

MODEL: KVL-2

STANDARD FEATURES

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

OPTIONS

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

MATERIAL

- EXPOSED SURFACES 18 GA. S.S. *
- ALL 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 24" ACCESS TO ANSUL TANKS
- 18"X18" ACCESS DOOR RIGHT SIDE AT CAPTURE-JET W/ FRONT CJ INTAKE
- CONTINUOUS CAPTURE INTERNAL RIGHT END CUTOFF
- 3" REAR STAND-OFF TO HAVE 1" THICK INSULATION
- NOTCHED LEFT END PANEL

EXHAUST AIR INFORMATION

DATE	DWG. NO.	ITEM NO.	EXHAUST AIR INFORMATION		
			CFM	T.A.B.	SP
03.19.20	U20-285-01	H-1L	1080	.13"	.24"

CAPTURE AIR INFORMATION

DATE	DWG. NO.	ITEM NO.	EXHAUST AIR INFORMATION	
			CFM	SP
			72	.30"

DATE: 03.19.20 DWG. NO.: U20-285-01 ITEM NO.: H-1L EXHAUST AIR INFORMATION: 1080 CFM, T.A.B.: .13", SP: .24" CAPTURE AIR INFORMATION: 72 CFM, SP: .30"

MODEL: KVL-2

STANDARD FEATURES

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

OPTIONS

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

MATERIAL

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

COMMENTS:

- CLOSURE HEIGHT = TBD (TWO SIDES)
- CEILING HEIGHT = ADVISE CEILING CLOSURE RECESSED 1" FROM FRONT TO CREATE SHELF
- 18"X18" ACCESS DOOR RIGHT SIDE FOR ACCESS TO CAPTURE-JET W/ FRONT CJ INTAKE
- CONTINUOUS CAPTURE INTERNAL LEFT END CUTOFF
- FULL RIGHT END PANEL
- 3" REAR STAND-OFF TO HAVE 1" THICK INSULATION
- EQUIPMENT COVERED (2) PRESSURE FRYERS @ GRILL
- HOOD WEIGHT = 466 LBS

EXHAUST AIR INFORMATION

DATE	DWG. NO.	ITEM NO.	EXHAUST AIR INFORMATION		
			CFM	T.A.B.	SP
03.19.20	U20-285-01	H-1R	832	.13"	.24"

CAPTURE AIR INFORMATION

DATE	DWG. NO.	ITEM NO.	EXHAUST AIR INFORMATION	
			CFM	SP
			55	.30"

DATE: 03.19.20 DWG. NO.: U20-285-01 ITEM NO.: H-1R EXHAUST AIR INFORMATION: 832 CFM, T.A.B.: .13", SP: .24" CAPTURE AIR INFORMATION: 55 CFM, SP: .30"

MODEL: KVL-C

STANDARD FEATURES

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

OPTIONS

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

MATERIAL

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

COMMENTS:

- CLOSURE HEIGHT = TBD (TWO SIDES)
- CEILING HEIGHT = ADVISE CEILING CLOSURE RECESSED 1" FROM FRONT TO CREATE SHELF
- 18"X18" ACCESS DOOR CENTERED AT CAPTURE-JET W/ FRONT CJ INTAKE
- NOTCHED LEFT END PANEL
- DOUBLE RECEPTACLE PIN & SLEEVE
- 3" X 3" TRIM STRIP FOR STAND-OFF ON RIGHT END
- 3" SIDE & REAR STAND-OFF TO HAVE 1" THICK INSULATION
- EQUIPMENT COVERED (2) PRESSURE FRYERS @ GRILL
- HOOD WEIGHT = 262 LBS

EXHAUST AIR INFORMATION

DATE	DWG. NO.	ITEM NO.	EXHAUST AIR INFORMATION		
			CFM	T.A.B.	SP
03.19.20	U20-285-01	H-2	701	.30"	.39"

CAPTURE AIR INFORMATION

DATE	DWG. NO.	ITEM NO.	EXHAUST AIR INFORMATION	
			CFM	SP
			30	.29"

DATE: 03.19.20 DWG. NO.: U20-285-01 ITEM NO.: H-2 EXHAUST AIR INFORMATION: 701 CFM, T.A.B.: .30", SP: .39" CAPTURE AIR INFORMATION: 30 CFM, SP: .29"

MODEL: KVL-D

STANDARD FEATURES

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

OPTIONS

- REMOTE SWITCH PANEL *
- FIRE PROTECTION *
- ETL LISTED W/O EXHAUST DAMPER *
- CEILING CLOSURE 3
- MBD DAMPER *

MATERIAL

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

COMMENTS:

- CLOSURE HEIGHT = TBD (THREE SIDES)
- CEILING CLOSURE RECESSED 1" FROM FRONT TO CREATE SHELF
- 18"X18" ACCESS DOOR TO CAPTURE-JET W/ FRONT CJ INTAKE
- SIDE-JET PLENUM SUPPLIED BY HALTON INSTALLED BY OTHERS (DETAIL "A")
- NOTCHED RIGHT END PANEL
- 3" REAR SIDE STAND-OFF TO HAVE 1" THICK INSULATION
- EQUIPMENT COVERED (2) PRESSURE FRYERS @ GRILL
- HOOD WEIGHT = 150 LBS

EXHAUST AIR INFORMATION

DATE	DWG. NO.	ITEM NO.	EXHAUST AIR INFORMATION		
			CFM	T.A.B.	SP
03.19.20	U20-285-01	H-3	390	.37"	.42"

CAPTURE AIR INFORMATION

DATE	DWG. NO.	ITEM NO.	EXHAUST AIR INFORMATION	
			CFM	SP
			18	.30"

DATE: 03.19.20 DWG. NO.: U20-285-01 ITEM NO.: H-3 EXHAUST AIR INFORMATION: 390 CFM, T.A.B.: .37", SP: .42" CAPTURE AIR INFORMATION: 18 CFM, SP: .30"

Capture-Jet Fan Installation and Dimensional Data

Front of Closures

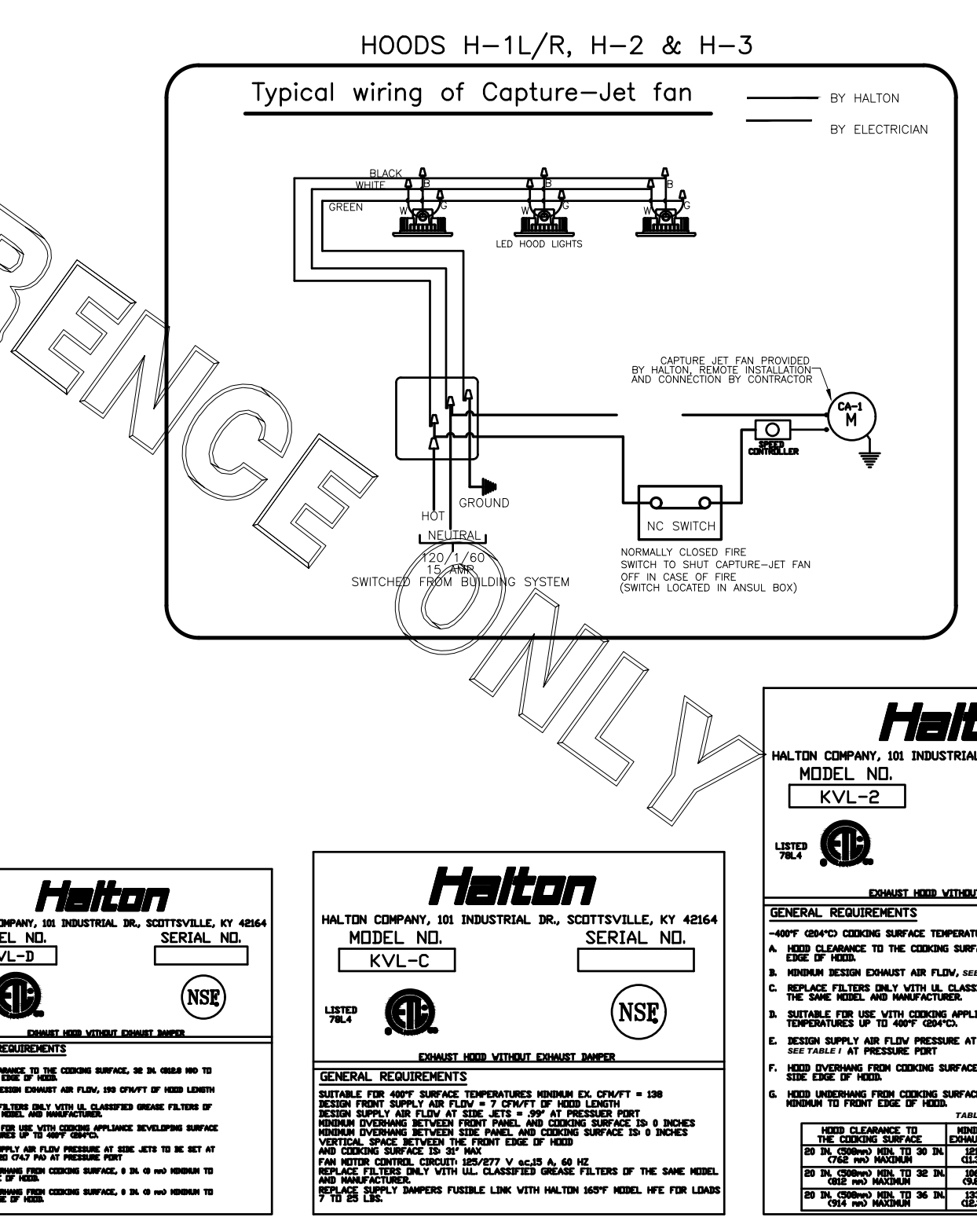
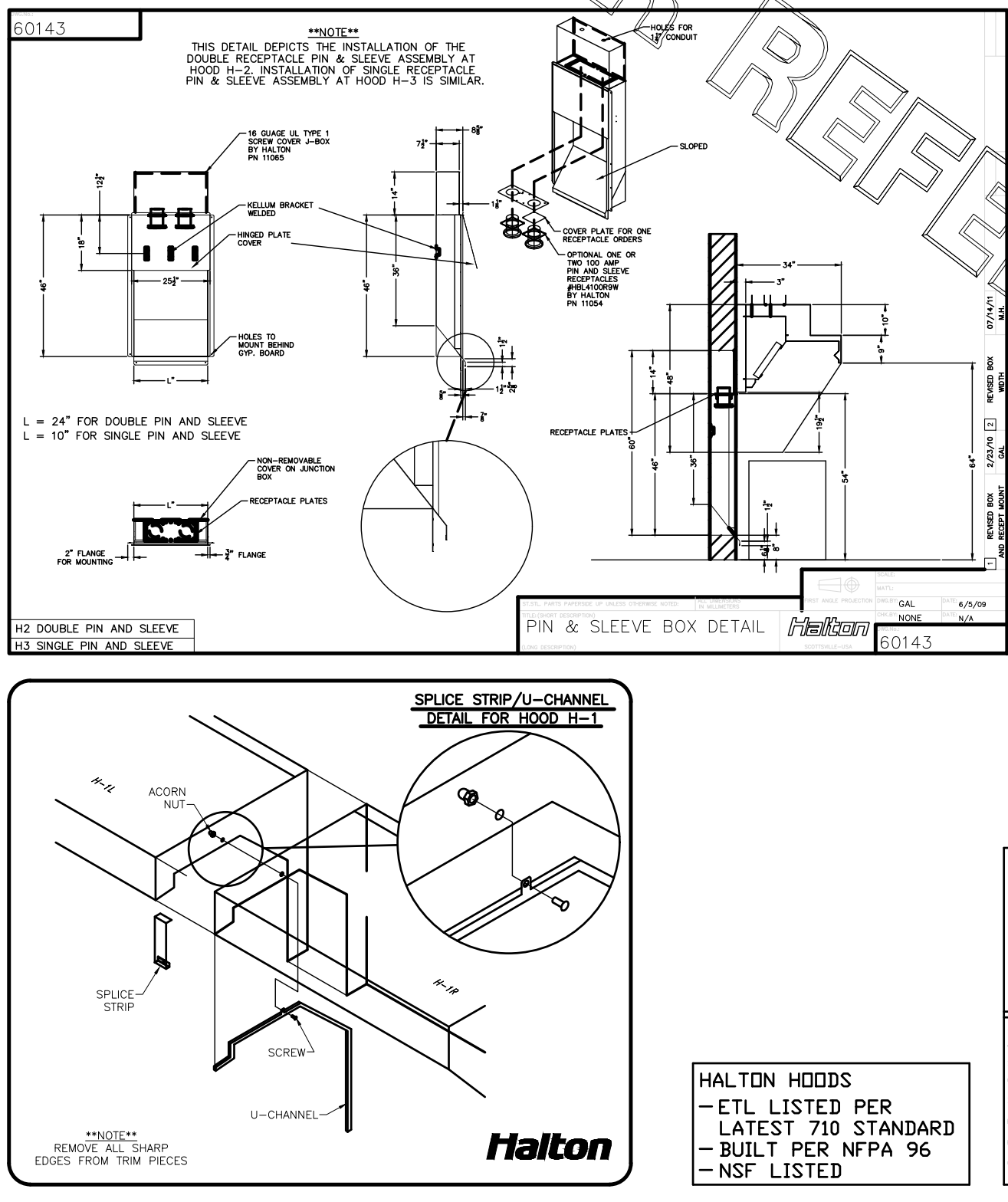
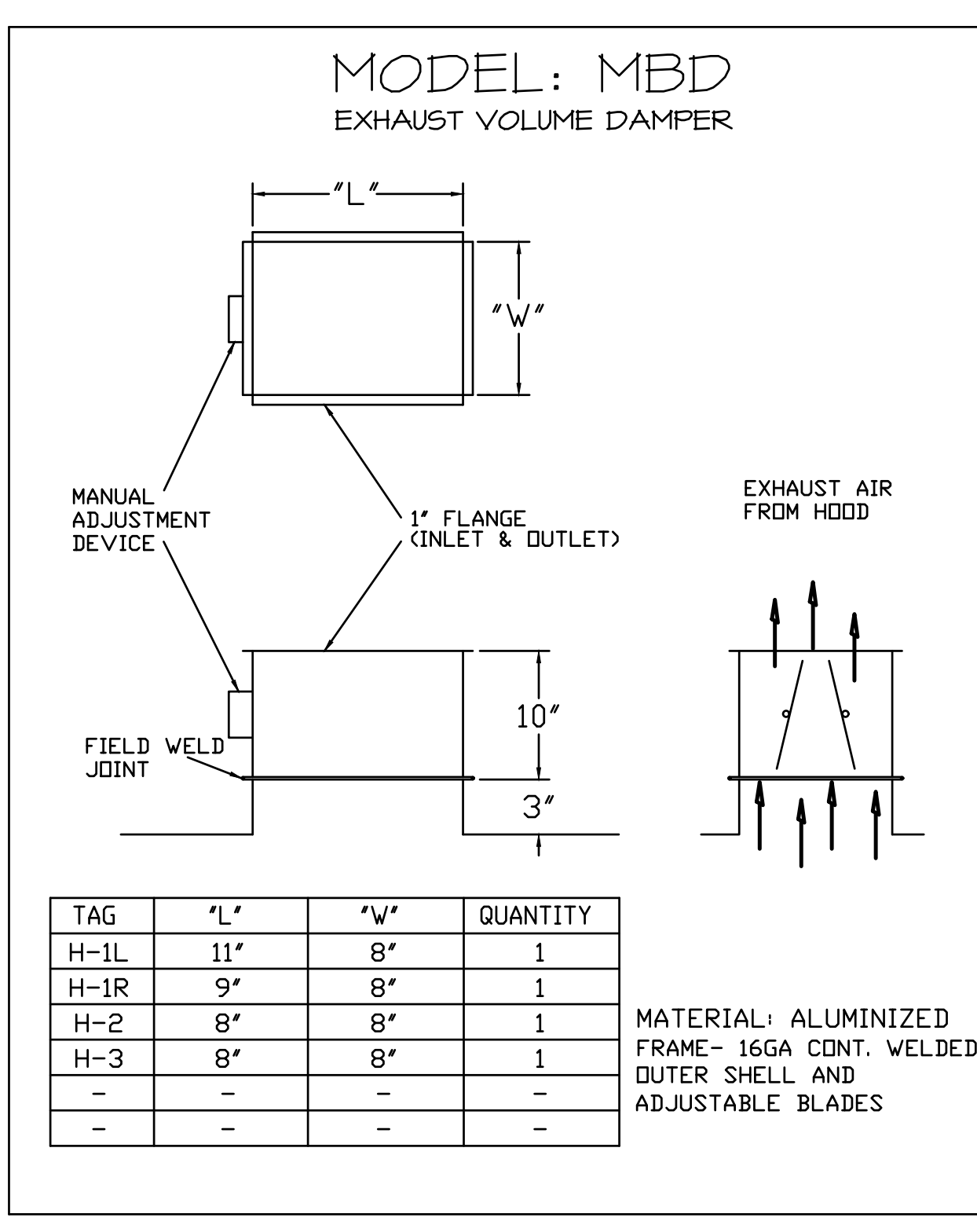
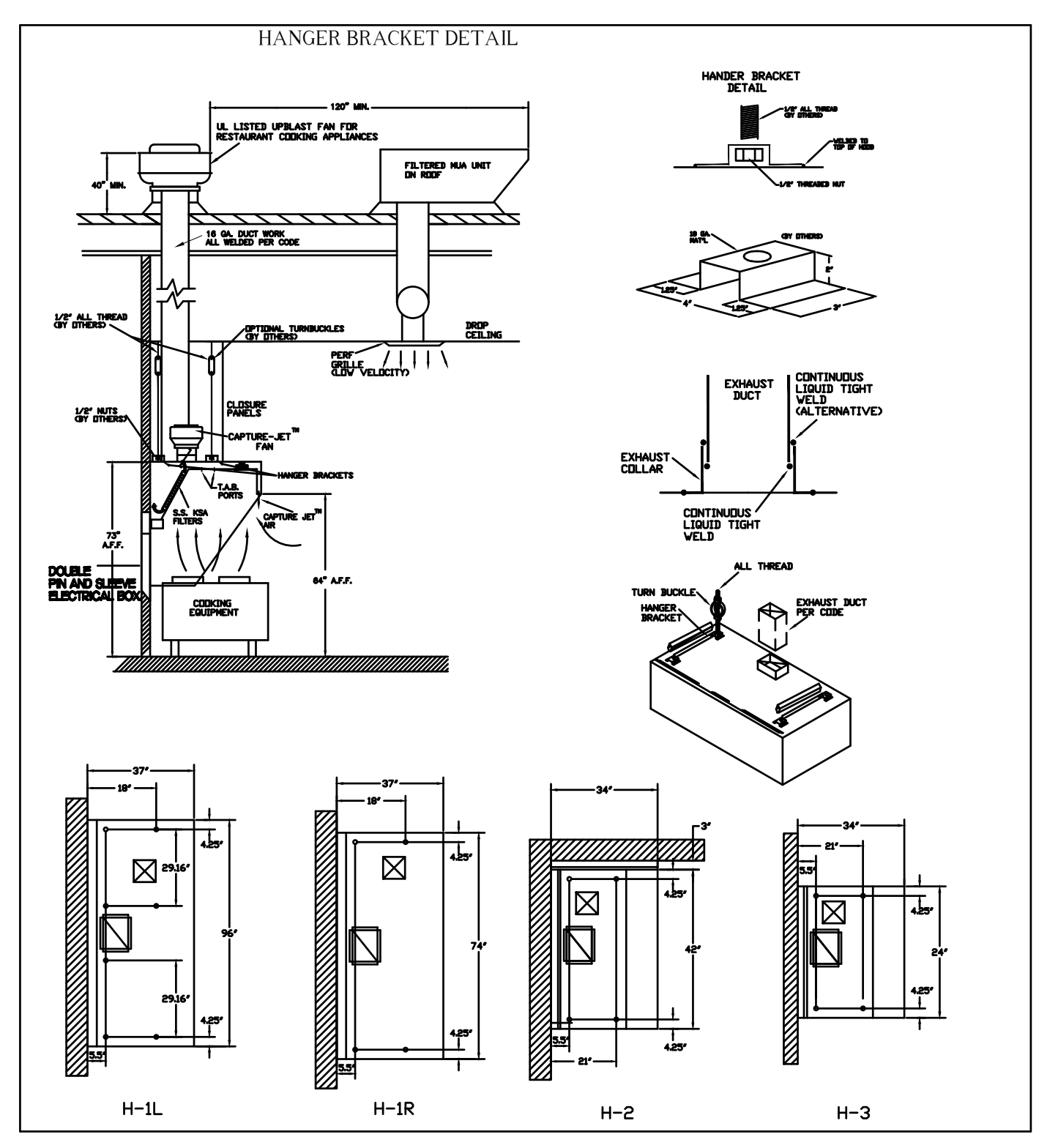
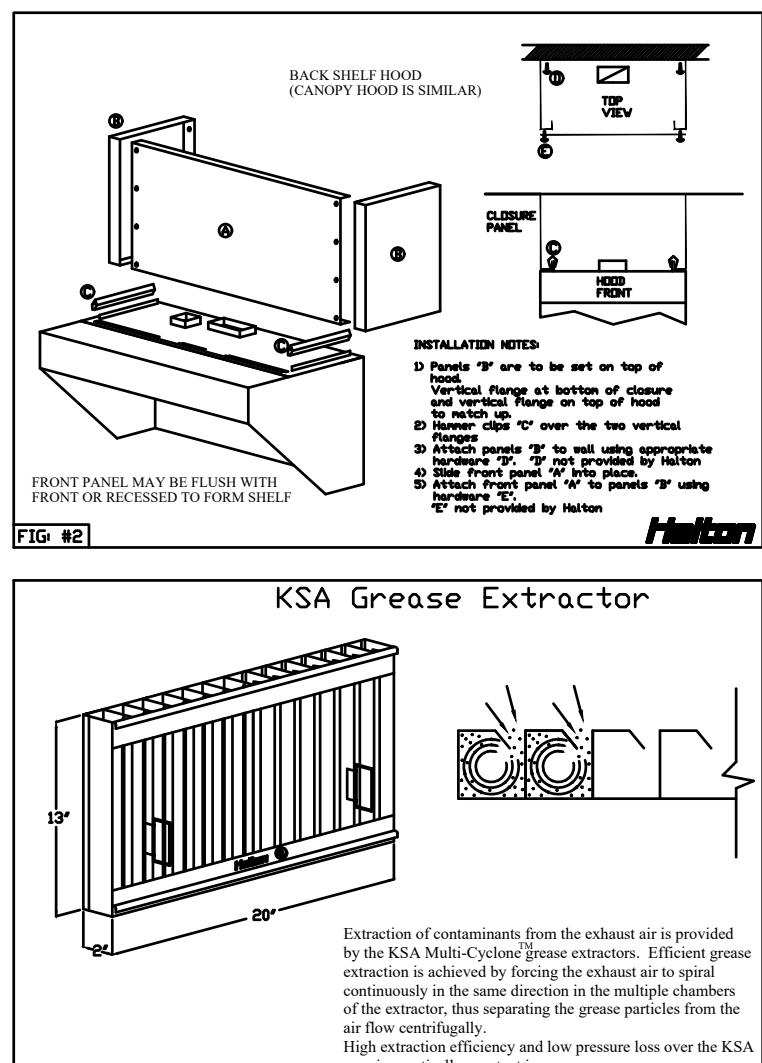
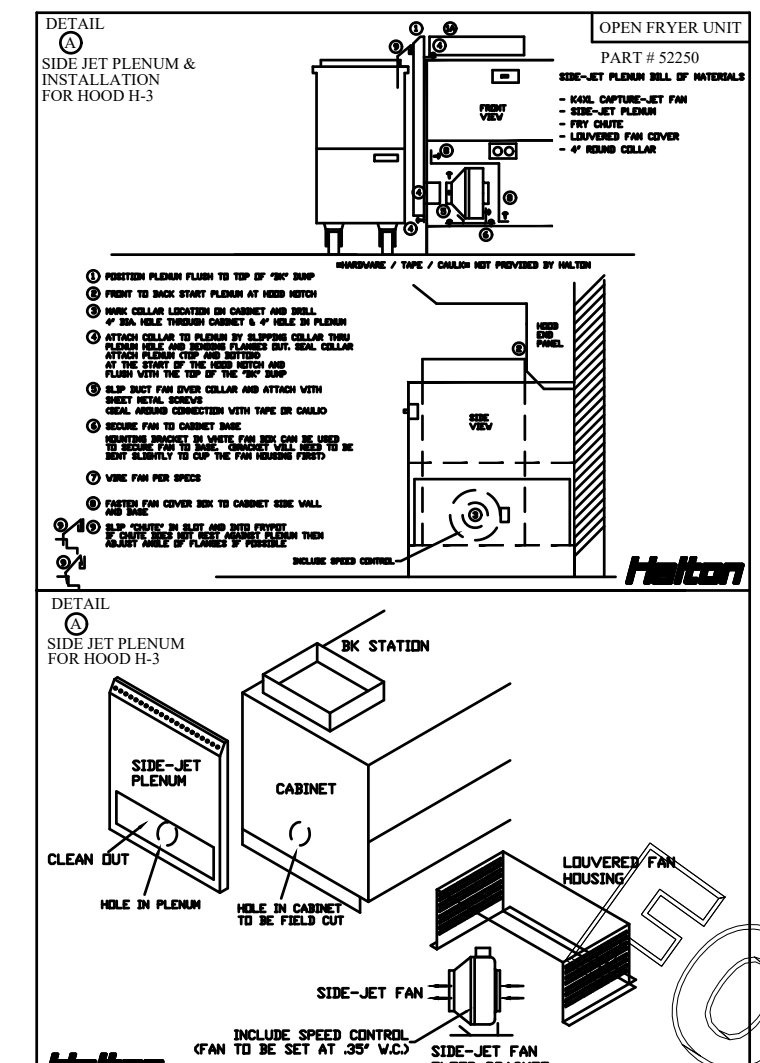
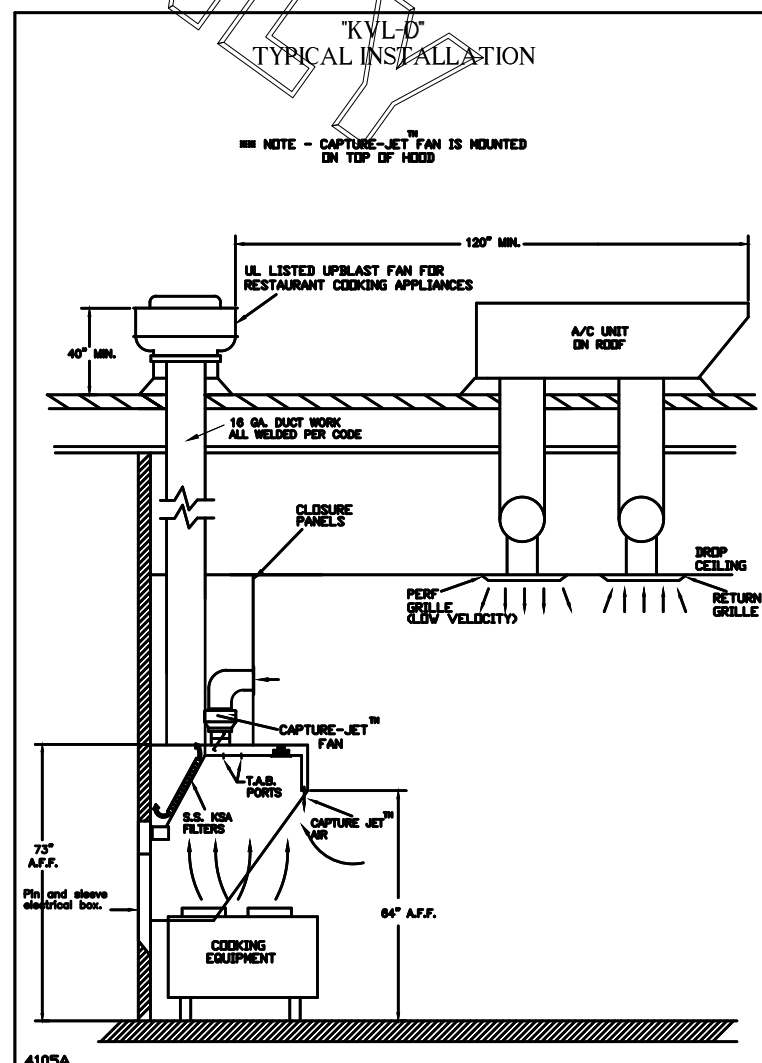
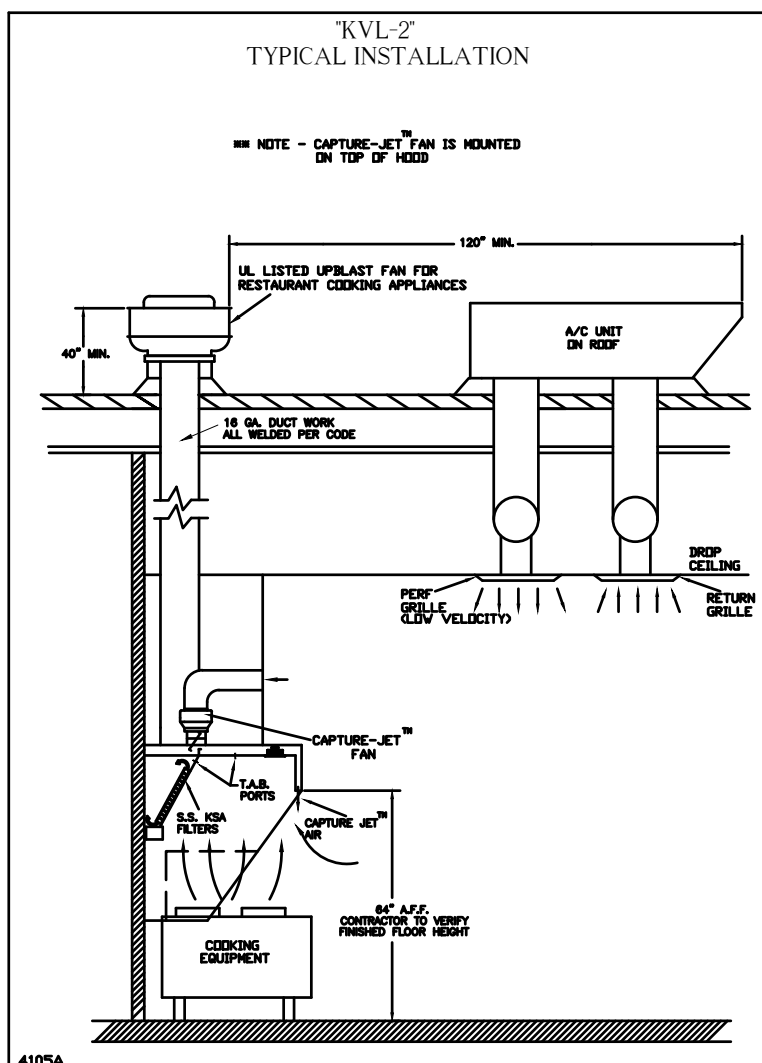
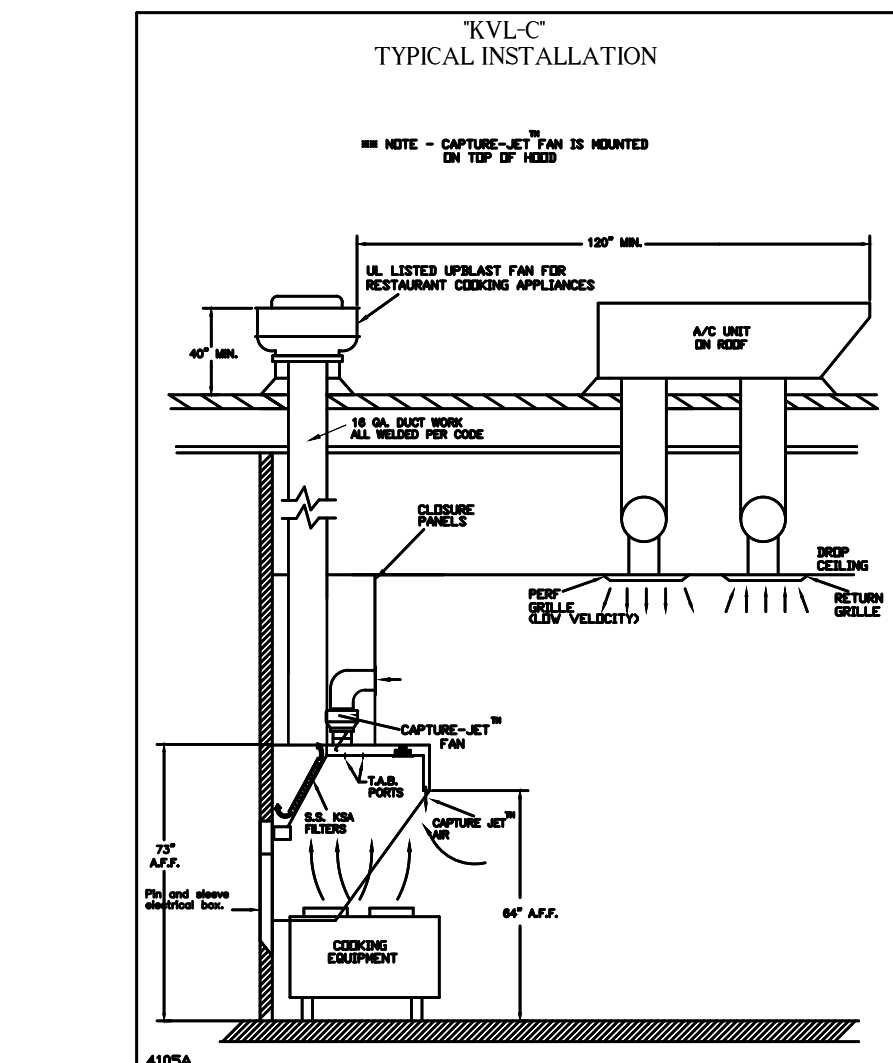
CJ Intake

w/ Collar Fitting (Back side)

5 AMP SPEED CONTROLLER LOCATION

PROJECT: CHICK-FIL-A #1920 MONTROSE

DATE: 03.19.20



Halton

Halton Company, 101 Industrial Dr., Scottsville, KY 42164

MODEL NO. KVL-2 SERIAL NO. []

GENERAL REQUIREMENTS

- HOOD MUST BE INSTALLED TO THE CEILING SURFACE.
- HOOD MUST BE INSTALLED TO THE CEILING SURFACE.
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PROJECT: CHICK-FIL-A #1920 MONTROSE

LOCATION: FAIRLAWN, OH

DATE: 03.19.20

SCALE: NTS

Halton-Dwg: U20-285-01

Halton

CARE FOR INDOOR AIR

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 POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECALCULATION ENLIGHTEN APPEAR MAY BE REQUIRED.

REVISION 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

SCOTTSTVILLE, KY 42164

1-270-237-5600

HALTON CO. (CANADA)

1021 BREW PLACE

MISSISSAUGA, ON L4W 3R7

1-905-624-0301

REVISION DESCRIPTION

REV.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		

PROJECT: CHICK-FIL-A #1920 MONTROSE

LOCATION: FAIRLAWN, OH

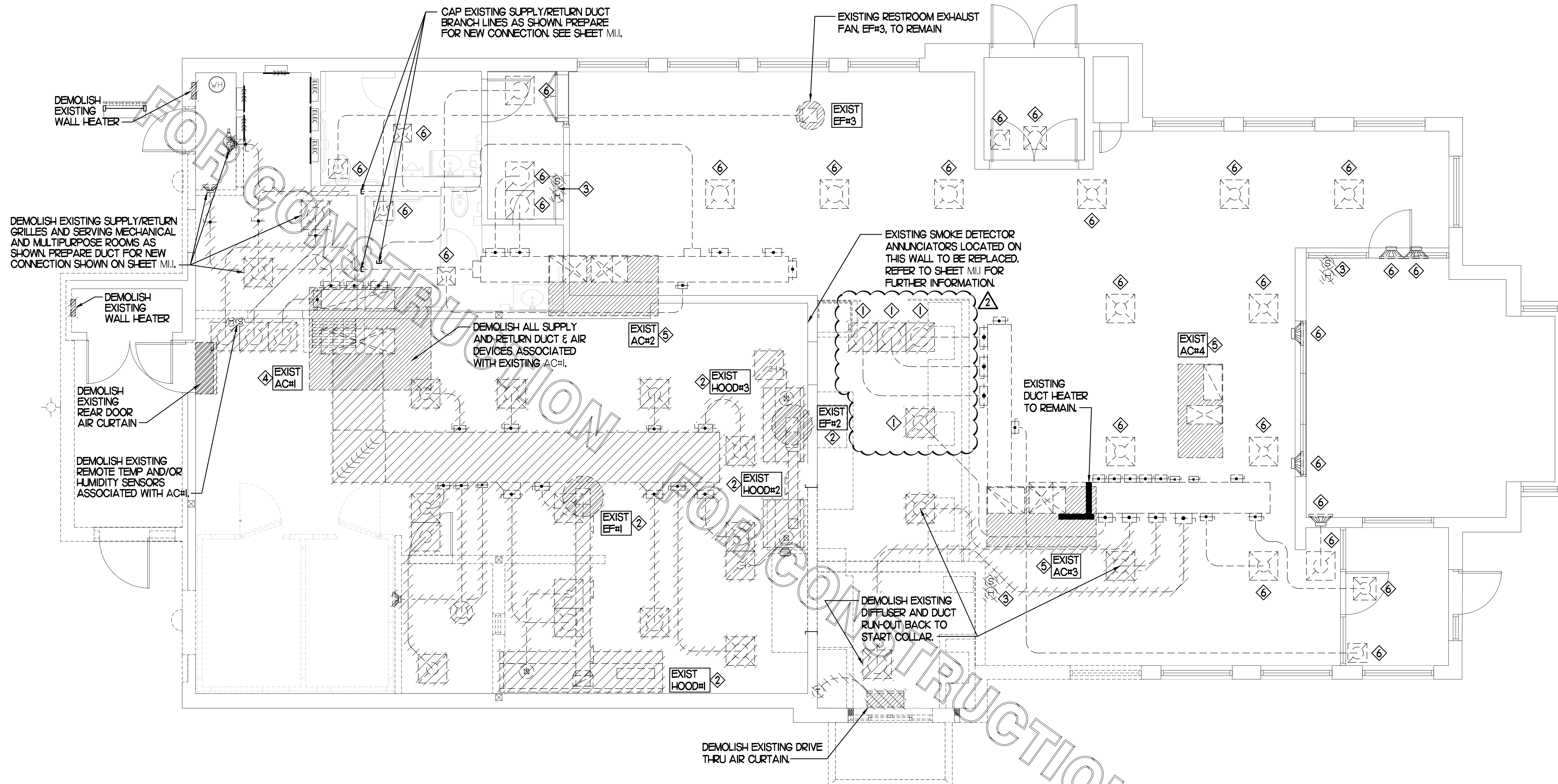
DATE: 03.19.20

SCALE: NTS

Halton-Dwg: U20-285-01

Sheet

MHI



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 S/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.

1 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

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 KEY NOTES

- 1 DETACH AND DEMOLISH EXISTING AIR DEVICE. SECURE DUCT ABOVE CEILING GRID FOR RE-CONNECTION. SEE SHEET M.I.I 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. SEE SHEET M.I.I FOR FURTHER INFORMATION.
- 4 EXISTING ACH#1 TO BE REPLACED WITH NEW. DEMOLISH EXISTING UNIT, CONTROLS (REMOTE TEMP SENSOR, REMOTE HUMIDITY SENSOR, TSTAT, REMOTE SMOKE DETECTOR TEST/RESET STATIONS, ETC.). SUPPLY/RETURN AIR DROPS, ALL ASSOCIATED SUPPLY/RETURN DUCT & AIR DEVICES (UNLESS NOTED OTHERWISE). COVER CURB WEATHER-TIGHT FOR RE-USE. SEE SHEET M.I.I FOR FURTHER INFORMATION.
- 5 EXISTING AC UNIT TO BE REPLACED WITH NEW AS SCHEDULED ON SHEET M.I.I. UNLESS NOTED OTHERWISE, DEMOLISH ALL EXISTING UNIT CONTROLS (REMOTE TEMP. SENSOR, REMOTE HUMIDITY SENSOR, TSTAT, REMOTE SMOKE DETECTOR ANNUNCIATOR, ETC.). EXISTING ROOF CURB AND SUPPLY & RETURN DUCT TO REMAIN. COVER CURB WEATHER-TIGHT FOR RE-USE.
- 6 EXISTING AIR DEVICE TO REMAIN. SEE SHEET M.I.I FOR EXISTING AIR FLOW DISTRIBUTION RATE AND RE-BALANCE INFORMATION IF NECESSARY.



Chick-fil-A

5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By
2	05.14.2020	PERMIT ISSUE
3	06.05.2020	BID ISSUE
4	07.17.2020	CONSTRUCTION ISSUE
5	07.31.2020	CONSTRUCTION CLARIFICATION



Kurzynske & Associates
CONSULTING ENGINEERS
2900 Lebanon Pike, Ste 201
Nashville, Tennessee 37214
Telephone: (615) 255-5203
Fax: (615) 255-5207
Email: mail@kurzynske.com

STORE #01920
MONTROSE FSU

47 FLIGHT MEMORIAL
PKWY, FAIRLAWN OH,
44333

SHEET TITLE
**MECHANICAL
DEMO PLAN**

VERSION: S06-C
ISSUE DATE: 04.10.20

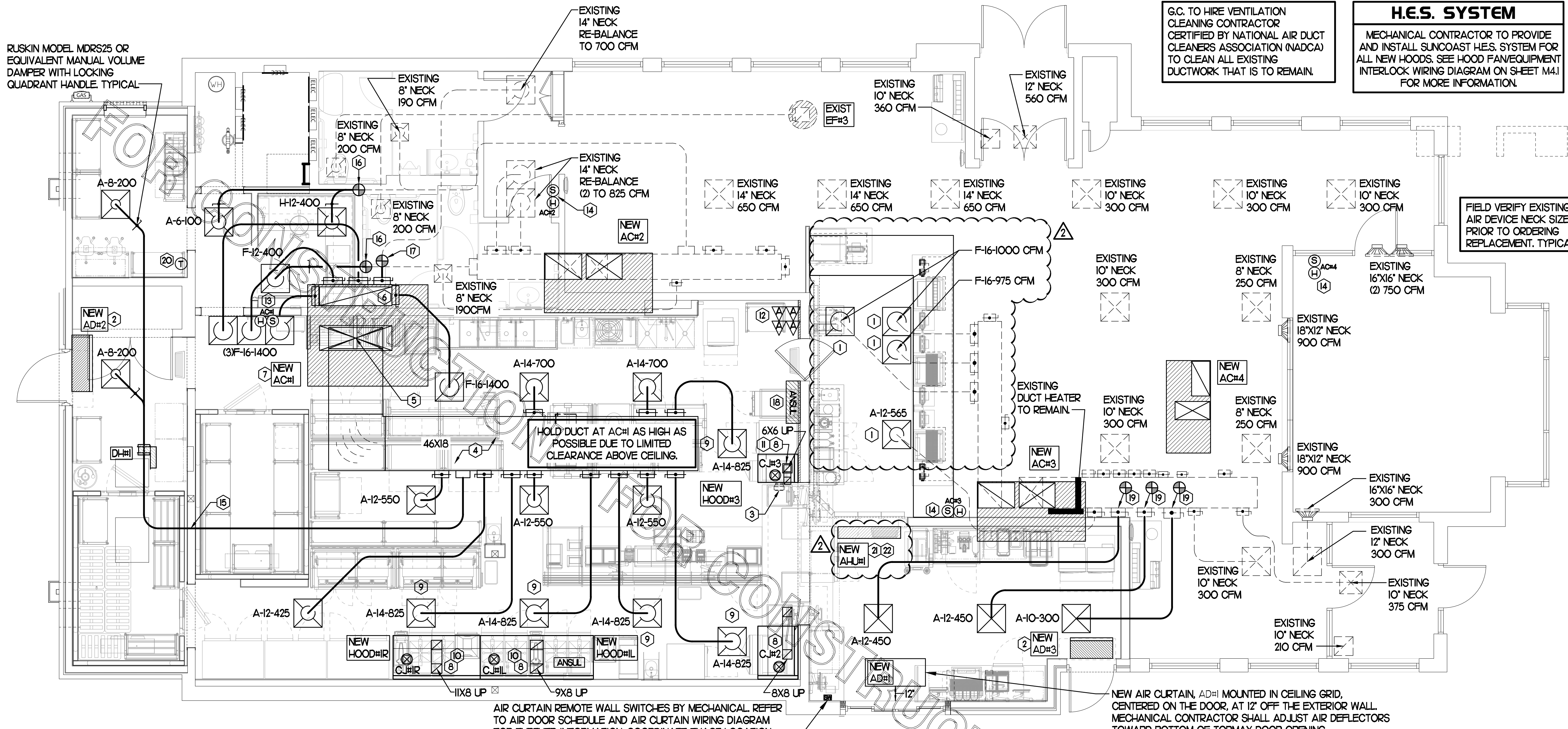
Job No. : 20033.CD.R
Store : #1920
Date : 03.27.20
Drawn By : AK
Checked By : MK

Sheet
MO.1

RUSKIN MODEL MDRS25 OR EQUIVALENT MANUAL VOLUME DAMPER WITH LOCKING QUADRANT HANDLE, TYPICAL

G.C. TO HIRE VENTILATION CLEANING CONTRACTOR CERTIFIED BY NATIONAL AIR DUCT CLEANERS ASSOCIATION (NADCA) TO CLEAN ALL EXISTING DUCTWORK THAT IS TO REMAIN.

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.



FIELD VERIFY EXISTING AIR DEVICE NECK SIZE PRIOR TO ORDERING REPLACEMENT, TYPICAL

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

NEW AIR CURTAIN, AD#H# MOUNTED IN CEILING GRID, CENTERED ON THE DOOR, AT 12' OFF THE EXTERIOR WALL. MECHANICAL CONTRACTOR SHALL ADJUST AIR DEFLECTORS TOWARD BOTTOM OF TORMAX DOOR OPENING.

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.

AIR CURTAIN REMOTE WALL SWITCHES BY MECHANICAL REFER TO AIR DOOR SCHEDULE AND AIR CURTAIN WIRING DIAGRAM FOR FURTHER INFORMATION. COORDINATE EXACT LOCATION FOR SWITCHES WITH KITCHEN EQUIPMENT AND PLANS.

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 M.H.1 FOR CAPTURE-JET FANS DUCTING REQUIREMENTS.
- HARDPIPE SHALL BE USED FOR ALL TAKE-OFFS EXCEPT WHERE ALLOWED BY DETAIL I/M.3. 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 AIRFLOWS 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.

TOTAL AIR BALANCE SCHEDULE								
EQUIPMENT MARK	ACH# (NEW)	AC#2 (NEW)	AC#3 (NEW)	AC#5 (NEW)	EF#1 (NEW)	EF#2 (NEW)	EF#3 (EXIST)	TOTAL
SERVES	KITCHEN	SIDE DINING	MAIN DINING	PLAY AREA	HOOD#1L HOOD#1R	HOOD#2 HOOD#3	REST-ROOMS	
SUPPLY AIR CFM	8,000	2,830	5,000	1,800				+17,630
RETURN AIR CFM	6,300	2,050	3,545	1,500				+13,395
OUTSIDE AIR CFM	1,700	780	1,455	300				+4,235
EXHAUST CFM					1,912	1,091	400	-3,403
PRESSURIZATION								+832
REMARKS	ADJUST AND VERIFY BALANCE OF ALL HVAC EQUIPMENT IS AS SHOWN IN ORDER TO MAINTAIN BUILDING AIR BALANCE.							

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 I/M.3. 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.
- CJ#4 MOUNTED INSIDE CABINETS SERVING SCJ PLENUM. SEE DETAIL 2/M2.1.
- 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. HOLD DUCT AS HIGH AS POSSIBLE DUE TO LIMITED CLEARANCES.
- 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.
- INSTALL NEW AC#1 ONTO EXISTING ROOF CURB. RE-CONNECT EXISTING GAS AND CONDENSATE TO NEW ROOFTOP UNIT. CONNECTION TO NEW ANNUNCIATOR TEST/RESET STATION AND TSTAT/REMOTE SENSORS.
- HALT MBD DAMPER AT HOOD COLLAR BY MECHANICAL CONTRACTOR. REFER TO SHEET M2.1 AND M.H.1 FOR FURTHER INFORMATION.
- MECHANICAL CONTRACTOR TO ADJUST PATTERN DEFLECTORS TO THROW STRAIGHT DOWN.
- GREASE DUCT UP THRU ROOF FROM FULL SIZE OF MBD COLLAR. OFFSETS THRU ROOF NOT TO BE GREATER THAN 45 DEGREES. SEE SHEET M1.2 FOR CONTINUATION.
- TRANSITION GREASE DUCT FROM FULL SIZE OF MBD COLLAR TO 6X6. ROUTE 6X6 GREASE DUCT UP THRU ROOF. OFFSETS THRU ROOF NOT TO BE GREATER THAN 45 DEGREES. SEE SHEET M1.2 FOR CONTINUATION.
- REPLACE EXISTING SMOKE DETECTOR TEST/RESET STATION FOR ALL NEW A/C UNITS. CONTACT SUNCOAST ENVIRONMENTAL CONTROLS AT 1-877-544-6679 TO PURCHASE A NEW SMOKE DETECTOR TEST/RESET STATIONS FOR EACH NEW RTU.
- MOUNT REMOTE TEMP SENSOR FOR KITCHEN RTU ON WALL AT 5'-8" AFF. COORDINATE FINAL MOUNTING LOCATION IN FIELD WITH KITCHEN EQUIPMENT, SHELVING, AND ELECTRICAL. ROUTE WIRING TO TSTAT IN TEMP CONTROL CABINET. MOUNT NEW LENNOX HUMIDITY SENSOR DIRECTLY ABOVE REMOTE TEMP SENSOR AND ROUTE WIRING TO UNIT ON ROOF.
- MOUNT NEW REMOTE TEMP SENSOR AND NEW LENNOX HUMIDITY SENSOR FOR ROOFTOP UNIT IN THE SAME LOCATION AS DEMOLISHED SENSORS (OR ABOVE WAINSCOTTING IF APPLICABLE). ROUTE WIRING FOR NEW REMOTE TEMP SENSOR TO NEW TSTAT IN TEMP CONTROL CABINET. ROUTE WIRING FOR NEW LENNOX HUMIDITY SENSOR TO UNIT ON ROOF.
- ROUTE DUCT THRU FRAMED OPENING ABOVE CEILING. COORDINATE WITH ARCH AND STRUCTURAL FOR EXACT LOCATION.
- EXTEND NEW 12" DUCT FROM POINT OF CONNECTION TO NEW SUPPLY/RETURN GRILLES.
- EXTEND NEW 14" DUCT AND CONNECT TO NEW RETURN AIR PLENUM.
- ANSUL UTILITY CABINET. LOCATE TOP OF CABINET 0'-2" BELOW CEILING. COORDINATE FINAL MOUNTING LOCATION WITH KITCHEN EQUIPMENT.
- CONNECT NEW DUCT RUN-OUT TO EXISTING SPIN-IN START COLLAR. TRANSITION DUCT SIZE AS NECESSARY TO MAKE CONNECTION TO EXISTING COLLAR.
- MOUNT ROOM TSTAT FOR DUCT HEATER AT 4'-0" AFF.
- MOUNT AIR HANDLER ON OVER-HEAD WALL ABOVE CASSED OPENING. MOUNT UNIT AT 12" ABOVE CASSED OPENING. ROUTE REFRIGERANT PIPING ABOVE CEILING AND UP THRU ROOF TO CONDENSING UNIT, CU#1. SEE SHEET M1.1 FOR CONDENSING UNIT LOCATION. REFRIGERANT PIPING BELOW ROOF SHALL BE HIDDEN WITHIN WALLS AND CEILINGS.
- ROUTE CONDENSATE FROM AHU#1 TO TERMINATE INTO EXISTING DRAIN LOCATED BEHIND ICE MAKER IN KITCHEN. CONDENSATE PIPING SHALL BE TYPE K COPPER WITH 1/2" ARMAFLEX INSULATION. CONDENSATE MUST SLOPE MIN 1/8" PER FOOT TO TERMINATION POINT. CONTRACTOR SHALL INSTALL A CONDENSATE LIFT PUMP IN ORDER TO ROUTE CONDENSATE TO ICE MAKER DRAIN IN KITCHEN. CONTACT SCOTT GEORGE OF TOM BARRAW AT 1-404-351-1010 TO ORDER CONDENSATE PUMP.

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
	KEY NOTE REFERENCE
	EXISTING START COLLAR
	EXISTING RUNOUT TO REMAIN
	EXISTING RETURN/EXHAUST (TYP.)
	EXISTING SUPPLY DIFFUSER (TYP.)
	NEW RETURN/EXHAUST, U.N.O. (TYP.)
	NEW SUPPLY DIFFUSER, U.N.O. (TYP.)
	NEW DUCT (TYP.)
	SMOKE DETECTOR TEST/RESET STATION

5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:
 2 Mark Date By
 05.14.2020 PERMIT ISSUE
 3 Mark Date By
 06.05.2020 BID ISSUE
 4 Mark Date By
 07.17.2020 CONSTRUCTION ISSUE
 5 Mark Date By
 07.31.2020 CONSTRUCTION CLARIFICATION

STATE OF OHIO
 MARK T. KURZYNSKI
 55088
 1-31-20

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STORE #01920
 MONTROSE FSU

47 FLIGHT MEMORIAL
 PKWY, FAIRLAWN OH,
 44333

SHEET TITLE
 MECHANICAL
 FLOOR PLAN

VERSION: S06-C
 ISSUE DATE: 04.10.20

Job No. : 20033.CO.R
 Store : #1920
 Date : 03.27.20
 Drawn By : AK
 Checked By : MK

Sheet
MI.1



Chick-Fil-A

5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By
2	05.14.2020	
PERMIT ISSUE		
3	06.05.2020	
BID ISSUE		
4	07.17.2020	
CONSTRUCTION ISSUE		
5	07.31.2020	
CONSTRUCTION CLARIFICATION		



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MONTROSE FSU

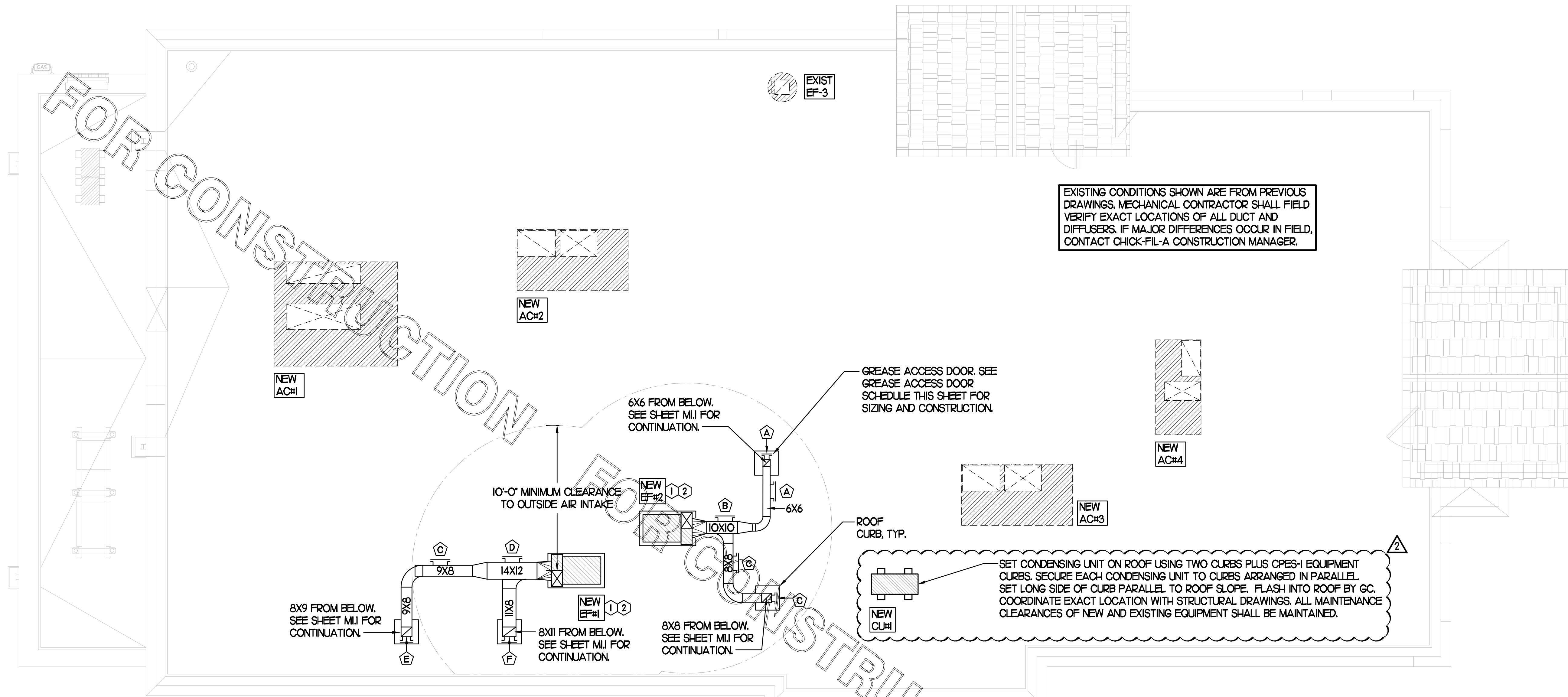
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SHEET TITLE
**MECHANICAL
ROOF PLAN**

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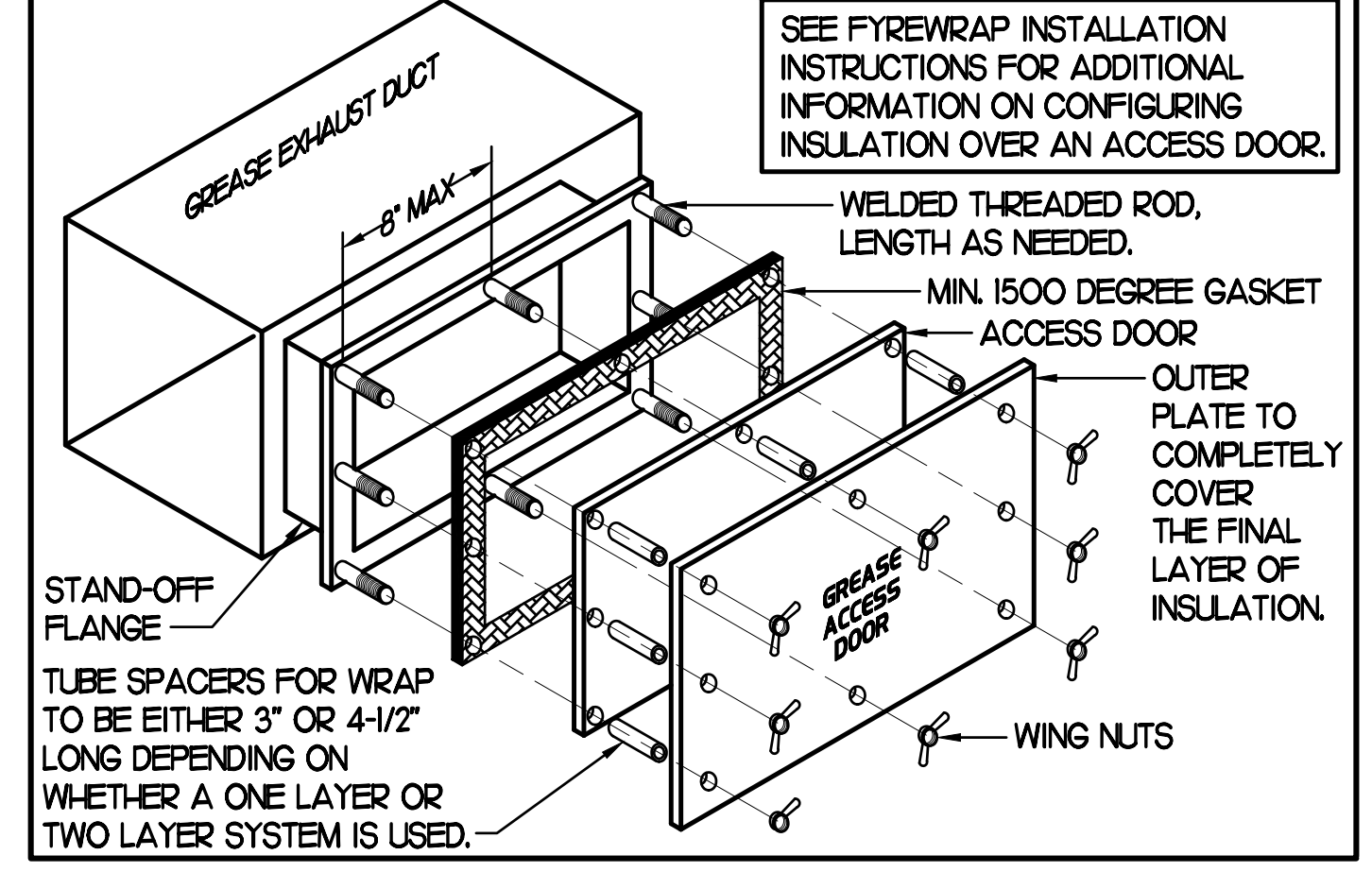
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GREASE ACCESS DOOR SCHEDULE

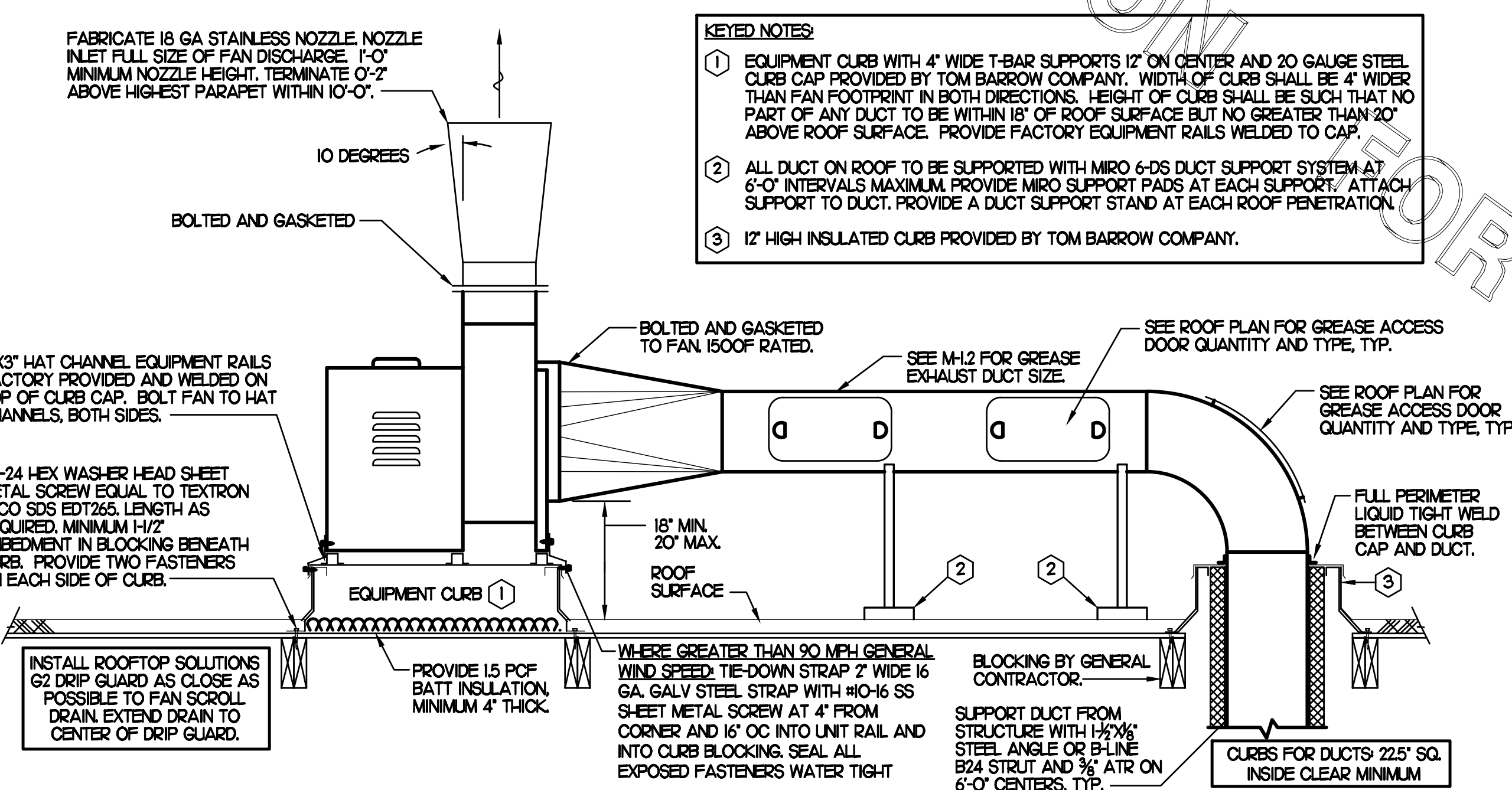
MARK	OPENING SIZE	DOOR SIZE	REMARKS
A	4H X 14W	6H X 16W	I
B	7.5H X 14W	9.5H X 16W	I
C	5.5H X 14W	7.5H X 16W	I
D	9.5H X 14W	11.5H X 16W	I
E	6.5H X 14W	8.5H X 16W	I
F	8.5H X 14W	10.5H X 16W	I

1. 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.



1 MECHANICAL ROOF PLAN

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



2 KITCHEN HOOD EXHAUST FAN - UTILITY SET FAN

NO SCALE

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.

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.



Chick-fil-A

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SHEET TITLE
HVAC DETAILS
& SCHEDULES

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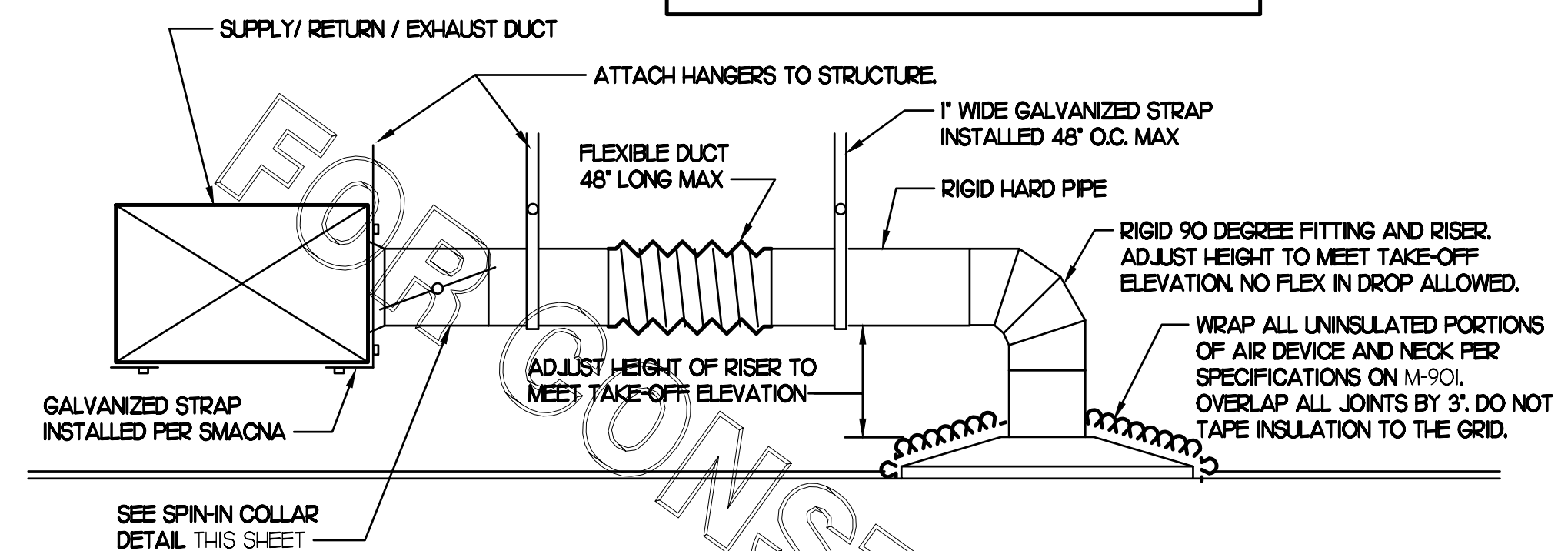
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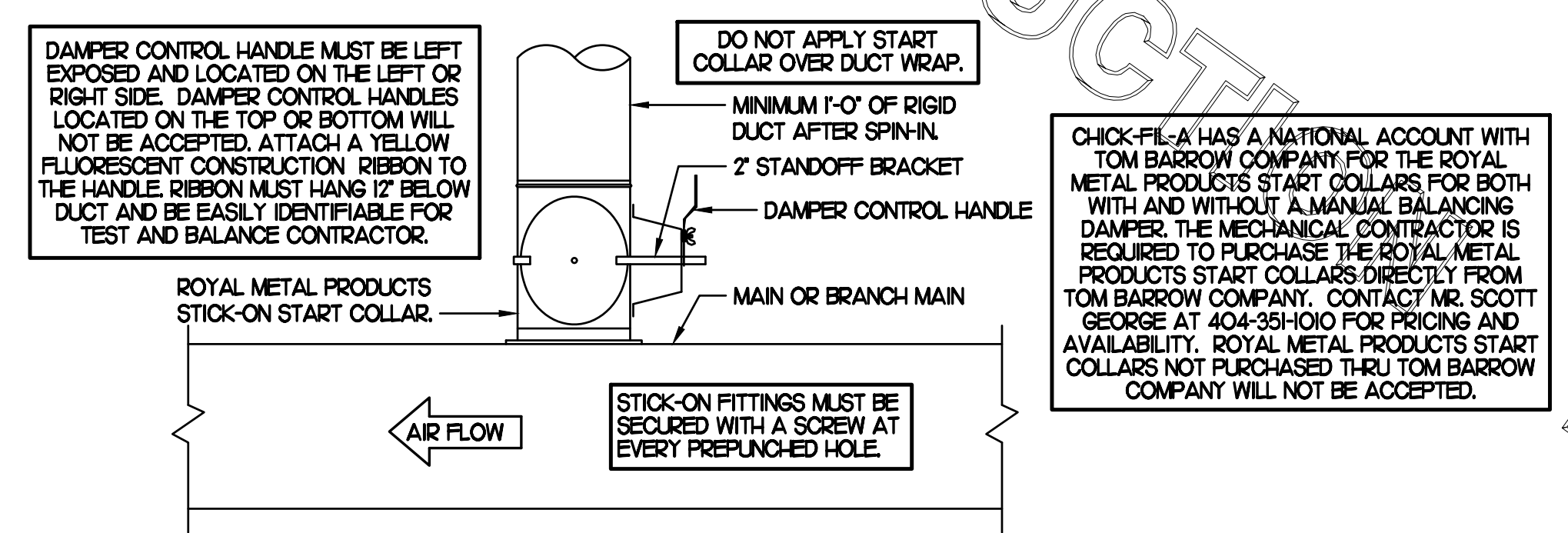
M3.I

ALL AIR CONDITIONING FLEX DUCTWORK SHALL REQUIRE 6" SOLID METAL SADDLE AND 1" SOLID METAL STRAP TO SECURE DUCTWORK TO FRAMING.



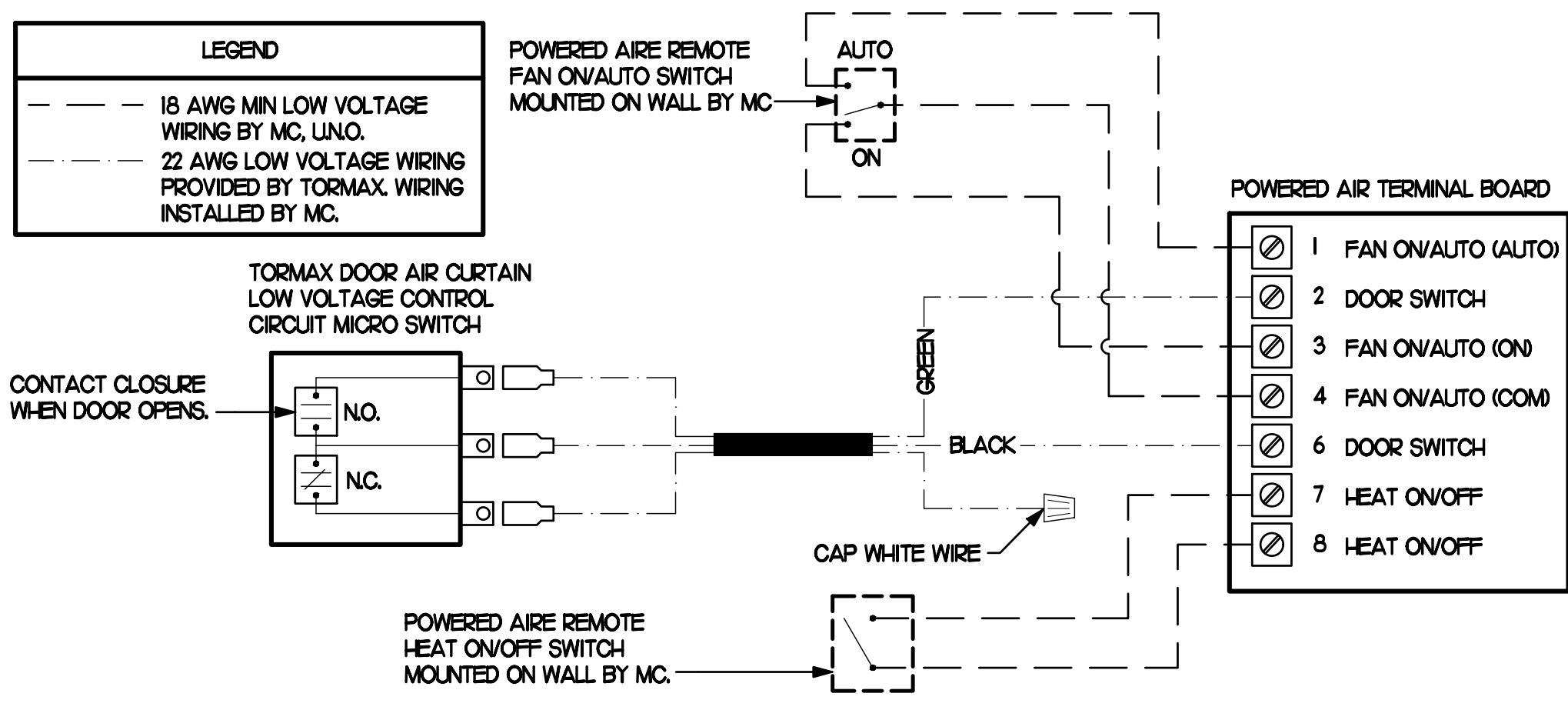
1 SAG/RAG/GRILLE TAKE-OFF

NO SCALE



2 START COLLAR

NO SCALE



3 AIR CURTAIN WIRING DIAGRAM

NO SCALE

AIR DOOR SCHEDULE

MARK	CFM	VELOCITY	HEATING CAP	HP	AREA SERVED	MODEL	MANUFACTURER	REMARKS
AD#1 (NEW)	1,543	2,338	10 KW	3/4	DRIVE THRU	CHA-148B	POWERED-AIRE	2-4
AD#2 (NEW)	3,867	4,220	NA	3/4	REAR DOOR	RBT-148	POWERED-AIRE	1
AD#3 (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: 1. FACTORY PROVIDED MAGNETIC DOOR CONTACT WITH FACTORY INSTALLED LOW VOLTAGE CONTROLS LOCATED IN AIR DOOR CABINET.
2. FACTORY PROVIDED, WIRED, AND UNIT MOUNTED SPEED CONTROLLER LOCATED ABOVE CEILING.
3. FACTORY WIRED DISCONNECT.
4. FACTORY PROVIDED, FIELD INSTALLED REMOTE WALL SWITCHES FOR HEATING ON/OFF AND FAN ON/AUTO SWITCH. SEE AIR CURTAIN WIRING DIAGRAM DETAIL THIS SHEET.

EXHAUST FAN SCHEDULE

MARK	CFM	ESP	RPM	TP SPEED (FPM)	HP (WATTS)	AREA SERVED	MODEL	MANUFACTURER	REMARKS
EF#1 (NEW)	1,912	0.75	1,331	5,226	3/4	HOOD#1 & HOOD#R	150 OPS	LOREN COOK	H2
EF#2 (NEW)	1,091	0.75	1,224	4,325	1/2	HOOD#2 & HOOD#3	135 OPS	LOREN COOK	H2
EF#3 (EXISTING)	400	-	-	-	-	RESTROOMS	-	EXISTING	-

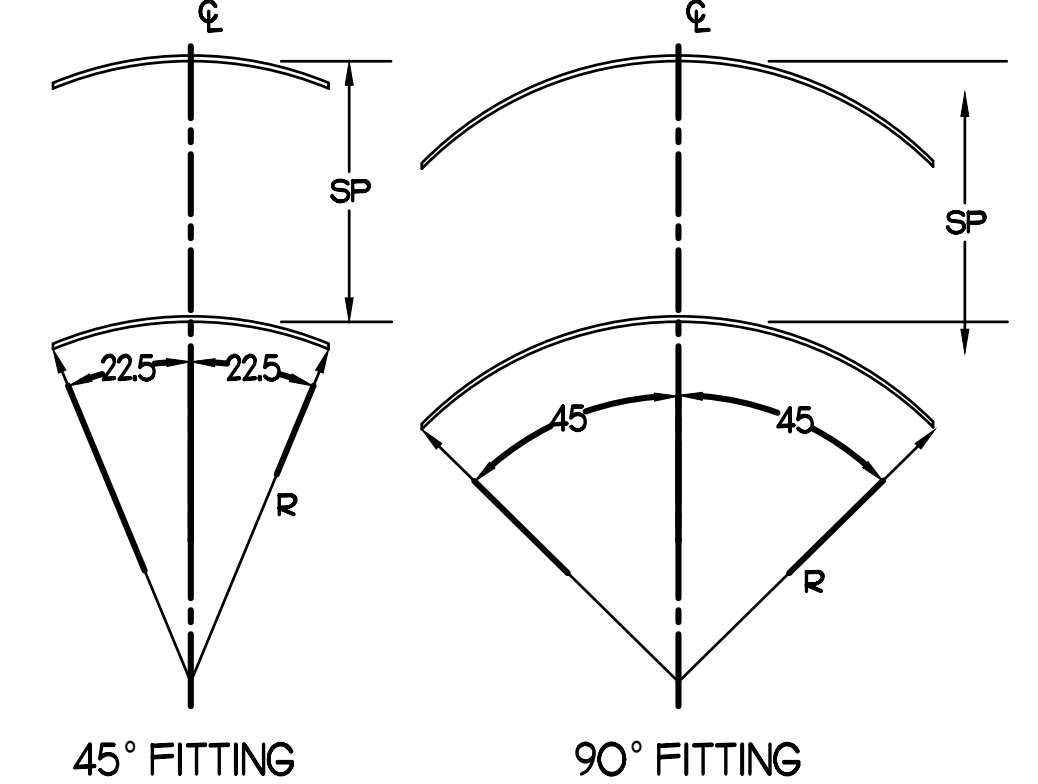
NOTES: GREASE EXHAUST FAN RPM BASED ON 80 DEGREE F AIR AT 1000 FEET ABOVE SEA LEVEL.
GREASE EXHAUST FANS TO BE UL 762 LISTED.
CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR FAN/CURB PACKAGE. MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE FAN/CURB PACKAGE DIRECTLY FROM TOM BARROW COMPANY. 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: 1. PROVIDE AND INSTALL ROOFTOP SOLUTIONS G2 DRIP GUARD. MC TO CONTACT ROOFTOP SOLUTIONS AT 800-913-7034
2. PROVIDE FACTORY INSTALLED, PRE-WIRED, NEMA 3 NON-FUSED DISCONNECT. COORDINATE WITH E.C.
3. INTEGRAL THERMAL OVERLOAD WITH AUTOMATIC RESET.
4. UPBLAST, ARRANGEMENT 10, CCW ROTATION. SEE PLANS TO CONFIRM CONFIGURATION.
5. PROVIDE FACTORY STEEL FAN WHEEL.
6. PROVIDE FACTORY STEEL INLET FLANGE AND INLET COMPANION FLANGE.
7. PROVIDE FACTORY WEATHER HOUSING W/ HINGED ACCESS DOOR.
8. PROVIDE FACTORY DRAIN CONNECTION.
9. PROVIDE FACTORY BOLTED ACCESS DOOR ON SCROLL.
10. PROVIDE FACTORY STEEL OUTLET COMPANION FLANGE.
11. UTILITY SET FAN CURB AND ASSOCIATED EXHAUST DUCT CURB PROVIDED BY TOM BARROW COMPANY.
12. PROVIDE FACTORY BELT DRIVE WITH ADJUSTABLE MOTOR SHEAVE AND SPARE BELT.

TURNING VANE SCHEDULE

R	SP	GA
2"	15"	24

1) NO TRAILING EDGE
2) SINGLE THICKNESS CONSTRUCTION



4 TURNING VANES

NO SCALE

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	1,8
C	PRICE MODEL SMCD STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	ENTRYS	14X14	20X20	BEVELLED	1,3,5,7
E	PRICE MODEL 22 DOUBLE DEFLECTION ALUMINUM SIDEWALL SUPPLY GRILLE. FRONT BLADE PARALLEL TO LONG SIDE.	PLAY AREA	18X12	20X14	SURFACE	1
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	1,8
H	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	OFFICE	12	24X24	LAY-IN	1,6,8
J	PRICE MODEL SMCD STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	RESTROOMS	10X10	16X16	BEVELLED	1,2,3,5,7
K	PRICE MODEL APDC ALUMINUM PERFORATED FACE RETURN AIR GRILLE.	RESTROOMS ENTRYS	14X14	17X17	SURFACE	1,4,5,7
L	PRICE MODEL 21 ALUMINUM SIDEWALL RETURN GRILLE. FRONT BLADE PARALLEL TO LONG SIDE.	PLAY AREA	16X16	18X18	SURFACE	1

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: 1. STANDARD OFF WHITE FINISH.
2. PROVIDE MODEL VCS3 NECK DAMPER.
3. SEE DRAWING M11 FOR THRUW.
4. PROVIDE MODEL VCR7 NECK DAMPER ON GRILLES IN RESTROOMS.
5. PROVIDE BACKPAN MC TO SEAL JOINTS WITH MASTIC AND INSULATE EXTERNALLY.
6. PROVIDE VCR7 NECK DAMPER, ADJUSTABLE THRU DIFFUSER FACE.
7. FIELD INSULATE BACKPAN AS SHOWN ON DETAIL 1M3-1.
8. FACTORY INSULATED R-6 BACKPAN.

ELECTRIC DUCT HEATER SCHEDULE

MARK	KW	DUCT SIZE (IN) DIAMETER	CFM	TYPE	MANUFACTURER
DH#1	6.0 * 208/3	12	400	FLANGED ROUND COLLAR	THERMOLEC

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

REMARKS: 1. PROVIDE FACTORY AIR FLOW SENSOR.
2. PROVIDE FACTORY INTEGRAL DOOR DISCONNECT WITH INTERLOCK.
3. PROVIDE FACTORY ROOM THERMOSTAT.
4. PROVIDE FACTORY S.C.R. CONTROLLER.
5. CONFIRM ELECTRICAL CHARACTERISTICS PRIOR TO ORDERING EQUIPMENT.

DUCTLESS SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE

MARK	COOLING CAPACITY (MBH)		HEATING CAPACITY (MBH)		EFFICIENCIES		FAN SECTION (CFM)		ELECTRICAL DATA		R-410A MODEL	MFG
	MIN	MAX	MIN	MAX	SEER	HSPF	SUPPLY	RATED CURRENT	VOLTAGE			
AHU#1/CU#1 (NEW)	6.0	33.6	15.0	34.6	18.0	9.0	412-736	20 AMPS	208V/1/60	KW364-02B8D	GREE	

NOTES: MECHANICAL CONTRACTOR SHALL PURCHASE THE SPLIT SYSTEM HEAT PUMP DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-0100 FOR PRICING AND AVAILABILITY.

REMARKS: 1. ELECTRICIAN TO PROVIDE NON-FUSED DISCONNECT.
2. MECHANICAL TO PROVIDE AND INSTALL REFRIGERANT PIPING AS PER MFR RECOMMENDATIONS.
3. PROVIDE ENGRAVED PLASTIC LABEL AT AHU AND CU WITH HIGH WHITE LETTERS ON A BLACK BACKGROUND RIVETED TO UNIT CABINET.
4. PROVIDE WITH ADEQUATE REFRIGERANT LINE SET. FIELD VERIFY DISTANCE FROM WHERE CONDENSER IS TO BE SET TO AIR HANDLER LOCATION PRIOR TO ORDERING.
5. PROVIDE WITH FACTORY WIRED WALL CONTROLLER (MODEL X376).
6. PROVIDE WITH CONDENSATE PUMP (LITTLE GIANT MODEL EC-K-DV). LIFT PUMP TO BE PROVIDED BY TOM BARROW COMPANY.

GAS FIRED ROOFTOP UNIT SCHEDULE

MARK	COOLING CAPACITY (MBH)		HEATING CAPACITY (MBH)		FAN SECTION (CFM)			MODEL	MANUFACTURER	REMARKS		
	TOTAL	SENS	INPUT	OUTPUT	STAGES	SUPPLY	O.A.				HP	ESP
ACH#1 (NEW)	279.6	198.5	480.0	384.0	2	6,000	1,700	7.5	1.0	LGH300S4B	LENNOX	1,2,3,4,6,7,8,9,10,11,12,15
ACH#2 (NEW)	100.3	70.2	240.0	192.0	2	2,830	780	2.0	1.0	LGH4024B	LENNOX	1,2,3,5,6,7,8,9,10,11,12,13,15
ACH#3 (NEW)	154.8	116.1	240.0	192.0	2	5,000	1,455	5.0	1.0	LGH4504B	LENNOX	1,2,3,5,6,7,8,9,10,11,12,13,15
ACH#4 (NEW)	61.7	43.8	150.0	120.0	2	1,800	300	1.0	0.85	LGH0604E	LENNOX	1,2,3,5,6,7,8,9,10,11,12,14,16

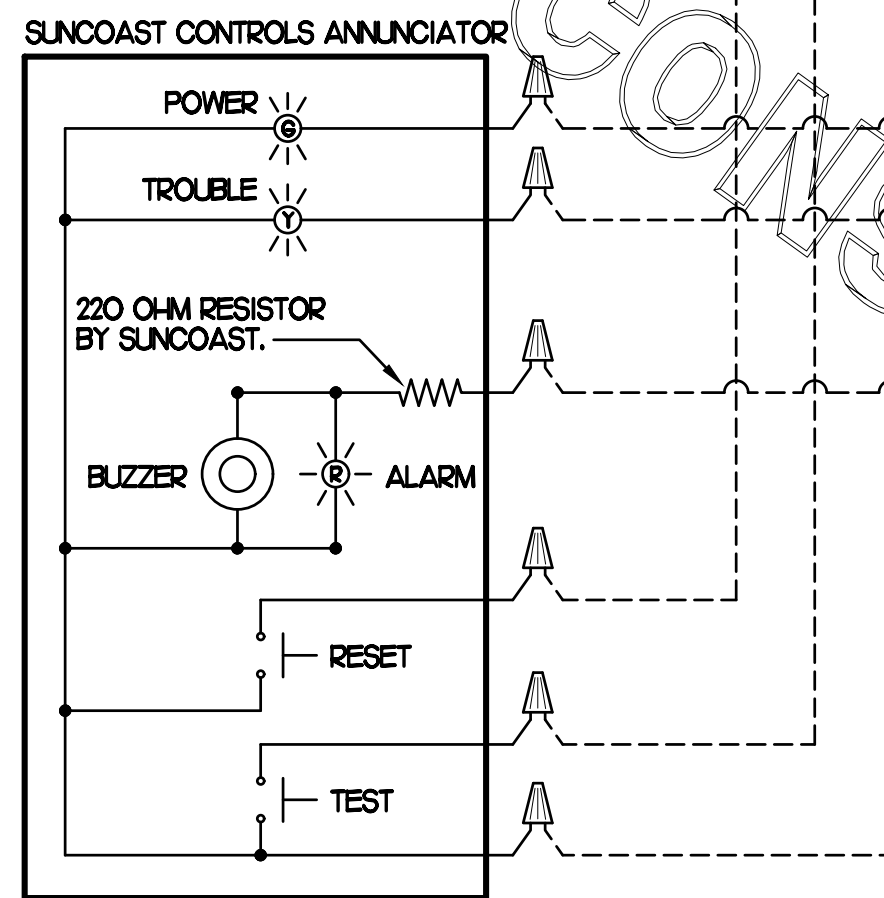
NOTES: COOLING CAPACITIES ARE GROSS, BASED ON INDOOR EDB: 80F, INDOOR EWB: 67F, OUTDOOR EDB: 95F.
FOR PROPER BUILDING AIR BALANCE, VERIFY AMOUNT OF OUTSIDE AIR PROVIDED BY ALL EXISTING UNITS. ADJUST AS PER SCHEDULE IF NECESSARY.
VERIFY MIN. IO DISTANCE OF O.A. INTAKE OPENINGS OF A/C UNITS FROM ANY EXISTING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

REMARKS: 1. PROVIDE DIFFERENTIAL ENTHALPY ECONOMIZER WITH POWER EXHAUST. ECONOMIZER TO BE LOW LEAKAGE/HIGH PERFORMANCE.
2. SEE DETAIL 2/M4-1 FOR SETTING OF PRODIGY M3 BOARD CONTROL PARAMETERS BY MC.
3. PROVIDE WITH FACTORY DRAIN PAN OVERFLOW SWITCH.
4. PROVIDE FACTORY INSTALLED AND UNIT POWERED 15V GFI SERVICE OUTLET.
5. PROVIDE FACTORY INSTALLED 15V GFI SERVICE OUTLET.
6. PROVIDE FACTORY INSTALLED RETURN SIDE SMOKE DETECTOR.
7. PROVIDE FACTORY INSTALLED NON-FUSED DISCONNECT.
8. PROVIDE 2" MERV 8 THRU AWAY FILTERS.
9. PROVIDE HINGED PANELS FOR FILTER ACCESS, FAN MOTOR ACCESS, COMPRESSOR ACCESS AND CONTROL COMPARTMENT ACCESS.
10. ADJUST GAS MANIFOLD PRESSURE AT LOCATIONS WHERE ELEVATION EXCEEDS 2000' ABOVE SEA LEVEL, AS RECOMMENDED BY MANUFACTURER.
11. PROVIDE FACTORY COIL HAIL GUARD, FIELD INSTALLED.
12. PROVIDE HUMIDITROL OPTION WITH FACTORY WALL MOUNTED HUMIDITY SENSOR (STATES OF CA AND AZ EXCLUDED).
13. PROVIDE WITH FACTORY RETURN AIR ADAPTER PLATE.
14. PROVIDE WITH ADAPTER CURB. UNIT BEING REPLACED WITH LENNOX MODEL LG6060H. ADAPTER CURB IS PROVIDED BY LENNOX AS PART OF THE TOTAL EQUIPMENT PACKAGE.
15. PROVIDE FACTORY INSTALLED BLOWER BELT AUTO-TENSIONER.
16. PROVIDE WITH MSAV BLOWER.

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

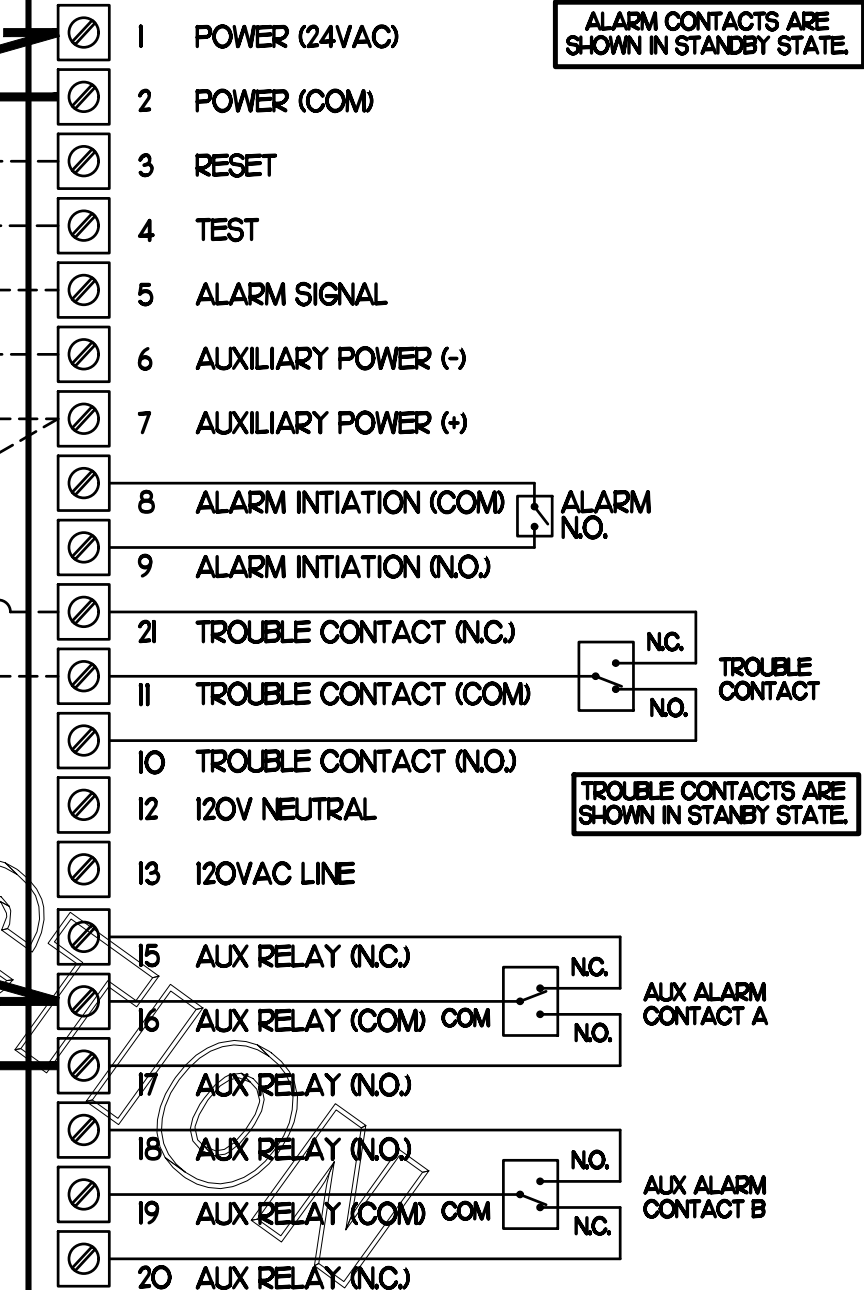
LEGEND
 - - - 18 AWG MIN WIRING BY MECH CONTRACTOR
 _____ FACTORY ANNUNCIATOR DETECTOR WIRING
 - - - FACTORY LENNOX WIRING

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



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.

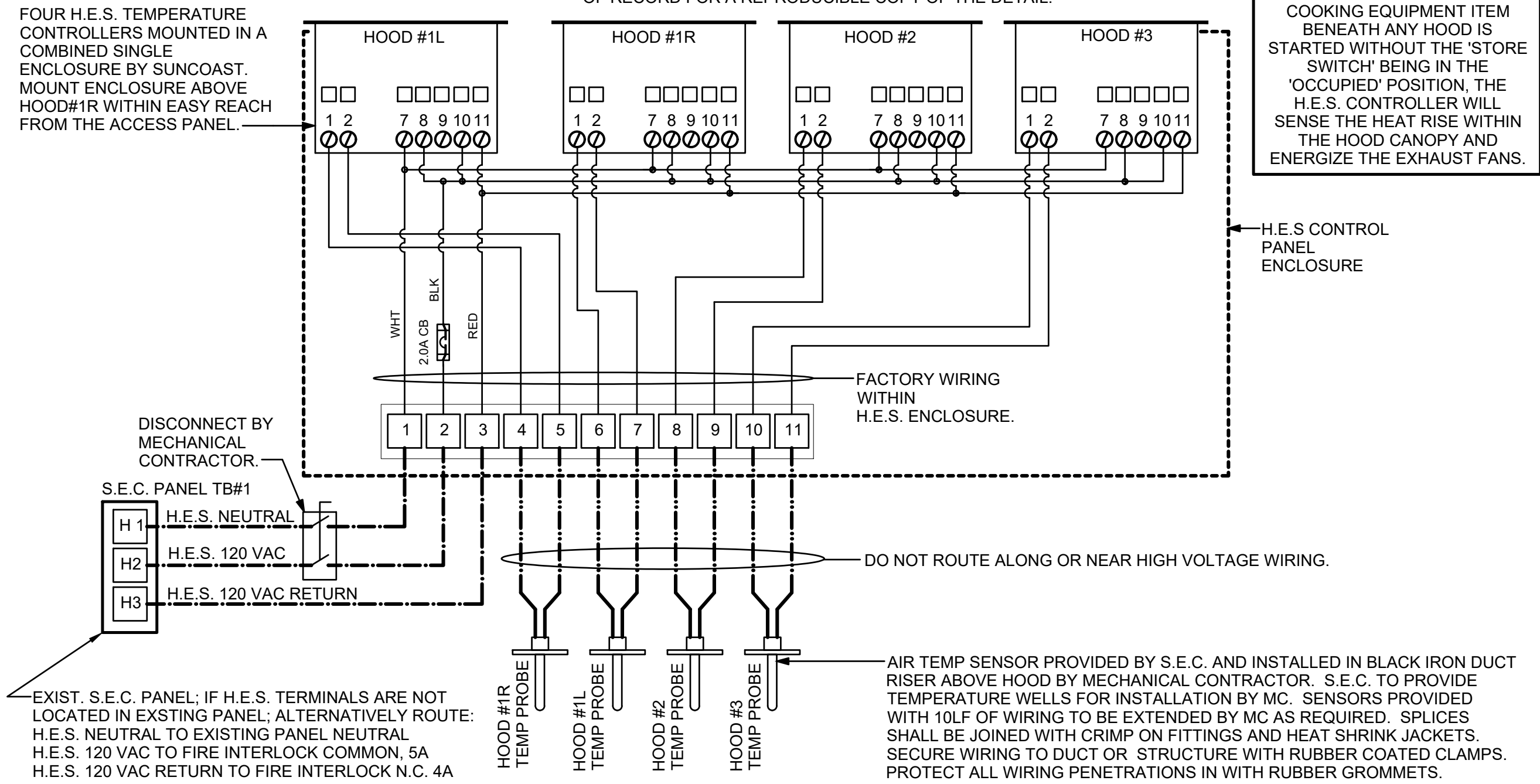
LENNOX FACTORY WIRING
 LENNOX FACTORY INSTALLED DUCT DETECTOR SYSTEM SENSOR MN LD4120



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
 1. MECHANICAL CONTRACTOR TO PURCHASE THE H.E.S. CONTROL PANEL AND COMPONENTS FROM SUNCOAST ENVIRONMENTAL CONTROLS. TELEPHONE 877-544-6679.
 2. CONTROLS COMPONENTS TO BE FACTORY MOUNTED IN LABELED NEMA-1 ENCLOSURES.
 3. 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.



DISCONNECT BY MECHANICAL CONTRACTOR.
 S.E.C. PANEL TB#1
 H1 H.E.S. NEUTRAL
 H2 H.E.S. 120 VAC
 H3 H.E.S. 120 VAC RETURN

DO NOT ROUTE ALONG OR NEAR HIGH VOLTAGE WIRING.
 AIR TEMP SENSOR PROVIDED BY S.E.C. AND INSTALLED IN BLACK IRON DUCT RISER ABOVE HOOD BY MECHANICAL CONTRACTOR. S.E.C. TO PROVIDE TEMPERATURE WELLS FOR INSTALLATION BY MC. SENSORS PROVIDED WITH 10LF OF WIRING TO BE EXTENDED BY MC AS REQUIRED. SPLICES SHALL BE JOINED WITH CRIMP ON FITTINGS AND HEAT SHRINK JACKETS. SECURE WIRING TO DUCT OR STRUCTURE WITH RUBBER COATED CLAMPS. PROTECT ALL WIRING PENETRATIONS IN WITH RUBBER GROMMETS.

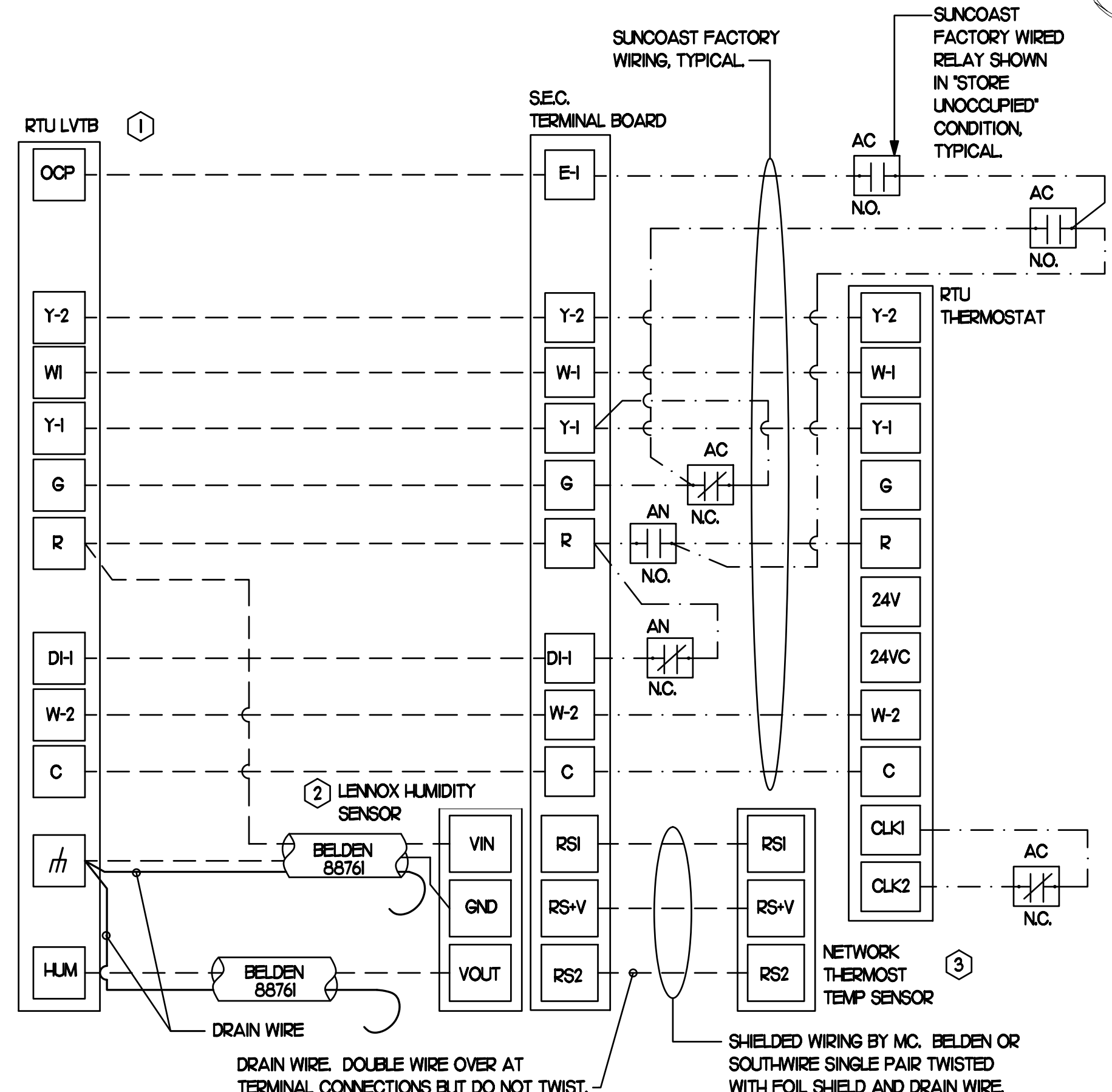
1 SMOKE DETECTOR AND ANNUNCIATOR WIRING DIAGRAM - LENNOX

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.
 - HUMIDITROL UNITS ONLY: WIRING TO HUMIDITY SENSOR TO BE MADE WITH TWO SEPARATE RUNS OF SHIELDED TWISTED PAIR. TERMINATE SHIELD WIRES AT TB-1, LEAVE OPEN AT SENSOR.
 - NETWORK TSTAT REMOTE TEMP SENSOR PROVIDED BY SUNCOAST AND INSTALLED BY MC. FIELD CALIBRATE EACH SENSOR.

LEGEND
 S.E.C. SUNCOAST ENVIRONMENTAL CONTROLS (SUPPLIER OF TEMP/FAN CONTROL PANEL) LOCATED IN KITCHEN
 ① KEY NOTE REFERENCE
 MC MECHANICAL CONTRACTOR
 (AC) SUNCOAST RELAY FACTORY INSTALLED AND WIRED IN CFA-500 PANEL, ENERGIZED BY PUTTING STORE SWITCH IN 'STORE OCCUPIED' POSITION.
 (AN) SUNCOAST RELAY FACTORY INSTALLED AND WIRED IN CFA-500 PANEL, DENERGIZED WHEN ANSL FIRE SUPPRESSION SYSTEM IS ACTIVATED, AS NOTED.
 - - - 18 AWG MIN LOW VOLTAGE WIRING BY MC, U.N.O. USE BELDEN OR SOUTH-WIRE SINGLE PAIR TWISTED WITH FOIL SHIELD AND DRAIN WIRE FOR TEMPERATURE SENSORS (NOT HUMIDITY SENSORS).
 _____ LOW VOLTAGE WIRING BY S.E.C.
 _____ LINE VOLTAGE BY ELECTRICIAN OR S.E.C.



2 ROOFTOP UNIT CONTROL WIRING - LENNOX

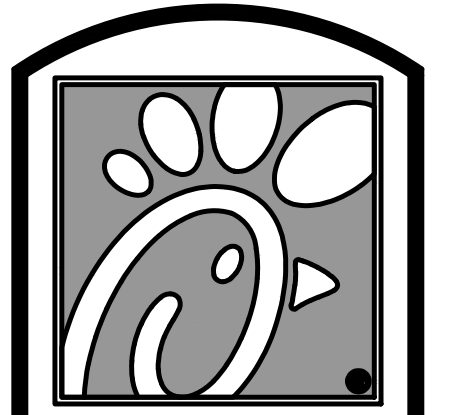
NONE

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

NONE

LENNOX PRODIGY CONTROLLER SETTINGS
 FOR ALL RTUS EXCEPT AT ACH1, CHANGE PRODIGY-M3 BOARD CONTROL PARAMETER #65 TO ZERO (#58 ON LCH UNITS). THIS WILL CAUSE THE O.A. DAMPER TO OPEN ON 'OCCUPIED' START. AT ACH1 (LCH TYPED) LEAVE THE SETTING AT THE DEFAULT VALUE SO THE O.A. DAMPER WILL REMAIN CLOSED FOR THE FIRST 60 MINUTES AFTER 'OCCUPIED' START. AT ACH1 (LCH TYPED) CHANGE THE VALUE TO 5400 SO THE O.A. DAMPER WILL REMAIN CLOSED FOR THE FIRST 90 MINUTES AFTER 'OCCUPIED' START.
 2. AT HUMIDITROL RTUS, SET PRODIGY-M3 BOARD CONTROL PARAMETER #105 FOR DEHUMIDIFICATION OPERATION TO A VALUE OF 7 (60% RH).
 3. AT MSAV UNITS, SET THE MSAV LOW SPEED SETTING TO THE SAME VALUE AS THE HIGH SPEED SETTING AFTER TAB IS COMPLETE.

LENNOX FRESH AIR HEATING SETUP WHEN SPECIFIED
 1. INSTALL FRESH AIR TEMPERING KIT WIRING HARNESS AS RECOMMENDED BY LENNOX.
 2. LOCATE SUPPLY AIR TEMPERATURE SENSOR IN SUPPLY DUCT DOWNSTREAM OF FIRST ELBOW. SECURE WIRING TO DUCT OR STRUCTURE WITH RUBBER COATED CLAMPS. DO NOT RUN WIRING INSIDE DUCT WORK. PROTECT ALL WIRING PENETRATIONS WITH RUBBER GROMMETS.
 3. FOR PRODIGY 2.0 FIRST SET FRESH AIR HEATING ENABLE TO 'YES' THRU THE TAB/DAMPER MENU (LEAVE FRESH AIR COOLING AS 'NO'). NEXT, CHANGE PRODIGY-M3 BOARD CONTROL PARAMETER #156 TO A VALUE OF 66. THIS WILL PREVENT THE SUPPLY AIR TEMPERATURE FROM DROPPING BELOW 66F DEG DURING HEATING MODE WHEN THERMOSTAT IS NOT ACTIVELY CALLING FOR HEAT.
 4. CHANGE PRODIGY-M3 BOARD CONTROL PARAMETER #157 TO A VALUE OF 14. THIS WILL MAKE THE DEADBAND VALUE EQUAL 14F.
 5. CHANGE PRODIGY-M3 BOARD CONTROL PARAMETER #158 TO A VALUE OF 300. THIS WILL MAKE THE CYCLE TIME VALUE EQUAL 5 MINUTES.



5200 Buffington Rd.
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 30349-2998

Revisions:

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 2900 Lebanon Pike, Ste. 201
 Nashville, Tennessee 37214
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 Fax: (615) 255-5207
 Email: mail@kurzynske.com

STORE #01920
 MONTROSE FSU

47 FLIGHT MEMORIAL
 PKWY, FAIRLAWN OH,
 44333

SHEET TITLE
 HVAC
 CONTROLS

VERSION: S06-C
 ISSUE DATE: 04.10.20

Job No. : 20033.CD.R
 Store : #1920
 Date : 03.27.20
 Drawn By : AK
 Checked By : MK

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M4.I

LEGEND			
CF#1	CIRCULATING FAN #1 (TYP.)	B/G	BELOW GRADE
GIH#1	GAS INFRARED HEATER #1 (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.

FOR CONSTRUCTION

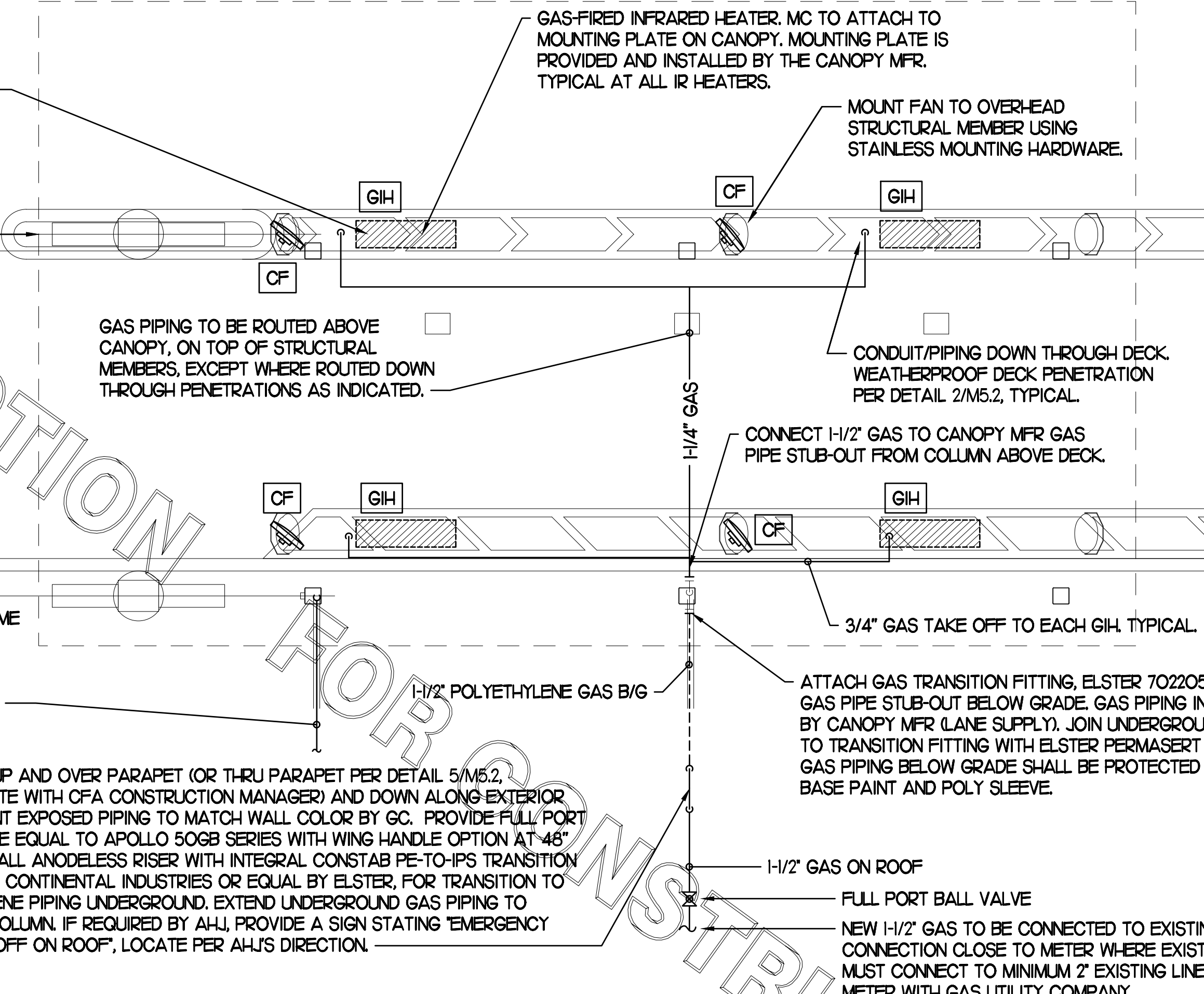
HEAT SHIELD TO SET ON TOP OF IR HEATER ON THE FACTORY HEATER MOUNTING STUDS. SHIELD ORIENTED SO EDGE IS TURNED DOWN. PURCHASE DIRECTLY FROM TOM BARROW COMPANY. CONTACT SCOTT GEORGE AT 404-351-1010.

ORDER CANOPY. SEE ARCHITECTURAL.

ELECTRICAL CONDUIT TO BE ROUTED ABOVE CANOPY BY EC, ON TOP OF STRUCTURAL BEAMS, EXCEPT WHERE ROUTED DOWN THROUGH PENETRATIONS AS INDICATED. CONDUIT SHALL BE SUPPORTED BY PIPE SUPPORTS PROVIDED BY THE MC. SEE DETAIL 1/M5.2.

WIRING FOR HEATERS BY EC ROUTED IN SAME 3" CONDUIT FOR LIGHTING. COORDINATE REQUIRED WIRE GAUGE WITH ELECTRICAL CONTRACTOR. SEE CONTROLS PLAN ON ELECTRICAL SHEETS. TERMINATIONS BY MC.

1/2" GAS UP AND OVER PARAPET (OR THRU PARAPET PER DETAIL 5/M5.2, COORDINATE WITH CFA CONSTRUCTION MANAGER) AND DOWN ALONG EXTERIOR WALL. PAINT EXPOSED PIPING TO MATCH WALL COLOR BY GC. PROVIDE FULL PORT BALL VALVE EQUAL TO APOLLO 50GB SERIES WITH WING HANDLE OPTION AT 48" AFG. INSTALL ANODELESS RISER WITH INTEGRAL CONSTAB PE-TO-IPS TRANSITION FITTING BY CONTINENTAL INDUSTRIES OR EQUAL BY ELSTER, FOR TRANSITION TO POLYETHYLENE PIPING UNDERGROUND. EXTEND UNDERGROUND GAS PIPING TO CANOPY COLUMN. IF REQUIRED BY AHJ, PROVIDE A SIGN STATING "EMERGENCY GAS SHUTOFF ON ROOF". LOCATE PER AHJ'S DIRECTION.



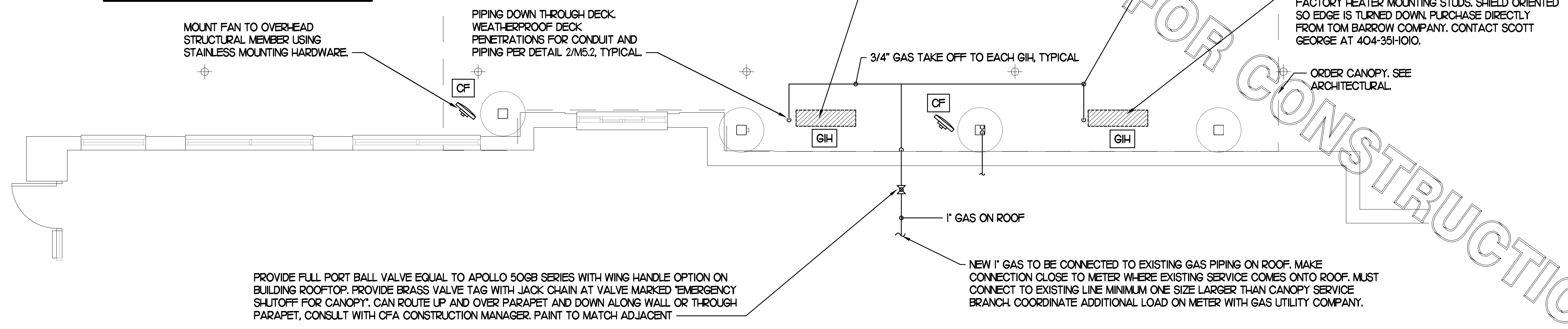
1 HVAC PLAN - DOUBLE LANE ORDER CANOPY
NTS

ELECTRICAL CONDUIT TO BE ROUTED ABOVE CANOPY BY EC, ON TOP OF STRUCTURAL BEAMS, EXCEPT WHERE ROUTED DOWN THROUGH PENETRATIONS AS INDICATED. CONDUIT SHALL BE SUPPORTED BY PIPE SUPPORTS PROVIDED BY THE MC. SEE DETAIL 1/M5.2.

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.

GAS PIPING TO BE ROUTED ABOVE CANOPY, ON TOP OF STRUCTURAL MEMBERS, EXCEPT WHERE ROUTED DOWN THROUGH PENETRATIONS AS INDICATED.

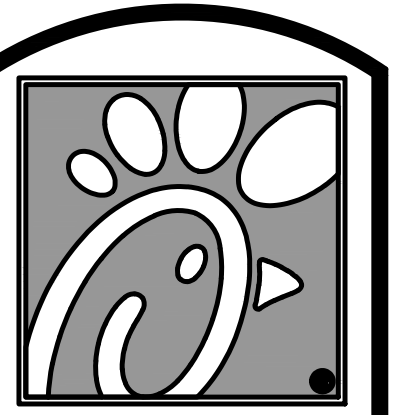
HEAT SHIELD TO SET ON TOP OF IR HEATER ON THE FACTORY HEATER MOUNTING STUDS. SHIELD ORIENTED SO EDGE IS TURNED DOWN. PURCHASE DIRECTLY FROM TOM BARROW COMPANY. CONTACT SCOTT GEORGE AT 404-351-1010.



PROVIDE FULL PORT BALL VALVE EQUAL TO APOLLO 50GB SERIES WITH WING HANDLE OPTION ON BUILDING ROOFTOP. PROVIDE BRASS VALVE TAG WITH JACK CHAIN AT VALVE MARKED "EMERGENCY SHUTOFF FOR CANOPY". CAN ROUTE UP AND OVER PARAPET AND DOWN ALONG WALL OR THROUGH PARAPET, CONSULT WITH CFA CONSTRUCTION MANAGER. PAINT TO MATCH ADJACENT

NEW 1" GAS TO BE CONNECTED TO EXISTING GAS PIPING ON ROOF. MAKE CONNECTION CLOSE TO METER WHERE EXISTING SERVICE COMES ONTO ROOF. MUST CONNECT TO EXISTING LINE MINIMUM ONE SIZE LARGER THAN CANOPY SERVICE BRANCH. COORDINATE ADDITIONAL LOAD ON METER WITH GAS UTILITY COMPANY.

2 HVAC PLAN - MEAL DELIVERY CANOPY - UTILITIES AT EXISTING RESTAURANT
NTS



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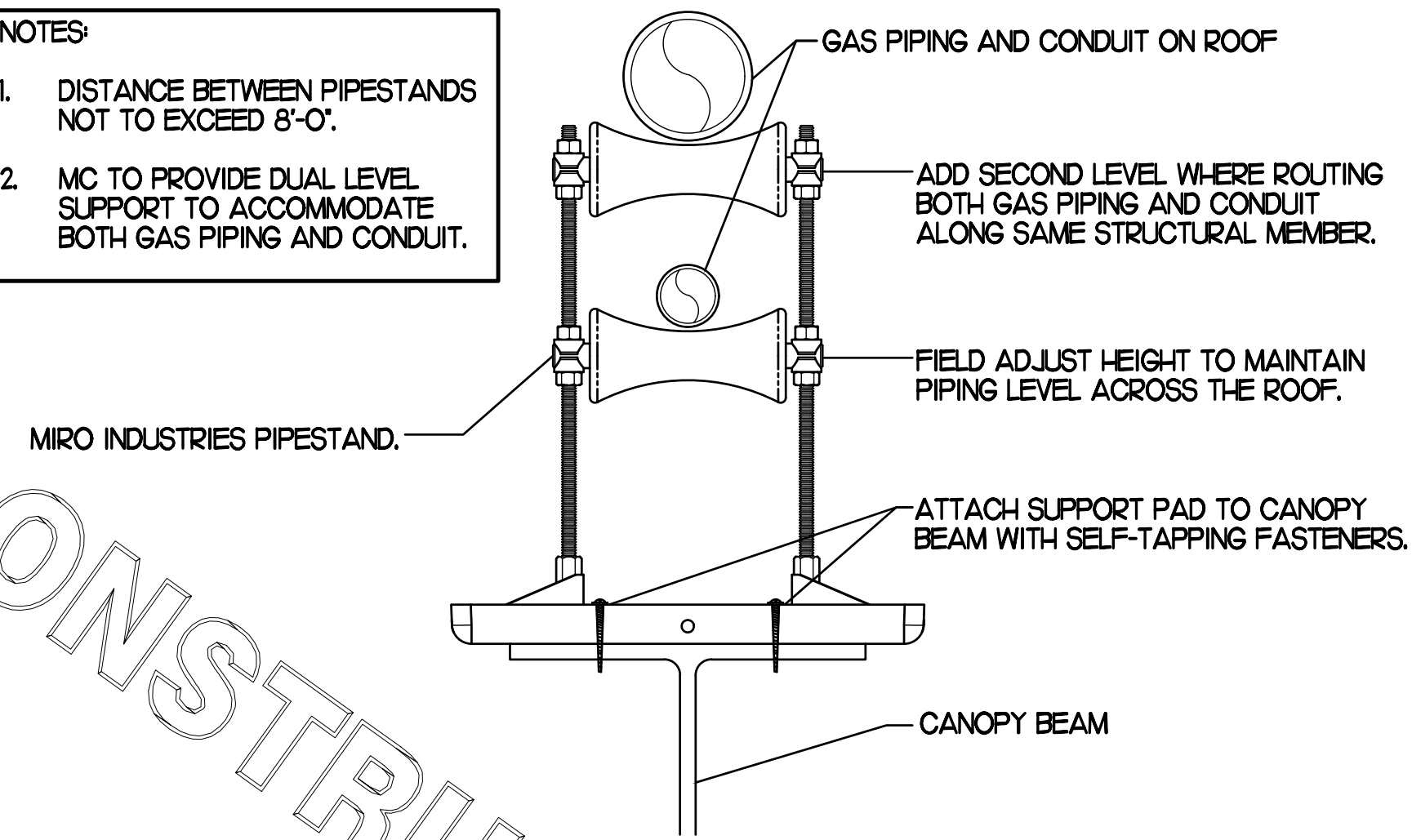
SHEET TITLE
CANOPY
HVAC PLANS

VERSION: S06-C
ISSUE DATE: 04.10.20

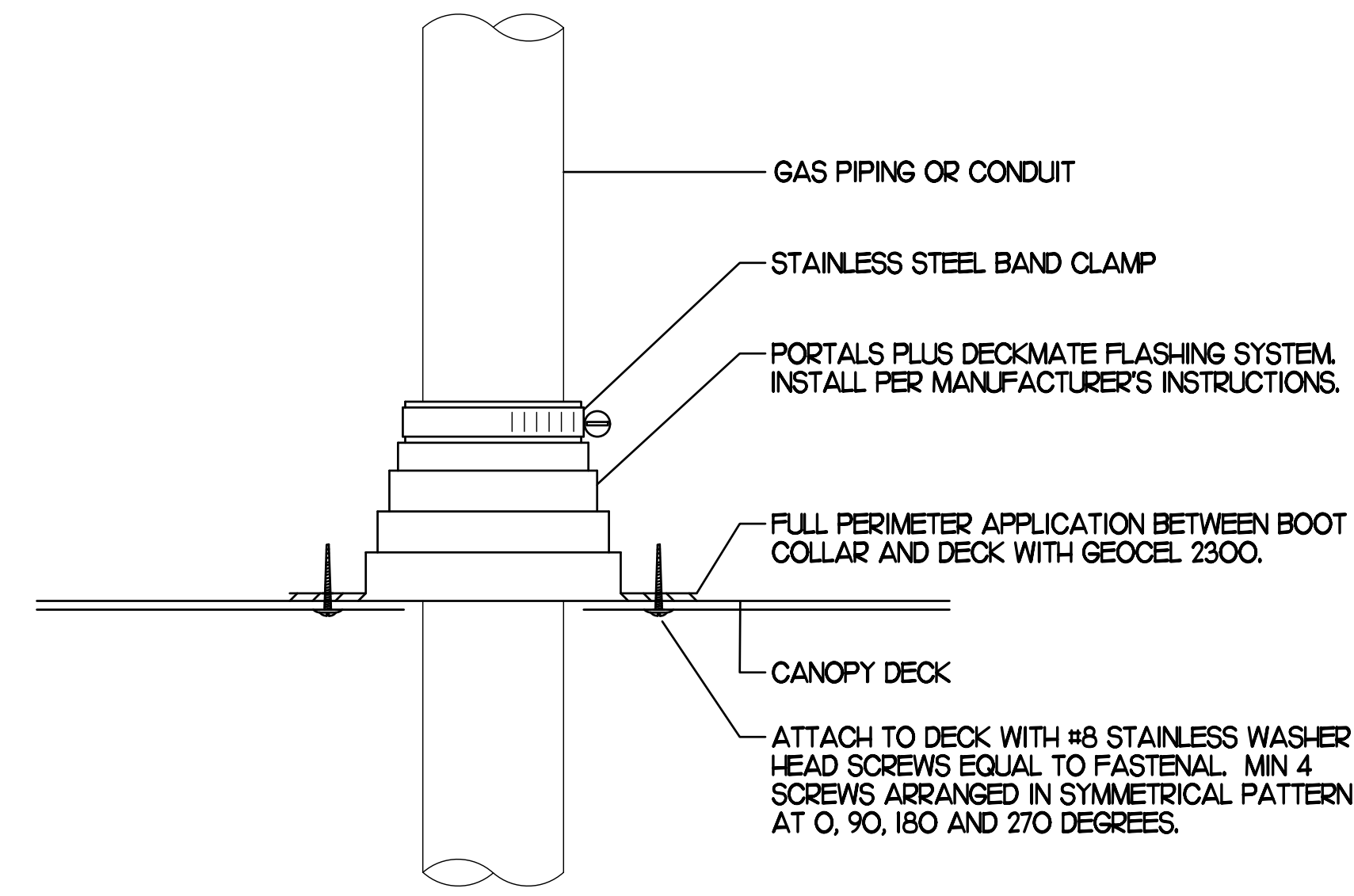
Job No. : 20033.CD.R
Store : #1920
Date : 03.27.20
Drawn By : AK
Checked By : MK

Sheet
M5.1

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

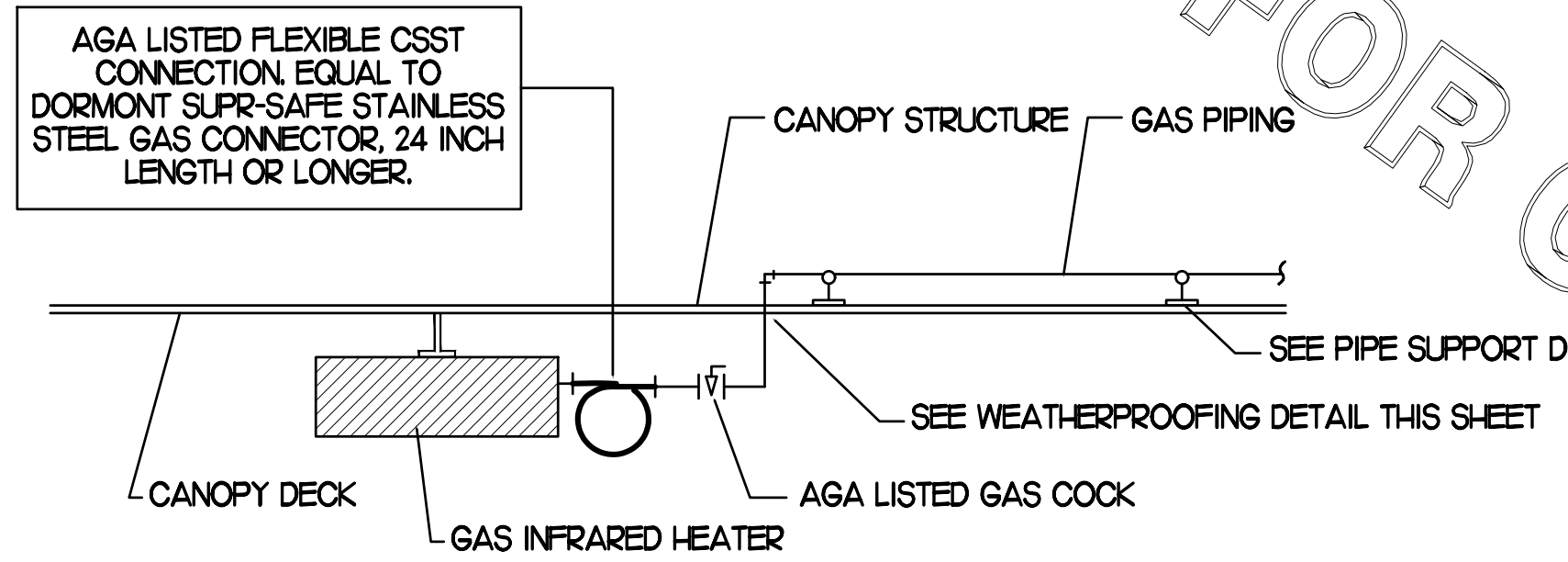


1 PIPING SUPPORT ON CANOPY
NO SCALE

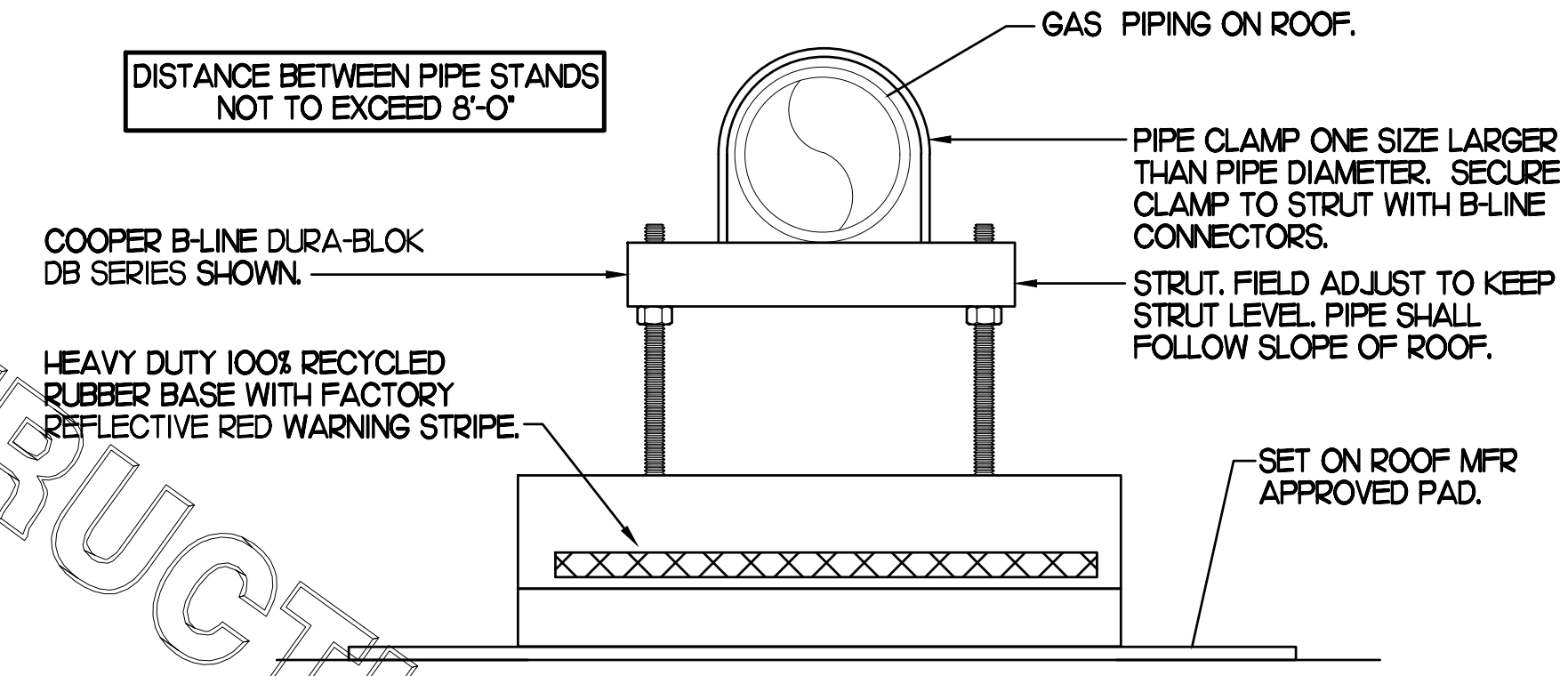


2 WEATHERPROOFING AT CANOPY PENETRATION
NO SCALE

- NOTES:
1. NON ADJUSTABLE MODEL DB610 PIPE STAND TO BE USED FOR NON-ELEVATED PIPING INSTALLED FLAT ON ROOF DECK.
 2. 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.
 3. 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.



3 GAS CONNECTION AT APPLIANCE
NO SCALE



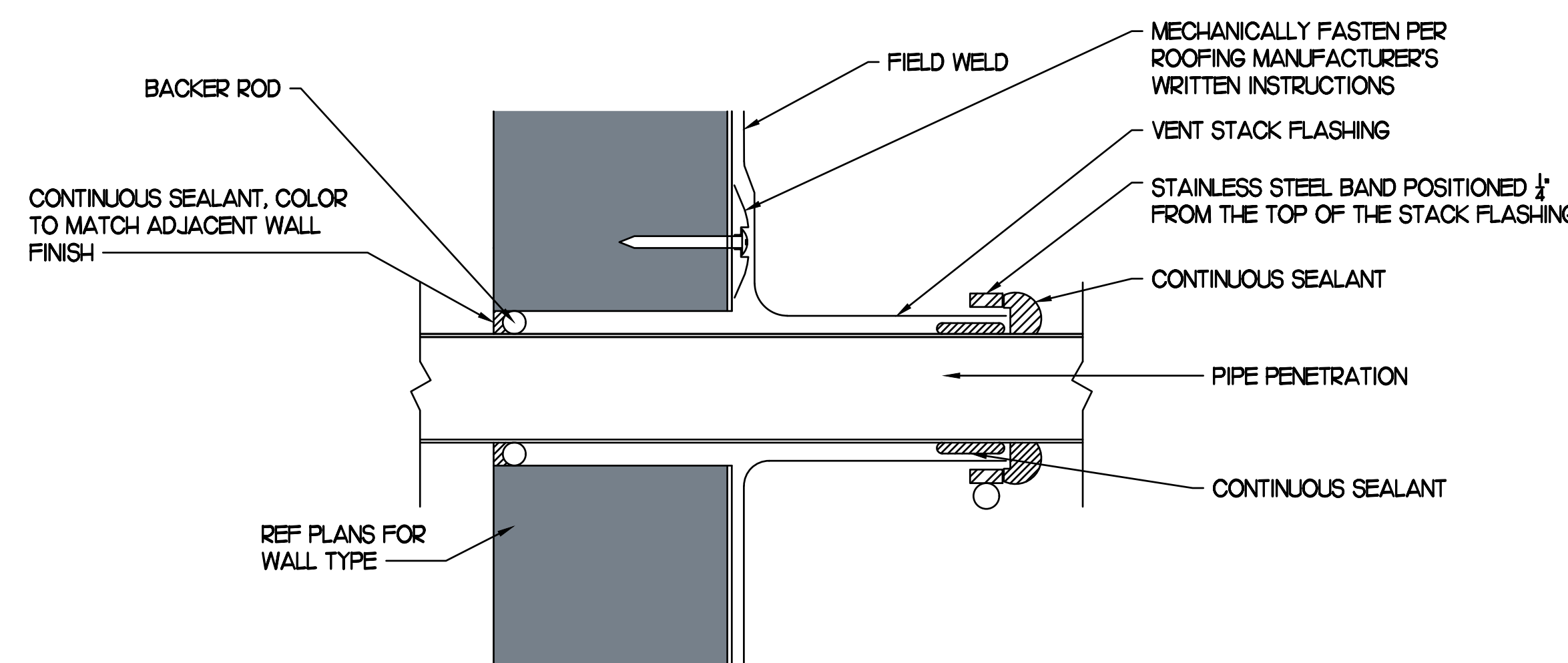
4 PIPING SUPPORT ON MAIN BLDG ROOF
NO SCALE

GAS FIRED INFRARED HEATER SCHEDULE

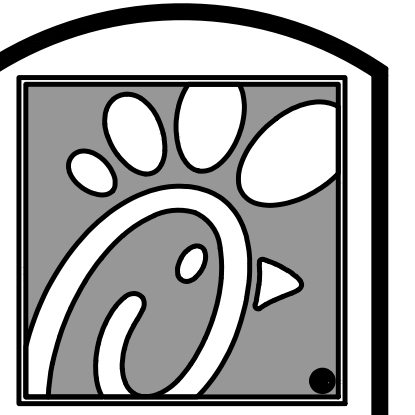
MARK	INPUT (MBH)	FRAME SIZE			MOUNTING TYPE	MODEL	MANUFACTURER
		LENGTH	WIDTH	DEPTH			
ALL GIH	50.0	48"	13"	10"	BRACKET	2352-NG	SCHWANK
REMARKS	<ol style="list-style-type: none"> 1. STEEL BURNER WITH CERAMIC BURNER TILES. 2. STAINLESS STEEL LENS WITH BLACK EMISSIVE COATING. 3. PROVIDE ENGRAVED PLASTIC 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. 4. MOUNTING BRACKET PROVIDED AND INSTALLED BY CANOPY MFR. 5. PROVIDE HEAT SHIELD ABOVE EACH HEATER AT THE BOTTOM OF THE BRACKET. 						

CIRCULATING FAN SCHEDULE

MARK	CFM	RPM	HP	MODEL	MANUFACTURER
REMARKS	<ol style="list-style-type: none"> 1. ALUMINUM PADDLE WITH STEEL HUB/SPIDER PROPELLER. 2. 360 DEG. ROTATING HEAD HORIZONTALLY AND VERTICALLY. 3. OSHA COMPLIANT DOUBLE LOCKING, COATED STEEL WIRE GUARD. 4. 3-SPEED, TOTALLY ENCLOSED, PERMANENTLY LUBRICATED BALL BEARING MOTOR. 5. FACTORY PRE-WIPED POWER CORD. 6. PROVIDE FACTORY WALL MOUNTING BRACKET. 7. PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. MOUNT TO UNDERSIDE OF CANOPY OR EXISTING OVERHANG, FACING DOWNWARD, 12" Laterally FROM THE FAN LOCATION. 8. REMOVE PULL CHAIN EXTENSION AT ON/OFF SWITCH IN FIELD. 				



5 PARAPET PENETRATION DETAIL
NO SCALE



Chick-fil-E

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STORE #01920
MONTROSE FSU

47 FLIGHT MEMORIAL
PKWY, FAIRLAWN OH,
44333

SHEET TITLE
CANOPY
DETAILS &
SCHEDULES

VERSION: S06-C
ISSUE DATE: 04.10.20

Job No. : 20033.CD.R
Store : #1920
Date : 03.27.20
Drawn By : AK
Checked By : MK

Sheet
M5.2

FOR CONSTRUCTION

COMcheck Software Version 4.1.1.0
Envelope Compliance Certificate

Project Information

Energy Code: 2015 IECC
 Project Title: Chick-fil-A #1920
 Location: Fairlawn, Ohio
 Climate Zone: 5a
 Project Type: Addition

Construction Site: 47 Flight Memorial Blvd., Fairlawn, OH 44333
 Owner/Agent: Chick-fil-A, 5200 Buffington Road, Atlanta, GA 30349
 Designer/Contractor: Kurzynske & Associates, 2900 Lebanon Pike Ste. 201, Nashville, TN 37214, 615-255-5203

Building Area

	Floor Area
1-Storage (Dining; Cafeteria/Fast Food) : Nonresidential	360
2-Drive Thru (Dining; Cafeteria/Fast Food) : Nonresidential	26

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor ^(a)
Roof 1: Insulation Entirely Above Deck: High Albedo Roof Required, (Bldg. Use 1 - Storage)	360	---	30.0	0.032	0.032
Floor 2: Slab-On-Grade-Unheated, Vertical 2 ft., (Bldg. Use 1 - Storage) (a)	59	---	10.0	0.540	0.540
Roof 2: Insulation Entirely Above Deck: High Albedo Roof Required, (Bldg. Use 2 - Drive Thru)	26	---	30.0	0.032	0.032
Floor 2: Slab-On-Grade-Unheated, Vertical 2 ft., (Bldg. Use 2 - Drive Thru) (b)	24	---	10.0	0.540	0.540
NORTH					
Exterior Wall 1: Wood-Framed, 16" o.c., (Bldg. Use 1 - Storage)	108	19.0	0.0	0.067	0.064
Exterior Wall 4: Wood-Framed, 16" o.c., (Bldg. Use 2 - Drive Thru)	60	19.0	0.0	0.067	0.064
EAST					
Exterior Wall 2: Wood-Framed, 16" o.c., (Bldg. Use 1 - Storage)	492	19.0	0.0	0.067	0.064
Door 2: Insulated Metal, Swinging, (Bldg. Use 1 - Storage)	28	---	---	0.330	0.370
SOUTH					
Exterior Wall 3: Wood-Framed, 16" o.c., (Bldg. Use 1 - Storage)	108	19.0	0.0	0.067	0.064
WEST					
Exterior Wall 5: Wood-Framed, 16" o.c., (Bldg. Use 2 - Drive Thru)	30	19.0	0.0	0.067	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 R-factors.

Project Title: Chick-fil-A #1920 Report date: 03/30/20
 Data filename: F:\Prototypes\Chick-fil-A\2020-CFA Projects\CFA Remodel Projects\20033.CD.R - Fairlawn, OH Page 1 of 9 (Montrose) - 1920\Comcheck\CFA #1920 2015 IECC ComCheck.cck

Envelope PASSES: Design 0.0% 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 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

MARK KURZYNSKE, P.E. Signature *mk* Date 3/30/20

Name - Title Signature Date

Project Title: Chick-fil-A #1920 Report date: 03/30/20
 Data filename: F:\Prototypes\Chick-fil-A\2020-CFA Projects\CFA Remodel Projects\20033.CD.R - Fairlawn, OH Page 2 of 9 (Montrose) - 1920\Comcheck\CFA #1920 2015 IECC ComCheck.cck

COMcheck Software Version 4.1.1.0
Mechanical Compliance Certificate

Project Information

Energy Code: 2015 IECC
 Project Title: Chick-fil-A #1920
 Location: Fairlawn, Ohio
 Climate Zone: 5a
 Project Type: Addition

Construction Site: 47 Flight Memorial Blvd., Fairlawn, OH 44333
 Owner/Agent: Chick-fil-A, 5200 Buffington Road, Atlanta, GA 30349
 Designer/Contractor: Kurzynske & Associates, 2900 Lebanon Pike Ste. 201, Nashville, TN 37214, 615-255-5203

Mechanical Systems List

Quantity System Type & Description

- AC#1 (25-ton) (Single Zone):
 Heating: 1 each - Central Furnace, Gas, Capacity = 384 kBtu/h
 Proposed Efficiency = 80.00% EL Required Efficiency: 80.00% EL
 Cooling: 1 each - Single Package DX Unit, Capacity = 278 kBtu/h, Air-Cooled Condenser, Air Economizer
 Proposed Efficiency = 10.50 EER, Required Efficiency: 9.80 EER + 11.4 IEER
 Fan System: None
- AC#2 (8.5-ton) (Single Zone):
 Heating: 1 each - Central Furnace, Gas, Capacity = 192 kBtu/h
 Proposed Efficiency = 80.00% EL Required Efficiency: 80.00% EL or 78% AFUE
 Cooling: 1 each - Single Package DX Unit, Capacity = 100 kBtu/h, Air-Cooled Condenser, Air Economizer
 Proposed Efficiency = 12.20 EER, Required Efficiency: 11.00 EER + 12.6 IEER
 Fan System: None
- AC#3 (12.5-ton) (Single Zone):
 Heating: 1 each - Central Furnace, Gas, Capacity = 192 kBtu/h
 Proposed Efficiency = 80.00% EL Required Efficiency: 80.00% EL or 78% AFUE
 Cooling: 1 each - Single Package DX Unit, Capacity = 155 kBtu/h, Air-Cooled Condenser, Air Economizer
 Proposed Efficiency = 10.80 EER, Required Efficiency: 10.80 EER + 12.2 IEER
 Fan System: None
- AC#4 (5-ton) (Single Zone):
 Heating: 1 each - Central Furnace, Gas, Capacity = 120 kBtu/h
 Proposed Efficiency = 80.00% EL Required Efficiency: 80.00% EL or 78% AFUE
 Cooling: 1 each - Single Package DX Unit, Capacity = 63 kBtu/h, Air-Cooled Condenser, Air Economizer
 Proposed Efficiency = 17.10 SEER, Required Efficiency: 14.00 SEER
 Fan System: None
- GH (Single Zone):
 Heating: 1 each - Radiant Heater, Gas, Capacity = 50 kBtu/h
 No minimum efficiency requirement applies
 Fan System: None

Project Title: Chick-fil-A #1920 Report date: 03/30/20
 Data filename: F:\Prototypes\Chick-fil-A\2020-CFA Projects\CFA Remodel Projects\20033.CD.R - Fairlawn, OH Page 1 of 13 (Montrose) - 1920\Comcheck\CFA #1920 2015 IECC ComCheck.cck

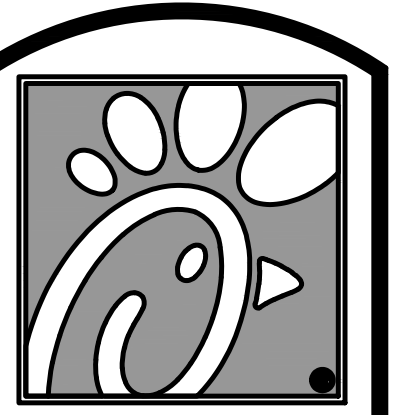
Mechanical Compliance Statement

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 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

MARK KURZYNSKE, P.E. Signature *mk* Date 3/30/20

Name - Title Signature Date

Project Title: Chick-fil-A #1920 Report date: 03/30/20
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STORE #01920
MONTROSE FSU

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SHEET TITLE
MECH &
ENVELOPE
COMCHECK

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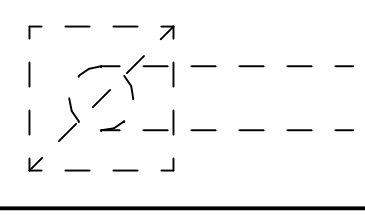
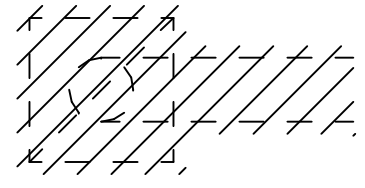
Job No. : 20033.CD.R
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 Drawn By : AK
 Checked By : MK

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M6.I

FOR CONSTRUCTION

DEMOLITION NOTES

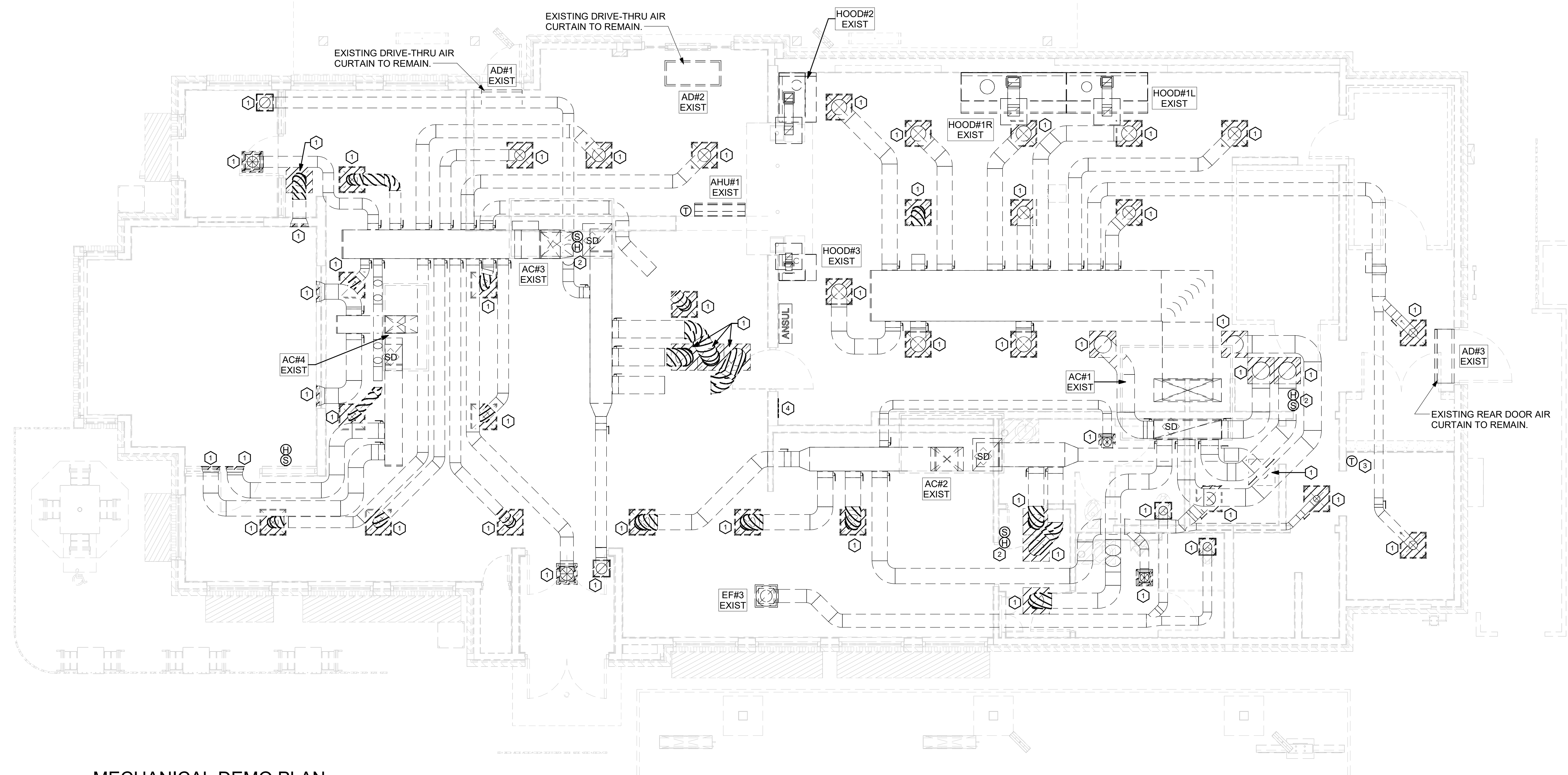
1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL APPLICABLE FEES.
2. DISPOSAL OF EQUIPMENT AND MATERIALS REQUIRED TO BE REMOVED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING THE WORK.
3. DE-ENERGIZE ALL ELECTRICAL CIRCUITS RELATED TO EQUIPMENT THAT WILL BE MOVED 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 AND/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 TAB CONTRACTOR.
7. CONTRACTOR SHALL INDICATE SALVAGE VALUE IN BID FOR ROOFTOP UNITS BEING REPLACED.

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

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.

KEY NOTES

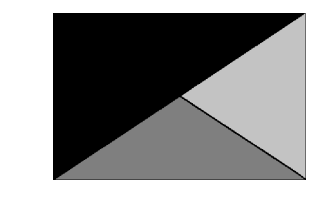
1. DETACH AND DEMOLISH EXISTING AIR DEVICE. SECURE DUCT ABOVE CEILING GRID FOR RE-CONNECTION. SEE SHEET M-201 FOR NEW CONNECTION.
2. EXISTING REMOTE TEMPERATURE AND/OR REMOTE HUMIDITY SENSORS TO BE RELOCATED AS SHOWN ON SHEET M-201.
3. EXISTING THERMOSTAT TO BE RELOCATED AS SHOWN ON SHEET M-201.
4. EXISTING DUCT SMOKE DETECTORS AND REMOTE TEST/RESET STATIONS TO REMAIN.



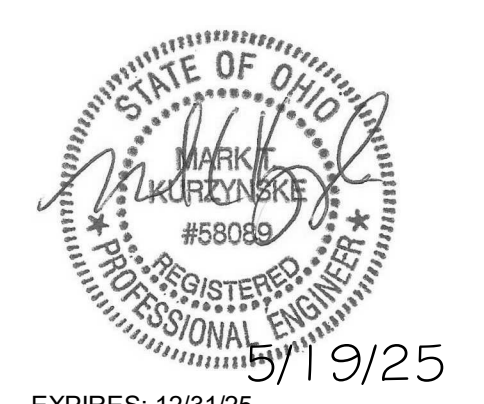
1 MECHANICAL DEMO PLAN
1/4" = 1'-0"



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



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



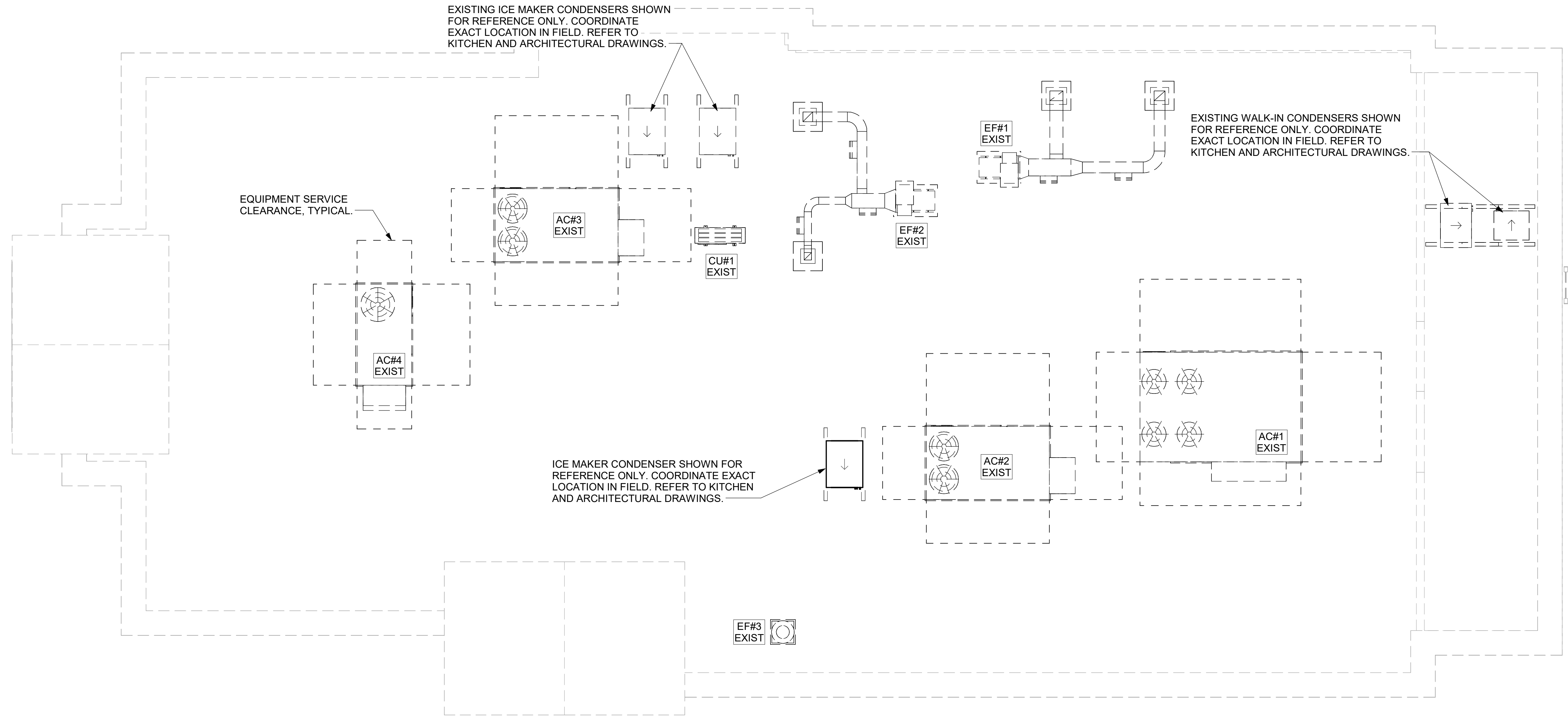
CHICK-FIL-A
MONTROSE FSU
47 FLIGHT MEMORIAL PKWY
FAIRLAWN, OH 44333

FSR#01920
BUILDING TYPE / SIZE: SR 506E
RELEASE: PRINTED FOR
ISSUED FOR CONSTRUCTION
REVISION SCHEDULE
NO. DATE DESCRIPTION
1 05/19/2025 Issue for Construction

CONSULTANT PROJECT # 24084.M.A.R.
DATE 01/07/25
DRAWN BY DSF
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SHEET
MECHANICAL DEMO PLAN
SHEET NUMBER

M-200

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.

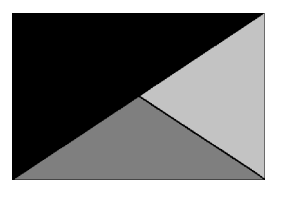


1 MECHANICAL ROOF PLAN
1/4" = 1'-0"

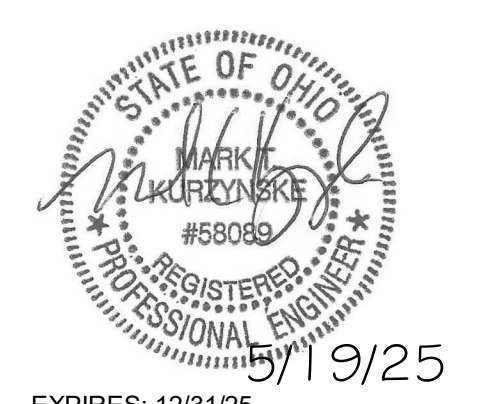


Chick-fil-A

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EXPIRES: 12/31/25

CHICK-FIL-A
MONTROSE FSU
47 FLIGHT MEMORIAL PKWY
FAIRLAWN, OH 44333

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SHEET
MECHANICAL ROOF PLAN
SHEET NUMBER
M-250

4

3

2

1

E

D

C

B

A

E

D

C

B

A

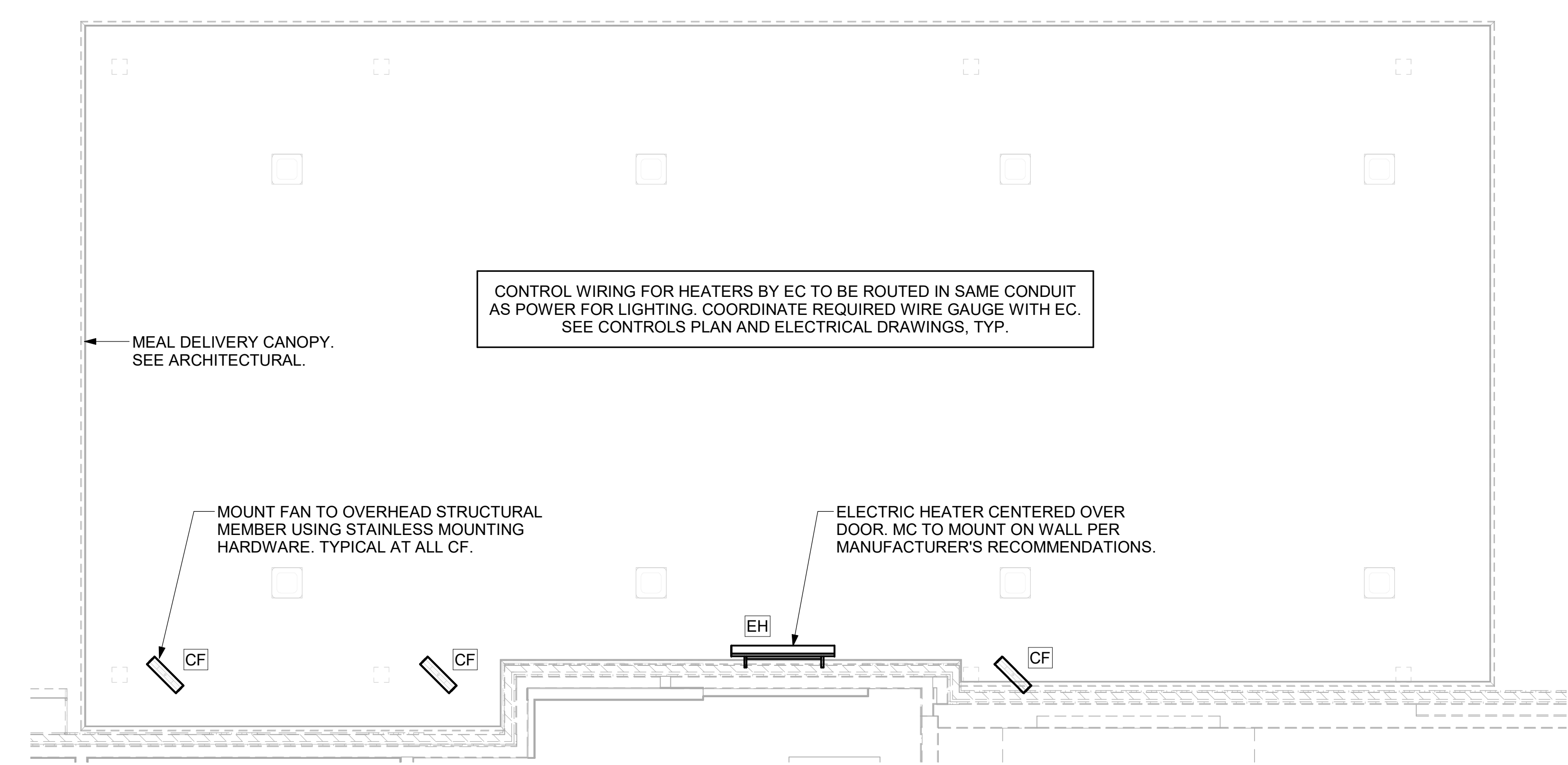
LEGEND			
CF	CIRCULATING FAN	GIH	GAS INFRARED HEATER (TYP.)
EC	ELECTRICAL CONTRACTOR	MC	MECHANICAL CONTRACTOR

CANOPY GENERAL NOTES

- COORDINATE NEW WORK WITH EXISTING CONDUIT, STRUCTURE, AND PIPING. FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK.
- ACTUAL NUMBER OF GAS INFRARED HEATERS WILL BE DETERMINED BY SITE-SPECIFIC CANOPY LAYOUT AND EQUIPMENT LOCATIONS, AS INDICATED ON ARCHITECTURAL PLANS.
- CONTROL WIRING FOR HEATERS BY EC. COORDINATE REQUIRED WIRE GAUGE WITH EC. SEE CONTROLS PLAN AND ELECTRICAL DRAWINGS, TYP.

ELECTRIC INFRARED HEATER SCHEDULE							
MARK	INPUT (KW)	FRAME LENGTH	FRAME WIDTH	FRAME DEPTH	MOUNTING TYPE	MODEL	MANUFACTURER
EH	6.0	56"	8.5"	3.5"	BRACKET	BH0420035	BROMIC
REMARKS	<ol style="list-style-type: none"> PROVIDE WITH BLACK HIGH TEMPERATURE COATING. PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. PROVIDE WITH MOUNTING BRACKETS PER MANUFACTURER'S RECOMMENDATIONS. 						

CIRCULATING FAN SCHEDULE					
MARK	CFM	RPM	HP	MODEL	MANUFACTURER
CF	5750	1,625	1/8	UI18TE-HD	TPI
REMARKS	<ol style="list-style-type: none"> ALUMINUM PADDLE WITH STEEL HUB/SPIDER PROPELLER. 360 DEG. ROTATING HEAD HORIZONTALLY AND VERTICALLY. OSHA COMPLIANT DOUBLE LOCKING, COATED STEEL WIRE GUARD. 3-SPEED, TOTALLY ENCLOSED, PERMANENTLY LUBRICATED BALL BEARING MOTOR. FACTORY PRE-WIRED POWER CORD. PROVIDE FACTORY WALL MOUNTING BRACKET. PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. MOUNT TO UNDERSIDE OF CANOPY OR EXISTING OVERHANG, FACING DOWNWARD, 12" Laterally FROM THE FAN LOCATION. REMOVE PULL CHAIN EXTENSION AT ON/OFF SWITCH IN FIELD. FACTORY CERTIFIED FOR OUTDOOR INSTALLATION. 				

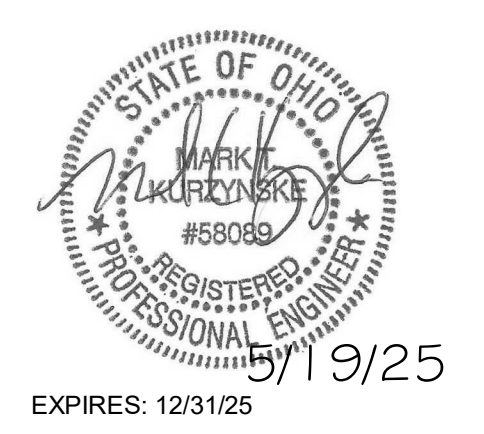


2 MECHANICAL PLAN - MEAL DELIVERY CANOPY
1/4" = 1'-0"



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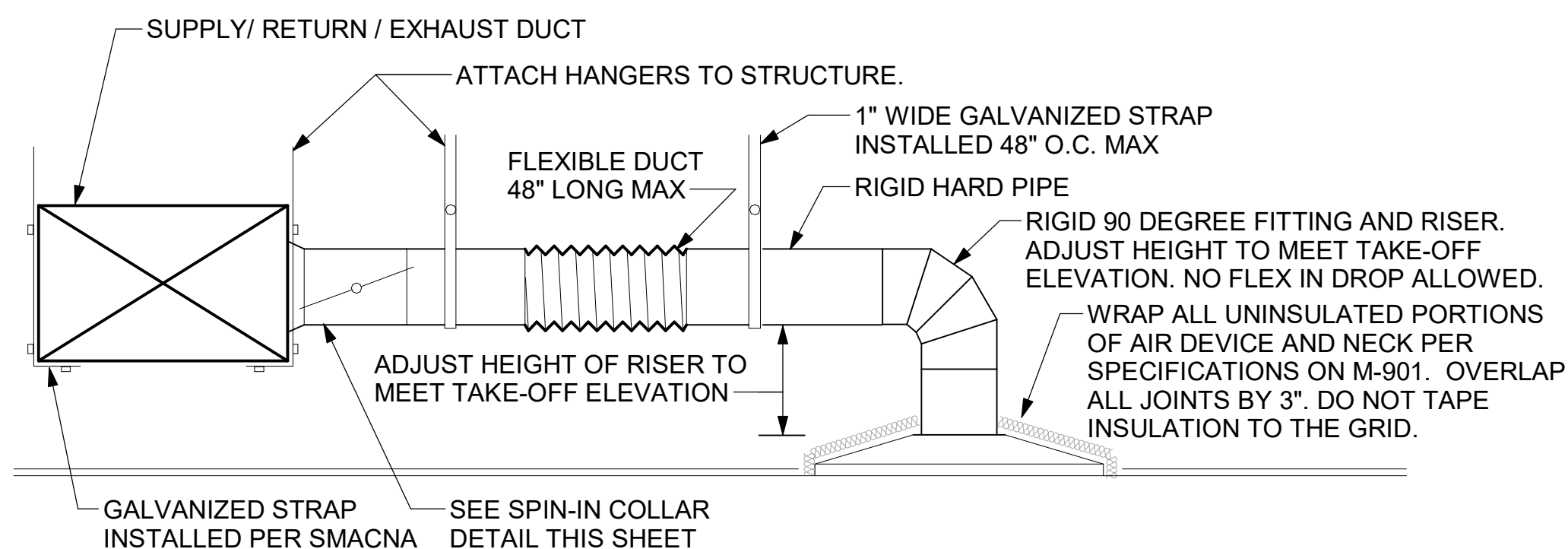


CHICK-FIL-A
MONTROSE FSU
47 FLIGHT MEMORIAL PKWY
FAIRLAWN, OH 44333

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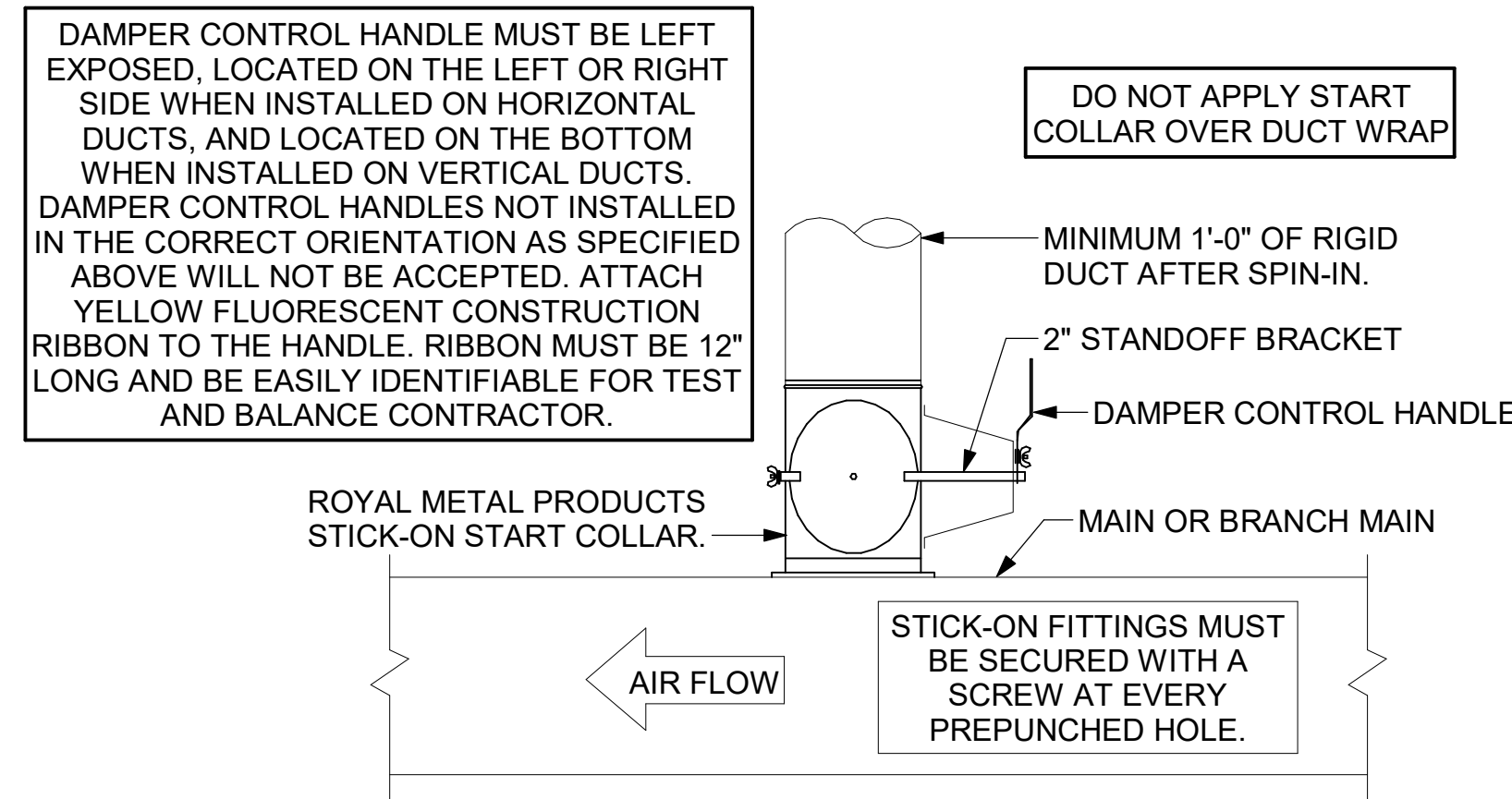
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SHEET
HVAC CANOPY PLANS
SHEET NUMBER

M-251



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

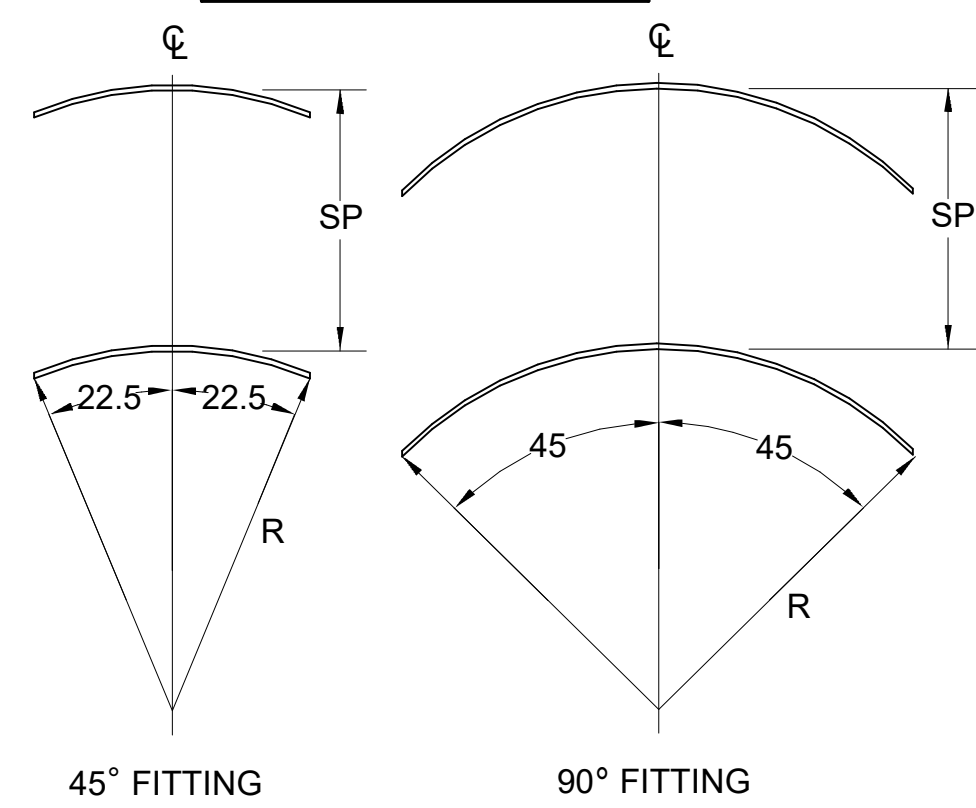
CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE ROYAL METAL PRODUCTS START COLLARS FOR BOTH WITH AND WITHOUT A MANUAL BALANCING DAMPER. THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE ROYAL METAL PRODUCTS START COLLARS DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. ROYAL METAL PRODUCTS START COLLARS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.



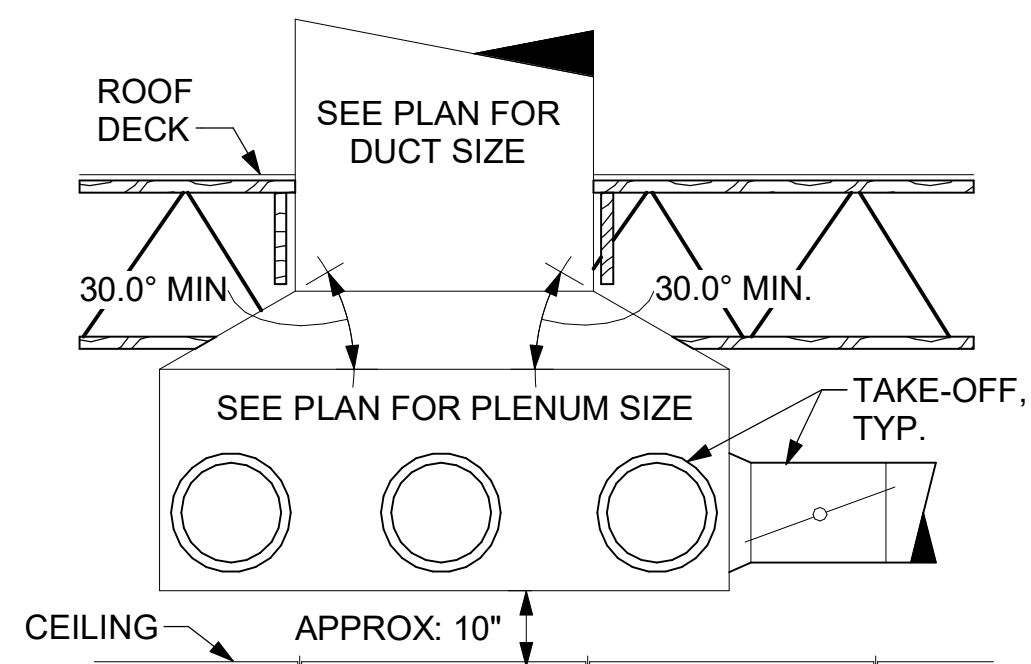
2 START COLLAR
 NOT TO SCALE

TURNING VANE SCHEDULE		
R	SP	GA
2"	1.5"	24

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



3 TURNING VANES
 NOT TO SCALE

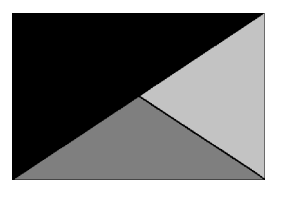


5 RETURN DROP GEOMETRY
 NOT TO SCALE

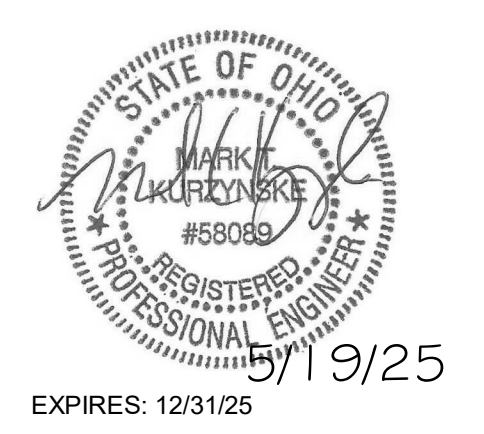
AIR DEVICE SCHEDULE						
MARK	DESCRIPTION	LOCATION	NECK SIZE	FACE SIZE	FRAME TYPE	REMARKS
A	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	DINING/KITCHEN	VARIES	24"x24"	LAY-IN	1,6
C	PRICE MODEL SMCD STEEL SUPPLY AIR DIFFUSER WITH FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	ENTRY	14"x14"	20"x20"	BEVELLED	1,2,4,5
E	PRICE MODEL 22 DOUBLE DEFLECTION ALUMINUM SIDEWALL SUPPLY GRILLE, FRONT BLADE PARALLEL TO LONG SIDE.	PLAY AREA	18"x12"	20"x14"	SURFACE	1
F	PRICE MODEL 80 EGGCRATE RETURN AIR GRILLE WITH REMOVABLE WHITE CORE, FACTORY FLAT BLACK BACKPAN AND ROUND NECK.	DINING/KITCHEN	VARIES	24"x24"	LAY-IN	1,6
H	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	OFFICE	SEE PLAN	24"x24"	LAY-IN	1,6,7
J	PRICE MODEL SMCD STEEL SUPPLY AIR DIFFUSER WITH FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	RESTROOMS	10"x10"	16"x16"	BEVELLED	1,2,3,4,5
K	PRICE MODEL APDDR ALUMINUM PERFORATED FACE RETURN AIR GRILLE.	ENTRY/ RESTROOMS	14"x14"	16"x16"	SURFACE	1,3,4,5
L	PRICE MODEL 22 DOUBLE DEFLECTION ALUMINUM SIDEWALL RETURN GRILLE, FRONT BLADE PARALLEL TO LONG SIDE.	PLAY AREA	16"x16"	18"x18"	SURFACE	1
NOTES	<ul style="list-style-type: none"> CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE AIR DEVICES. MECHANICAL CONTRACTOR SHALL PURCHASE THE AIR DEVICES DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010, FOR PRICING AND AVAILABILITY. AIR DEVICES NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED. 					
REMARKS	<ol style="list-style-type: none"> STANDARD OFF WHITE FINISH. SEE DRAWING M-201 FOR THROW. PROVIDE FACTORY MOUNTED MODEL VCS3 NECK DAMPER AND FIELD INSTALLED RECTANGULAR TO ROUND TRANSITION. PROVIDE BACKPAN. MC TO SEAL JOINTS WITH MASTIC AND INSULATE EXTERNALLY. FIELD INSULATE BACKPAN AS SHOWN ON DETAIL 1/M-401. FACTORY INSULATED R-6 BACKPAN. PROVIDE FACTORY VCR7 NECK DAMPER, ADJUSTABLE THRU DIFFUSER FACE. 					



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CHICK-FIL-A
MONTROSE FSU
 47 FLIGHT MEMORIAL PKWY
 FAIRLAWN, OH 44333

FSR#01920
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 DATE 01/07/25
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 SHEET
HVAC DETAILS AND SCHEDULES
 SHEET NUMBER
M-401

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 OWNER'S REPRESENTATIVE. ALL EQUIPMENT, COMPONENTS, DUCTWORK, AND AIR DEVICES SHALL BE INSPECTED AND THOROUGHLY CLEANED, CLEARED OF DEBRIS, AND READY FOR USE. AT COMPLETION OF JOB, ALL MISCELLANEOUS TOOLS, SCAFFOLDING, SURPLUS MATERIALS, RUBBISH AND DEBRIS SHALL BE REMOVED BY CONTRACTOR.
 - F. CONTRACTOR SHALL PROVIDE TWO SETS OF 2" MERV 8 OR HIGHER THROW AWAY TYPE FILTERS. A CLEAN SET SHALL BE PROVIDED PRIOR TO TEST AND BALANCE AND AGAIN PRIOR TO OPENING.

PART II - PRODUCTS

- 2.01 HEATING AND COOLING EQUIPMENT (C15730)
- A. FURNISH AND INSTALL R-410A ROOFTOP SINGLE PACKAGE COMBINATION ELECTRIC COOLING AND NATURAL GAS FIRED HEATING UNITS BY LENNOX AS SHOWN ON DRAWINGS. EQUIPMENT SHALL BE ARI CERTIFIED AND A.G.A. AND U.L. LISTED.
 - B. ACCESSORIES SHALL INCLUDE LOW AND HIGH PRESSURE SAFETIES, CRANK CASE HEATER, OVERCURRENT AND OVERTEMPERATURE SAFETY, COMPRESSOR VIBRATION ISOLATORS, FILTER DRIERS, REFRIGERANT SERVICE VALVES, COIL HAIL GUARDS WHERE SCHEDULED, CONVENIENCE OUTLETS FACTORY INSTALLED ON SCHEDULED UNITS, UNIT MOUNTED NON-FUSED DISCONNECTS, LOW AMBIENT OPERATION DOWN TO 30 DEGREES F AND EVAPORATOR FREEZE STAT.
 - C. COMPRESSORS SHALL BE FULLY HERMETIC SCROLL TYPE WITH INTERNAL VIBRATION ISOLATORS. COMPRESSORS SHALL BE PROVIDED WITH A MINIMUM FIVE (5) YEAR FULL WARRANTY.
 - D. THE UNIT HEAT EXCHANGERS SHALL BE STEEL WITH ALUMINIZED STEEL COATING. HEATING CONTROLS SHALL CONSIST OF REDUNDANT GAS VALVES, INTERMITTENT PILOT WITH ELECTRONIC SPARK OR HOT PLATE IGNITION SYSTEM, COMBUSTION/EXHAUST FAN PROTECTED BY CENTRIFUGAL SWITCHES, HEAT LIMIT SWITCHES, TIME-DELAY RELAY, FLAME, AND PILOT SENSORS. ALL UNITS SHALL BE CAPABLE OF TWO STAGES OF HEAT. HEAT EXCHANGES SHALL HAVE A TEN (10) YEAR WARRANTY. BURNERS SHALL BE ALUMINIZED IN-SHOT TYPE. THE DRAFT MOTOR SHALL BE MONITORED BY THE CONTROL SYSTEM.
 - E. CHICK-FIL-A MAINTAINS A NATIONAL ACCOUNT FOR EQUIPMENT WITH LENNOX CORPORATION. PRICING FOR THE EQUIPMENT HAS BEEN ESTABLISHED IN ADVANCE. CONTACT LENNOX NATIONAL ACCOUNTS AT 972-497-6260 (OR BY FAX AT 972-497-5112) FOR PRICING, ORDERING AND AVAILABILITY.

2.02 DUCTWORK (C15735) (SEE 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)

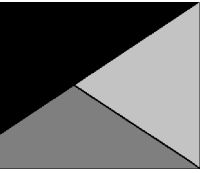
- A. SYSTEMS SHALL BE COMPLETE WITH CONNECTIONS TO CFA-500 TEMPERATURE CONTROL PANEL AS MANUFACTURED BY SUNCOAST ENVIRONMENTAL CONTROLS (S.E.C.) (PH: 877-544-6679). THE PANEL IS PROVIDED AND MOUNTED BY THE ELECTRICAL CONTRACTOR. CONTROL WIRING TERMINATIONS ARE BY THE MECHANICAL CONTRACTOR.
- B. THE SMOKE DETECTORS SHALL BE FACTORY INSTALLED AND WIRED BY THE ROOFTOP UNIT MANUFACTURER.
- C. A FACTORY INSTALLED SMOKE DETECTOR IN THE RETURN AIR SECTION OF EACH AIR CONDITIONING UNIT SHALL STOP THE INDOOR FAN AND CLOSE THE OUTSIDE AIR DAMPER IN THE EVENT OF EXCESSIVE TEMPERATURE OR SMOKE. SMOKE DETECTOR SHALL BE LOCATED PRIOR TO ANY EXHAUST FROM THE BUILDING OR MIXING WITH FRESH AIR MAKE-UP. UPON DETECTION, THE SYSTEM SHALL NOT RESTART UNTIL THE DEVICE IS MANUALLY RESET. DEVICES SHALL BE LOCATED WHERE THEY CAN BE EASILY ACCESSED AND WHERE CLEAR OF FILTERS.
- D. CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH SUNCOAST ENVIRONMENTAL CONTROLS FOR THE SMOKE DETECTOR TEST/RESET ANNUNCIATOR STATIONS. THE TEST/RESET STATIONS WILL BE PURCHASED BY THE ELECTRICAL CONTRACTOR AS A PART OF A NATIONAL ACCOUNT PACKAGE AND TURNED OVER TO THE MECHANICAL CONTRACTOR FOR INSTALLATION.
- E. THE REMOTE TEST/RESET ANNUNCIATORS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. INSTALLATION BY MECHANICAL SHALL INCLUDE MOUNTING OF THE ANNUNCIATORS AND ALL WIRING FROM EACH DEVICE TO THE RTU. ELECTRICAL WILL PROVIDE A JUNCTION BOX IN THE WALL WITH 1/2" CONDUIT STUBBED UP ABOVE THE CEILING FOR EACH REMOTE TEST STATION AS SHOWN ON THE ELECTRICAL PLANS. ANNUNCIATOR SHALL BE SUNCOAST CONTROLS REMOTE TEST/RESET STATION WITH POWER LED, TROUBLE LED, ALARM LED, 90DB HORN AND TEST/RESET BUTTON.
- F. THE RESTROOM FAN SHALL BE INTERLOCKED TO THE LIGHTS SERVING THE MEN AND WOMEN'S RESTROOMS. THE HOOD FANS SHALL BE CONTROLLED VIA THE SUNCOAST CFA-500 CONTROL PANEL. WIRING, RELAYS AND SWITCHES FOR CONTROL OF ALL FANS ARE BY ELECTRICAL CONTRACTOR.
- G. LENNOX UNITS - THERMOSTATS ARE PROVIDED AND INTEGRATED INTO THE TEMPERATURE CONTROL PANEL BY SUNCOAST ENVIRONMENTAL CONTROLS. SUNCOAST WILL PROVIDE A NETWORK THERMOSTAT US32-CFA THERMOSTAT PRE-WIRED IN THE TEMPERATURE CONTROL PANEL. A REMOTE TEMPERATURE SENSOR FOR EACH THERMOSTAT IS ALSO PROVIDED. MECHANICAL CONTRACTOR SHALL INSTALL ALL WIRING BETWEEN THE THERMOSTAT, THE REMOTE SENSOR AND THE ROOFTOP UNIT.
- H. MECHANICAL CONTRACTOR SHALL INSTALL CONTROL WIRING IN 1/2" CONDUIT WHERE REQUIRED BY CODE. WHERE NOT REQUIRED TO BE IN CONDUIT, ALL WIRING SHALL BE RUN PARALLEL TO STRUCTURAL MEMBERS OR PERPENDICULAR WITH NO DIAGONAL ROUTING. ALL WIRING SHALL BE SECURED TO THE FRAMING TO PREVENT SAGGING IN RUNS. WIRING TO ROOFTOP UNITS SHALL BE ROUTED THROUGH THE FACTORY THRU-BASE FITTING IN THE UNIT BASE. NO SPLICING OF WIRING WILL BE ACCEPTED. ALL WIRING ABOVE THE ROOF SHALL BE INSTALLED IN EXTERIOR GRADE FLEXIBLE CONDUIT. ALL CONTROL WIRING AND CONTROL WIRING CONDUIT SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. WIRING SHALL BE INSTALLED IN ACCORDANCE WITH LATEST EDITION OF NEC. ALL LOW VOLTAGE CONTROL WIRING SHALL BE NO LESS THAN 18 AWG MIN. CONTROL WIRING CONDUCTORS SHALL BE SIZED TO ACCOUNT FOR LOAD AND LENGTH OF RUN TO ALLOW SUFFICIENT VOLTAGE AVAILABLE AT CONTROLLED DEVICE TO OPERATE THE SYSTEM RELIABLY.

PART III - EXECUTION

- 3.01 SCOPE
- A. FURNISH AND INSTALL SYSTEM IN ACCORDANCE WITH REFERENCED STANDARDS, APPLICABLE CODES, MANUFACTURER'S RECOMMENDATIONS AND AS INDICATED ON DRAWINGS.
 - B. CONTRACTOR SHALL INSTRUCT THE OWNER'S REPRESENTATIVE IN ALL MATTERS PERTAINING TO THE PROPER MAINTENANCE OF EQUIPMENT FURNISHED UNDER THIS CONTRACT THROUGH DEMONSTRATION AND EXPLANATION OF OPERATING & MAINTENANCE MANUALS.
 - C. CONTRACTOR SHALL PROVIDE A "SAMPLE MAINTENANCE PROPOSAL" TO THE OWNER'S REPRESENTATIVE IN ALL MATTERS PERTAINING TO THE PROPER MAINTENANCE OF EQUIPMENT FURNISHED UNDER THIS CONTRACT.
 - D. CONTRACTOR SHALL COMPLETE A/C EQUIPMENT STARTUP DOCUMENTATION PROVIDED BY OWNER AND/OR MANUFACTURER. THIS SHALL INCLUDE RE-TORQUE OF ALL FIELD AND FACTORY HIGH VOLTAGE CONNECTIONS.
- 3.02 LEED PROJECTS
- A. CONTRACTOR SHALL COMPLETE RECEIPT INSPECTION CHECKLISTS PROVIDED IN THE COMMISSIONING PLAN WITHIN 5 DAYS OF RECEIVING EQUIPMENT ON SITE.
 - B. CONTRACTOR SHALL COMPLETE PRE-FUNCTIONAL CHECKLISTS PROVIDED IN THE COMMISSIONING PLAN. CHECKLISTS SHALL BE RETURNED AT LEAST 5 DAYS PRIOR TO SCHEDULING FUNCTIONAL PERFORMANCE TESTING.
 - C. CONTRACTOR SHALL PROVIDE A TECHNICIAN TO ASSIST THE THIRD PARTY COMMISSIONING AUTHORITY WITH FUNCTIONAL TESTING. FUNCTIONAL TESTING SHALL OCCUR AFTER ALL CONTROLS HAVE BEEN INSTALLED AND VERIFIED AND AFTER TEST AND BALANCE IS COMPLETE. THE FUNCTIONAL PERFORMANCE TEST PROCEDURES CAN BE FOUND IN THE COMMISSIONING PLAN.
 - D. IF THE TOTAL TIME REQUIRED TO CORRECT PROBLEMS DURING TESTING IS GREATER THAT FORTY-FIVE (45) MINUTES (UNLESS EXTENUATING CIRCUMSTANCES EXIST), THE TEST SHALL BE CONSIDERED FAILED AND MUST BE REPEATED IN ITS ENTIRETY.
 - E. RE-TESTING: DURING THE COURSE OF THE RETEST, IF AT ANY POINT A MAJOR DEFICIENCY IS DISCOVERED, THE TEST WILL BE STOPPED. REPEAT TESTS UNTIL ACCEPTABLE RESULTS ARE ACHIEVED. IF MORE THAN TWO FUNCTIONAL PERFORMANCE TESTS (ONE INITIAL TEST AND ONE RETEST) FOR ANY TYPE OF EQUIPMENT DUE TO ISSUES THAT THE CONTRACTOR HAD DIRECT OR INDIRECT CONTROL OVER ARE REQUIRED, THE COSTS FOR THE CXA TO WITNESS RETESTING OF SIMILAR TYPES OF EQUIPMENT UNTIL SATISFACTORY RESULTS ARE OBTAINED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 3.03 TEST & BALANCE
- A. OWNER SHALL TEST AND BALANCE MECHANICAL SYSTEM IN ACCORDANCE WITH NEBB, NBC OR AABC STANDARDS TO ASSURE CONFORMANCE WITH DESIGN. G.C. WILL MAKE MECHANICAL CONTRACTOR AVAILABLE DURING TEST AND BALANCE TO ASSIST TESTING AGENCY AND TO MAKE CORRECTIONS IMMEDIATELY NECESSARY. CONTRACTOR SHALL CORRECT ITEMS ON WRITTEN TEST AND BALANCE REPORT.
 - B. ALL EQUIPMENT TO BE BALANCED MUST HAVE GONE THRU SUCCESSFUL START-UP PROCEDURE BY THE MECHANICAL CONTRACTOR (MC) PRIOR TO TAB VISIT.
 - C. THE FLOOR OF THE RESTAURANT SHALL BE CLEARED OF DEBRIS, STAGED CONSTRUCTION MATERIALS, EQUIPMENT, ETC. WHICH MAY, IN THE OPINION OF THE TAB TECHNICIAN, OBSTRUCT ACCESS TO AIR DISTRIBUTION COMPONENTS IN AND ABOVE THE CEILING.
 - D. EQUIPMENT ACCESS PANELS, DUCT AIR DEVICES SUCH AS BALANCING DAMPERS AND ACTUATORS SHALL BE ACCESSIBLE AND CLEAR OF PIPING, CONDUIT, FRAMING, SUPPORTS ETC...
 - E. PROVIDE AN 8 FT PORTABLE A-FRAME STYLE LADDER DEDICATED FOR THE TAB TECHNICIAN'S USE DURING THE ENTIRE TAB EFFORT DURATION.
 - F. THE MC SHALL BE AVAILABLE DURING THE ENTIRE DURATION OF THE TAB EFFORT AND HAVE ON-SITE THE RESOURCES AND TOOLS TO MAKE CORRECTIONS AS NEEDED UNDER THE DIRECTION OF THE TAB TECHNICIAN.



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



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



EXPIRES: 12/31/25

CHICK-FIL-A
MONTROSE FSU
 47 FLIGHT MEMORIAL PKWY
 FAIRLAWN, OH 44333

FSR#01920

BUILDING TYPE / SIZE: SR SOBE

RELEASE
 PRINTED FOR
ISSUED FOR CONSTRUCTION

REVISION SCHEDULE
 NO. DATE DESCRIPTION

CONSULTANT PROJECT # 24084.MA.R
 DATE 01/07/25

DRAWN BY DSF
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MECHANICAL SPECIFICATIONS

SHEET NUMBER

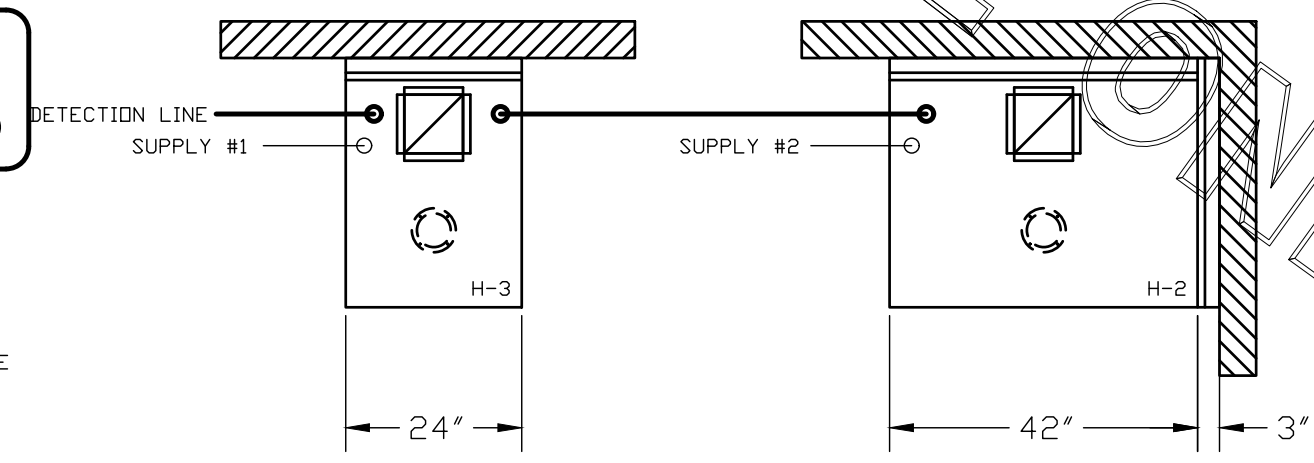
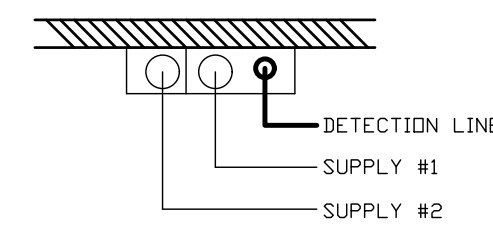
M-901

NATIONAL ACCOUNTS

1. LENNOX EQUIPMENT - CONTACT LENNOX NATIONAL ACCOUNTS AT 800-367-6285 (OR BY FAX AT 972-497-5112) FOR PRICING, ORDERING AND AVAILABILITY. LENNOX EQUIPMENT NOT PURCHASED THRU LENNOX NATIONAL ACCOUNTS WILL NOT BE ACCEPTED.
2. LOREN COOK FAN AND CURB PACKAGE - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE FAN/CURB PACKAGE DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. FANS AND CURBS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.
3. PRICE AIR DEVICES - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE AIR DEVICES DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. AIR DEVICES NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.
4. AIR DOORS - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE AIR DOORS DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. AIR DOORS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.
5. 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. 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.
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.

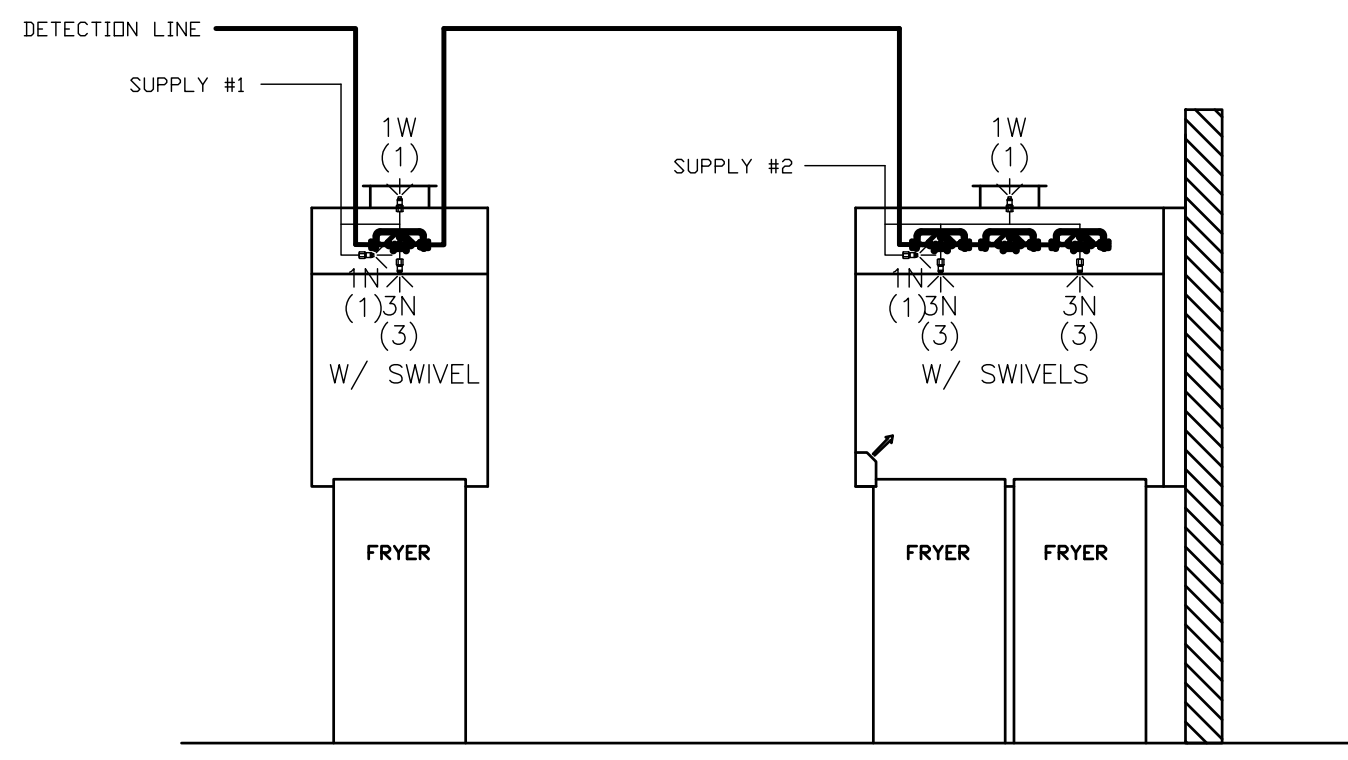
FOR REFERENCE ONLY

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

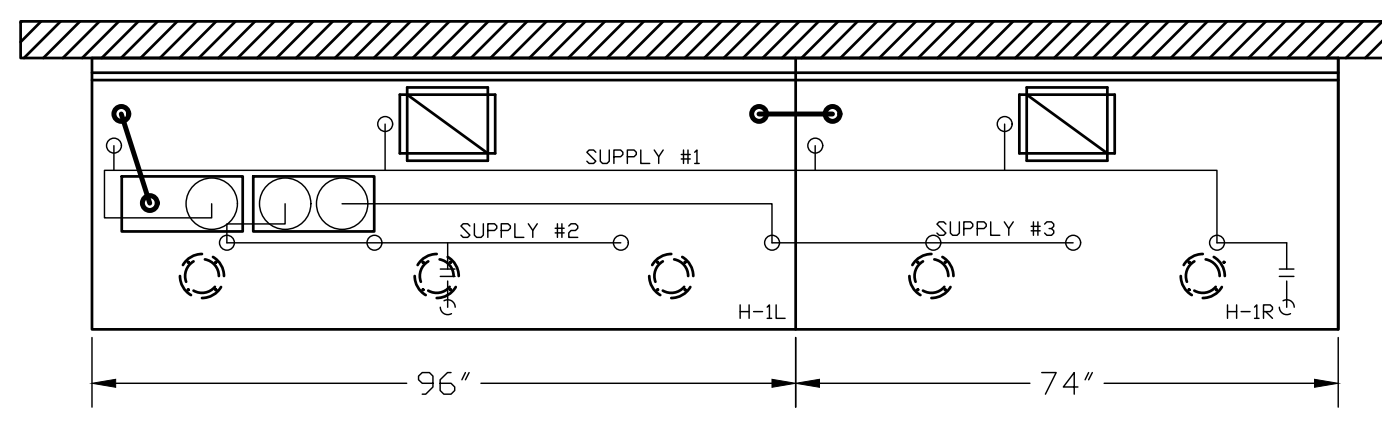


ANSUL R-102 FIRE SYSTEM
 (1) REGULATED RELEASE
 (2) EXTRA MICRO SWITCH ASSEMBLIES (MOUNTED IN REG. REL.)
 (3) SINGLE TANK ENCLOSURE
 (2) 3 GALLON TANK

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 DRIPS

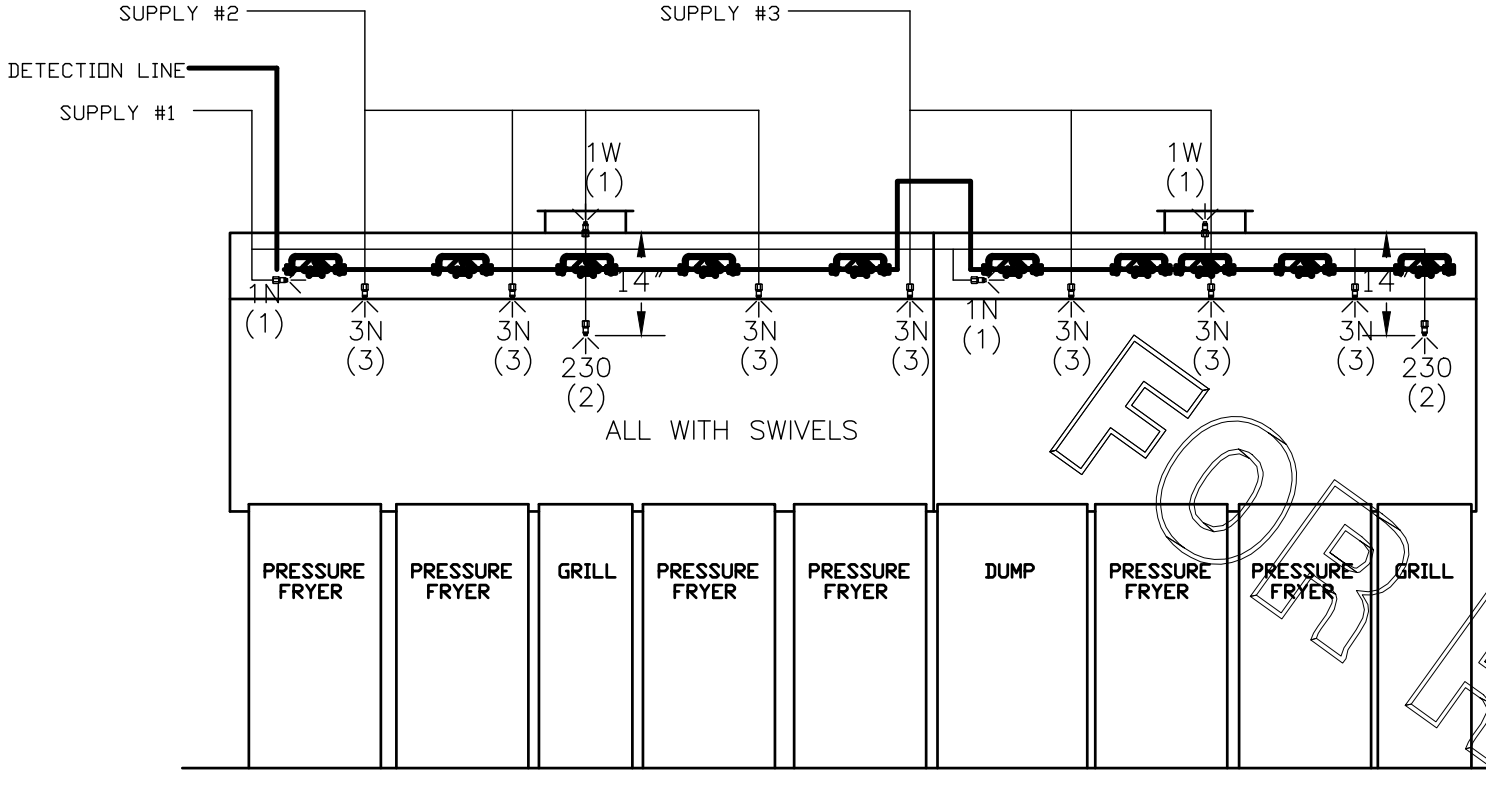


ANSUL R-102 FIRE SYSTEM LAYOUT



ANSUL R-102 FIRE SYSTEM
 (1) REGULATED RELEASE
 (2) EXTRA MICRO SWITCH ASSEMBLIES (MOUNTED IN REG. REL.)
 (3) DOUBLE TANK ENCLOSURE
 (3) 3 GALLON TANKS

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



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	10	APPLIANCE NOZZLES	30

TOTAL FLOW POINTS - 42

ITEM #	QTY	DESCRIPTION
#200	12	SERIES DETECTORS W/ FUSIBLE LINKS
#201	2	TERMINAL DETECTOR W/ FUSIBLE LINKS
#202	2	REGULATED RELEASE W/ DOUBLE POLE MICRO SWITCH
#203	5	3 GALLON TANKS
#204	1	SINGLE TANK ENCLOSURE
#205	1	DOUBLE TANK ENCLOSURE
#206	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 POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECALCULATION ENHAUST AIRFLOW MAY BE REQUIRED.
 REVISE AND RESUBMIT
 APPROVED FOR FABRICATION
 WITH NO CHANGES
 WITH CHANGES AS NOTED



MAIL APPROVED DRAWINGS TO: APPROPRIATE FACTORY BELOW:		WEBSITE: WWW.HALTONCOMPANY.COM	
HALTON CO. (CANADA) 1021 BREIK PLACE MISSISSAUGA ON L4W 3R7 1-905-624-0301	HALTON CO. (USA) 101 INDUSTRIAL DRIVE SCOTTSDALE, KY 42164 1-270-237-5600	BY	DATE
1			
2			
3			
4			
5			
6			
7			

PROJECT: CHICK-FIL-A #1920
 MONTROSE

LOCATION: FAIRLAWN, OH
 DRAWN BY: AF DATE: 03.19.20
 SCALE: NTS
 Halton Dwg: U20-285-02

Sheet **MHI.2**

Halton
 CARE FOR INDOOR AIR

FOR REFERENCE ONLY

APPROVED BY _____ DATE _____