REST-ROOMS	
SUPPLY AIR CFM	8,500	2,000	4,000	3,400	1,200				19,100
RETURN AIR CFM	6,500	1,500	3,100	2,600	900				14,600
OUTSIDE AIR CFM	2,000	500	900	800	300				4,500
EXHAUST CFM						1,912	1,402	350	-3,664
PRESSURIZATION									+836
REMARKS	ADJUST AND VERIFY BALANCE OF ALL HVAC EQUIPMENT IS AS SHOWN IN ORDER TO MAINTAIN BUILDING AIR BALANCE.								

**MECHANICAL FLOOR PLAN**  
SCALE: 1/4"=1'-0"

- SHEET NOTES**
- DUCT SIZES SERVING DIFFUSERS AND GRILLES ARE SAME SIZE AS DIFFUSER OR GRILLE NECK UNLESS NOTED OTHERWISE.
  - REFER TO ELEVATIONS ON M2.1 AND HOOD DETAILS ON M4.1 FOR CAPTURE-JET FANS DUCTING REQUIREMENTS.
  - HARDPIPE SHALL BE USED FOR ALL TAKE-OFFS EXCEPT WHERE ALLOWED BY DETAIL 1/M3.1. USE OF FLEXIBLE DUCT SHALL BE LIMITED TO THOSE SITUATIONS WHERE NO OTHER MEANS TO ACCOMPLISH ROUTING IS POSSIBLE.
  - COORDINATE NEW WORK WITH EXISTING CONDUITS, STRUCTURE AND 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.
  - MECHANICAL CONTRACTOR SHALL BALANCE HVAC SYSTEM AS SHOWN ON THIS PLAN & IN SCHEDULES ON SHEET M3.1. IF AIR FLOWS DIFFER BY MORE THAN 5%, CONTACT CFA CONSTRUCTION MANAGER. TEST AND BALANCE REPORT SHALL BE DONE PRIOR TO STORE TURNOVER AND SUBMITTED TO CFA'S CONSTRUCTION MANAGER.

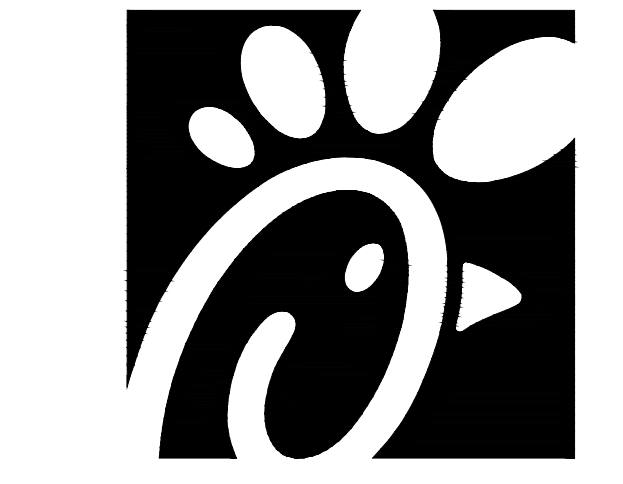
**KEY NOTES (THIS SHEET ONLY)**

- CONNECT NEW AIR DEVICE TO EXISTING TAKE-OFF. IF NECESSARY, MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL NEW DUCT IN ORDER TO MAKE CONNECTION TO AIR DEVICE IN NEW LOCATION. ANY FLEX DUCT USED SHALL NOT BE LONGER THAN 4'-0". SEE DETAIL 1/M3.1. COORDINATE AIR DEVICE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- AIR CURTAIN MOUNTED OVER DOOR HEADER AT 7'-2" AFF TO BOTTOM OF UNIT. PROVIDE BLOCKING IN WALL BEHIND AIR CURTAIN. USE FACTORY PRE-PUNCHED MOUNTING HOLES ON BACK SIDE OF AIR CURTAIN ONLY. ATTACH AIR CURTAIN TO WALL USING 3/8" LAG BOLTS, LENGTH AS REQUIRED TO FULLY PENETRATE BLOCKING. LOCATE MAGNETIC CONTACT TYPE MICROSWITCH IN DOOR FRAME ON STRIKE SIDE.
- BRANCH TAKE-OFFS SHALL NOT BE LOCATED CLOSER THAN 3'-0" FROM ANY ELBOW INCLUDING THE SUPPLY AIR DROP FROM CURB.
- TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. TRANSITION WITHIN CURB WHERE REQUIRED TO AVOID STRUCTURE. PROVIDE TURNING VANES IN ELBOWS, INCLUDING THE SUPPLY AIR DROP FROM UNIT.
- TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. TRANSITION WITHIN CURB WHERE REQUIRED TO AVOID STRUCTURE. NO TURNING VANES IN ELBOW.
- HALT ON MVD DAMPER AT HOOD COLLAR BY MECHANICAL CONTRACTOR. REFER TO SHEET M2.1 AND M4.1 FOR FURTHER INFORMATION.
- MECHANICAL CONTRACTOR TO ADJUST PATTERN DEFLECTORS TO THROW STRAIGHT DOWN.
- GREASE DUCT UP THRU ROOF FROM FULL SIZE OF MVD COLLAR. OFFSETS THRU ROOF NOT TO BE GREATER THAN 45 DEGREES. SEE SHEET M1.2 FOR CONTINUATION.
- MOUNT NEW SMOKE DETECTOR TEST/RESET STATIONS FOR ALL A/C UNITS ON WALL. COORDINATE EXACT LOCATION WITH KITCHEN ELEVATIONS AND ELECTRICAL. CONTACT SUNCOAST ENVIRONMENTAL CONTROLS AT 1-877-544-6679 TO PURCHASE A NEW SMOKE DETECTOR TEST/RESET STATIONS FOR EACH RTU.
- PROVIDE & INSTALL NEW SPIN-IN COLLAR AND ROUTE NEW DUCT TO NEW GRILLE AS SHOWN.
- ANSUL UTILITY CABINET. LOCATE TOP OF CABINET 0'-2" BELOW CEILING. COORDINATE FINAL MOUNTING LOCATION WITH KITCHEN EQUIPMENT.
- MOUNT NEW REMOTE TEMP SENSOR AND NEW LENNOX/TRANE HUMIDITY SENSOR FOR ROOFTOP UNIT AS NOTED BELOW (OR ABOVE WAINSCOTING IF APPLICABLE). ROUTE NEW WIRING FOR NEW REMOTE TEMP SENSOR TO NEW TSTAT IN CFA T500 PANEL. ROUTE NEW WIRING FOR NEW LENNOX/TRANE HUMIDITY SENSOR TO UNIT ON ROOF. REFER TO WIRING DIAGRAMS ON SHEET M4.2.
  - ACH1: MOUNT NEW REMOTE TEMP SENSOR ON WALL AT 5'-8" AFF. COORDINATE FINAL MOUNTING LOCATION IN FIELD WITH KITCHEN EQUIPMENT, SHELVEING, AND ELECTRICAL. MOUNT NEW HUMIDITY SENSOR DIRECTLY ABOVE REMOTE TEMP SENSOR.
  - ACH2, ACH4, & ACH5: MOUNT NEW REMOTE TEMP SENSOR ON WALL AT 5'-0" AFF. MOUNT NEW HUMIDITY SENSOR DIRECTLY ABOVE REMOTE TEMP SENSOR.
  - ACH3: MOUNT NEW REMOTE TEMP SENSOR AND NEW HUMIDITY SENSOR IN THE SAME LOCATION AS DEMOLISHED SENSORS.

**H.E.S. SYSTEM**  
MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL SUNCOAST H.E.S. SYSTEM FOR ALL NEW HOODS. SEE HOOD FAN/EQUIPMENT INTERLOCK WIRING DIAGRAM ON SHEET M4.1 FOR MORE INFORMATION.

HOLD DUCT AT ACH1 AS HIGH AS POSSIBLE DUE TO LIMITED CLEARANCE ABOVE CEILING.

CEILING MOUNTED RECIRCULATING FAN. PROVIDE WITH VIBRATION ISOLATORS AND HANG FROM STRUCTURE USING ATR. ROUTE DUCT FROM EF TO DIFFUSER AS SHOWN. MOUNT TSTAT AT 48" AFF.



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2-14-23

**CHICK-FIL-A**  
**EASTGATE PLAZA**  
5156 STATE ROUTE 30  
Greensburg, PA 15601-7554

**FSR#02092**

BUILDING TYPE / SIZE: KK CONV  
RELEASE: v12.21

**REVISION SCHEDULE**

NO.	DATE	DESCRIPTION
1	10/28/22	Operator Comment
2	01/31/23	CD Coordination

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SHEET  
MECHANICAL FLOOR PLAN  
SHEET NUMBER

**M1.1**

**CONSTRUCTION**

4

3

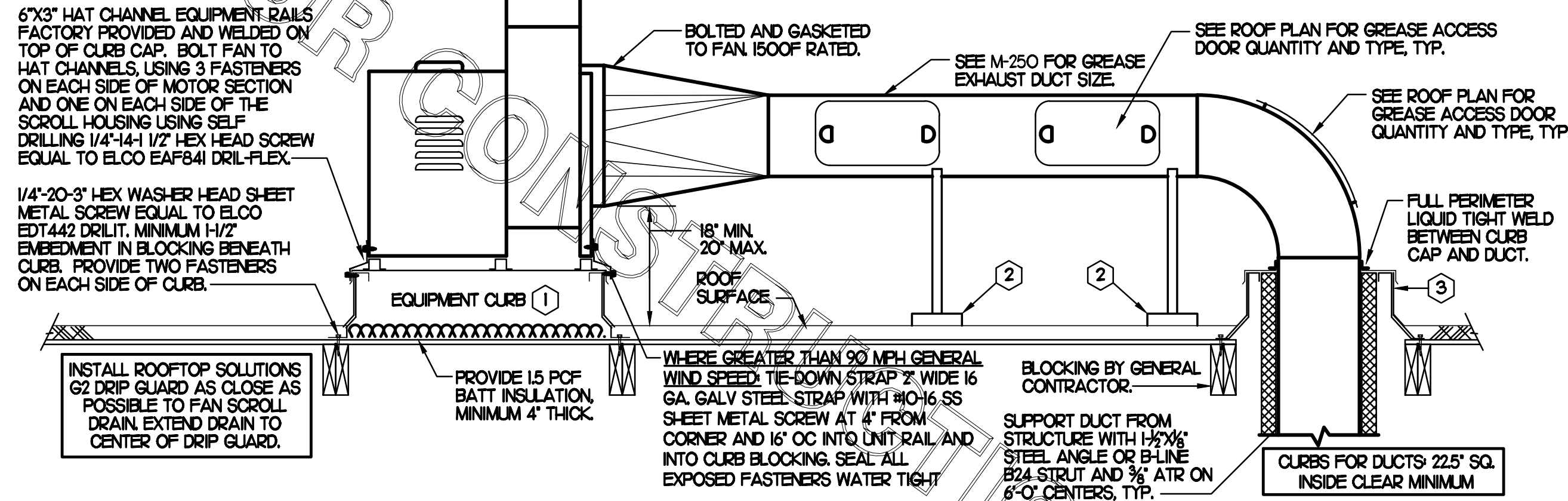
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1

FABRICATE 18 GA STAINLESS NOZZLE INLET FULL SIZE OF FAN DISCHARGE 1'-0" MINIMUM NOZZLE HEIGHT, TERMINATE 0'-2" ABOVE HIGHEST PARAPET WITHIN 10'-0".

**KEYED NOTES:**

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



**2 KITCHEN HOOD EXHAUST FAN - UTILITY SET FAN**  
NO SCALE

**SHEET NOTES**

- ALL DUCTWORK AND UNFINISHED METAL ON ROOF EXCEPT STAINLESS SHALL BE PREPARED WITH TWO COATS OF SHERWIN WILLIAMS B66-200 SERIES DTM WHITE ACRYLIC SEMI-GLOSS INDUSTRIAL MAINTENANCE COATING, DEGREASE AND PRIME BARE METAL SURFACE WITH ONE COAT OF SHERWIN WILLIAMS DTM PRIMER PRIOR TO PAINTING.
- AT EACH PIECE OF ROOF EQUIPMENT, PROVIDE A PLASTIC ENGRAVED LABEL WITH 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. THE LABEL IS TO HAVE A SELF-ADHESIVE BACKING.
- MAINTAIN 18" CLEARANCE FROM GREASE EXHAUST DUCTWORK ABOVE ROOF TO ANY COMBUSTIBLE CONSTRUCTION INCLUDING PARAPET WALLS.

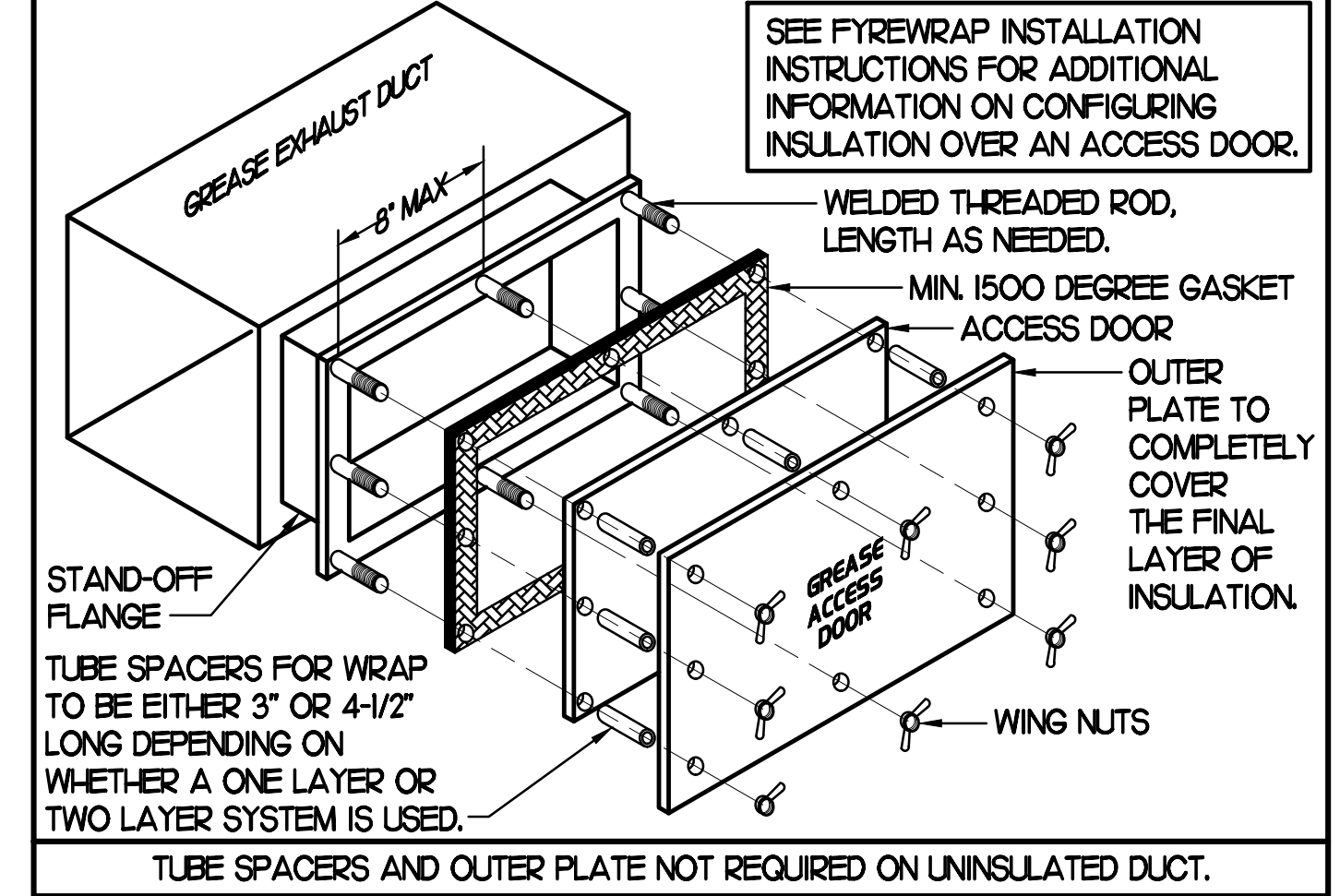
**KEY NOTES**

- FABRICATE DISCHARGE AIR NOZZLE. LOCATE EXHAUST TERMINATION A MINIMUM 10'-0" FROM OUTSIDE AIR INTAKES. SEE DETAIL 2 THIS SHEET.
- GREASE EXHAUST DUCT LOCATED ON ROOF SHALL SLOPE 1/4" PER FOOT TOWARDS THE HOOD, THE FAN, OR A COMBINATION OF THE TWO SUCH THAT NO PORTION OF THE RADIUS ELBOW AT THE CURB IS BELOW THE CURB CAP AND SUCH THAT THE FAN BASE SETS DIRECTLY ON THE CURB RAILS. THE BOTTOM OF THE RADIUS ELBOW MAY BE EVEN FLUSH WITH THE CURB CAP, BUT NOT BELOW THE CAP. THE DUCT AT THE FAN MUST BE CENTERED ON THE FAN INLET. THE MC MAY ADD A VERTICAL RISER AT THE RADIUS ELBOW LOCATED AT THE DUCT CURB AS NEEDED IN ORDER TO CENTER THE DUCT ON THE FAN INLET.

**GREASE ACCESS DOOR SCHEDULE**

MARK	OPENING SIZE	DOOR SIZE	REMARKS
A	7.5H X 14W	9.5H X 16W	I
B	5.5H X 14W	7.5H X 16W	I
C	9.5H X 14W	11.5H X 16W	I
D	6.5H X 14W	8.5H X 16W	I
E	8.5H X 14W	10.5H X 16W	I

I. ACCESS DOORS SHALL BE UL-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 BRETON INDUSTRIES, INC (800) 382-2491.



Chick-fil-A

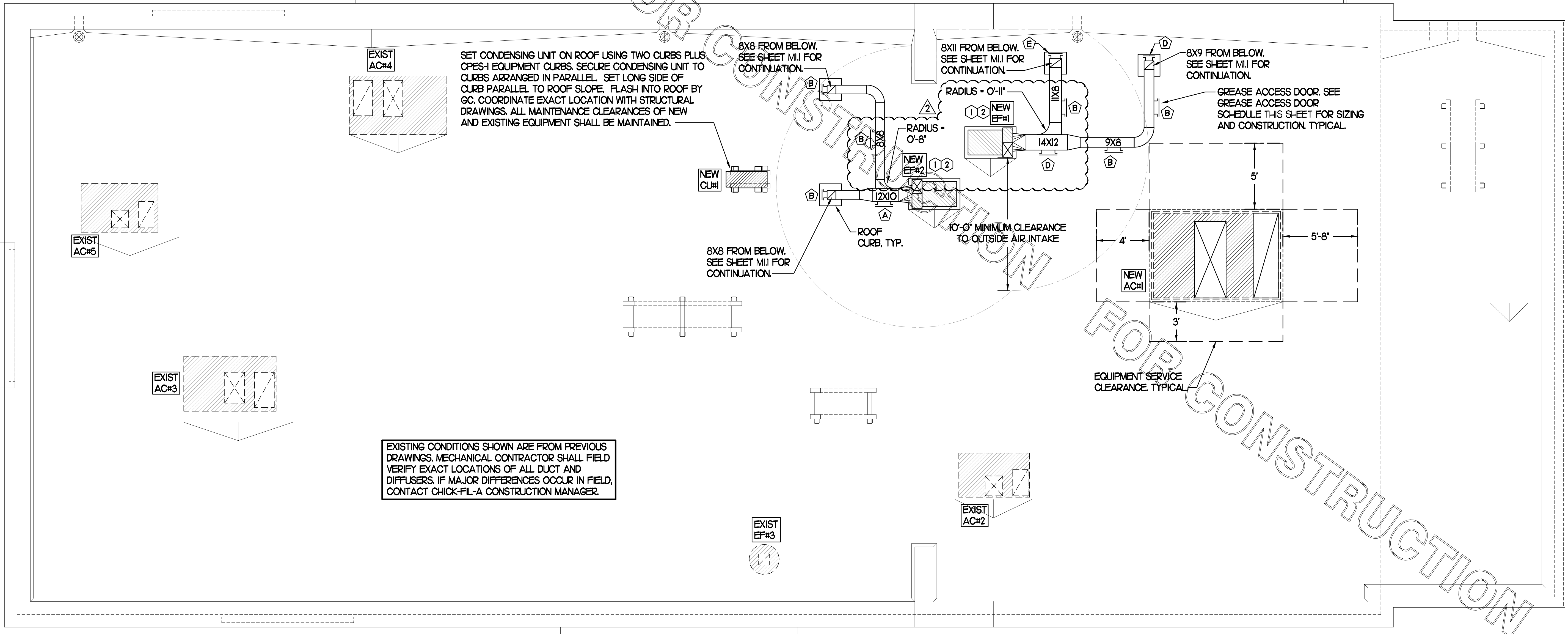
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**MECHANICAL ROOF PLAN**

SCALE: 1/4"=1'-0"

CONSTRUCTION

**CHICK-FIL-A**  
EASTGATE PLAZA  
5156 STATE ROUTE 30  
Greensburg, PA 15601-7554

**FSR#02092**

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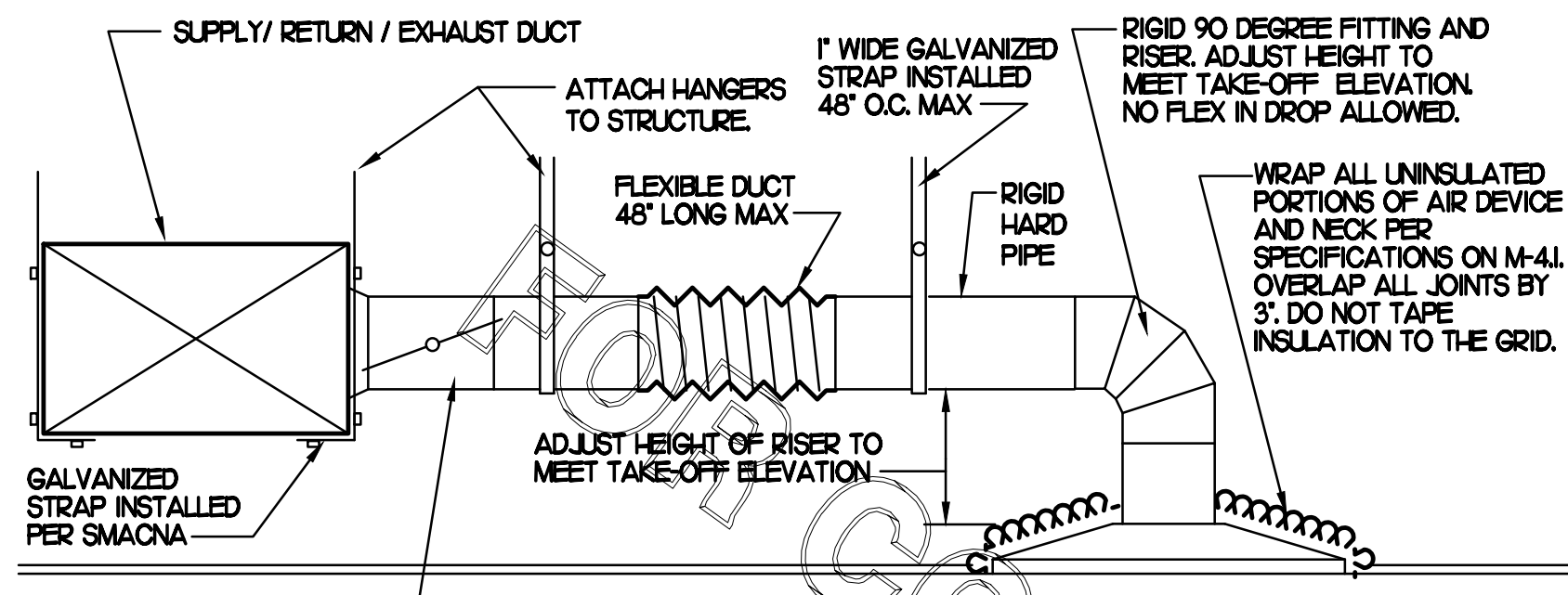
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SHEET MECHANICAL ROOF PLAN  
SHEET NUMBER

**M1.2**

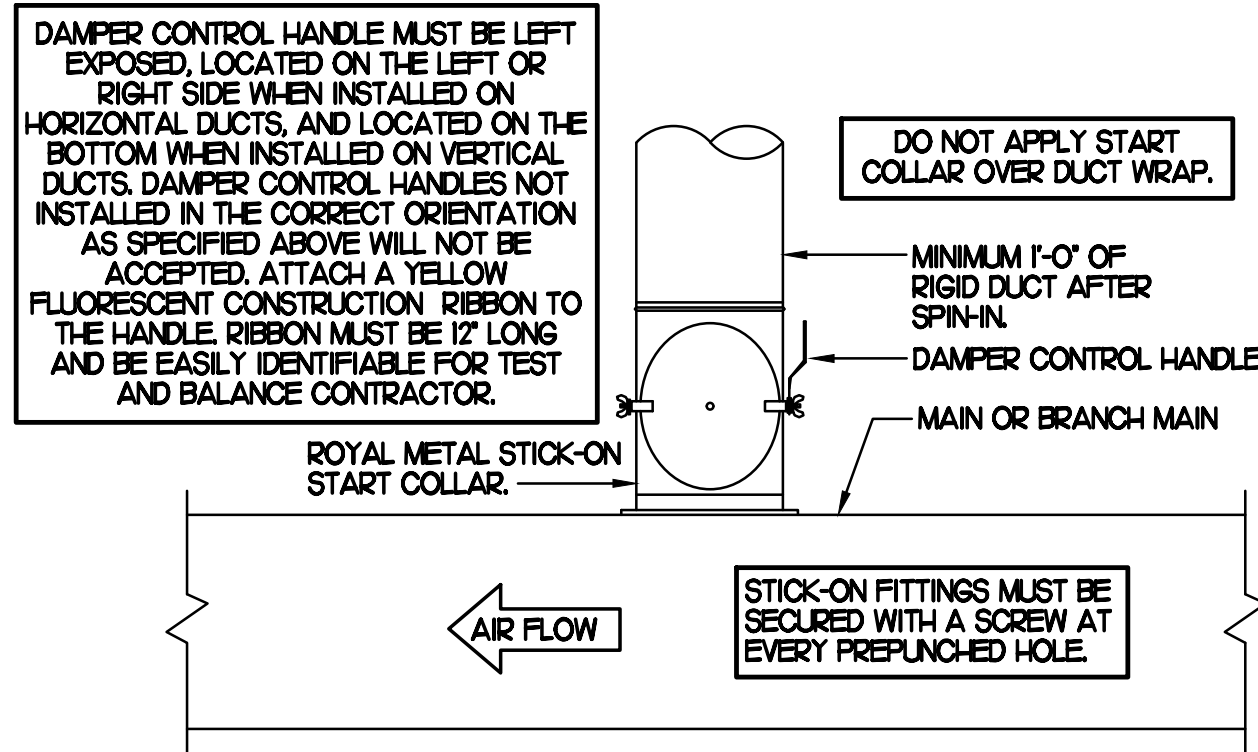




### 1 SAG/RAG/GRILLE TAKE-OFF

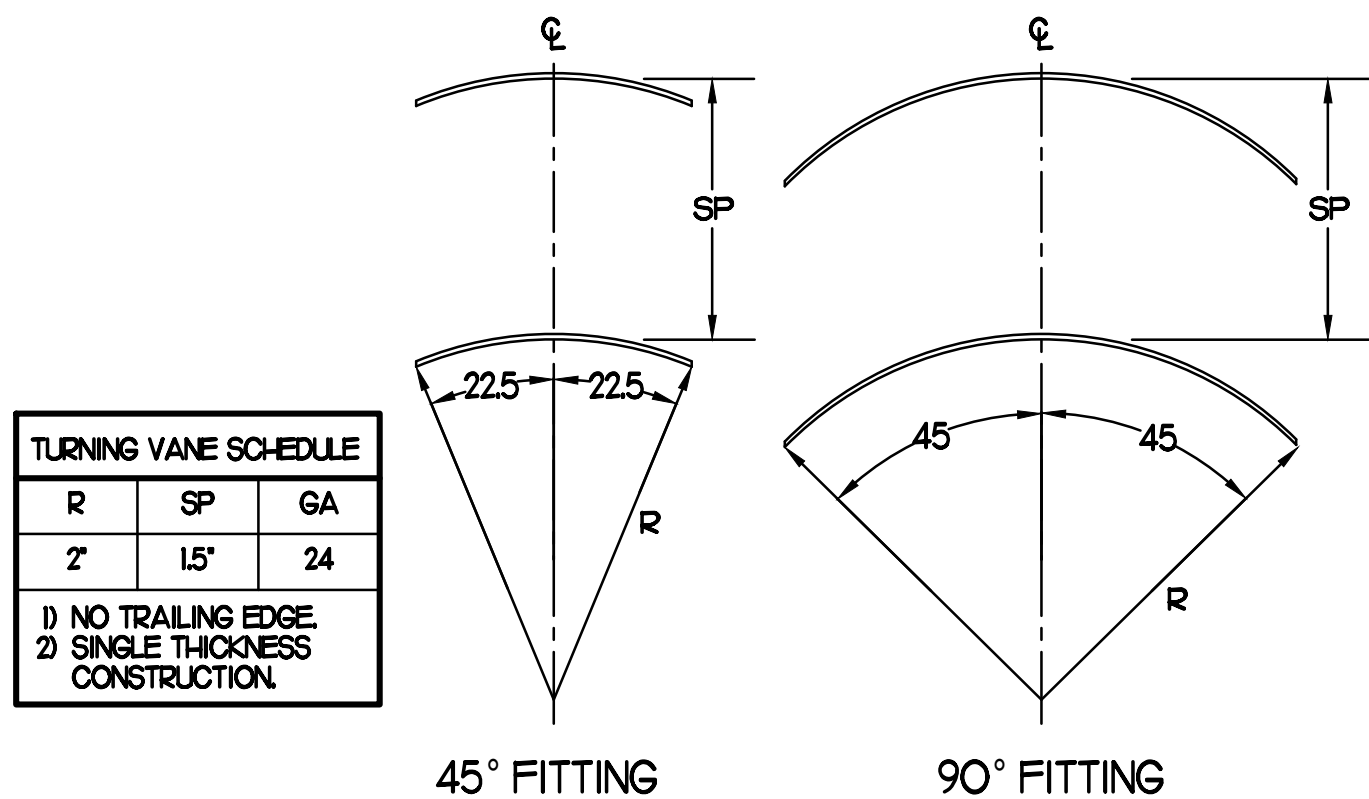
NO SCALE

CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE ROYAL METAL START COLLARS. THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE ROYAL METAL START COLLARS DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-0100 FOR PRICING AND AVAILABILITY. ROYAL METAL START COLLARS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.



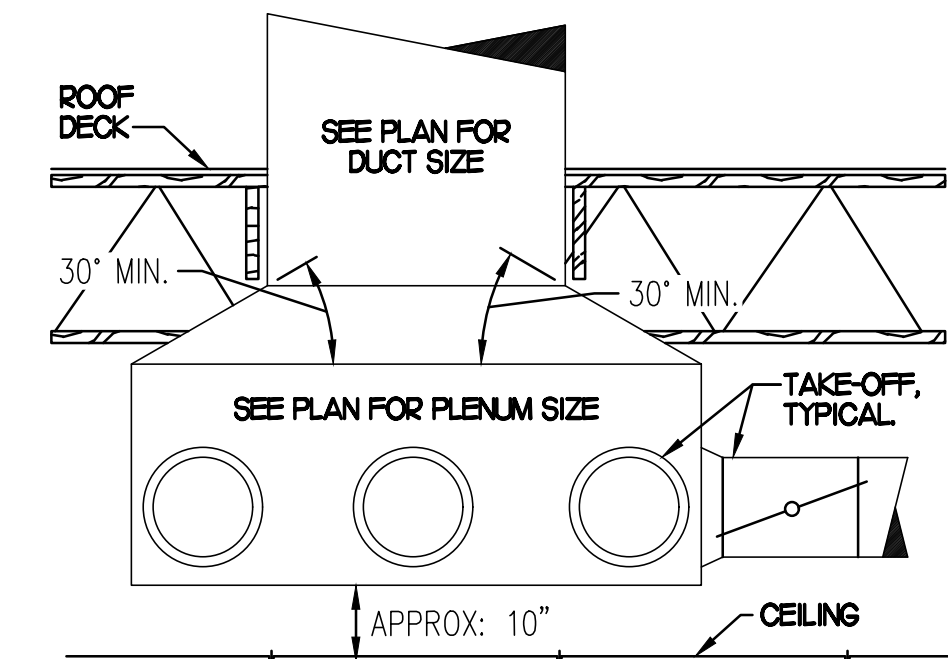
### 2 START COLLAR

NO SCALE



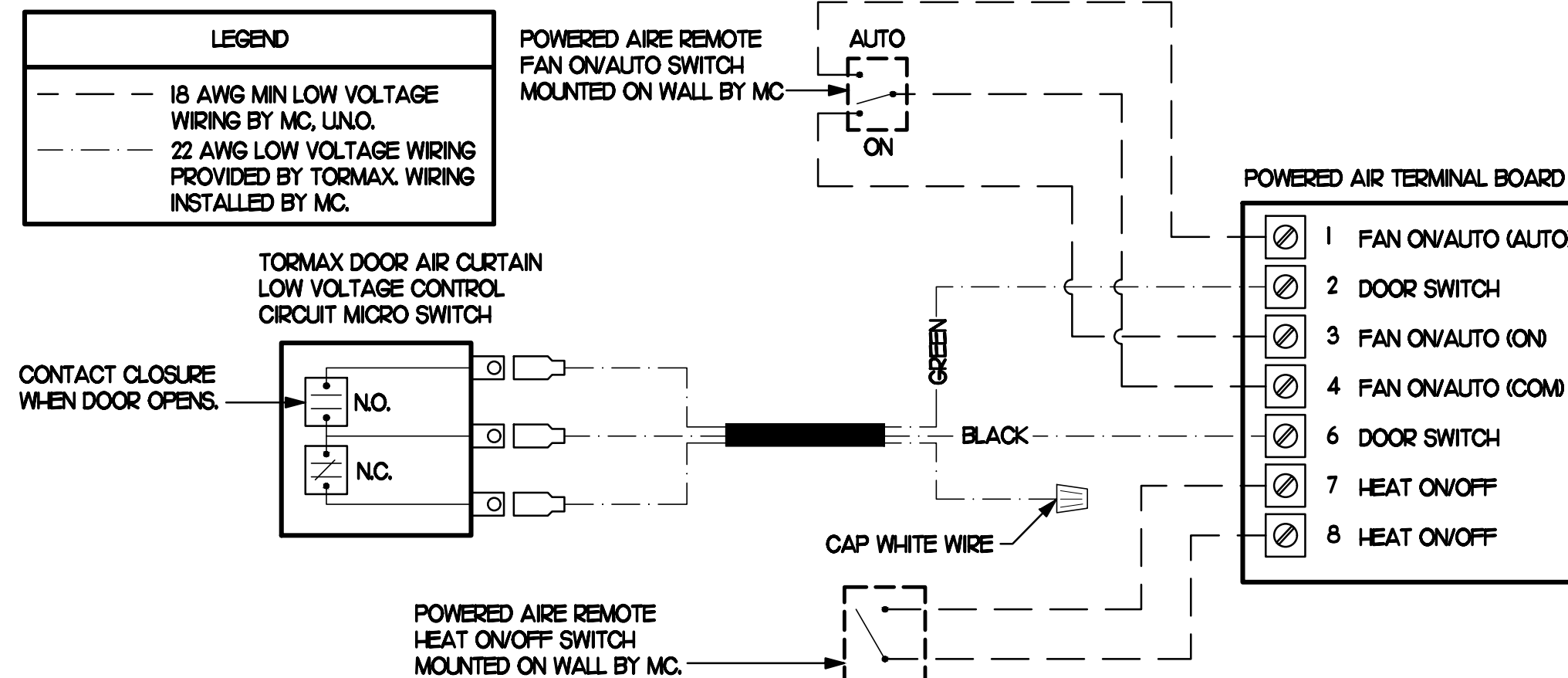
### 3 TURNING VANES

NO SCALE



### 5 RETURN DROP GEOMETRY

NO SCALE



### 4 AIR CURTAIN WIRING DIAGRAM

NO SCALE

### AIR DOOR SCHEDULE

MARK	CFM	VELOCITY	HEATING CAP	HP	AREA SERVED	MODEL	MANUFACTURER	REMARKS
ADH (NEW)	1543	2398	10 KW	3/4	DRIVE THRU	CHA-148D	POWERED-AIRE	2-5
ADH2 (NEW)	3,867	4,220	NA	3/4	REAR DOOR	RBT-148	POWERED-AIRE	1
ADH3 (NEW)	2,899	4,220	NA	3/4	DRIVE THRU DOOR	RBT-136	POWERED-AIRE	1

NOTES

- CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE AIR DOORS. THE MECHANICAL CONTRACTOR SHALL PURCHASE THE AIR DOORS DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-0100, FOR PRICING AND AVAILABILITY. AIR DOORS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.

REMARKS

- FACTORY PROVIDED MAGNETIC DOOR CONTACT WITH FACTORY INSTALLED LOW VOLTAGE CONTROLS LOCATED IN AIR DOOR CABINET.
- FACTORY PROVIDED, WIRED, AND UNIT MOUNTED SPEED CONTROLLER LOCATED ABOVE CEILING.
- FACTORY WIRED DISCONNECT.
- FACTORY PROVIDED, FIELD INSTALLED REMOTE WALL SWITCHES FOR HEATING ON/OFF AND FAN ON/AUTO SWITCH. SEE AIR CURTAIN WIRING DIAGRAM DETAIL THIS SHEET.
- PROVIDE WITH DIVERTER BOX FROM TOM BARROW COMPANY. PROVIDE WITH MOUNTING BRACKETS PER MANUFACTURER'S RECOMMENDATIONS. INSTALL PER MANUFACTURER'S MOUNTING INSTRUCTIONS.

### 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 AREA KITCHEN	SEE PLAN	24X24	LAY-IN	I7
C	PRICE MODEL SMCD STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	ENTRYS	14X14	20X20	BEVELLED	I3,5,6
F	PRICE MODEL 80 EGGRATE RETURN AIR GRILLE WITH REMOVABLE WHITE CORE. FACTORY FLAT BLACK BACKPAN AND ROUND NECK.	DINING KITCHEN	SEE PLAN	24X24	LAY-IN	I7
J	PRICE MODEL SMCD STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	RESTROOMS	10X10	16X16	BEVELLED	I2,3,5,6
K	PRICE MODEL APDR ALUMINUM PERFORATED FACE RETURN AIR GRILLE.	RESTROOMS ENTRYS	14X14	17X17	SURFACE	I4,5,6

NOTES

- MECHANICAL CONTRACTOR SHALL PURCHASE THE AIR DEVICES DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-0100, FOR PRICING AND AVAILABILITY. AIR DEVICES NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.

REMARKS

- STANDARD OFF WHITE FINISH.
- PROVIDE MODEL VCS3 NECK DAMPER.
- SEE DRAWING M11 FOR THROW.
- PROVIDE MODEL VCR7 NECK DAMPER ON GRILLES IN RESTROOMS.
- PROVIDE BACKPAN MC TO SEAL JOINTS WITH MASTIC AND INSULATE EXTERNALLY.
- FIELD INSULATE BACKPAN AS SHOWN ON DETAIL 1/M3.1.
- FACTORY INSULATED R-6 BACKPAN.

### GAS FIRED ROOFTOP UNIT SCHEDULE

MARK	COOLING CAPACITY (MBH)		HEATING CAPACITY (MBH)		FAN SECTION (CFM)				MODEL	MANUFACTURER	REMARKS	
	TOTAL	SEN5	INPUT	OUTPUT	STAGES	SUPPLY	O.A.	HP				ESP
ACH (NEW)	278.3	208.5	400.0	320.0	2	8,500	2,000	7.5	1.0	YHD900G3RH	TRANE	H5
ACH2 (EXIST)	-	-	-	-	-	2,000	500	-	-	-	EXISTING	-
ACH3 (EXIST)	-	-	-	-	-	4,000	900	-	-	-	EXISTING	-
ACH4 (EXIST)	-	-	-	-	-	3,400	800	-	-	-	EXISTING	-
ACH5 (EXIST)	-	-	-	-	-	1,200	300	-	-	-	EXISTING	-

NOTES

- COOLING CAPACITIES ARE GROSS, BASED ON INDOOR EDB 80F, INDOOR EWB 67F, OUTDOOR EDB 95F.
- FOR PROPER BUILDING AIR BALANCE, VERIFY AMOUNT OF OUTSIDE AIR PROVIDED BY ALL EXISTING UNITS. ADJUST AS PER SCHEDULE IF NECESSARY.
- VERIFY MIN 10' DISTANCE OF O.A. INTAKE OPENINGS OF A/C UNITS FROM ANY EXISTING SOURCE OF AIR POLLUTION (EXHAUST FAN, COMBUSTION FLUE, VENT ETC). IF SUCH CONDITIONS EXIST, CONTRACTOR IS REQUIRED TO DUCT OUTSIDE AIR INTAKE ON ROOF AWAY FROM ANY SUCH SOURCE.

REMARKS

- PROVIDE DIFFERENTIAL ENTHALPHY ECONOMIZER WITH FIELD INSTALLED POWER EXHAUST.
- PROVIDE FACTORY INSTALLED NON-FUSED DISCONNECT.
- PROVIDE FACTORY INSTALLED AND UNIT POWERED 15V GFI SERVICE OUTLET.
- PROVIDE FACTORY INSTALLED RETURN SIDE SMOKE DETECTOR.
- 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 INSTALLED COIL HAIL GUARD.
- PROVIDE HOT GAS RE-HEAT OPTION AND FACTORY PROVIDED REMOTE HUMIDITY SENSOR (BAYSENSO36GA).
- PROVIDE WITH FACTORY INSTALLED CONDENSATE DRAIN PAN OVERFLOW SWITCH.
- PROVIDE WITH FACTORY INSTALLED MULTI-SPEED FAN OPTION.
- PROVIDE FACTORY SUPPLY AIR TEMPERING KIT.
- PROVIDE HIGH FALLT SCOR (65K).
- FACTORY PROVIDED, FIELD INSTALLED HIGH STATIC DRIVE KIT.
- PROVIDE 14" HIGH ROOF CURB.

### RECIRCULATING FAN SCHEDULE

MARK	CFM	ESP	RPM	HP (WATTS)	AREA SERVED	MODEL	MANUFACTURER	REMARKS
RFH (NEW)	450	0.30	1148	58 W	DTT CLOSET	6CVF-700	LOREN COOK	I-4

NOTES

- CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR FANS PACKAGE. MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE FANS PACKAGE DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-0100 FOR PRICING AND AVAILABILITY. FANS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.

REMARKS

- PROVIDE NEMA 1 PRE-WIRED DISCONNECT.
- INTEGRAL POTENTIOMETER ON FAN MOTOR. SET TO FULL SPEED.
- PROVIDE AIR BALANCE KIT AND SECURE TO FAN.
- PROVIDE THERMOSTAT / TEMPERATURE CONTROLLER. SET TO 76' F.

### EXHAUST FAN SCHEDULE

MARK	CFM	ESP	RPM	TP SPEED (CFM)	HP (WATTS)	AREA SERVED	MODEL	MANUFACTURER	REMARKS
EFH (NEW)	1,912	0.75	1,331	5,226	3/4	HOOD#1 & HOOD#R	150 OPS	LOREN COOK	H2
EFH2 (NEW)	1,402	0.95	1,199	4,708	3/4	HOOD#2 & HOOD#3	150 OPS	LOREN COOK	H2
EFH3 (EXIST)	350	-	-	-	-	RESTROOMS	-	EXISTING	-

NOTES

- GREASE EXHAUST FAN RPM BASED ON 80 DEGREE F AIR AT 1000 FEET ABOVE SEA LEVEL.
- GREASE EXHAUST FANS TO BE UL 762 LISTED.
- CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR FANCLRB PACKAGE. MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE FANCLRB PACKAGE DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-0100 FOR PRICING AND AVAILABILITY. FANS AND CURBS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.

REMARKS

- PROVIDE AND INSTALL ROOFTOP SOLUTIONS G2 DRIP GUARD. MC TO CONTACT ROOFTOP SOLUTIONS AT 800-913-7034
- PROVIDE FACTORY INSTALLED, PRE-WIRED, NEMA 3 NON-FUSED DISCONNECT. COORDINATE WITH E.C.
- INTEGRAL THERMAL OVERLOAD WITH AUTOMATIC RESET.
- UPELAST, ARRANGEMENT 10, CCW ROTATION SEE PLANS TO CONFIRM CONFIGURATION.
- PROVIDE FACTORY STEEL FAN WHEEL.
- PROVIDE FACTORY STEEL INLET FLANGE AND INLET COMPANION FLANGE.
- PROVIDE FACTORY WEATHER HOUSING W/ HINGED ACCESS DOOR.
- PROVIDE FACTORY DRAIN CONNECTION.
- PROVIDE FACTORY BOLTED ACCESS DOOR ON SCROLL.
- PROVIDE FACTORY STEEL OUTLET COMPANION FLANGE.
- UTILITY SET FAN CLRB AND ASSOCIATED EXHAUST DUCT CLRB PROVIDED BY TOM BARROW COMPANY.
- PROVIDE FACTORY BELT DRIVE WITH ADJUSTABLE MOTOR SHEAVE AND SPARE BELT.

### DUCTLESS SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE

MARK	COOLING CAPACITY (MBH)		HEATING CAPACITY (MBH)		EFFICIENCIES	FAN SECTION (CFM)	ELECTRICAL DATA	R-410A MODEL	MFR
	MIN	MAX	MIN	MAX					
AHUMCUH (NEW)	18.0	33.5	18.0	40.0	SEER 16.2 HSPF 10.0	AIR FLOW (MET)	NCA (MCCP) VOLTAGE	AHU	CJ
	18.0	33.5	18.0	40.0	16.2	10.0	635-730-830	28	40

NOTES

- MECHANICAL CONTRACTOR SHALL PURCHASE THE SPLIT SYSTEM HEAT PUMP DIRECTLY FROM TRANE/MITSUBISHI. CONTACT MS. LAURI FRANKOWSKI AT 630-400-4285, FOR PRICING AND AVAILABILITY.

REMARKS

- ELECTRICIAN TO PROVIDE NON-FUSED DISCONNECT.
- MECHANICAL TO PROVIDE AND INSTALL REFRIGERANT PIPING AS PER MFR RECOMMENDATIONS.
- PROVIDE ENGRAVED PLASTIC LABEL AT AHU AND CU WITH 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND RIVETED TO UNIT CABINET.
- PROVIDE WITH ADEQUATE REFRIGERANT LINE SET. FIELD VERIFY DISTANCE FROM WHERE CONDENSER IS TO BE SET TO AIR HANDLER LOCATION PRIOR TO ORDERING.
- PROVIDE WITH WALL MOUNTED THERMOSTAT (TAR-CTOIMAU-SBL) USE TWO-WIRE. STANDARD, NON-POLAR CONTROL WIRE TO CONNECTOR TB5 ON INDOOR UNIT CONTROLLER. PROGRAM THERMOSTAT CONTROLS TO MATCH DRIVE-THRU RTU SETPOINTS.
- PROVIDE PAC-SE56RA-E CONNECTOR AT INDOOR UNIT (CONNECTOR CN3), WIRE ORANGE AND RED WIRES TO SPARE POLE ON RELAY R-1 IN SLMCOAST T-500 PANEL (TERMINALS 11 AND 7 RESPECTIVELY) AND CAP THE BROWN WIRE.
- PROVIDE WITH CONDENSATE PUMP (BLUE DIAMOND MAXI BLUE MODEL# X87-72).



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5200 Buffington Road  
Atlanta, Georgia 30349

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Nashville, Tennessee 37214  
Telephone: (615) 255-5203



2-14-23

**CHICK-FIL-A**  
**EASTGATE PLAZA**  
5156 STATE ROUTE 30  
Greensburg, PA 15601-7554

**FSR#02092**

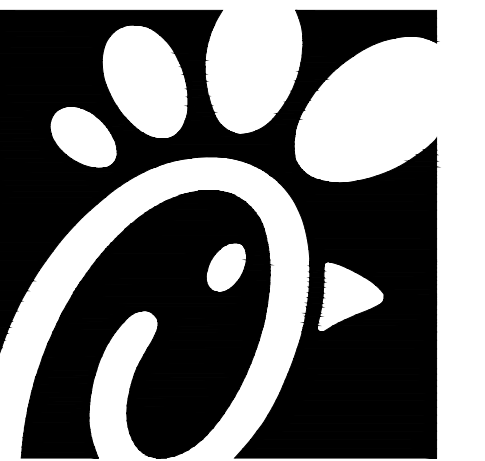
BUILDING TYPE / SIZE: KK CONV  
RELEASE: v12.21

REVISION SCHEDULE  
NO. DATE DESCRIPTION

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SHEET MECH DETAILS & SCHEDULES  
SHEET NUMBER

**M3.1**



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Greensburg, PA 15601-7554

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BUILDING TYPE / SIZE: KK CONV  
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REVISION SCHEDULE		
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SHEET HVAC CONTROLS

SHEET NUMBER

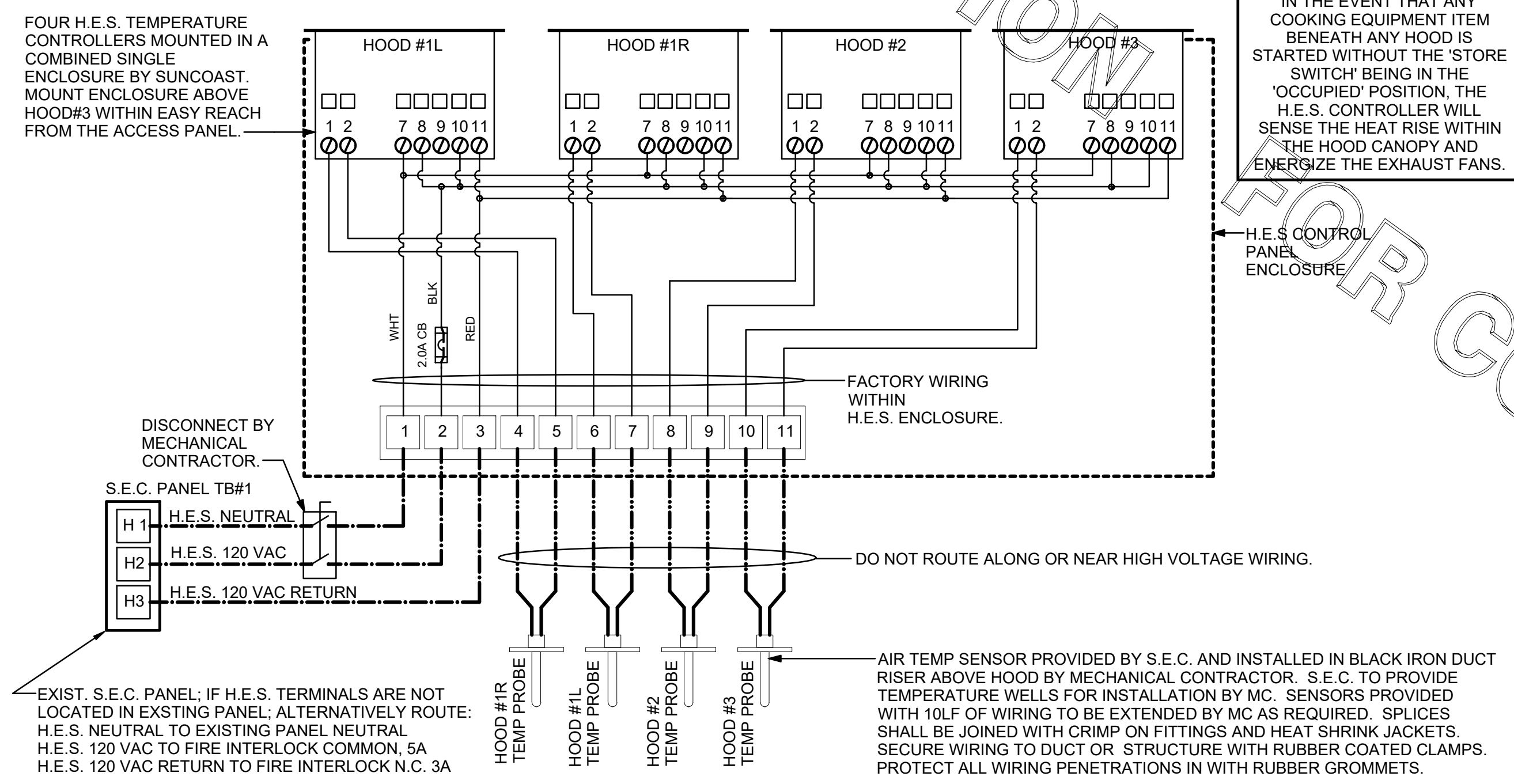
**M4.1**

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

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

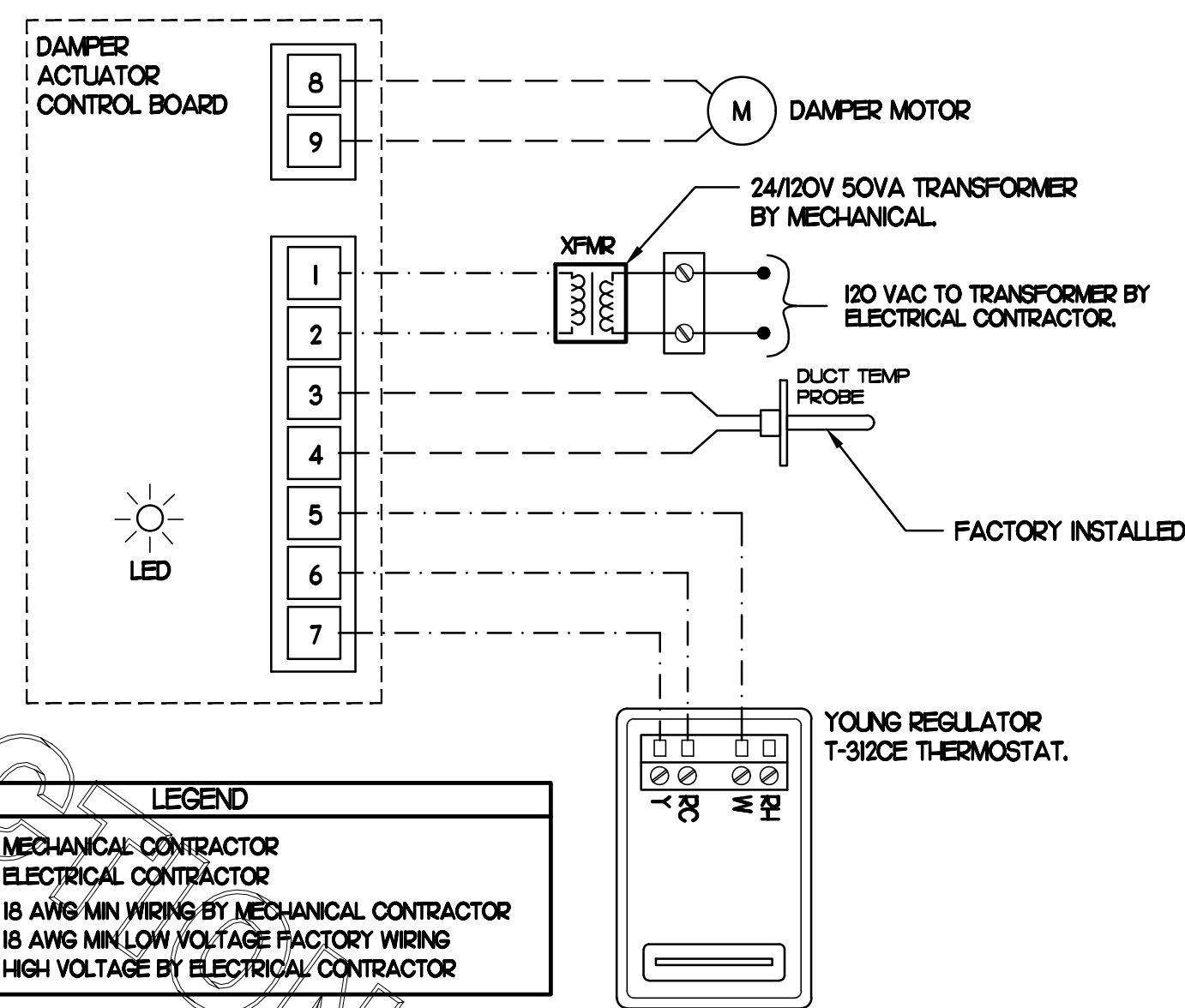
**S.E.C. H.E.S. OPERATION**

IN THE EVENT THAT ANY COOKING EQUIPMENT ITEM BENEATH ANY HOOD IS STARTED WITHOUT THE 'STORE SWITCH' BEING IN THE 'OCCUPIED' POSITION, THE H.E.S. CONTROLLER WILL SENSE THE HEAT RISE WITHIN THE HOOD CANOPY AND ENERGIZE THE EXHAUST FANS.



**1 HOOD EXHAUST SAFETY SWITCH (H.E.S.) WIRING DIAGRAM**

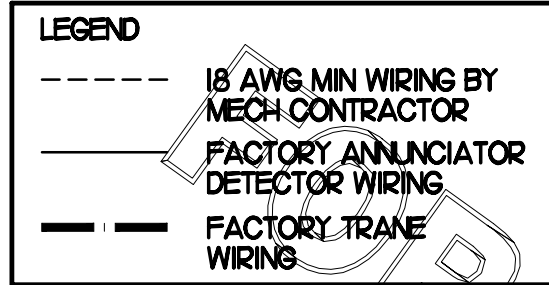
NONE



**2 OFFICE VAV DAMPER AND TSTAT**

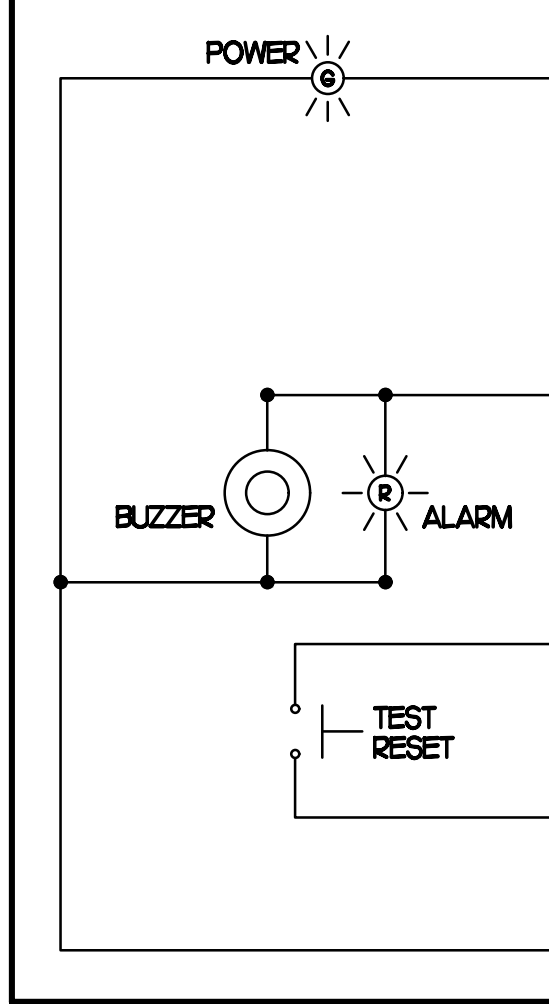
NO SCALE

THERE WILL BE A SMOKE DETECTOR ANNUNCIATOR PROVIDED FOR EACH SUPPLY AND RETURN AIR DUCT DETECTOR. REFER TO RTU SCHEDULE FOR REQUIRED DUCT DETECTORS.



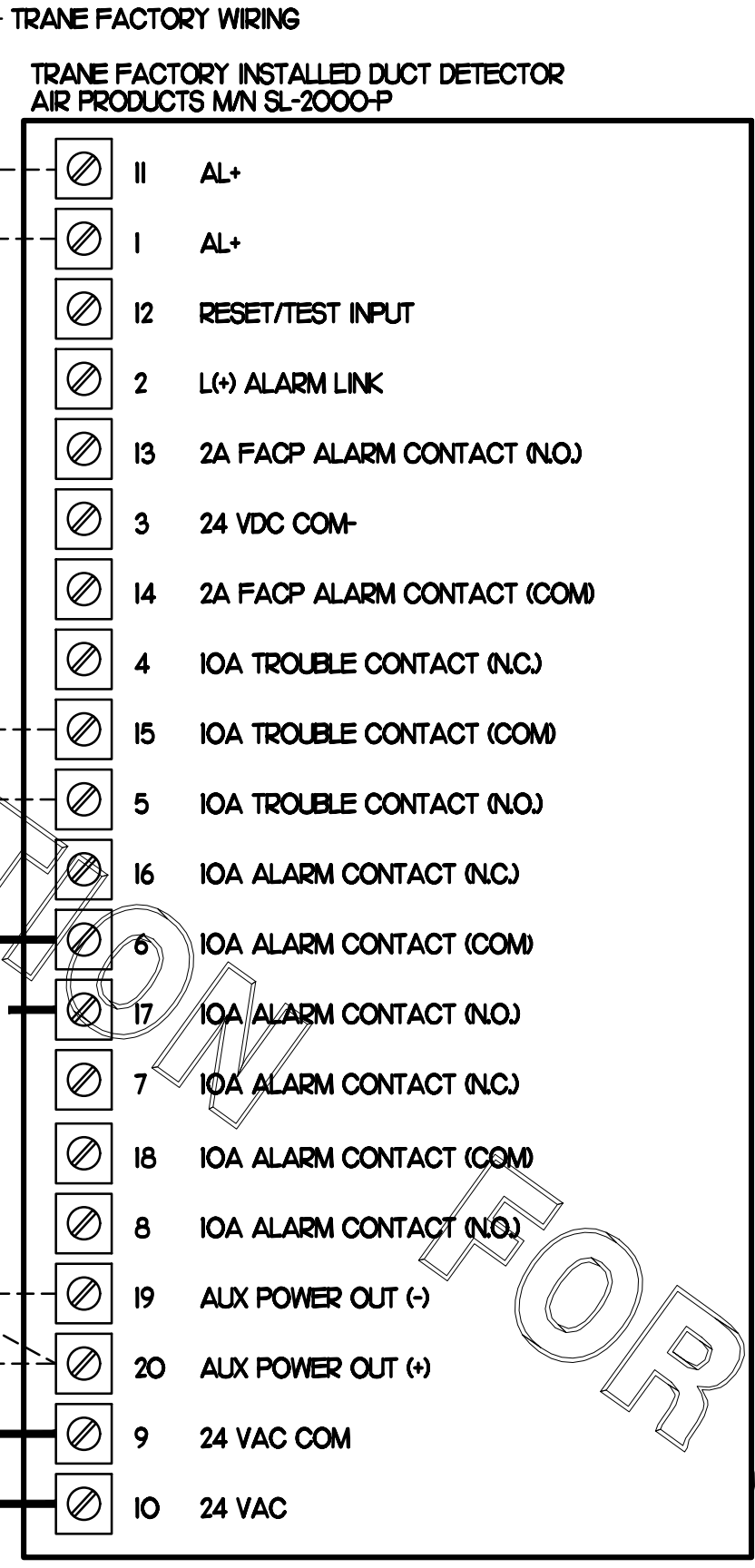
**LABELING**  
PROVIDE ENGRAVED LABEL WITH 1" HIGH WHITE LETTERS ON BLACK BACKGROUND IDENTIFYING UNIT SERVED.

SUNCOAST CONTROLS ANNUNCIATOR



RELIAEEL CONTROL BOARD

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



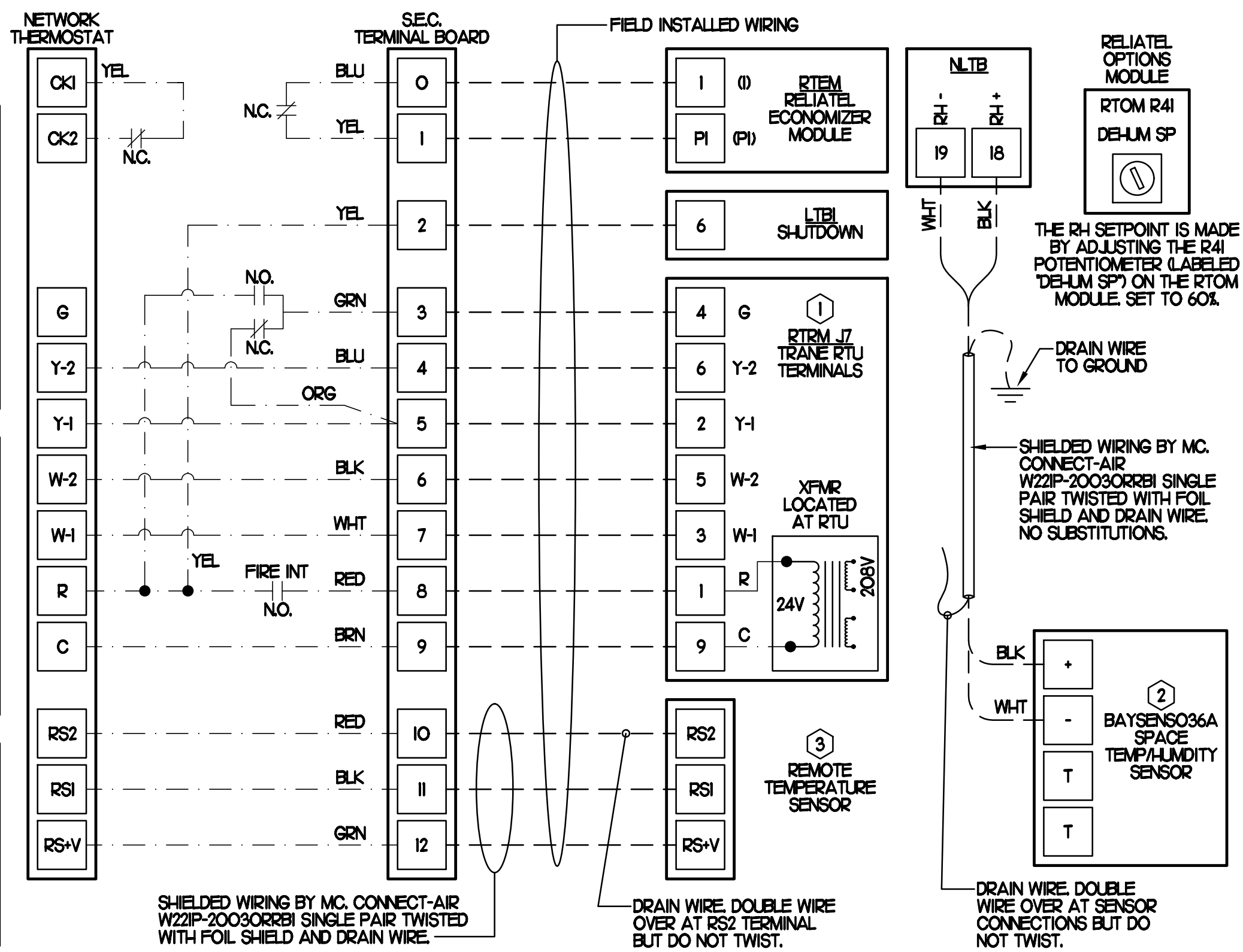
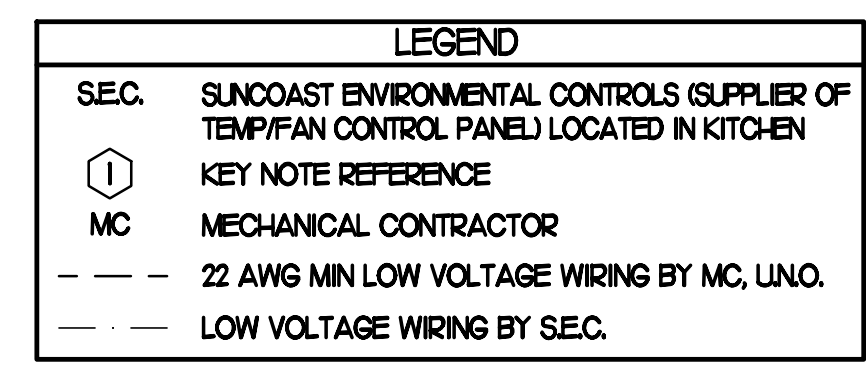
**1 SMOKE DETECTOR AND ANNUNCIATOR WIRING DIAGRAM - TRANE**  
NO SCALE

**NOTES**

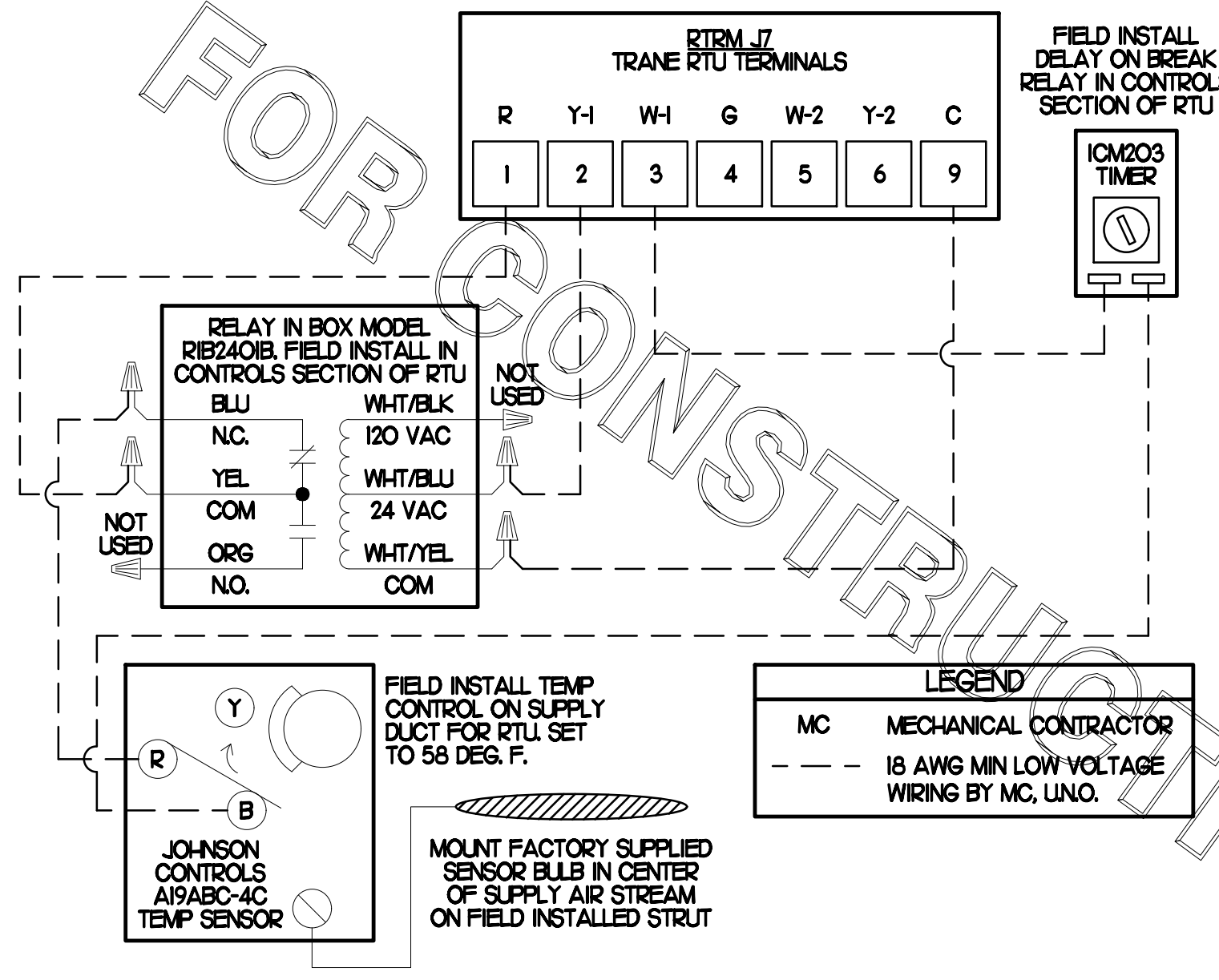
- MECHANICAL CONTRACTOR SHALL MAKE PLASTIC LAMINATE OF THIS DETAIL AND INSTALL PERMANENTLY ON INSIDE DOOR OF ROOFTOP UNIT CONTROL COMPARTMENT.
- SEE DETAILS THIS SHEET FOR SMOKE DETECTOR AND ANNUNCIATOR WIRING.
- SET ALL THERMOSTATS FOR AUTO CHANGEOVER.
- PROVIDE PLASTIC ENGRAVED LABEL AT ALL NEW SENSORS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

**KEYED NOTES**

- LOW VOLTAGE WIRING TO RTU TO BE ROUTED TO UNIT THRU FACTORY WIREWAY.
- HOT GAS RE-HEAT UNITS ONLY: WIRING TO HUMIDITY SENSOR TO BE MADE WITH SHIELDED TWISTED PAIR AS SHOWN. TERMINATE SHIELD WIRES AT TB-1. LEAVE OPEN AT SENSOR.
- 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.



**2 ROOFTOP UNIT CONTROL WIRING - TRANE**  
NONE



**3 SUPPLY AIR TEMPERING WIRING - TRANE**  
NONE



Chick-fil-A

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2-14-23

**CHICK-FIL-A**  
EASTGATE PLAZA  
5156 STATE ROUTE 30  
Greensburg, PA 15601-7554

**FSR#02092**

BUILDING TYPE / SIZE: KK CONV  
RELEASE: v12.21

**REVISION SCHEDULE**

NO.	DATE	DESCRIPTION

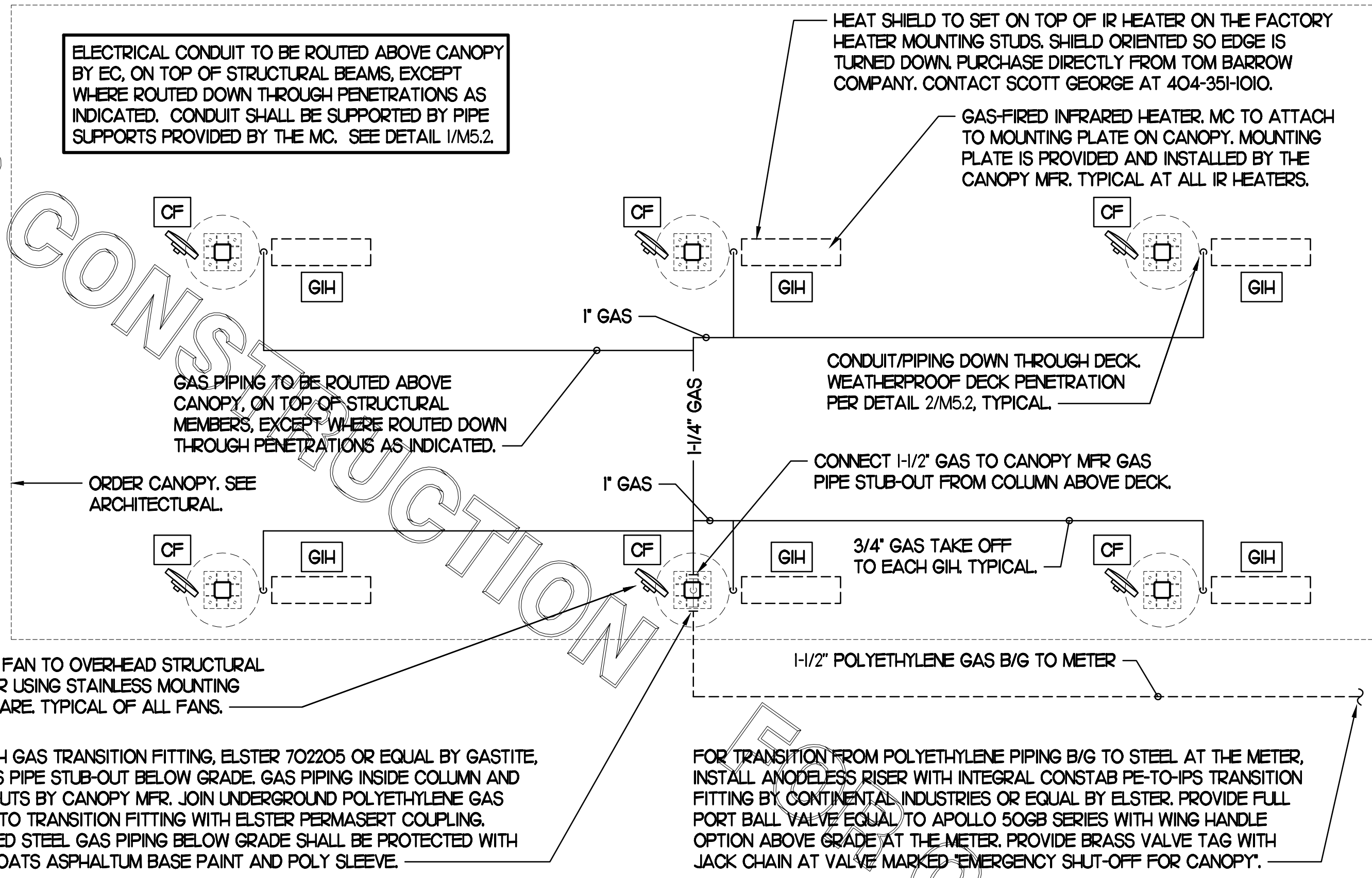
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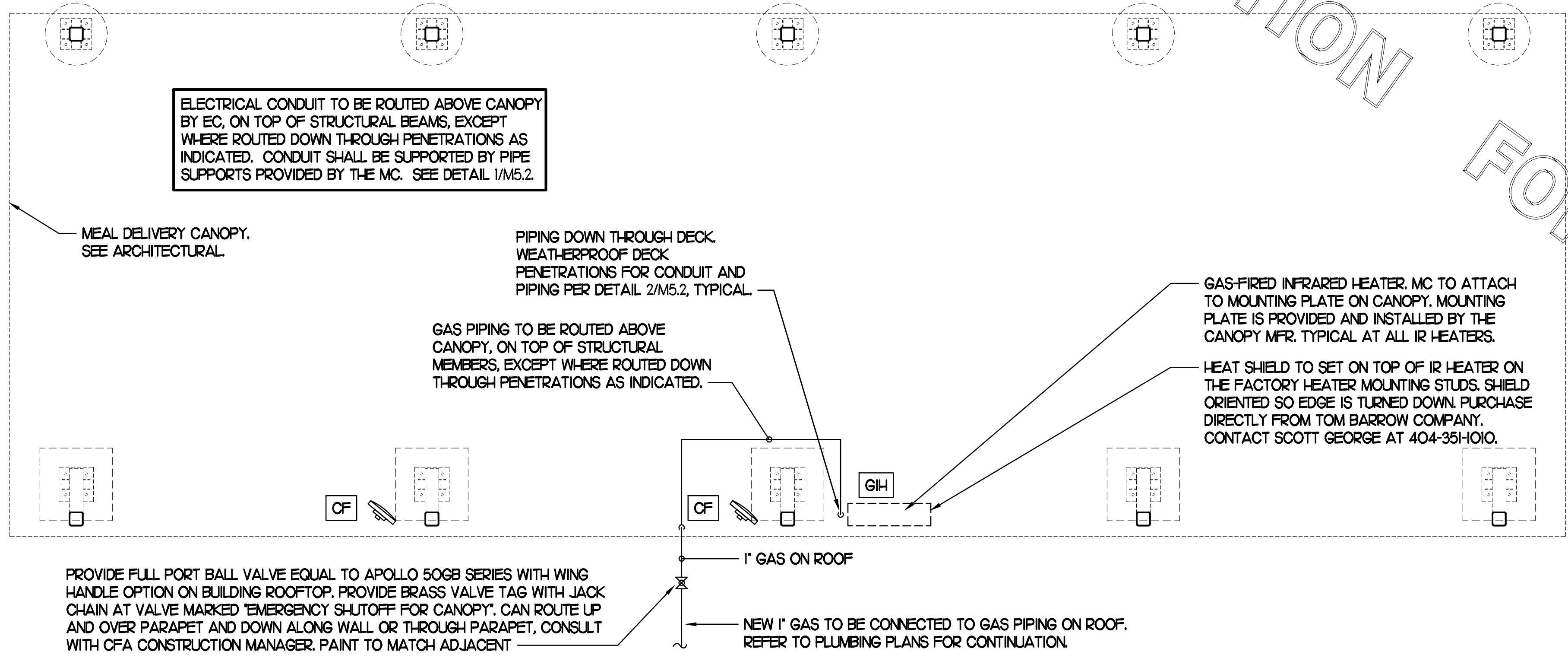
SHEET HVAC CONTROLS

SHEET NUMBER

**M4.2**



**1** HVAC PLAN - DOUBLE LANE ORDER CANOPY  
NTS



**2** HVAC PLAN - MEAL DELIVERY CANOPY  
NTS

LEGEND			
CF#	CIRCULATING FAN # (TYP)	B/G	BELOW GRADE
GIH#	GAS INFRARED HEATER # (TYP)	EC	ELECTRICAL CONTRACTOR
---	NEW GAS PIPING ABOVE GRADE	MC	MECHANICAL CONTRACTOR
---	NEW GAS PIPING BELOW GRADE	---	CONDUIT ABOVE CANOPY DECK

**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.
- EXPOSED GAS PIPING SHALL BE PAINTED BY GENERAL CONTRACTOR.
- ACTUAL NUMBER OF GAS INFRARED HEATERS & COOLING FANS WILL BE DETERMINED BY SITE-SPECIFIC CANOPY LAYOUT AND EQUIPMENT LOCATIONS, AS INDICATED ON ARCHITECTURAL PLANS.
- CONTROL WIRING FOR HEATERS BY EC. COORDINATE WIRE GAUGE WITH EC. SEE ELECTRICAL AND CONTROLS DRAWINGS, TYP.



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BUILDING TYPE / SIZE: KK CONV  
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REVISION SCHEDULE		
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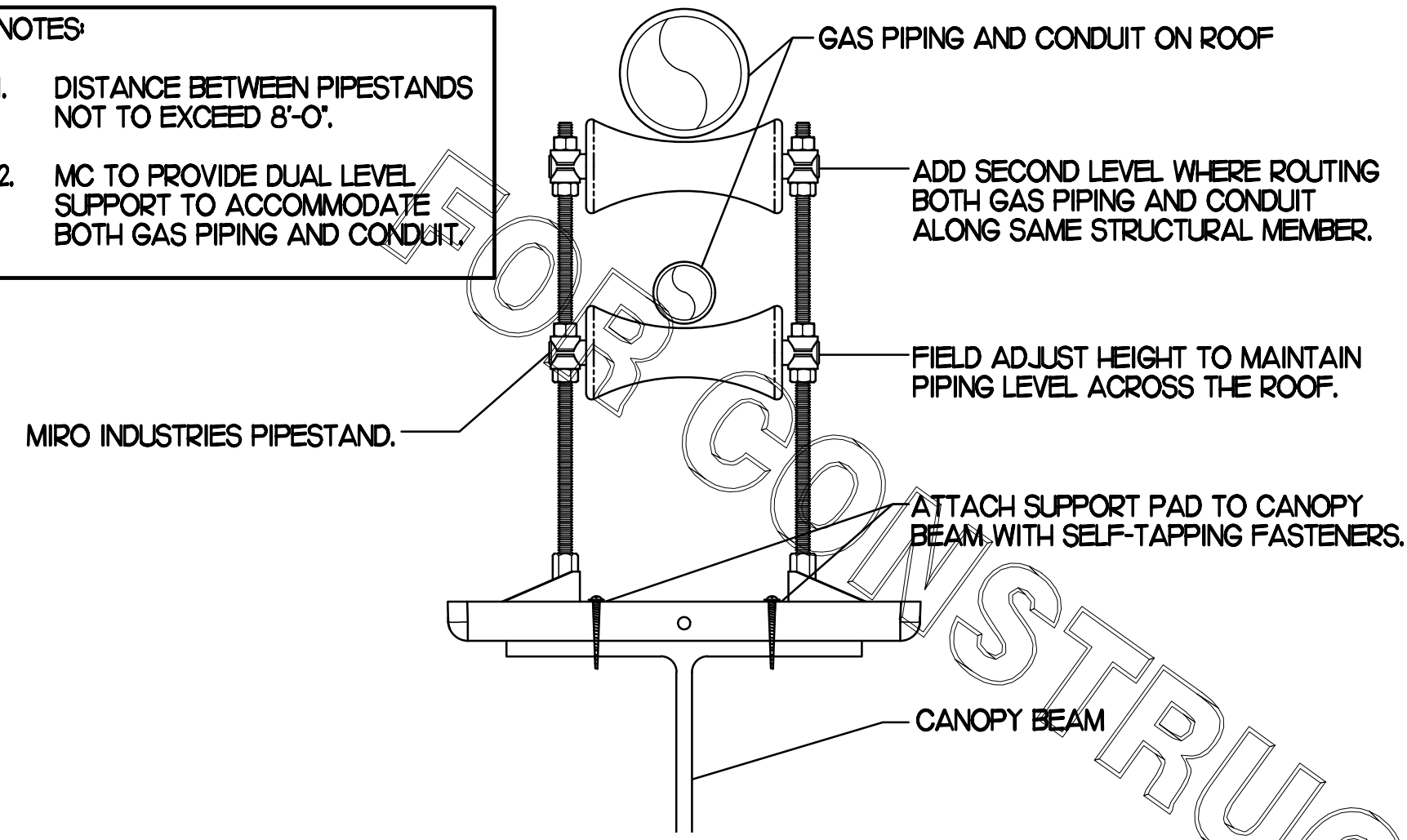
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SHEET  
CANOPY HVAC  
PLANS  
SHEET NUMBER

**M5.1**

**NOTES**

- DISTANCE BETWEEN PIPESTANDS NOT TO EXCEED 8'-0".
- MC TO PROVIDE DUAL LEVEL SUPPORT TO ACCOMMODATE BOTH GAS PIPING AND CONDUIT.

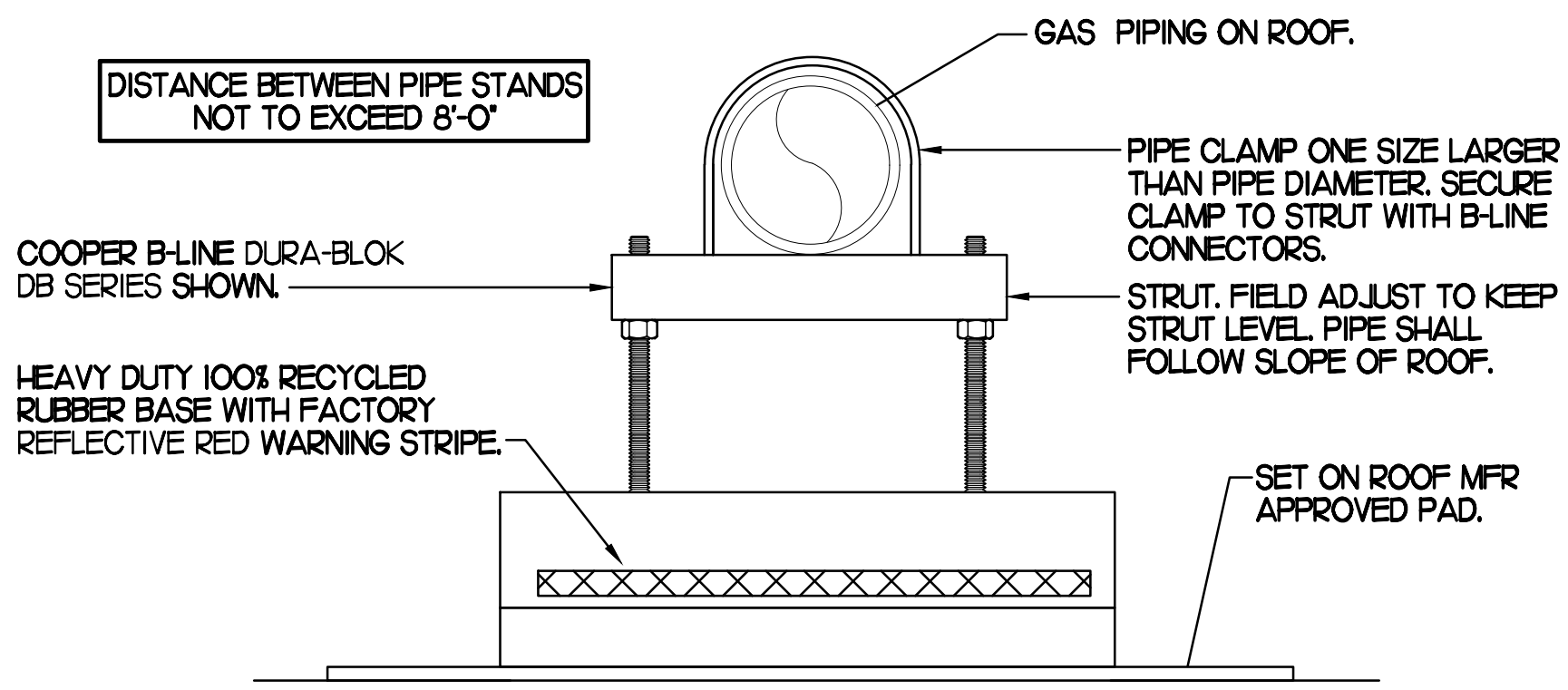


**1 PIPING SUPPORT ON CANOPY**

NO SCALE

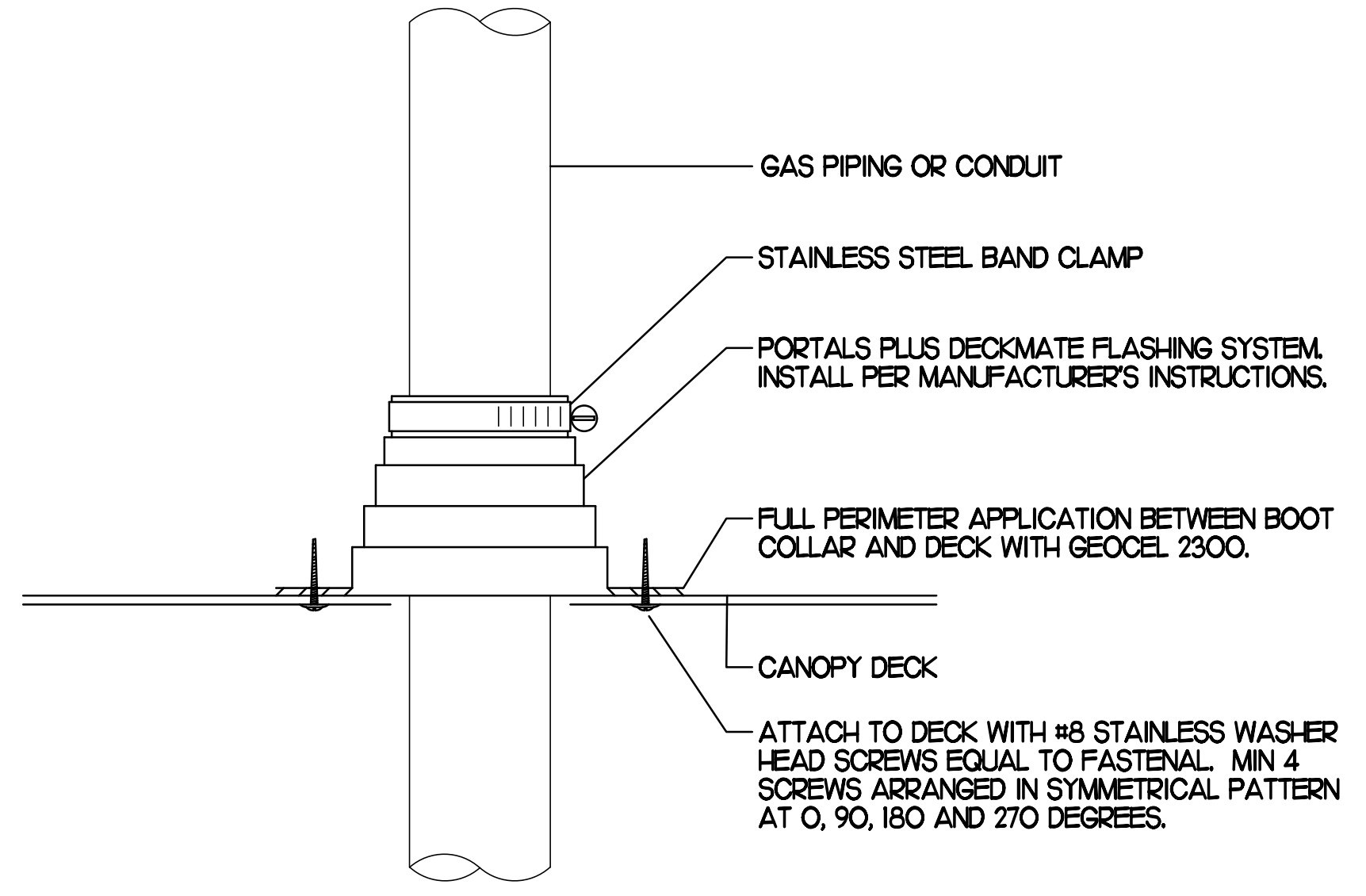
**NOTES**

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



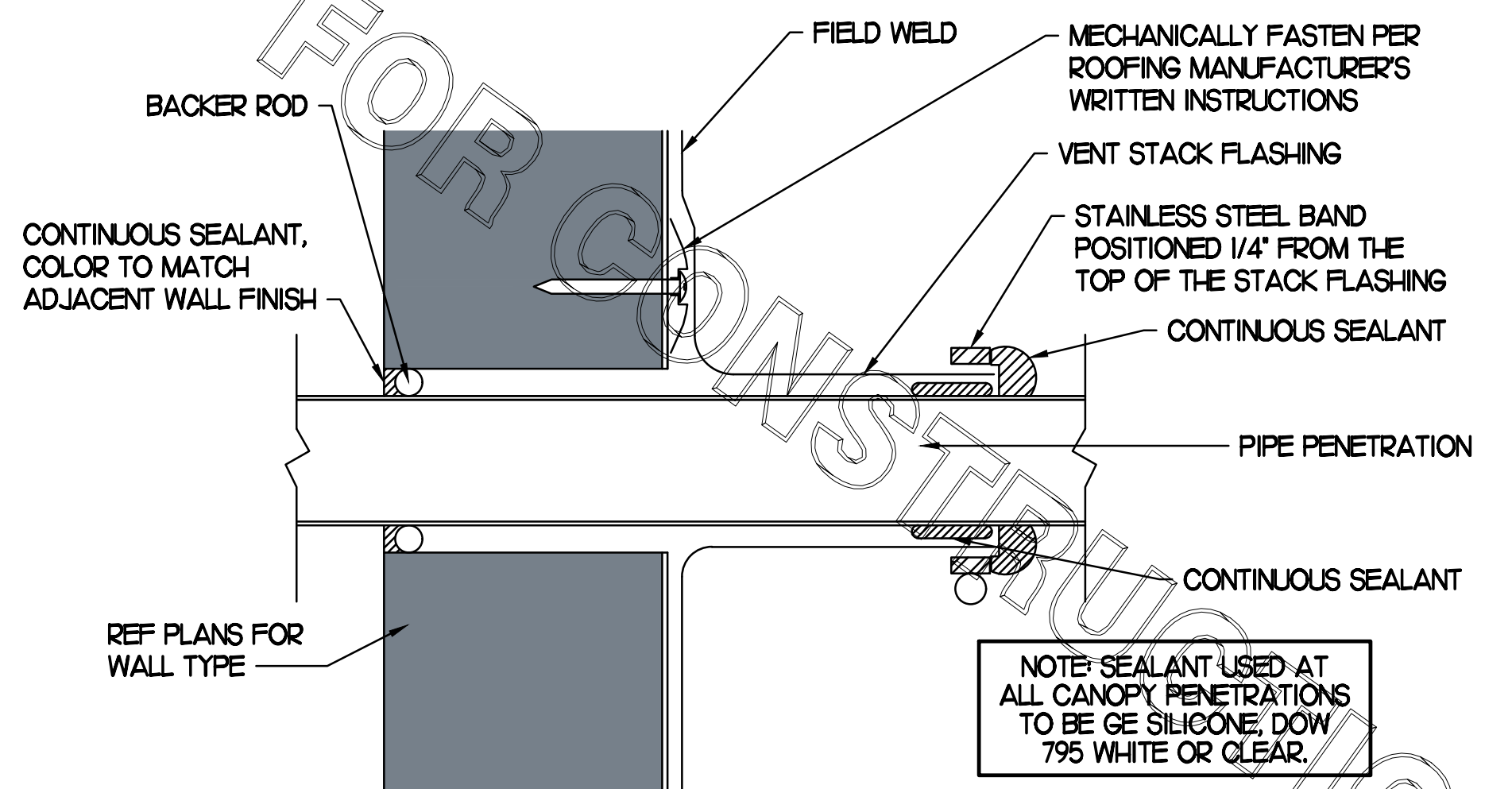
**4 PIPING SUPPORT ON MAIN BLDG ROOF**

NO SCALE



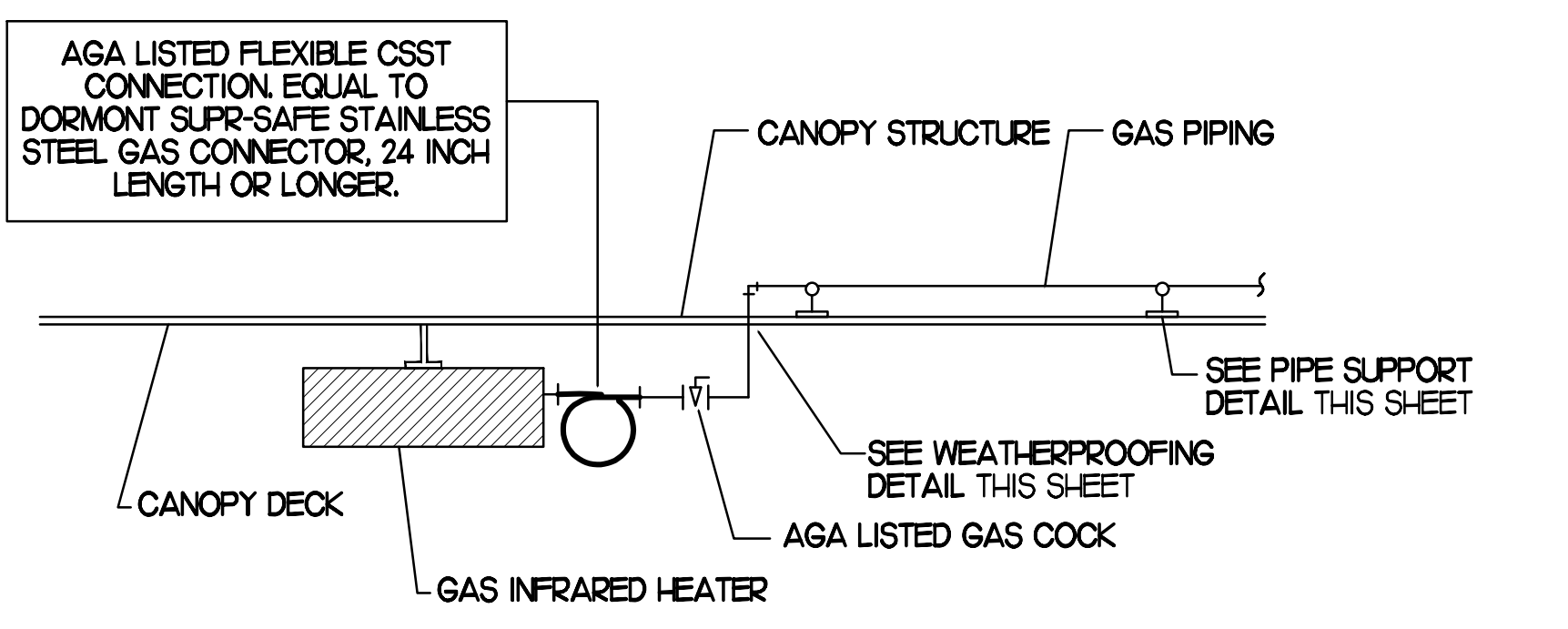
**2 WEATHERPROOFING AT CANOPY PENETRATION**

NO SCALE



**5 PARAPET PENETRATION DETAIL**

NO SCALE



**3 GAS CONNECTION AT APPLIANCE**

NO SCALE

GAS FIRED INFRARED HEATER SCHEDULE							
MARK	INPUT (MER)	FRAME SIZE			MOUNTING TYPE	MODEL	MANUFACTURER
		LENGTH	WIDTH	DEPTH			
ALL GIH	500	48"	13"	10"	BRACKET	2352-NG	SCHWANK
REMARKS	<ol style="list-style-type: none"> <li>STEEL BURNER WITH CERAMIC BURNER TILES.</li> <li>STAINLESS STEEL LENS WITH BLACK EMISSIVE COATING.</li> <li>PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. MOUNT TO CANOPY DECK, FACING DOWNWARD, 12" Laterally FROM THE SIDE OF THE HEATER.</li> <li>MOUNTING BRACKET PROVIDED AND INSTALLED BY CANOPY MFR.</li> <li>PROVIDE HEAT SHIELD ABOVE EACH HEATER AT THE BOTTOM OF THE BRACKET.</li> </ol>						

CIRCULATING FAN SCHEDULE					
MARK	CFM	RPM	HP	MODEL	MANUFACTURER
ALL CF	5,750	1,625	1/8	UBTE-HD	TPI
REMARKS	<ol style="list-style-type: none"> <li>ALUMINUM PADDLE WITH STEEL HUB/SPIDER PROPELLER.</li> <li>360 DEG. ROTATING HEAD HORIZONTALLY AND VERTICALLY.</li> <li>OSHA COMPLIANT DOUBLE LOCKING, COATED STEEL WIRE GUARD.</li> <li>3-SPEED, TOTALLY ENCLOSED, PERMANENTLY LUBRICATED BALL BEARING MOTOR.</li> <li>FACTORY PRE-WIRED POWER CORD.</li> <li>PROVIDE FACTORY WALL MOUNTING BRACKET.</li> <li>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 OVER-HANG, FACING DOWNWARD, 12" Laterally FROM THE FAN LOCATION.</li> <li>REMOVE PULL CHAIN EXTENSION AT ON/OFF SWITCH IN FIELD.</li> <li>FACTORY CERTIFIED FOR OUTDOOR INSTALLATION.</li> </ol>				



Chick-fil-A

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**CHICK-FIL-A**  
**EASTGATE PLAZA**  
5156 STATE ROUTE 30  
Greensburg, PA 15601-7554

**FSR#02092**

BUILDING TYPE / SIZE: KK CONV  
RELEASE: v12.21

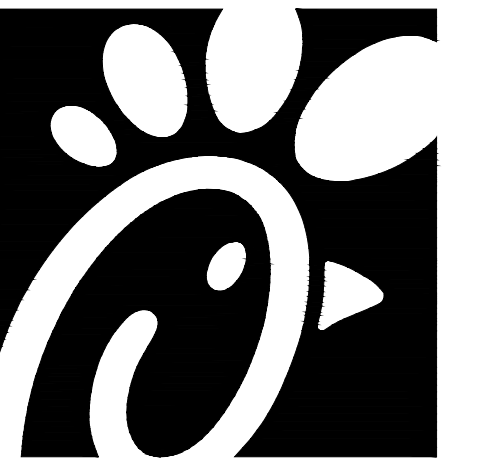
REVISION SCHEDULE  
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SHEET CANOPY DETAILS & SCHEDULES  
SHEET NUMBER

**M5.2**

CONSTRUCTION



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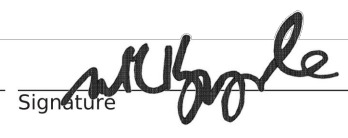
**REVISION SCHEDULE**

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SHEET  
MECHANICAL  
COMCHECK  
SHEET NUMBER

**M6.1**

Mark Kurzynske, P.E.  4/26/22  
Name - Title Signature Date

**COMcheck Software Version 4.1.5.1**  
**Envelope Compliance Certificate**

**Project Information**

Energy Code: 2015 IECC  
Project Title: Chick-fil-A #2092  
Location: Greensburg, Pennsylvania  
Climate Zone: 5a  
Project Type: Addition

Construction Site: Eastgate Plaza, 5156 State Route 30, Greensburg, PA 15601  
Owner/Agent: Chick-fil-A, 5200 Buffington Road, Atlanta, GA 30349  
Designer/Contractor: Kurzynske & Associates, 2705 Lebanon Pike - Suite One, Nashville, TN 37214, 615-255-5203

Building Area	Floor Area
1-Kitchen/Storage (Dining; Cafeteria/Fast Food) : Nonresidential	550

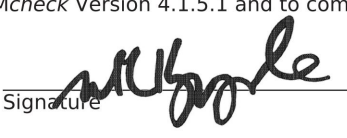
**Envelope Assemblies**

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor <sup>(a)</sup>
Roof 1: Insulated, Entirely Above Deck: High Albedo Roof Required, [Bldg. Use 1 - Kitchen/Storage]	586	---	30.0	0.032	0.032
Roof 1: Slab-On-Grade Heated, Vertical 2 ft., [Bldg. Use 1 - Kitchen/Storage] (b)	111	---	10.0	0.540	0.540
EAST Exterior Wall 1: Wood-Framed, 16" o.c., [Bldg. Use 1 - Kitchen/Storage]	179	20.0	0.0	0.064	0.064
SOUTH Exterior Wall 2: Wood-Framed, 16" o.c., [Bldg. Use 1 - Kitchen/Storage]	595	20.0	0.0	0.064	0.064
Door 1: Insulated Metal, Slugging, [Bldg. Use 1 - Kitchen/Storage]	28	---	---	0.330	0.370
WEST Exterior Wall 3: Wood-Framed, 16" o.c., [Bldg. Use 1 - Kitchen/Storage]	179	20.0	0.0	0.064	0.064

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.  
(b) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

**Envelope PASSES: Design 1% better than code**

**Envelope Compliance Statement**  
Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Mark Kurzynske, P.E.  4/26/22  
Name - Title Signature Date

**COMcheck Software Version 4.1.5.1**  
**Mechanical Compliance Certificate**

**Project Information**

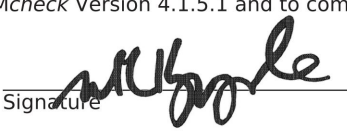
Energy Code: 2015 IECC  
Project Title: Chick-fil-A #2092  
Location: Greensburg, Pennsylvania  
Climate Zone: 5a  
Project Type: Addition

Construction Site: Eastgate Plaza, 5156 State Route 30, Greensburg, PA 15601  
Owner/Agent: Chick-fil-A, 5200 Buffington Road, Atlanta, GA 30349  
Designer/Contractor: Kurzynske & Associates, 2705 Lebanon Pike - Suite One, Nashville, TN 37214, 615-255-5203

**Mechanical Systems List**

Quantity	System Type & Description
1	ACR1 (25 ton) (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 320 kBtu/h Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et Cooling: 1 each - Single Package DX Unit, Capacity = 278 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 10.60 EER, Required Efficiency: 9.80 EER + 11.4 IEER Fan System: ACR1 (25 ton)   Kitchen - Compliance (Motor nameplate HP method) : Passes  Fans: Supply Supply, Constant Volume, 8500 CFM, 7.5 motor nameplate hp, 0.0 fan efficiency grade Exhaust Exhaust, Constant Volume, 2000 CFM, 0.6 motor nameplate hp, 0.0 fan efficiency grade
1	AHU#10UR1 (Single Zone): Split System Heat Pump Heating Mode: Capacity = 40 kBtu/h, Proposed Efficiency = 10.00 HSPF, Required Efficiency = 8.20 HSPF Cooling Mode: Capacity = 34 kBtu/h, Proposed Efficiency = 18.00 SEER, Required Efficiency: 14.00 SEER Fan System: None
7	GIH (Infrared Heater) (Single Zone): Heating: 1 each - Radiant Heater, Gas, Capacity = 50 kBtu/h No minimum efficiency requirement applies Fan System: None

**Mechanical Compliance Statement**  
Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Mark Kurzynske, P.E.  4/26/22  
Name - Title Signature Date

FOR CONSTRUCTION

**I. 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-94, 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 AND DUCTWORK SHALL BE INSPECTED AND THOROUGHLY CLEANED, 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 ELECTRIC HEATING UNITS BY TRANE 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 HEATING ELEMENTS SHALL BE BARE NICHROME WIRE EXPOSED TO THE AIR STREAM. HEATING CONTROLS SHALL INCLUDE TIME DELAY THAT SHALL BRING ELEMENTS ON AND OFF IN SEQUENCE WITH TIME DELAY BETWEEN EACH ELEMENT. HEATING SHALL BE PROVIDED IN TWO STAGES. LIMIT CONTROL SHALL PROVIDE OVERLOAD AND SHORT CIRCUIT PROTECTION. HEATER SHALL HAVE A ONE (1) YEAR WARRANTY.
- E. CHICK-FIL-A MAINTAINS A NATIONAL ACCOUNT FOR EQUIPMENT WITH TRANE CORPORATION. PRICING FOR THE EQUIPMENT HAS BEEN ESTABLISHED IN ADVANCE. CONTACT TRANE NATIONAL ACCOUNTS AT 630-400-4285 FOR PRICING, ORDERING AND AVAILABILITY.

2.02 DUCTWORK (C15735) (SEE DWG M2.1 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 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. 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 5.6 R-VALUE INSTALLED WITH EITHER A VAPOR BARRIER WITH MAXIMUM PERMEANCE 0.05 OR A MINIMUM 2 MIL ALUMINUM REINFORCED FOIL/KRAFT FACING.
- F. ALL DUCT DROPS FROM THE ROOFTOP UNITS SHALL BE EXTERNALLY INSULATED.
- G. SUPPLY AND RETURN AIR DUCTWORK SERVING ALL AREAS SHALL BE EXTERNALLY INSULATED.
- H. 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.
- I. RESTROOM RECTANGULAR EXHAUST AIR DUCTWORK SHALL BE LINED WITH 1" THICK, 1-1/2 PCF INSULATION.
- J. 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.
- K. 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 M3.1.
- L. 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.
- M. 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.
- N. DUCT TAPE SHALL BE EQUAL TO FASSON 181-B FX, 2-1/2" WIDE.
- O. SINGLE THICKNESS TURNING VANES SHALL BE INSTALLED AT 90 DEGREE TURNS IN SUPPLY DUCTWORK WHERE ANY ONE DIMENSION IS GREATER THAN 12".
- P. RADIUS ELBOWS MAY BE SUBSTITUTED FOR 90 DEGREE ELBOWS AT THE DISCRETION OF THE CONTRACTOR. CENTERLINE RADIUS EQUAL TO: R=W PER FIGURE NO. 2-2 IN SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
- Q. EXTERNAL INSULATION ON BOTTOM OF DUCTS 24" OR WIDER SHALL BE SUPPORTED WITH STICK PINS ON 18" CENTERS. STICK PIN WASHERS SHALL BE COVERED WITH DUCT TAPE OR MASTIC.

2.03 CONTROLS (C15735)

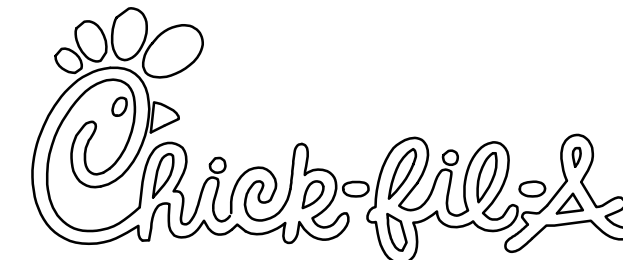
- A. SYSTEMS SHALL BE COMPLETE WITH CONNECTIONS TO EXISTING CFA-500 TEMPERATURE CONTROL PANEL AS MANUFACTURED BY SUNCOAST ENVIRONMENTAL CONTROLS (S.E.C.) (PH: 877-544-6679). CONTROL WIRING TERMINATIONS ARE BY THE MECHANICAL CONTRACTOR.
- B. THE SMOKE DETECTORS SHALL BE FACTORY INSTALLED AND WIRED BY THE ROOFTOP UNIT MANUFACTURER.
- C. A FACTORY INSTALLED SMOKE DETECTOR IN THE RETURN AIR SECTION OF EACH AIR CONDITIONING UNIT SHALL STOP THE INDOOR FAN AND CLOSE THE OUTSIDE AIR DAMPER IN THE EVENT OF EXCESSIVE TEMPERATURE OR SMOKE. SMOKE DETECTOR SHALL BE LOCATED PRIOR TO ANY EXHAUST FROM THE BUILDING OR MIXING WITH FRESH AIR MAKE-UP. UPON DETECTION, THE SYSTEM SHALL NOT RESTART UNTIL THE DEVICE IS MANUALLY RESET. DEVICES SHALL BE LOCATED WHERE THEY CAN BE EASILY ACCESSED AND WHERE CLEAR OF FILTERS.
- D. CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH SUNCOAST ENVIRONMENTAL CONTROLS FOR THE SMOKE DETECTOR TEST/RESET ANNUNCIATOR STATIONS. THE TEST/RESET STATIONS WILL BE PURCHASED AND INSTALLED BY THE MECHANICAL CONTRACTOR AS A PART OF A NATIONAL ACCOUNT PACKAGE.
- E. THE REMOTE TEST/RESET ANNUNCIATORS SHALL BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR. INSTALLATION BY MECHANICAL SHALL INCLUDE MOUNTING OF THE ANNUNCIATORS AND ALL WIRING FROM EACH DEVICE TO THE RTU OR AHU. PROVIDE A JUNCTION BOX IN THE WALL WITH 1/2" CONDUIT STUBBED UP ABOVE THE CEILING FOR EACH REMOTE TEST STATION. 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 TSTAT PRE-WIRED IN THE TEMPERATURE CONTROL PANEL. A REMOTE TEMPERATURE SENSOR FOR EACH THERMOSTAT IS ALSO PROVIDED. SOME UNITS MAY HAVE MORE THAN ONE SENSOR. MECHANICAL CONTRACTOR SHALL INSTALL ALL WIRING BETWEEN THE THERMOSTAT, THE REMOTE SENSOR AND THE ROOFTOP UNIT OR AHU.
- 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. OWNER SHALL TEST AND BALANCE MECHANICAL SYSTEM IN ACCORDANCE WITH NCI 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.
- C. 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.
- D. 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.
- E. CONTRACTOR SHALL COMPLETE A/C EQUIPMENT STARTUP DOCUMENTATION PROVIDED BY OWNER.

NATIONAL ACCOUNTS		
1.	TRANE EQUIPMENT - CONTACT TRANE NATIONAL ACCOUNTS AT 630-400-4285 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.	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.	
6.	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.	
7.	SCHWANK INFRARED HEATER PACKAGE - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE HEATER PACKAGE DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. HEATERS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.	
8.	CIRCULATING 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 PACKAGE - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE HEATER DIRECTLY FROM BROMIC COMPANY. CONTACT BLAKE RUSSIE AT 858-381-4850 FOR PRICING AND AVAILABILITY. HEATERS NOT PURCHASED THRU BROMIC COMPANY WILL NOT BE ACCEPTED.	



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



**Kurzynske & Associates**  
CONSULTING ENGINEERS  
2705 Lebanon Pike - Suite One  
Nashville, Tennessee 37214  
Telephone: (615) 255-5203



2-14-23

**CHICK-FIL-A**  
**EASTGATE PLAZA**  
5156 STATE ROUTE 30  
Greensburg, PA 15601-7554

**FSR#02092**

BUILDING TYPE / SIZE: KK CONV  
RELEASE: v12.21

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 22069.HF.R  
PRINTED FOR CONSTRUCTION  
DATE 04/26/2022  
DRAWN BY DSF

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SHEET  
MECHANICAL  
SPECIFICATIONS  
SHEET NUMBER

**CONSTRUCTION**

**M7.1**

**MODEL: KVL-2-IC**

**STANDARD FEATURES**

- S.S. FILTERS (KSA) 4
- 1/2 S.S. FILTERS (KSA) 1
- CAPTURE-JET \*
- STAND-OFF \*
- L.E.D. LIGHTS 3

**OPTIONS**

- REMOTE SWITCH PANEL \*
- FIRE PROTECTION \*
- ETL LISTED W/D EXHAUST DAMPER \*
- CEILING CLOSURE 2
- STD. BACKSPASH \*
- INSULATED BACKSPASH \*
- MBD DAMPER \*

**MATERIAL**

- EXPOSED SURFACES 18 GA. S.S. \*

**COMMENTS:**

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

**FRONT CLOSURE PANEL WITH 64"x24" ACCESS DOOR LEFT SIDE (ACCESS TO ANSA TANKS & MBD DAMPER)**

**18"x18" ACCESS DOOR RIGHT SIDE AT CAPTURE-JET BY FRONT C/J INTAKE**

**CONTINUOUS CAPTURE INTERNAL LIGHT END**

**INTERNAL LIGHT END**

**8" REAR STAND-OFF TO HAVE 1" THICK INSULATION**

**HOOD LEFT END PANEL**

**EQUIPMENT COVERED (1) GRILL**

**ANSA WEIGHT = 83 LBS**

**HOOD WEIGHT = 402 LBS**

**K FACTOR EQUATION: CFM = K FACTOR \* 10<sup>SP</sup>**

**K FACTOR = 3043**

**Halton**

DATE	DWG. NO.	ITEM NO.	EXHAUST AIR INFORMATION		
			CFM	TAB	SP
04.19.22	U22-308-01	H-1L	1080	.13	.24

PROJECT: CHICK-FIL-A #2092 EASTGATE PLAZA

LOCATION: GREENSBURG, PA

SUBMITTED BY: HALTON CO.

**MODEL: KVL-2-IC**

**STANDARD FEATURES**

- S.S. FILTERS (KSA) 3
- 1/2 S.S. FILTERS (KSA) 1
- CAPTURE-JET \*
- STAND-OFF \*
- L.E.D. LIGHTS 2

**OPTIONS**

- REMOTE SWITCH PANEL \*
- FIRE PROTECTION \*
- ETL LISTED W/D EXHAUST DAMPER \*
- CEILING CLOSURE 2
- STD. BACKSPASH \*
- INSULATED BACKSPASH \*
- MBD DAMPER \*

**MATERIAL**

- EXPOSED SURFACES 18 GA. S.S. \*

**COMMENTS:**

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

**FRONT CLOSURE PANEL WITH 64"x24" ACCESS DOOR LEFT SIDE (ACCESS TO ANSA TANKS & MBD DAMPER)**

**18"x18" ACCESS DOOR RIGHT SIDE AT CAPTURE-JET BY FRONT C/J INTAKE**

**CONTINUOUS CAPTURE INTERNAL LIGHT END**

**INTERNAL LIGHT END**

**8" REAR STAND-OFF TO HAVE 1" THICK INSULATION**

**HOOD LEFT END PANEL**

**EQUIPMENT COVERED (2) FRYERS**

**ANSA WEIGHT = 83 LBS**

**HOOD WEIGHT = 402 LBS**

**K FACTOR EQUATION: CFM = K FACTOR \* 10<sup>SP</sup>**

**K FACTOR = 2348**

**Halton**

DATE	DWG. NO.	ITEM NO.	EXHAUST AIR INFORMATION		
			CFM	TAB	SP
04.19.22	U22-308-01	H-1R	832	.12	.23

PROJECT: CHICK-FIL-A #2092 EASTGATE PLAZA

LOCATION: GREENSBURG, PA

SUBMITTED BY: HALTON CO.

**MODEL: KVL-C-IC**

**STANDARD FEATURES**

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

**OPTIONS**

- REMOTE SWITCH PANEL \*
- FIRE PROTECTION \*
- ETL LISTED W/D EXHAUST DAMPER \*
- CEILING CLOSURE 2
- STD. BACKSPASH \*
- INSULATED BACKSPASH \*
- MBD DAMPER \*

**MATERIAL**

- EXPOSED SURFACES 18 GA. S.S. \*

**COMMENTS:**

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

**FRONT CLOSURE PANEL WITH 64"x24" ACCESS DOOR LEFT SIDE (ACCESS TO ANSA TANKS & MBD DAMPER)**

**18"x18" ACCESS DOOR RIGHT SIDE AT CAPTURE-JET BY FRONT C/J INTAKE**

**CONTINUOUS CAPTURE INTERNAL LIGHT END**

**INTERNAL LIGHT END**

**8" REAR STAND-OFF TO HAVE 1" THICK INSULATION**

**HOOD LEFT END PANEL**

**EQUIPMENT COVERED (2) FRYERS**

**ANSA WEIGHT = 202 LBS**

**K FACTOR EQUATION: CFM = K FACTOR \* 10<sup>SP</sup>**

**K FACTOR = 1291**

**Halton**

DATE	DWG. NO.	ITEM NO.	EXHAUST AIR INFORMATION		
			CFM	T.A.B.	SP
04.19.22	U22-308-01	H-2	701	.30	.39

PROJECT: CHICK-FIL-A #2092 EASTGATE PLAZA

LOCATION: GREENSBURG, PA

SUBMITTED BY: HALTON CO.

**MODEL: KVL-C-IC**

**STANDARD FEATURES**

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

**OPTIONS**

- REMOTE SWITCH PANEL \*
- FIRE PROTECTION \*
- ETL LISTED W/D EXHAUST DAMPER \*
- CEILING CLOSURE 2
- STD. BACKSPASH \*
- INSULATED BACKSPASH \*
- MBD DAMPER \*

**MATERIAL**

- EXPOSED SURFACES 18 GA. S.S. \*

**COMMENTS:**

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

**FRONT CLOSURE PANEL WITH 64"x24" ACCESS DOOR LEFT SIDE (ACCESS TO ANSA TANKS & MBD DAMPER)**

**18"x18" ACCESS DOOR RIGHT SIDE AT CAPTURE-JET BY FRONT C/J INTAKE**

**CONTINUOUS CAPTURE INTERNAL LIGHT END**

**INTERNAL LIGHT END**

**8" REAR STAND-OFF TO HAVE 1" THICK INSULATION**

**HOOD LEFT END PANEL**

**EQUIPMENT COVERED (2) FRYERS**

**ANSA WEIGHT = 248 LBS**

**K FACTOR EQUATION: CFM = K FACTOR \* 10<sup>SP</sup>**

**K FACTOR = 1291**

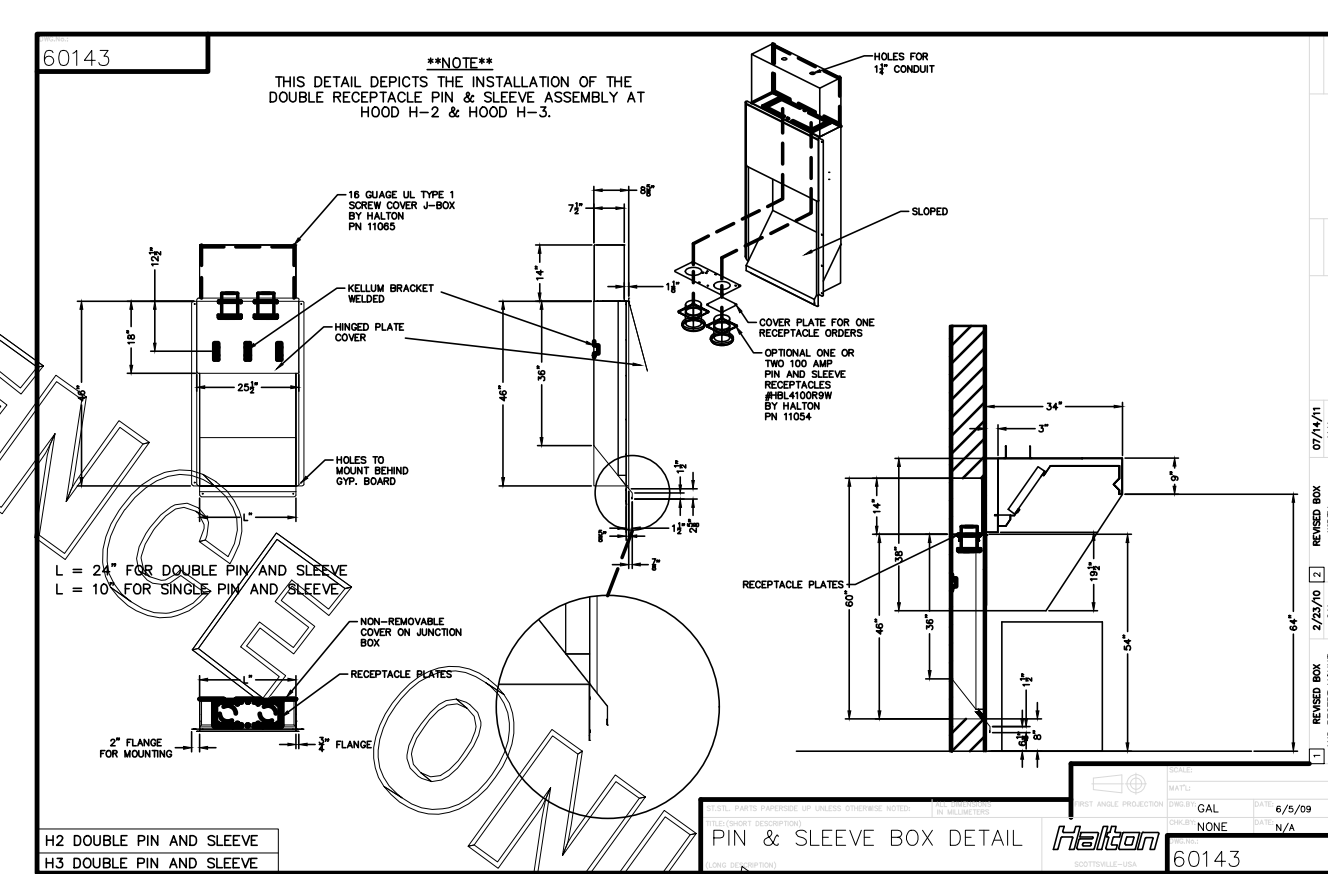
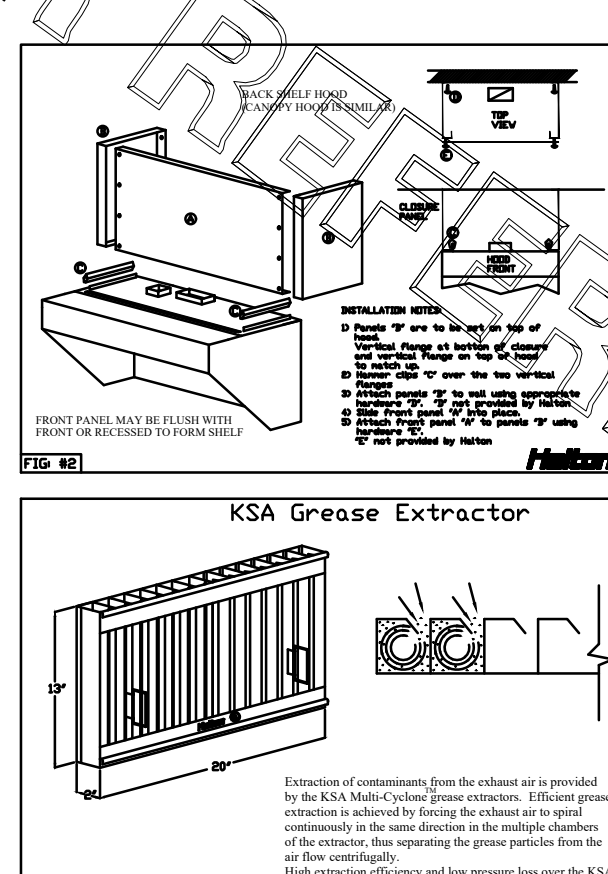
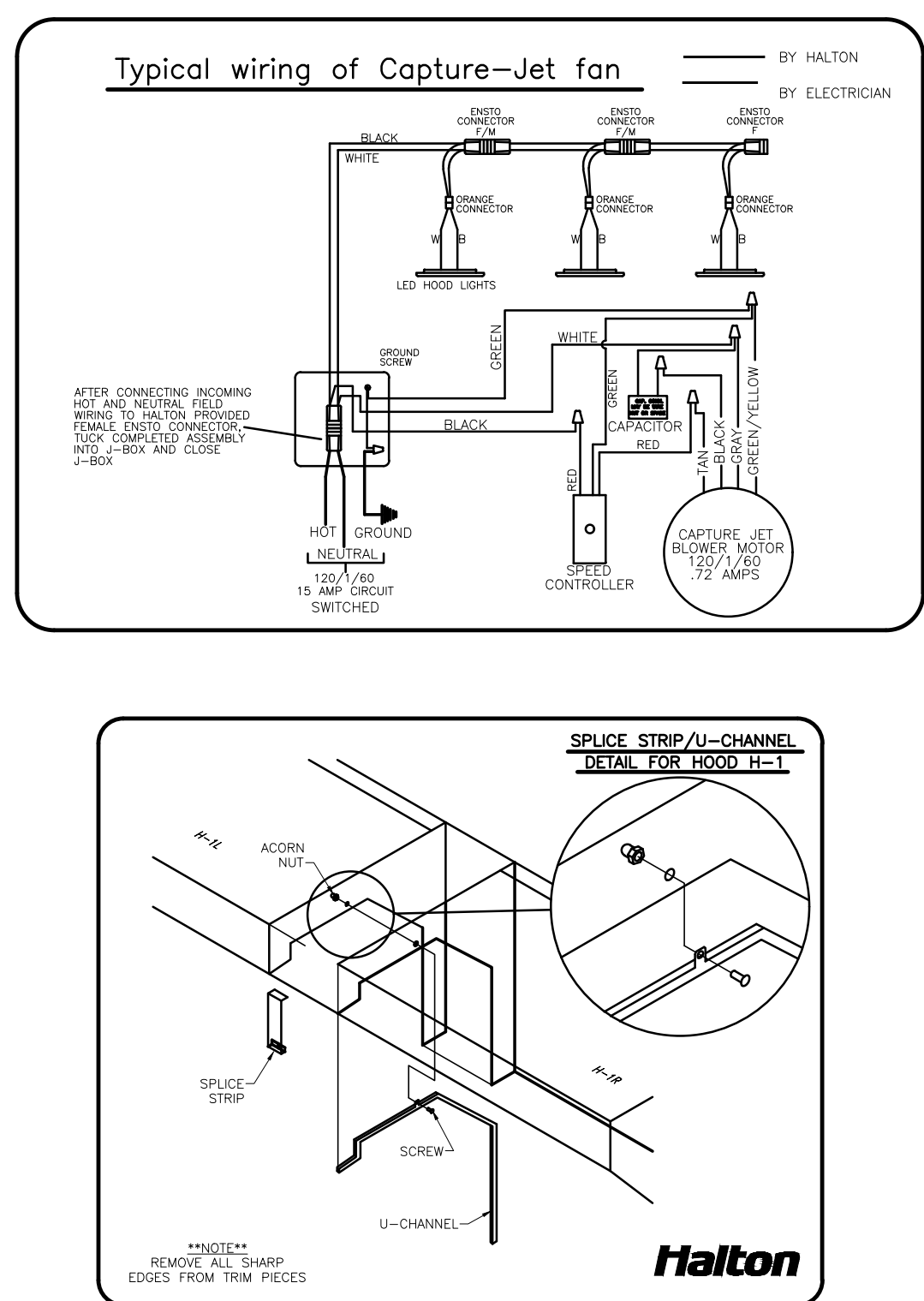
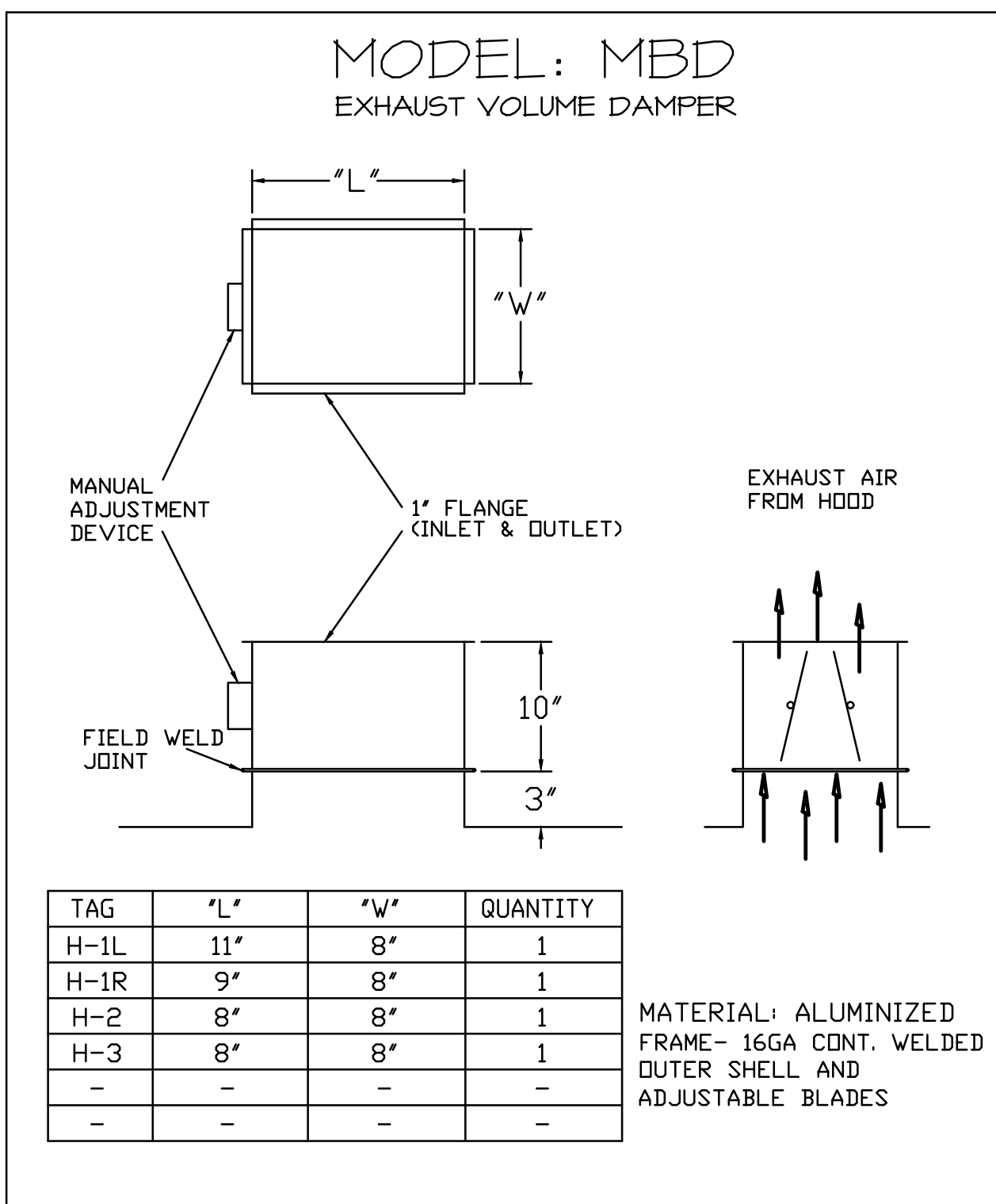
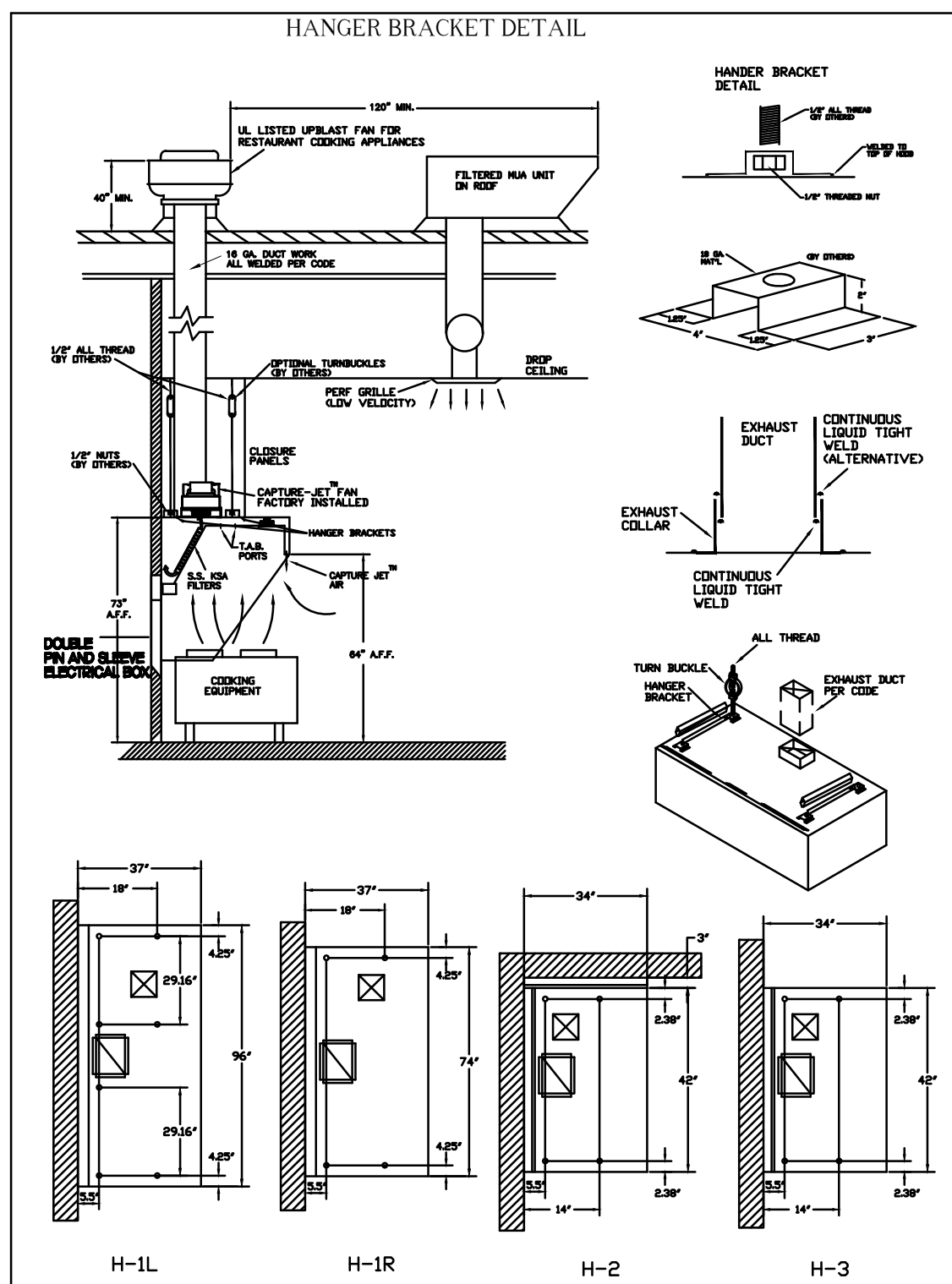
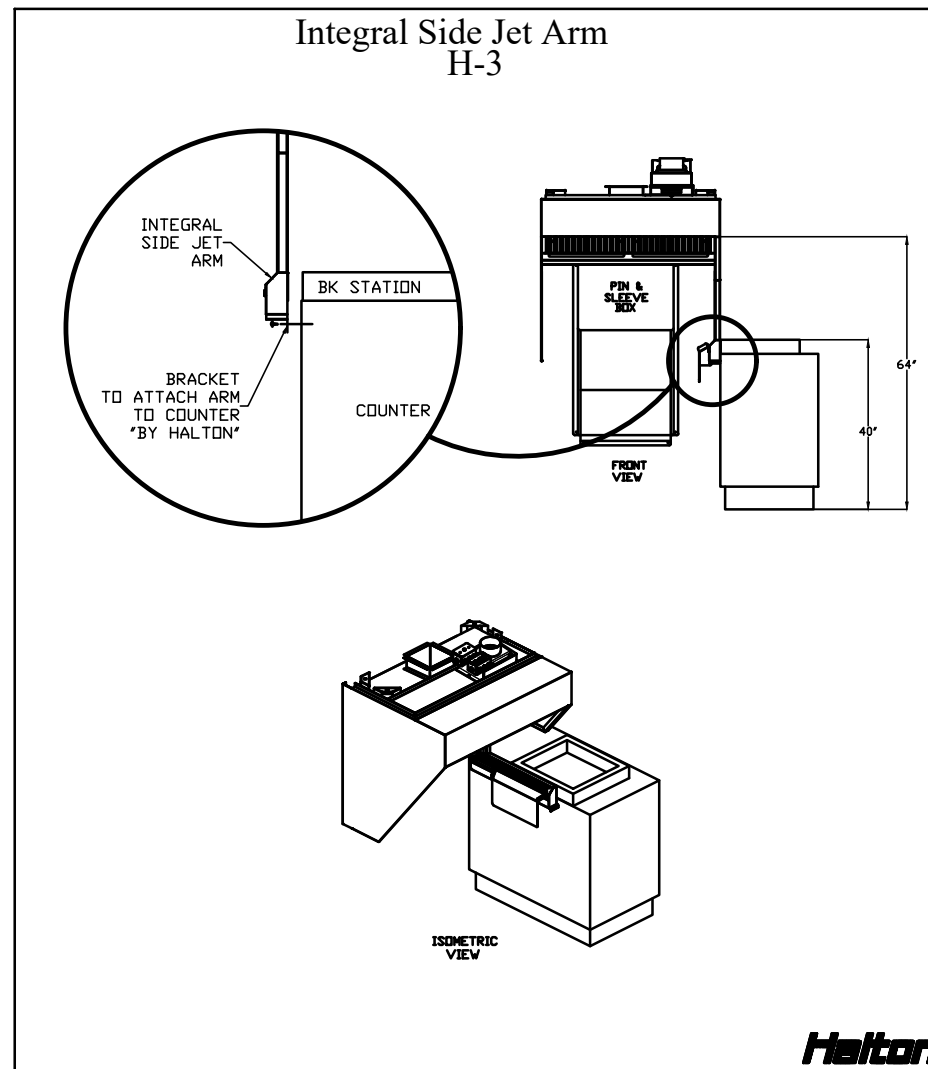
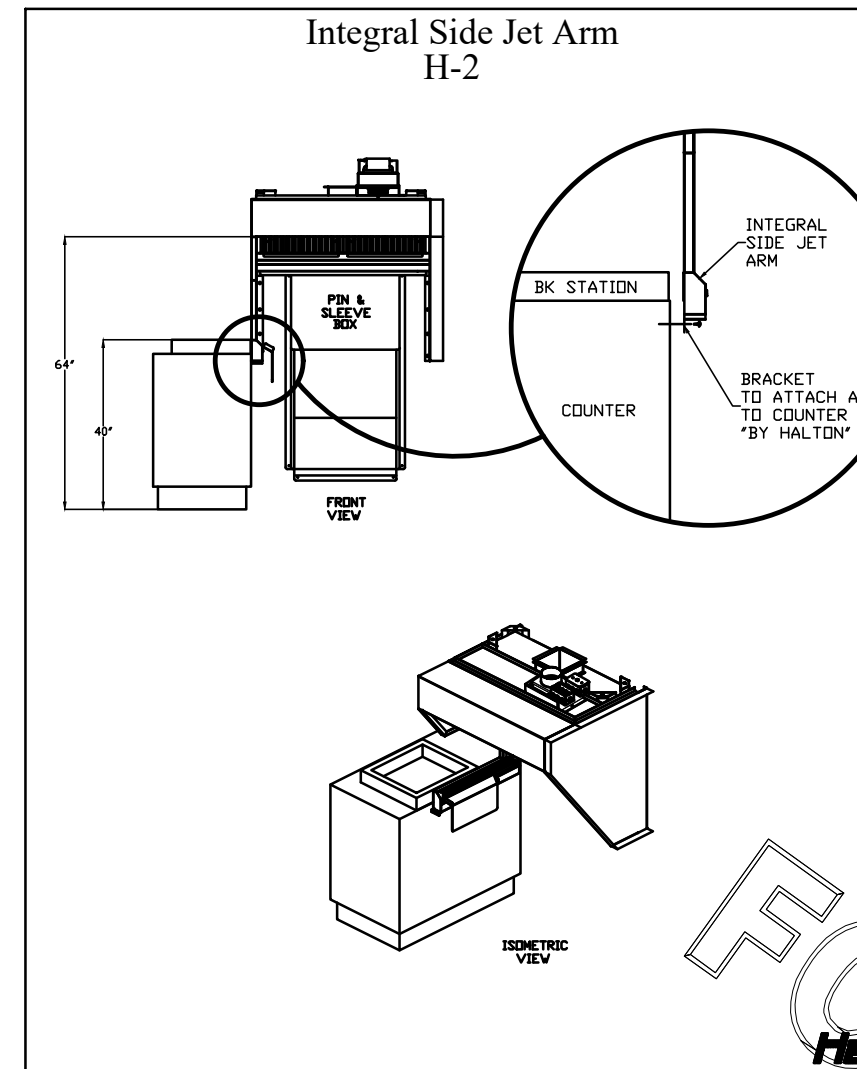
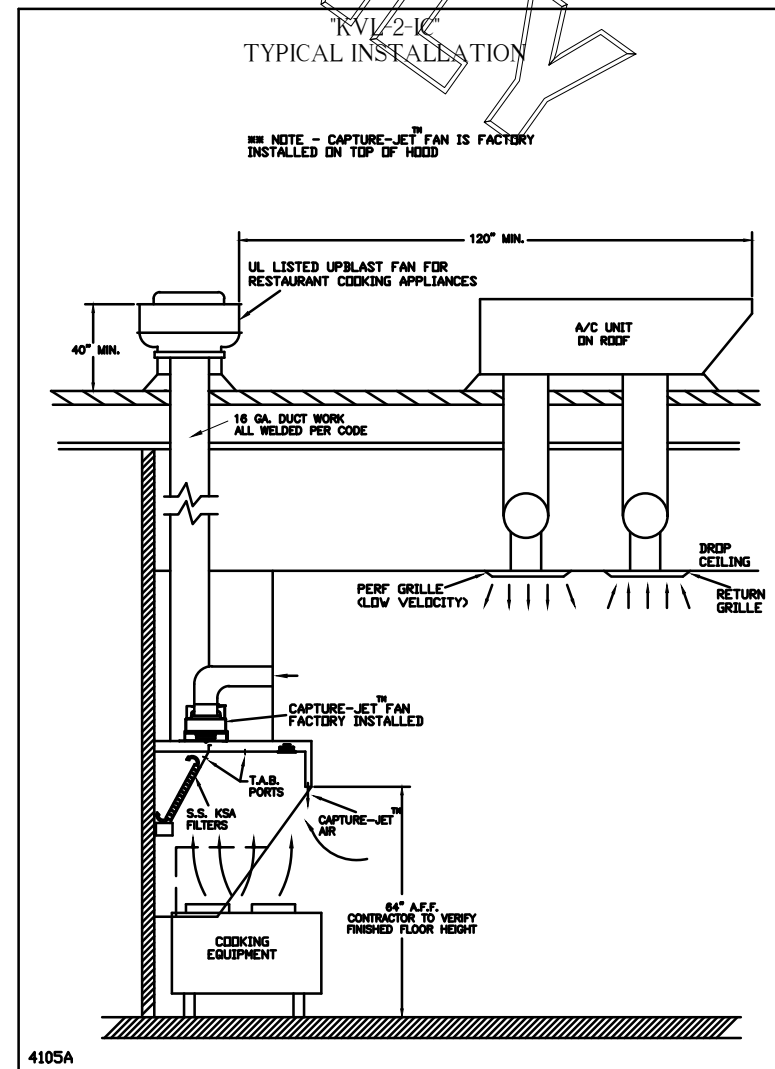
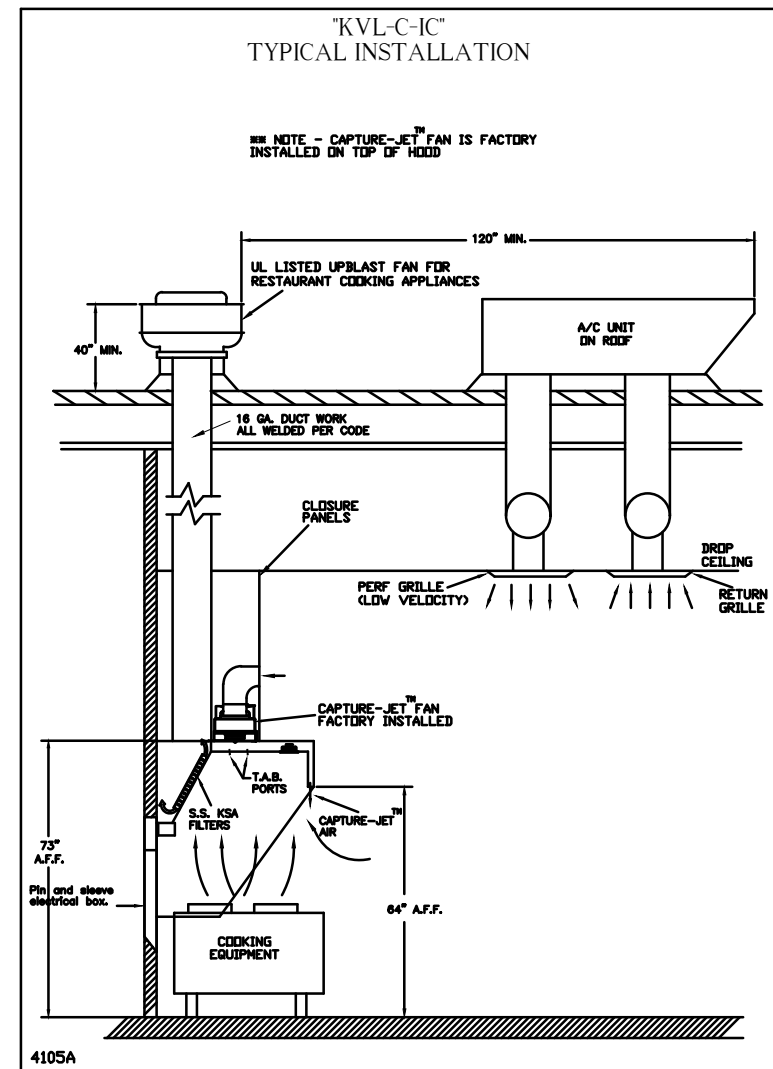
**Halton**

DATE	DWG. NO.	ITEM NO.	EXHAUST AIR INFORMATION		
			CFM	T.A.B.	SP
04.19.22	U22-308-01	H-3	701	.30	.39

PROJECT: CHICK-FIL-A #2092 EASTGATE PLAZA

LOCATION: GREENSBURG, PA

SUBMITTED BY: HALTON CO.



**HALTON HOODS**

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

**NSF Halton**

CONFORMS TO NSI 300.1, 300.2, 300.3, 300.4, 300.5, 300.6, 300.7, 300.8, 300.9, 300.10, 300.11, 300.12, 300.13, 300.14, 300.15, 300.16, 300.17, 300.18, 300.19, 300.20, 300.21, 300.22, 300.23, 300.24, 300.25, 300.26, 300.27, 300.28, 300.29, 300.30, 300.31, 300.32, 300.33, 300.34, 300.35, 300.36, 300.37, 300.38, 300.39, 300.40, 300.41, 300.42, 300.43, 300.44, 300.45, 300.46, 300.47, 300.48, 300.49, 300.50, 300.51, 300.52, 300.53, 300.54, 300.55, 300.56, 300.57, 300.58, 300.59, 300.60, 300.61, 300.62, 300.63, 300.64, 300.65, 300.66, 300.67, 300.68, 300.69, 300.70, 300.71, 300.72, 300.73, 300.74, 300.75, 300.76, 300.77, 300.78, 300.79, 300.80, 300.81, 300.82, 300.83, 300.84, 300.85, 300.86, 300.87, 300.88, 300.89, 300.90, 300.91, 300.92, 300.93, 300.94, 300.95, 300.96, 300.97, 300.98, 300.99, 300.100

**GENERAL REQUIREMENTS**

FLAVOR THE CHICKEN HOOD FOR OPERATIONAL AND INSTALLATION PURPOSES. THE HOOD MUST BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

1. THE HOOD MUST BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

2. THE HOOD MUST BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

3. THE HOOD MUST BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

4. THE HOOD MUST BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

5. THE HOOD MUST BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

6. THE HOOD MUST BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

7. THE HOOD MUST BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

8. THE HOOD MUST BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

9. THE HOOD MUST BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

10. THE HOOD MUST BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

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

- ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.
- THE LOCATION AND TYPE OF COOKING EQUIPMENT.

**NOTE TO APPROVER**

ANY CHANGES IN COOKING EQUIPMENT, SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT CHANGES, OCCURRING AFTER FABRICATION, WILL REQUIRE A RE-CALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.

REVISE AND RESUBMIT  WITH NO CHANGES  WITH CHANGES AS NOTED

APPROVED FOR FABRICATION

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

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW: WEBSITE: WWW.HALTONCOMPANY.COM

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

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

PROJECT: CHICK-FIL-A #2092 EASTGATE PLAZA GREENSBURG, PA

DATE: 04.19.22

SCALE: NTS

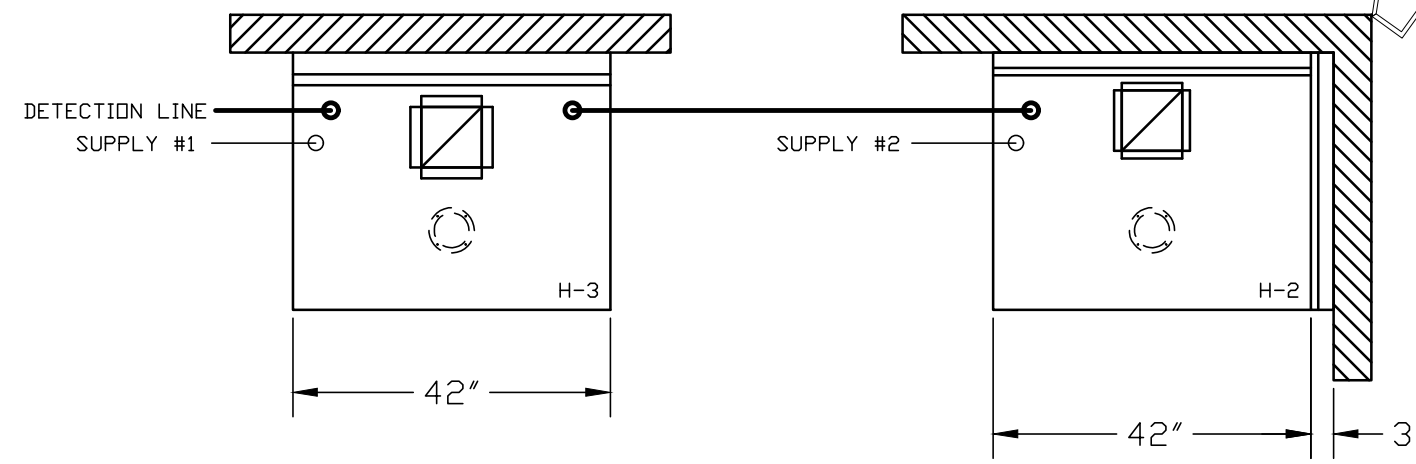
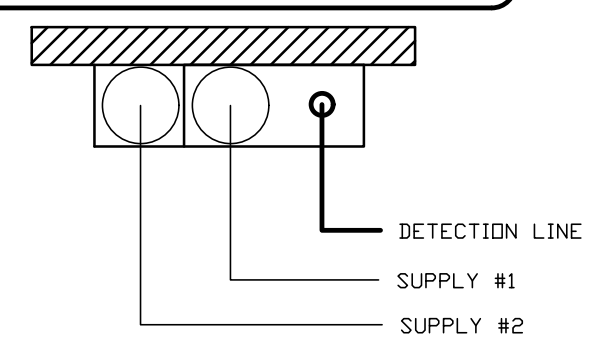
Halton Dwg: U22-308-01

**Halton**  
CARE FOR INDOOR AIR

Sheet **MH1.1**

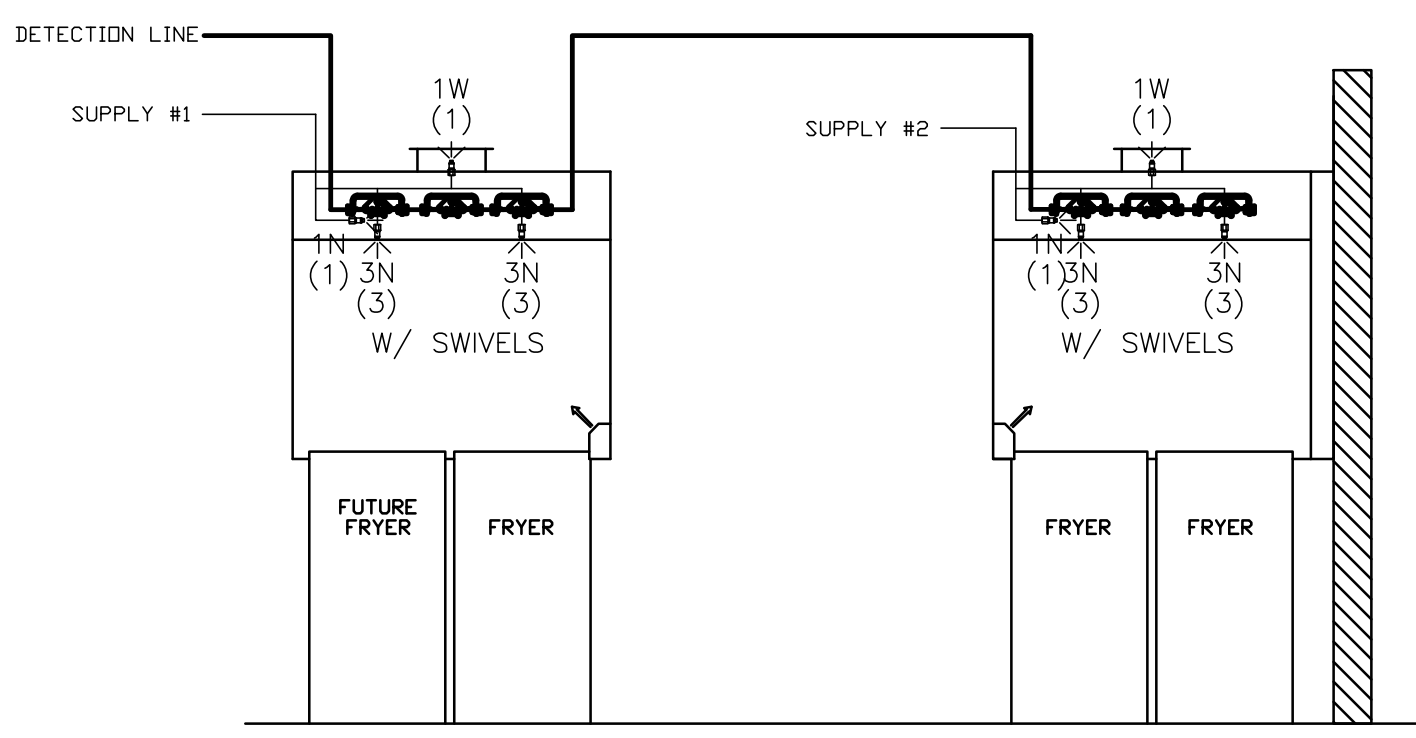
FOR REFERENCE ONLY

**\*\*PROTECTS HOODS H-2 & H-3\*\***  
 REMOTE MOUNTED:  
 (1) REGULATED RELEASE (WITH ONE TANK)  
 (1) SINGLE TANK ENCLOSURE (WITH ONE TANK)

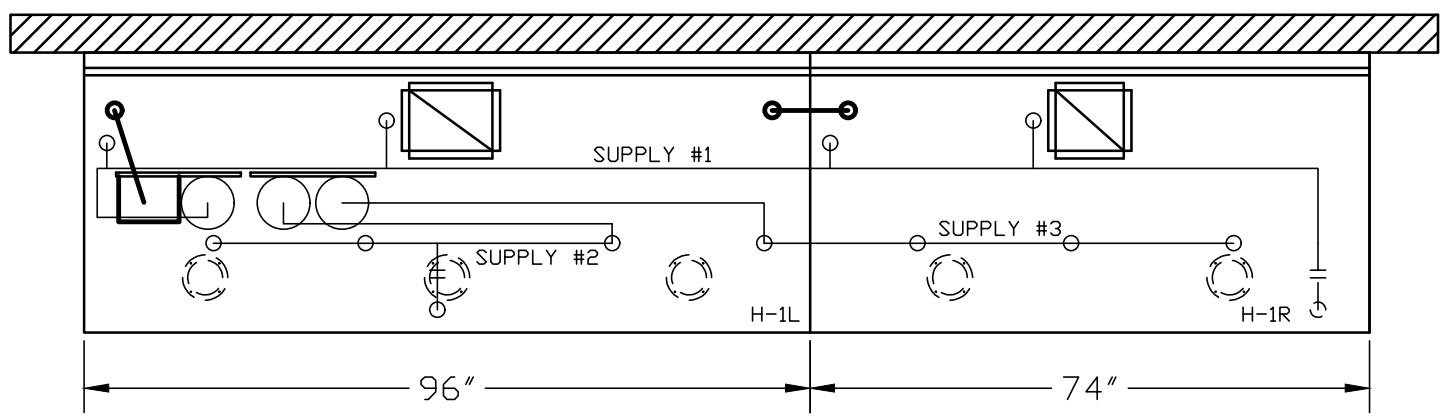


**ANSUL R-102 FIRE SYSTEM**  
 A) 6 GALLON SYSTEM (2 TANKS)  
 (REMOTE MOUNTED)  
 (FOR HOOD H-2 & H-3)  
 B) 3/8" BLACK IRON PIPING  
 W/ 3/8" S.S. APPLIANCE DROPS

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

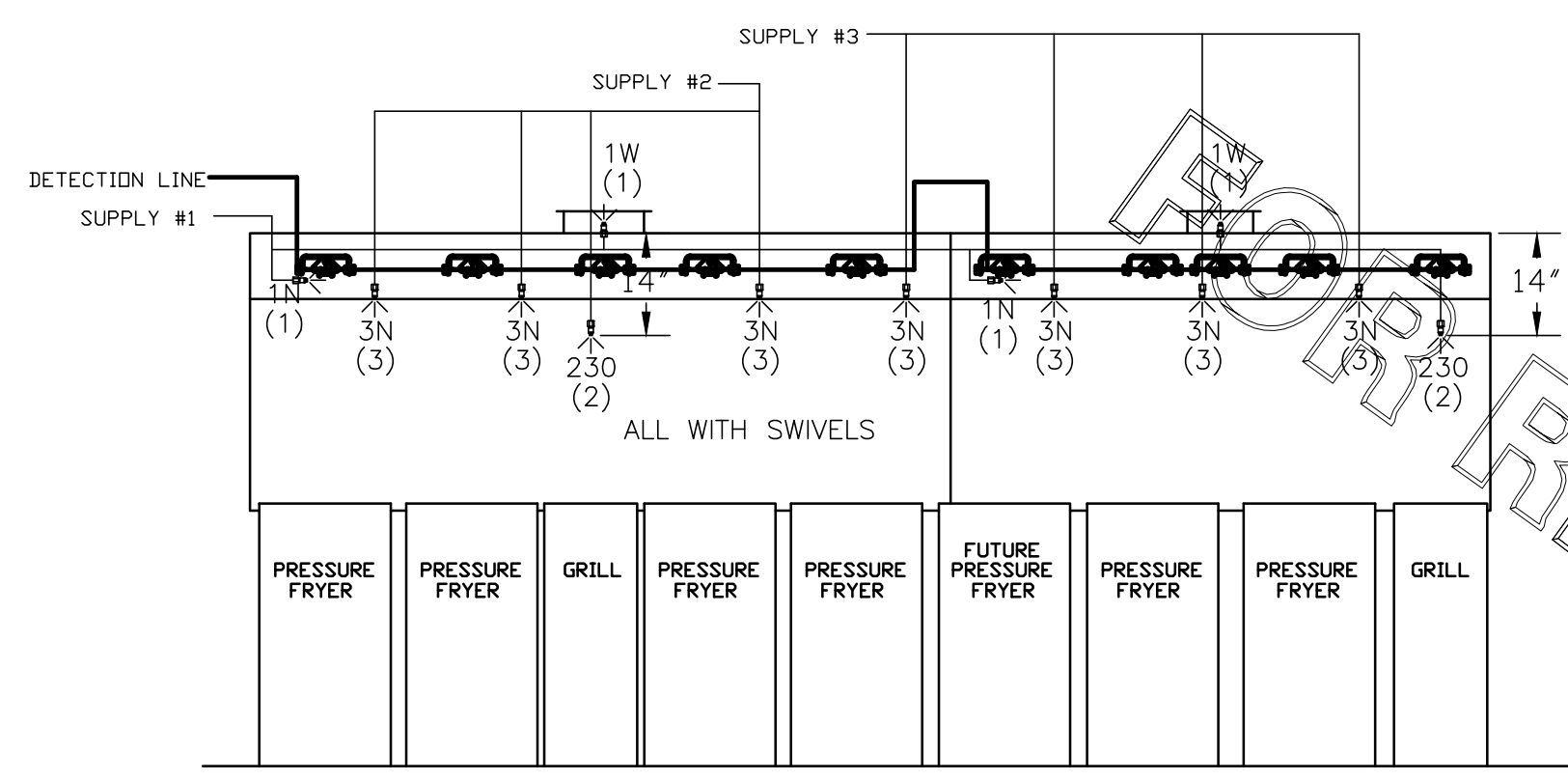


**ANSUL R-102 FIRE SYSTEM LAYOUT**



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

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



**ANSUL R-102 FIRE SYSTEM LAYOUT**

**FUSIBLE LINK RATINGS**

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

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

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

ITEM #	QTY	DESCRIPTION	FLOW PTS (TOTAL)
1W	4	DUCT NOZZLES	4
1N	4	PLENUM NOZZLES	4
230	2	APPLIANCE NOZZLES	4
3N	11	APPLIANCE NOZZLES	33
<b>TOTAL FLOW POINTS - 45</b>			

ITEM #	QTY	DESCRIPTION
#200	14	SERIES DETECTORS W/ FUSIBLE LINKS
#201	2	TERMINAL DETECTOR W/ FUSIBLE LINKS
#202	1	DEM REGULATED RELEASE
#202	1	W/ DOUBLE POLE MICRO SWITCH
#202	1	REGULATED RELEASE
#202	1	W/ DOUBLE POLE MICRO SWITCH
#203	5	3 GALLON TANKS
#204	1	SINGLE TANK ENCLOSURE
#205	2	REMOTE PULL STATION

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

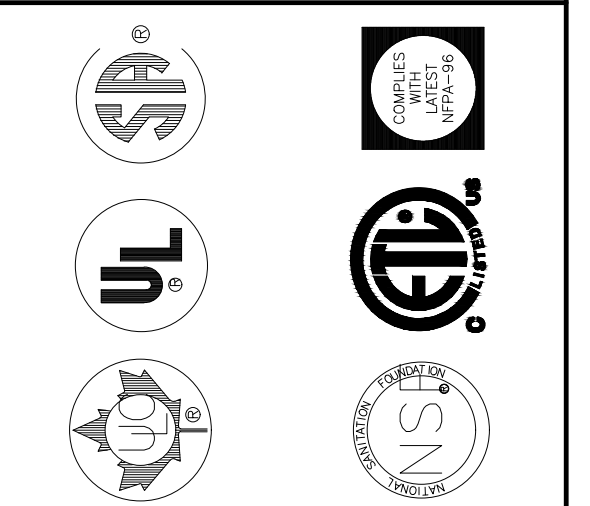
- FINAL INSTALLATION IS TO BE MADE IN ACCORDANCE WITH ALL APPLICABLE CODES
- ALL ELECTRICAL COMPONENTS FOR EQUIPMENT SHUT DOWN TO BE PROVIDED BY THE ELECTRICIAN. MICRO-SWITCH/INSTALLED IN REGULATED RELEASE BY ANSUL INSTALLER
- REMOTE PULL STATION LOCATED PER MECHANICAL DRAWINGS

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFYING THE FOLLOWING:  
 1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.  
 2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.

**NOTE TO APPROVER**  
 ANY CHANGES IN COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT CHANGES OCCURRING IN THE FIELD MUST BE REPORTED TO THE FACTORY IMMEDIATELY. ANY CHANGES OCCURRING IN THE FIELD MUST BE REPORTED TO THE FACTORY IMMEDIATELY. A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.

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

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



MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

WEBSITE: WWW.HALTONCOMPANY.COM	HALTON CO. (USA)	
	101 INDUSTRIAL DRIVE	
	SCOTTSDALE, KY 42164	
	1-270-237-5800	
	DATE _____	
	BY _____	
	REVISION DESCRIPTION	
REV.	1	
	2	
	3	
	4	
	5	
	6	
	7	

PROJECT: CHICK-FIL-A #2092  
 EASTGATE PLAZA  
 GREENSBURG, PA

LOCATION: GREENSBURG, PA  
 DRAWN BY: AF DATE: 04.19.22  
 SCALE: NTS  
 Halton Dwg: U22-308-02