

- KEY NOTES**
11. INSTALL PACKAGE ROOFTOP UNIT PROVIDED BY KROGER ON ROOF CURB IN LOCATION SHOWN. COORDINATE EXACT LOCATION AND DUCT DROPS WITH STRUCTURAL MEMBERS. PROVIDE FULL SIZE DUCT DROPS THROUGH CURB AND SEAL ALL OPENINGS AIR AND WATER TIGHT. REFER TO HSD-10 ON M5.1.
 12. INSTALL EXHAUST FAN PROVIDED BY KROGER ON ROOF CURB IN LOCATION SHOWN. COORDINATE EXACT LOCATION AND DUCT DROPS WITH STRUCTURAL MEMBERS. PROVIDE FULL SIZE DUCT DROPS THROUGH CURB AND SEAL ALL OPENINGS AIR AND WATER TIGHT. REFER TO MECHANICAL HOOD DETAIL SHEETS FOR FURTHER INFORMATION. REFER TO DETAIL 6 ON M5.2.
 13. REFRIGERATION RACK AND EQUIPMENT. COORDINATE SIZE AND EXACT LOCATION WITH REFRIGERATION CONTRACTOR AND STRUCTURAL ELEMENTS. REFER TO REFRIGERATION DRAWINGS FOR EXACT LOCATION.
 14. INSTALL ALL FLUES AND EXHAUST FANS A MINIMUM OF 10'-0" FROM OUTSIDE AIR INTAKES.
 15. INSTALL MINI-SPLIT CONDENSING UNIT ON RACK IN LOCATION SHOWN. COORDINATE EXACT LOCATION WITH STRUCTURAL MEMBERS. PROVIDE PIPE PORTAL THROUGH ROOF FOR REFRIGERANT PIPING TO BE ROUTED THROUGH. SEAL ALL OPENINGS AIR AND WATER TIGHT. REFER TO HSD-11 ON M5.1.
 16. INSTALL DDAS UNIT BY KROGER ON ROOF CURB IN LOCATION SHOWN. COORDINATE EXACT LOCATION AND DUCT DROP WITH STRUCTURAL MEMBERS. PROVIDE FULL SIZE DUCT DROPS THROUGH CURB AND SEAL ALL OPENINGS AIR AND WATER TIGHT.

PAN WASHER FAN OR VENT KIT PROVIDED BY WASHER VENDOR INSTALLED BY CONTRACTOR. COORDINATE REQUIRED INSTALLATION PACKAGE WITH WASHER VENDOR. PROVIDED PROPER FLASHING FOR INSTALLATION AND PROVIDE BACKDRAFT DAMPER AS REQUIRED.

No.	Date	Revision
1	06/21/2024	ADDENDUM 1

Designed: SJM
 Drawn: CNP
 Checked: SJM
 Job No.: K9201.1
 Date: 05/23/2024 © 2024

MECHANICAL ROOF PLAN
Eaton, OH E. Jackson Road & N Barron Street Development
 1705 N Barron St. Eaton, Ohio 45320

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Sheet No.
M1.2.1

KEY NOTES

18. PROVIDE AND INSTALL DUCT MOUNTED SMOKE DETECTOR IN RETURN AIR STREAM. REFER TO SMOKE DETECTOR DETAIL FOR FURTHER INFORMATION. SMOKE DETECTOR SHALL SEND SIGNAL TO FIRE ALARM SYSTEM AND SHUTDOWN UNIT UPON DETECTION OF SMOKE IN AIRSTREAM.
20. TRANSITION DUCTWORK FROM FULL SIZE OF UNIT OPENING TO NECK SIZE OF DROP DIFFUSER INDICATED ON DRAWINGS. DIFFUSER TO BE BALANCED TO CFMS INDICATED. REFER TO HSD-1 ON M5.1 FOR DIFFUSER MOUNTING INFORMATION.
21. CONTRACTOR TO MOUNT TEMPERATURE SENSOR IN LOCATION SHOWN AT 4" AFF. PROVIDE AND ROUTE CONTROL WIRING FROM UNIT TO THERMOSTAT. COORDINATE EXACT LOCATION WITH KROGER EQUIPMENT PLACEMENT. PROVIDE CLEAR LOCKING PROTECTIVE COVER.
22. MECHANICAL EQUIPMENT LOCATED ON ROOF. COORDINATE EXACT UNIT PLACEMENT AND DUCT DROPS WITH STRUCTURAL ELEMENTS.
23. DUCTWORK TO BE ROUTED TIGHT TO BOTTOM OF STRUCTURE. INSTALL GRILLES @ 8'-0" AFF. FAN TO OPERATE CONTINUOUSLY DURING.
24. ROUTE DUCTWORK FULL SIZE OF CURB OPENING UP THROUGH ROOF. FAN TO OPERATE CONTINUOUSLY.
25. REFER TO CAPTIVEARE DRAWINGS FOR PRE-MANUFACTURED GREASE DUCT LAYOUT AND COORDINATE LAYOUT WITH FIELD CONDITIONS PRIOR TO PROCUREMENT.
26. COORDINATE DUCT ROUTING UP FROM OVEN EXHAUST TO EXHAUST FAN ON ROOF. COORDINATE EXACT ROUTING WITH FIELD CONDITIONS. REFER TO HSD-7 ON M5.1.
27. PROVIDE 2 WAY DIFFUSER FOR GRILLES NEAR KITCHEN EXHAUST HOOD TO PREVENT INTERFERENCE WITH HOOD PERFORMANCE.
28. PROVIDE REFRIGERANT LEAK DETECTION SENSOR ABOVE LIGHTS SWITCH AT MAIN ENTRY DOOR. COORDINATE EXACT LOCATION WITH LIGHT SWITCH INSTALLATION. PROVIDE WARNING PLACARD FOR SENSOR AND COORDINATE VERBIAGE WITH CLIENT. PROVIDE AUDIO/VISUAL MOUNTED ON EXTERIOR OF REFRIGERATED ROOM TO ALARM WHEN SENSOR IS TRIPPED.

NOTE:
SUPPLY AND RETURN DUCTWORK SHALL BE
ACOUSTICALLY INSULATED FOR FIRST 10'-0" FROM
ROOFTOP UNIT CONNECTION.



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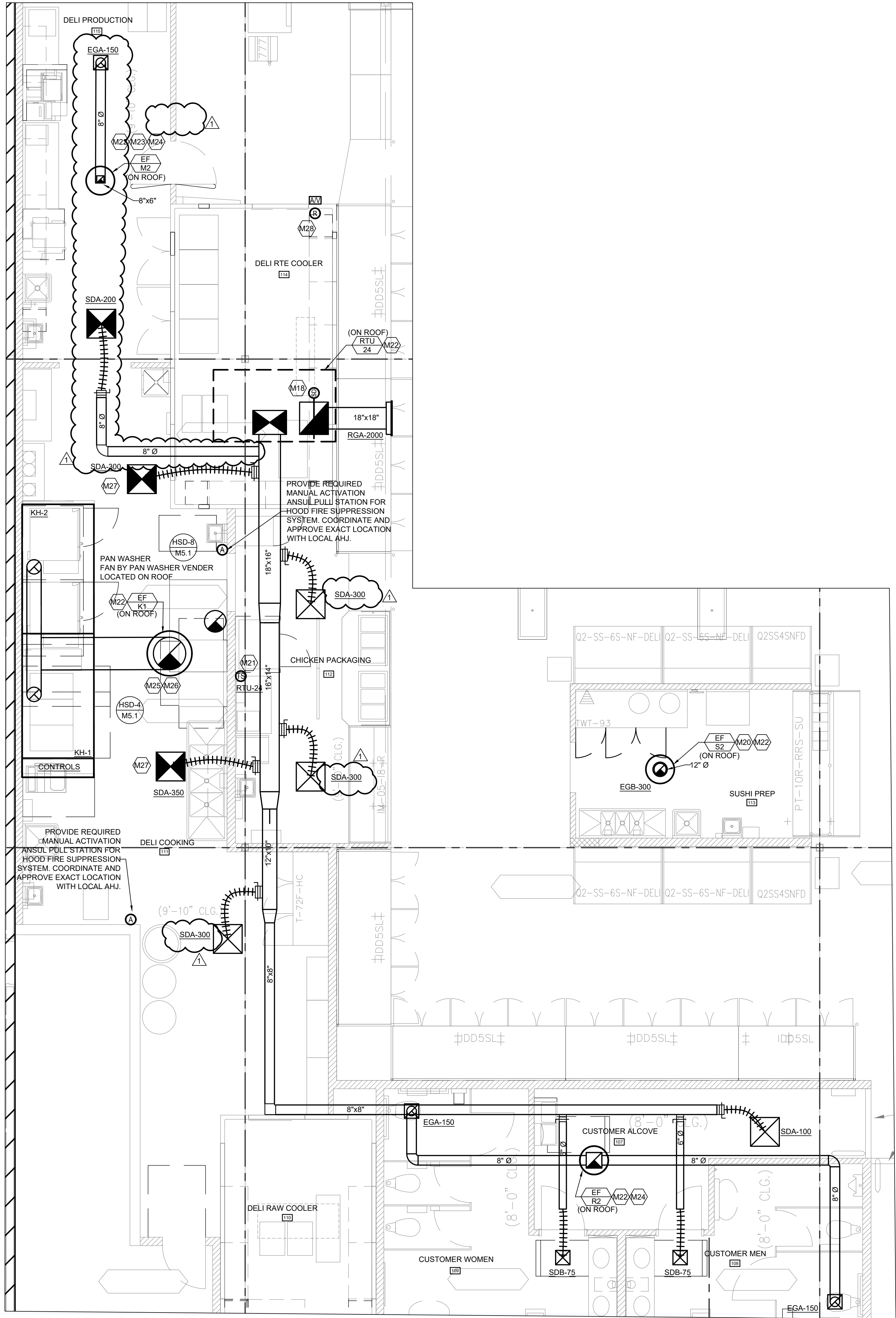
No.	Date	Revision
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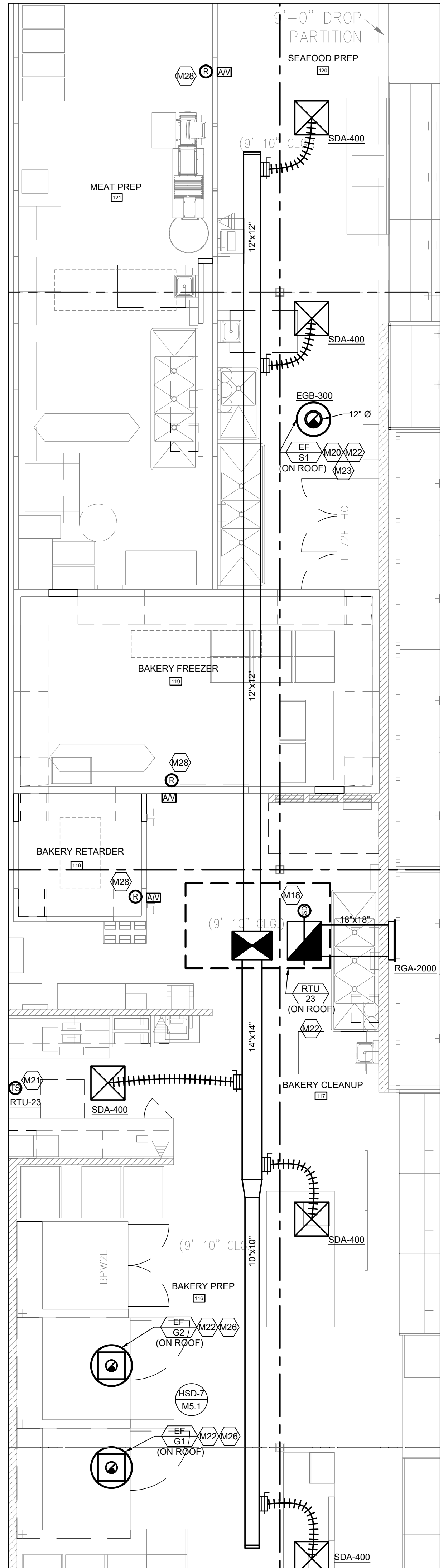
MECHANICAL ENLARGED PLAN
Eaton, OH E. Jackson Road & N Barron
Street Development
1705 N Barron St. Eaton, Ohio 45320

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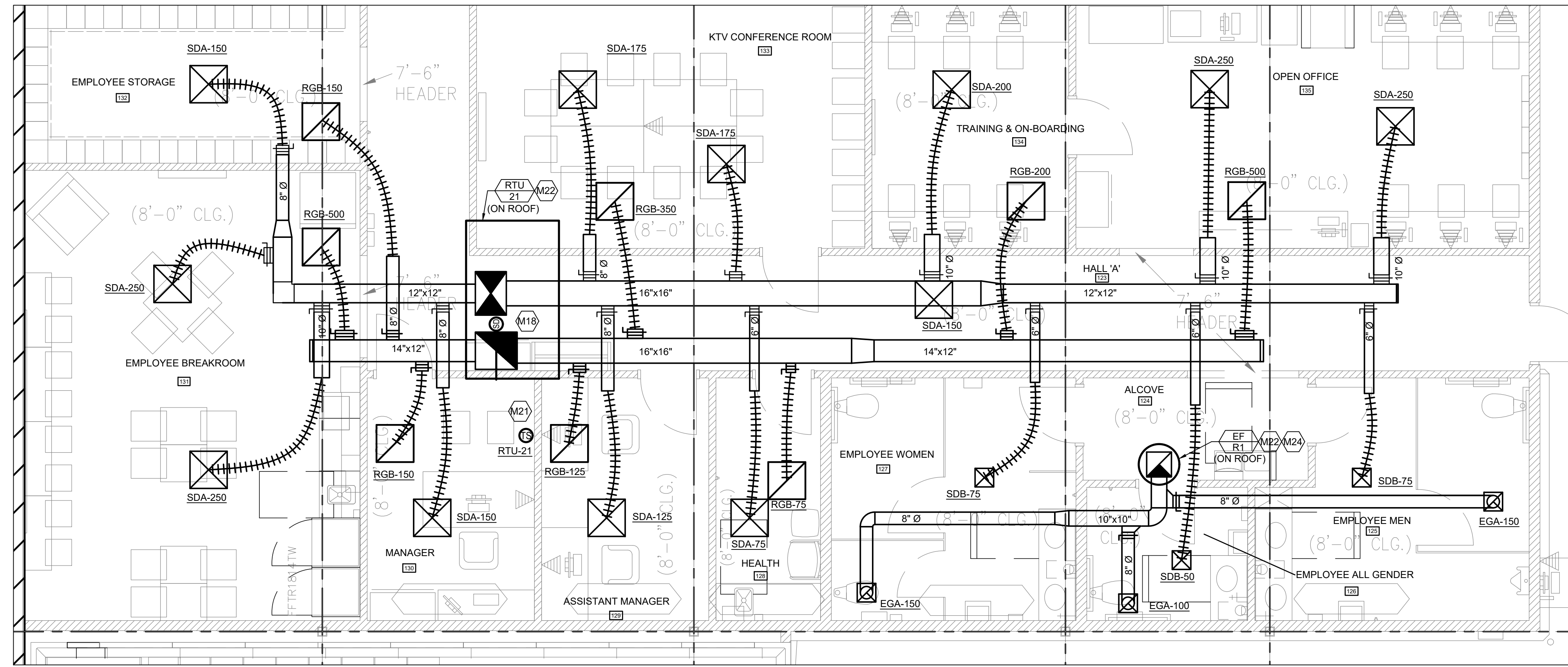
Sheet No.
M4.1



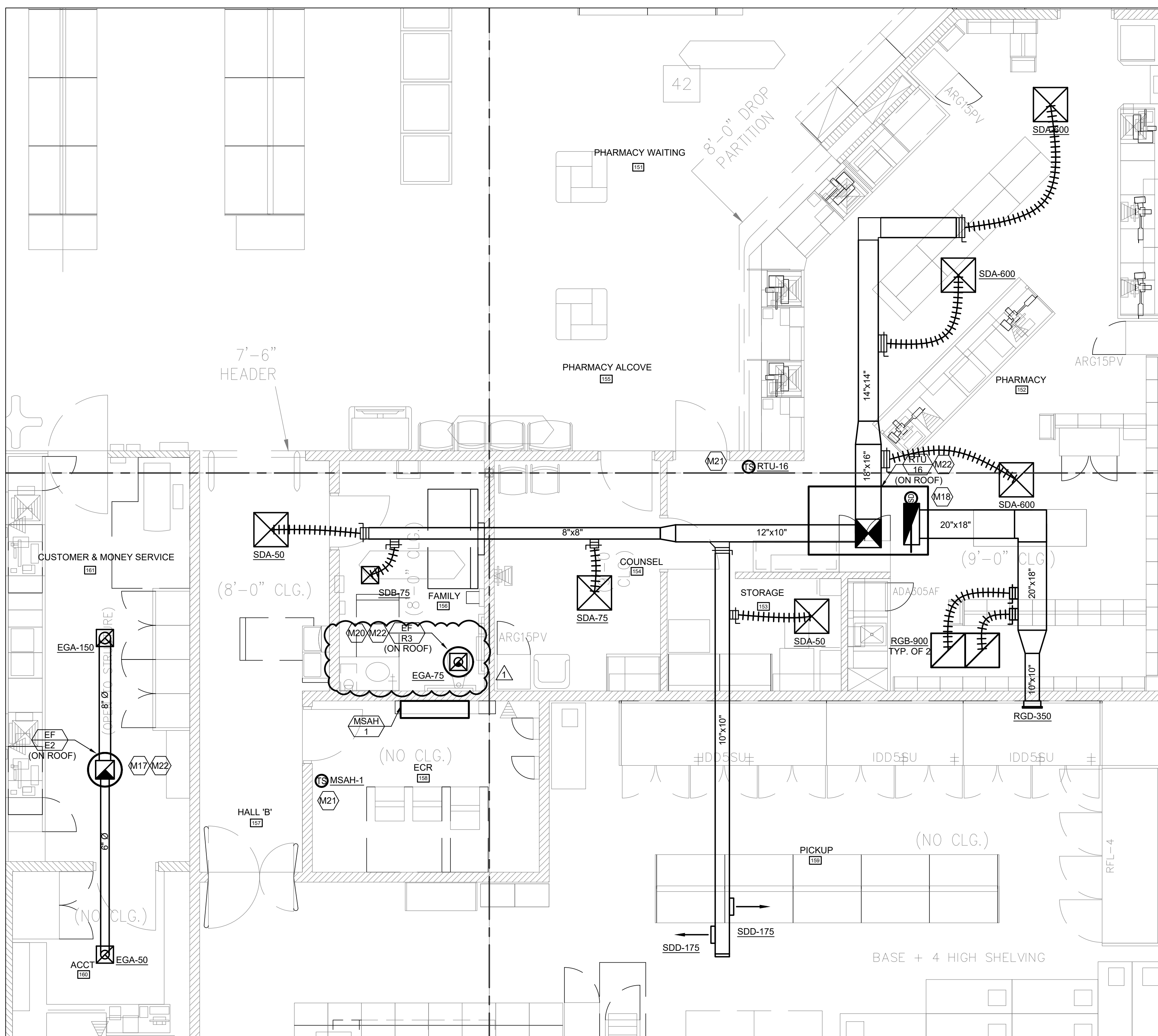
1 MECHANICAL ENLARGED PLAN
SCALE: 1/4"=1'-0"



2 MECHANICAL ENLARGED PLAN
SCALE: 1/4"=1'-0"



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



2 MECHANICAL ENLARGED PLAN
SCALE: 1/4" = 1'-0"

KEY NOTES

17. PROVIDE EXHAUST AIR DUCTWORK ROUTED FROM DIFFUSERS UP TO FAN ON ROOF. ROUTE DUCTWORK @ 9'-6" TO MINIMIZE VISIBILITY FROM SALES FLOOR. TRANSITION DUCTWORK IN VERTICAL TO FULL SIZE OF FAN OPENING. FAN TO OPERATE BASED ON INPUT FROM TEMPERATURE SENSOR TO ENERGIZE FAN WHEN SPACE EXCEEDS 80F.
18. PROVIDE AND INSTALL DUCT MOUNTED SMOKE DETECTOR IN RETURN AIR STREAM. REFER TO SMOKE DETECTOR DETAIL FOR FURTHER INFORMATION. SMOKE DETECTOR SHALL SEND SIGNAL TO FIRE ALARM SYSTEM AND SHUTDOWN UNIT UPON DETECTION OF SMOKE IN AIRSTREAM.
20. TRANSITION DUCTWORK FROM FULL SIZE OF UNIT OPENING TO NECK SIZE OF DROP DIFFUSER INDICATED ON DRAWINGS. DIFFUSER TO BE BALANCED TO CFMS INDICATED. REFER TO HSD-1 ON MS.1 FOR DIFFUSER MOUNTING INFORMATION.
21. CONTRACTOR TO MOUNT TEMPERATURE SENSOR IN LOCATION SHOWN AT 4'-0" AFF. PROVIDE AND ROUTE CONTROL WIRING FROM UNIT TO THERMOSTAT. COORDINATE EXACT LOCATION WITH KROGER EQUIPMENT PLACEMENT. PROVIDE CLEAR LOCKING PROTECTIVE COVER.
22. MECHANICAL EQUIPMENT LOCATED ON ROOF. COORDINATE EXACT UNIT PLACEMENT AND DUCT DROPS WITH STRUCTURAL ELEMENTS.
24. ROUTE DUCTWORK FULL SIZE OF CURB OPENING UP THROUGH ROOF. FAN TO OPERATE CONTINUOUSLY.



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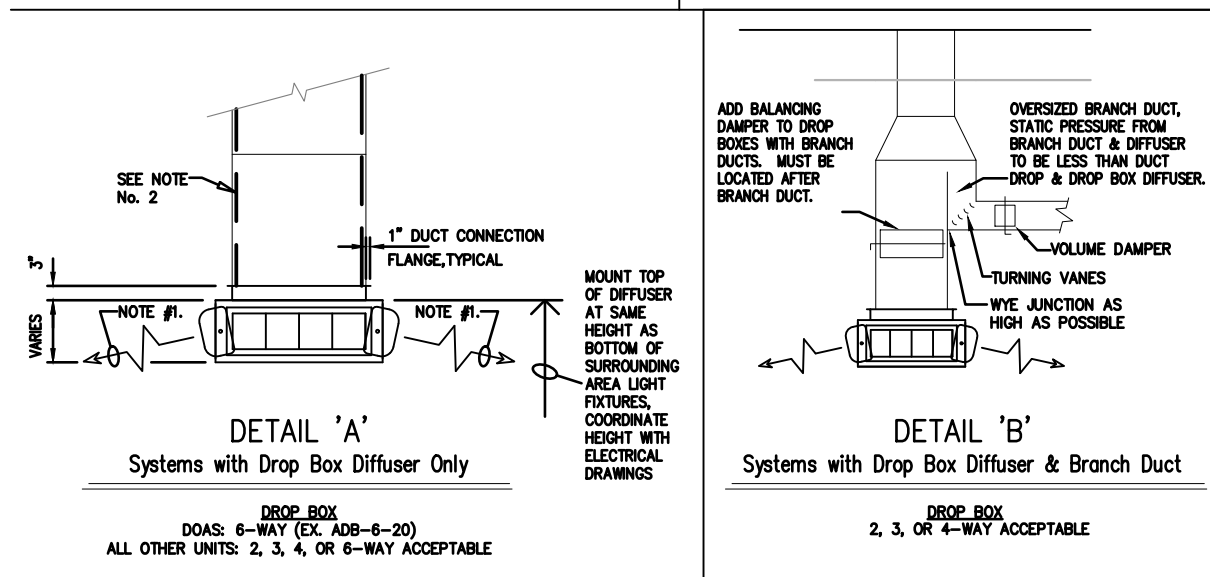
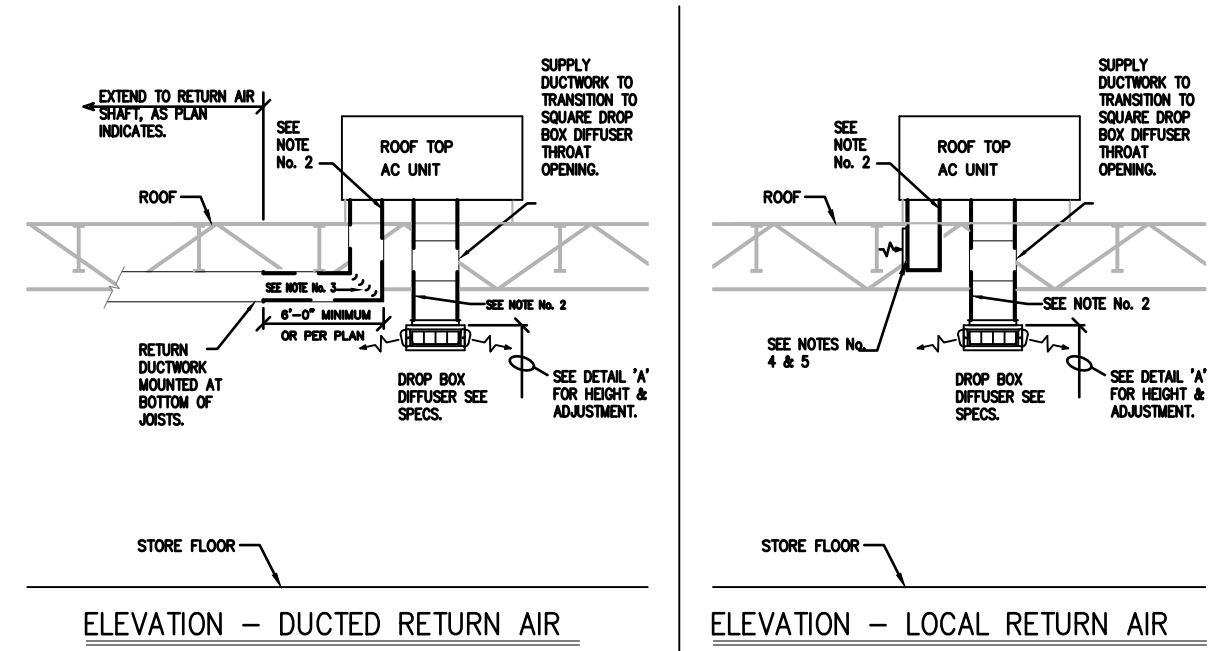
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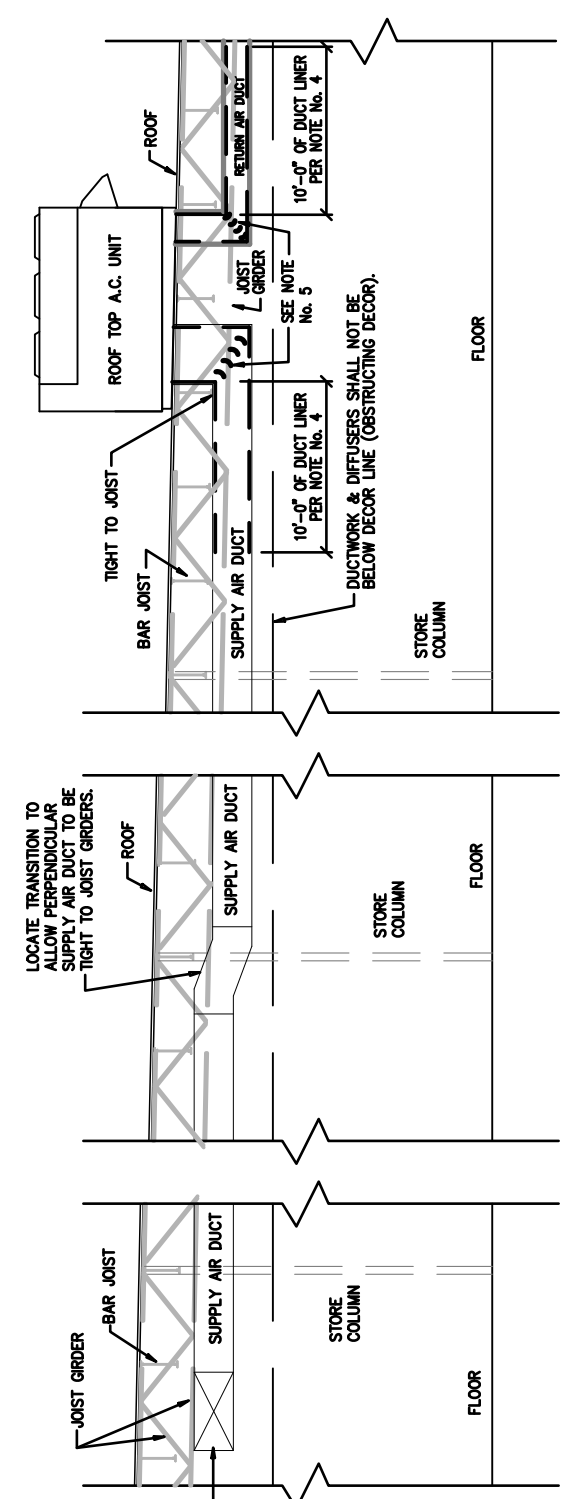
Sheet No.
M4.2



NOTE:
 1. EACH DIFFUSER LOWER ANGLE OF DEFLECTION MUST BE ADJUSTED TO THE SUPPLY AIR FLOW. DO NOT EXCEED 90 DEGREE ANGLE OF DEFLECTION. EXCEEDING THIS ANGLE WILL CAUSE AIR FLOW TO BE DEFLECTED AWAY FROM THE FACE OF THE DIFFUSER. EXCEEDING THIS ANGLE WILL CAUSE AIR FLOW TO BE DEFLECTED AWAY FROM THE FACE OF THE DIFFUSER. EXCEEDING THIS ANGLE WILL CAUSE AIR FLOW TO BE DEFLECTED AWAY FROM THE FACE OF THE DIFFUSER.
 2. PROVIDE SUPPLY & RETURN AIR DUCTWORK WITH UNLES, SEE SPECIFICATIONS.
 3. PROVIDE TURNING VANES IN ALL RECTANGULAR 90 DEGREE DUCT TURNED ELBOWS.
 4. RETURN AIR SHALL BE IN THE FACE OF DUCT DUCT TO BE THE SIDE OF THE DUCTWORK TO BE IN THE FACE OF THE DUCTWORK TO BE IN THE FACE OF THE DUCTWORK.
 5. RETURN AIR SHALL BE IN THE FACE OF DUCT DUCT TO BE THE SIDE OF THE DUCTWORK TO BE IN THE FACE OF THE DUCTWORK.

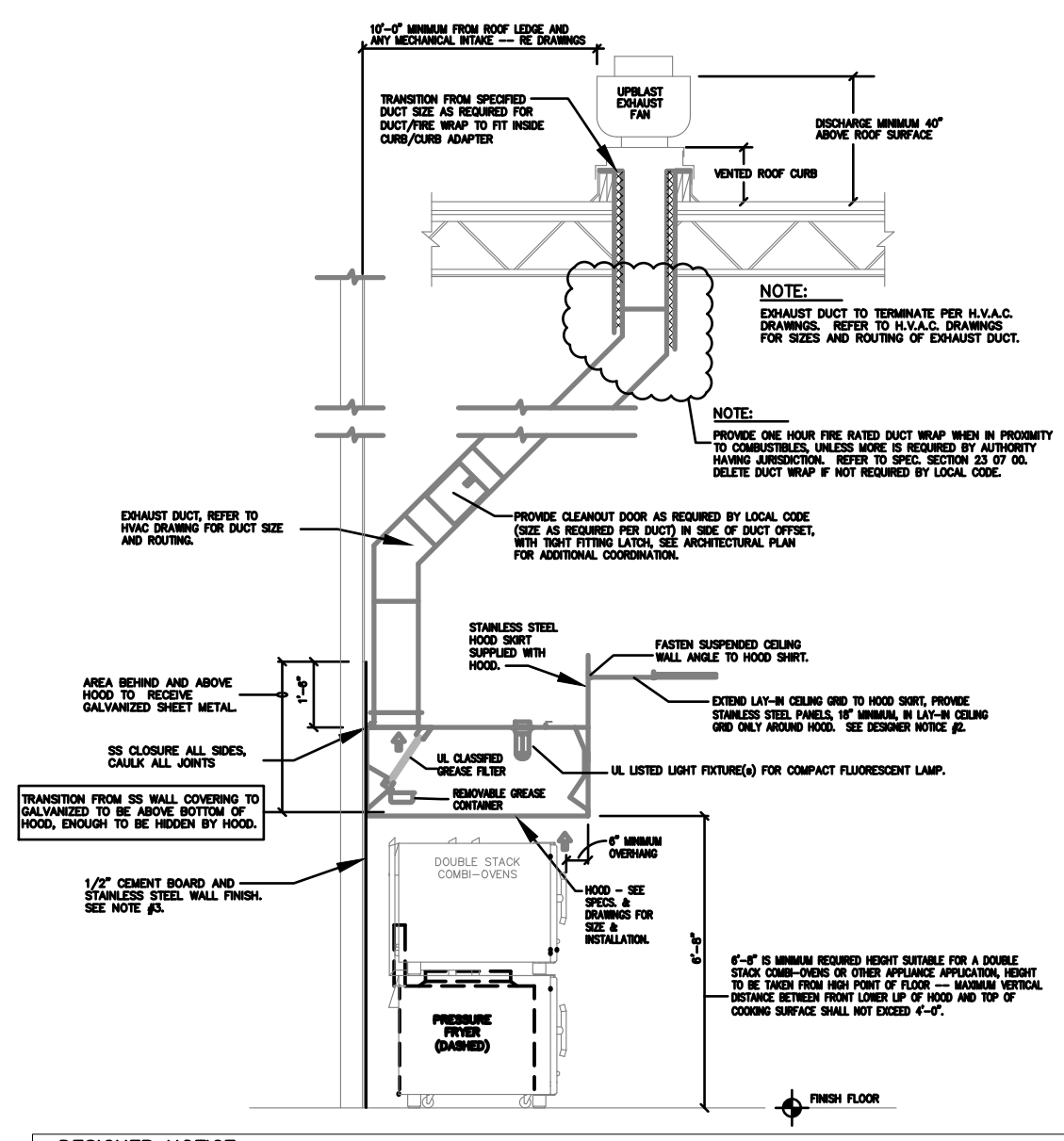
DROP BOX DIFFUSER
 MASTER SPECIFICATION DETAILS
 HSD-1
 DATE: 5/15/19
 SCALE: NONE
 DRAWN: ZAW

ORIGINAL ISSUE DATE 2/20/06



MAIN DUCT ELEVATION
 MASTER SPECIFICATION DETAILS
 HSD-3
 DATE: 9/22/10
 SCALE: NONE
 DRAWN: JFQ

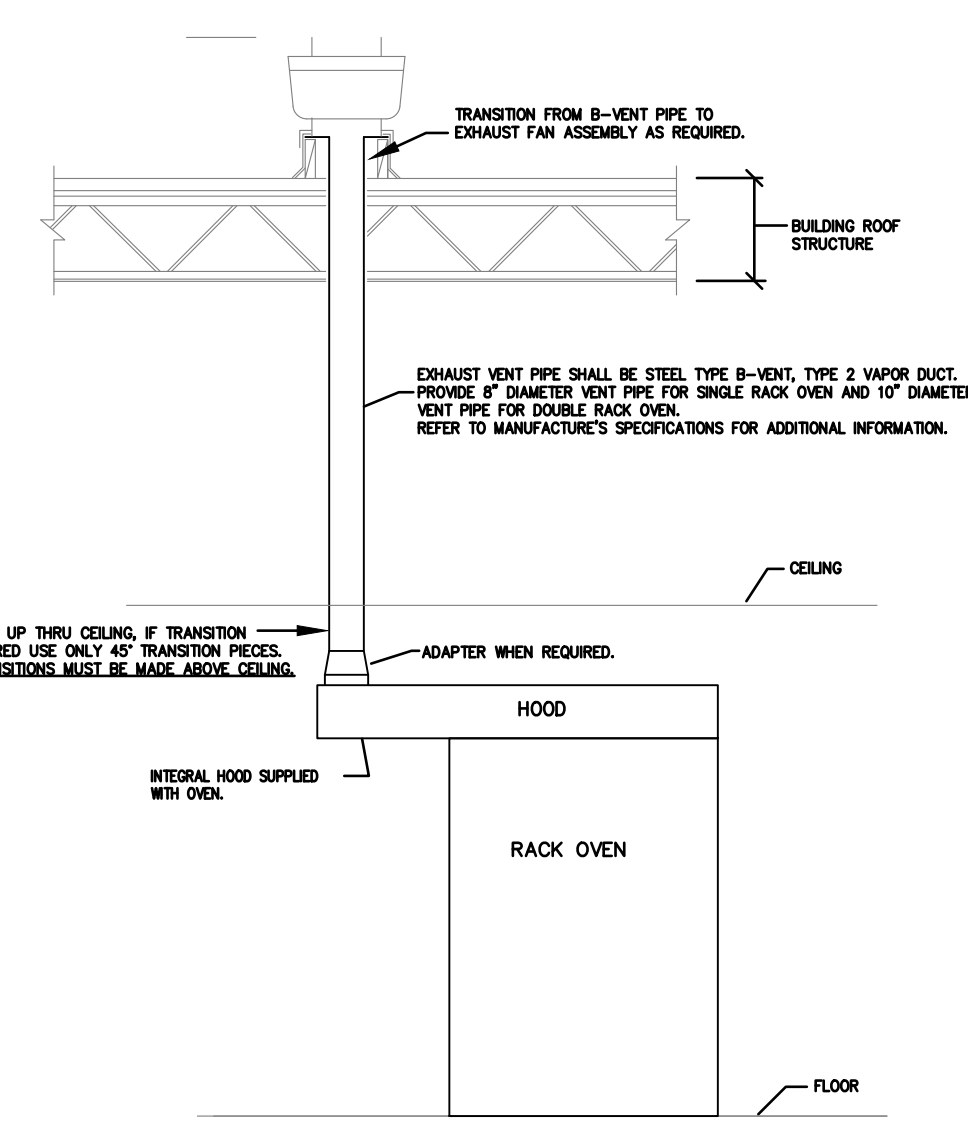
ORIGINAL ISSUE DATE 10/2/06



DESIGNER NOTICE:
 1. BE CAREFUL OF AIR DISTRIBUTION TYPE AND PROXIMITY TO HOOD. AIR CURRENTS FROM AIR DISTRIBUTION DEVICES CAN CAUSE PROPER HOOD OPERATION.
 2. REFER TO SPEC SECTION 05 50 00 METAL FABRICATIONS FOR INFORMATION REGARDING GAUGE, FINISH AND INSTALLATION OF STAINLESS STEEL WALL COVERING AND STAINLESS STEEL CEILING TILE.
 3. METALS 1/2" GIBBY BOARD OR METAL STEEL WALL EXTENDING A MINIMUM 18" ABOVE AND EXTENDING EXHAUST HOOD SIDES. INSTALL STAINLESS STEEL WALL COVERING OVER EXISTING BOARD AREA OF WALL, THE WIDTH OF THE HOOD. THE 18" OF WALL SHOULD UNDER AND BEYOND THE EDGE OF THE HOOD CAN ONLY BE COVERED WITH NONCOMBUSTIBLE MATERIAL SUCH AS CERAMIC TILE. ADDITIONAL 36" WALL COVERING OR GALVANIZED SHEET METAL.
 4. REFER TO HSD-4A OR HSD-4B AS INDICATED FOR ADDITIONAL INFORMATION.
 5. SINGLE STACK OVERS WILL HAVE MORE CLEARANCE BETWEEN TOP OF OVERS AND BOTTOM OF HOOD.

DELI-BAKERY EXHAUST HOOD INSTALLATION
 MASTER SPECIFICATION DETAILS
 HSD-4
 DATE: 5/15/19
 SCALE: NONE
 DRAWN: ZAW

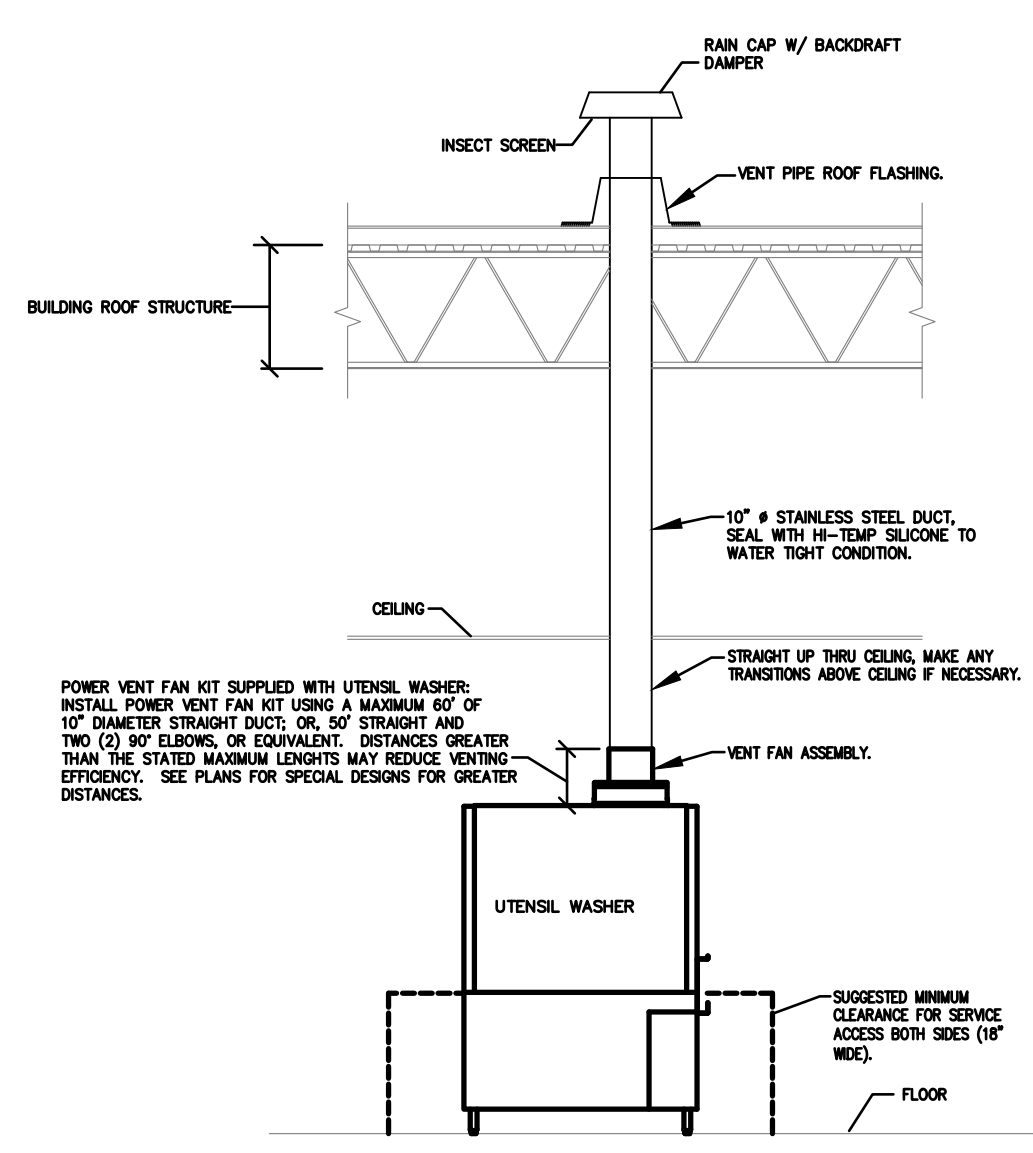
ORIGINAL ISSUE DATE 6/1/07



Notes:
 1. ALL DELI/BAKERY HOOD EXHAUST FANS SHALL BE 18"-0" HORIZONTALLY OR 3'-0" VERTICALLY FROM ANY PARALLEL WALL. COORDINATE WITH LOCAL & STATE CODES.

BAKERY RACK OVEN EXHAUST
 MASTER SPECIFICATION DETAILS
 HSD-7
 DATE: 10/11/12
 SCALE: NONE
 DRAWN: ZAW

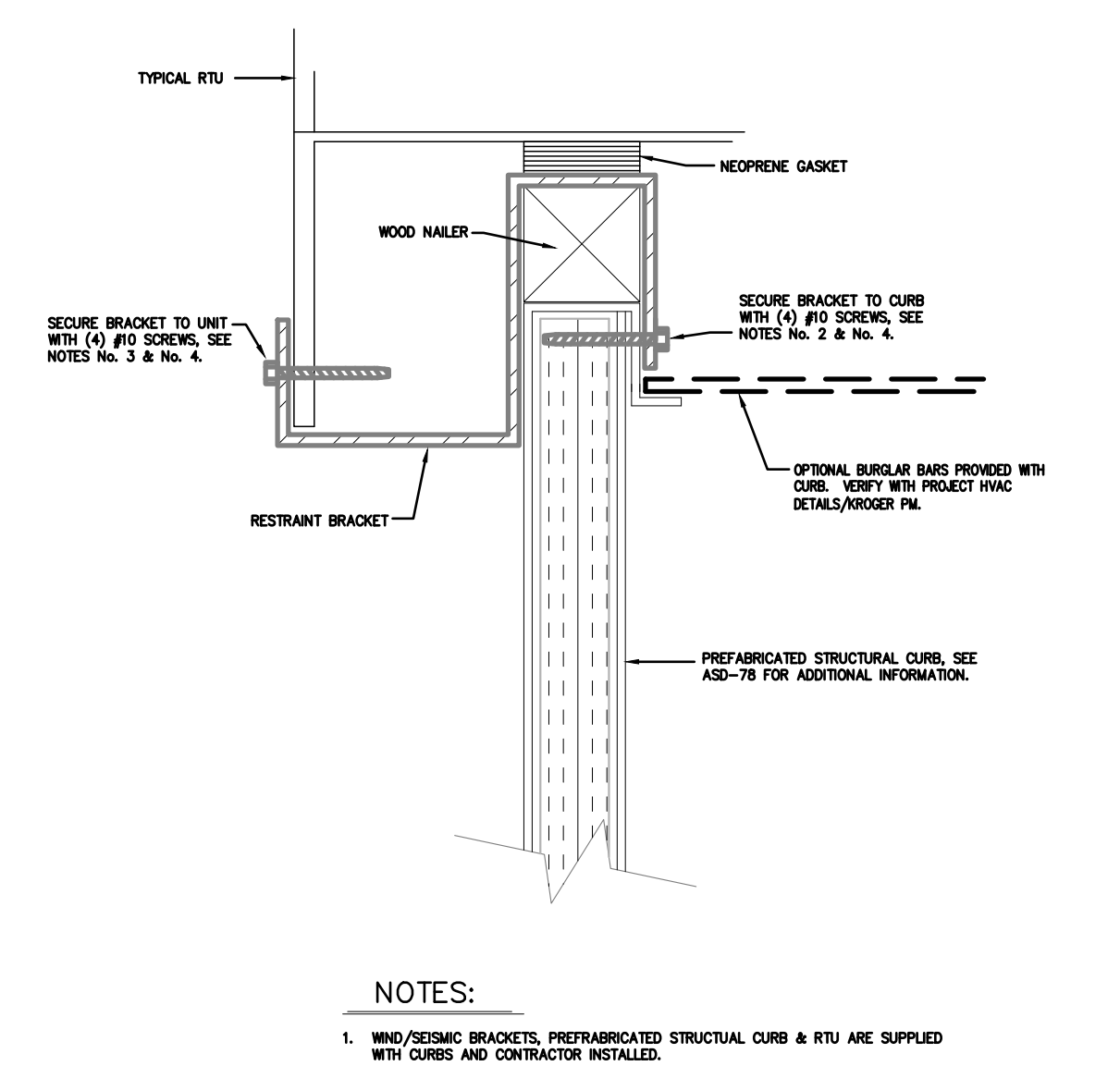
Notice:
 Date Based on Baker Single Rack Oven & Double Rack Oven.
 ** Refer to Manufacturer's Installation Details for Additional Information.
 ORIGINAL ISSUE DATE 1/30/09



NOTES:
 1. ALL VENT COMPONENTS AND ROOF FLASHING ARE CONTRACTOR PROVIDED AND INSTALLED.
 2. CONTRACTOR TO COORDINATE WIRING EXHAUST FAN IN VENT KIT TO THE UTENSIL WASHER.
 3. ALL DUCT MATERIALS INCLUDING DUCT, RANGING, INSERT SCREENS AND OTHER CONNECTIONS TO BE TYPE 304 STAINLESS STEEL.
 4. IN AREAS WHERE LOCAL CODES REQUIRE EXHAUST HOODS FOR UTENSIL WASHER, POWER VENT FAN KIT.

UTENSIL WASHER EXHAUST
 MASTER SPECIFICATION DETAILS
 HSD-8
 DATE: 11/10/16
 SCALE: NONE
 DRAWN: ZAW

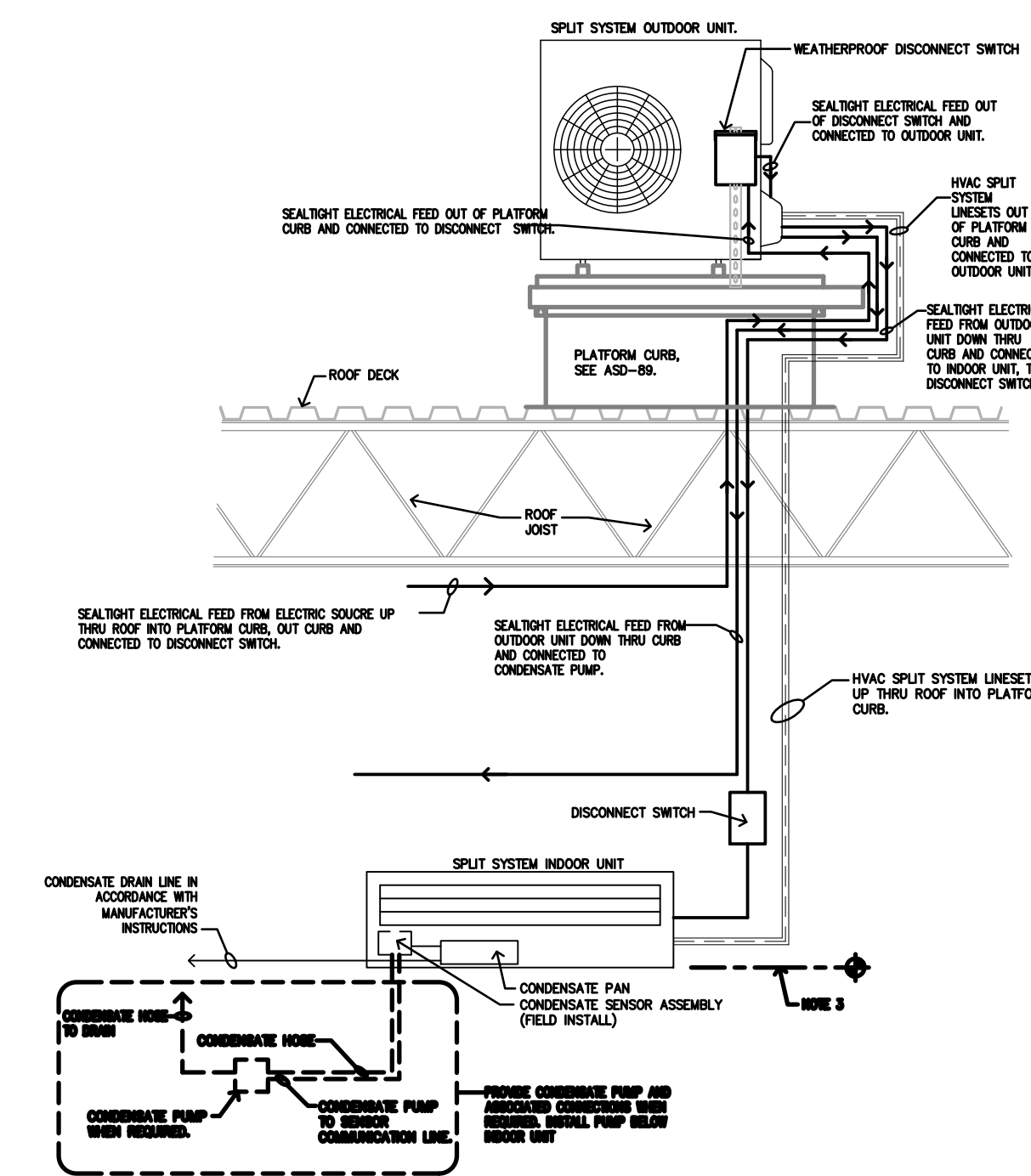
Notice:
 Detail Based on Inert 1200Series/Flux Washer.
 ** Refer to Manufacturer's Installation Details for Additional Information.
 ORIGINAL ISSUE DATE 1/30/09



NOTES:
 1. WIND/SEISMIC BRACKETS, PREFABRICATED STRUCTURAL CURB & RTU ARE SUPPLIED WITH CURBS AND CONTRACTOR INSTALLED.
 2. ATTACH BRACKET TO INSIDE TOP OF CURB USING TEN SCREWS SUPPLIED AS SHOWN - ATTACH MOUNTING BRACKET TO CURB BEFORE MOUNTING UNIT ON CURB.
 3. AFTER SETTING UNIT ON CURB, ATTACH BOTTOM OF BRACKET TO BASE RAIL ON UNIT WITH TEN SCREWS SUPPLIED AS SHOWN.
 4. BRACKETS AND ATTACHMENT SCREWS ARE PROVIDED WITH EACH CURB AND INCLUDE: (8) 1/4" DIA. STEEL ATTACHMENT BRACKETS; (8) 1/2" DIA. SCREWS; PROVIDE DOUBLE NUMBER OF SCREWS; THREE BRACKETS ON EACH LONG SIDE OF CURB EQUALLY SPACED.
 5. (8) BRACKETS ON "D" CABINET ONLY.

RTU WIND-SEISMIC RESTRAINT BRACKET
 MASTER SPECIFICATION DETAILS
 HSD-10
 DATE: 11/15/17
 SCALE: NONE
 DRAWN: ZAW

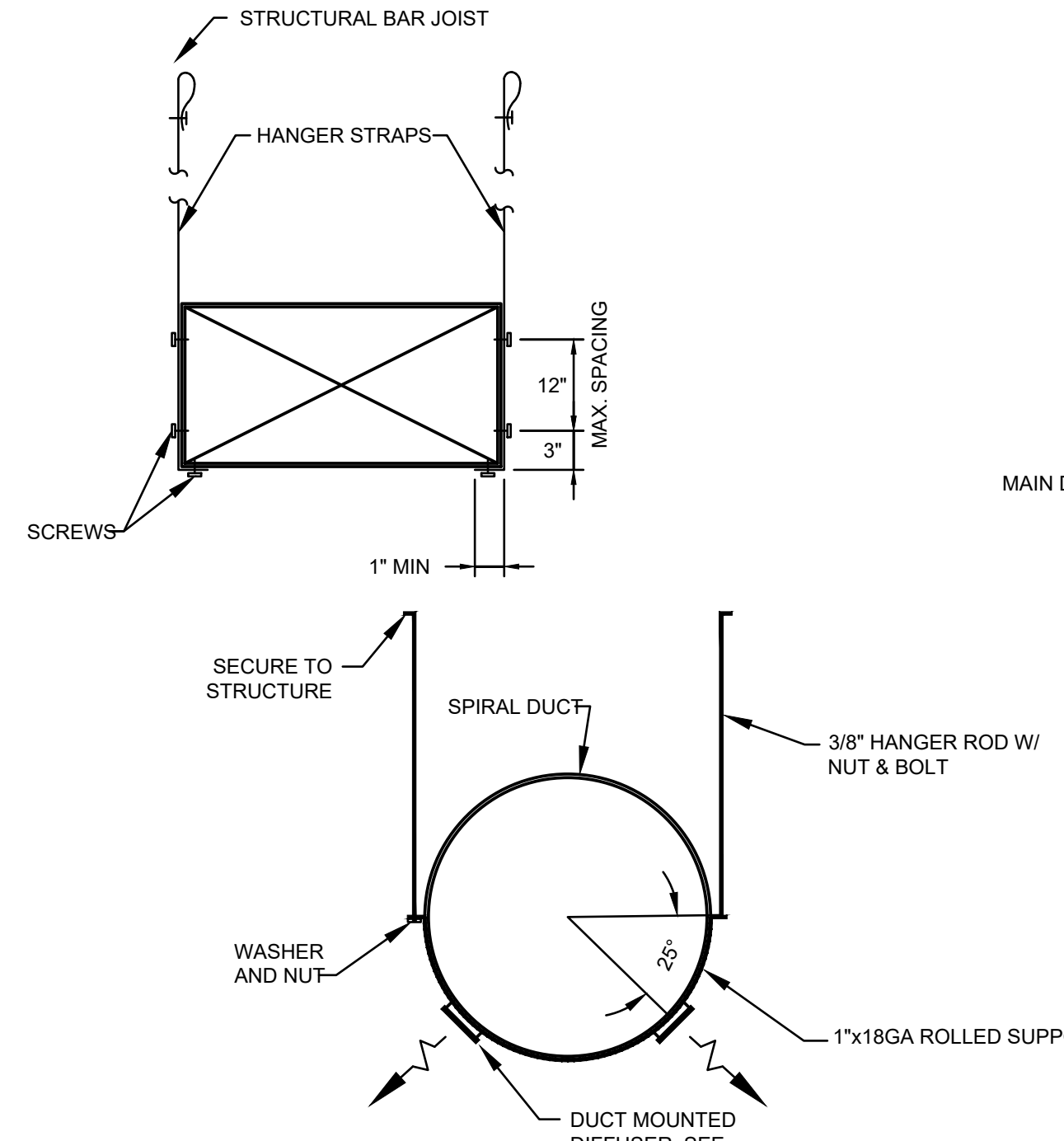
Bracket Isometric
 ORIGINAL ISSUE DATE 10/1/09



NOTES:
 1. REFER TO ASD-8S FOR PLATFORM CURB INSTALLATION AND ADDITIONAL INFORMATION.
 2. SPLIT SYSTEM'S MANUFACTURERS AND MODELS VARY. REFERENCE MANUFACTURER'S INSTALLATION GUIDE FOR ADDITIONAL INFORMATION.
 3. SPLIT SYSTEMS TO BE OPERATED AT 240V. IN REMEDIATION, UNIT MUST BE OPERATED AT 240V AT ALL TIMES UNLESS OTHERWISE SPECIFIED.

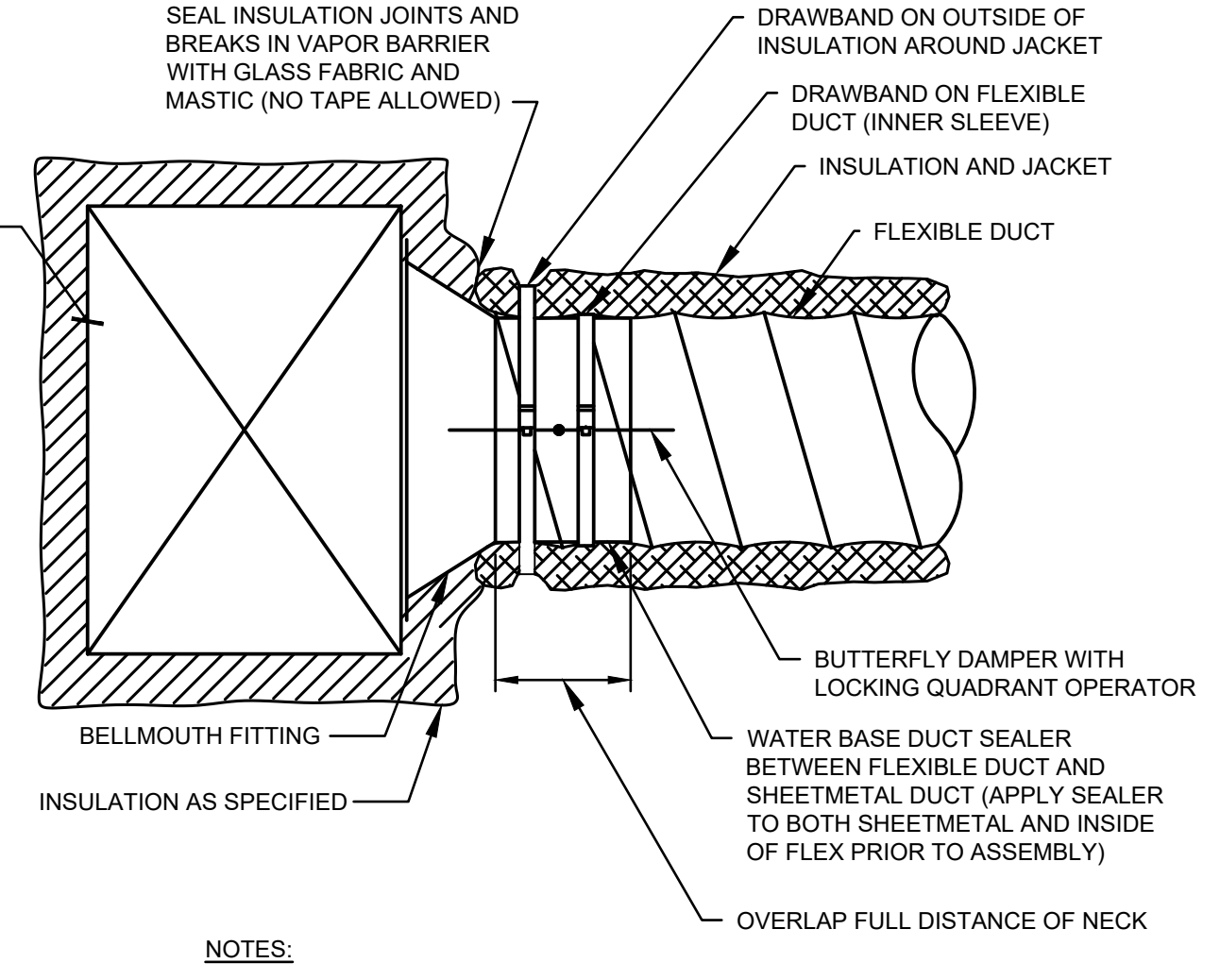
HVAC SPLIT SYSTEM DIAGRAM
 MASTER SPECIFICATION DETAILS
 HSD-11
 DATE: 9/8/23
 SCALE: NONE
 DRAWN: KAP

ORIGINAL ISSUE DATE 3/11/11



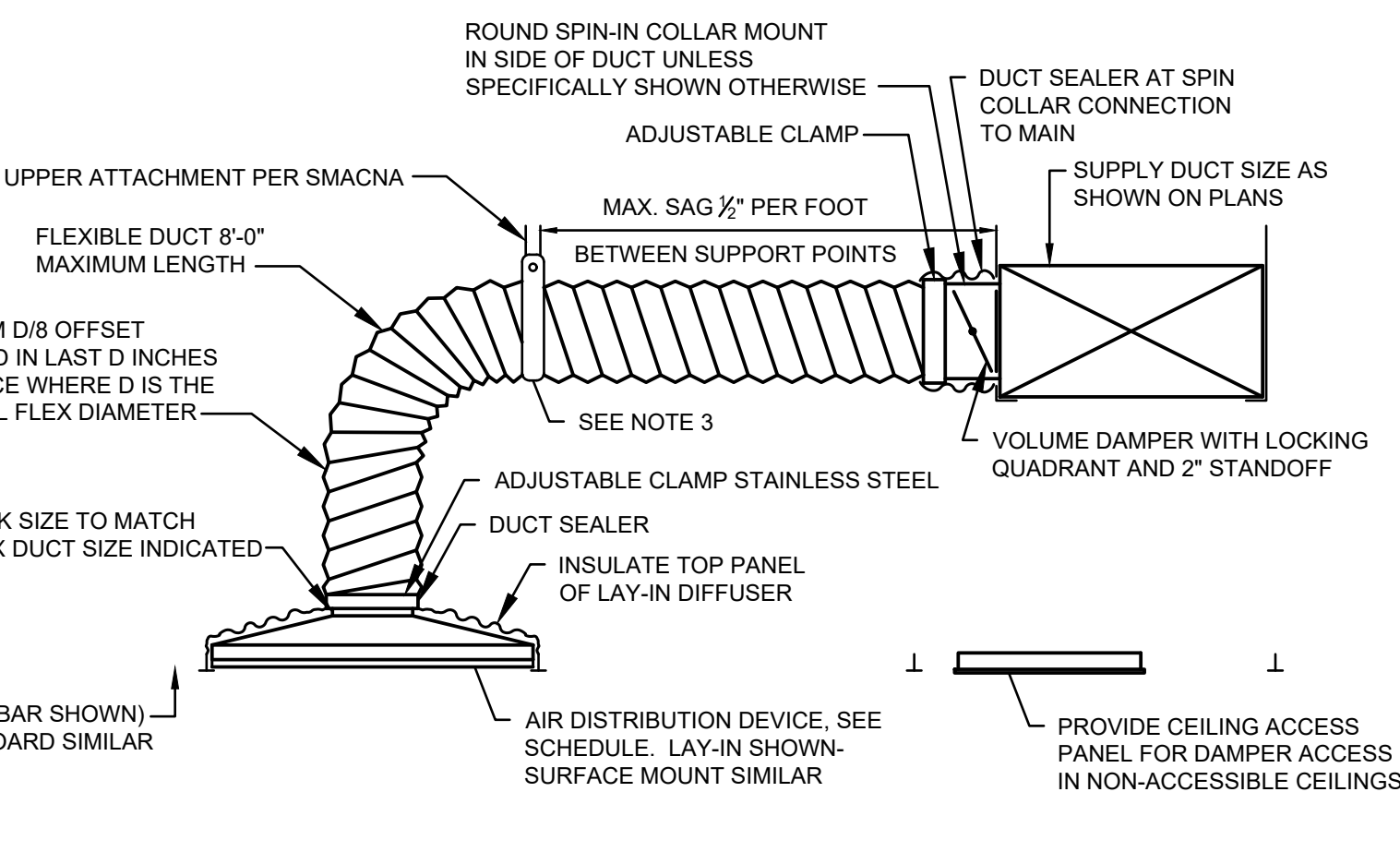
NOTES:
 1. MAXIMUM SPACING BETWEEN HANGER LOCATIONS SHALL BE 8'-0" PER PAIR.
 2. STRAPS SHALL BE MINIMUM 1 1/2" x 22 GAGE GALVANIZED STEEL.
 3. REFER TO SMACNA FOR ADDITIONAL REQUIREMENTS.

1 DUCTWORK SUPPORT DETAIL
 NTS



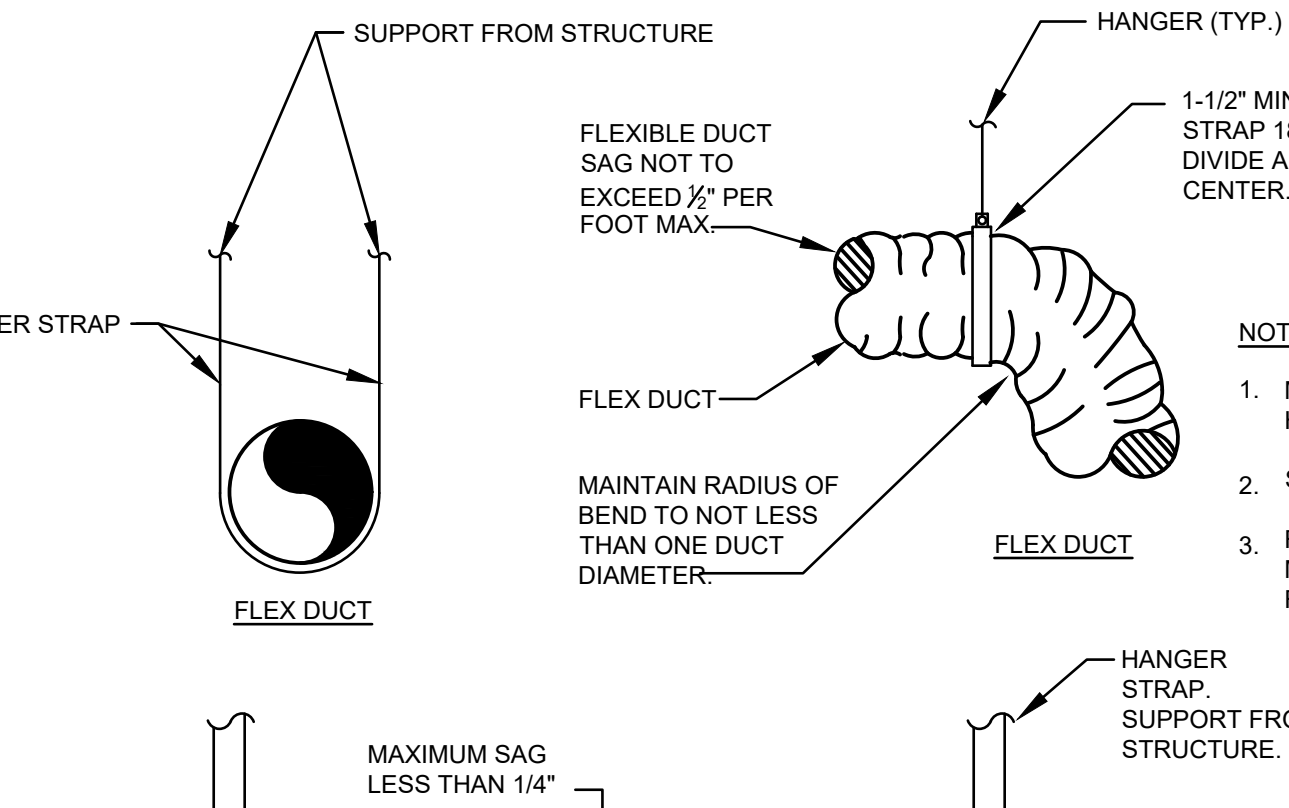
NOTES:
 1. TYPICAL FOR: LOW PRESSURE AND HIGH PRESSURE CONNECTION TO MAIN DUCT, FAN TERMINAL UNITS, VARIABLE AIR VOLUME UNITS, AND DIFFUSERS.
 2. DRAWBANDS SHALL BE EQUIVALENT TO PANDUIT PLT-H.

2 FLEXIBLE DUCT CONNECTION DETAIL
 NTS



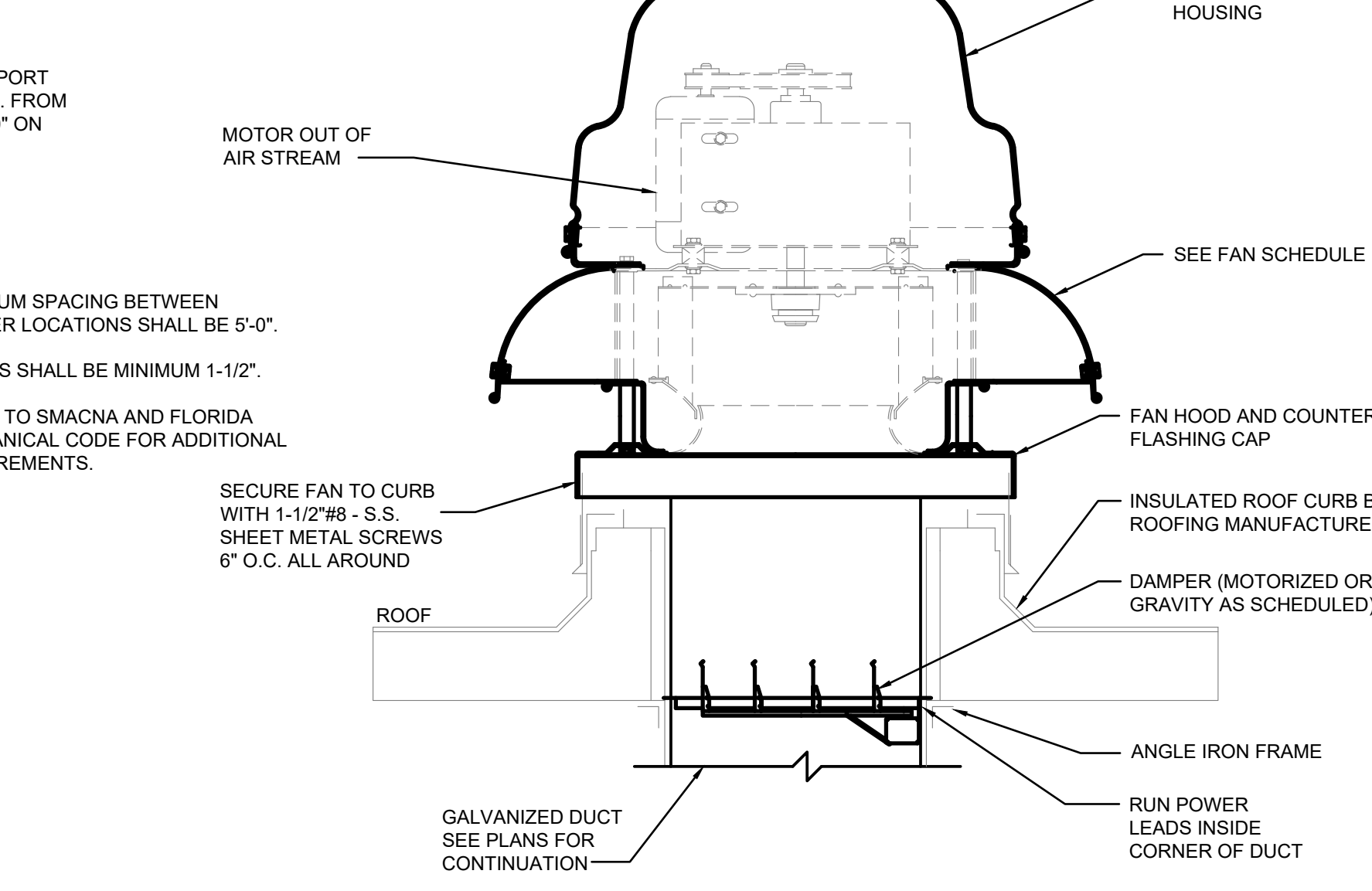
NOTES:
 1. FLEXIBLE DUCTS SHALL BE ONE-PIECE AND SHALL NOT BE SPLICED TOGETHER.
 2. EXTEND FLEXIBLE DUCT INSULATION TO DUCT/DIFFUSER PANEL INSULATION AND SEAL WITH MASTIC.
 3. MINIMUM 1-1/2" WIDE 22 GAUGE GALVANIZED STRAP HANGER WITH HEMMED EDGES PER SMACNA FIGURE 3-10.
 4. FLEXIBLE AIR DUCT SHALL BE FULLY EXTENDED AND NOT COMPRESSED WITH ELBOW RADIUS NO LESS THAN R/D=1.0.

3 FLEXIBLE DUCT DETAIL
 NTS

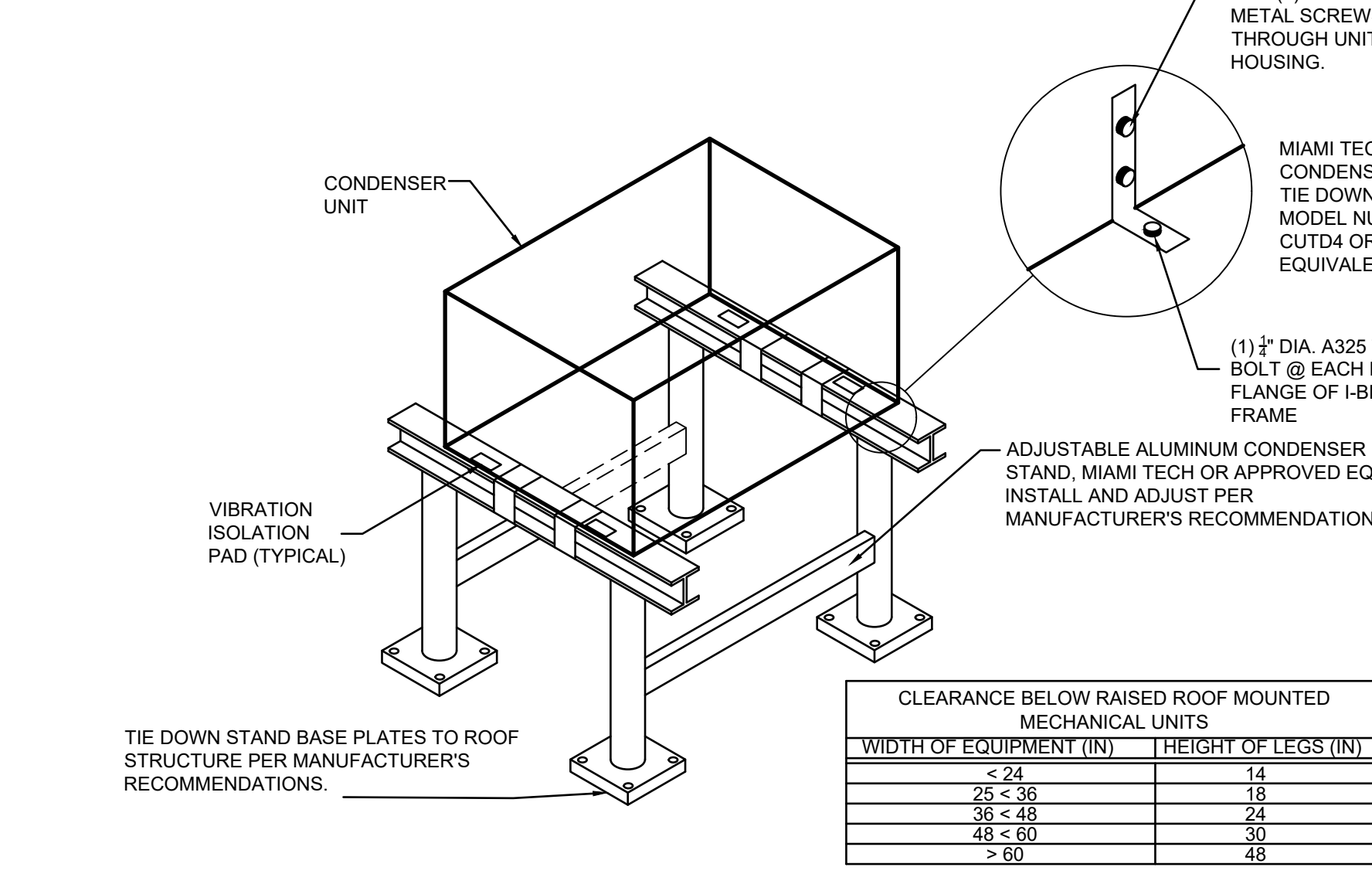


NOTES:
 1. MAXIMUM SPACING BETWEEN HANGER LOCATIONS SHALL BE 5'-0".
 2. STRAPS SHALL BE MINIMUM 1-1/2".
 3. REFER TO SMACNA AND FLORIDA MECHANICAL CODE FOR ADDITIONAL REQUIREMENTS.

4 FLEXIBLE DUCT HANGER DETAIL
 NTS



5 CENTRIFUGAL ROOF FAN DETAIL
 NTS



6 CONDENSER RACK DETAIL
 NTS

CLEARANCE BELOW RAISED ROOF MOUNTED MECHANICAL UNITS	WIDTH OF EQUIPMENT (IN)	HEIGHT OF LEGS (IN)
≤ 24	14	14
25 < 36	18	18
36 < 48	24	24
48 < 60	30	30
> 60	48	48

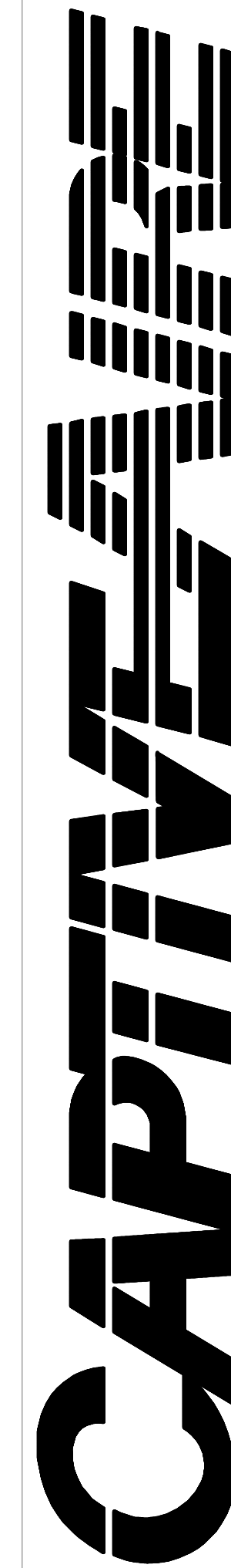
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Mechanical Details
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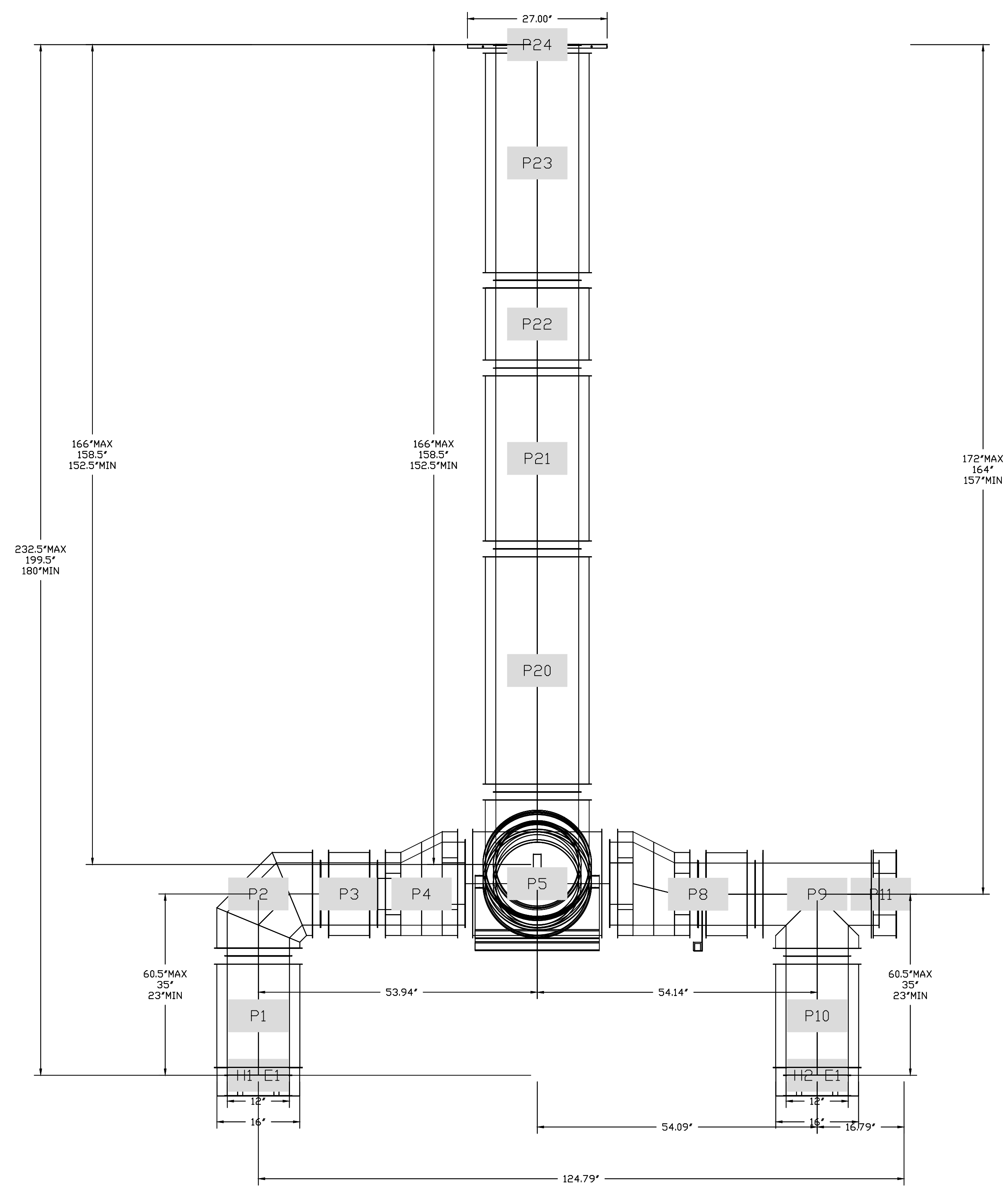
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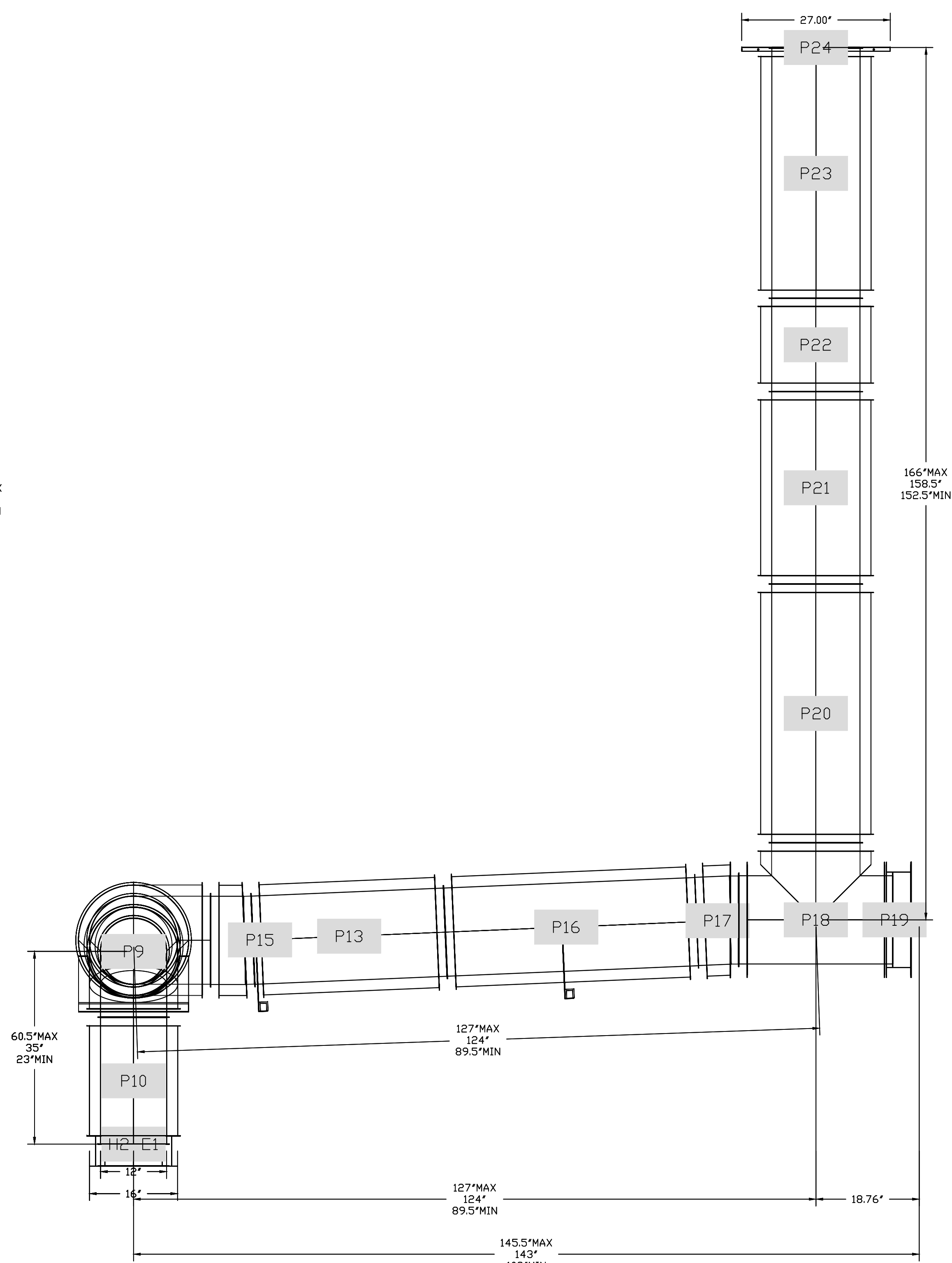
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National Accounts
4641 Paragon Park Rd., Raleigh, NC, 27616 PHONE: (919) 882-2410 FAX: 9192775946 EMAIL: reg1@captivaire.com

DUCTWORK #1 FRONT VIEW



DUCTWORK #1 SIDE VIEW



KROGER 808 EATON, OH KVS R2
Eaton, OH, 45320

DATE: 4/1/2024

DWG.#:
6609576

DRAWN BY: ZDH

SCALE:
3/4" = 1'-0"

MASTER DRAWING

SHEET NO.

14

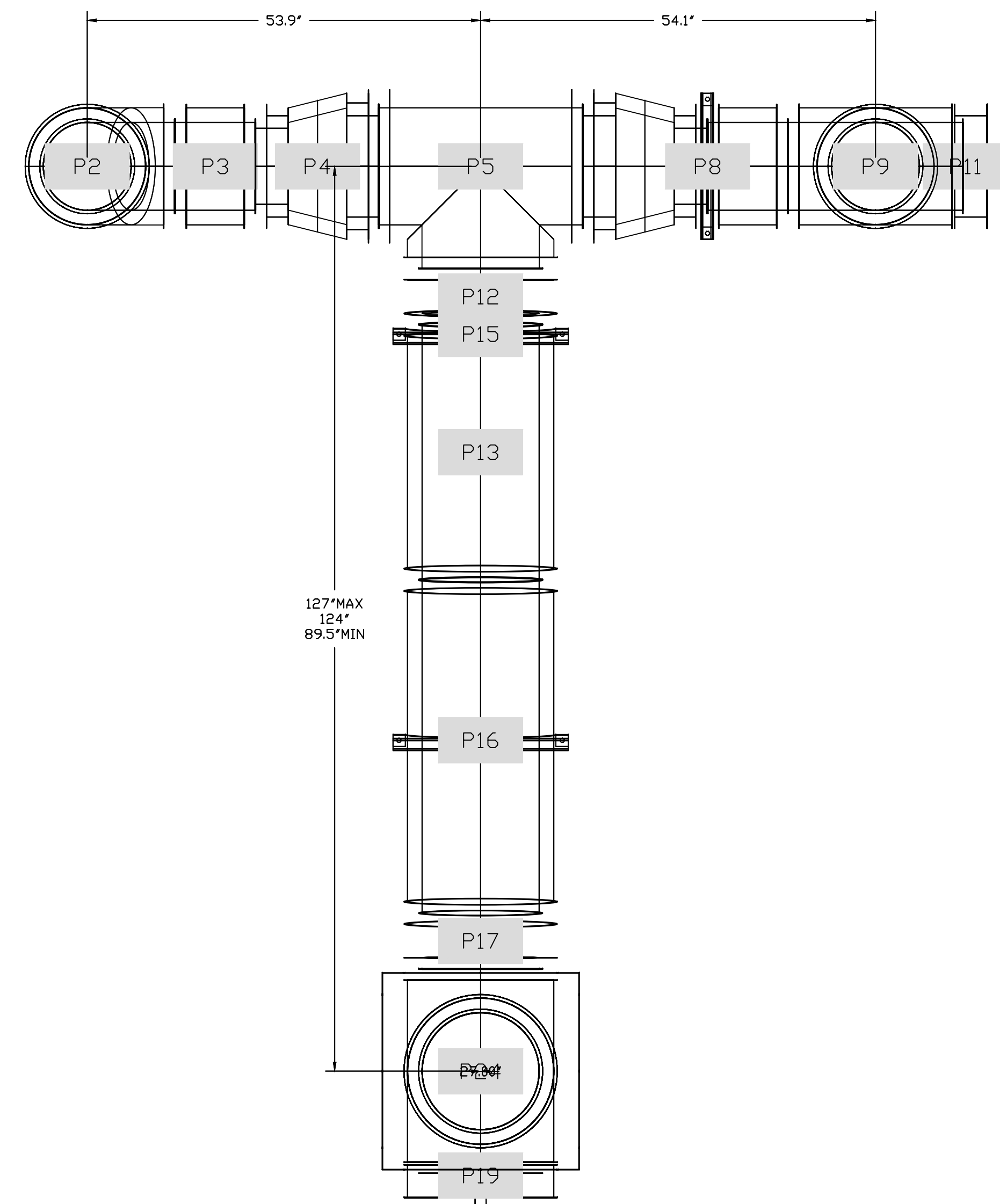
MECHANICAL HOOD DETAILS

Eaton, OH E. Jackson Road & N Barron
Street Development
1705 N Barron St. Eaton, Ohio 45320

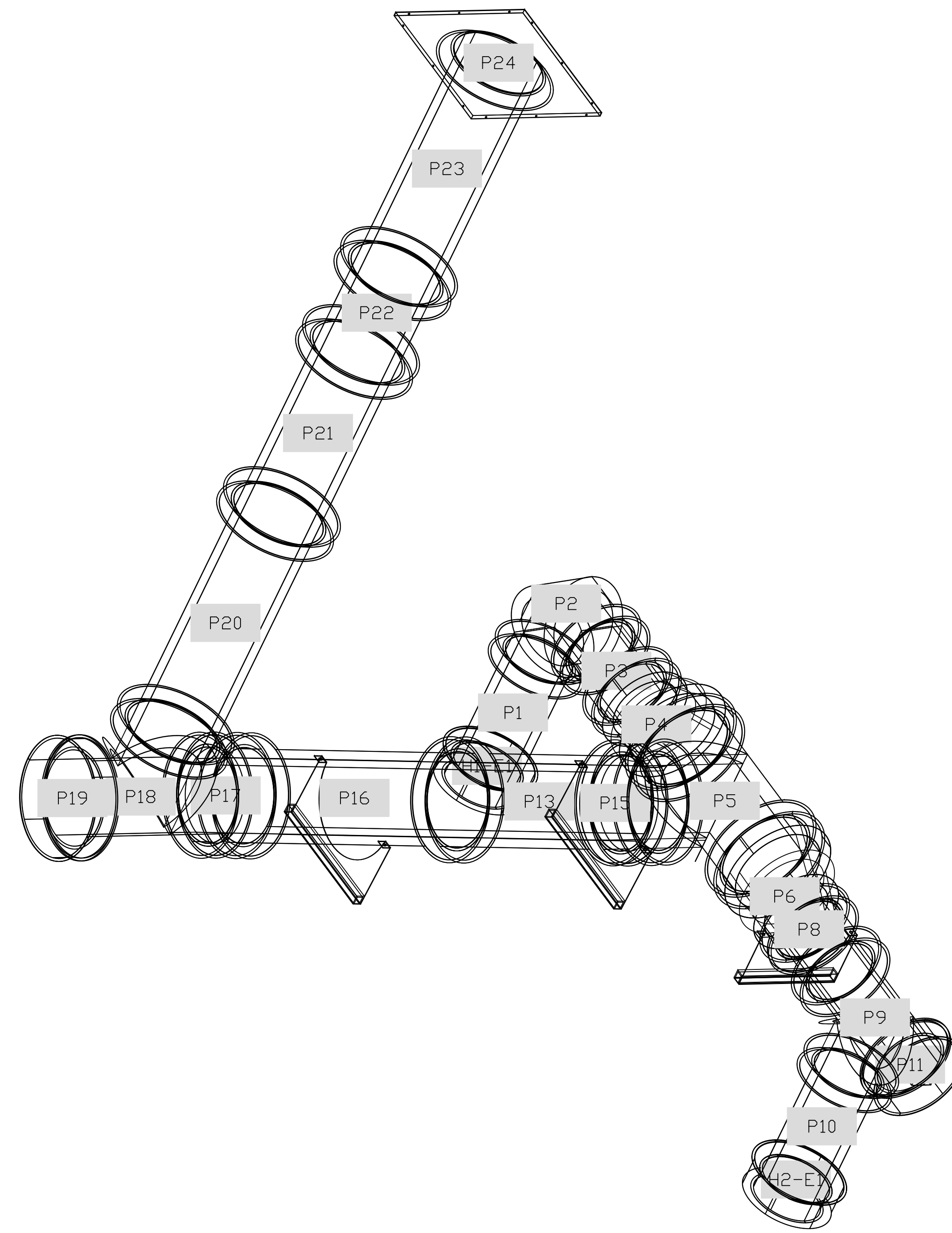
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DUCTWORK #1 TOP VIEW



DUCTWORK #1 SE VIEW



SYSTEM DESIGN VERIFICATION (SDV)

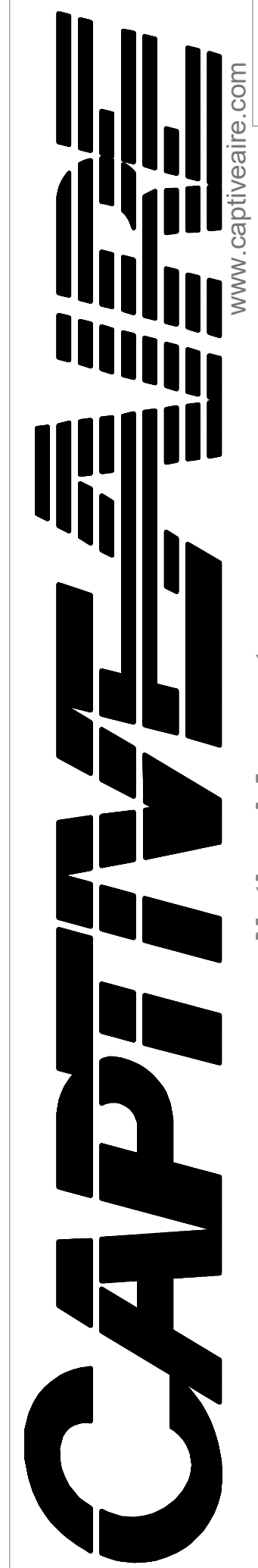
IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK. SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP CHARGES.

DURING THE SDV, CAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER. SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED. THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER DISCREPANCIES.

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KROGER 808 EATON, OH KVS R2
 Eaton, OH, 45320

DATE: 4/1/2024

DWG.#: 6609576

DRAWN BY: ZDH

SCALE: 3/4" = 1'-0"

MASTER DRAWING

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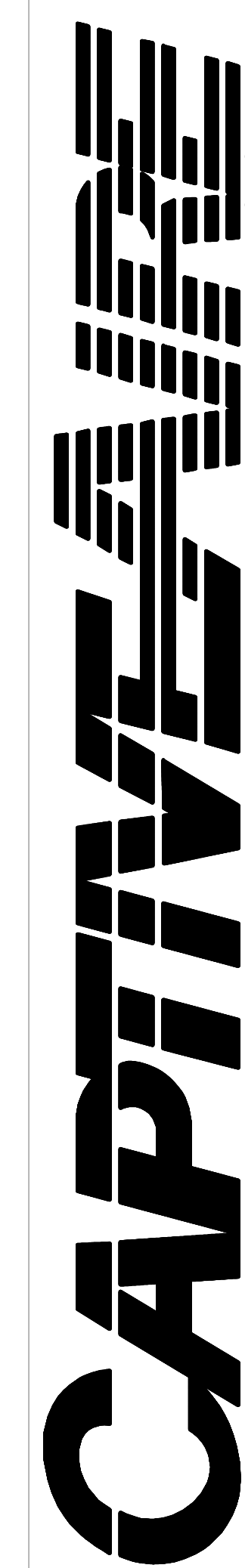
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EMAIL: regi15@captiveaire.com

PATENT NUMBERS
EXHAUST HOODS ND-2/BD-2/SND-2 (CANADA) - CA PATENT 2520435 C.

HOOD INFORMATION - JOB#6609576

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)				HOOD CONSTRUCTION	HOOD CONFIG		
										WIDTH	LENG	HEIGHT	DIA		CFM	VEL	SP
1	H1A - K-0002323	6024 ND-2	CAPTIVEAIRE	9' 0"	450 DEG	I	MEDIUM	150	1350	4"	12"	1350	1719	-0.360"	304 SS WHERE EXPOSED	LEFT	ALONE
2	H1B - K-0002323	6024 ND-2	CAPTIVEAIRE	9' 0"	450 DEG	I	MEDIUM	150	1350	4"	12"	1350	1719	-0.360"	304 SS WHERE EXPOSED	RIGHT	ALONE

HOOD INFORMATION

HOOD NO	TAG	TYPE	FILTER(S)			EFFICIENCY @ 7 MICRONS	QTY	LIGHT(S)		WIRE GUARD	LOCATION	SIZE	UTILITY CABINET(S)		ELECTRICAL	SWITCHES	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
			QTY	HEIGHT	LENGTH			TYPE	SIZE				TYPE	SIZE				
1	H1A - K-0002323	SS BAFFLE WITH HANDLES	6	16"	16"	30%	3	L55 SERIES E26	NO	LEFT	12"x60"x24"	TANK FS	4.0/4.0	SC-310110MA	1 LIGHT 1 FAN	YES	791 LBS	
2	H1B - K-0002323	SS BAFFLE WITH HANDLES	6	16"	16"	30%	3	L55 SERIES E26	NO							YES	465 LBS	

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	H1A - K-0002323	FIELD WRAPPER 18.00" HIGH FRONT, LEFT. LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 304 SS. SENSOR-CV.
2	H1B - K-0002323	FIELD WRAPPER 18.00" HIGH FRONT, RIGHT. RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 304 SS. SENSOR-CV.

GREASE DUCT & CHIMNEY SPECIFICATIONS:
 PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW" ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "DW" IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "DW" DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURES INSTALLATION GUIDE.
 PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURES LISTING MODEL "DW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12". DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS.
 IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW- 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

CAPTIVEAIRE SYSTEMS RECOMMENDS THE USE OF LISTED, PRE-FABRICATED ROUND GREASE EXHAUST DUCT TO REDUCE STATIC PRESSURE IN THE SYSTEM, MINIMIZE INSTALLATION AND INSPECTION TIMES, AND ENSURE DUCT IS LIQUID TIGHT

HVAC DISTRIBUTION NOTE
 HIGH VELOCITY DIFFUSERS OR HVAC RETURNS SHOULD NOT BE PLACED WITHIN TEN (10) FEET OF THE EXHAUST HOOD. PERFORATED DIFFUSERS ARE RECOMMENDED.

VERIFY CEILING HEIGHT
 _____' - _____"
 HEIGHT REQUIRED TO VERIFY THAT HOOD FITS SPACE AND TO SIZE THE ENCLOSURE PANELS

CUSTOMER APPROVAL TO MANUFACTURE:

APPROVED AS NOTED	<input type="checkbox"/>
APPROVED WITH NO EXCEPTION TAKEN	<input type="checkbox"/>
REVISE AND RESUBMIT	<input type="checkbox"/>
SIGNATURE _____	
YOUR TITLE _____	DATE _____

KROGER 808 EATON, OH KVS R2
 Eaton, OH, 45320

DATE: 4/1/2024
 DWG.#: 6609576
 DRAWN BY: ZDH
 SCALE: 3/4" = 1'-0"
 MASTER DRAWING

SHEET NO.
1

No.	Date	Revision

Designed: SJM
 Drawn: CNP
 Checked: SJM
 Job No.: K9201.1
 Date: 05/23/2024 © 2024

MECHANICAL HOOD DETAILS
Eaton, OH E. Jackson Road & N Barron Street Development
 1705 N Barron St. Eaton, Ohio 45320

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS.

CAPTIVE

National Accounts
4641 Paragon Park Rd., Raleigh, NC, 27616 PHONE: (919) 882-2410 FAX: 9192275946 EMAIL: egf@captivate.com

KROGER #808 EATON, OH DOAS R2
Eaton, OH, 45320

DATE: 4/1/2024
DWG.#: 6611455
DRAWN BY: ZDH
SCALE: 1/2" = 1'-0"
MASTER DRAWING

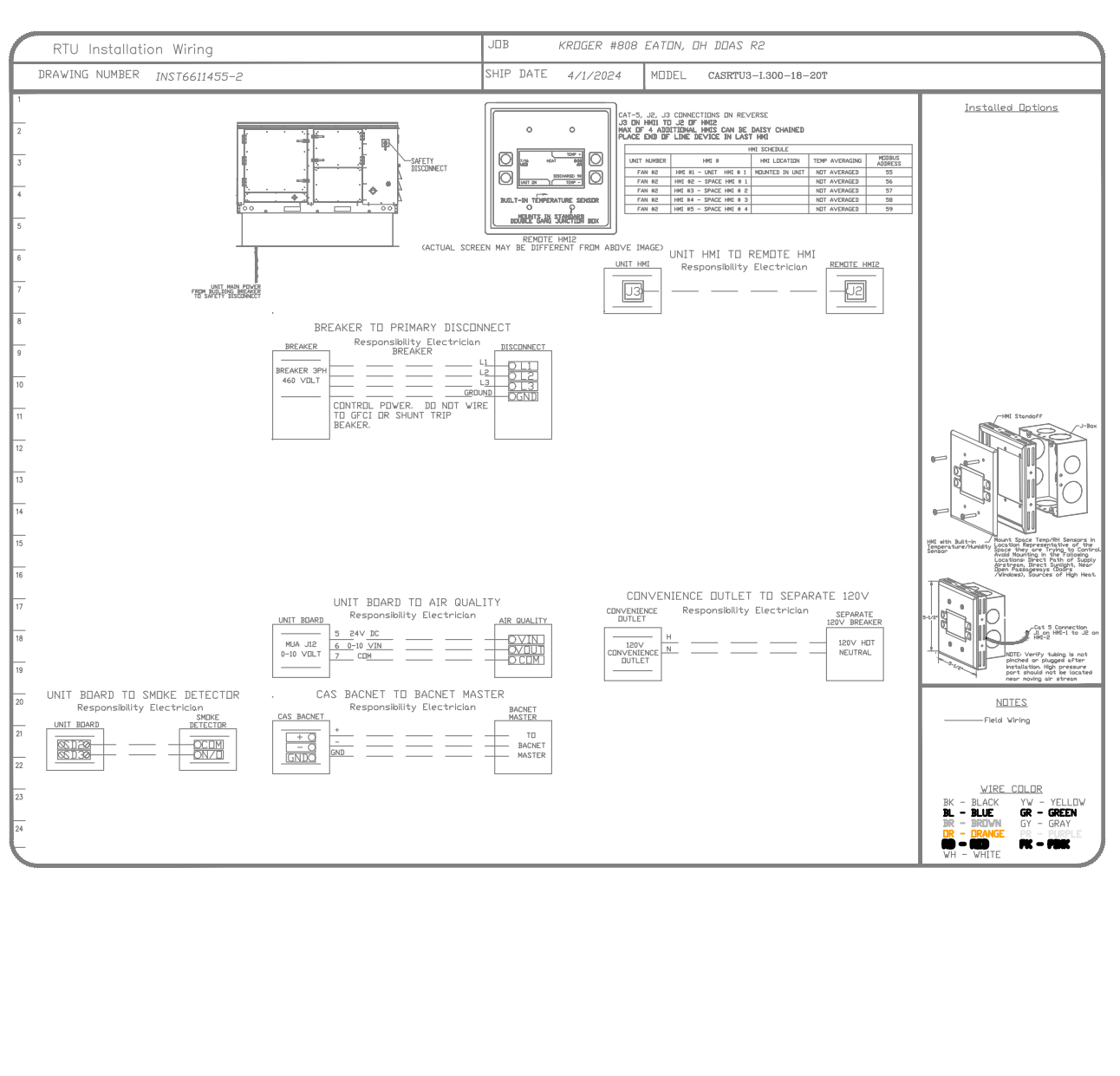
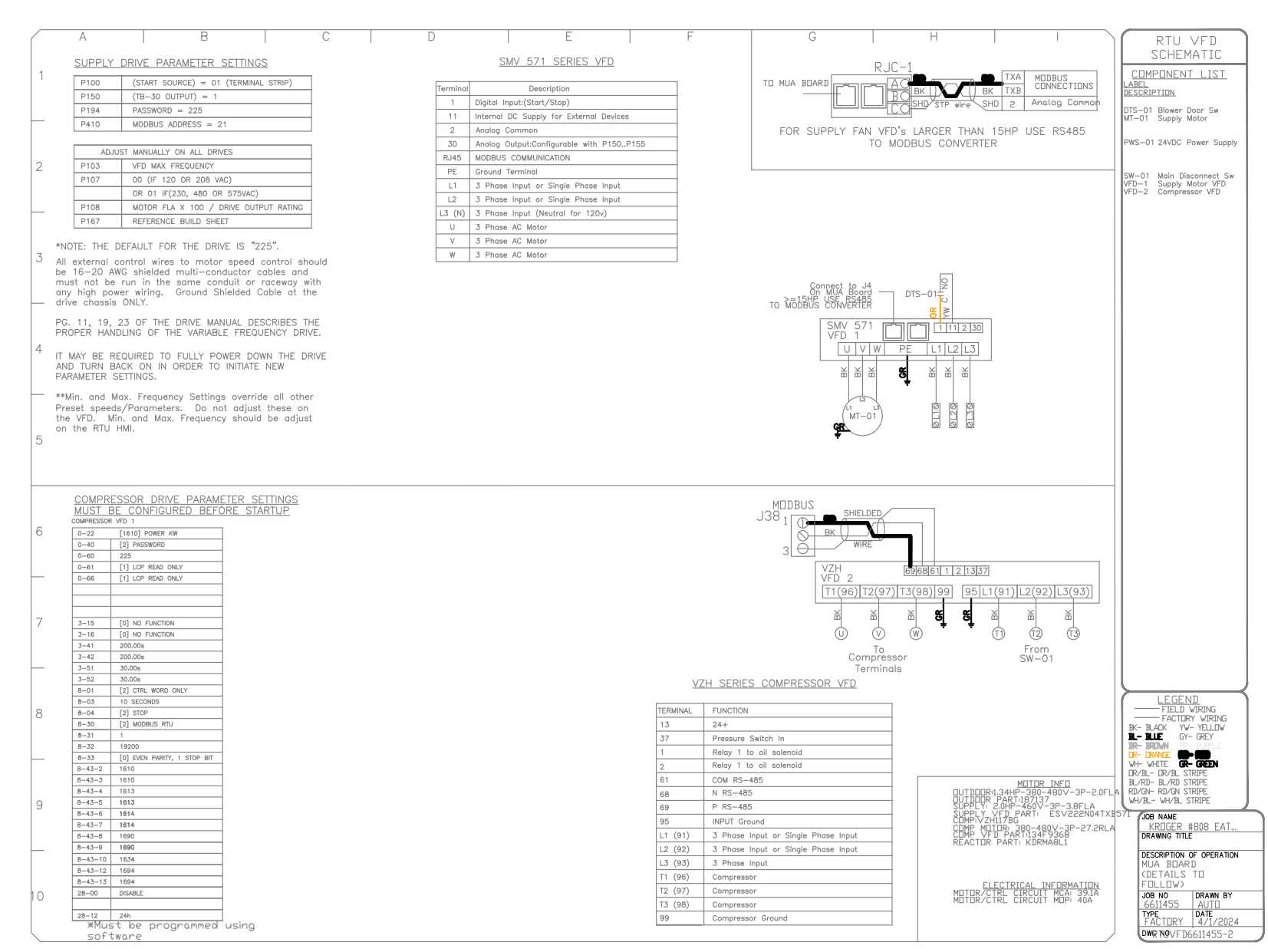
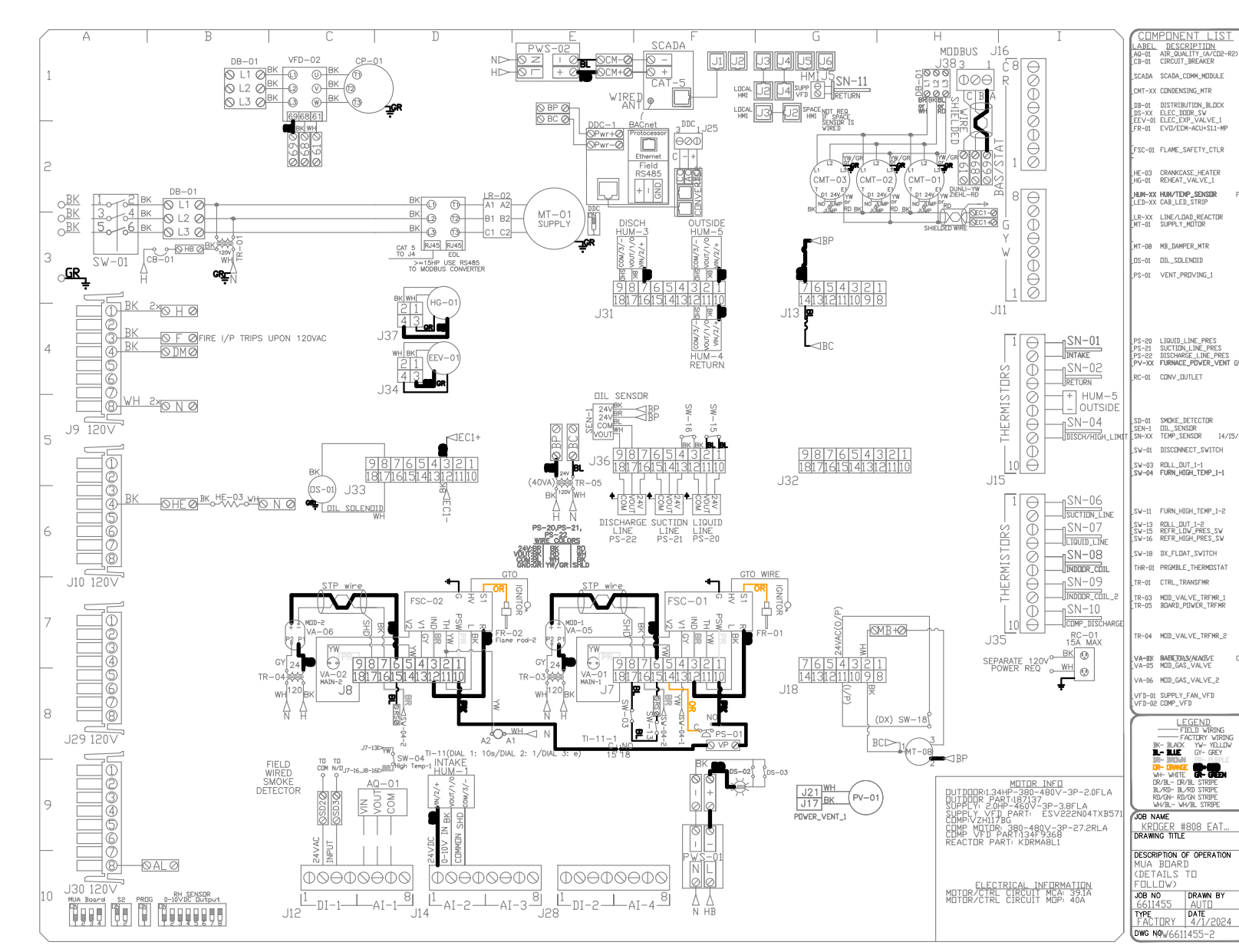
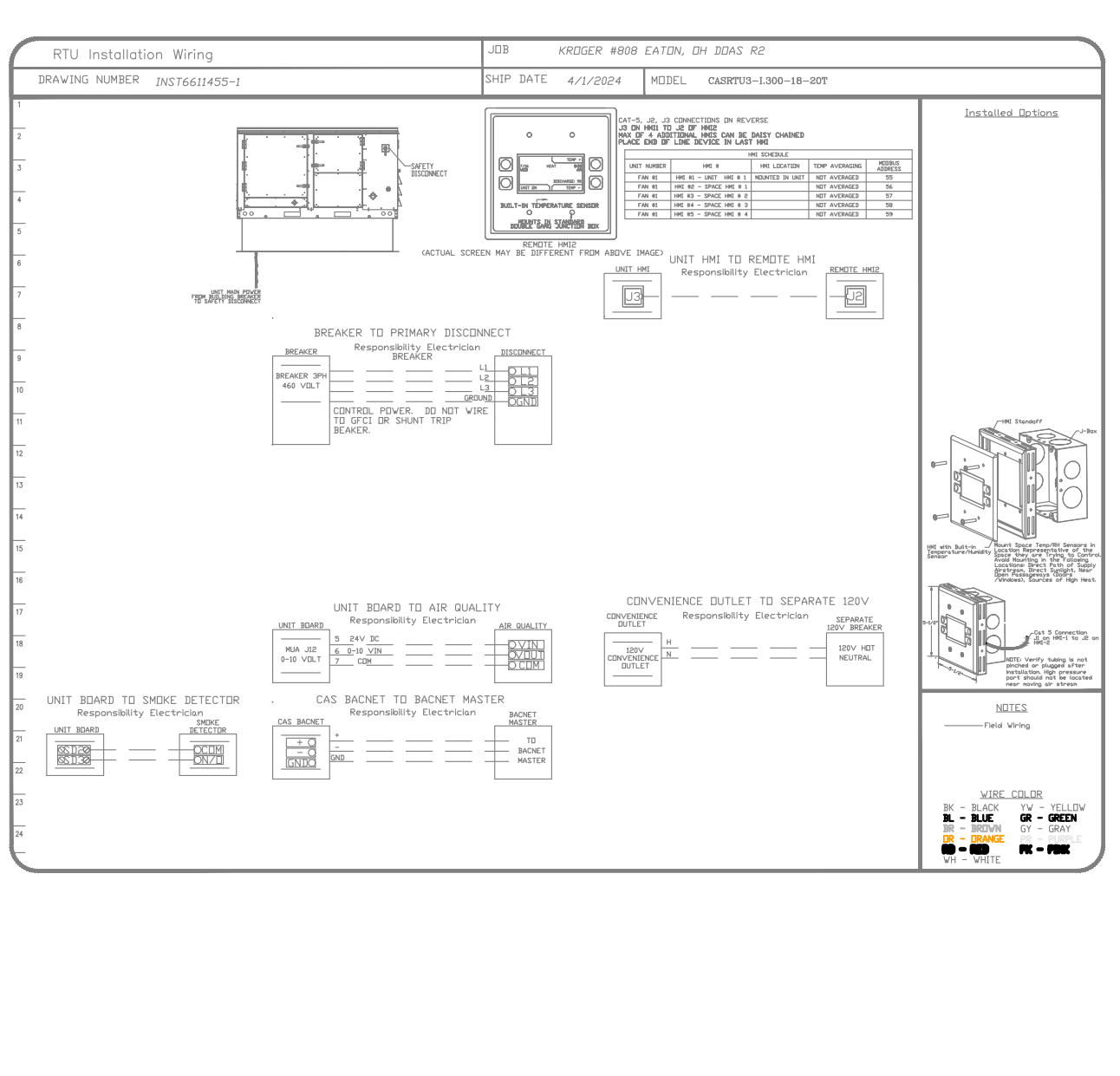
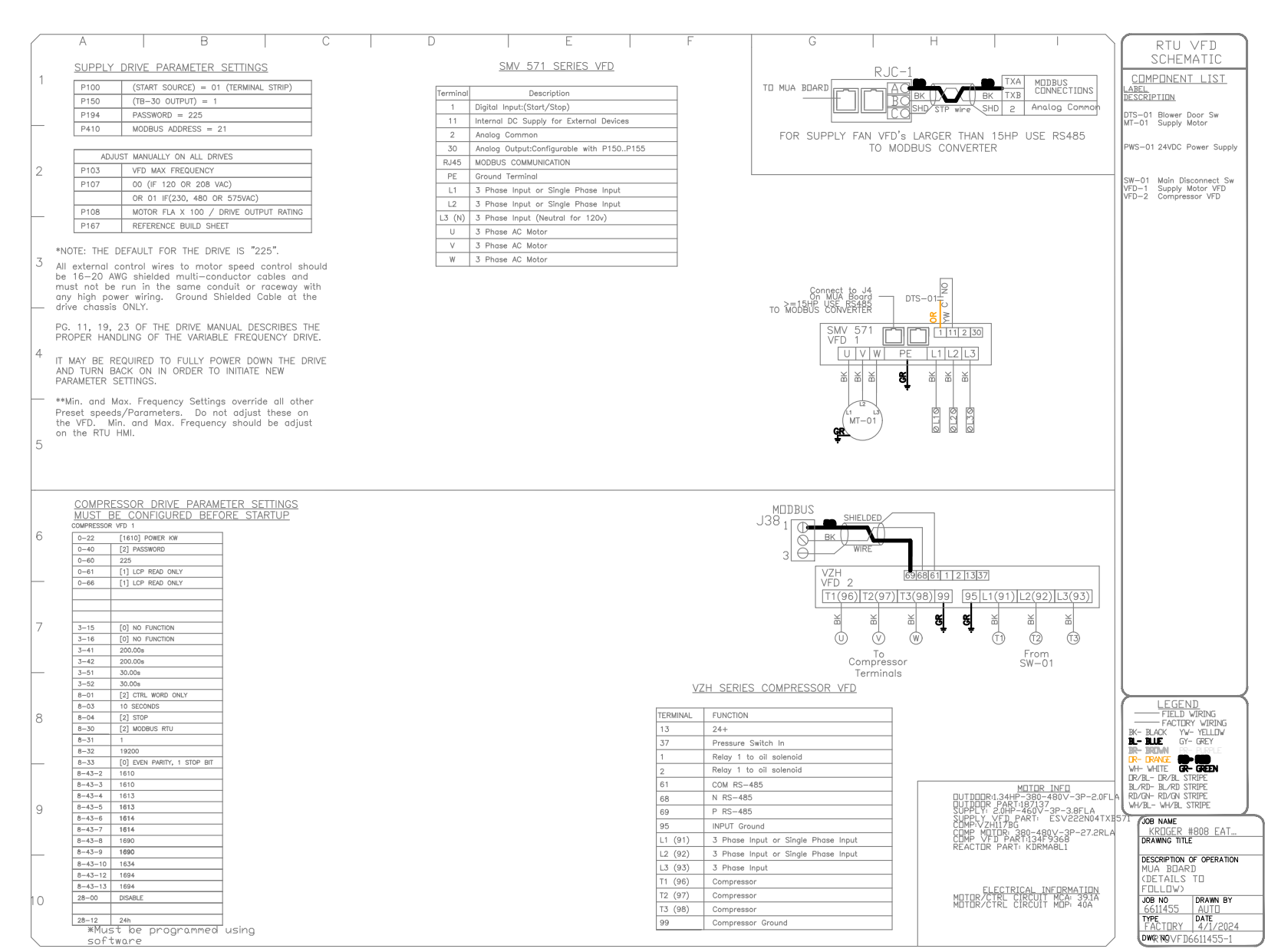
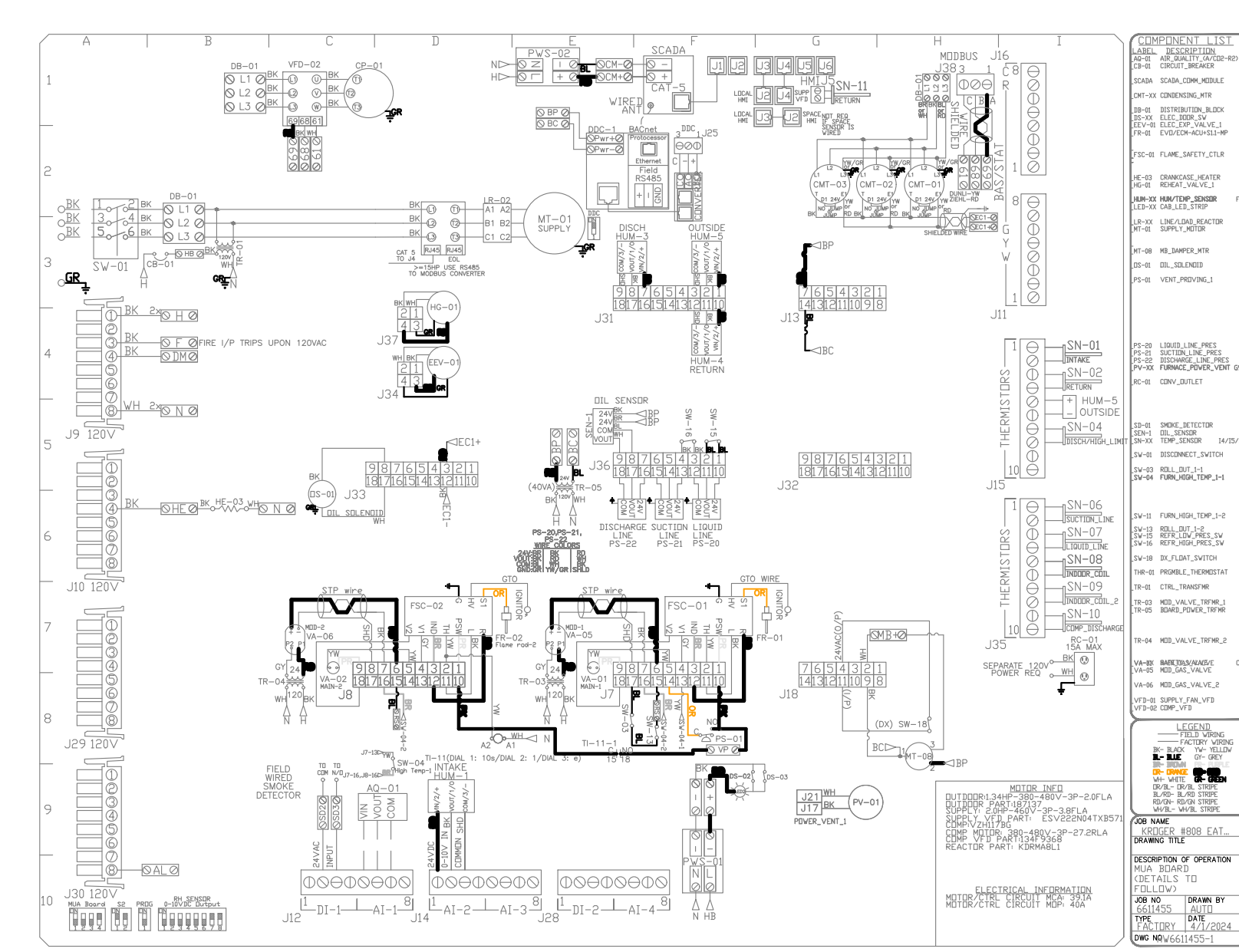
SHEET NO. 3

MECHANICAL HOOD DETAILS

Eaton, OH E. Jackson Road & N Barron Street Development
1705 N Barron St. Eaton, Ohio 45320

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS.

Sheet No. **M5.19**



SYSTEM DESIGN VERIFICATION (SDV)

IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

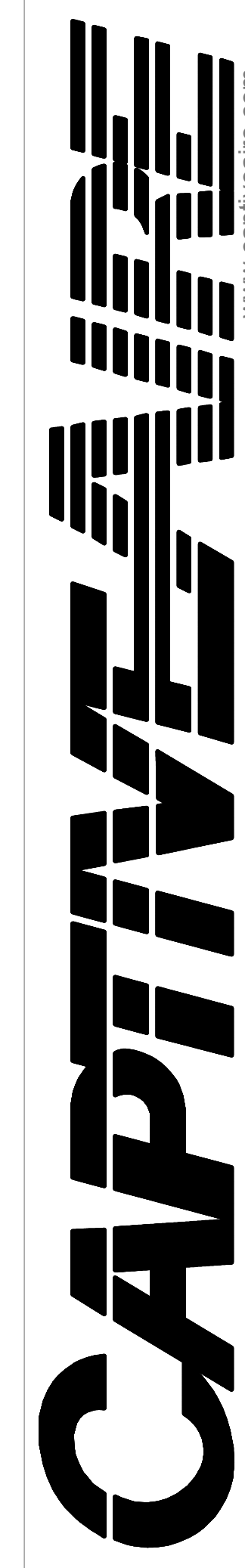
ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP CHARGES.

DURING THE SDV, CAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER. SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED. THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER DISCREPANCIES.

No.	Date	Revision
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Designed: SJM
Drawn: CNP
Checked: SJM
Job No.: K9201.1
Date: 05/23/2024 © 2024

REVISIONS	
DESCRIPTION	DATE



National Accounts
 4641 Paragon Park Rd., Raleigh, NC, 27616 PHONE: (919) 882-2410 FAX: 9192275948 EMAIL: reg15@captiveaire.com
 www.captiveaire.com

FOR QUESTIONS, CALL THE
National Accounts
REGION 15
PHONE: (919) 882-2410
EMAIL: reg15@captiveaire.com

PATENT NUMBERS
EXHAUST HOODS ND-2/BD-2/SND-2 (CANADA) - CA PATENT 2520435 C.

HOOD INFORMATION - JOB#6609576

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HOOD INFORMATION

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			QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM	SIZE	ELECTRICAL MODEL #			SWITCHES QUANTITY
1	H1A - K-0002323	SS BAFFLE WITH HANDLES	6	16"	16"	30%	3	L55 SERIES E26	NO	LEFT	12"x60"x24"	TANK FS	4.0/4.0	SC-310110MA	1 LIGHT 1 FAN	YES	791 LBS
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HOOD OPTIONS

HOOD NO	TAG	OPTION
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APPROVED AS NOTED	<input type="checkbox"/>
APPROVED WITH NO EXCEPTION TAKEN	<input type="checkbox"/>
REVISE AND RESUBMIT	<input type="checkbox"/>
SIGNATURE _____	
YOUR TITLE _____	DATE _____

KROGER 808 EATON, OH KVS R2
 Eaton, OH, 45320

DATE: 4/1/2024
DWG.#: 6609576
DRAWN BY: ZDH
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
1

No.	Date	Revision

Designed: SJM
 Drawn: CNP
 Checked: SJM
 Job No.: K9201.1
 Date: 05/23/2024 © 2024

MECHANICAL HOOD DETAILS
Eaton, OH E. Jackson Road & N Barron Street Development
 1705 N Barron St. Eaton, Ohio 45320

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Sheet No.
M5.2

REVISIONS

NO.	DESCRIPTION	DATE

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KROGER 808 EATON, OH KVS R2
Eaton, OH, 45320

DATE: 4/1/2024
DWG.#: 6609576
DRAWN BY: ZDH
SCALE: 3/4" = 1'-0"
MASTER DRAWING

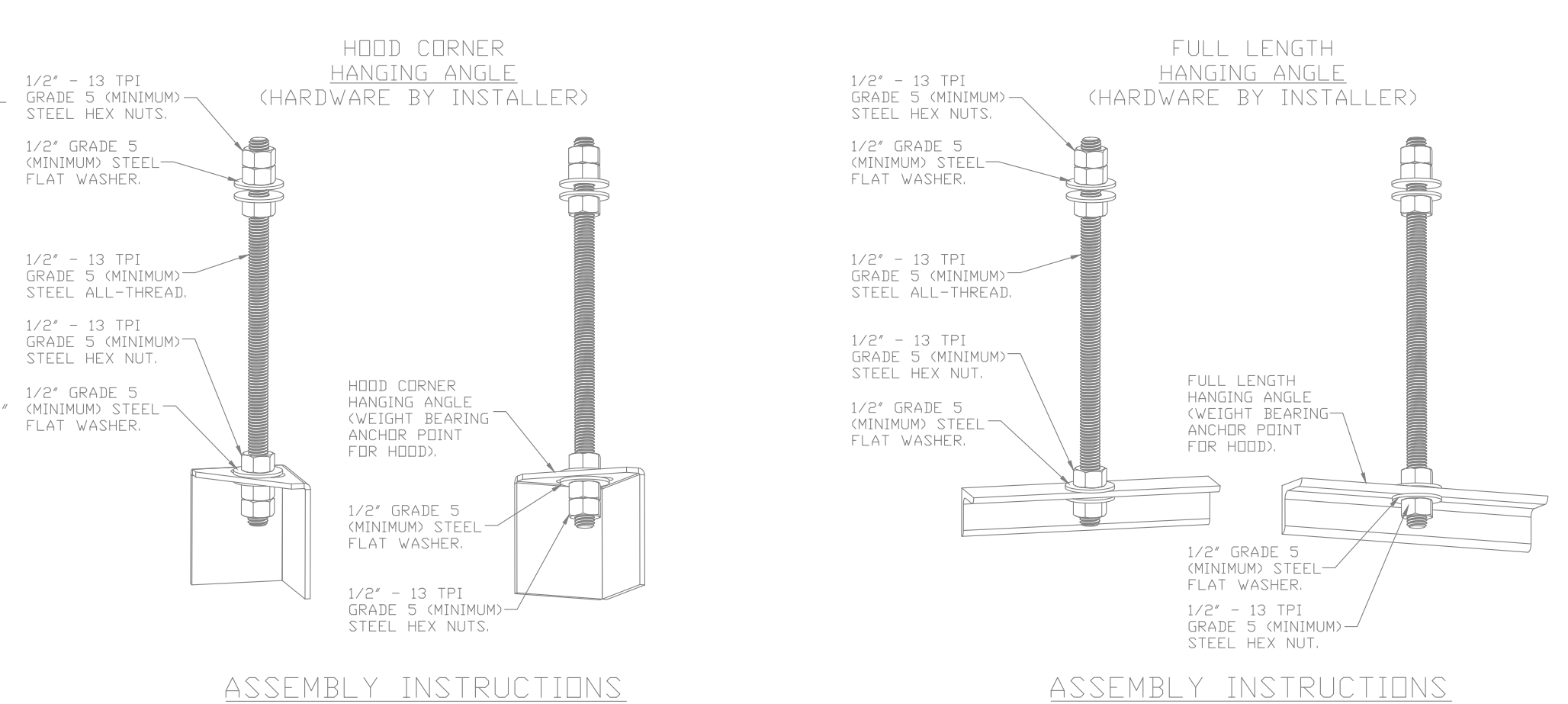
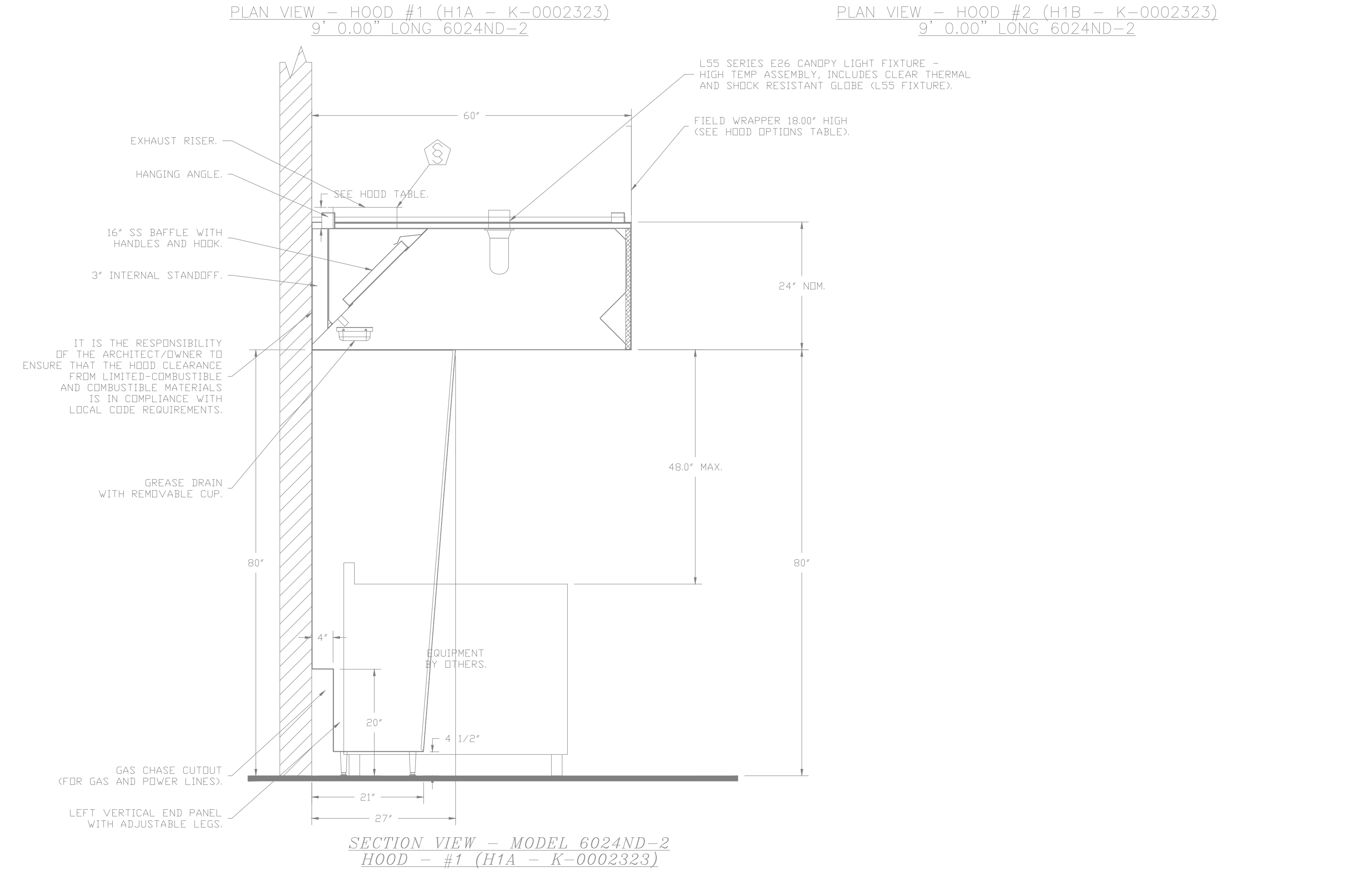
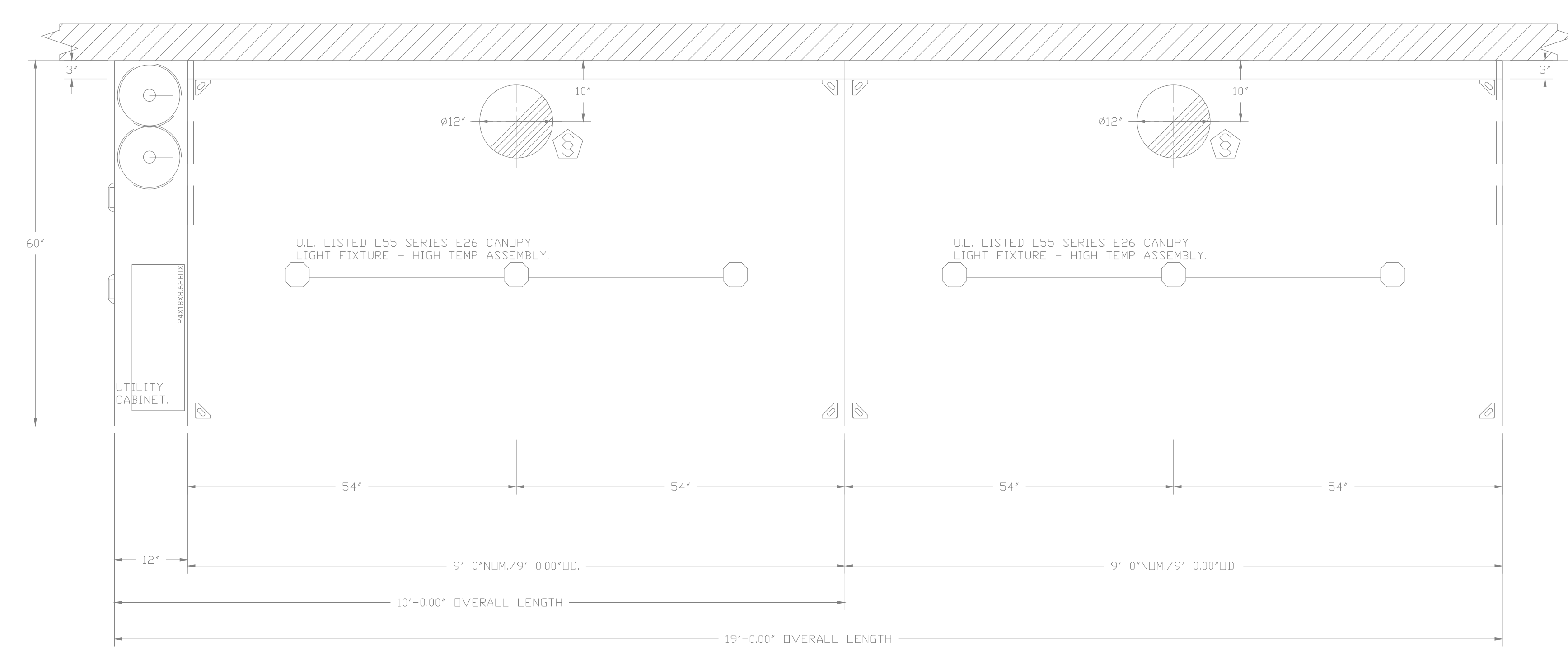
SHEET NO. 2

No.	Date	Revision

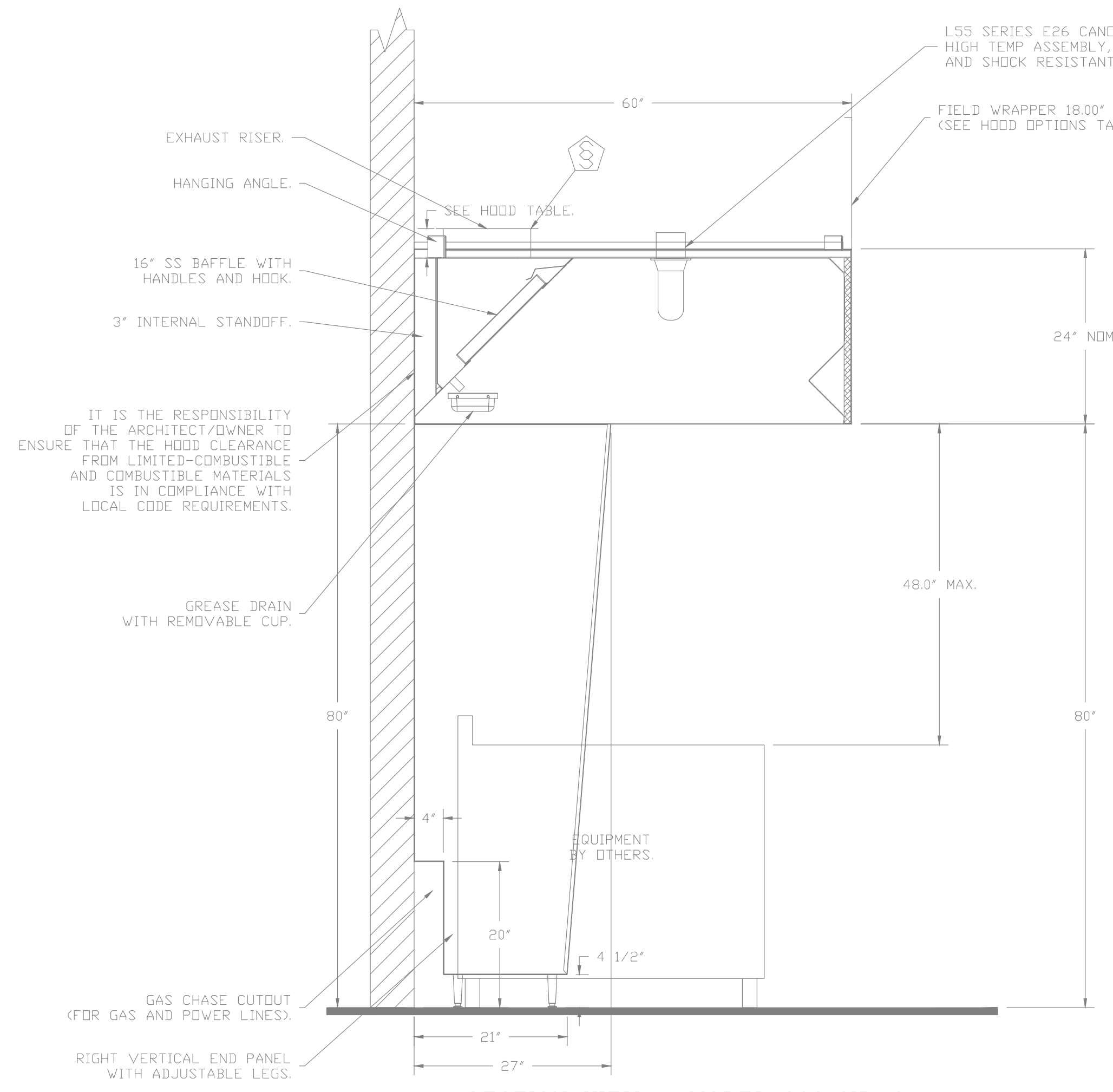
Designed: SJM
Drawn: CNP
Checked: SJM
Job No.: K9201.1
Date: 05/23/2024 © 2024

MECHANICAL HOOD DETAILS
Eaton, OH E. Jackson Road & N Barron Street Development
1705 N Barron St. Eaton, Ohio 45320

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS.



HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



IT IS THE RESPONSIBILITY OF THE ARCHITECT/DWNER TO ENSURE THAT THE HOOD CLEARANCE FROM LIMITED-COMBUSTIBLE AND COMBUSTIBLE MATERIALS IS IN COMPLIANCE WITH LOCAL CODE REQUIREMENTS.

REVISIONS	
DESCRIPTION	DATE

CAPTIVE
 www.captivefire.com
 National Accounts
 4641 Paragon Park Rd., Raleigh, NC 27616 PHONE: (919) 882-2410 FAX: 9192275948 EMAIL: nsg15@captivefire.com

No.	Date	Revision

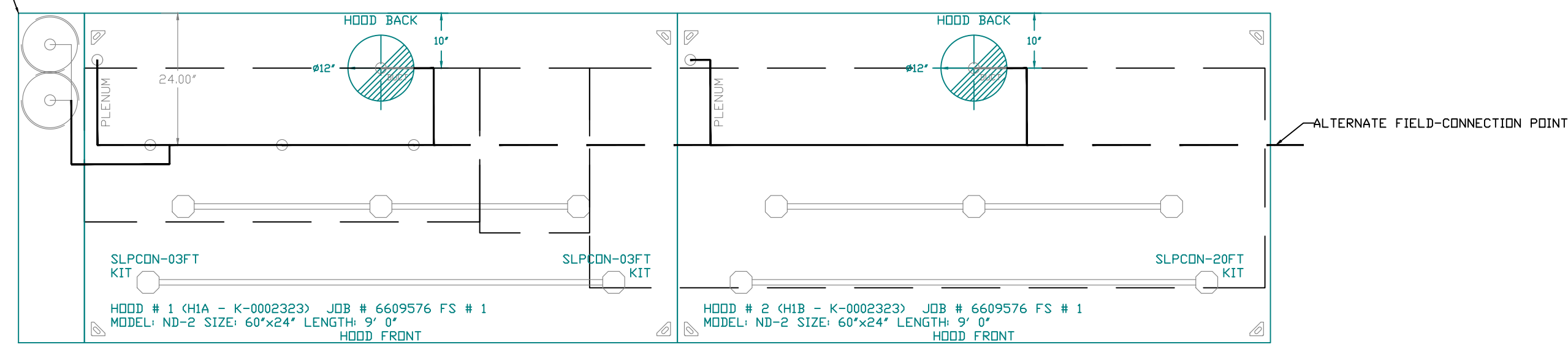
Designed: SJM
 Drawn: CNP
 Checked: SJM
 Job No.: K9201.1
 Date: 05/23/2024 © 2024

MECHANICAL HOOD DETAILS
**Eaton, OH E. Jackson Road & N Barron
Street Development**
 1705 N Barron St. Eaton, Ohio 45320

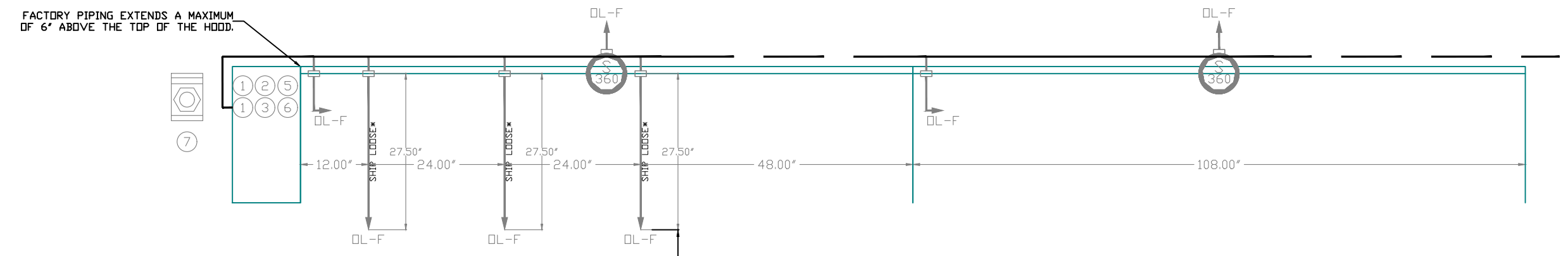
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COMPLETE SET OF PLANS.

Sheet No.
M5.5

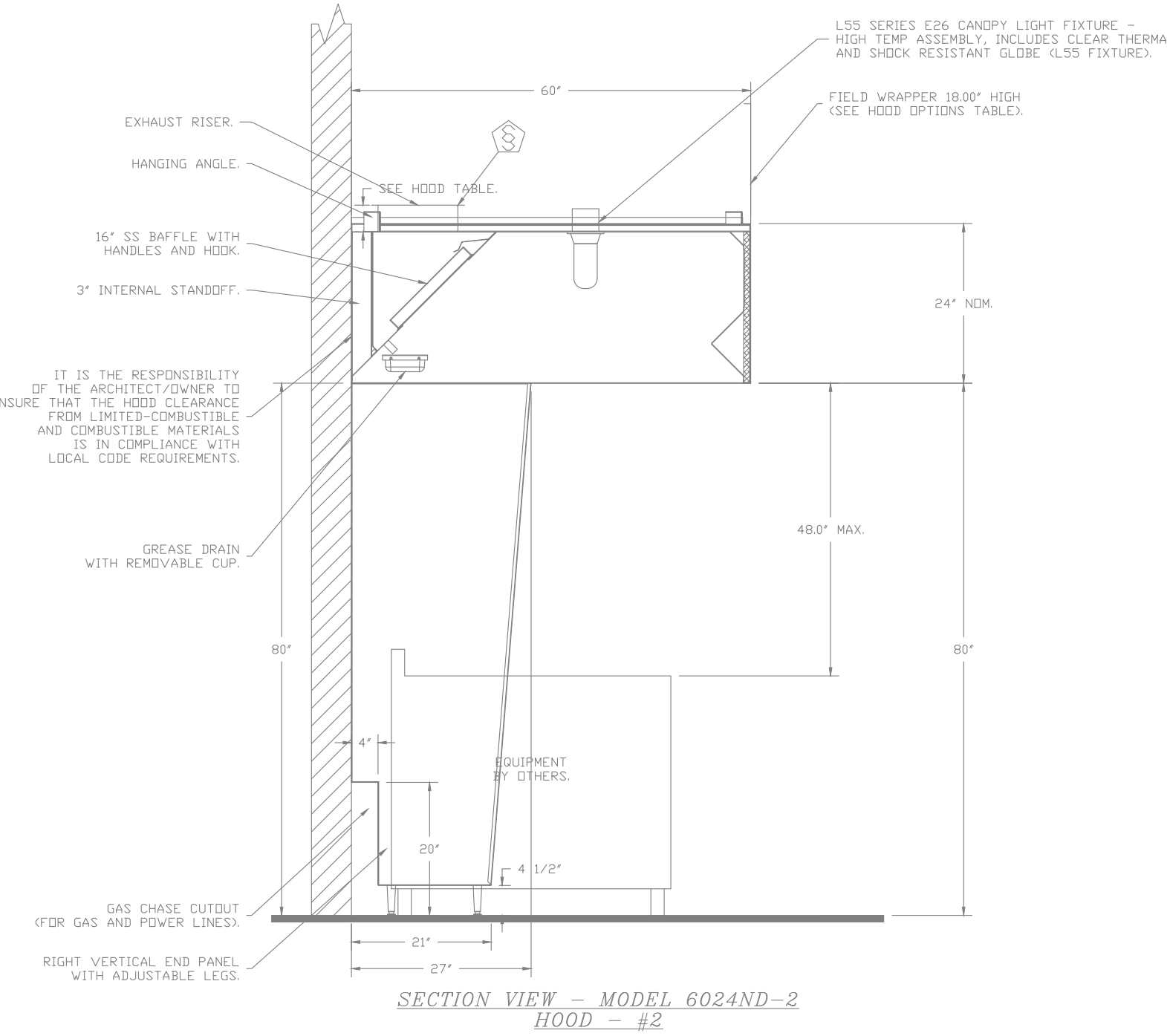
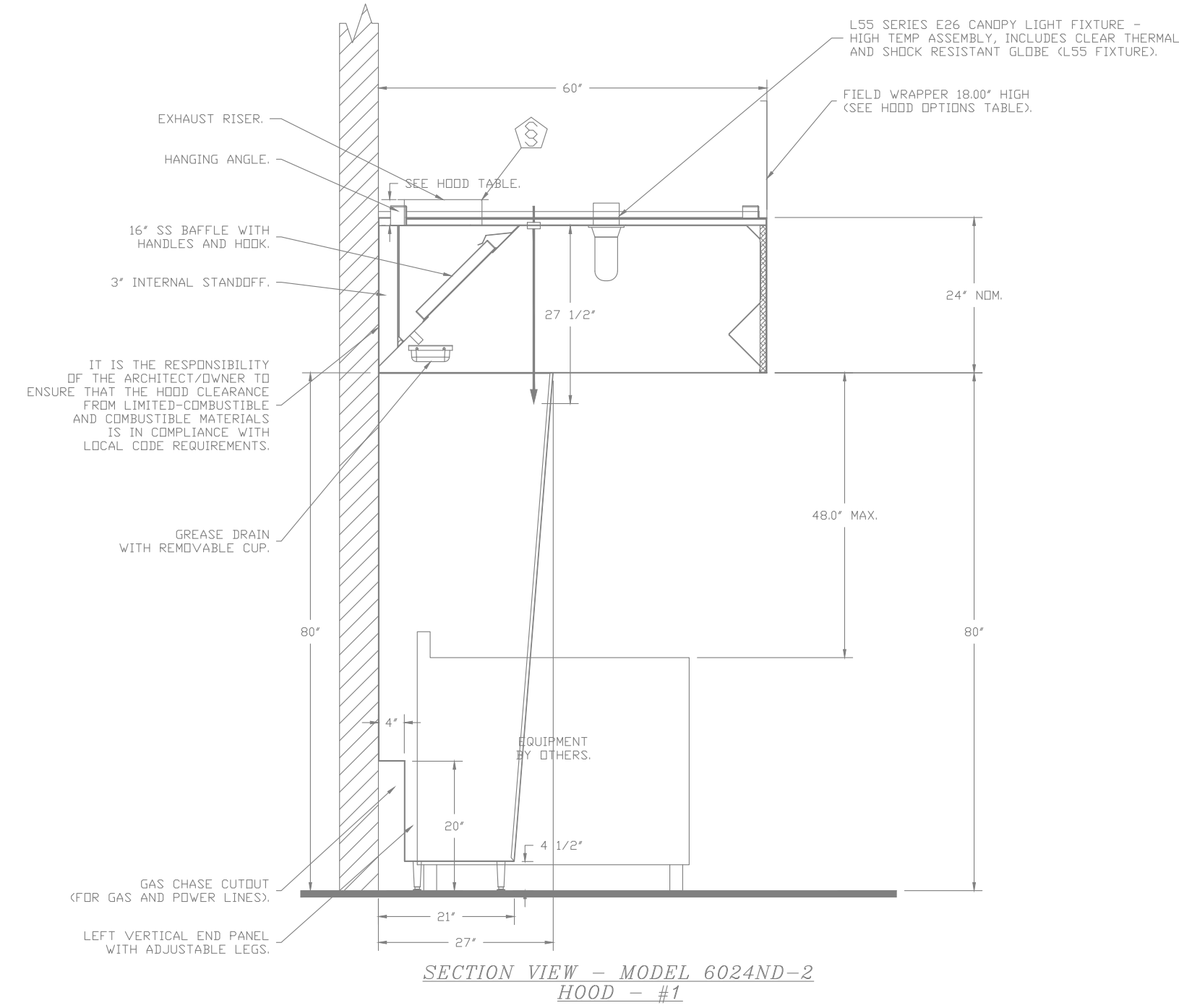
SYSTEM REQUIRES A MINIMUM OF 7 FT. OF
EQUIVALENT PIPE LENGTH BETWEEN TANK AND
NEAREST APPLIANCE NOZZLE FOR MOST APPLIANCES.
EACH NO. BEFORE CLAY AND 10 FT. OF
EQUIVALENT LENGTH SEE MANUAL FOR DETAILS



- NOTES
- FIELD PIPE DROPS AS SHOWN
 - PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
 - FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
 - SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
 - RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
 - OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
 - IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
 - FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.
 - APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.
 - THIS FIRE SYSTEM COMPLIES WITH UL 300 REQUIREMENTS.
 - DL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS
 - DL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS
 - JOB #: 6609576
 - JOB NAME: KROGER 808 EATON, OH KVS R2.



- SYSTEM SIZE: TANK-SP-2 DESIGN FP: 31 MAXIMUM FP: 40
 HOOD # 1 9' 0.00' LONG x 60" WIDE x 24" HIGH
 RISER # 1 SIZE: 12" DIA.
 HOOD # 2 9' 0.00' LONG x 60" WIDE x 24" HIGH
 RISER # 2 SIZE: 12" DIA.
 HOOD # 2 METAL BLOW-OFF CAPS INCLUDED.
- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25' FT. IN LENGTH.
 - MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.
- LEGEND - FIRE CABINET TANK SYSTEM
- 4 GALLON TANK.
 - PRIMARY ACTUATOR RELEASE
 - SECONDARY ACTUATOR RELEASE.
 - PRESSURE SUPERVISION SWITCH.
 - PRIMARY HOSE ASSEMBLY.
 - SECONDARY HOSE ASSEMBLY.
 - REMOTE MANUAL ACTUATION DEVICE.



KROGER 808 EATON, OH KVS R2
 Eaton, OH, 45320

DATE: 4/1/2024
 DWG.#: 6609576
 DRAWN BY: ZDH
 SCALE: 1/2" = 1'-0"
 MASTER DRAWING

SHEET NO.
4

EXHAUST FAN INFORMATION - JOB#6609576

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	EF-C1 K-0002355	1	DR30HFA	CAPTIVEAIRE	400	0.500	1096	DDP	0.250	0.0740	1	115	3.8		64	5.9
2	EF-E1 K-0002355	1	DR30HFA	CAPTIVEAIRE	800	0.500	1493	DDP	0.250	0.1860	1	115	3.8		64	10.7
3	EF-E2 K-0002356	1	DR12HFA	CAPTIVEAIRE	200	0.500	1220	DDP	0.180	0.0770	1	115	1.9		54	5.4
4	EF-G1 K-0048398	1	DU50HFA	CAPTIVEAIRE	900	0.900	1438	TEAD-ECM	0.500	0.2950	1	115	6.3	342 FPM	83	14.2
5	EF-G2 K-0048398	1	DU50HFA	CAPTIVEAIRE	900	0.900	1438	TEAD-ECM	0.500	0.2950	1	115	6.3	342 FPM	83	14.2
6	EF-K1 K-0069366	1	DU180HFA	CAPTIVEAIRE	2700	1.750	1300	DDP, PREMIUM	2.000	1.6340	3	208	8.3	624 FPM	188	17.9
7	EF-M2 K-0002357	1	DR12HFA	CAPTIVEAIRE	150	0.500	1200	DDP	0.180	0.0740	1	115	1.9		54	5.2
8	EF-R1 K-0002355	1	DR30HFA	CAPTIVEAIRE	400	0.500	1096	DDP	0.250	0.0740	1	115	3.8		64	5.9
9	EF-R2 K-0002356	1	DR12HFA	CAPTIVEAIRE	300	0.500	1293	DDP	0.180	0.0930	1	115	1.9		54	6.2
10	EF-R3 PNET42845	1	DR10HFA	CAPTIVEAIRE	75	0.500	1415	TEAD-ECM	0.166	0.0540	1	115	1.9		54	4.6
11	EF-S1 K-0002357	1	DR12HFA	CAPTIVEAIRE	300	0.500	1293	DDP	0.180	0.0930	1	115	1.9		54	6.2
12	EF-S2 K-0002357	1	DR12HFA	CAPTIVEAIRE	300	0.500	1293	DDP	0.180	0.0930	1	115	1.9		54	6.2

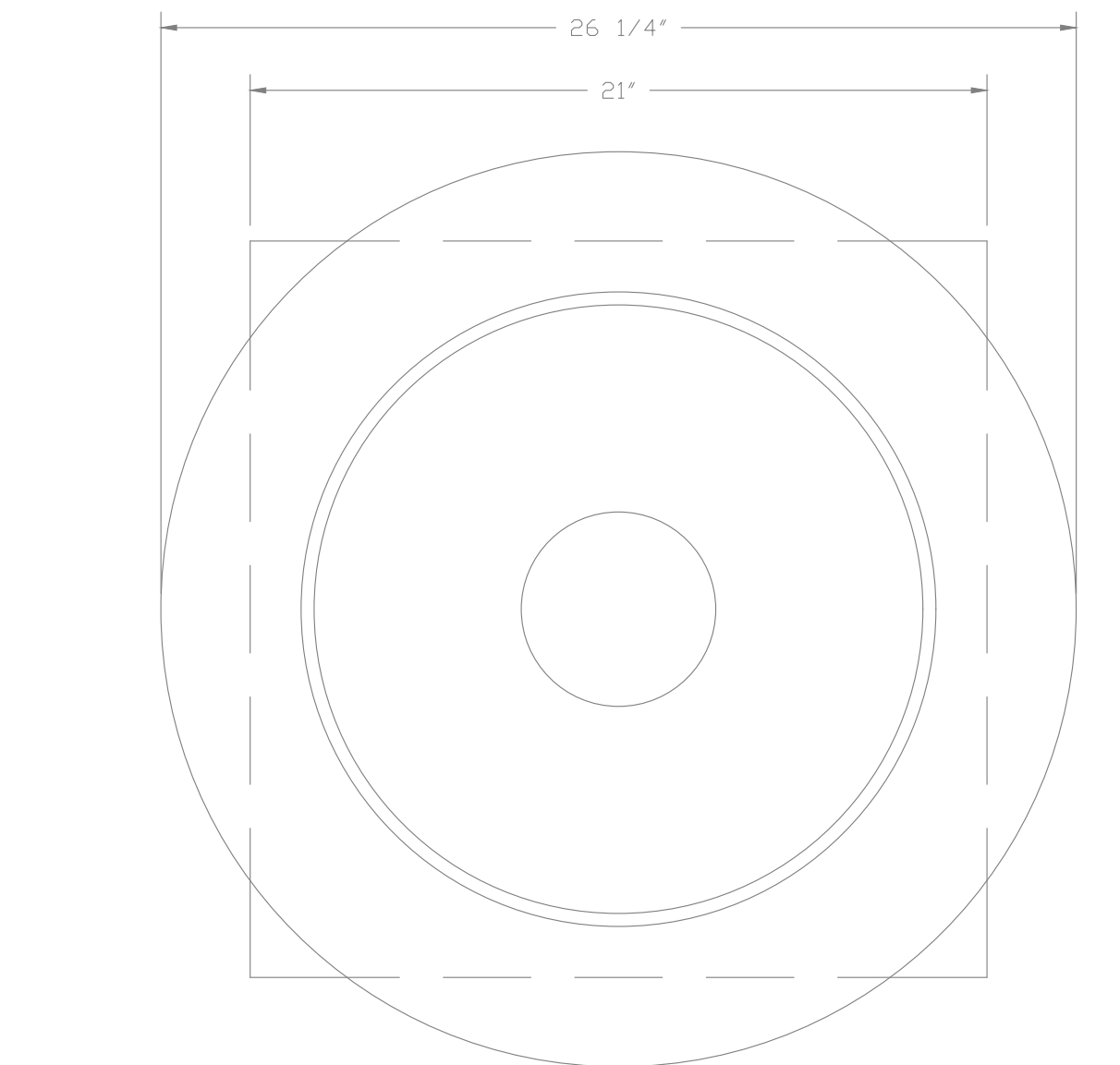
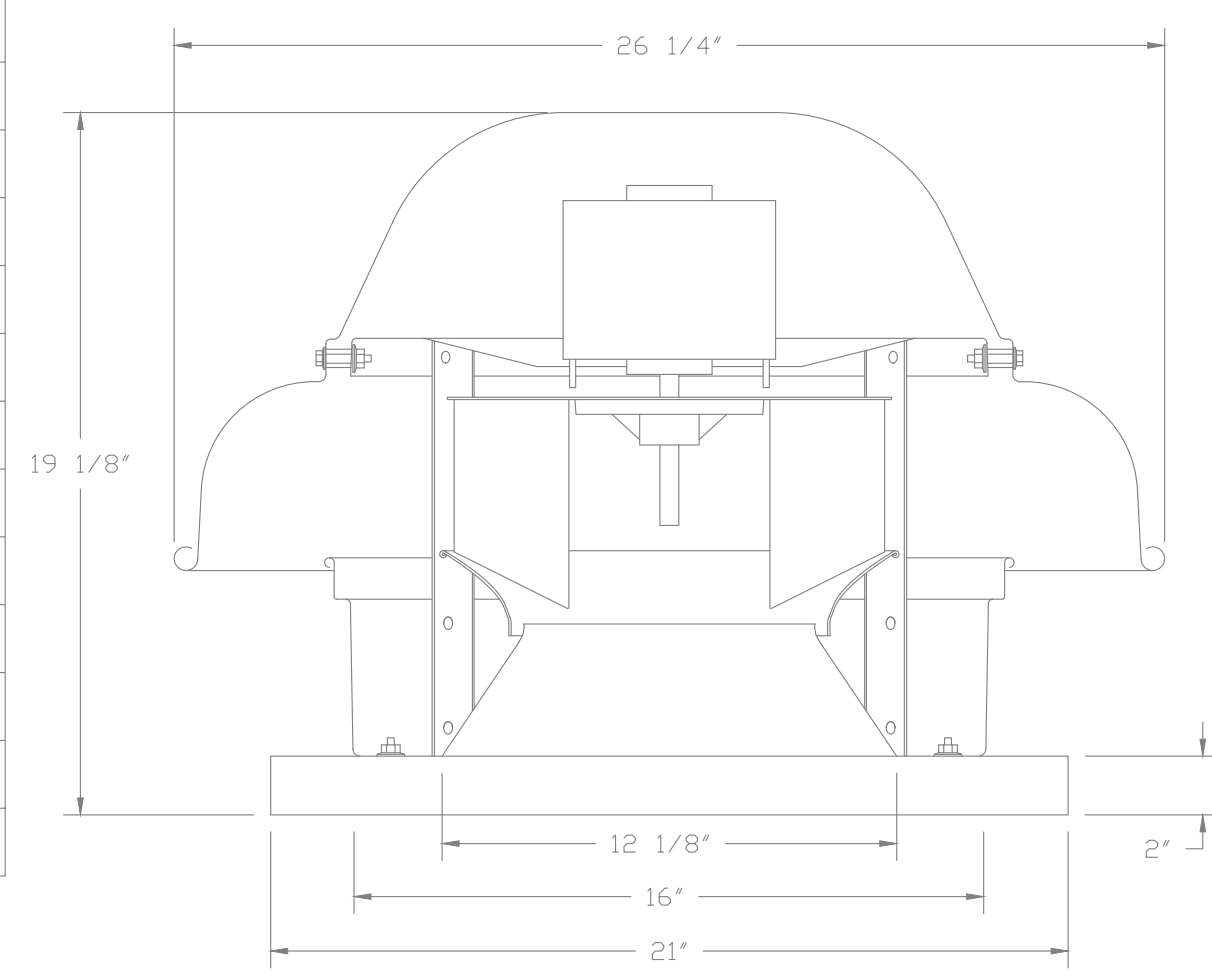
FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	EF-C1 K-0002355	1	HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS
		1	I 15-BDD DAMPER
		1	2 YEAR PARTS WARRANTY
2	EF-E1 K-0002355	1	HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS
		1	I 15-BDD DAMPER
		1	2 YEAR PARTS WARRANTY
3	EF-E2 K-0002356	1	HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS
		1	I 12-BDD DAMPER
		1	2 YEAR PARTS WARRANTY
		1	GREASE BOX
4	EF-G1 K-0048398	1	ECM WIRING PACKAGE - MANUAL DR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION
		1	HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS
		1	2 YEAR PARTS WARRANTY
		1	GREASE BOX
5	EF-G2 K-0048398	1	ECM WIRING PACKAGE - MANUAL DR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION
		1	HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS
		1	2 YEAR PARTS WARRANTY
		1	GREASE BOX
6	EF-K1 K-0069366	1	HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS
		1	2 YEAR PARTS WARRANTY
7	EF-M2 K-0002357	1	HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS
		1	I 12-BDD DAMPER
		1	2 YEAR PARTS WARRANTY
8	EF-R1 K-0002355	1	HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS
		1	I 15-BDD DAMPER
		1	2 YEAR PARTS WARRANTY
9	EF-R2 K-0002356	1	HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS
		1	I 12-BDD DAMPER
		1	2 YEAR PARTS WARRANTY
		1	I 12-BDD DAMPER
10	EF-R3 PNET42845	1	HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS
		1	ECM WIRING PACKAGE - MANUAL DR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION
		1	2 YEAR PARTS WARRANTY
11	EF-S1 K-0002357	1	HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS
		1	I 12-BDD DAMPER
		1	2 YEAR PARTS WARRANTY
12	EF-S2 K-0002357	1	HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS
		1	I 12-BDD DAMPER
		1	2 YEAR PARTS WARRANTY

FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST				SUPPLY		
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	EF-C1 K-0002355		YES					
2	EF-E1 K-0002355		YES					
3	EF-E2 K-0002356		YES					
4	EF-G1 K-0048398	YES						
5	EF-G2 K-0048398	YES						
6	EF-K1 K-0069366	YES						
7	EF-M2 K-0002357		YES					
8	EF-R1 K-0002355		YES					
9	EF-R2 K-0002356		YES					
10	EF-R3 PNET42845		YES					
11	EF-S1 K-0002357		YES					
12	EF-S2 K-0002357		YES					

FANS #1 (EF-C1 K-0002355), #2 (EF-E1 K-0002355), #8 (EF-R1 K-0002355) - DR30HFA EXHAUST FAN



TOP VIEW

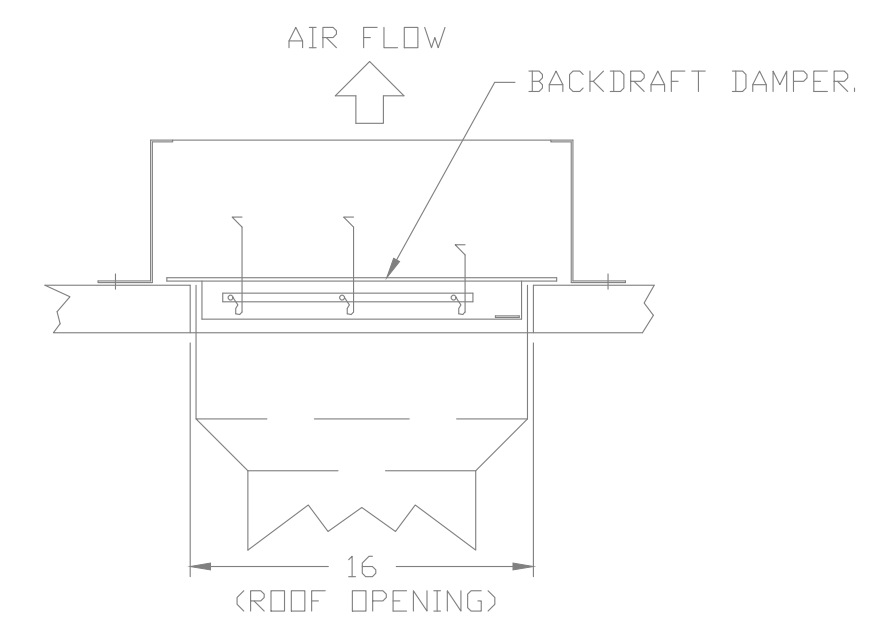
FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- UL705.
- SAFETY DISCONNECT.
- STANDARD BIRD SCREEN.
- SPEED CONTROL.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).

OPTIONS:

- HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS.
- I 15-BDD DAMPER.
- 2 YEAR PARTS WARRANTY.

BACKDRAFT DAMPER INSTALLATION



REVISIONS

NO.	DESCRIPTION	DATE

CAPTIVE

DESIGNED: SJM
CHECKED: CNP
JOB NO.: K9201.1
DATE: 05/23/2024

KROGER 808 EATON, OH KVS R2
Eaton, OH, 45320

DATE: 4/1/2024
DWG.#: 6609576
DRAWN BY: ZDH
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 5

No.	Date	Revision

Designed: SJM
Checked: CNP
Job No.: K9201.1
Date: 05/23/2024 © 2024

MECHANICAL HOOD DETAILS
Eaton, OH E. Jackson Road & N Barron Street Development
1705 N Barron St. Eaton, Ohio 45320

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS.

REVISIONS

NO.	DESCRIPTION	DATE

CAPTIVE
National Accounts
www.captiveair.com
4641 Parragon Park Rd., Raleigh, NC 27616 PHONE: (919) 882-2410 FAX: 9192275948 EMAIL: req15@captiveair.com

No.	Date	Revision

Designed: SJM
Drawn: CNP
Checked: SJM
Job No.: K9201.1
Date: 05/23/2024 © 2024

KROGER 808 EATON, OH KVS R2
Eaton, OH, 45320

DATE: 4/1/2024
DWG.#: 6609576
DRAWN BY: ZDH
SCALE: 3/4" = 1'-0"
MASTER DRAWING

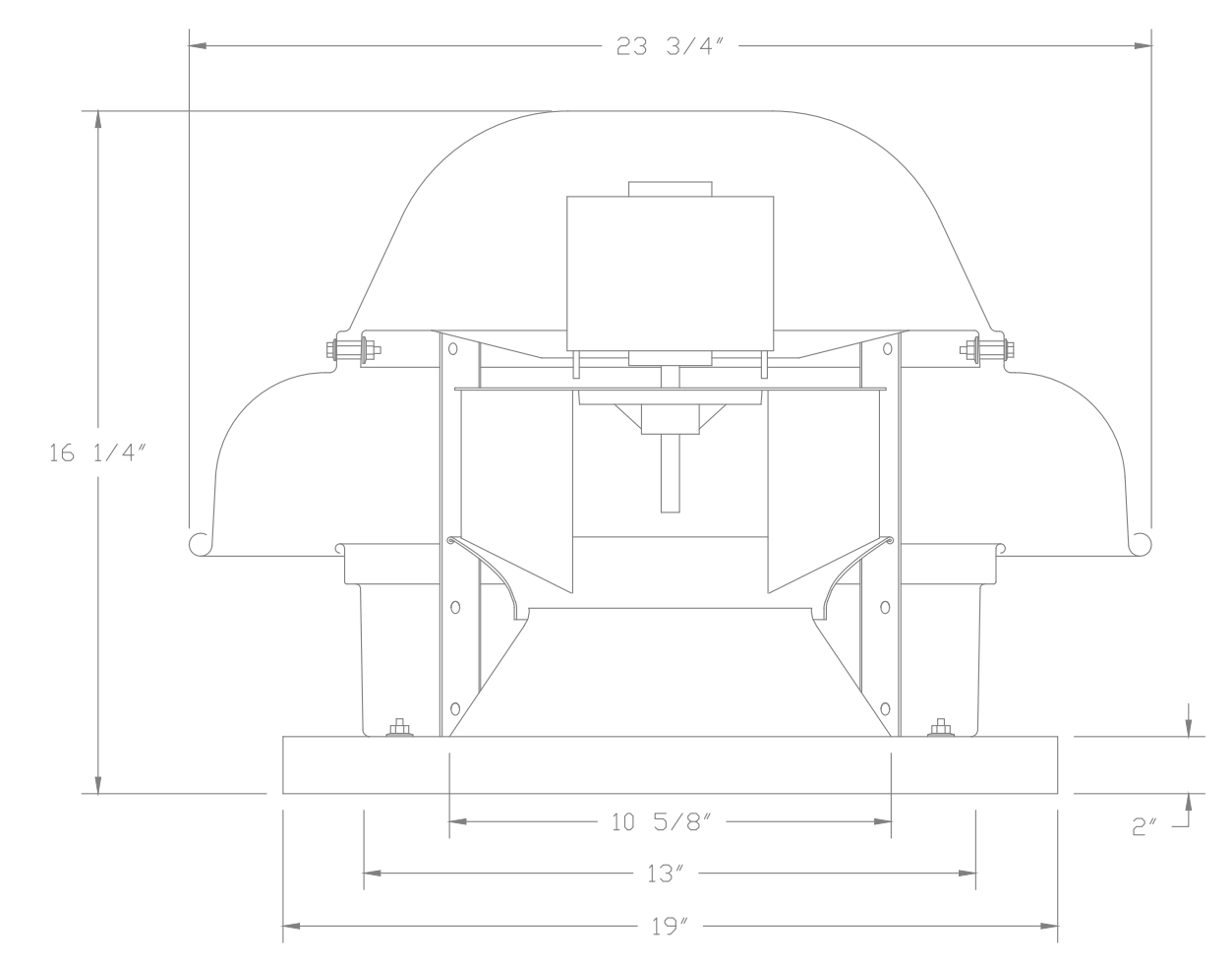
SHEET NO.
6

MECHANICAL HOOD DETAILS
Eaton, OH E. Jackson Road & N Barron
Street Development
1705 N Barron St. Eaton, Ohio 45320

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS.

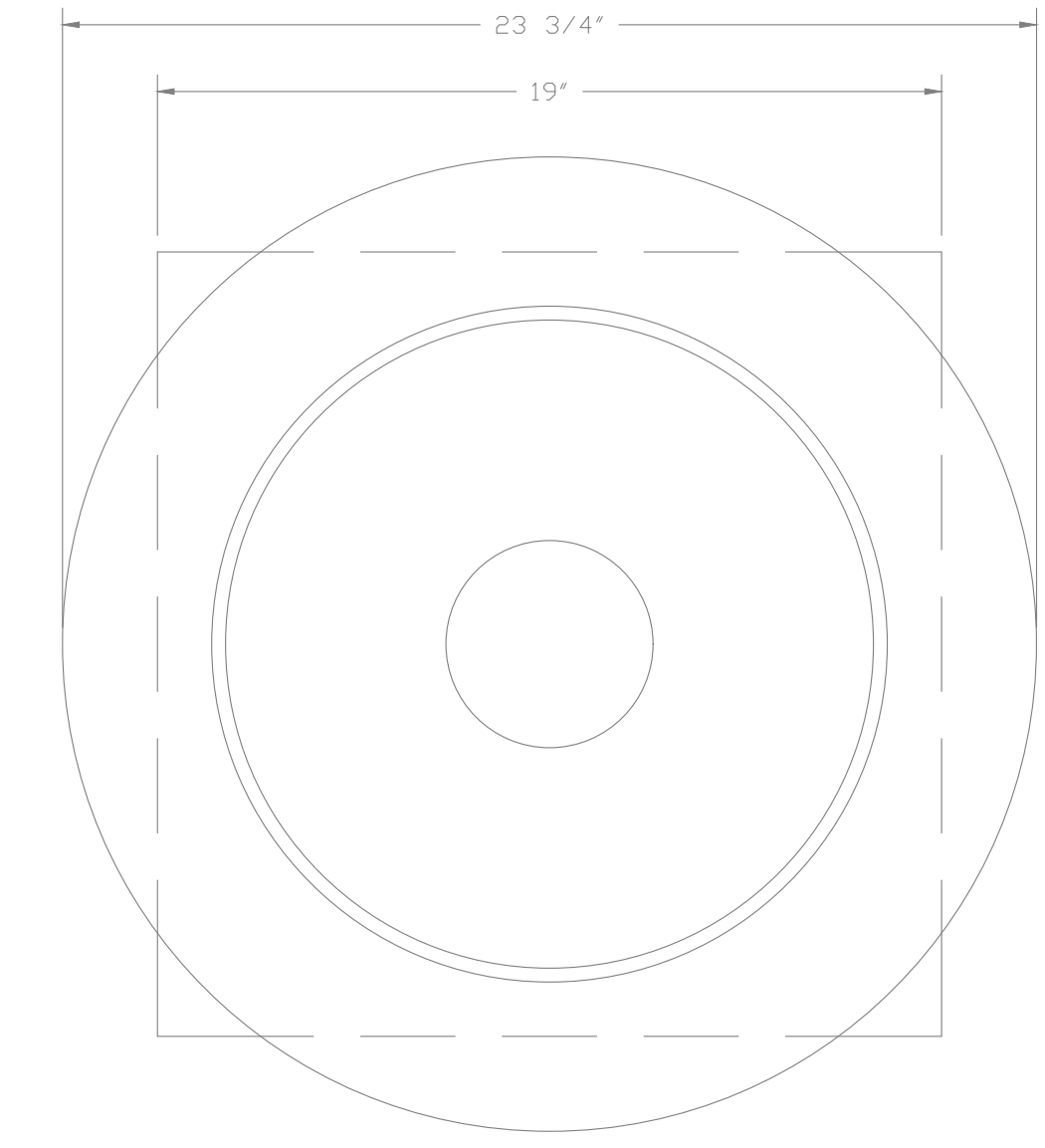
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M5.7

FANS #3 (EF-FR K-0002356), #7 (EF-M2 K-0002357), #9 (EF-R2 K-0002356), #11 (EF-S1 K-0002357), #12 (EF-S2 K-0002357) - DRI2HFA EXHAUST FAN



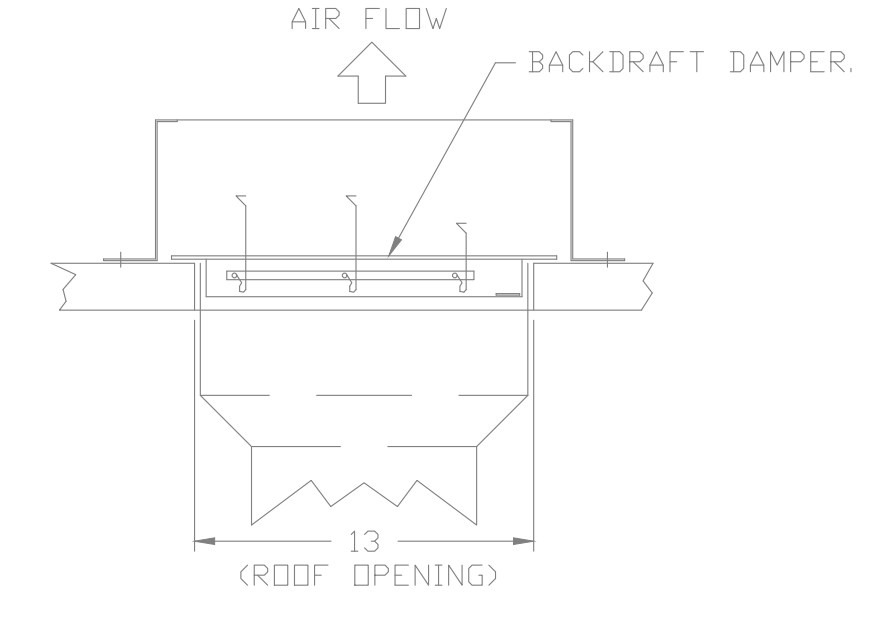
- FEATURES:**
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
 - ROOF MOUNTED FANS.
 - UL705.
 - SAFETY DISCONNECT.
 - STANDARD BIRD SCREEN.
 - SPEED CONTROL.
 - THERMAL OVERLOAD PROTECTION (SINGLE PHASE).

- OPTIONS**
- HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS.
 - 1 1/2-BD DAMPER.
 - 2 YEAR PARTS WARRANTY.

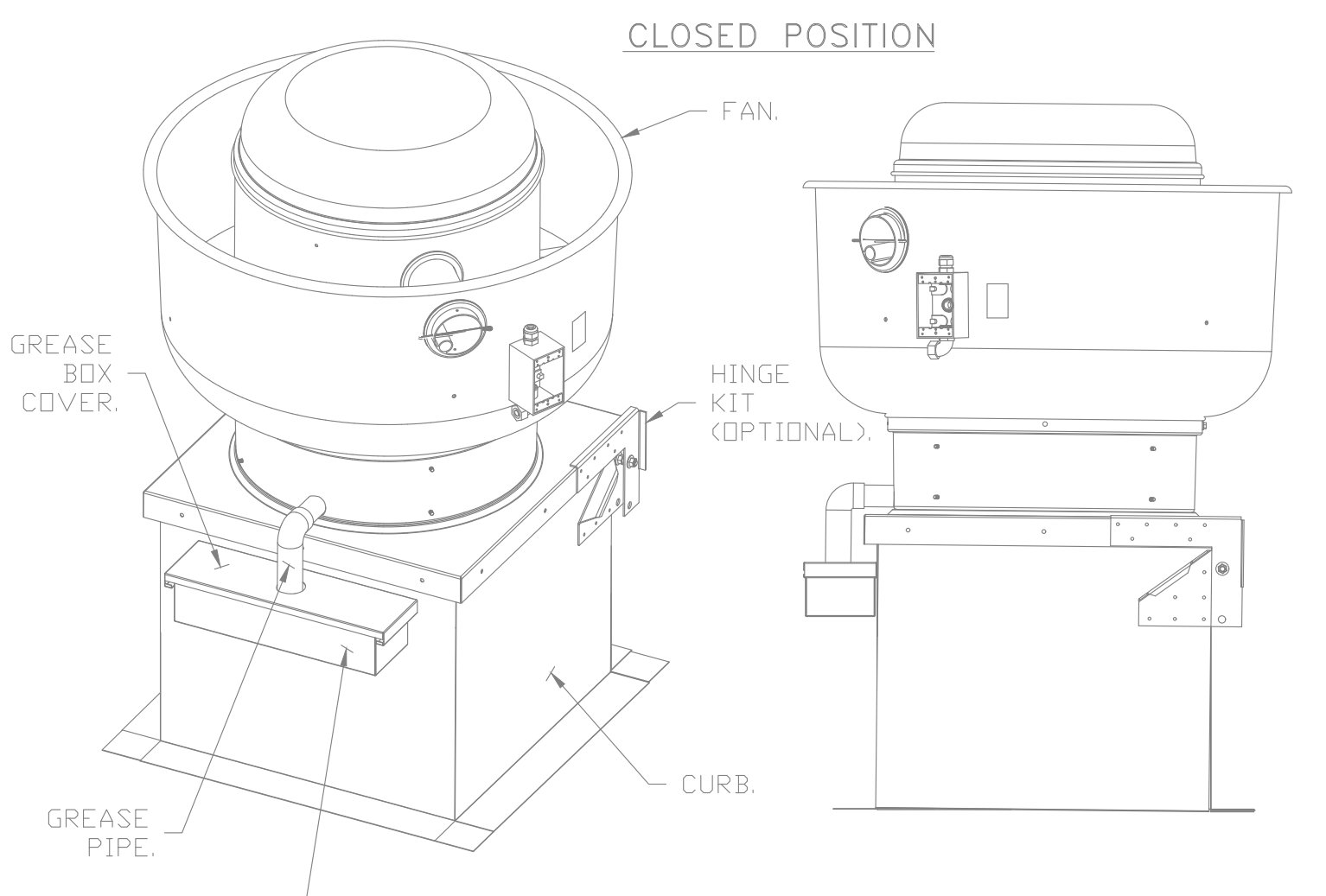


TOP VIEW

BACKDRAFT DAMPER INSTALLATION



GREASE BOX INSTALLATION

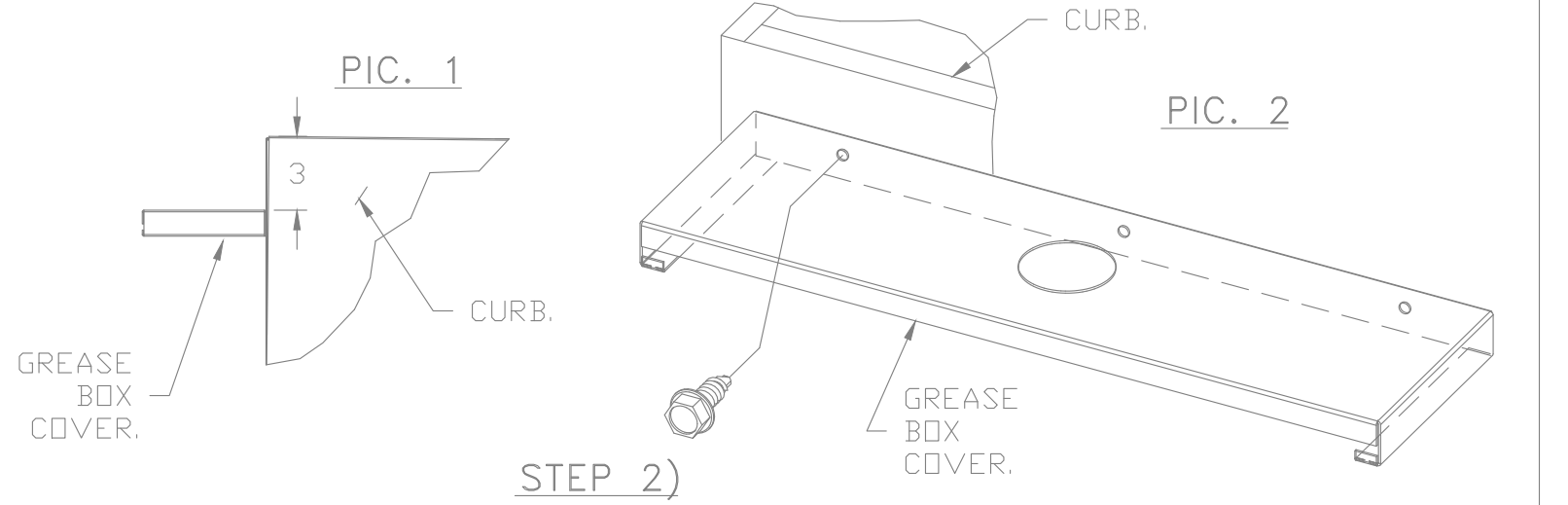


PARTS INCLUDED

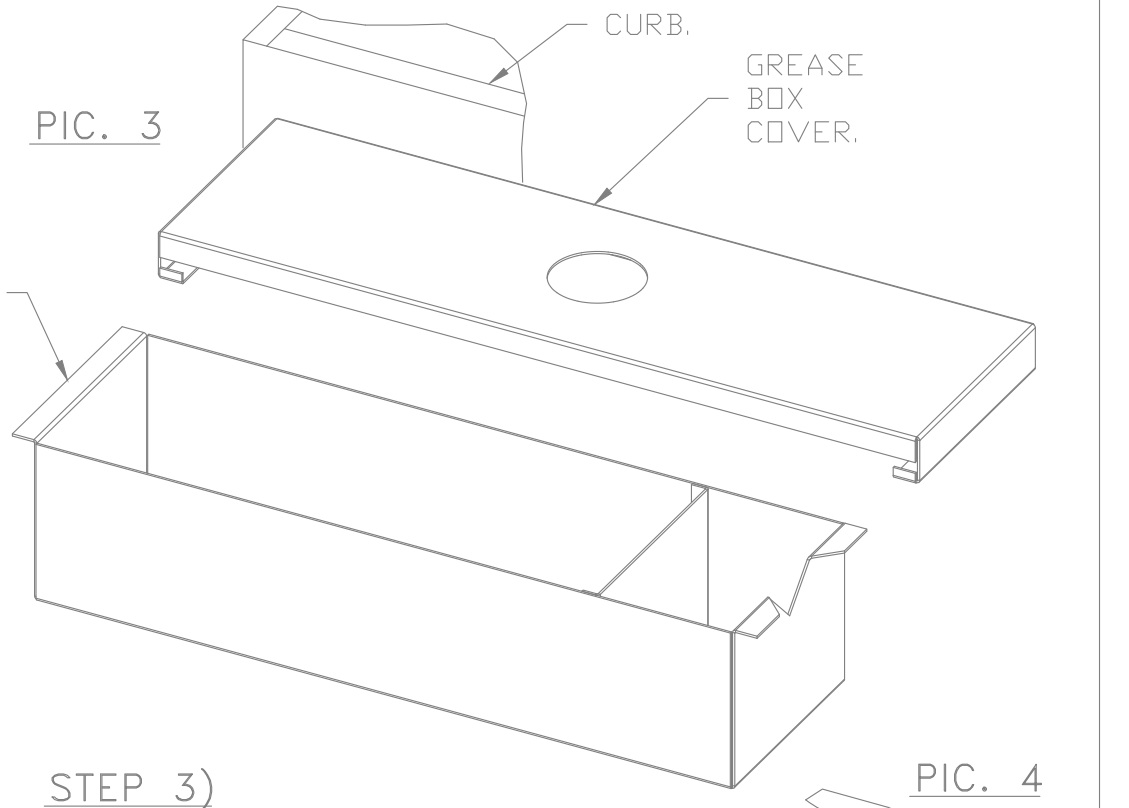
- GREASE BOX.
- GREASE BOX COVER.
- GREASE PIPE.
- SHEET METAL SCREWS
3 - LONG (3/4" LG.).

GREASE BOX FIELD INSTALLATION

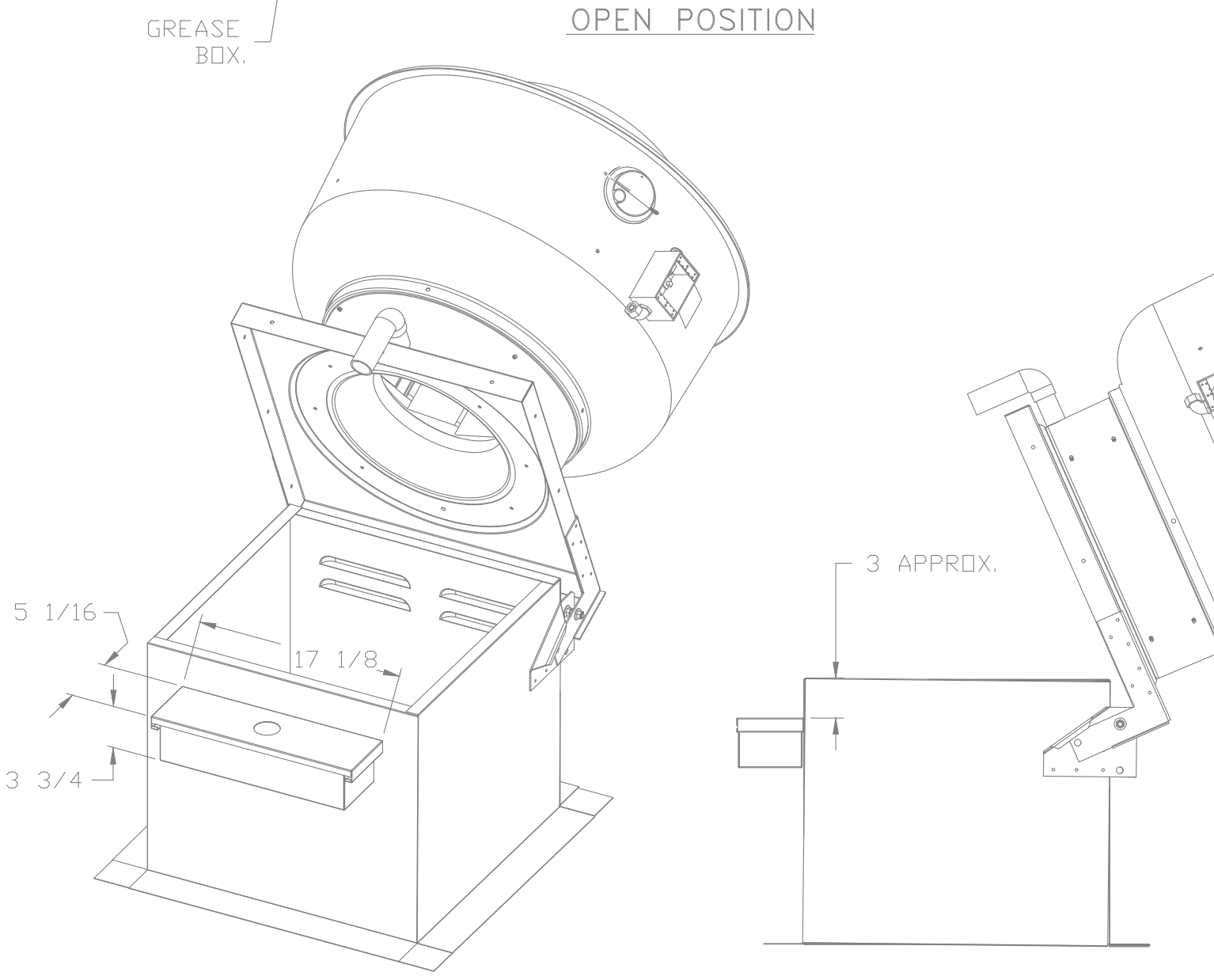
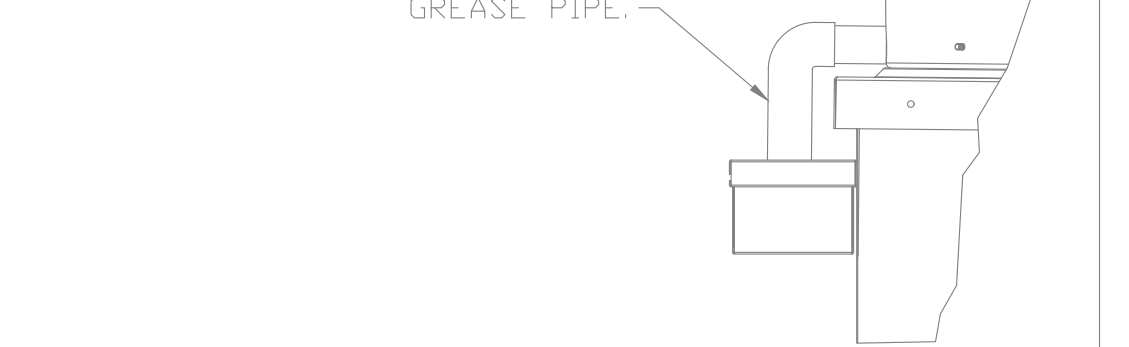
STEP 1)
ATTACH GREASE BOX COVER TO THE CURB, HOLD 3" DIMENSION AS SHOWN ON PIC. 1. SCREW GREASE BOX COVER TO CURB USING (3) LONG (3/4" LG.) SCREWS AS SHOWN ON PIC. 2.



STEP 2)
ATTACH GREASE BOX TO GREASE BOX COVER, SLIDE AND DROP AS SHOWN ON PIC. 3.

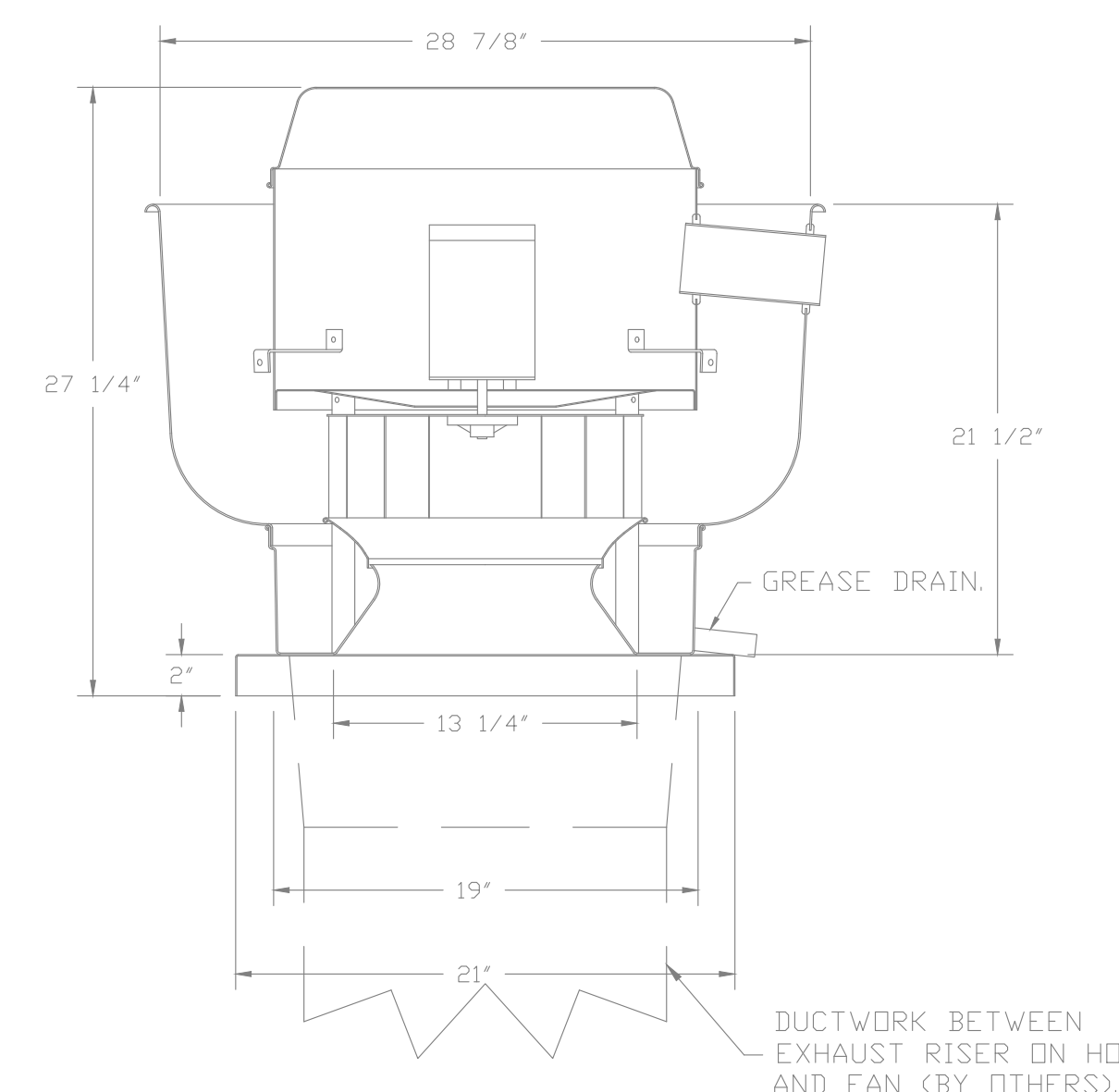


STEP 3)
INSTALL GREASE PIPE AS SHOWN ON PIC. 4.



*NOTE: UL 705 INSTALL.

FANS #4 (EF-G1 K-0048398), #5 (EF-G2 K-0048398) - DU50HFA EXHAUST FAN



FEATURES:

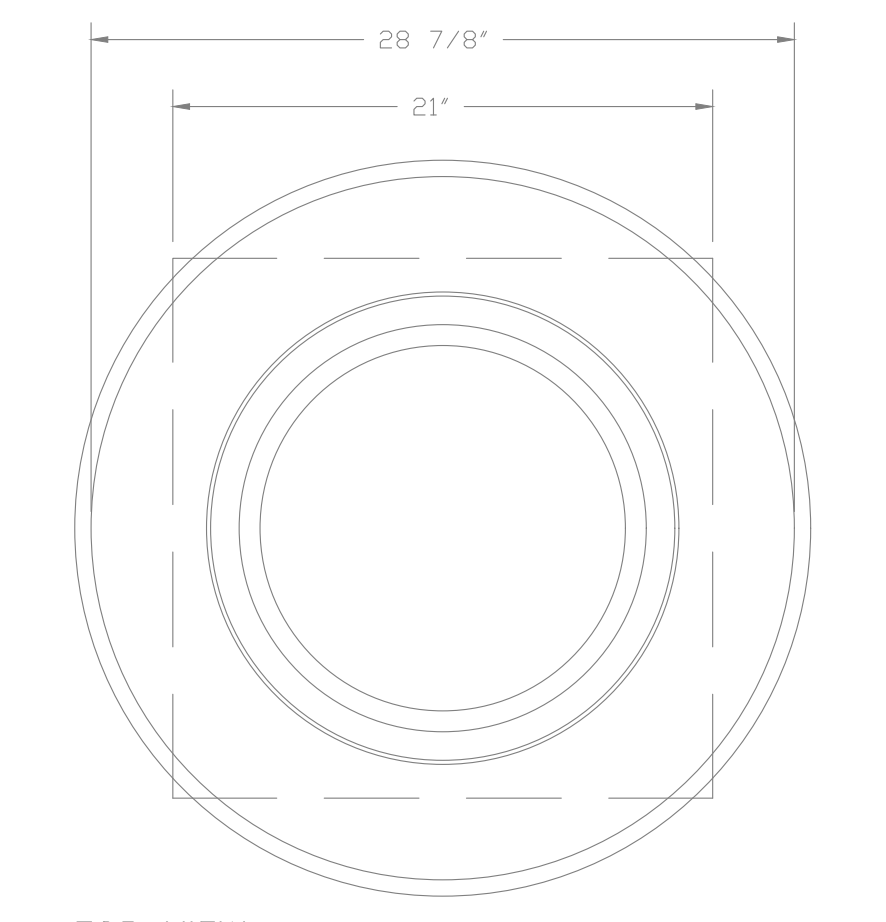
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-5645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

- GREASE BOX
- ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL
- RTC - FIELD MOTORS, CCW ROTATION
- HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS.
- 2 YEAR PARTS WARRANTY.



TOP VIEW

