

FOR QUESTIONS, CALL THE
 Florida National Accounts
 REGION 60
 PHONE: (407) 682 - 3100
 EMAIL: reg60@captiveaire.com

HOOD INFORMATION - JOB#7327017

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	END TO END	RDW
1	GRIDDLE HOOD	3347 BD-2	CAPTIVEAIRE	5' 6"	600 DEG	I	HEAVY	273	1500			4'	12"	1500	1910	-1.412"	430 SS WHERE EXPOSED	ALONE	ALONE
2	FRYER HOOD	3347 BD-2	CAPTIVEAIRE	7' 0"	600 DEG	I	HEAVY	214	1500			4'	12"	1500	1910	-1.090"	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WEIGHT	
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM	ELECTRICAL			SWITCHES
1	GRIDDLE HOOD	CAPTRATE SOLO FILTER	4	16"	16"	85% SEE FILTER SPEC	4	L55 SERIES E26	NO						YES	244 LBS
2	FRYER HOOD	CAPTRATE SOLO FILTER	5	16"	16"	85% SEE FILTER SPEC	4	L55 SERIES E26	NO						YES	290 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	GRIDDLE HOOD	FIELD WRAPPER 14.00' HIGH FRONT, LEFT, RIGHT.
		RIGHT QUARTER END PANEL 23' TOP WIDTH, 0' BOTTOM WIDTH, 23' HIGH 430 SS.
		LEFT QUARTER END PANEL 23' TOP WIDTH, 0' BOTTOM WIDTH, 23' HIGH 430 SS.
		SENSOR-CV.
2	FRYER HOOD	FIELD WRAPPER 14.00' HIGH FRONT, LEFT, RIGHT.
		RIGHT QUARTER END PANEL 23' TOP WIDTH, 0' BOTTOM WIDTH, 23' HIGH 430 SS.
		LEFT QUARTER END PANEL 23' TOP WIDTH, 0' BOTTOM WIDTH, 23' HIGH 430 SS.
		SENSOR-CV.

WALL-MOUNT UTILITY CABINET

HOOD NO	LOCATION	SIZE	UTILITY CABINET(S)			WEIGHT
			FIRE SYSTEM	ELECTRICAL	SWITCHES	
1	WALL MNT	12"x60"x24"	TANK FS	4.0/4.0/4.0	SC-E012011MA 1 LIGHT 1 FAN	440.00 LBS

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

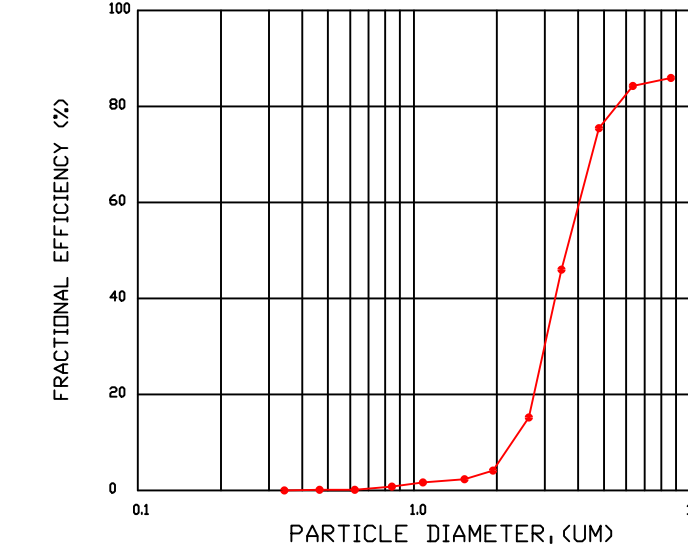
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

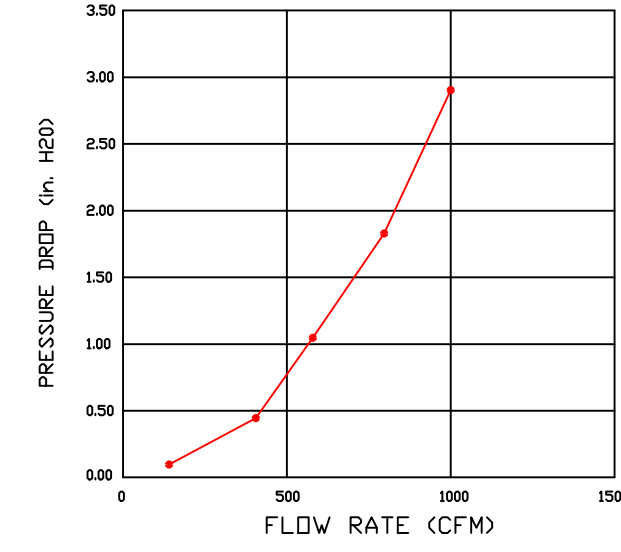
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

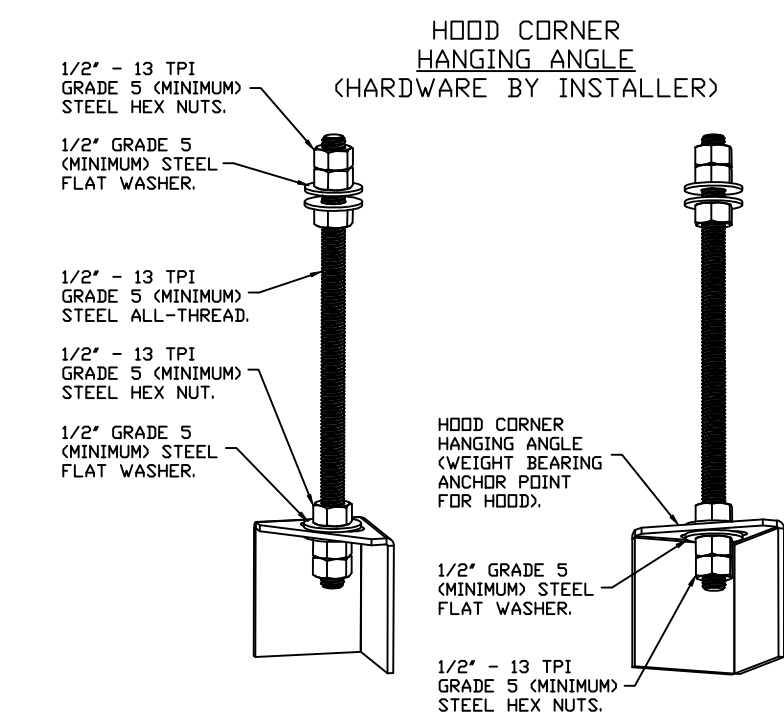
EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
 NFPA #96.
 NSF STANDARD #2.
 UL STANDARD #1046.
 INT. MECH. CODE (IMC).
 ULC-S649.



ASSEMBLY INSTRUCTIONS

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.

REVISIONS

DESCRIPTION	DATE



CULVERS HIGHPOINT NC REV1
 HIGH POINT, NC, 27265

DATE: 5/8/2025

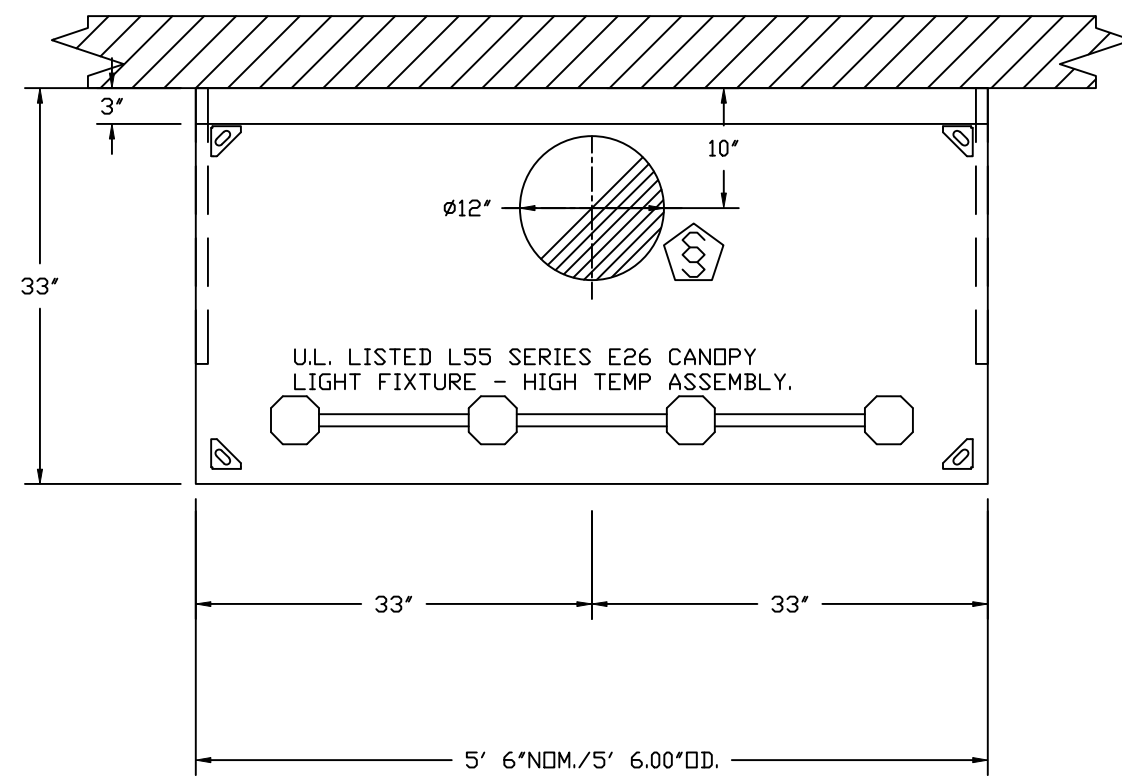
DWG.#: 7327017

DRAWN BY: sluddy jr

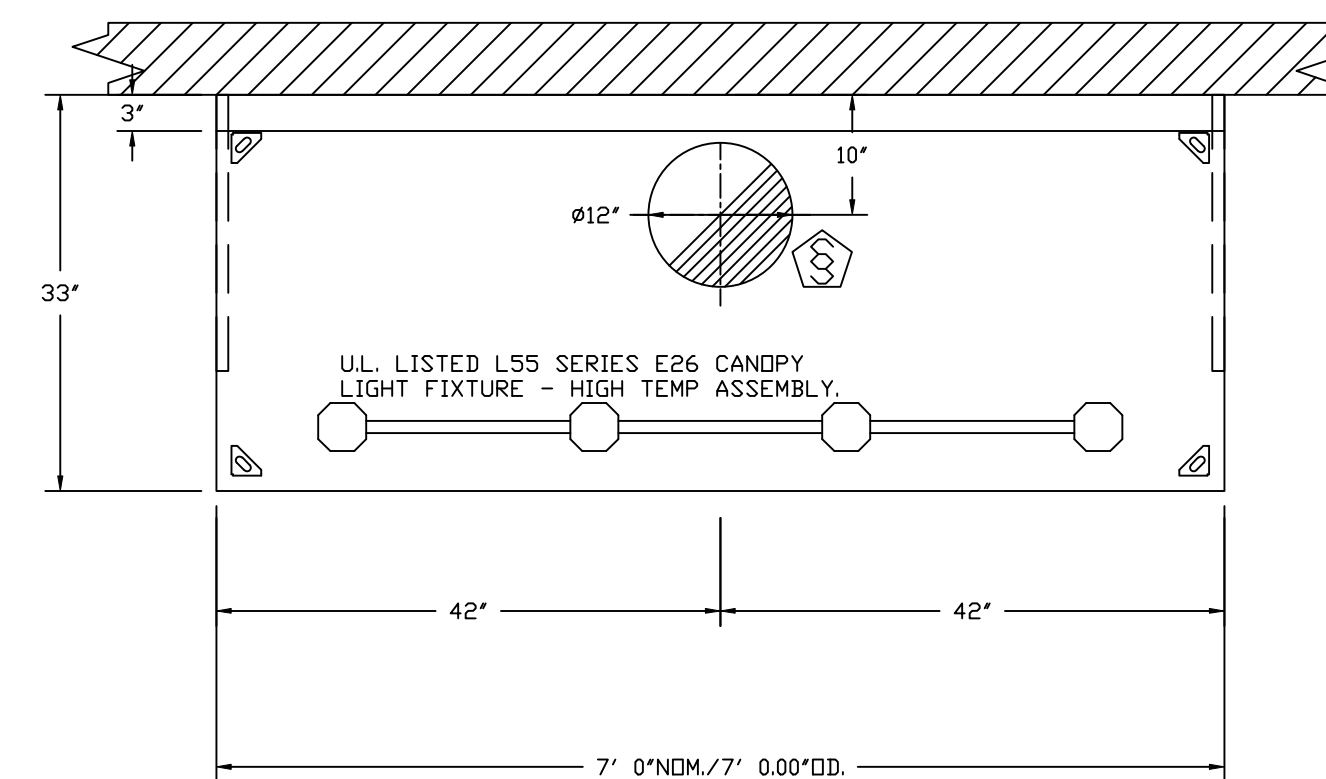
SCALE: 3/4" = 1'-0"

MASTER DRAWING

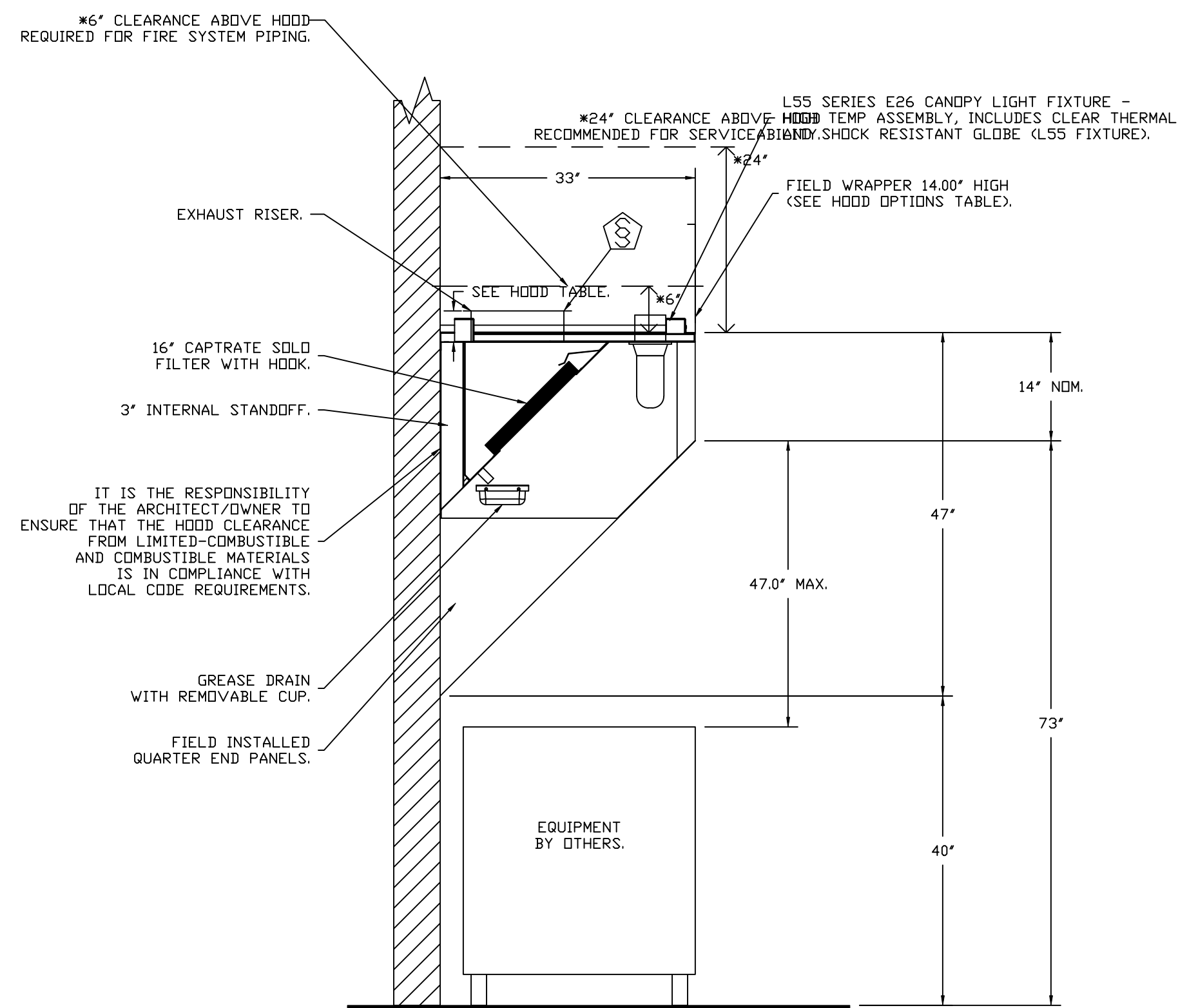
SHEET NO. 1



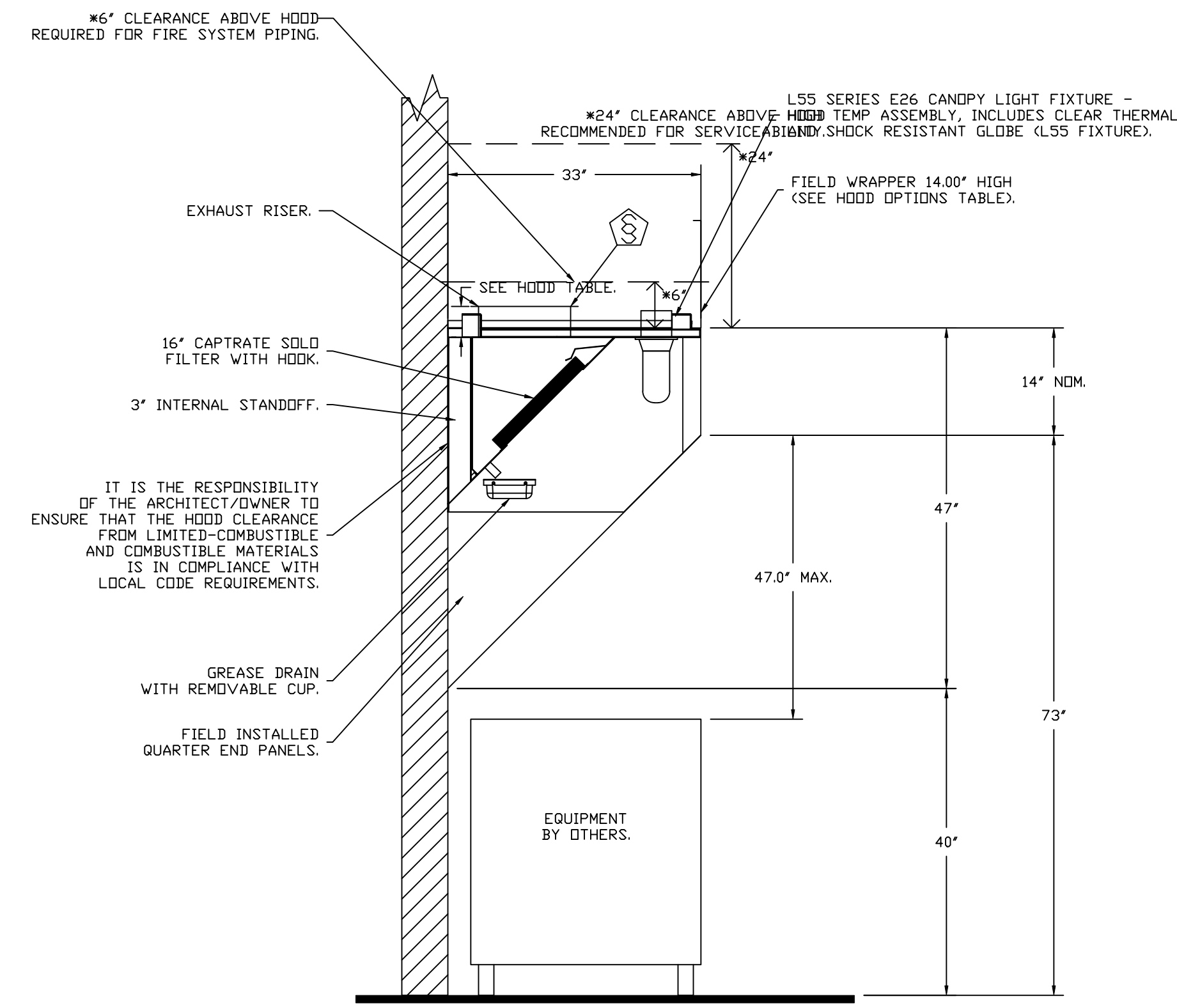
PLAN VIEW - HOOD #1 (GRIDDLE HOOD)
5' 6.00" LONG 3347BD-2



PLAN VIEW - HOOD #2 (FRYER HOOD)
7' 0.00" LONG 3347BD-2



SECTION VIEW - MODEL 3347BD-2
HOOD - #1 (GRIDDLE HOOD)



SECTION VIEW - MODEL 3347BD-2
HOOD - #2 (FRYER HOOD)

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CAPTIVE

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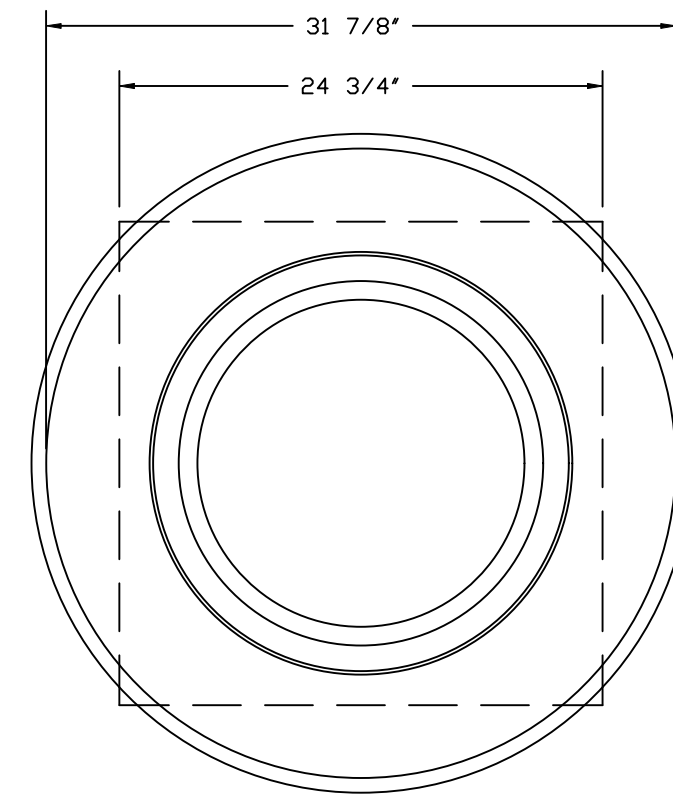
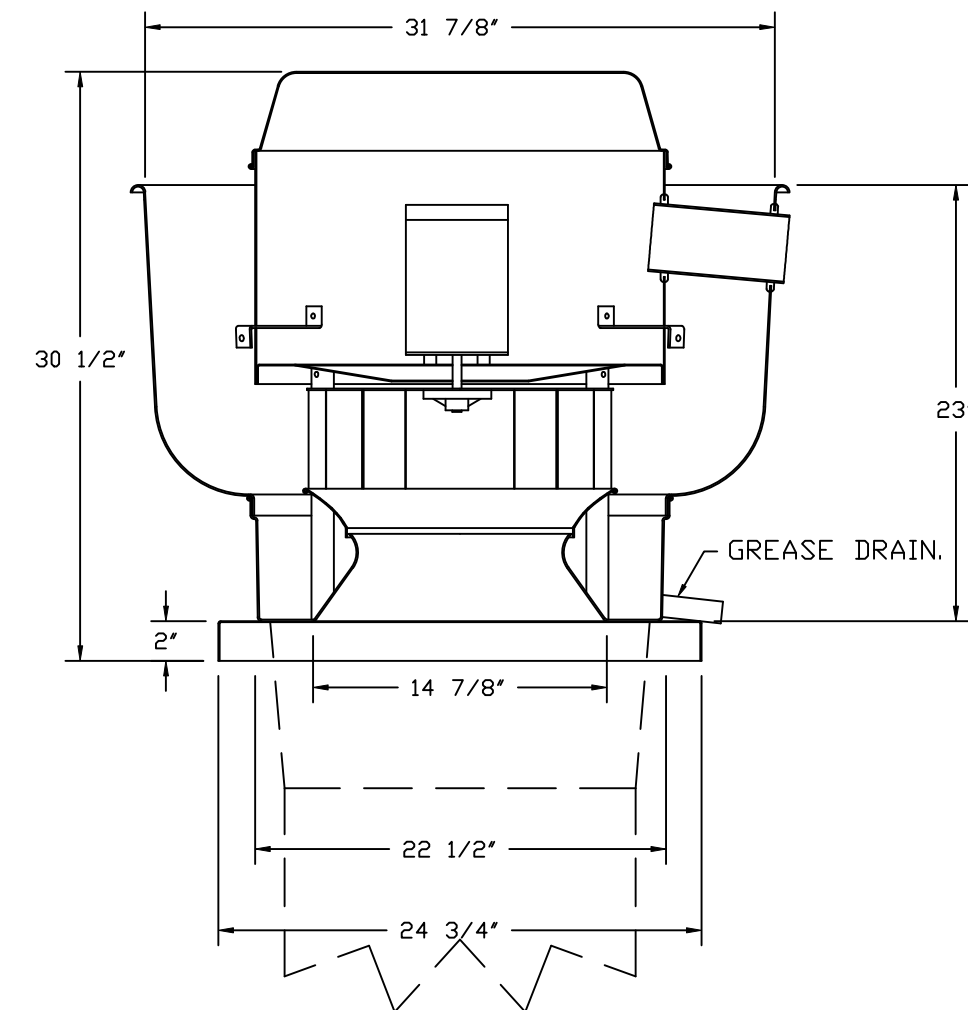
MASTER DRAWING

SHEET NO.
2

EXHAUST FAN INFORMATION – JOB#7327017

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SDNES
1	PRV-1 RESTROOM	1	DR12HFA	CAPTIVEAIRE	450	0.500	1466	TEAO-ECM	0.250	0.1350	1	115	2.9		85	8.2
2	PRV-2 GRIDDLE	1	DU85HFA	CAPTIVEAIRE	1500	1.800	1538	TEAO-ECM	1.000	0.6990	1	115	11.6	475 FPM	129	14.8
3	PRV-3 FRYER	1	DU85HFA	CAPTIVEAIRE	1500	1.250	1348	TEAO-ECM	1.000	0.4700	1	115	11.6	475 FPM	129	11.3
4	EF-1	1	CFA 100CA	CAPTIVEAIRE	75	0.125	493	GENERALPURPOSE	0.116	0.0510	1	115	1.1		26	N/A

FANS #2 (PRV-2 GRIDDLE), #3 (PRV-3 FRYER) – DU85HFA EXHAUST FAN



TOP VIEW

FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- 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

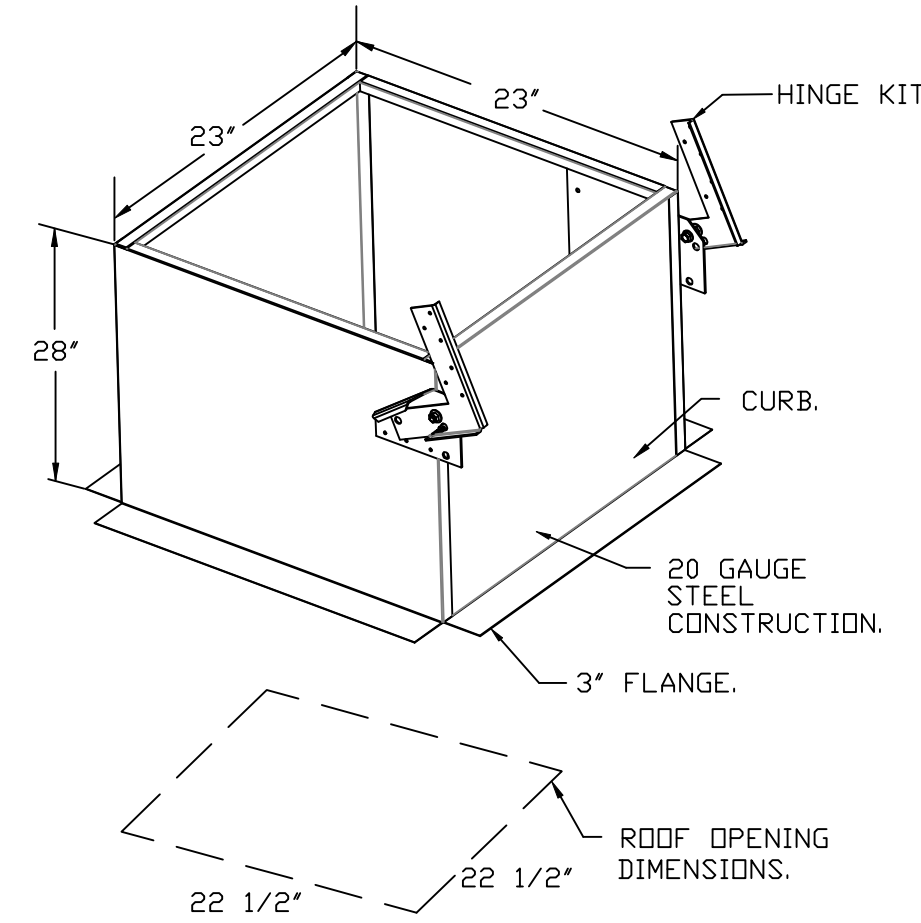
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST

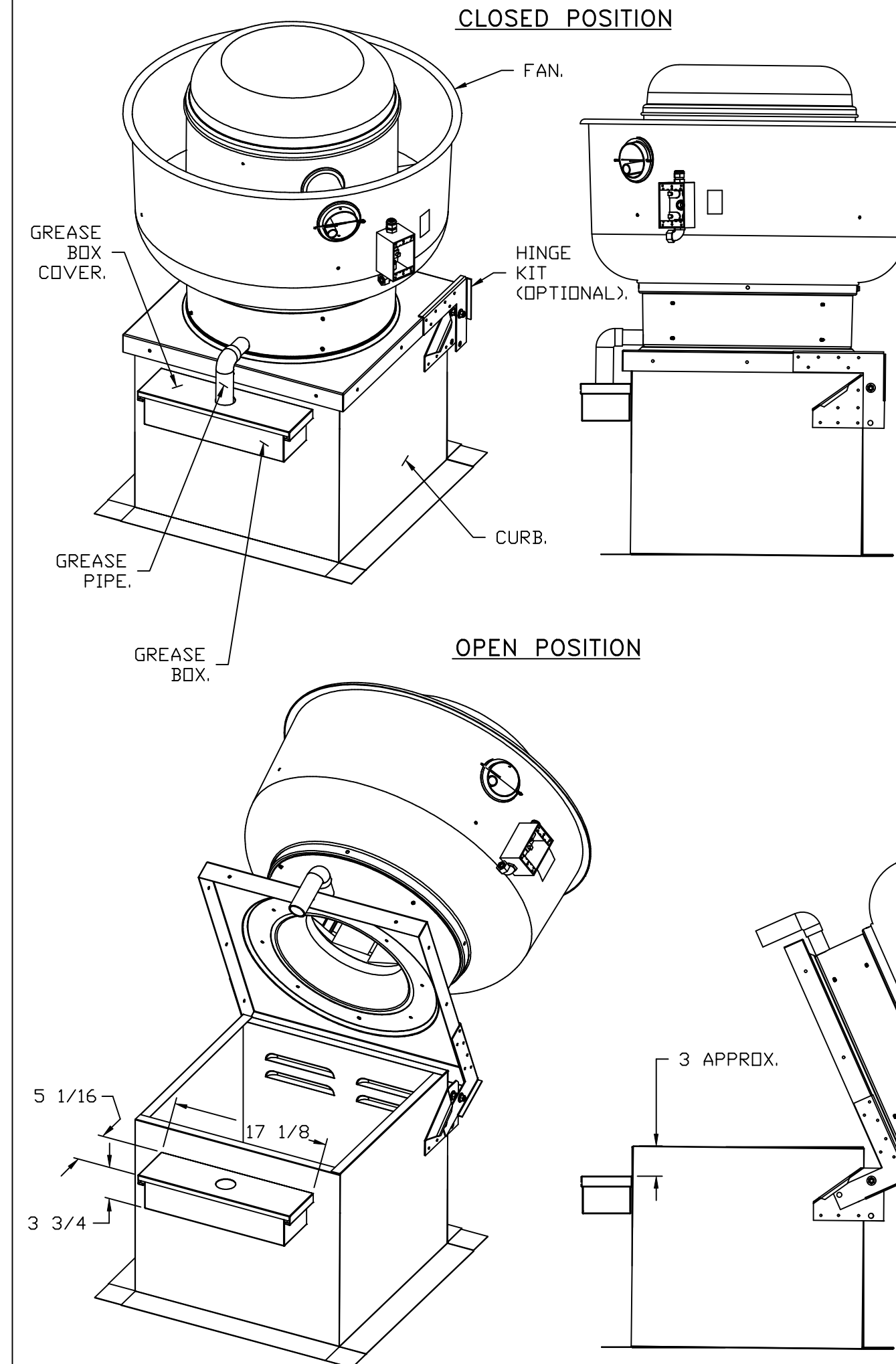
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

- GREASE BOX.
- FAN BASE CERAMIC SEAL – DU/DR85HFA
- INSTALLED AT PLANT – FOR GREASE DUCTS.
- ECM WIRING PACKAGE – MANUAL OR 0-10VDC REFERENCE SPEED CONTROL
- RTC – (TELED MOTOR), CCW ROTATION.
- FULL CRATING FOR EXHAUST FANS.
- 2 YEAR PARTS WARRANTY.



GREASE BOX INSTALLATION



*NOTE: UL 705 INSTALL.

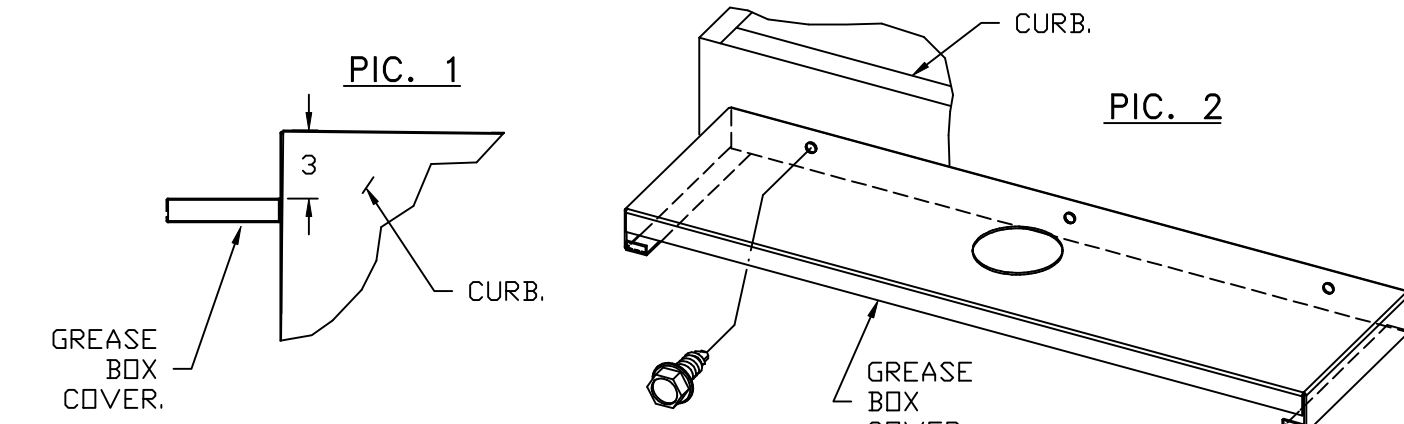
PARTS INCLUDED

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

GREASE BOX FIELD INSTALLATION

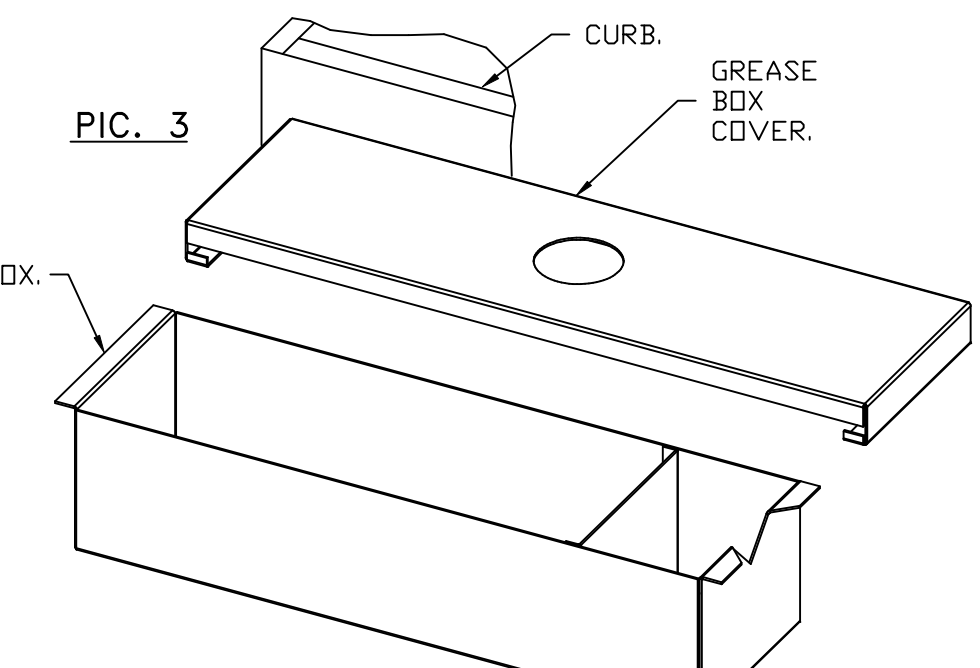
STEP 1)

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.



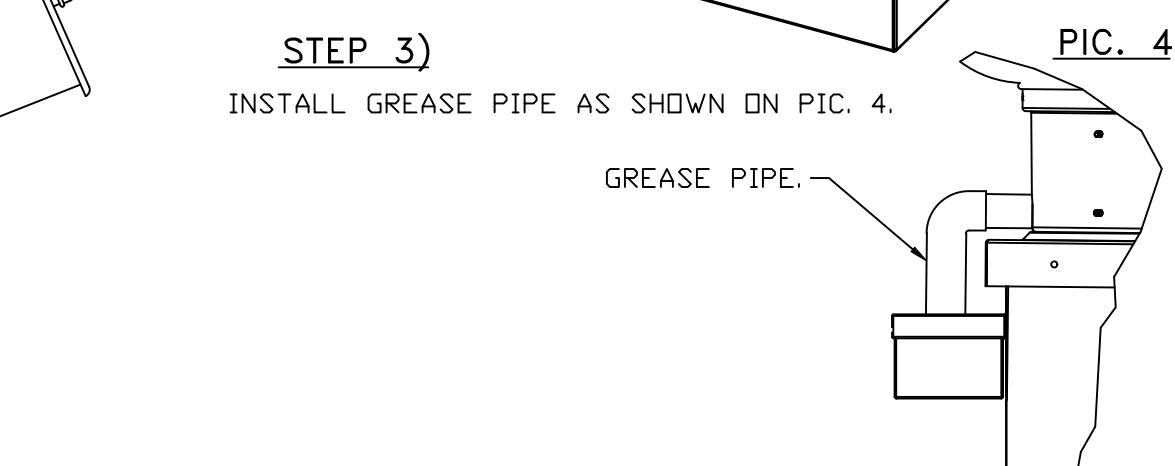
STEP 2)

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.



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4

DOAS/RTU FAN SCHEDULE -- JOB#7327017

FAN INFORMATION													ELECTRICAL INFORMATION				COOLING INFORMATION							REHEAT INFORMATION				GAS HEAT INFORMATION				AEL MINIMUM ROOM VOLUME			NOTES					
FAN UNIT NO	TAG	QTY	DOAS/RTU MODEL #	MANUFACTURER	BLOWER	RETURN AIR CFM	MAX OUTSIDE AIR CFM	TOTAL CFM	WEIGHT (LBS)	ESP	HP	PHASE	VOLT	MCA	MDCP	OUTSIDE AIR DB	MIXED AIR WB	LEAVING AIR DB	WB	DP	TOTAL CAPACITY	SENS.	IEER	ISMRE2	DISCHARGE DB	WB	CAPACITY DESIRED	MAX	MOISTURE REMOVAL RATE	GAS TYPE	INPUT BTU/LB	OUTPUT BTU/LB	TEMP RISE	REQUIRED INPUT GAS PRESSURE		ROOM AREA (FT2)	AIRFLOW (CFM)	HEIGHT (FT)		
5	RTU-1 DINING	1	CAS-HVAC3-1.300-24-20T	CAPTIVEAIRE	24MF-3-RTU	4000	2000	6000	2776	1.250	10.00	3	208	103.1A	125A	87.3°F	76.6°F	79.1°F	67.4°F	53.1°F	53.1°F	53.2°F	251.7 MBH	162.0 MBH	18.2	7.9	70.0°F	60.1°F	110.6 MBH	29.6 MBH	82.2 LBS/HR	NATURAL	279369	226289	35°F	7 IN. W.C. - 14 IN. W.C.	572.7	1031	7.2	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19
6	RTU-1 KITCHEN	1	CAS-HVAC3-1.300-24-20T	CAPTIVEAIRE	24MF-3-RTU	4000	2000	6000	2776	1.250	10.00	3	208	103.1A	125A	87.3°F	76.6°F	79.1°F	67.4°F	53.1°F	53.1°F	53.2°F	251.7 MBH	162.0 MBH	18.2	7.9	70.0°F	60.1°F	110.6 MBH	29.6 MBH	82.2 LBS/HR	NATURAL	199549	161635	25°F	7 IN. W.C. - 14 IN. W.C.	572.7	1031	7.2	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19

NOTES:
 1. INVERTER SCROLL COMPRESSOR WITH INTEGRATED OIL SENSOR. DIGITAL OR STAGED SCROLL NOT AN APPROVED EQUAL
 2. DIRECT DRIVE PLENUM BLOWER. BELT DRIVEN BLOWERS ARE NOT ACCEPTABLE
 3. INTEGRATED MONITORING VIA CELLULAR CONNECTION BY MANUFACTURER
 4. REFRIGERATION PRESSURE MONITORING ON HIGH AND LOW PRESSURE SIDE OF SYSTEM INCLUDED THROUGH DIGITAL INTERFACE
 5. EC MOTOR CONDENSING FANS
 6. ELECTRONIC EXPANSION VALVE. TXV NOT ACCEPTABLE
 7. SUCTION LINE ACCUMULATOR
 8. FACTORY COMMISSIONING WITH 5 YEAR PARTS WARRANTY, 25 YEAR WARRANTY ON STAINLESS STEEL HEAT EXCHANGER
 9. AVERAGING INTAKE, EVAP AND DISCHARGE TEMPERATURE SENSORS (DISCHARGE SENSOR TO BE FACTORY MOUNTED WITHIN UNIT)
 10. 2" EXTERIOR DUAL-WALL CONSTRUCTION 1/2" R-13 INSULATION-MINIMUM 20GA EXTERIOR 1/4" 14GA BASE
 11. 81% EFFICIENT FURNACE, WITH MODULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE. 6:1 TURNDOWN WITH NG AND 5:1 TURNDOWN WITH LP
 12. SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE
 13. FULLY MODULATING HOT GAS REHEAT
 14. 15 DEGREE LDW AMBIENT OPERATION
 15. HALL GUARD FOR CONDENSING COIL
 16. RTU ECONOMIZER WITH FIXED ENTHALPY CONTROL
 17. BAROMETRIC RELIEF DAMPER
 18. DOWN DISCHARGE/DOWN RETURN
 19. MINIMUM ROOM AREA ASSUMED 7.2' SUPPLY DIFFUSER HEIGHT AND IS CALCULATED PER UL60335-2-40 4TH ED. VALUES BASED ON FACTORY CHARGE. ACTUAL SITE CHARGE MAY DIFFER.

FAN ACCESSORIES

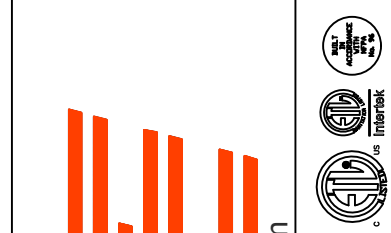
FAN UNIT NO	TAG	EXHAUST				SUPPLY		
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	PRV-1 RESTROOM		YES					
2	PRV-2 GRIDDLE	YES						
3	PRV-3 FRYER	YES						
4	EF-1							

CURB ASSEMBLIES

NO	DN FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	PRV-1 RESTROOM	25 LBS	CURB	17.500"W X 17.500"L X 20.000"H INSULATED.
2	# 2	PRV-2 GRIDDLE	49 LBS	CURB	23.000"W X 23.000"L X 28.000"H INSULATED HINGED.
3	# 3	PRV-3 FRYER	49 LBS	CURB	23.000"W X 23.000"L X 28.000"H INSULATED HINGED.
5	# 5	RTU-1 DINING	104 LBS	CURB	59.500"W X 91.000"L X 14.000"H 0.25012.000 PITCH ALDNG WIDTH, LEFT INSULATED.
6	# 6	RTU-1 KITCHEN	104 LBS	CURB	59.500"W X 91.000"L X 14.000"H 0.25012.000 PITCH ALDNG WIDTH, LEFT INSULATED.

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FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	PRV-1 RESTR DDM	1	1 12-BDD DAMPER
		1	ECM WIRING PACKAGE - EXHAUST - MANUAL DR 0-10VDC REFERENCE SPEED CONTROL -MSC- (TELCD), CCW ROTATION
		1	FULL CRATING FOR EXHAUST FANS
		1	2 YEAR PARTS WARRANTY
2	PRV-2 GRIDD LE	1	GREASE BOX
		1	FAN BASE CERAMIC SEAL - DU/DR85HFA - INSTALLED AT PLANT - FOR GREASE DUCTS
		1	ECM WIRING PACKAGE - MANUAL DR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCD MOTOR), CCW ROTATION
		1	FULL CRATING FOR EXHAUST FANS
3	PRV-3 FRYER	1	GREASE BOX
		1	FAN BASE CERAMIC SEAL - DU/DR85HFA - INSTALLED AT PLANT - FOR GREASE DUCTS
		1	ECM WIRING PACKAGE - MANUAL DR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCD MOTOR), CCW ROTATION
		1	FULL CRATING FOR EXHAUST FANS
4	EF-1	1	FAN CONTROL - 3 AMP WHITE SPEED CONTROL FOR CFA CEILING FAN
		1	MG1 - METAL GRILLE KIT
5	RTU-1 DININ G	1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 1 FURNACE
		1	COOLING OVERRIDE
		1	SHIP LOOSE GAS STRAINER 1"
		1	SINGLE POINT ELECTRICAL CONNECTION FOR RTU. 750VA TRANSFORMER USED. IF A NON-DCV PREWIRE CONTROLS THIS UNIT, THE #28, #47, 'MA', OR 'E2' PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE
		1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED
		1	RTU BLOWER DOOR SWITCH
		1	RTU3 DOWN DISCHARGE
		1	2" MERV 13 FILTERS FOR RTU3 (QTY. 4)
		1	2" MERV 8 FILTERS FOR RTU3 (QTY. 4)
		1	OVERHEAT STAT
		1	TOTAL CFM MONITORING
		1	VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE
		1	20 TON MODULATING COOLING OPTION, 208/230V. R454B REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS
		1	LOW AMBIENT COOLING OPERATION - DOWN TO OF AMBIENT
		1	R454B LEAK DETECTOR OPTION FOR RTUS
		1	OCCUPIED SCHEDULING
		1	INTAKE FIRESTAT SET TO 135°F
		1	FREEZESTAT
		1	DISCHARGE FIRESTAT SET TO 240°F
		1	20 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL - R454B
		1	RTU3 CURB DUCT HANGER
		1	24VAC FIRE INPUT
		1	RTU RETURN MOUNTED SMOKE DETECTOR AND SAMPLING TUBE - FACTORY INSTALLED
		1	RTU3 CONVENIENCE OUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J-BOX
		1	RTU ECONDMIZER - FIXED ENTHALPY CONTROL
		1	RTU3 ECONDMIZER BARDOMETRIC RELIEF
		1	RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI
		1	RTU3 HAIL GUARD
		1	RTU3 DOWN RETURN
		1	REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR
		1	VAV PACKAGE W/ MANUAL/DDC CONTROL (S71 VFD INCLUDED)
1	2" METAL MESH FILTERS FOR RTU3 OUTDOOR INTAKE		
1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS)		
1	EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET		

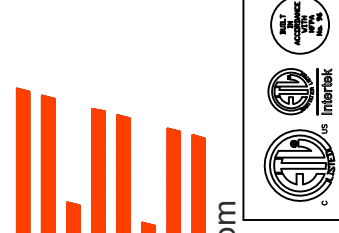
FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
6	RTU-1 KITCH EN	1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 1 FURNACE
		1	COOLING OVERRIDE
		1	SHIP LOOSE GAS STRAINER 1"
		1	SINGLE POINT ELECTRICAL CONNECTION FOR RTU. 750VA TRANSFORMER USED. IF A NON-DCV PREWIRE CONTROLS THIS UNIT, THE #28, #47, 'MA', OR 'E2' PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE
		1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED
		1	RTU BLOWER DOOR SWITCH
		1	RTU3 DOWN DISCHARGE
		1	2" MERV 13 FILTERS FOR RTU3 (QTY. 4)
		1	2" MERV 8 FILTERS FOR RTU3 (QTY. 4)
		1	OVERHEAT STAT
		1	TOTAL CFM MONITORING
		1	20 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL - R454B
		1	RTU3 CURB DUCT HANGER
		1	24VAC FIRE INPUT
		1	RTU RETURN MOUNTED SMOKE DETECTOR AND SAMPLING TUBE - FACTORY INSTALLED
		1	RTU3 CONVENIENCE OUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J-BOX
		1	RTU ECONDMIZER - FIXED ENTHALPY CONTROL
		1	RTU3 ECONDMIZER BARDOMETRIC RELIEF
		1	RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI
		1	RTU3 HAIL GUARD
		1	RTU3 DOWN RETURN
		1	REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR
		1	VAV PACKAGE W/ 0-10VDC INPUT CONTROL (S71 VFD INCLUDED)
		1	VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE
		1	2" METAL MESH FILTERS FOR RTU3 OUTDOOR INTAKE
		1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS)
		1	EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET

HMI SCHEDULE				
UNIT NUMBER	HMI #	HMI LOCATION	TEMP AVERAGING	MODBUS ADDRESS
FAN #5	HMI #1 - UNIT	IN UNIT	NOT AVERAGED	55
FAN #5	HMI #2 - SPACE		AVERAGED	56
FAN #6	HMI #1 - UNIT	IN UNIT	NOT AVERAGED	55
FAN #6	HMI #2 - SPACE		AVERAGED	56

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DESCRIPTION	DATE:



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CULVERS HIGHPOINT NC REV1
HIGH POINT, NC, 27265

DATE: 5/8/2025

DWG.#:
7327017

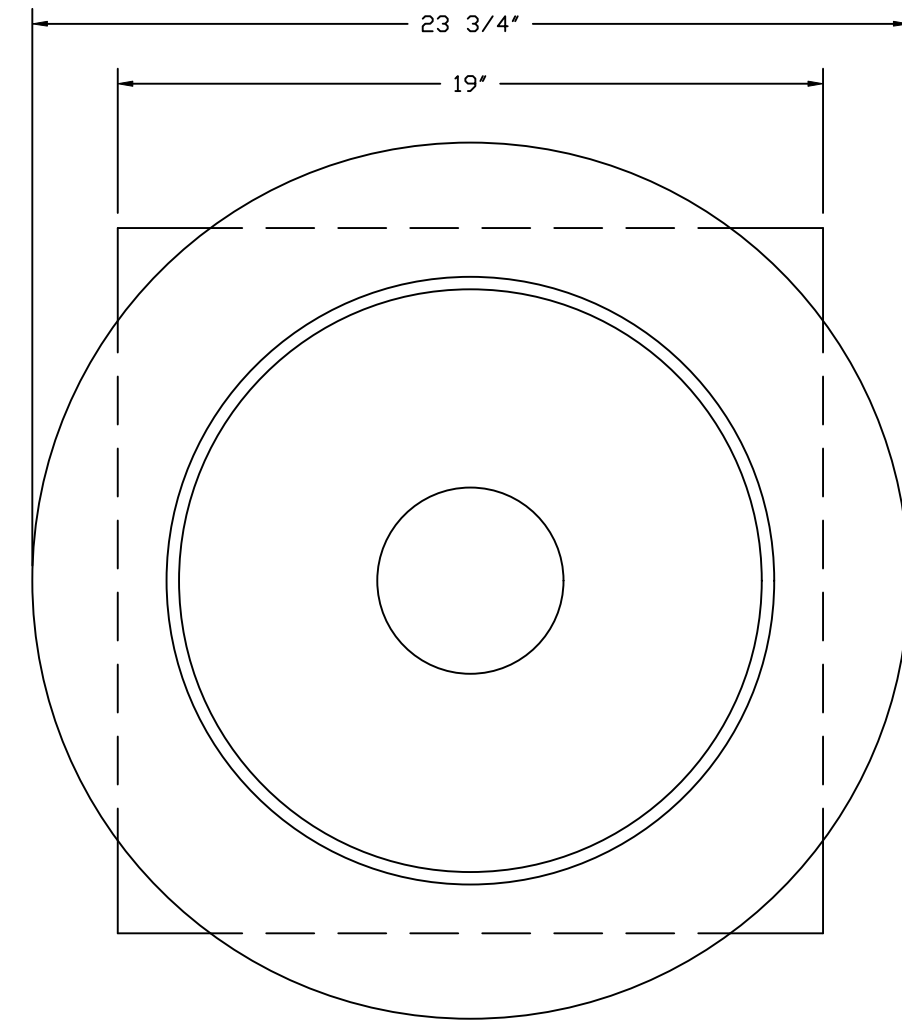
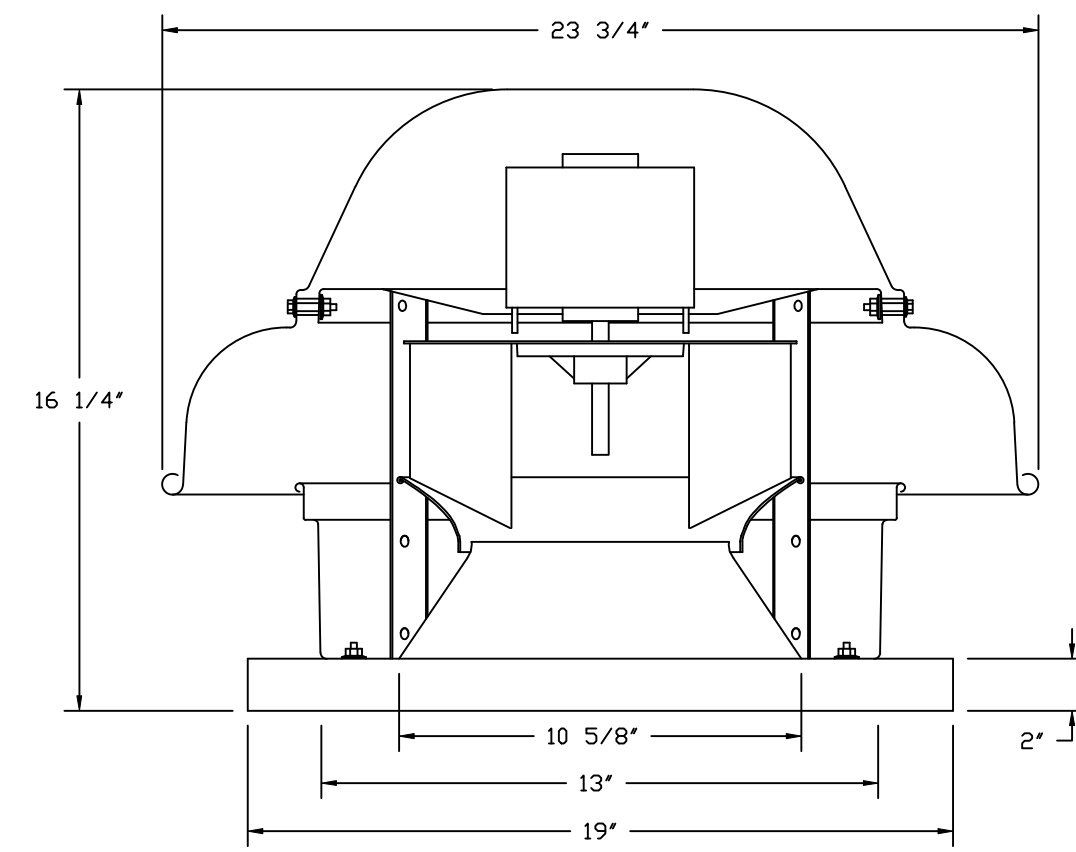
DRAWN BY: studdy jr

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

MASTER DRAWING

SHEET NO.
6

FAN #1_DR12HFA - EXHAUST FAN (PRV-1 RESTROOM)



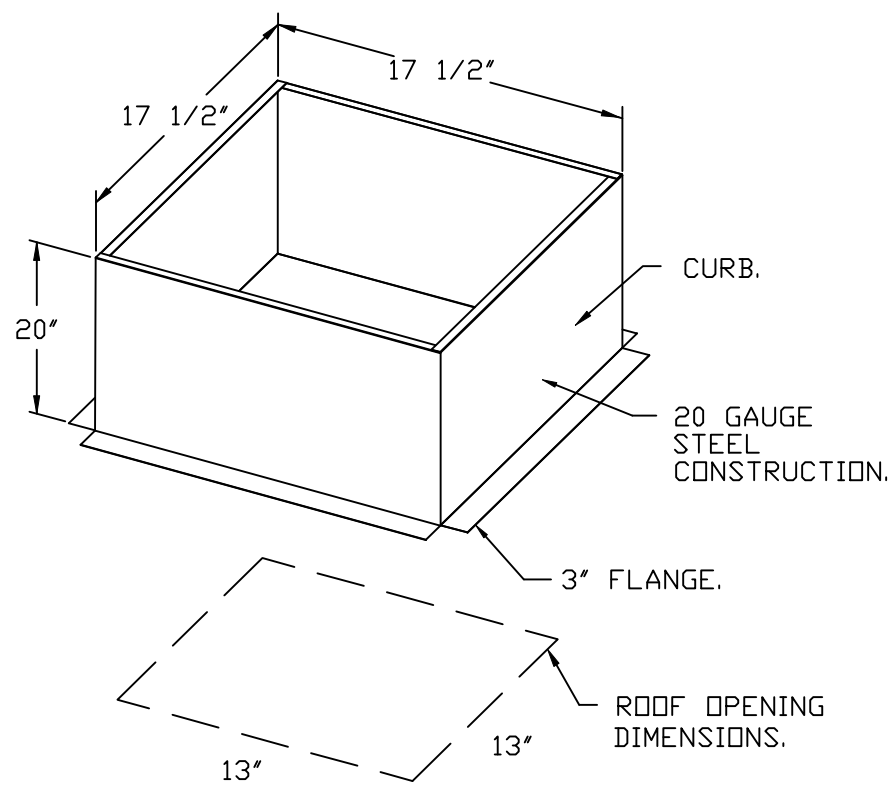
TOP VIEW

FEATURES:

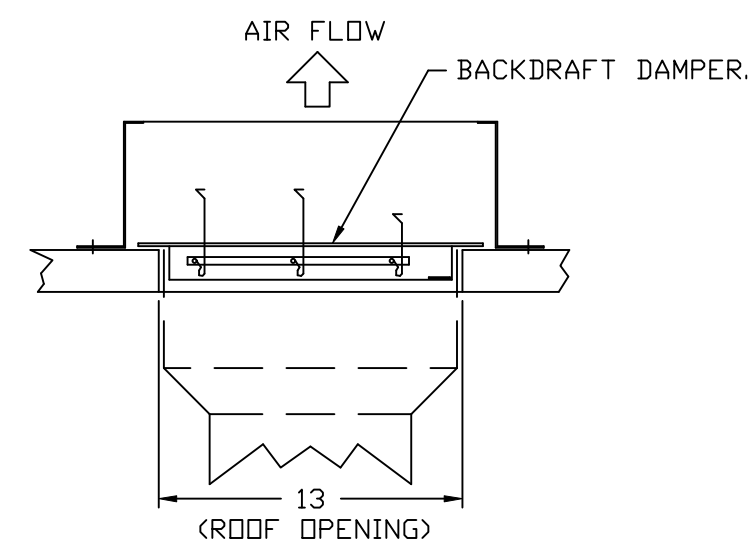
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- UL705.
- SAFETY DISCONNECT.
- STANDARD BIRD SCREEN.
- SPEED CONTROL.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).

OPTIONS

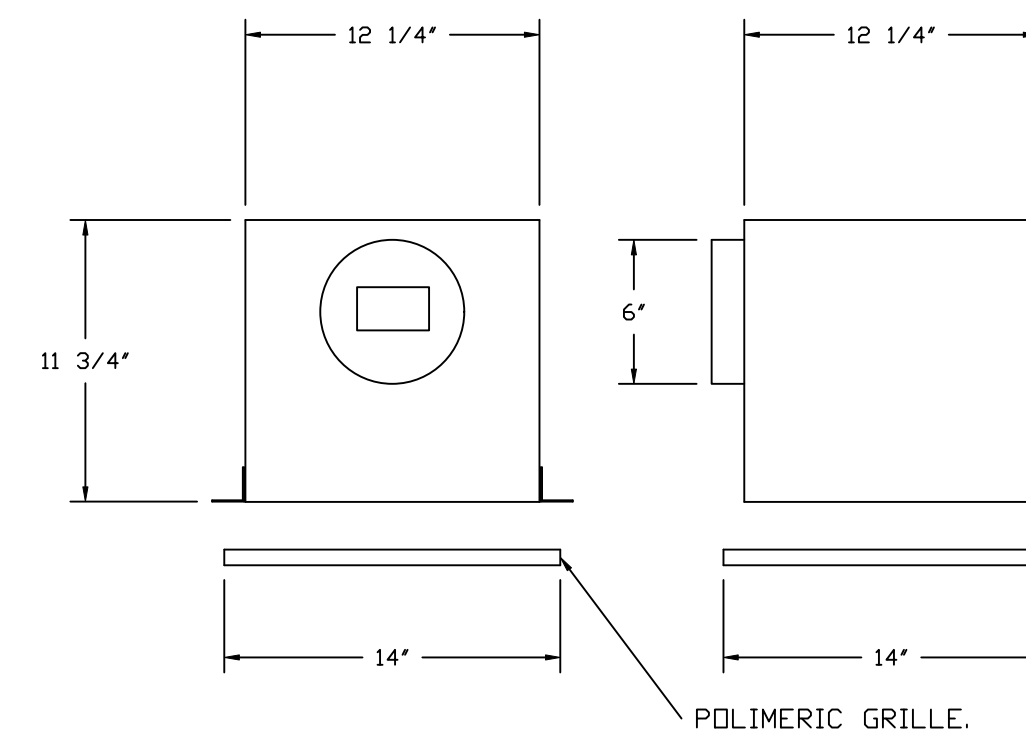
- 1 12-BDD DAMPER.
- ECM WIRING PACKAGE - EXHAUST - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -MSC- (TELCD), CCW ROTATION.
- FULL CRATING FOR EXHAUST FANS.
- 2 YEAR PARTS WARRANTY.



BACKDRAFT DAMPER INSTALLATION



FAN #4_CFA 100CA - EXHAUST FAN (EF-1)



FEATURES:

- 1/2" ACOUSTIC HOUSING INSULATION.
- 20 GA. GALVANIZED STEEL HOUSING.
- PLUG TYPE DISCONNECT.
- BUILD IN AUTOMATIC BACKDRAFT DAMPER.
- AMCA SOUND & AIR CERTIFIED.
- UL LISTED.
- CAN BE INSTALLED IN CEILING OR WALL.
- 8 POSITION MOUNTING BRACKETS.

OPTIONS

- FAN CONTROL - 3 AMP WHITE SPEED CONTROL FOR CFA CEILING FAN.
- MGI - METAL GRILLE KIT.
- 2 YEAR PARTS WARRANTY.

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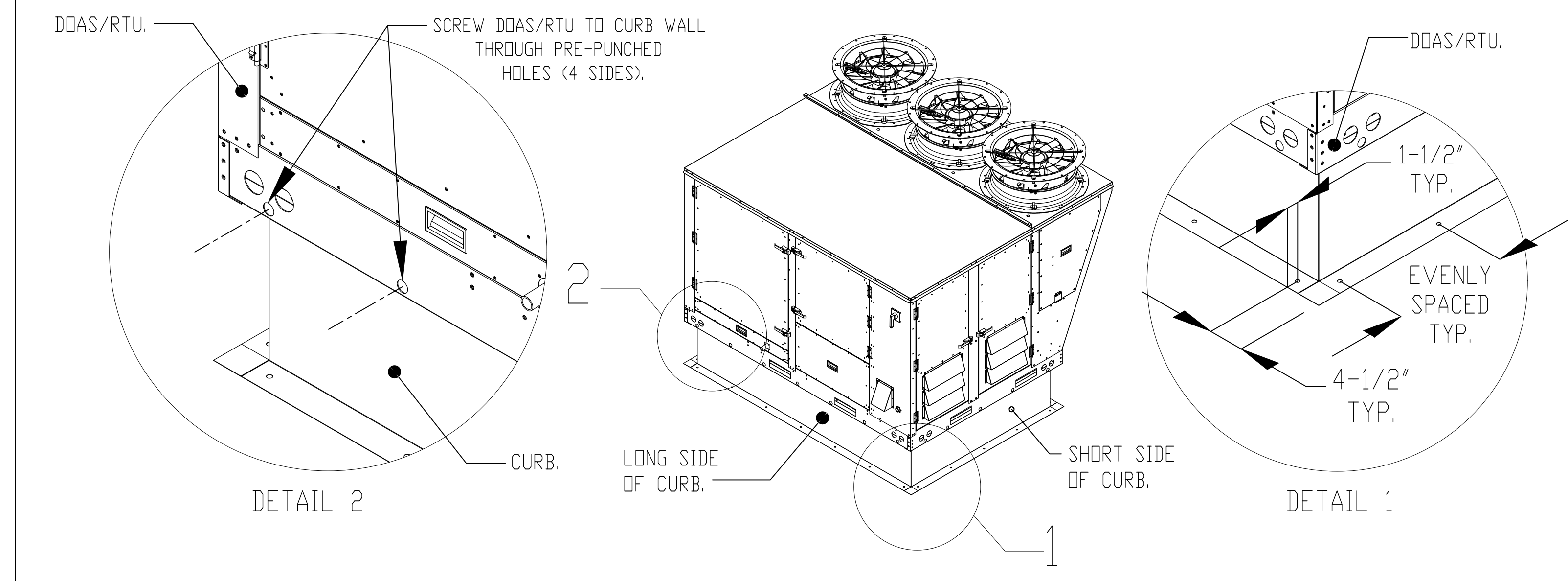
CULVERS HIGHPOINT NC REV1
HIGH POINT, NC, 27265

DATE: 5/8/2025
 DWG.#: 7327017
 DRAWN BY: sluddy jr
 SCALE: 3/4" = 1'-0"
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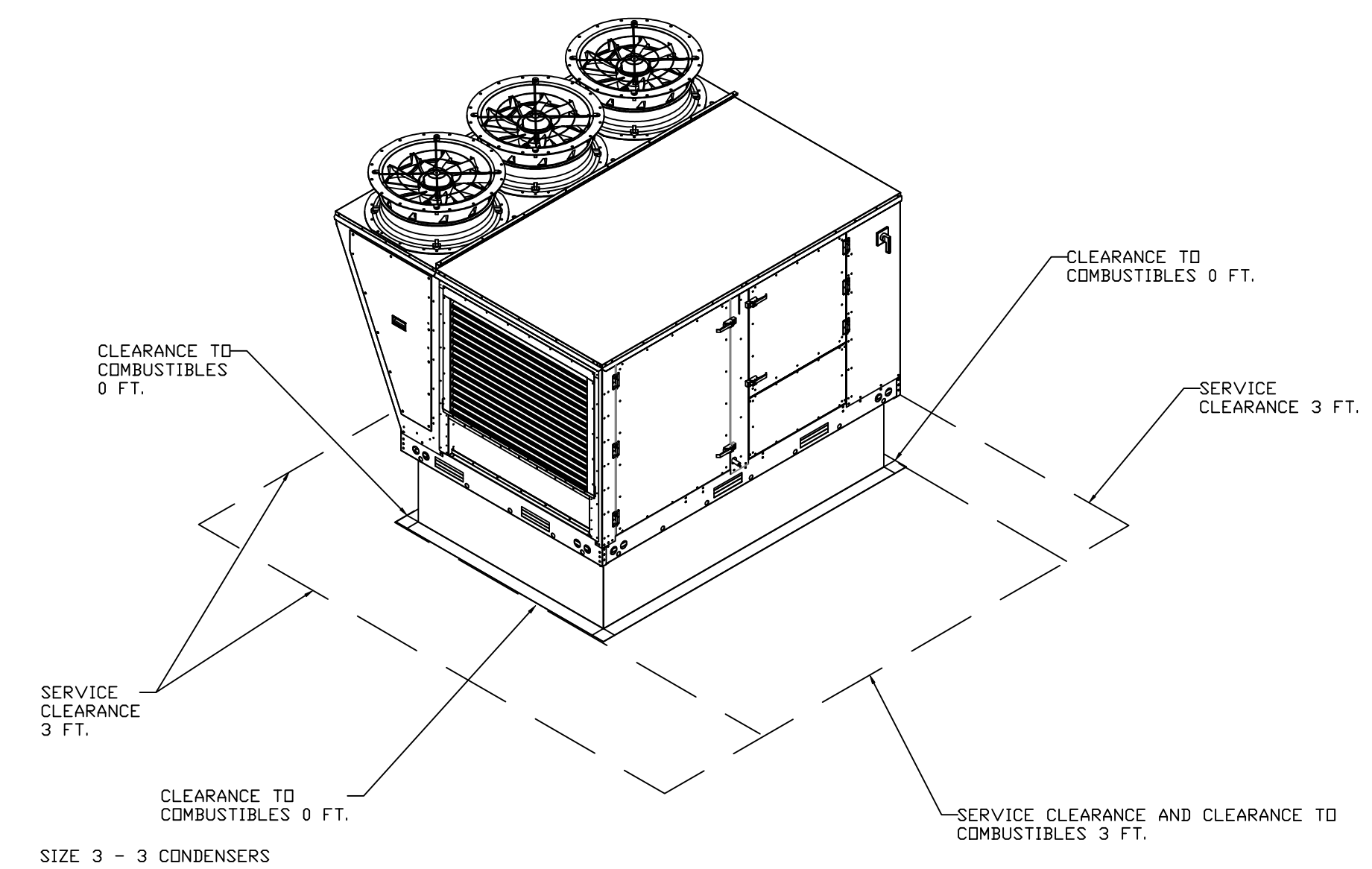
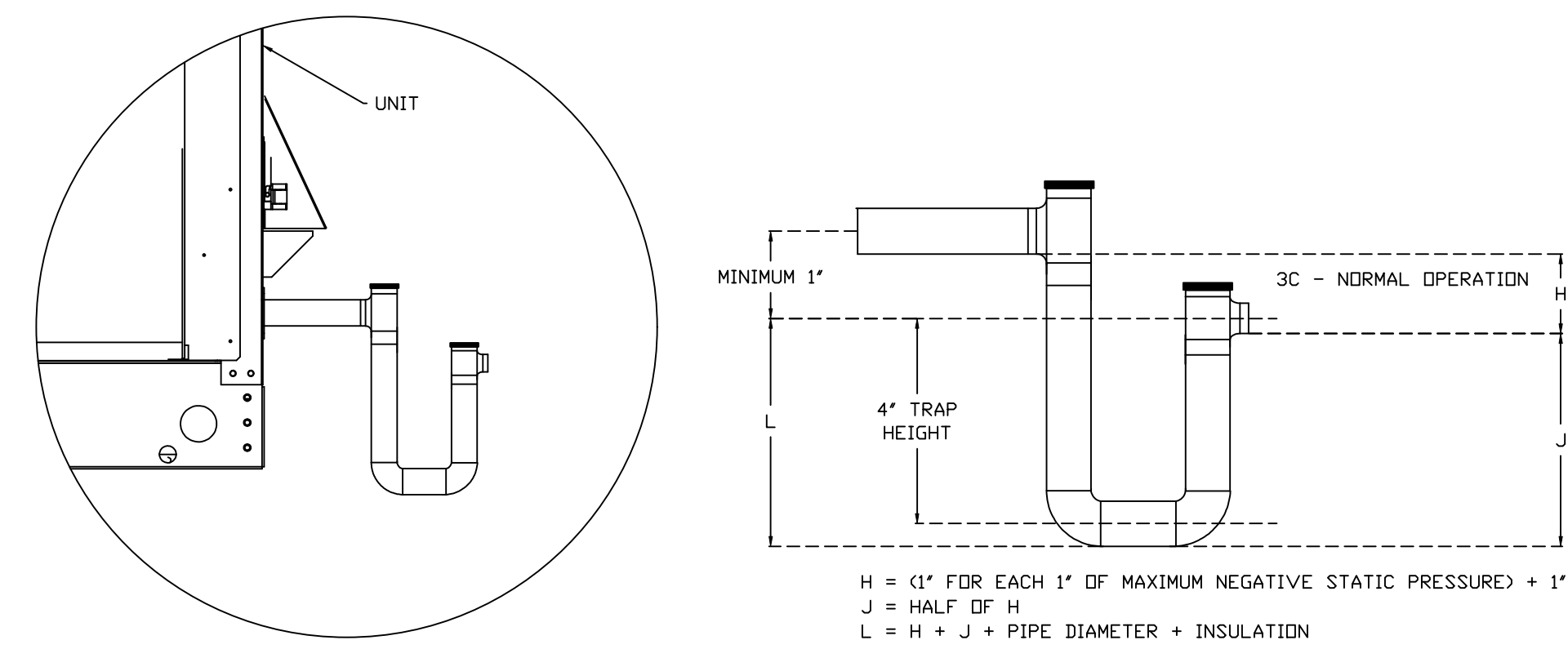
SHEET NO.
7

TYPICAL DOAS/RTU ROOF MOUNTING INSTALLATION INSTRUCTIONS

1. SECURE THE CURB TO THE ROOF FRAMING MEMBERS BY DRILLING 1/4" PILOT HOLES IN THE CURB FLANGES AT LOCATIONS SHOWN IN THE DIAGRAM BELOW. USING 3/8" X 2" ZINC PLATED STEEL LAG BOLTS, AND ZINC PLATED WASHERS, SCREW THROUGH THE CURB FLANGES AND INTO THE ROOF FRAMING MEMBERS. A MINIMUM OF (5) LAG BOLTS ON EACH SHORT SIDE, AND (7) LAG BOLTS ON EACH LONG SIDE IS REQUIRED.
2. SECURE THE UNIT BASE TO THE SIDE WALLS OF THE CURB USING (24) 1/4"-14 X 2" SELF-DRILLING, STEEL ZINC PLATED SCREWS. PRE-PUNCHED HOLES HAVE BEEN PROVIDED FOR EACH SCREW LOCATION.



RTU CONDENSATE DRAIN TRAP DETAIL



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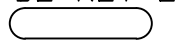
CULVERS HIGHPOINT NC REV1
 HIGH POINT, NC, 27265

DATE: 5/8/2025
 DWG.#: 7327017
 DRAWN BY: sluddy jr
 SCALE: 3/4" = 1'-0"
 MASTER DRAWING

SHEET NO.
8

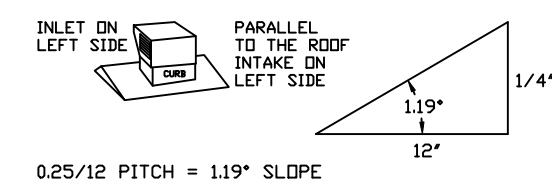
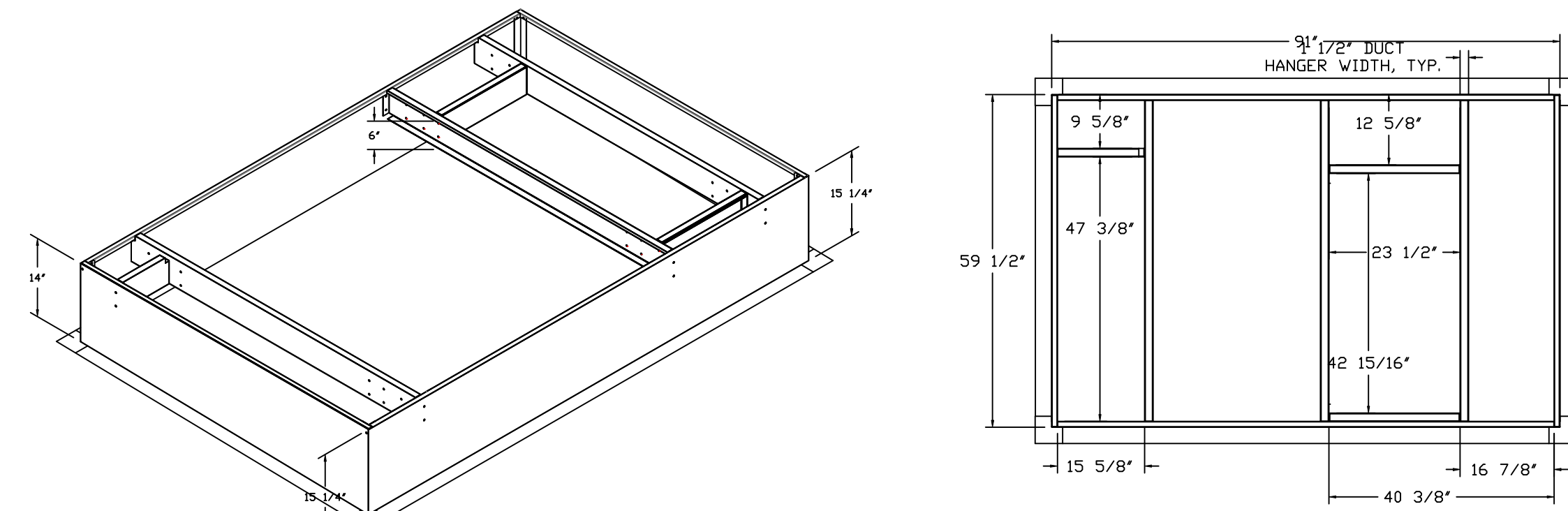
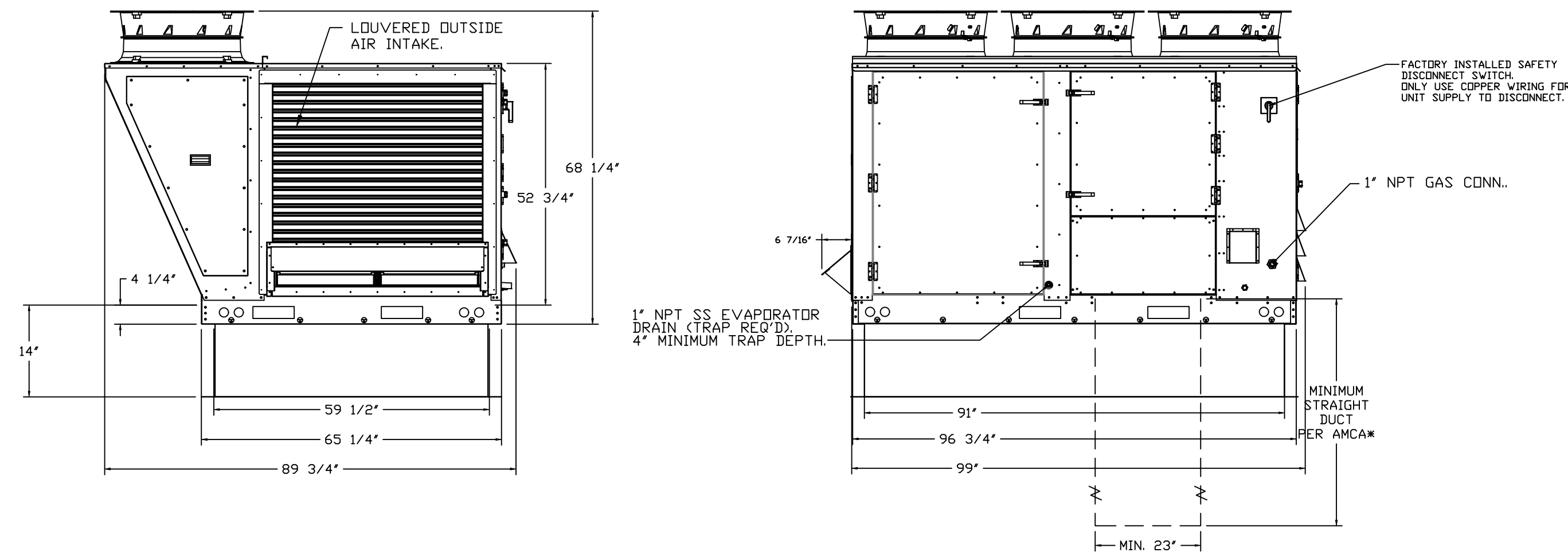
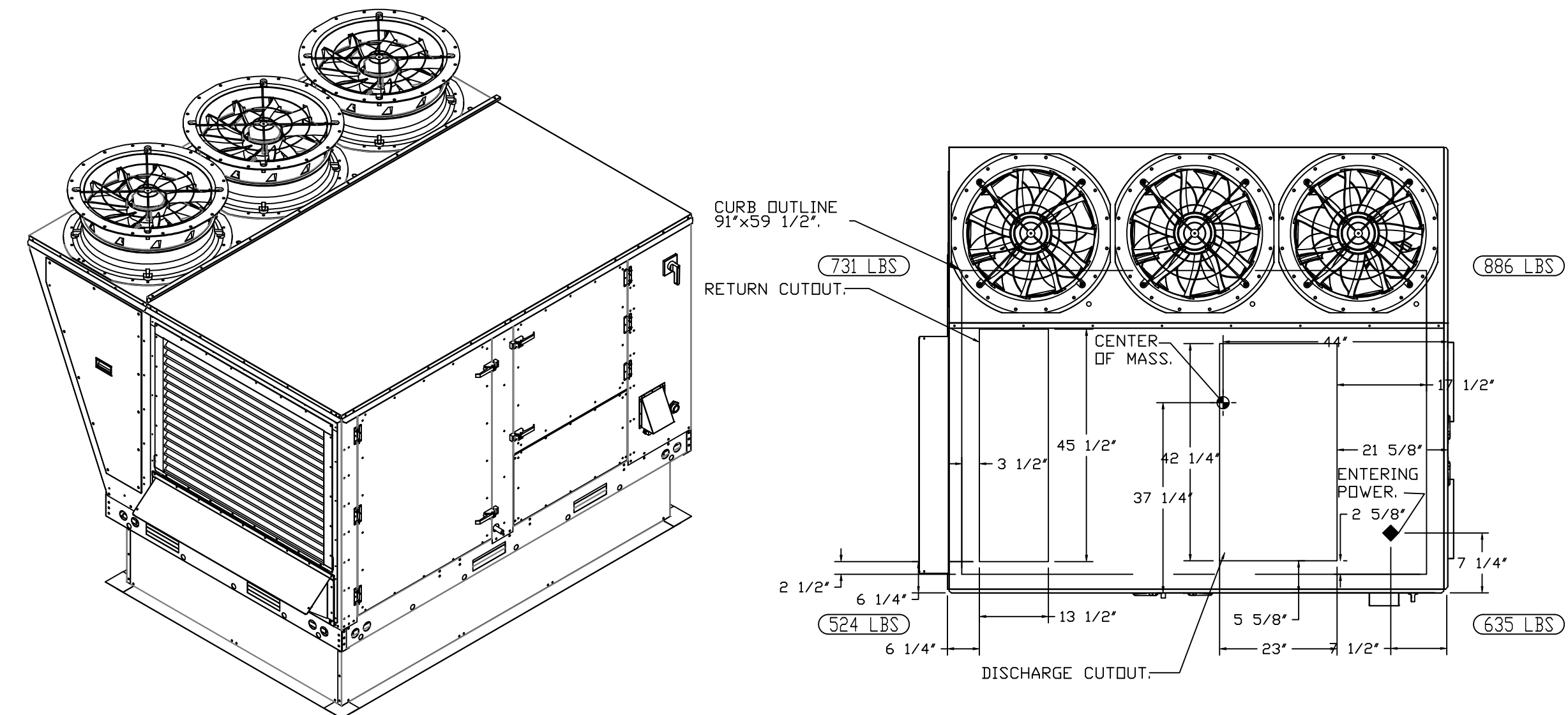
FAN #5 CAS-HVAC3-1.300-24MF-20T - HEATER (RTU-1 DINING)

NOTES:

- DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
-  DENOTES CORNER WEIGHT.
- ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.
- CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY.
- EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET.

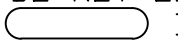
*NOTE: INTEGRAL CO2 MONITORING AND CONTROL CAPABILITIES FOR ALL SPACE MOUNTED THERMOSTATS.

*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT.
SUGGESTED STRAIGHT DUCT SIZE IS 23" x 39".



FAN #6 CAS-HVAC3-1.300-24MF-20T - HEATER (RTU-1 KITCHEN)

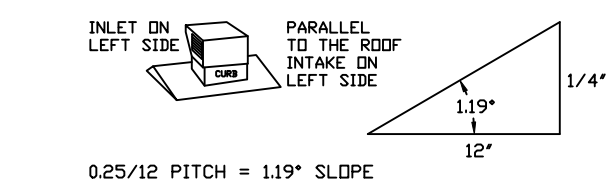
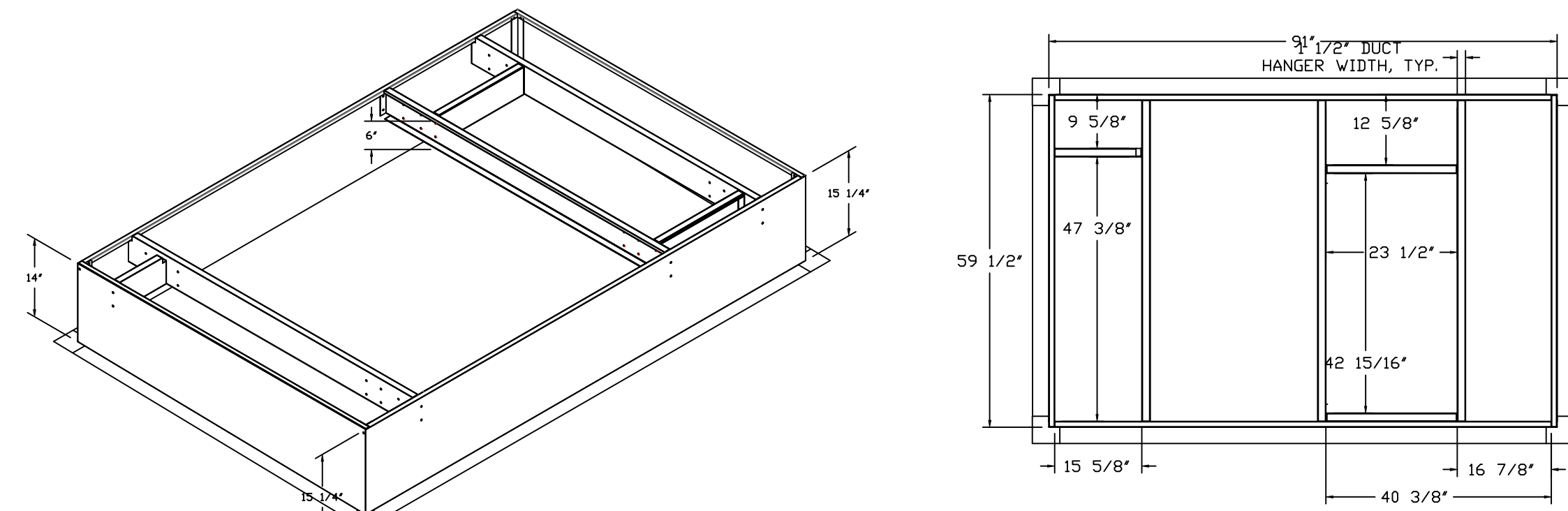
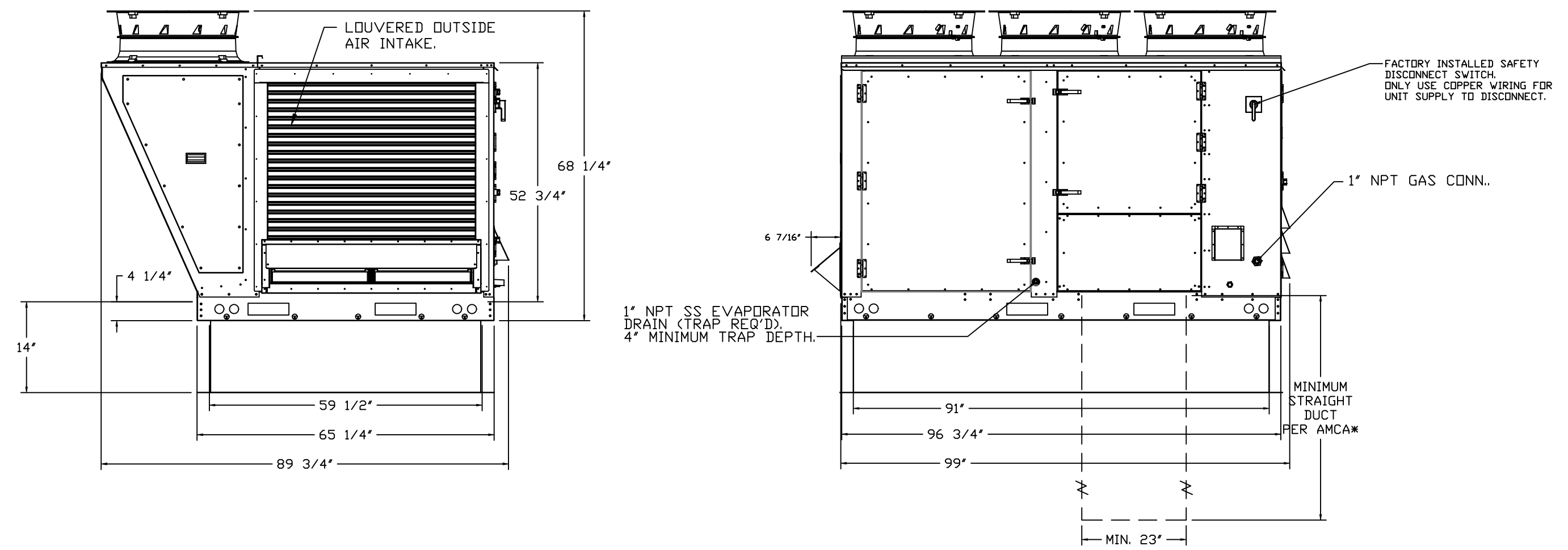
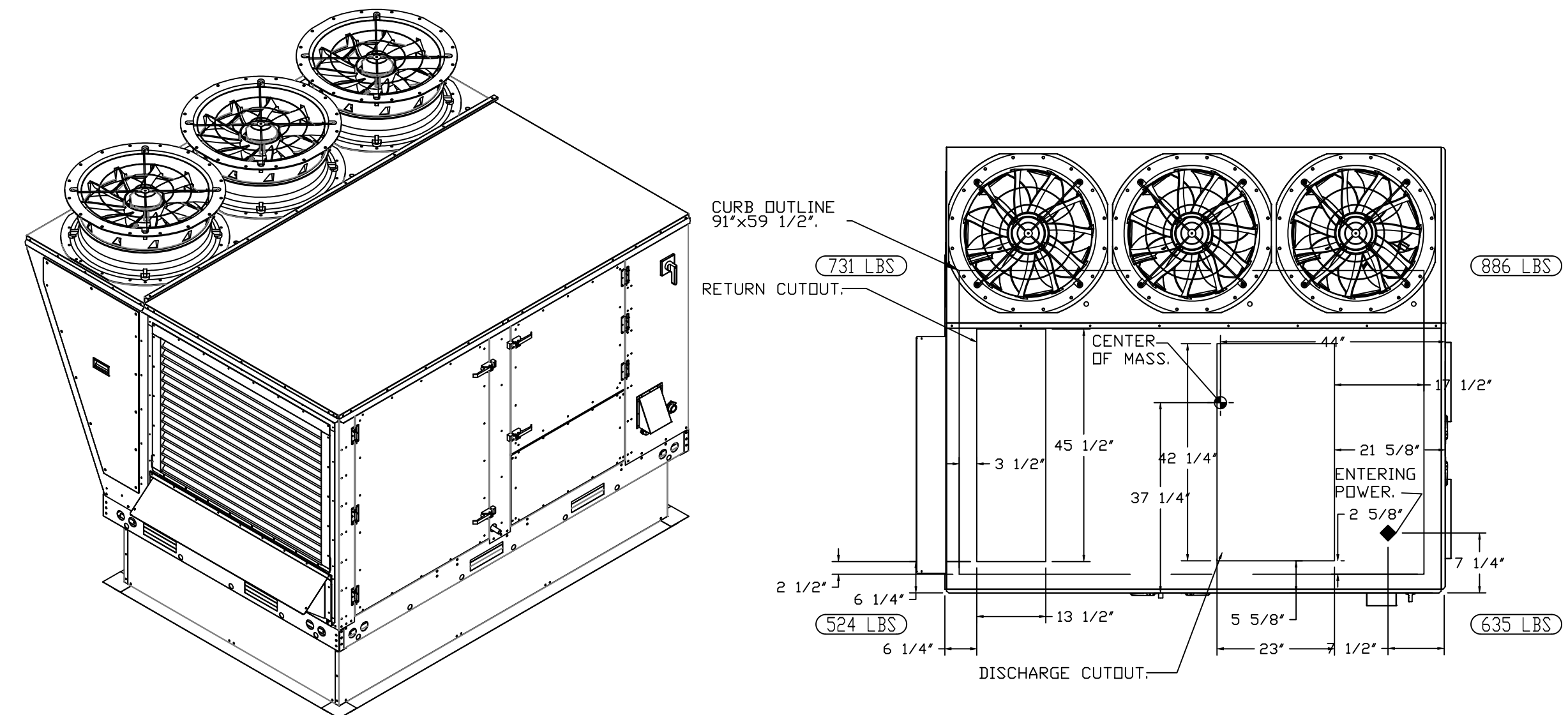
NOTES:

- DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
-  DENOTES CORNER WEIGHT.
- ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.
- CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY.
- EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET.

*NOTE: INTEGRAL CO2 MONITORING AND CONTROL CAPABILITIES FOR ALL SPACE MOUNTED THERMOSTATS.

***NOTE: THIS UNIT IS INTENDED TO SERVE IN PLACE OF THE KITCHEN HVAC ROOF TOP UNIT (RTU) IN ADDITION TO PROVIDING APPROPRIATE MAKE-UP AIR FOR THE KITCHEN HOOD(S). RTU AND ASSOCIATED DUCTWORK SHALL BE REMOVED FROM SCOPE UNLESS REQUIRED FOR INTERNAL LOAD ESTIMATES. FINAL DESIGN SHALL BE REVIEWED AND APPROVED BY THE ENGINEER OF RECORD.**

*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT.
SUGGESTED STRAIGHT DUCT SIZE IS 23" x 39".



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HIGH POINT, NC, 27265

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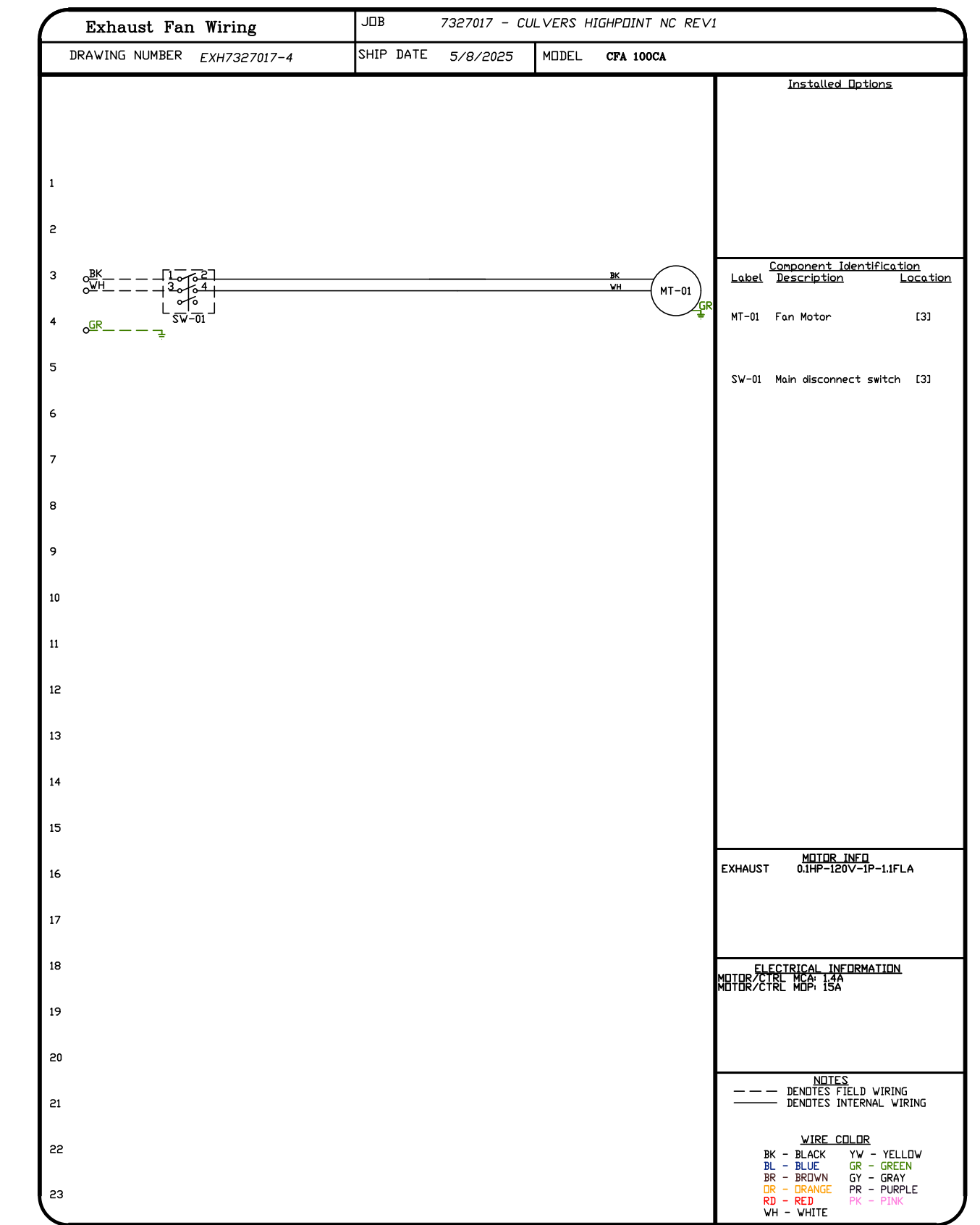
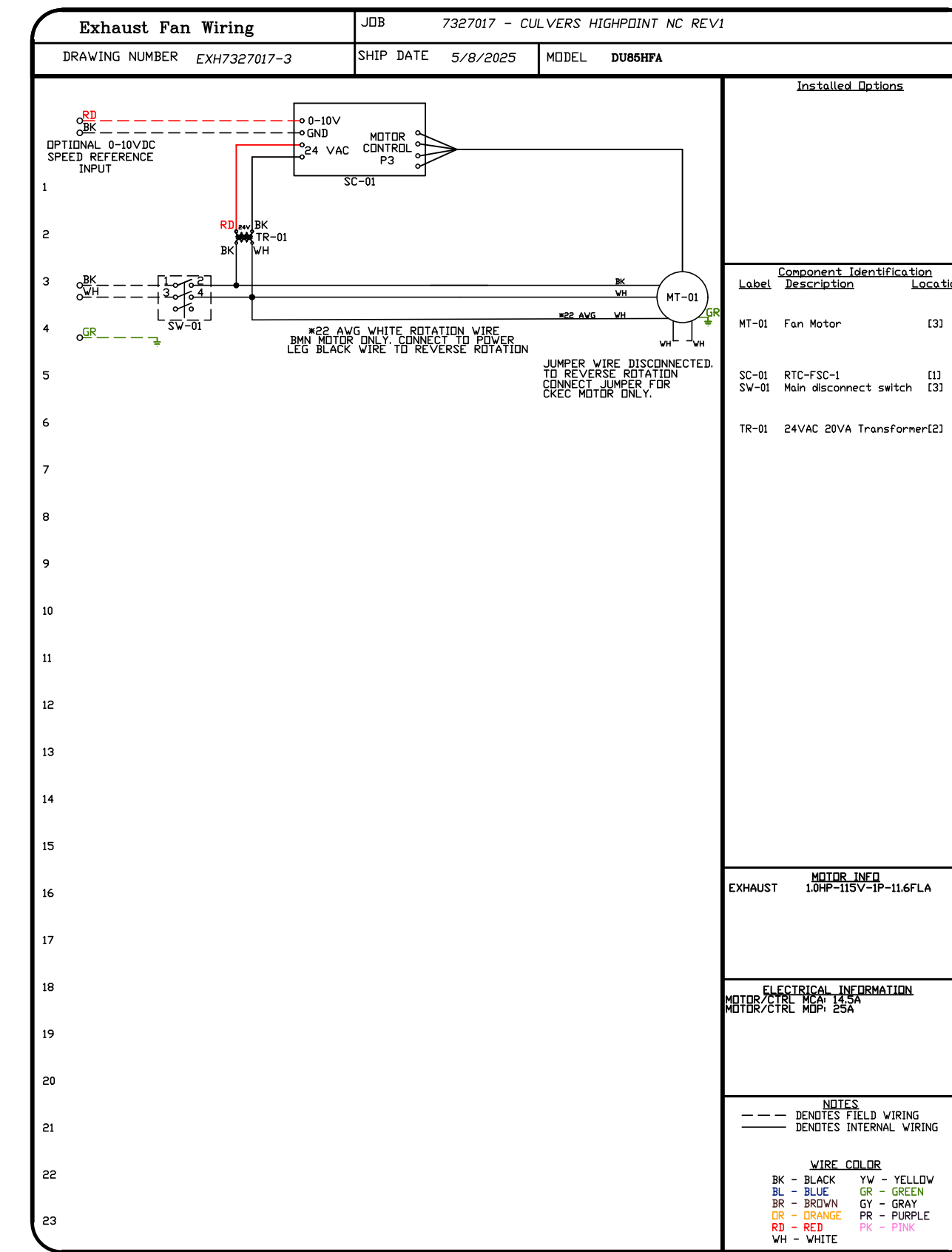
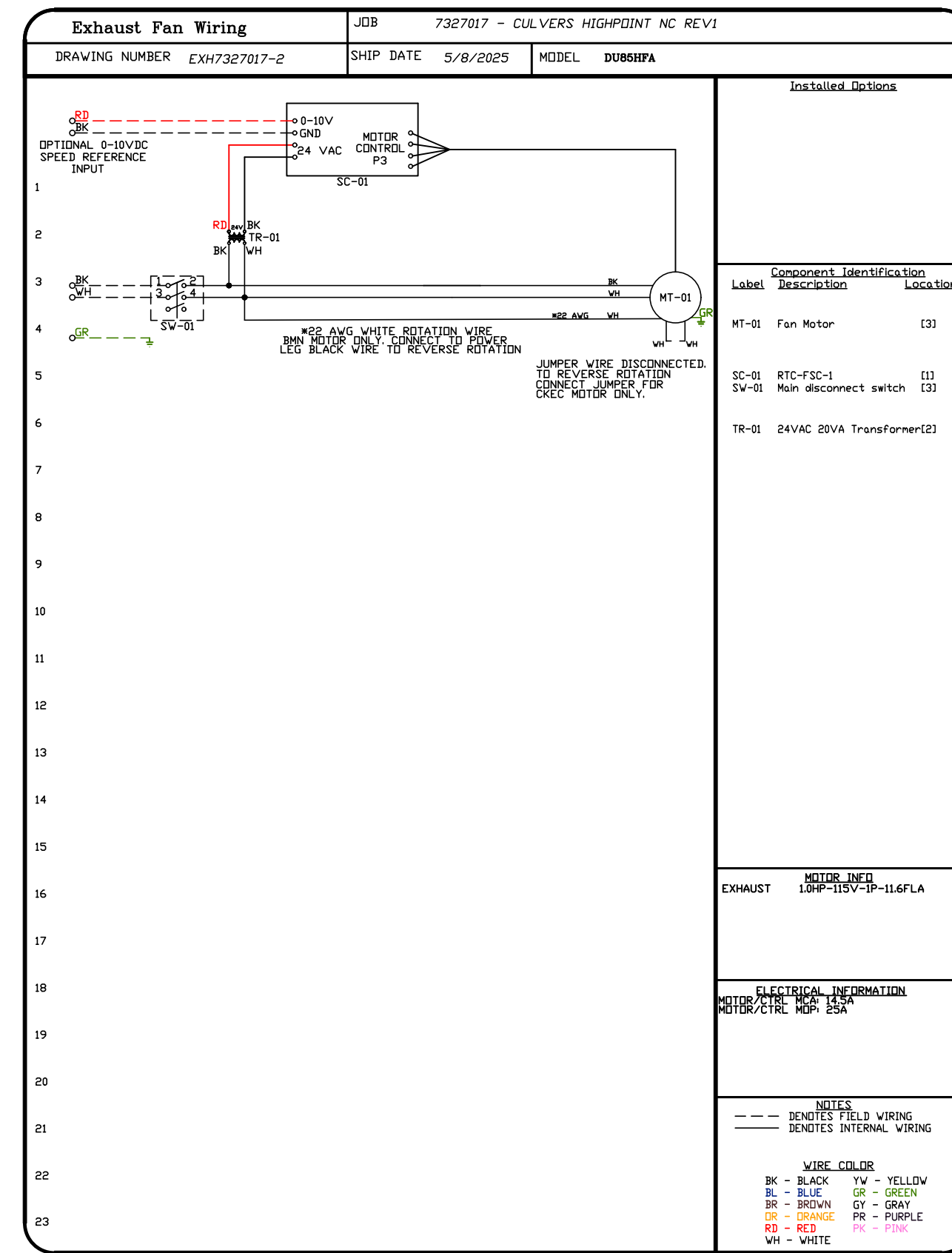
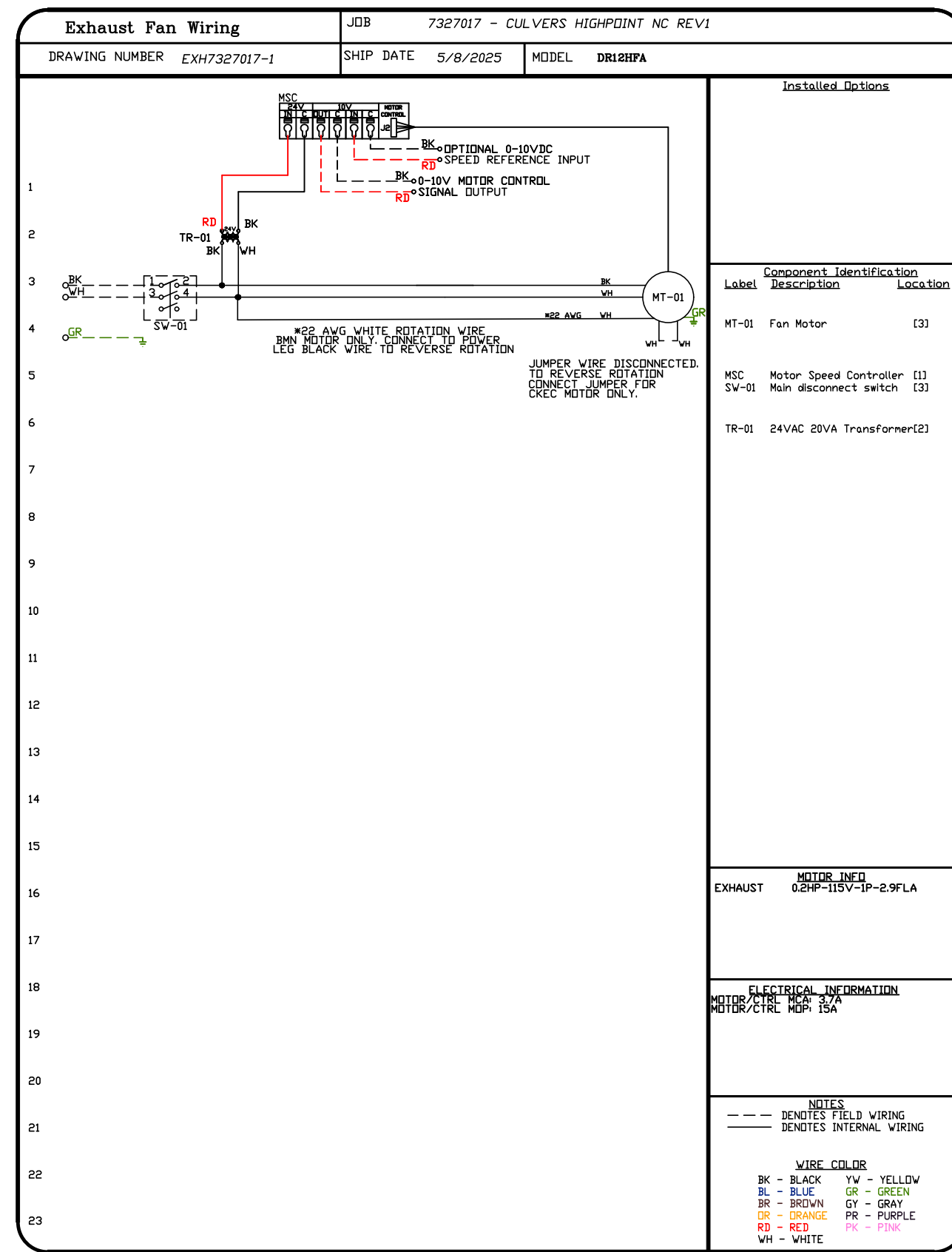
DWG.#:
7327017

DRAWN BY: sluddy jr

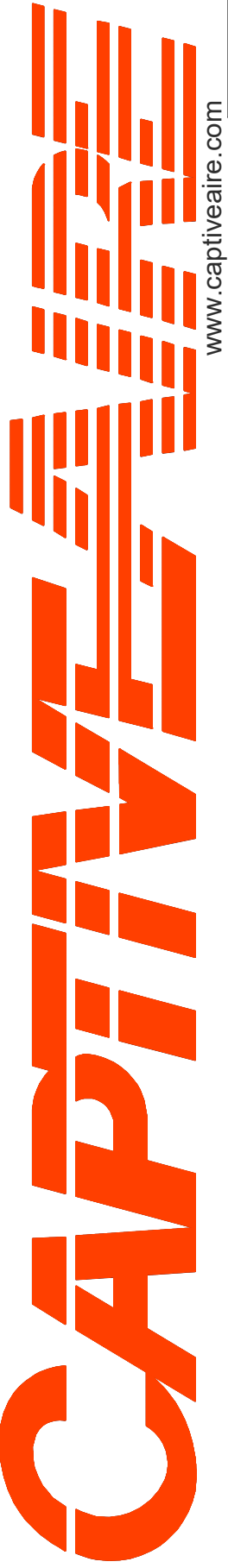
SCALE:
1/2" = 1'-0"

MASTER DRAWING

SHEET NO.
9



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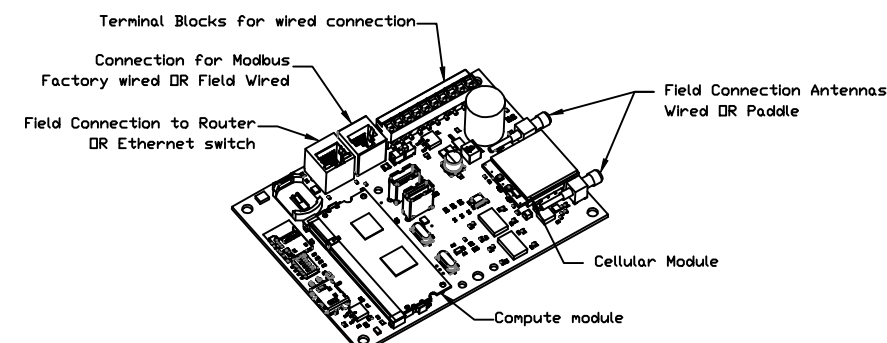
CULVERS HIGHPOINT NC REV1
HIGH POINT, NC, 27265

DATE: 5/8/2025
DWG.#: 7327017
DRAWN BY: sluddy jr
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
10

ELECTRICAL PACKAGE - JOB#7327017

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	Ø	HP	VOLT	FLA
1		SC-E012011MA	WALL UTILITY CABINET LEFT	SHIP LODSE W/ PREWIRE	1 LIGHT 1 FAN	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY	PRV-2 Griddle	EXHAUST	1	1.000	115	11.6
							PRV-3 Fryer	EXHAUST	1	1.000	115	11.6
							RTU-1 Kitchen	SUPPLY	3	10.000	208	27.0

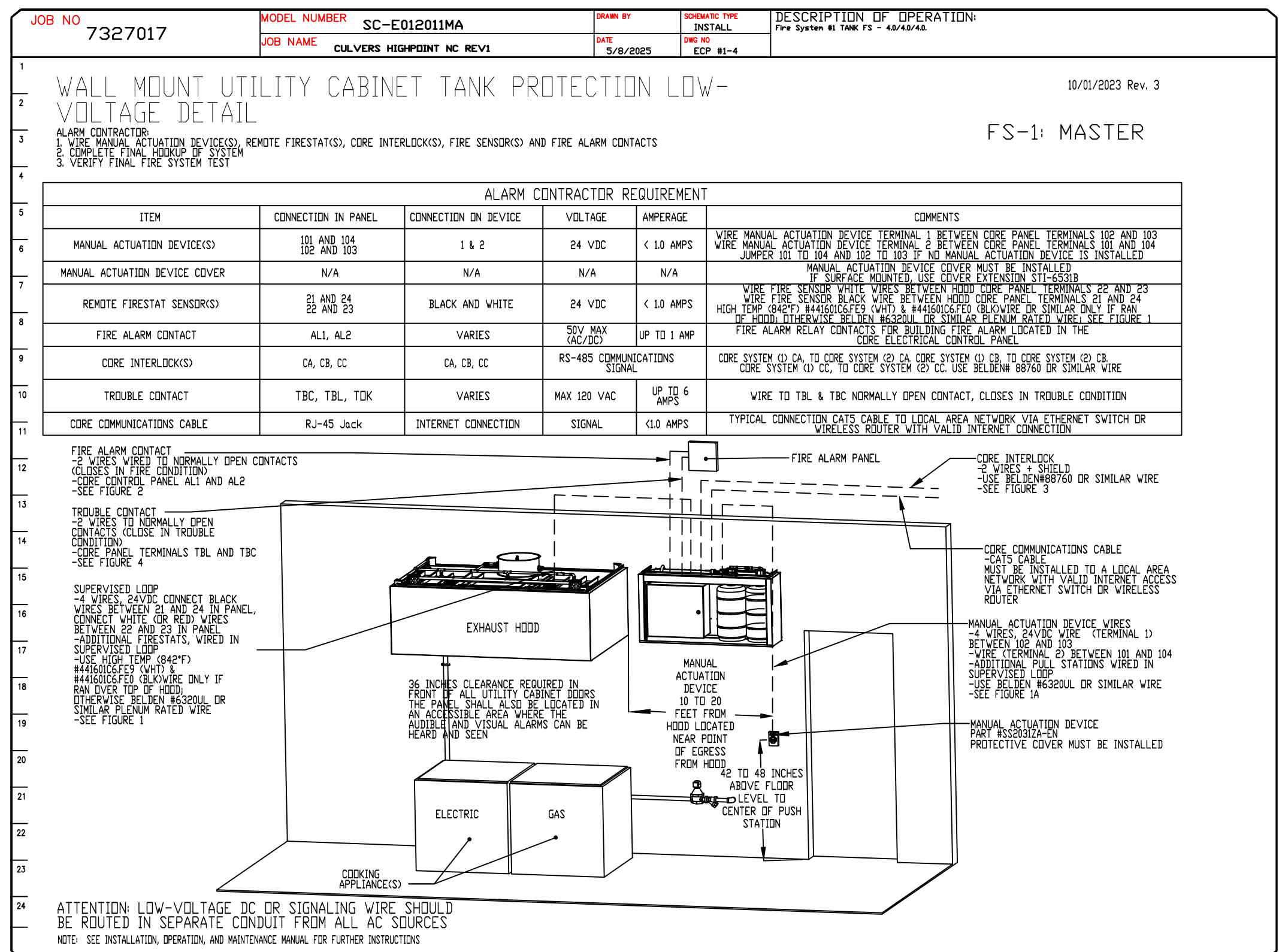
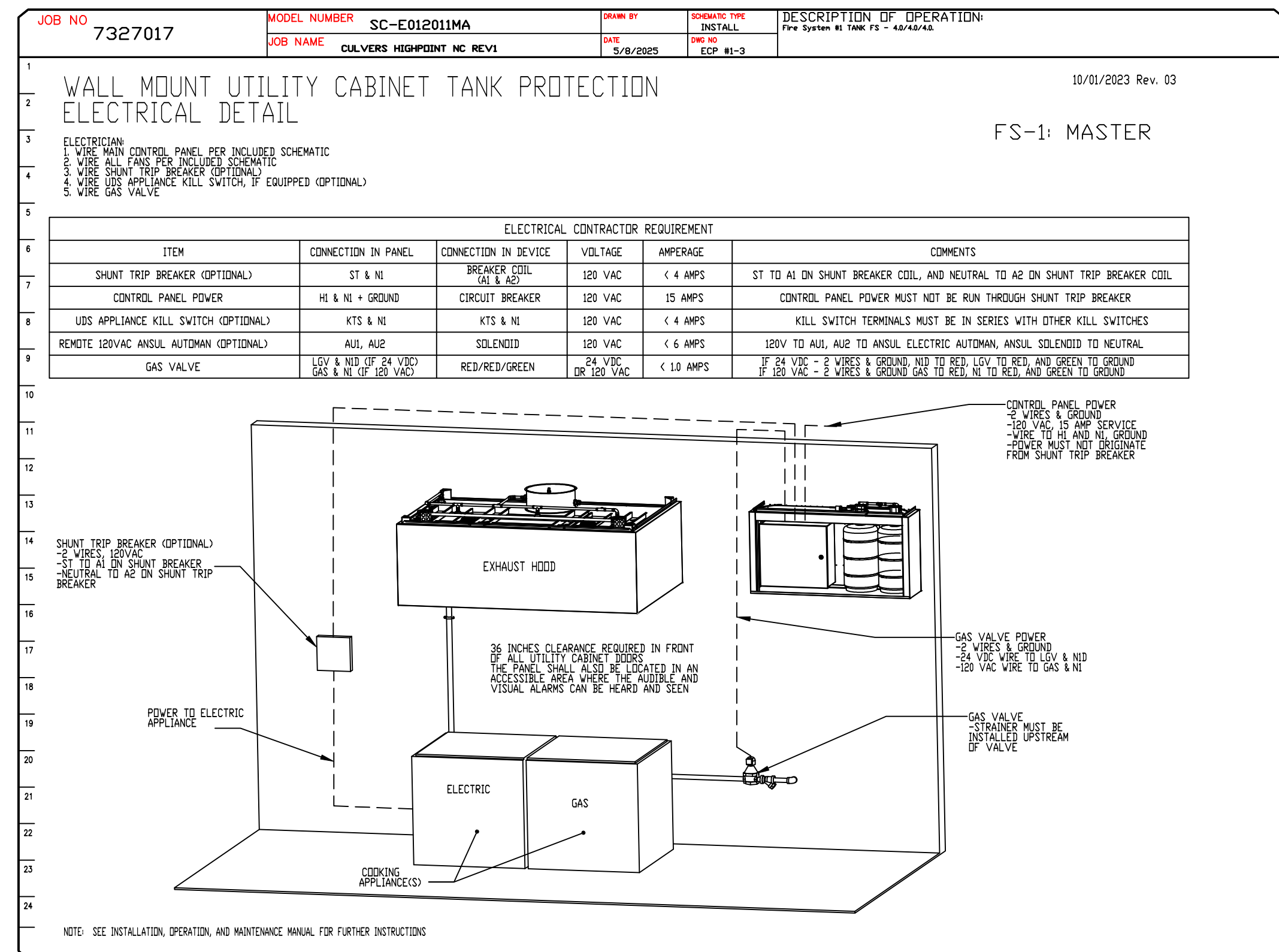
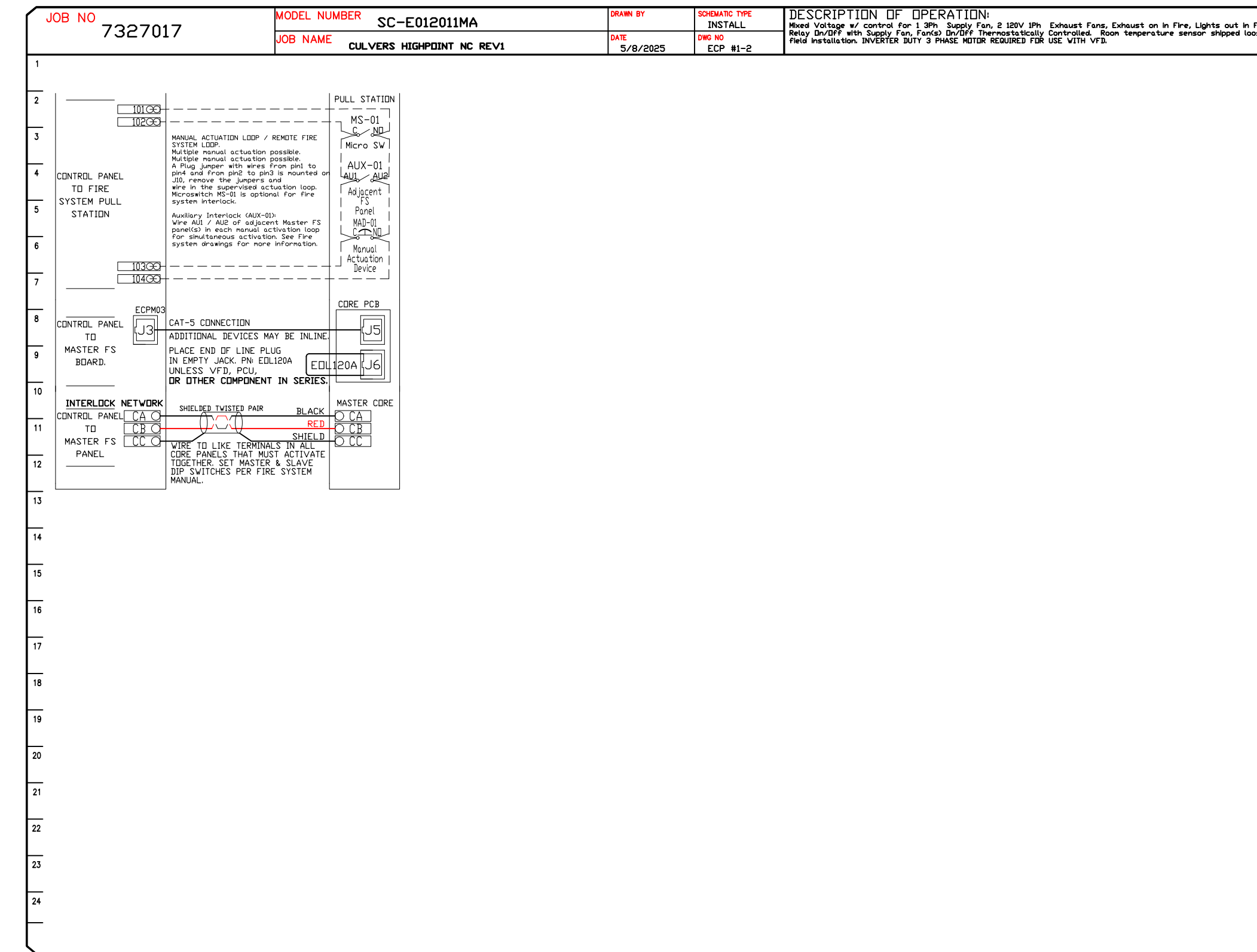
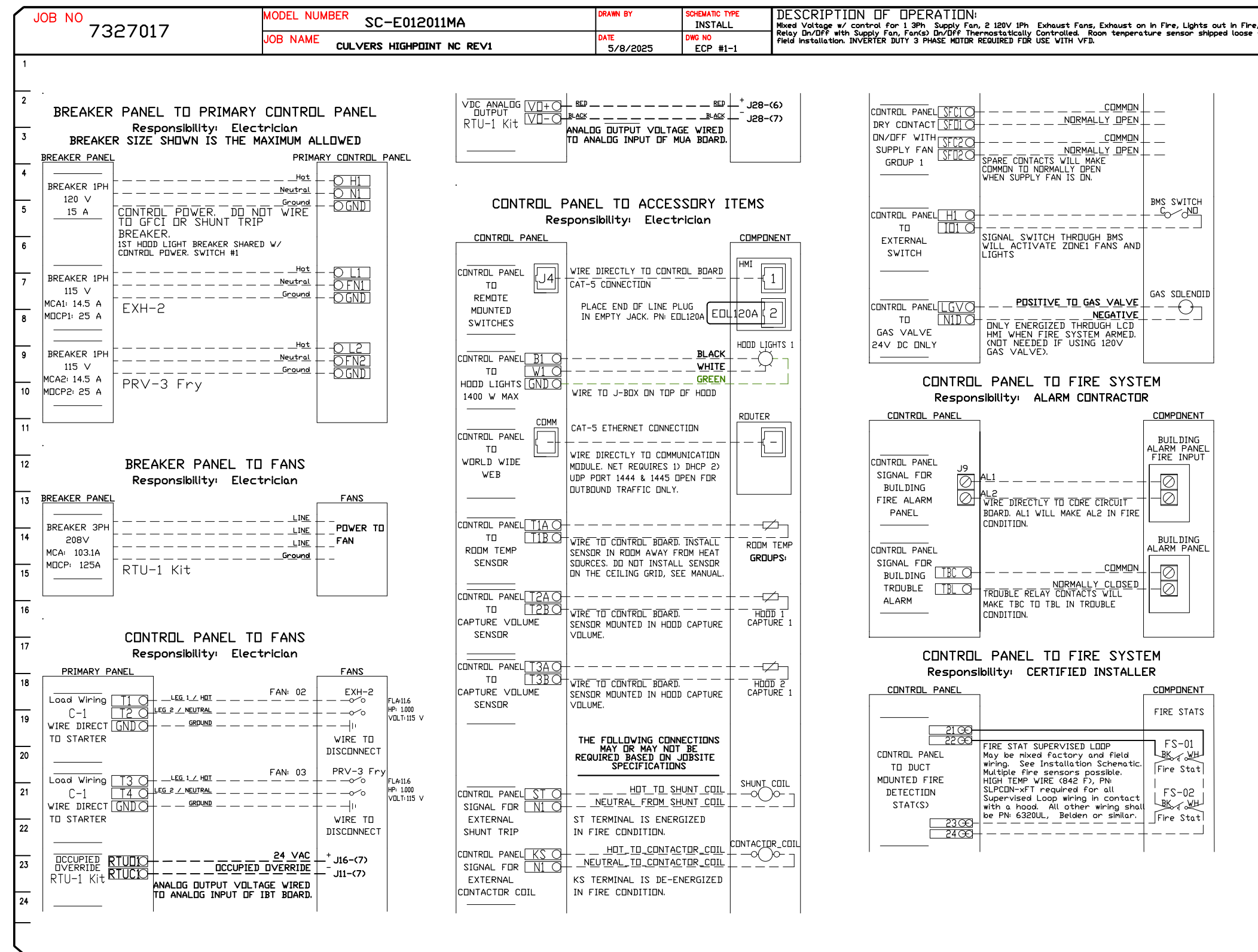


CASlink Monitor and Control

- Hood control panel to support communications to cloud-based Building Management Systems
- Hood Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list
- Hood Control Panel to allow cloud-based Building Management System to control parameters outlined as CONTROL in the points list
- Hood Control Panel to allow cloud-based Building Management System to implement SYSTEM ECONOMIZER control strategies for fully integrated Building Management.

MONITORING AND CONTROL POINTS LIST

DCV Packages	Function	SC Packages	Function
Room Temperature	MONITOR	Room Temperature(s)	MONITOR
Duct Temperature(s)	MONITOR	Duct Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR	MUA Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR	Kitchen RTU Discharge Temperature	MONITOR
Fan Speed	MONITOR	Compressor Pressures	MONITOR
Fan Amperage	MONITOR	Fan Faults	MONITOR
Fan Power	MONITOR	Fan Status	MONITOR
VFD Faults	MONITOR	PCU Filter Clog Percentages	MONITOR
Controller Faults	MONITOR	Flow Condition	MONITOR
Fan Faults	MONITOR	CORE Fire System	MONITOR
Fan Status	MONITOR	Building Pressures	MONITOR
PCU Filter Clog Percentages	MONITOR	Fans Buttons(s)	MONITOR & CONTROL
Fire Condition	MONITOR	Lights Buttons(s)	MONITOR & CONTROL
CORE Fire System	MONITOR	Wash Button	MONITOR & CONTROL
Building Pressures	MONITOR		
Prep Time Button	MONITOR & CONTROL		
Fans Button	MONITOR & CONTROL		
Lights Button	MONITOR & CONTROL		
Wash Button	MONITOR & CONTROL		



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DRAWN BY: studdy jr
SCALE: 3/4" = 1'-0"
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SHEET NO. 12

DUCTWORK #1 PARTS - JOB#7327017 DOUBLE WALL GREASE DUCT

TAG	PART #	CFM	GPM	ZONE	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
P1	DW1247DWLT-2R-S						54.71		1	DOUBLE WALL DUCT - 12" INNER DUCT, 47" LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
P2	DW1247DWLT-2R-S						54.71		1	DOUBLE WALL DUCT - 12" INNER DUCT, 47" LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
P3	DW1235DWLT-2R-S						40.86		1	DOUBLE WALL DUCT - 12" INNER DUCT, 35" LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
P4 ASSEMBLED W/P5	DW1247DWAJDTP-2R-S						82.74		1	DOUBLE WALL ADJUSTABLE DUCT TRANSITION PLATE - 12" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11' / MAX LENGTH = 48.5' / ADJUSTMENT = 30.5' / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL *V* CLAMPS.
P5 ASSEMBLED W/P4 D=B	DW2312TPDBEX						8.00		1	DUCT TO CURB TRANSITION 3/4" DOWN TURN, 23" CURB TO 12" DUCT, 16 GA ALUMINIZED. USED ON NCA14FA & NCA14HPFA. TRANSITION PLATE OD IS 23.5" DESIGNED FOR USE WITH EXHAUST FAN.
P6	DW1247DWLT-2R-S						54.71		1	DOUBLE WALL DUCT - 12" INNER DUCT, 47" LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
P7	DW1247DWLT-2R-S						54.71		1	DOUBLE WALL DUCT - 12" INNER DUCT, 47" LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
P8	DW1235DWLT-2R-S						40.86		1	DOUBLE WALL DUCT - 12" INNER DUCT, 35" LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
P9 ASSEMBLED W/P10	DW1247DWAJDTP-2R-S						82.74		1	DOUBLE WALL ADJUSTABLE DUCT TRANSITION PLATE - 12" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11' / MAX LENGTH = 48.5' / ADJUSTMENT = 30.5' / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL *V* CLAMPS.
P10 ASSEMBLED W/P9 D=B	DW2312TPDBEX						8.00		1	DUCT TO CURB TRANSITION 3/4" DOWN TURN, 23" CURB TO 12" DUCT, 16 GA ALUMINIZED. USED ON NCA14FA & NCA14HPFA. TRANSITION PLATE OD IS 23.5" DESIGNED FOR USE WITH EXHAUST FAN.
	3M-2000PLUS						0.80		2	DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.
	DW12DWCLASY-2R-S						6.44		6	DUCT - 12" DUCT - 16" DOUBLE *V* CLAMP - 2R INSULATION & SINGLE *V* CLAMP INCLUDED - REDUCED CLEARANCE.
TOTAL WEIGHT							522.28			

DOUBLE WALL FACTORY BUILT DUCTWORK

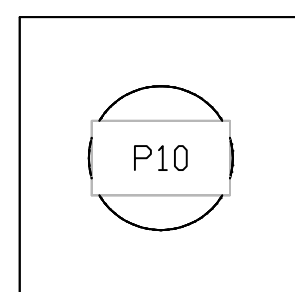
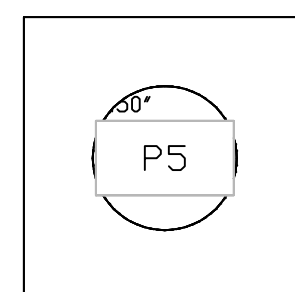
- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL.
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

HORIZONTAL	
DUCT DIAMETER	SUPPORT SPACING (FT)
5'	7'
6'	7'
7'	7'
8'	7'
10'	7'
12'	7'
14'	7'
16'	7'
18'	5'
20'	5'
22'	5'
24'	5'
26'	5'
28'	5'
30'	5'
32'	5'
34'	5'
36'	5'

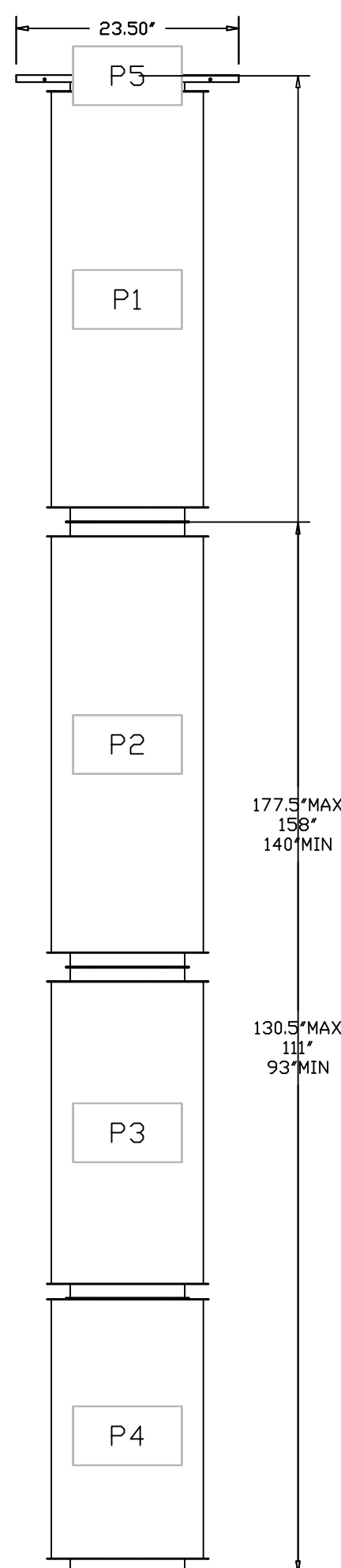
VERTICAL			
TYPE	WALL SUPPORT (FT)	CURB SUPPORT (FT)	FLOOR SUPPORT (FT)
2R & 2R HT (5'-16')	20'	24'	24'
2R (18')	18'	24'	24'
3R & 3Z (5'-24')	10'	24'	24'
3Z (26' -36')	10'	20'	20'

DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES. CONSULT WITH CAPTIVEAIRE FOR PROPER LEAK TESTING METHODS.

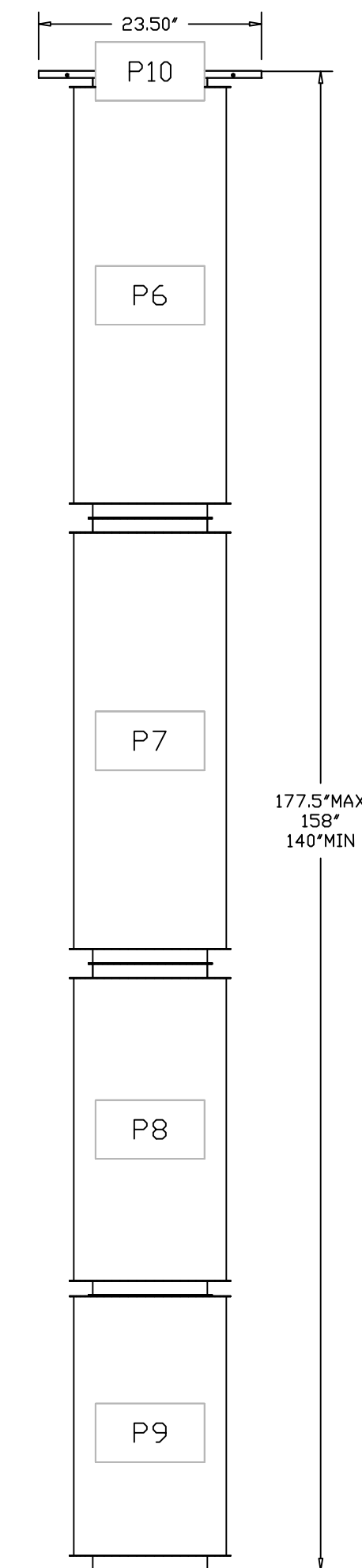
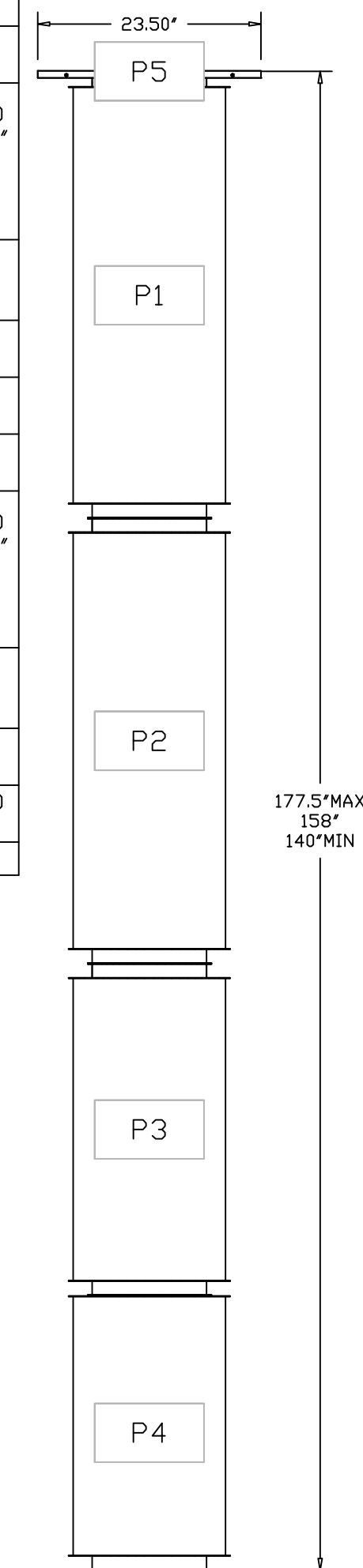
DUCTWORK #1 TOP VIEW GREASE DUCT



DUCTWORK #1 SIDE VIEW GREASE DUCT



DUCTWORK #1 FRONT VIEW GREASE DUCT



REVISIONS	
DESCRIPTION	DATE

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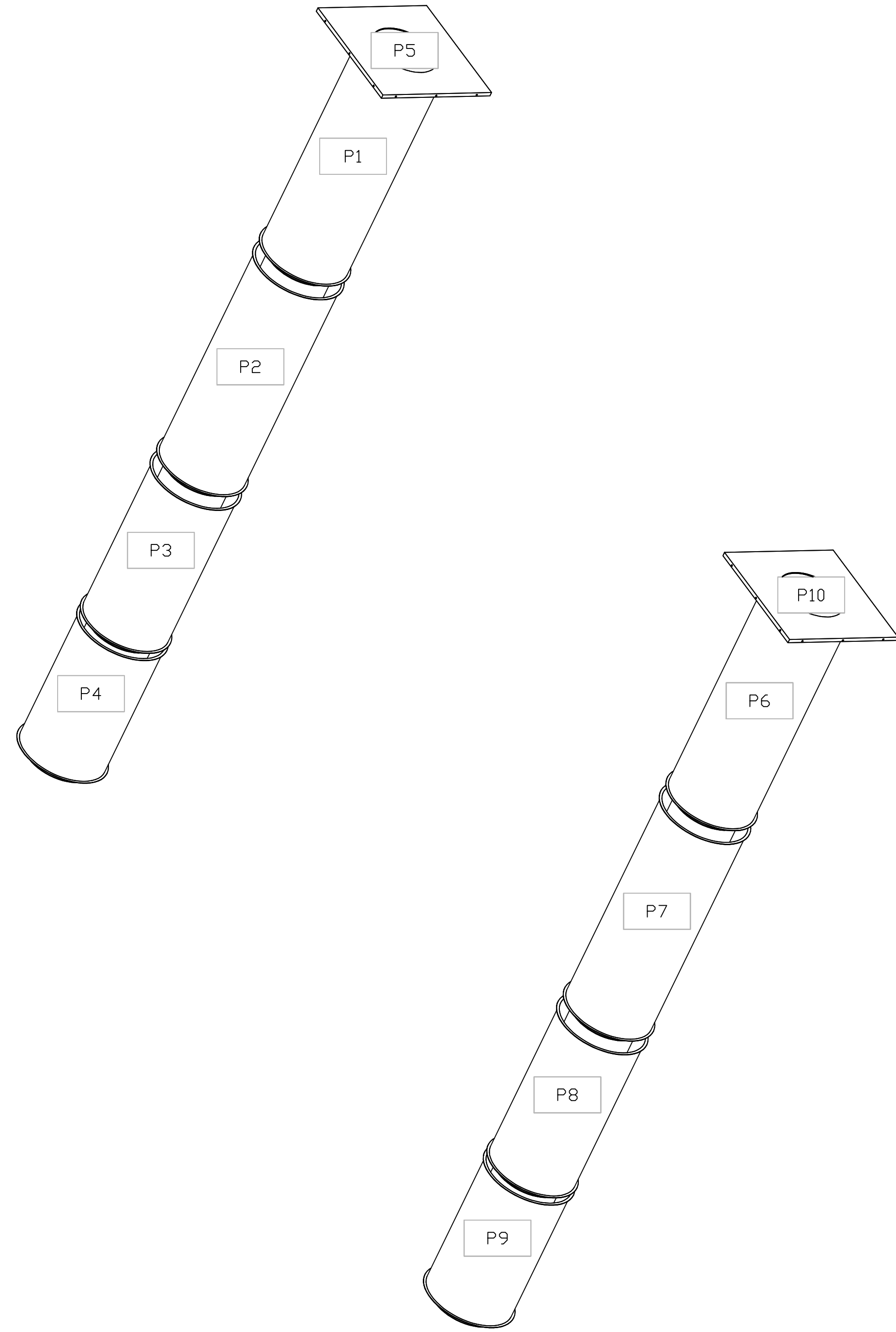
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CULVERS HIGHPOINT NC REV1
HIGH POINT, NC, 27265

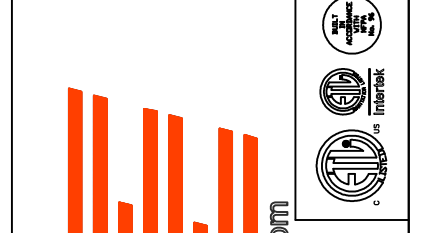
DATE: 5/8/2025
DWG #: 7327017
DRAWN BY: sluddy jr
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
14

DUCTWORK #1 SE VIEW
GREASE DUCT



REVISIONS	
DESCRIPTION	DATE
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CAPTIVE

Florida National Accounts
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CULVERS HIGHPOINT NC REV1
HIGH POINT, NC, 27265

DATE: 5/8/2025

DWG.#:
7327017

DRAWN BY: sluddy jr

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

MASTER DRAWING

SHEET NO.
15

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GENERAL NOTES:

1. DEVIATIONS FROM THE HVAC PLANS ARE THE RESPONSIBILITY OF THE HVAC CONTRACTOR & WILL NOT RESULT IN ADDITIONAL COSTS TO THE OWNER UNLESS WRITTEN CHANGE ORDERS ARE APPROVED BY THE OWNER.
2. ALL WORK TO BE PERFORMED TO STATE AND LOCAL CODES & SMACNA GUIDELINES.
3. INSTALL UNITS ACCORDING TO MANUFACTURERS GUIDELINES.
4. PROVIDE OWNER w/OPERATION & MAINTENANCE MANUALS & SYSTEM SCHEMATICS.
5. CONTRACTOR TO CONFIRM VOLTAGES & PHASES OF EQUIPMENT PRIOR TO INSTALLATION.
6. EXHAUST FANS AND FURNACE FANS TO RUN CONTINUOUSLY DURING OCCUPIED MODE.
7. VERIFY w/ OWNER EXACT HEATER LOCATION TO AVOID BUILDING FUNCTION INTERFERENCE.
8. NIGHT SET BACK THERMOSTATS TO BE INSTALLED ON ALL HVAC EQUIPMENT.
9. INSULATE DUCT WORK TO SMACNA GUIDELINES AND STATE CODES.
10. INSTALL VOLUME CONTROL DAMPERS AS INDICATED ON PLANS.
11. MAINTAIN AT LEAST 10 FEET CLEARANCE FROM INTAKES OR WINDOWS ON ALL EXHAUST VENTS.
12. RETURN AIR DUCT WORK TO BE LINED FOR SOUND ATTENUATION.
13. FLEXIBLE ROUND DUCT WORK NOT TO EXCEED 8 FEET IN LENGTH. AVOID UNNECESSARY TURNS & SLACK.
14. DUCT WORK TO BE STANDARD GAUGE SHEET METAL (FIBROUS DUCT NOT ALLOWED).
15. COORDINATE WORK WITH GENERAL CONTRACTOR & OWNER TO MAXIMIZE CEILING HEIGHT & AVOID CONFLICTS.
16. TEST, ADJUST & CALIBRATE CONTROL SYSTEMS AS REQUIRED. PROVIDE SCHEMATICS & DESCRIPTION TO THE OWNER PRIOR TO INSTALLATION.
17. INSULATE EXHAUST DUCT FOR EXHAUST FAN TO EXTERIOR TERMINATION.
18. CONTRACTOR TO VERIFY GAS METER CAPACITY WITH LOCAL GAS SUPPLIER.
19. VERIFY ALL EXISTING CONDITIONS PRIOR TO INSTALLATION (DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT REFLECT EXACT LOCATIONS OF EQUIPMENT OR OTHER APPARATUSSES.)
20. PROVIDE SHOP DRAWINGS TO THE ARCHITECT/DESIGNER FOR EQUIPMENT, FANS, REGISTERS ETC. PRIOR TO PROCUREMENT
21. PROVIDE OWNER WITH COLOR CHOICES FOR SWITCHES AND OTHER APPARATUSSES WHERE APPLICABLE.
22. VENT OWNER'S WATER HEATERS AS REQUIRED.
23. VENT DRYER TO EXTERIOR AS REQUIRED. MAINTAIN CLEARANCES FROM INTAKES AS NOTED ABOVE.
24. HANGER AND SUPPORT MATERIALS SHALL BE INSTALLED TO THE LATEST EDITION OF THE ASHRAE HANDBOOK OF FUNDAMENTALS.
25. HVAC CONTRACTOR RESPONSIBLE FOR A COMPLETE AND FULLY WORKING SYSTEM.
26. REPLACE ALL AIR FILTERS PRIOR TO TURNING SYSTEM OPERATIONS OVER TO OWNER.
27. INSTALLER IS RESPONSIBLE FOR FINAL TEST & BALANCING DURING TRAINING WEEK & PROVIDE A WRITTEN REPORT TO OWNER.
28. HVAC CONTRACTOR TO INSTALL #2 GAS w/ 14" WATER COLUMN MAX. PER STATE CODE & AGA GUIDELINES (LABEL AS REQUIRED).
29. DUCT DIMENSIONS LISTED ARE NET FREE - CLEAR INSIDE DIMENSIONS.
30. VERIFY DUCT LOCATIONS PRIOR TO FABRICATION. VERIFY LIMITED AREA FOR DUCTWORK & OTHER APPARATUSSES.
31. S/S WALL PANELS FOR THE KITCHEN AREA ARE TO BE FURNISHED AND INSTALLED BY THE HVAC CONTRACTOR. PANELS ARE TO BE 18 GA. TYPE 304 S/S. SEE DETAILS AND LOCATIONS ON THE ARCHITECTURAL DRAWINGS.
32. ALL ROOFTOP MECHANICAL EQUIPMENT WILL BE SHIELDED FROM VIEW OF THE PUBLIC RIGHT-OF-WAY AND ADJACENT STREETS BY MATERIAL COMPATIBLE WITH THE BUILDING ARCHITECTURE. BY PARAPET WALL, OR BY A DESIGNATED ROOFTOP ENCLOSURE.
33. REFERENCE FS SHEETS AND COORDINATE MECHANICAL PLANS WITH KITCHEN EQUIPMENT.

H.V.A.C. SPECIFICATIONS:

15010 MECHANICAL REQUIREMENTS:

DO ALL WORK IN COMPLIANCE WITH ALL APPLICABLE CODES, LAWS AND ORDINANCES. THE STANDARD BUILDING CODE AND THE REGULATIONS OF THE LOCAL UTILITY COMPANIES. OBTAIN AND PAY FOR ANY AND ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES OF INSPECTIONS.

COOPERATE WITH OTHER TRADES AND CONTRACTORS AT JOB. PERFORM WORK IN SUCH MANNER AND AT SUCH TIMES AS NOT TO DELAY WORK OF OTHER TRADES.

OBTAIN MANUFACTURER'S DATA ON ALL EQUIPMENT, THE DIMENSIONS OF WHICH MAY AFFECT INSTALLATION. USE THIS DATA TO COORDINATE PROPER SERVICE CHARACTERISTICS, ENTRY LOCATIONS, ETC., AND TO INSURE MINIMUM CLEARANCES ARE MAINTAINED.

WORKMAN SHALL BE EXPERIENCED IN THEIR RESPECTIVE TRADE. WORKMANSHIP OF INSTALLED WORK SHALL BE FIRST CLASS AND WILL BE SO JUDGED. SUBSTANDARD WORK SHALL BE REMOVED AND REPLACED AT CONTRACTOR'S EXPENSE.

CONTRACTOR SHALL AND DOES HEREBY WARRANT ALL MATERIALS AND EQUIPMENT FURNISHED UNDER THIS SECTION TO BE FREE FROM DEFECTS AND TO FUNCTION OR OPERATE SATISFACTORILY FOR ONE YEAR AFTER FINAL ACCEPTANCE OF THE WORK, AND THAT ANY ITEMS NOT MEETING THIS REQUIREMENT WILL BE MADE GOOD BY HIM WITHOUT ANY COST TO THE OWNER.

PROVIDE ONLY NEW, STANDARD FIRST-GRADE MATERIALS THROUGHOUT, CONFORMING TO STANDARDS ESTABLISHED BY UNDERWRITER LABORATORIES INC., AND SO MARKED AND LABELED, TOGETHER WITH MANUFACTURER'S BRAND OR TRADEMARK. ALL LIKE ITEMS SHALL BE OF ONE MANUFACTURER.

ALL WORK SHALL BE EXECUTED IN A MANNER THAT SHALL PRESENT A NEAT APPEARANCE UPON COMPLETION. CARE SHALL BE EXERCISED THAT ALL ITEMS ARE PLUMB, STRAIGHT AND LEVEL.

UPON COMPLETION OF WORK, ALL SYSTEMS SHALL BE TESTED, AND SHALL BE SHOWN TO BE IN PERFECT WORKING CONDITION IN ACCORDANCE WITH THE INTENT OF THE DRAWINGS.

ANY WALLS, CEILINGS, EQUIPMENT, ETC., DAMAGED BY THE CONTRACTOR IN CONSTRUCTION OF THIS PROJECT SHALL BE REPAIRED, RESTORED AND/OR REPLACED BY THE CONTRACTOR TO ITS ORIGINAL CONDITION, OR TO PERFORM ITS INTENDED FUNCTION, AT NO ADDITIONAL COST TO OWNER.

15055 PIPING:

PIPING SHALL BE NEW AND IN GOOD CONDITION. ALL PIPING SHALL CONFORM TO ALL APPLICABLE STATE, COUNTY AND LOCAL CODES.

PIPING SHALL BE INSTALLED PARALLEL TO BUILDING LINES.

PIPING SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO INSTALLATION. OFFSETS AS REQUIRED TO COORDINATE WITH STRUCTURE AND OTHER TRADES SHALL BE MADE AT NO ADDITIONAL COST.

PIPING SHALL BE TESTED IN ACCORDANCE WITH INDUSTRY ACCEPTED METHODS. LEAKS SHALL BE REPAIRED AND ANY LOST REFRIGERANT SHALL BE REPLACED AT NO ADDITIONAL COST.

DIELECTRIC UNIONS SHALL BE INSTALLED IN ALL COPPER AND FERROUS PIPING CONNECTIONS.

15891 DUCTWORK:

ALL DUCTWORK MATERIALS AND INSTALLATION SHALL CONFORM TO APPLICABLE STATE, COUNTY AND LOCAL CODES. DUCTWORK SHALL BE ALL NEW AND IN GOOD CONDITION.

DUCT DIMENSIONS NOTED ARE INSIDE DIMENSIONS AND DO NOT INCLUDE INSULATION OR LINER.

DUCTWORK SHALL BE INSTALLED TO AVOID CONFLICT WITH OTHER TRADES. ANY OFFSETS REQUIRED SHALL BE INSTALLED AT NO ADDITIONAL COST.

FABRICATE DUCTWORK FROM SHEET METAL. DUCT SHALL BE INSULATED WITH 3" DUCT WRAP INSULATION. DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA LOW PRESSURE DUCTWORK STANDARDS.

EXPOSED DUCTWORK IN THE DINING AREAS SHALL BE INSULATED. SPIRAL DUCT.

15990 TEST AND BALANCE:

TEST AND BALANCE ALL AIR SYSTEMS IN ACCORDANCE WITH AABC AND/OR NEBB REQUIREMENTS. ALL EQUIPMENT USED FOR TESTING SHALL BE IN PROPER WORKING ORDER.

THE CONTRACTOR SHALL REGULATE AND ADJUST ALL SPLITTERS, DEFLECTORS AND DAMPERS SO THAT THE INLET OR OUTLET SHALL DELIVER OR REMOVE THE REQUIRED NUMBER OF CUBIC FEET OF AIR PER MINUTE (CFM) AT THE RESPECTIVE OPENINGS.

15991 VIBRATION AND NOISE:

PROVIDE VIBRATION ISOLATORS AND ACOUSTIC INSULATION AS REQUIRED TO ELIMINATE ANY OBJECTIONABLE NOISE OR VIBRATION.

CONTROL NOTES

1. WIRE RTU-1, RTU-2 TO SHUT-DOWN & EXHAUST HOOD FANS TO CONTINUE TO RUN UPON ACTIVATION OF THE ANSUL SYSTEM.
2. WIRE RTU-1 & RTU-2 TO SHUT-DOWN UPON ACTIVATION OF ANY IN-DUCT SMOKE DETECTOR.
3. OCCUPIED MODE: FANS IN RTU-1 & RTU-2, EXHAUST FANS KEF-1, 2 & 3 AND EF-1, 2 & 3 TO RUN CONTINUOUSLY.
4. UNOCCUPIED MODE: FANS IN RTU-1 & RTU-2 TO RUN ONLY WHEN COOLING OR HEATING IS CALLED FOR.

RTU SETTINGS FOR CULVERS

Kitchen Unit

Parameter 3.01 HEAT DELAY NEEDS TO BE SET TO "DISABLED". CONTROL PARAMETER 3.01=0 Pg. 92
ECONOMIZER DIP SWITCHES A58 (EM1) NEED TO BE SET TO "GLOBAL" MODE. 1=ON 2=OFF (PG. 5 FIG 8)
ECONOMIZER MIN POSITION POTENTIOMETER NEEDS TO BE DETERMINED AND SET BY AIR BALANCER. (Pg. 52 FIG 33)
BOTH THE THERMOSTAT AND THE HOOD FANS MUST BE TIED INTO TB1 TERMINAL 8&9 FOR OCC/UNOCC CONTROL.
FRESH AIR TEMPERING (HEATING) CONTROL PARAMETER 6.20=160 °55F" (KITCHEN IS USUALLY IN COOLING MODE)
(PARAMETER 6.20 Pg 99, x CHARTS Pg 109)

Dining Room Unit

PARAMETER 3.01 HEAT DELAY NEEDS TO BE SET TO "DISABLED". CONTROL PARAMETER 3.01=0 Pg 92
ECONOMIZER DIP SWITCHES A56 (EM1) NEED TO BE SET TO ECONOMIZER TYPE PURCHASED/INSTALLED. 1=7 2=?
(Pg 5 FIGURE 8)
ECONOMIZER MIN POSITION POTENTIOMETER NEEDS TO BE DETERMINED AND SET BY AIR BALANCER. (Pg 52 FIGURE 33)
THE THERMOSTAT MUST BE TIED INTO TB1 TERMINAL 8&9 FOR OCC/UNOCC CONTROL.
FRESH AIR TEMPERING (HEATING) CONTROL PARAMETER 6.20=142 °68F" (ROOM NEUTRAL)
(PARAMETER 6.20 PAGE 99; x CHARTS PAGE 109)

OTHER PARAMETERS THAT WE DIDN'T SET, BUT ARE PART OF START-UP:

- ROOM SET POINT
- REMOTE SENSOR OPERATION
- TEMP DEADBANDS

CHECK FOR CORRECT OPERATION AND WIRING OF ALL SENSORS.

TEST AND BALANCE NOTE:

HOOD MANUFACTURER WILL PROVIDE BALANCED AIRFLOW AND FUNCTIONAL CHARACTERISTICS OF THE HVAC AS THEY RELATE TO AIRFLOW AND RESISTANCE ONLY. SERVICES TO BE PERFORMED BY A CERTIFIED NEBB FIRM AND ITS MANAGING GROUP - NATIONAL TAB

NOTE : KITCHEN HOODS AND FANS SUPPLIED AND INSTALLED BY HVAC CONTRACTOR--MINIMUM FOUR WEEK LEAD TIME

ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR.
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ELLIJAY, GEORGIA 30540

SEAL:



FOR CONSTRUCTION

ISSUES / REVISIONS:

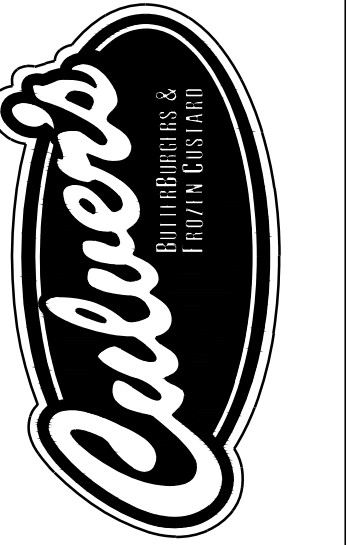
DATE	DESCRIPTION

DRAWN BY: RGV

CHKD BY: RGV

PROJECT TITLE:

LOCATION: 3904 SEDGEBROOK ST. HIGH POINT, NC 27265



Culver Franchising System, Inc.
1240 Water Street
Prairie du Sac, WI 53578
608-643-7980
METRO M

SHEET TITLE:

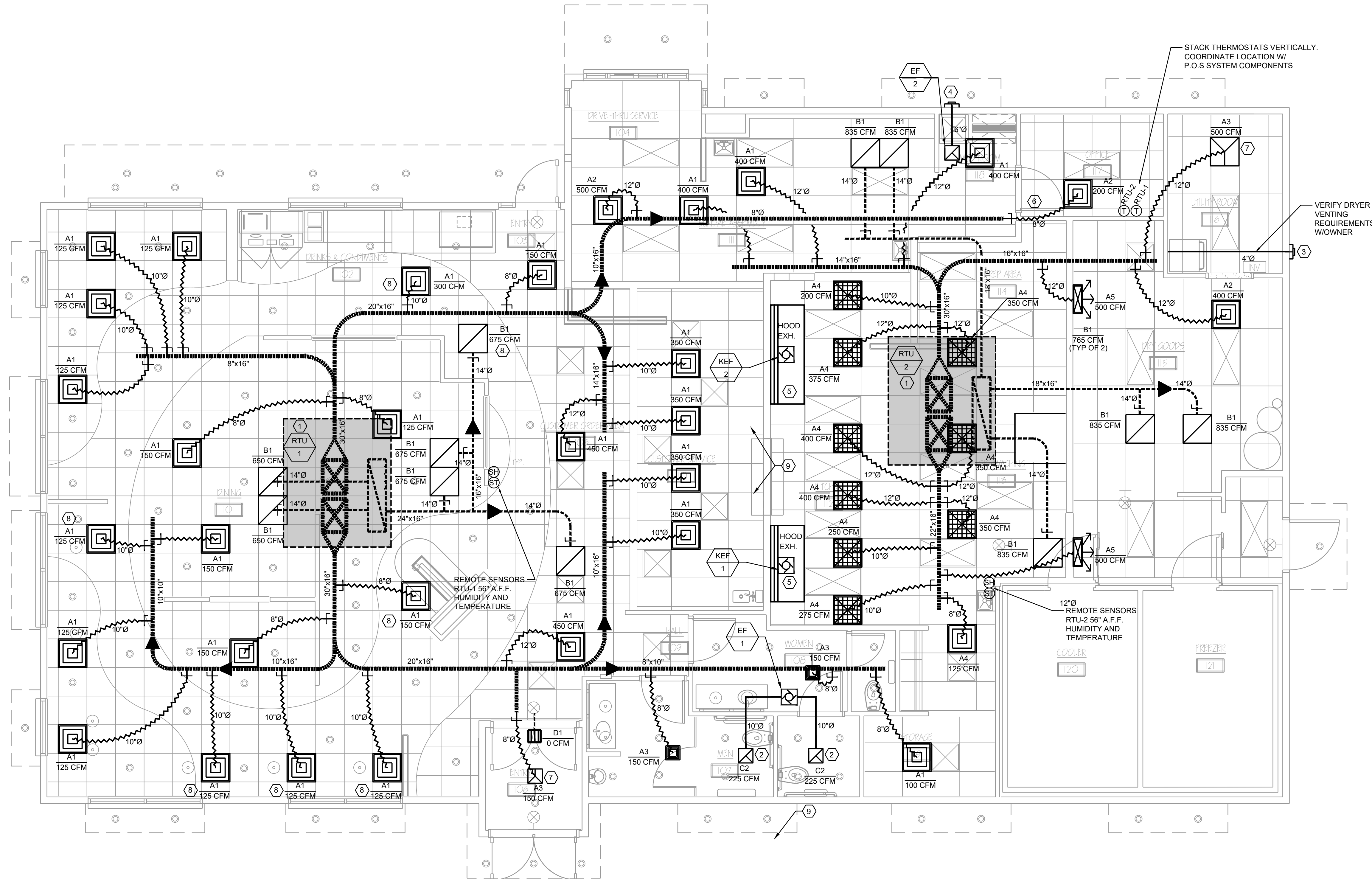
H.V.A.C. LEGENDS AND SPECIFICATIONS

PROJECT NO: 24063

RAMON VELAZQUEZ
 5064 Roswell Road, Suite D-301
 Sandy Springs GA 30342 770.319.7400
 Project 23090.004 ©2025

M001

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STACK THERMOSTATS VERTICALLY.
COORDINATE LOCATION W/
P.O.S SYSTEM COMPONENTS

VERIFY DRYER
VENTING
REQUIREMENTS
W/OWNER

1 FLOOR PLAN - H.V.A.C.
M101 1/4" = 1'-0"

H.V.A.C. LEGEND:

- SUPPLY DIFFUSER
- RETURN AIR GRILLE
- EXHAUST AIR GRILLE
- TRANSFER GRILLE
- X" x X" RIGID DUCTWORK (WIDTH x DEPTH)
- DUCT SIZE TRANSITION
- X" FLEX DUCTWORK (DIAMETER)
- ELBOW WITH TURNING VANES
- MANUAL VOLUME DAMPER
- T THERMOSTAT MOUNTED 48" AFF
- SH TEMPERATURE AND HUMIDITY REMOTE SENSORS MOUNTED 56" AFF

H.V.A.C. KEYNOTES (X):

1. ROUTE FULL SIZE PVC CONDENSATE DRAIN LINE FROM RTU WITH P-TRAP TO NEAREST ROOF DRAIN OR GUTTER.
2. ROUTE GALV. STEEL EXHAUST DUCT FROM EXHAUST GRILLE TO FAN AT ROOF.
3. ROUTE 4" GALV. STEEL EXHAUST DUCT FROM DRYER TO CAP AT EXTERIOR WALL.
4. ROUTE GALV. STEEL EXHAUST DUCT FROM CEILING MOUNT EXHAUST FAN TO CAP AT EXTERIOR WALL.
5. REPRODUCTION OF THE KITCHEN CONSULTANT DRAWINGS IS PROVIDED ON SHEETS M40X. FINAL COORDINATION SHOULD BE WITH KITCHEN CONSULTANT DOCUMENTATION.
6. PROVIDE WITH 10" X 8" SIGHT TIGHT DOOR TRANSFER GRILLE MOUNTED AT BOTTOM OF DOOR EQUAL TO CARNES MODEL RFJAD (SIZED TO ALLOW 200 CFM AIR FLOW).
7. 3-WAY DIFFUSER.
8. PROVIDE DIFFUSER WITH FLAT BLACK FINISH.
9. MAINTAIN MIN. 10 FT FROM EXHAUST FAN AND ANY OUTSIDE AIR INTAKES.

RAMON VELAZQUEZ

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Project 23090.004 ©2025

ARCHITECT OF RECORD:

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DATE	DESCRIPTION

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CHKD BY: RGV

PROJECT TITLE:

LOCATION:
3904 SEDGEBROOK
ST. HIGH POINT, NC
27265



Culver Franchising
System, Inc.
1240 Water Street
Prairie du Sac, WI 53578
608-643-7980
METRO M

SHEET TITLE:

FLOOR PLAN - H.V.A.C.

PROJECT NO: 24063

M101

VENTILATION REQUIREMENT SCHEDULE

SERVED BY	ROOM	SPACE TYPE	NUMBER OF PEOPLE	OUTDOOR AIRFLOW RATE REQ'D (R _p)	AREA (sf)	OUTDOOR AIRFLOW RATE REQ'D PER SF (R _a)	R _p x P _z	R _a x A _z	BREATHING ZONE OUTDOOR AIRFLOW (V _{bz})	AIR DISTRIBUTION CONFIGURATION	ZONE AIR DIST. EFFECT. (E _z)	ZONE OUTDOOR AIRFLOW (V _{oz} =V _{bz} /E _z)	TOTAL OUTDOOR AIR INTAKE REQ'D (V _{oa})	TOTAL OUTDOOR AIR INTAKE PROVIDED
RTU-1	101 - DINING	CAFETERIA / FAST FOOD DINING	90	7.5	1590	0.18	675	287	962	CEILING SUPPLY OF WARM AIR 15°F OR MORE ABOVE SPACE TEMPERATURE AND CEILING RETURN	0.8	1302	1302	2000
	104 - DRIVE THRU	CAFETERIA / FAST FOOD DINING	5	7.5	132	0.18	38	24	62					
	106 - ENTRY	CORRIDORS	0	0	49	0.06	0	3	3					
	107 - MENS RESTROOM	NONE	0	0	91	0	0	0	0					
	108 - WOMEN'S RESTROOM	NONE	0	0	121	0	0	0	0					
	117 - OFFICE	OFFICE SPACE	2	5	72	0.06	10	5	15					
UNIT TOTAL									1042					
RTU-2	111 - SUNDAE PREP	CAFETERIA / FAST FOOD DINING	2	7.5	106	0.18	15	20	35	CEILING SUPPLY OF WARM AIR 15°F OR MORE ABOVE SPACE TEMPERATURE AND CEILING RETURN	0.8	331	331	2000
	112 - KITCHEN	KITCHEN (COOKING)	15	7.5	577	0.12	113	70	183					
	115 - DRY GOODS	STORAGE ROOMS	0	0	332	0.12	0	40	40					
	116 - UTILITY ROOM	NONE	0	0	90	0	0	0	0					
	118 - MOP ROOM	NONE	0	0	103	0	0	0	0					
	119 - STORAGE	STORAGE ROOMS	0	0	52	0.12	0	7	7					
UNIT TOTAL									265					

NOTE:
REQUIRED OUTSIDE AIR CFM VALUES BASED ON ANSI/ASHRAE STANDARD 62.1-2022.

EXHAUST FAN SCHEDULE

UNIT LABEL	AREA SERVED	MFG	MODEL	LOCATION	DRIVE	TYPE	CFM	S.P. (IN WG)	MOTOR				NOTE(S)
									W	HP	RPM	V/Ø	
PRV-1	RESTROOMS	CAPTIVEAIRE	DR12HFA	ROOF	DIRECT	DOWNBLAST	450	0.5	-	0.25	1466	120/1	1 - 3
PRV-2	KITCHEN GRIDDLE	CAPTIVEAIRE	DU85HFA	ROOF	DIRECT	UPBLAST	1500	1.8	-	1	1538	120/1	1 - 3
PRV-3	KITCHEN FRYER	CAPTIVEAIRE	DU85HFA	ROOF	DIRECT	UPBLAST	1500	1.25	-	1	1348	120/1	1 - 3
EF-1	MOP ROOM	CAPTIVEAIRE	CFA 100CA	CEILING	DIRECT	CEILING	75	0.125		0.12	493	120/1	1 - 3

NOTES:
1. PROVIDE WITH FAN SPEED CONTROLLER, BACKDRAFT DAMPER AND DISCONNECT SWITCH.
2. SEE CONTROL NOTES ON SHEET M001.
3. SEE SHEETS M4XX AND REFERENCED KITCHEN CONSULTANT DRAWINGS FOR SPECIFIC INFORMATION.

GRILLE/DIFFUSER SCHEDULE

MARK	CFM	NECK SIZE	TYPE	MFG	MODEL	NOTES
A1	0-100	6"	FIXED STAMPED SQUARE LOUVERED DIFFUSERS	RAYMON	PRO2	2, 4, 5
	101-200	8"				
	201-400	10"				
	401-600	12"				
A2	0-100	6"	ADJUSTABLE STAMPED SQUARE LOUVERED DIFFUSERS	RAYMON	PRO2	2, 4 - 6
	101-200	8"				
	201-400	10"				
	401-600	12"				
A3	0-100	6"	BEVELED FRAME FIXED DISCHARGE LOUVERED FACE DIFFUSER	RAYMON	PRO2/QMF	1, 4, 5, 7
	101-200	8"				
	201-400	10"				
A4	0-100	6"	PERFORATED SQUARE CEILING MOUNTED SUPPLY DIFFUSER	RAYMON	RPR	1, 2, 4, 5
	101-200	8"				
	201-400	10"				
	401-600	12"				
A5	0-350	12x8	DOUBLE DEFLECTION SUPPLY GRILLE	RAYMON	RA-HVD	3, 4, 5
	351-600	24x8				
B1	0-125	6x6	EGGCRATE RETURN AIR GRILLE	RAYMON	ECR-TB	2, 3, 4, 5
	126-250	8x8				
	251-400	10x10				
	401-600	12x12				
	601-900	15x15				
	901-1350	18x18				
C1	0-125	6x6	EGGCRATE EXHAUST AIR GRILLE	RAYMON	ECR	1 - 5
	126-250	8x8				
	251-400	10x10				
C2	0-125	6x6	LOUVERED EXHAUST AIR GRILLE	RAYMON	RA-HVD	1, 3, 4, 5, 7
	126-250	8x8				
	251-400	10x10				
D1	150	12x4	45° FIXED DEFLECTION TRANSFER AIR GRILLE	RAYMON	RA-RH	4, 5, 8

NOTES:
1. PROVIDE WITH ADJUSTABLE OPPOSED BLADE DAMPER.
2. PROVIDE 24x24 NOMINAL FACE, T-BAR FRAME STYLE WHERE LOCATED IN LAYIN CEILING.
3. PROVIDE SQUARE TO ROUND NECK TRANSITION WHERE APPLICABLE.
4. COORDINATE BORDER TYPES WITH ARCHITECTURAL FLOOR PLAN AND REFLECTED CEILING PLAN.
5. COORDINATE FINISH WITH ARCHITECTURAL FLOOR PLAN AND REFLECTED CEILING PLAN.
6. PROVIDE KODA EXTENSION ROD W/KNOB.
7. 12x12 NOMINAL PANEL SIZE.
8. MOUNT SO THE OCCUPANT CANNOT SEE INTO THE DUCT.

BUILDING AIR BALANCE

EQUIPMENT	OUTSIDE	EXHAUST
RTU-1	2,000	
RTU-2	2,000	
PRV-1		450
PRV-2		1,500
PRV-3		1,500
EF-1		75
TOTALS	4,000	3,525
TOTAL BUILDING PRESSURE		475

NOTE TO GENERAL CONTRACTOR (GC) AND SUB-CONTRACTORS:
MECHANICAL AND PLUMBING SUBMITTALS SHALL HAVE AN APPROVAL SIGNATURE FROM THE ELECTRICAL SUBCONTRACTOR INDICATING THAT THE ELECTRICAL CONTRACTOR HAS REVIEWED THE SUBMITTALS AND HAS COMPARED THE ELECTRICAL REQUIREMENTS OF THE SUBMITTED EQUIPMENT WITH THE PLANS AND HAS MADE ANY REQUIRED ADJUSTMENTS TO THE ELECTRICAL GEAR. ANY MECHANICAL OR PLUMBING SUBMITTAL THAT HAS A POWER REQUIREMENT THAT IS SUBMITTED WITHOUT THE SIGNATURE APPROVAL OF THE ELECTRICAL CONTRACTOR WILL BE RETURNED WITHOUT COMMENT.

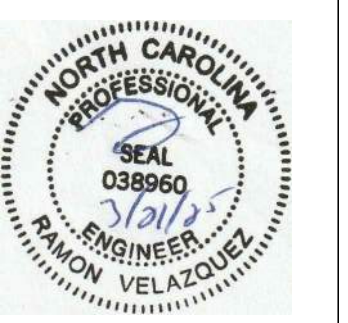
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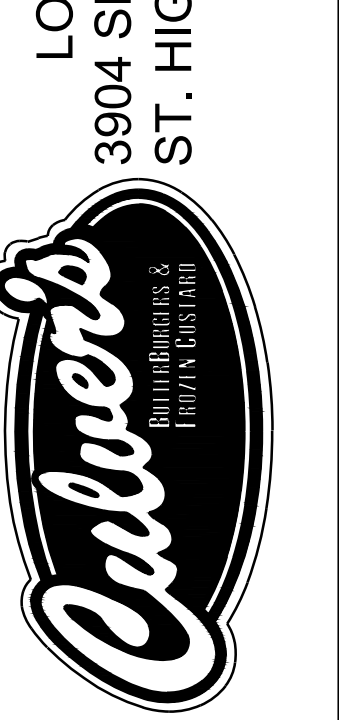
DATE	DESCRIPTION

DRAWN BY: RGV

CHKD BY: RGV

PROJECT TITLE:

LOCATION:
3904 SEDGEBROOK
ST. HIGH POINT, NC
27265



Culver Franchising
System, Inc.
1240 Water Street
Prairie du Sac, WI 53578
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SHEET TITLE:

H.V.A.C. SCHEDULES

PROJECT NO: 24063

**RAMON
VELAZQUEZ**

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M201

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DOAS/RTU FAN SCHEDULE - JOB#7327017																																								
FAN INFORMATION					ELECTRICAL INFORMATION					COOLING INFORMATION					REHEAT INFORMATION					GAS HEAT INFORMATION					AUL MINIMUM ROOM VOLUME					NOTES										
FAN UNIT NO	TAG	QTY	DOAS/RTU MODEL #	MANUFACTURER	BLOWER	RETURN AIR CFM	MAX OUTSIDE AIR CFM	TOTAL CFM	WEIGHT (LBS)	ESP	HP	PHASE	VOL. ICA	KECP	OUTSIDE AIR DB	MIXED AIR DB	LEAVING AIR DB	CAPACITY TOTAL	ICEP	ISRE	DISCHARGE DB	VOLUME DB	REHEAT DB	REHEAT CAPACITY	REHEAT RATE	GAS TYPE	INPUT BTUS	OUTPUT BTUS	TEMP RISE	REQUIRED INPUT GAS PRESSURE	ROOM AREA (SQ FT)	AIRFLOW (CFM)	HEIGHT (FT)	NOTES						
5	RTU-1 DINING	1	CAS-HVAC3-1300-24-20T	CAPTIVEAIRE	24MF-3-RTU	4000	2000	6000	2777	1250	10.00	3	208	103.1A	125A	87.3°F	76.6°F	79.1°F	67.4°F	53.1°F	53.1°F	53.2°F	251.7	18.2	6.0	70.0°F	60.1°F	10.6	MBH129.6	MBH82.2	LBS/HR	NATURAL	27936	26269	35°F	7 IN. W.C. - 14 IN. W.C.	6021	1084	7.2	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19
6	RTU-1 KITCHEN	1	CAS-HVAC3-1300-24-20T	CAPTIVEAIRE	24MF-3-RTU	4000	2000	6175	2777	1250	10.00	3	208	103.1A	125A	87.3°F	76.6°F	79.1°F	67.4°F	53.1°F	53.1°F	53.2°F	251.7	18.2	6.0	70.0°F	60.1°F	10.6	MBH129.6	MBH82.2	LBS/HR	NATURAL	19954	16163	25°F	7 IN. W.C. - 14 IN. W.C.	6021	1084	7.2	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19

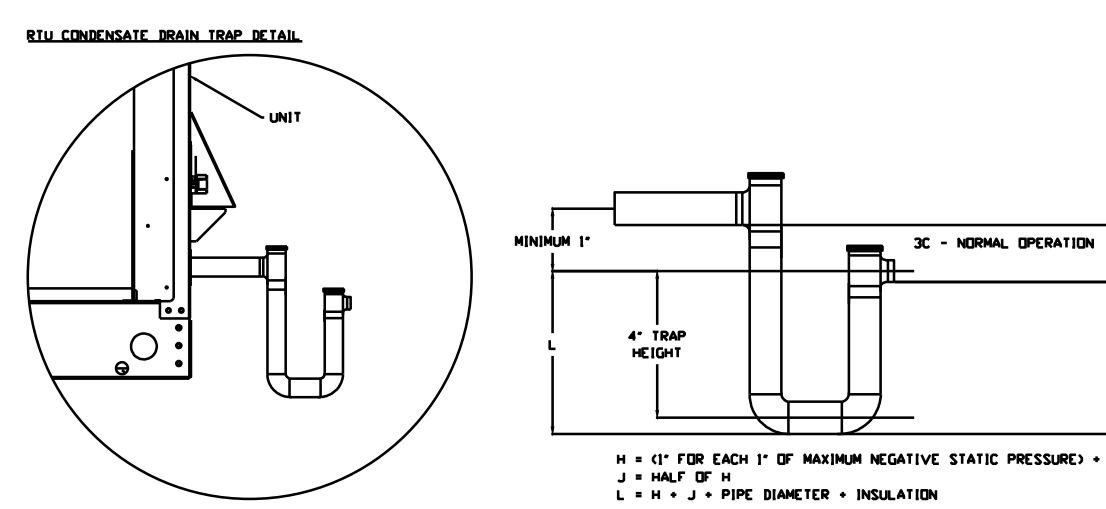
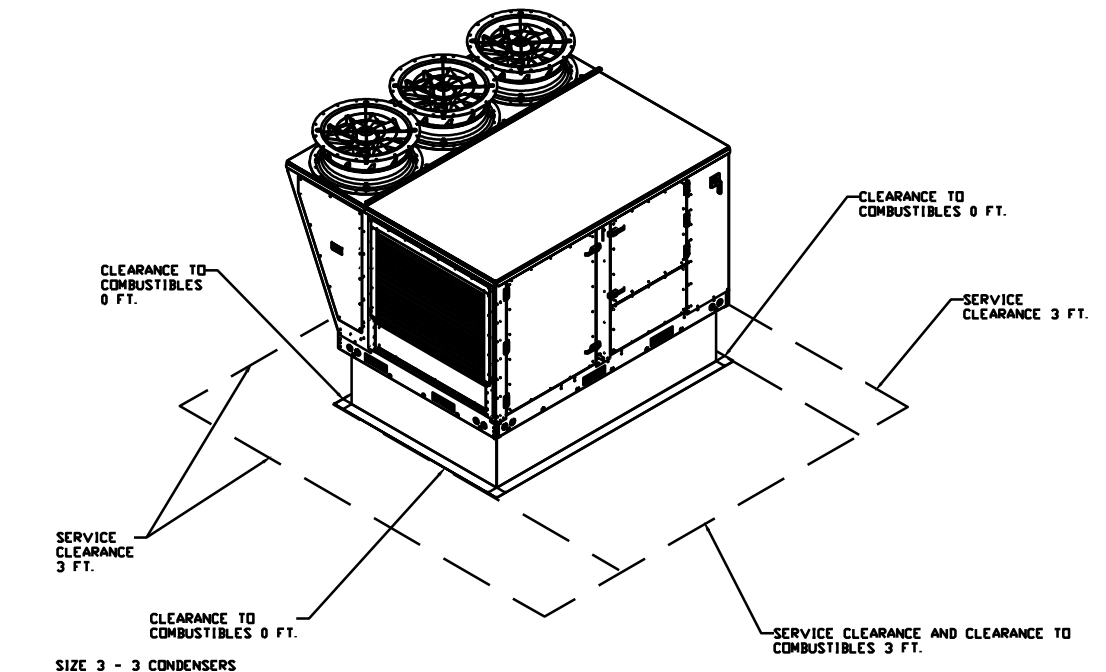
- NOTES:**
- INVERTER SCROLL COMPRESSOR WITH INTEGRATED OIL SENSOR. DIGITAL OR STAGED SCROLL NOT AN APPROVED EQUAL.
 - DIRECT DRIVE PLUMBA BLOWERS. BELT DRIVEN BLOWERS ARE NOT ACCEPTABLE.
 - INTEGRATED MONITORING VIA CELLULAR CONNECTION BY MANUFACTURER.
 - REFRIGERATION PRESSURE MONITORING ON HIGH AND LOW PRESSURE SIDE OF SYSTEM INCLUDED THROUGH DIGITAL INTERFACE.
 - RECORD CONDENSING FAN.
 - ELECTRONIC EXPANSION VALVE. TXV NOT ACCEPTABLE.
 - 5 YEAR PARTS WARRANTY.
 - FACTORY COMMISSIONING WITH 5 YEAR PARTS WARRANTY, 25 YEAR WARRANTY ON STAINLESS STEEL HEAT EXCHANGER.
 - AVOIDING INTAKE, EXHAUST AND DISCHARGE TEMPERATURE SENSORS DISCHARGE SENSOR TO BE FACTORY MOUNTED WITHIN UNIT.
 - 2" EXTERIOR DUAL-WALL CONSTRUCTION W/ R-13 INSULATION-MINIMUM ROGA EXTERIOR W/ TGA BASE.
 - 80% EFFICIENT FURNACE WITH MODULATING INDOOR TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE: 61 TURNDOWN WITH NG AND 51 TURNDOWN WITH LP.
 - SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE.
 - FULLY MODULATING NOT GAS READY.
 - 15 DEGREE LOW AMBIENT OPERATION.
 - HAZ. GUARD FOR CONDENSING COIL.
 - RTU ECONOMIZER WITH FIXED ENTHALPY CONTROL.
 - BAROMETRIC RELIEF DAMPER.

FAN UNIT NO	TAG	QTY	DESCRIPTION	FAN UNIT NO	TAG	QTY	DESCRIPTION
1	PRV-1 RESTROOM	1	1 1/2-800 DAMPER	6	RTU-1 KITCHEN	1	RTU-1 MAIL GUARD
1	PRV-1 RESTROOM	1	ECH WIRING PACKAGE - MANUAL DR 0-10VDC REFERENCE SPEED CONTROL -MSC- (TELEDD, CCW ROTATION)	6	RTU-1 KITCHEN	1	RTU DOWN RETURN
1	PRV-1 RESTROOM	1	12 YEAR PARTS WARRANTY	6	RTU-1 KITCHEN	1	REHEAT TEMPERATURE AND HUMIDITY SPACE SENSOR
1	PRV-1 RESTROOM	1	GREASE BOX	6	RTU-1 KITCHEN	1	VAV PACKAGE W/ MANUAL/BOC CONTROL (571 VFD INCLUDED)
2	PRV-2 GRIDDLE	1	FAN BASE CERAMIC SEAL - DU/DRBSHA - INSTALLED AT PLANT - FOR GREASE DUCTS	6	RTU-1 KITCHEN	1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS)
2	PRV-2 GRIDDLE	1	ECH WIRING PACKAGE - MANUAL DR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELEDD MOTOR, CCW ROTATION)	6	RTU-1 KITCHEN	1	EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET
2	PRV-2 GRIDDLE	1	12 YEAR PARTS WARRANTY	6	RTU-1 KITCHEN	1	INLET PRESSURE GAUGE, 0-35"
2	PRV-2 GRIDDLE	1	GREASE BOX	6	RTU-1 KITCHEN	1	MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 1 FURNACE
2	PRV-2 GRIDDLE	1	FAN BASE CERAMIC SEAL - DU/DRBSHA - INSTALLED AT PLANT - FOR GREASE DUCTS	6	RTU-1 KITCHEN	1	COOLING OVERRIDE
2	PRV-2 GRIDDLE	1	ECH WIRING PACKAGE - MANUAL DR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELEDD MOTOR, CCW ROTATION)	6	RTU-1 KITCHEN	1	SHIP LOSS GAS STRAINER 1"
2	PRV-2 GRIDDLE	1	12 YEAR PARTS WARRANTY	6	RTU-1 KITCHEN	1	SINGLE POINT ELECTRICAL CONNECTION FOR RTU 750VA TRANSFORMER USED. IF A NON-DCV PREWIRE CONTROL IS USED THE 400, #47, #46, OR #42 PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE.
3	PRV-3 FRYER	1	FAN CONTROL - 3 AMP WHITE SPEED CONTROL FOR CFA CEILING FAN	6	RTU-1 KITCHEN	1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED
3	PRV-3 FRYER	1	12 YEAR PARTS WARRANTY	6	RTU-1 KITCHEN	1	RTU BLOWER DOOR SWITCH
3	PRV-3 FRYER	1	INLET PRESSURE GAUGE, 0-35"	6	RTU-1 KITCHEN	1	RTU DOWN DISCHARGE
3	PRV-3 FRYER	1	MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 1 FURNACE	6	RTU-1 KITCHEN	1	2" MERV 13 FILTERS FOR RTU3 (QTY: 4)
3	PRV-3 FRYER	1	COOLING OVERRIDE	6	RTU-1 KITCHEN	1	2" MERV 8 FILTERS FOR RTU3 (QTY: 4)
3	PRV-3 FRYER	1	SHIP LOSS GAS STRAINER 1"	6	RTU-1 KITCHEN	1	OVERHEAT STAT
3	PRV-3 FRYER	1	SINGLE POINT ELECTRICAL CONNECTION FOR RTU 750VA TRANSFORMER USED. IF A NON-DCV PREWIRE CONTROL IS USED THE 400, #47, #46, OR #42 PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE.	6	RTU-1 KITCHEN	1	TOTAL CFM MONITORING
3	PRV-3 FRYER	1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED	6	RTU-1 KITCHEN	1	20 TON MODULATING COOLING OPTION, R208/R209, R454B REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS
3	PRV-3 FRYER	1	RTU BLOWER DOOR SWITCH	6	RTU-1 KITCHEN	1	LOW AMBIENT COOLING OPERATION - DOWN TO 0° AMBIENT
3	PRV-3 FRYER	1	RTU DOWN DISCHARGE	6	RTU-1 KITCHEN	1	R454B LEAK DETECTOR OPTION FOR RTUS
3	PRV-3 FRYER	1	2" MERV 13 FILTERS FOR RTU3 (QTY: 4)	6	RTU-1 KITCHEN	1	OCCUPIED SCHEDULING
3	PRV-3 FRYER	1	2" MERV 8 FILTERS FOR RTU3 (QTY: 4)	6	RTU-1 KITCHEN	1	DISCHARGE FIRESTAT SET TO 135°F
3	PRV-3 FRYER	1	OVERHEAT STAT	6	RTU-1 KITCHEN	1	PREZESTAT
3	PRV-3 FRYER	1	TOTAL CFM MONITORING	6	RTU-1 KITCHEN	1	DISCHARGE FIRESTAT SET TO 240°F
3	PRV-3 FRYER	1	VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE	6	RTU-1 KITCHEN	1	20 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL - R454B
3	PRV-3 FRYER	1	20 TON MODULATING COOLING OPTION, R208/R209, R454B REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS	6	RTU-1 KITCHEN	1	RTU3 CURB BUCT HANGER
3	PRV-3 FRYER	1	LOW AMBIENT COOLING OPERATION - DOWN TO 0° AMBIENT	6	RTU-1 KITCHEN	1	24VAC FIRE INPUT
3	PRV-3 FRYER	1	R454B LEAK DETECTOR OPTION FOR RTUS	6	RTU-1 KITCHEN	1	RTU RETURN MOUNTED SMOKE DETECTOR AND SAMPLING TUBE - FACTORY INSTALLED
3	PRV-3 FRYER	1	OCCUPIED SCHEDULING	6	RTU-1 KITCHEN	1	RTU CONVENIENCE OUTLET (GFI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION
3	PRV-3 FRYER	1	DISCHARGE FIRESTAT SET TO 135°F	6	RTU-1 KITCHEN	1	INCLUDES RECEPTACLE, COVER AND J-BOX
3	PRV-3 FRYER	1	PREZESTAT	6	RTU-1 KITCHEN	1	RTU ECONOMIZER - FIXED ENTHALPY CONTROL
3	PRV-3 FRYER	1	DISCHARGE FIRESTAT SET TO 240°F	6	RTU-1 KITCHEN	1	RTU ECONOMIZER BAROMETRIC RELIEF
3	PRV-3 FRYER	1	20 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL - R454B	6	RTU-1 KITCHEN	1	RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI
3	PRV-3 FRYER	1	RTU3 CURB BUCT HANGER	6	RTU-1 KITCHEN	1	RTU MAIL GUARD
3	PRV-3 FRYER	1	24VAC FIRE INPUT	6	RTU-1 KITCHEN	1	RTU DOWN RETURN
3	PRV-3 FRYER	1	RTU RETURN MOUNTED SMOKE DETECTOR AND SAMPLING TUBE - FACTORY INSTALLED	6	RTU-1 KITCHEN	1	REHEAT TEMPERATURE AND HUMIDITY SPACE SENSOR
3	PRV-3 FRYER	1	RTU CONVENIENCE OUTLET (GFI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION	6	RTU-1 KITCHEN	1	VAV PACKAGE W/ 0-10VDC INPUT CONTROL (571 VFD INCLUDED)
3	PRV-3 FRYER	1	INCLUDES RECEPTACLE, COVER AND J-BOX	6	RTU-1 KITCHEN	1	VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE
3	PRV-3 FRYER	1	RTU ECONOMIZER - FIXED ENTHALPY CONTROL	6	RTU-1 KITCHEN	1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS)
3	PRV-3 FRYER	1	RTU ECONOMIZER BAROMETRIC RELIEF	6	RTU-1 KITCHEN	1	EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET
3	PRV-3 FRYER	1	RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI	6	RTU-1 KITCHEN	1	

FAN UNIT NO	TAG	EXHAUST	SUPPLY
1	PRV-1 RESTROOM	GREASE GRABBER WALL DAMPER	WALL DAMPER
2	PRV-2 GRIDDLE	YES	YES
3	PRV-3 FRYER	YES	YES
4	EF-1		

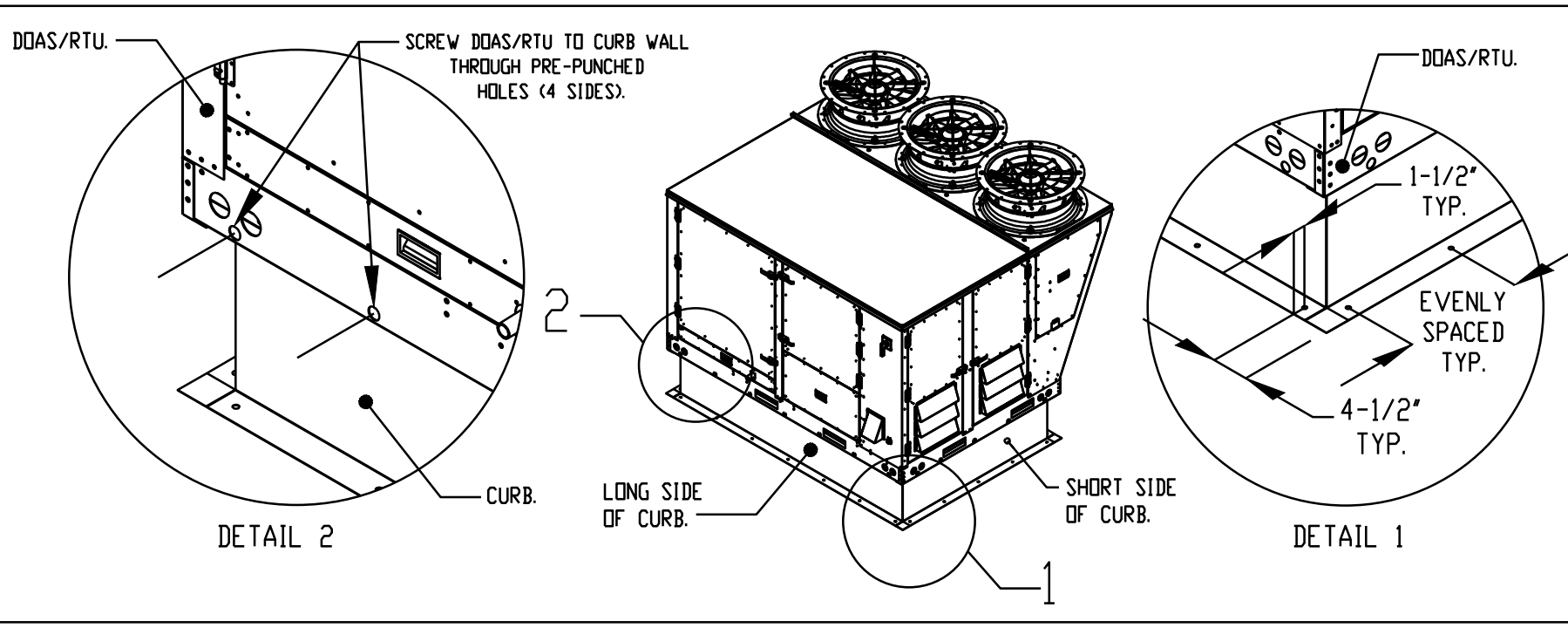
NO	FAN	TAG	WEIGHT	ITEM	SIZE
1	1	PRV-1 RESTROOM	29 LBS	CURB	17.500"W X 17.500"H X 20.000"H INSULATED
2	2	PRV-2 GRIDDLE	49 LBS	CURB	23.000"W X 23.000"H X 28.000"H INSULATED HINGED
3	3	PRV-3 FRYER	49 LBS	CURB	23.000"W X 23.000"H X 28.000"H INSULATED HINGED
5	5	RTU-1 DINING	104 LBS	CURB	59.500"W X 91.000"H X 14.000"H 0.250/12.000 PITCH ALONG WIDTH, LEFT INSULATED
6	6	RTU-1 KITCHEN	104 LBS	CURB	59.500"W X 91.000"H X 14.000"H 0.250/12.000 PITCH ALONG WIDTH, LEFT INSULATED

UNIT NUMBER	HMI #	HMI LOCATION	TEMP AVERAGING	MODBUS ADDRESS
FAN #5	HMI #1 - UNIT	IN UNIT	AVG	55
FAN #5	HMI #2 - SPACE	AVG	56	
FAN #6	HMI #1 - UNIT	IN UNIT	AVG	55
FAN #6	HMI #2 - SPACE	AVG	56	

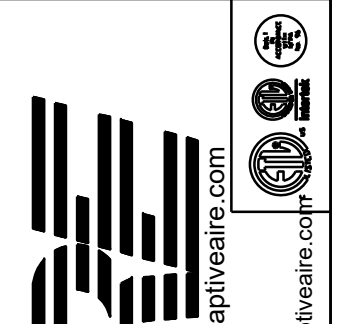


TYPICAL DOAS/RTU ROOF MOUNTING INSTALLATION INSTRUCTIONS

- SECURE THE CURB TO THE ROOF FRAMING MEMBERS BY DRILLING 1/4" PILOT HOLES IN THE CURB FLANGES AT LOCATIONS SHOWN IN THE DIAGRAM BELOW USING 3/8" X 2" ZINC PLATED STEEL LAG BOLTS, AND ZINC PLATED WASHERS. SCREW THROUGH THE CURB FLANGES AND INTO THE ROOF FRAMING MEMBERS. A MINIMUM OF (5) LAG BOLTS ON EACH SHORT SIDE, AND (7) LAG BOLTS ON EACH LONG SIDE IS REQUIRED.
- SECURE THE UNIT BASE TO THE SIDE WALLS OF THE CURB USING (24) 1/4"-14 X 2" SELF-DRILLING, STEEL ZINC PLATED SCREWS. PRE-PUNCHED HOLES HAVE BEEN PROVIDED FOR EACH SCREW LOCATION.



REVISIONS	DESCRIPTION	DATE



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 Florida National Accounts
 230 N Hunt Club Blvd., STE 201, Longwood, FL 32779 PHONE: (407) 882-3100 FAX: 9192225913 EMAIL: mg@captivaire.com
 www.captivaire.com

CULVERS HIGHPOINT NC REV1
 HIGH POINT, NC, 27265

DATE: 2/25/2025
 DWG.#: 7327017
 DRAWN BY: sluday jr
 SCALE: 1/2" = 1'-0"
 MASTER DRAWING
 SHEET NO. 5

ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR.
 ARCHITECT

423 FISCHER TRAIL
 ELIJAY, GEORGIA 30540

SEAL:



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FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION

DRAWN BY: RGV

CHKD BY: RGV

PROJECT TITLE:

LOCATION:
 3904 SEDGEBROOK
 ST. HIGH POINT, NC
 27265



Culver Franchising System, Inc.
 1240 Water Street
 Prairie du Sac, WI 53578
 608-643-7980
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SHEET TITLE:

H.V.A.C. SCHEDULES

PROJECT NO: 24063

RAMON VELAZQUEZ

5064 Roswell Road, Suite D-301
 Sandy Springs GA 30342 770.319.7400
 Project 23090.004 ©2025

M202

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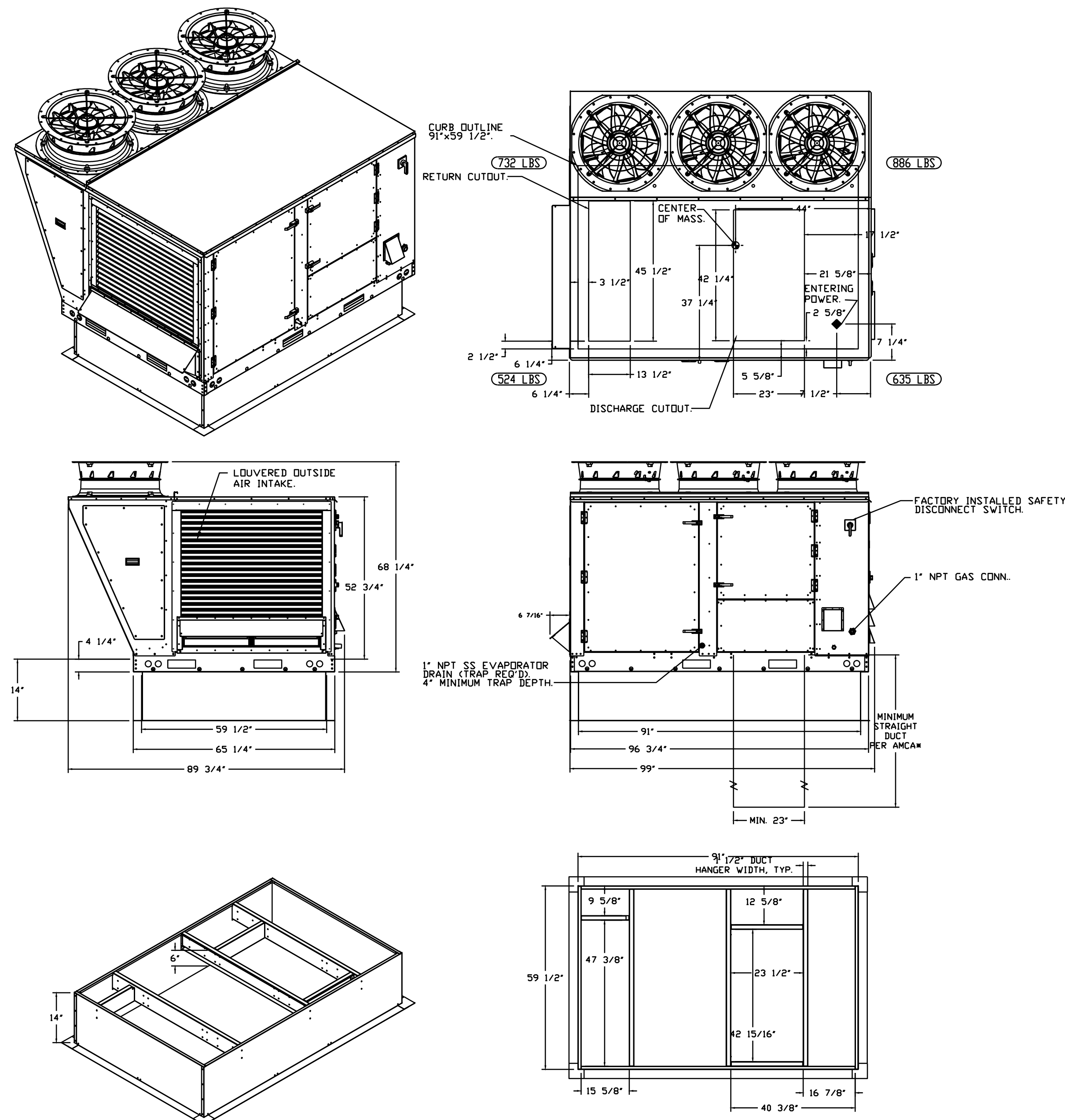
FAN #5 CAS-HVAC3-I.300-24MF-20T - HEATER (RTU-1 DINING)

NOTES:

- DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
- ⊞ DENOTES CORNER WEIGHT.
- ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.
- CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY.
- EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET.

*NOTE: INTEGRAL CO2 MONITORING AND CONTROL CAPABILITIES FOR ALL SPACE MOUNTED THERMOSTATS.

*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 23" x 39".



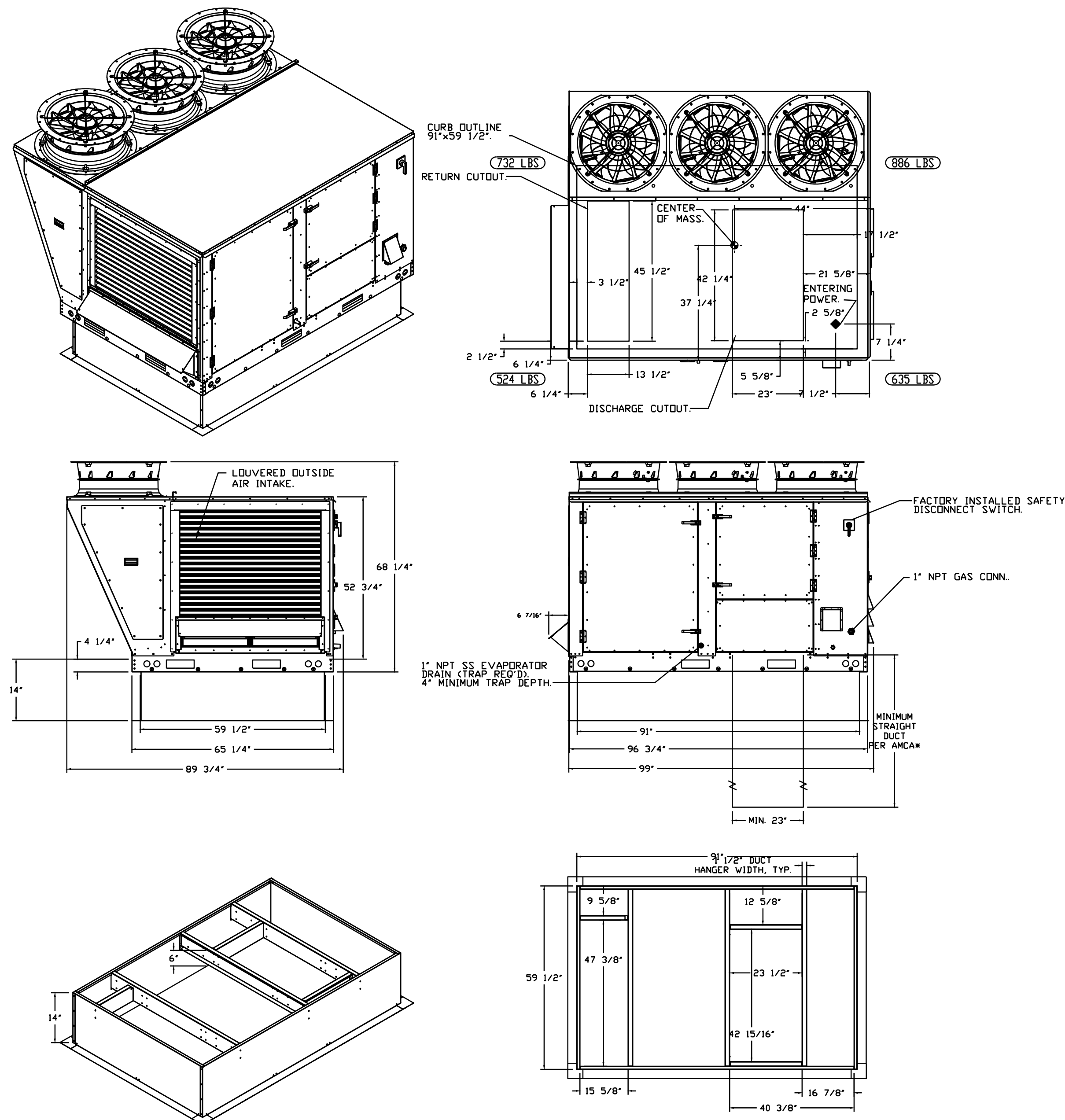
FAN #6 CAS-HVAC3-I.300-24MF-20T - HEATER (RTU-1 KITCHEN)

NOTES:

- DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
- ⊞ DENOTES CORNER WEIGHT.
- ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.
- CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY.
- EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET.

*NOTE: INTEGRAL CO2 MONITORING AND CONTROL CAPABILITIES FOR ALL SPACE MOUNTED THERMOSTATS.

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REVISIONS	
DESCRIPTION	DATE

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CULVERS HIGHPOINT NC REV1
HIGH POINT, NC, 27265

DATE: 2/25/2025
DWG.#: 7327017
DRAWN BY: sluddy jr
SCALE: 1/2" = 1'-0"
MASTER DRAWING
SHEET NO. 7

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CHKD BY: RGV

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LOCATION:
3904 SEDGEBROOK
ST. HIGH POINT, NC
27265



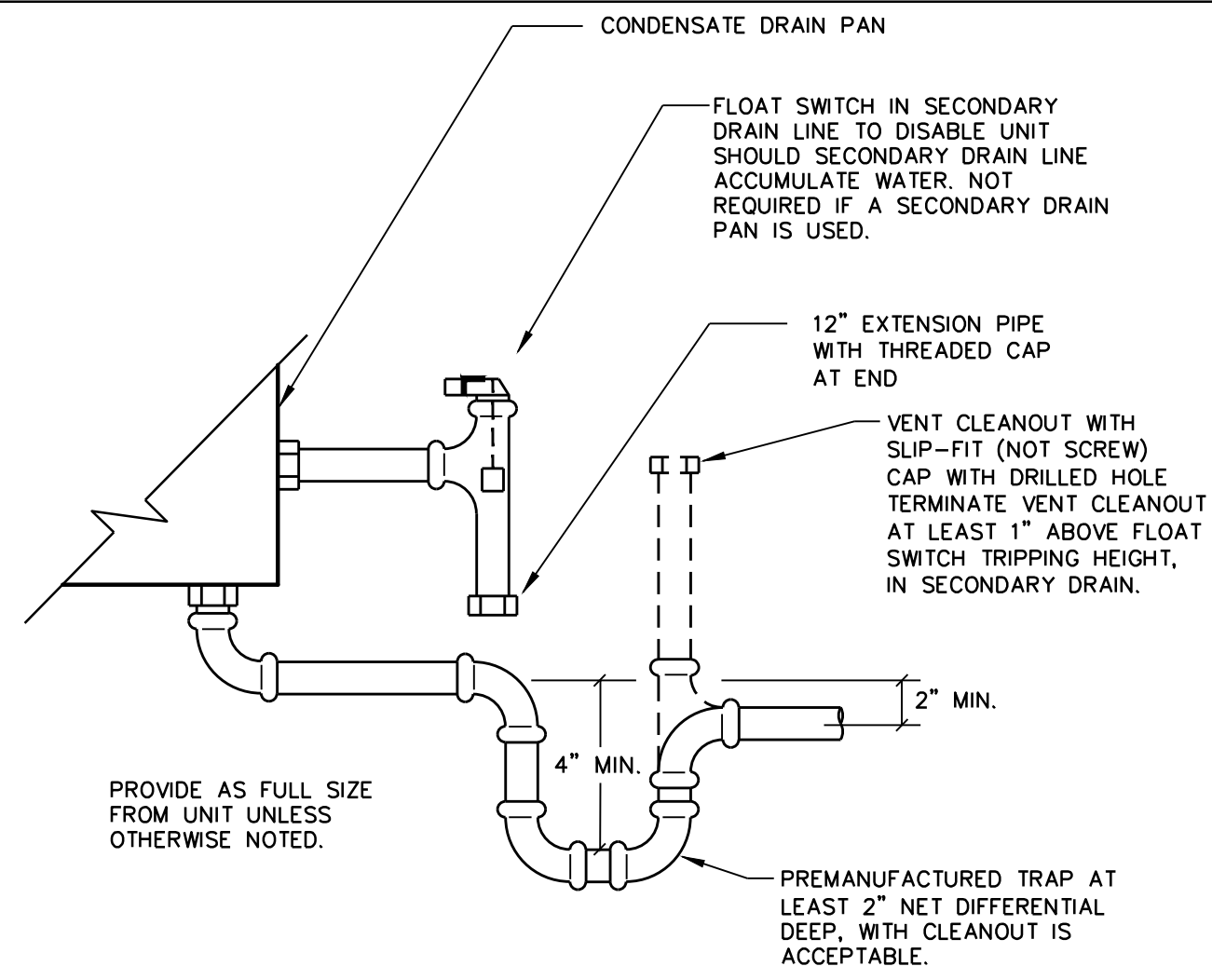
Culver's Franchising System, Inc.
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Prairie du Sac, WI 53578
608-643-7980
METRO M

SHEET TITLE:
H.V.A.C. SCHEDULES

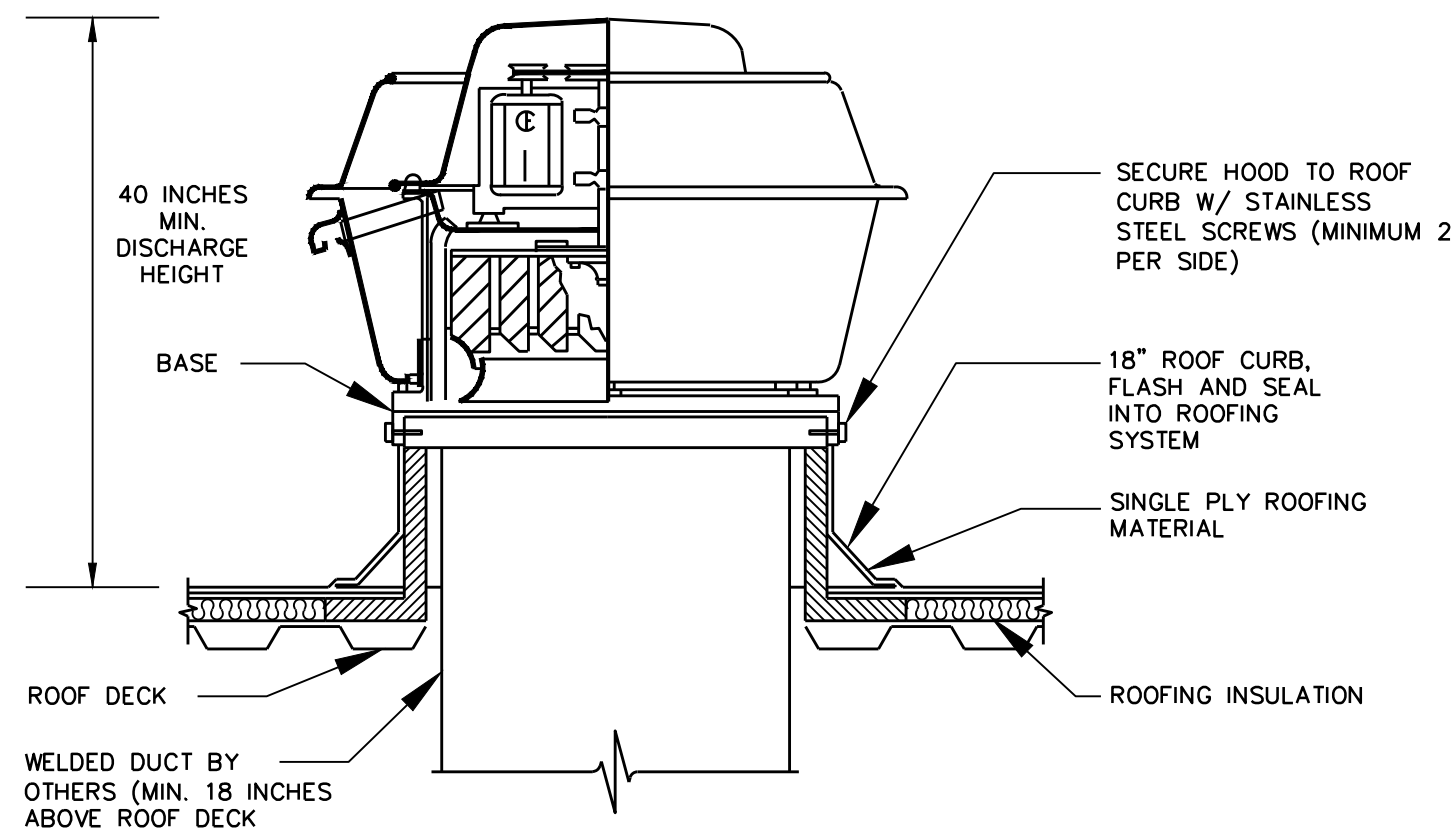
PROJECT NO: 24063

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Project 23090.004 ©2025

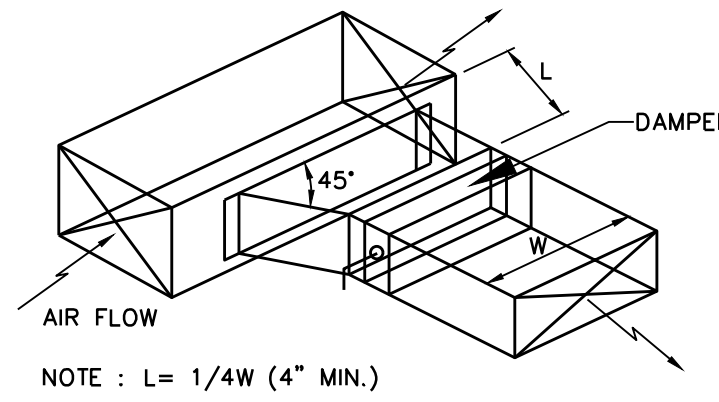
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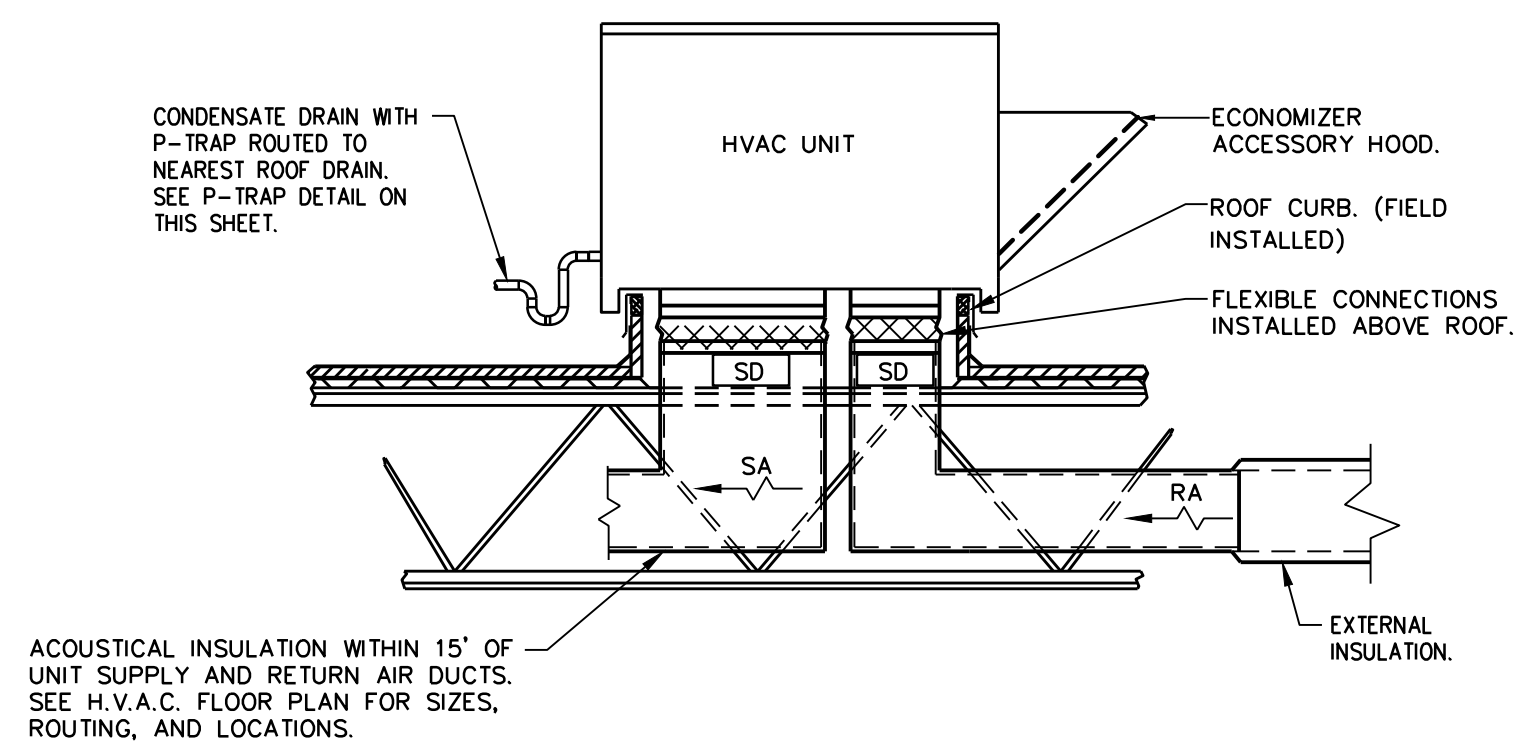
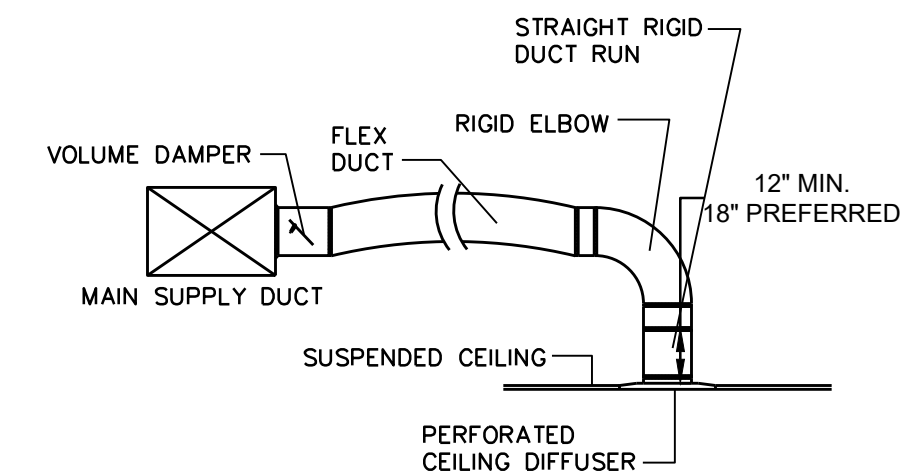
1 CONDENSATE TRAP DETAIL
M301 N.T.S.



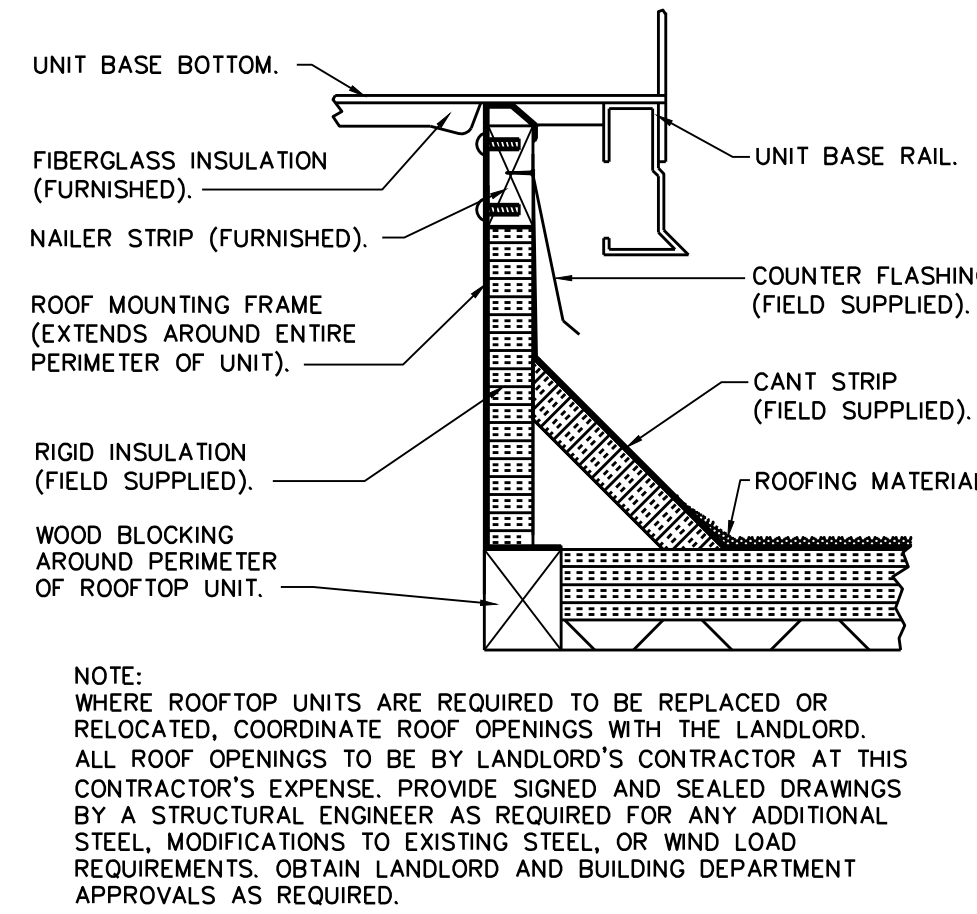
2 ROOF MTD. KITCHEN EXHAUST FAN DETAIL
M301 N.T.S.



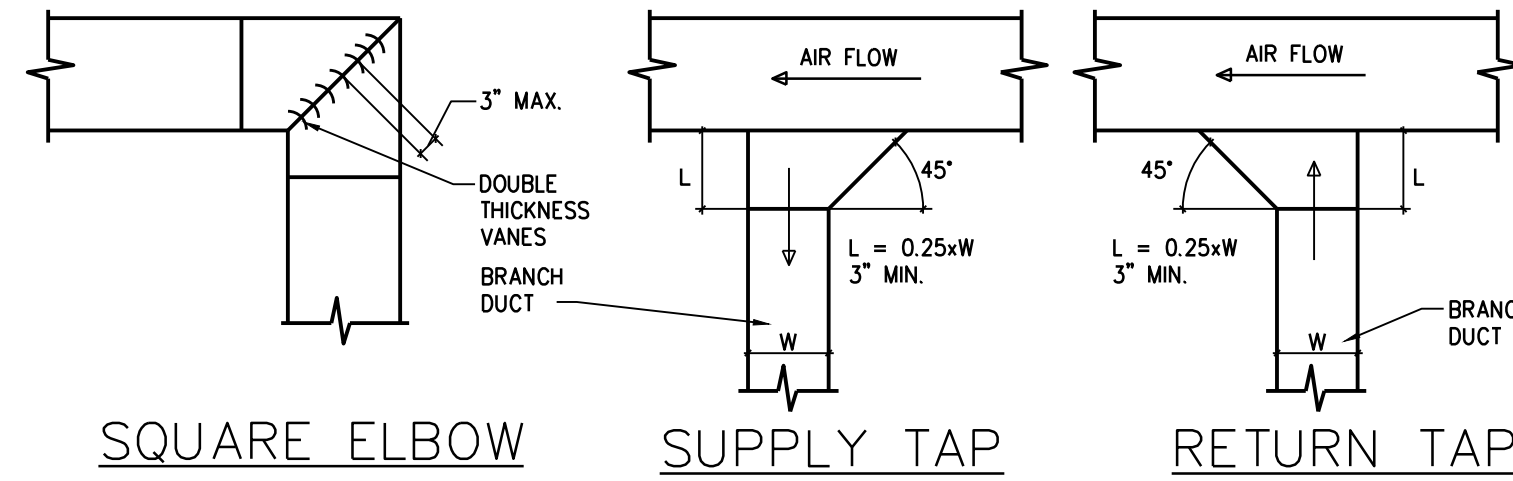
3 BRANCH DUCT TAKEOFF DETAILS
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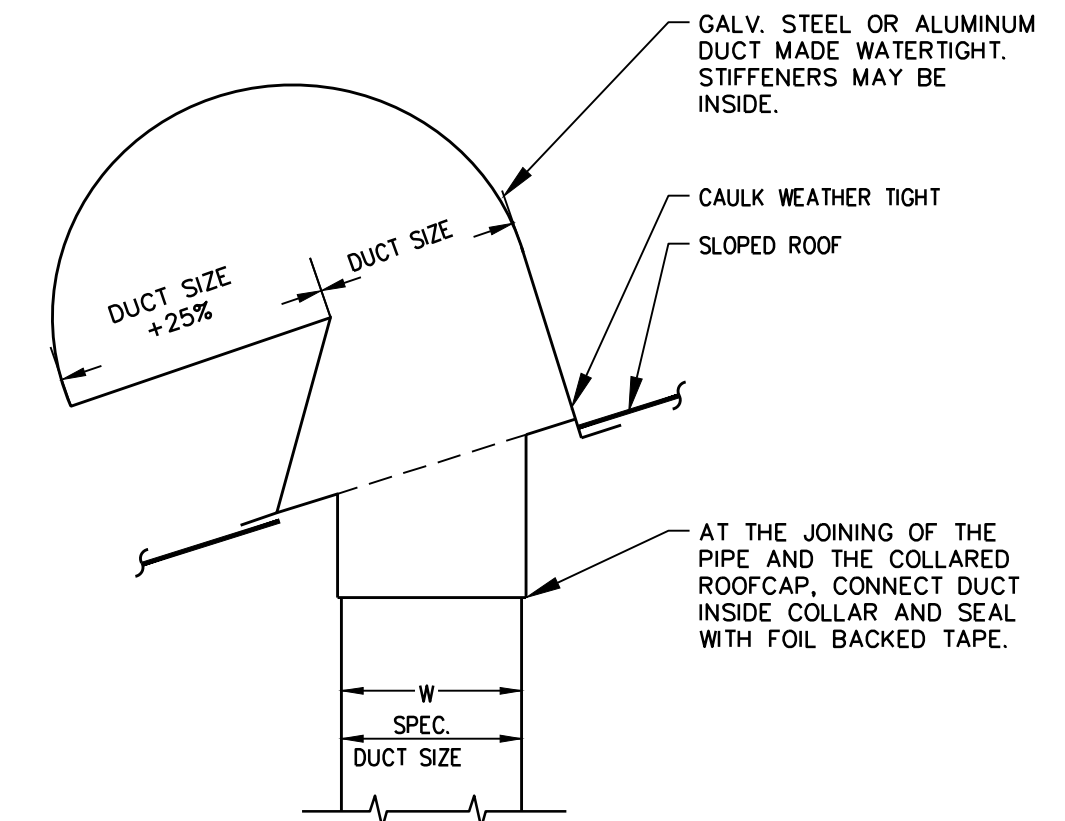
4 ROOFTOP UNIT DETAIL
M301 N.T.S.



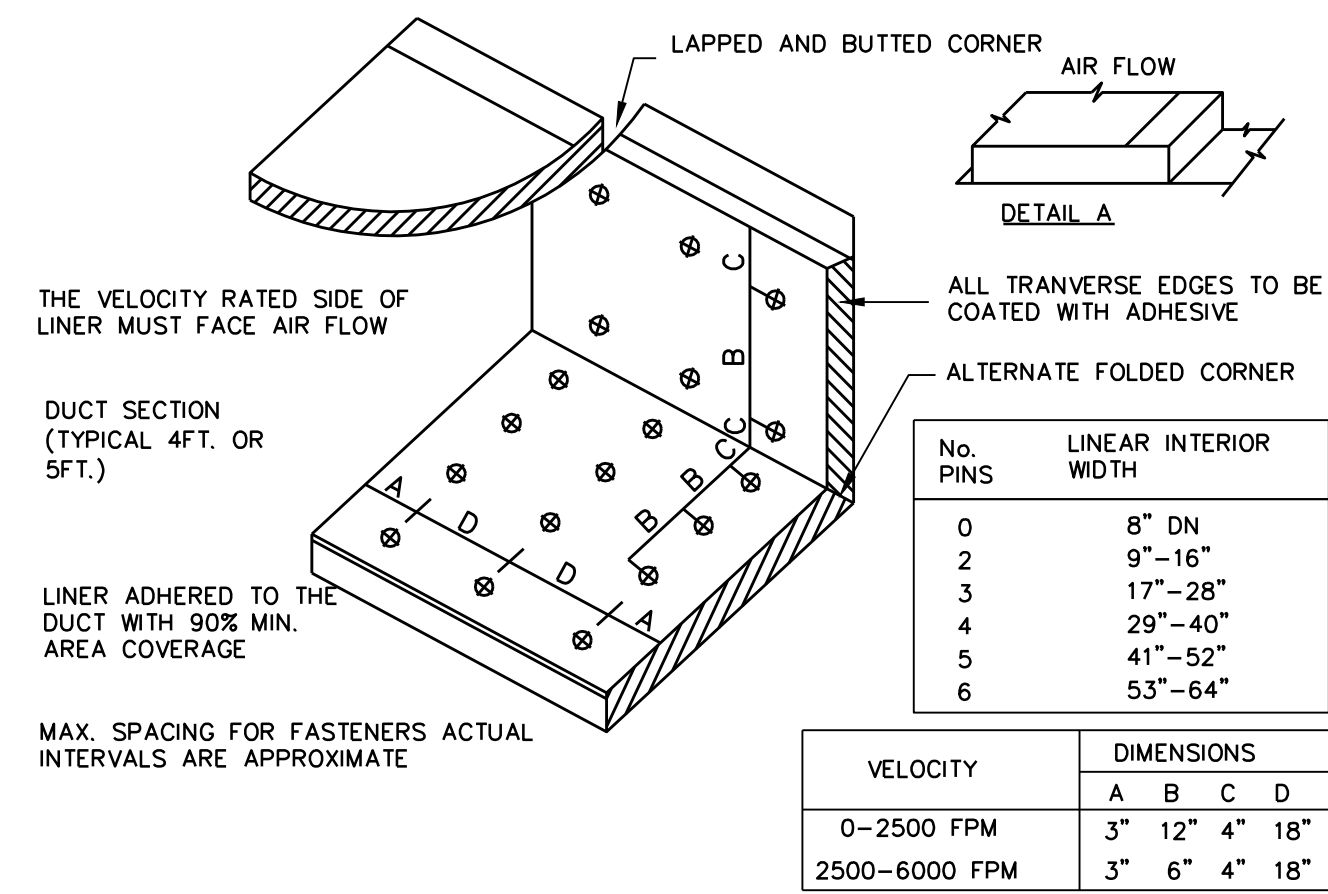
5 ROOF CURB DETAIL
M301 N.T.S.



6 DUCTWORK DETAILS
M301 N.T.S.



7 ROOF CAP DETAIL
M301 N.T.S.



8 DUCT LINER INSTALLATION DETAIL
M301 N.T.S.

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SEAL:
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CHKD BY: RGV
PROJECT TITLE:

LOCATION:
3904 SEDGEBROOK
ST. HIGH POINT, NC
27265

Culver's
FRANCHISING & BUSINESS DEVELOPMENT
Culver Franchising System, Inc.
1240 Water Street
Prairie du Sac, WI 53578
608-643-7980
METRO III

SHEET TITLE:

H.V.A.C. DETAILS

PROJECT NO: 24063

RAMON VELAZQUEZ
M301

5064 Roswell Road, Suite D-301
Sandy Springs GA 30342 770.319.7400
Project 23090.004 ©2025

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FOR QUESTIONS, CALL THE
 Florida National Accounts
 REGION 60
 PHONE: (407) 682-3100
 EMAIL: reg60@captiveaire.com

HOOD INFORMATION - JOB#7327017

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	END TO END	ROW		
1	GRIDDLE HOOD	3347 BD-2	CAPTIVEAIRE	5' 6"	600 DEG	I	HEAVY	273	1500				4'	12"	1500	1910	-1.412"	430 SS WHERE EXPOSED	ALONE	ALONE
2	FRYER HOOD	3347 BD-2	CAPTIVEAIRE	7' 0"	600 DEG	I	HEAVY	214	1500				4'	12"	1500	1910	-1.090"	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	TYPE	FILTER(S)			LIGHT(S)			UTILITY CABINET(S)			FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
			QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE		
1	GRIDDLE HOOD	CAPTRATE SOLO FILTER	4	16"	16"	85% SEE FILTER SPEC	4	L55 SERIES E26	NO			YES	244 LBS
2	FRYER HOOD	CAPTRATE SOLO FILTER	5	16"	16"	85% SEE FILTER SPEC	4	L55 SERIES E26	NO			YES	290 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	GRIDDLE HOOD	FIELD WRAPPER 14.00" HIGH FRONT, LEFT, RIGHT.
		RIGHT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.
		LEFT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.
		SENSDR-CV.
2	FRYER HOOD	FIELD WRAPPER 14.00" HIGH FRONT, LEFT, RIGHT.
		RIGHT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.
		LEFT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.
		SENSDR-CV.

WALL-MOUNT UTILITY CABINET

HOOD NO	LOCATION	SIZE	UTILITY CABINET(S)			WEIGHT
			FIRE SYSTEM	ELECTRICAL	SWITCHES	
1	WALL MNT	12"x48"x24"	TANK FS	4.0/4.0/4.0		400.00 LBS

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

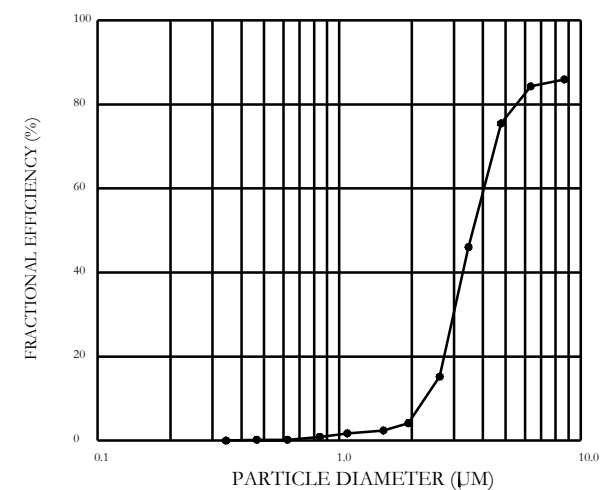
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

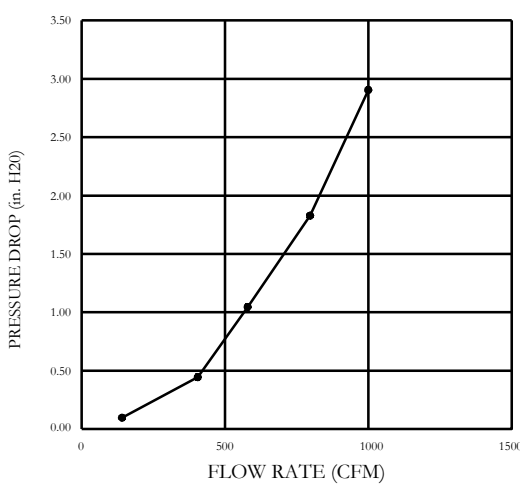
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

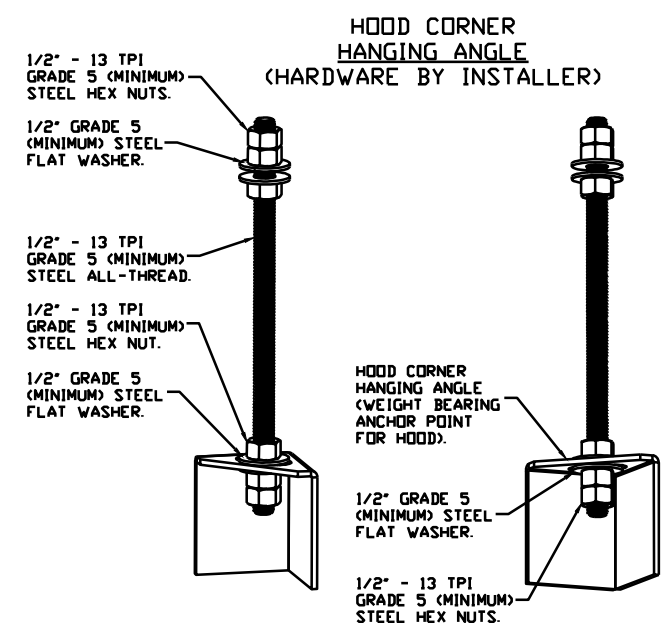
EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
 NFPA #96
 NSF STANDARD #2
 UL STANDARD #1046
 INT. MECH. CODE (IMC)
 ULC-S649.



ASSEMBLY INSTRUCTIONS

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 DOUBLE 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.

REVISIONS

DESCRIPTION	DATE

CAPTIVE
 Florida National Accounts
 239 N Hunt Club Blvd., STE 201, Longwood, FL 32779 PHONE: (407) 682-3100 FAX: 9192275913 EMAIL: reg60@captiveaire.com

CULVERS HIGHPOINT NC REV1
 HIGH POINT, NC, 27265

DATE: 2/25/2025
DWG.#: 7327017
DRAWN BY: sluddy jr
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
 1

ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR.
 ARCHITECT

423 FISCHER TRAIL
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SEAL:



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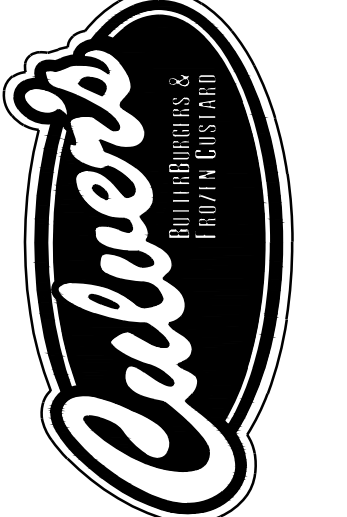
FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION

DRAWN BY: RGV
 CHKD BY: RGV
PROJECT TITLE:

LOCATION:
 3904 SEDGEBROOK ST.
 HIGH POINT, NC
 27265



Culvers Franchising Systems, Inc.
 1240 Water Street
 Prairie du Sac, WI 53578
 608-643-7880
 METRO M

SHEET TITLE:

H.V.A.C. HOOD, FAN & FIRE SUPPRESSION

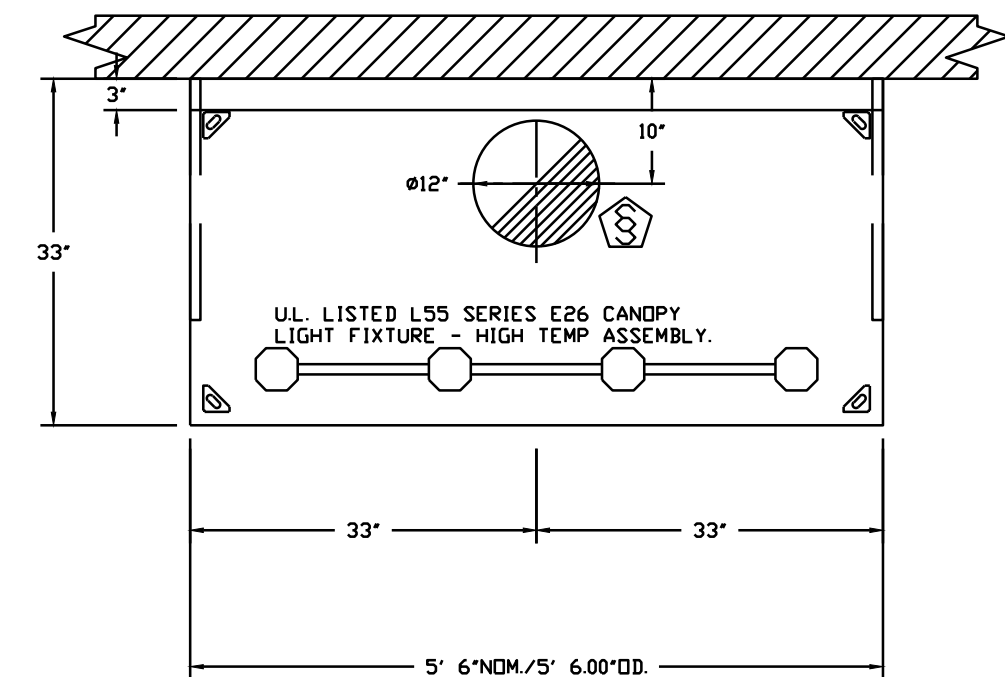
PROJECT NO: 24063

RAMON VELAZQUEZ

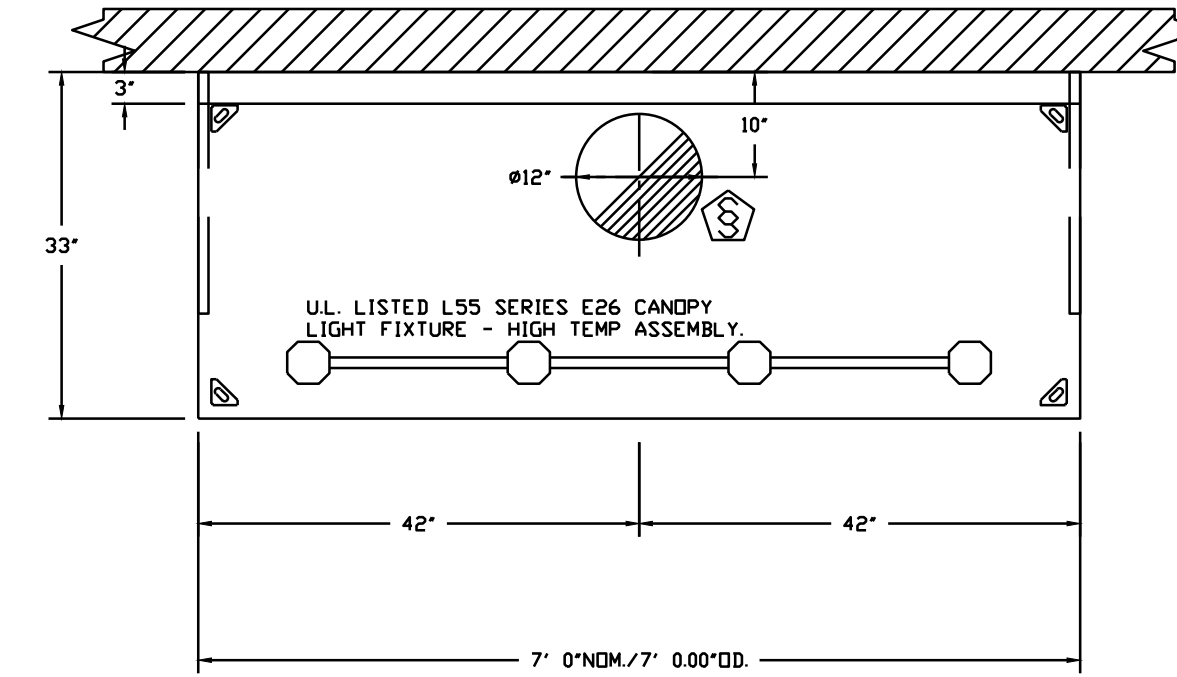
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M401

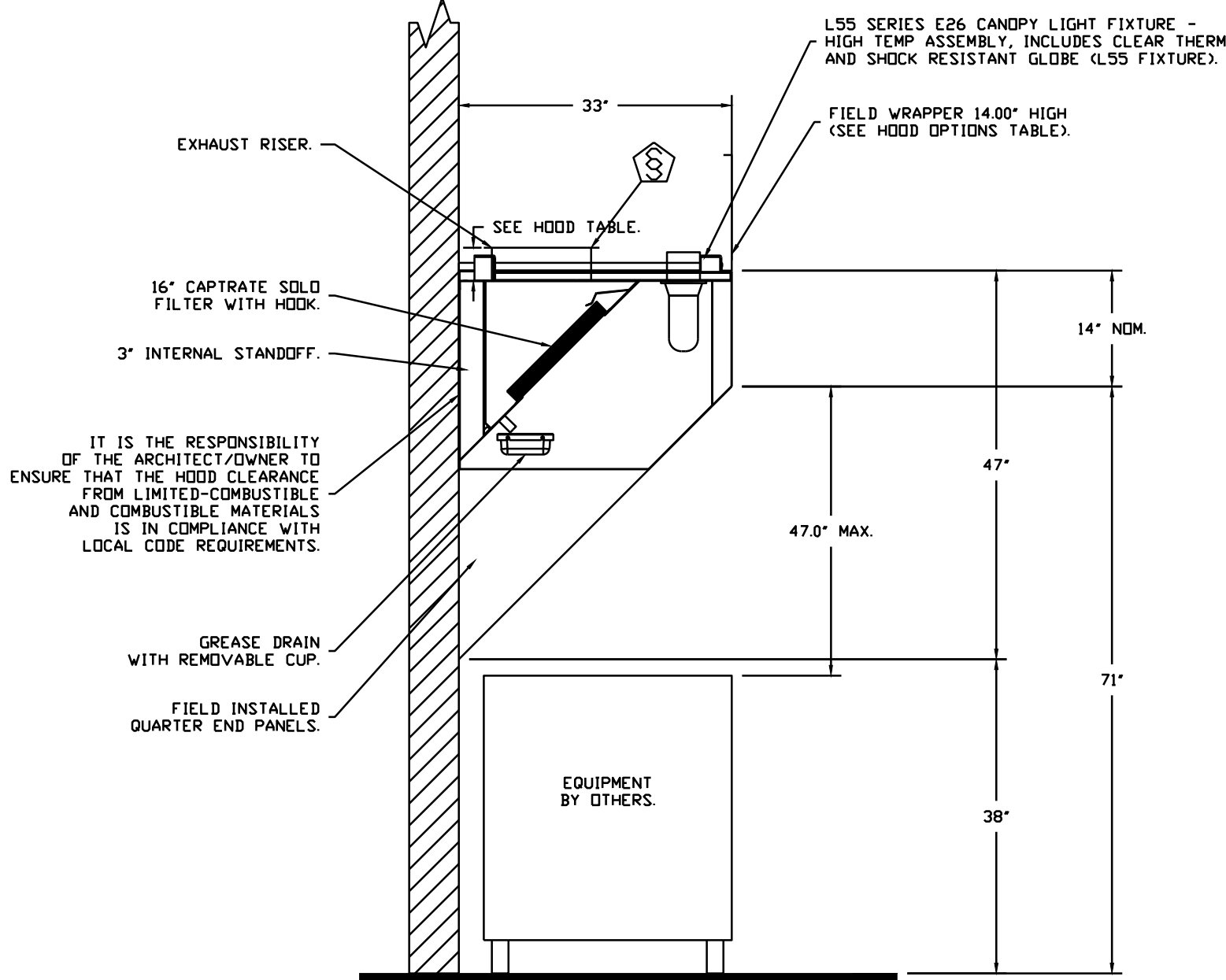
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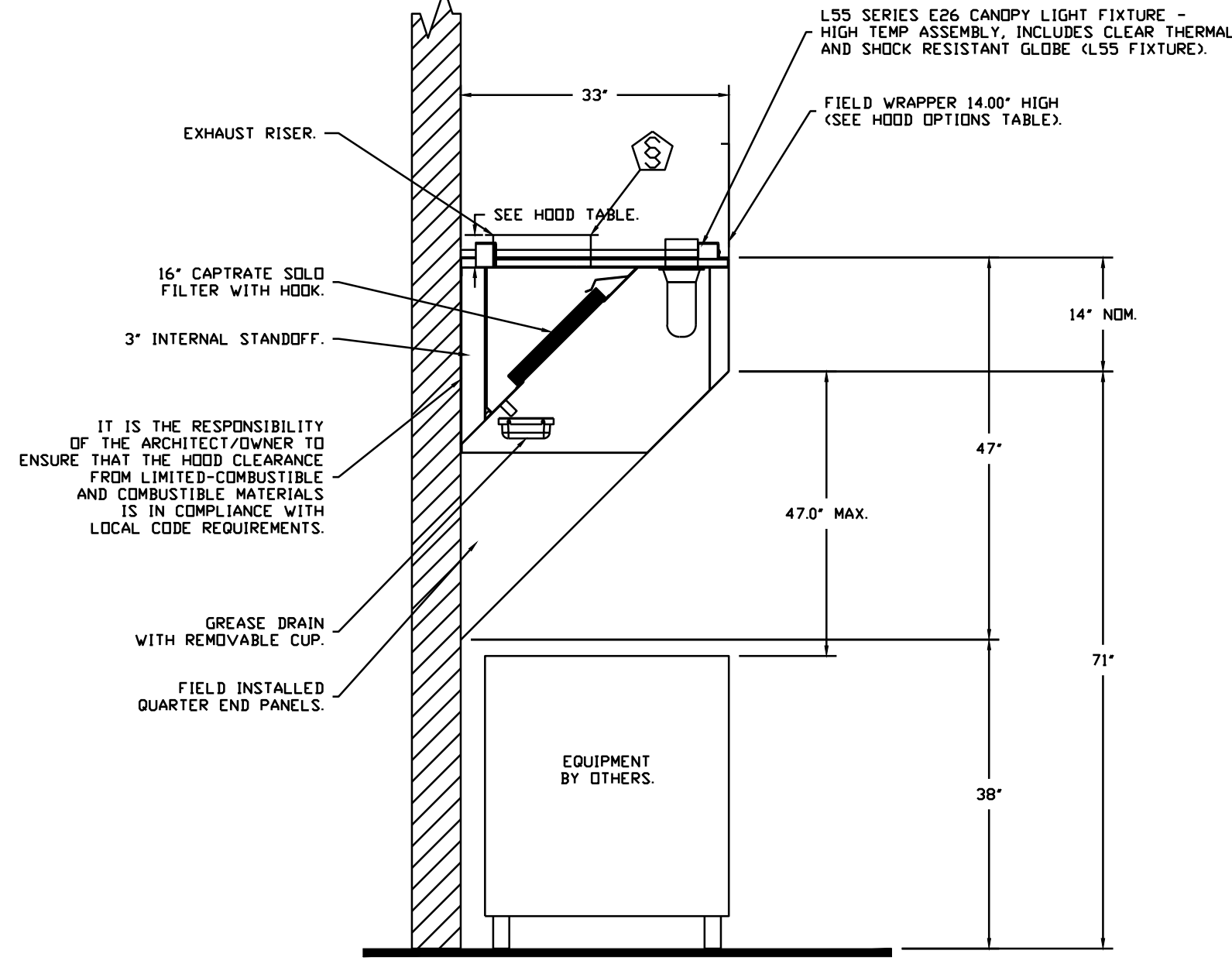
PLAN VIEW - HOOD #1 (GRIDDLE HOOD)
5' 6.00" LONG 3347BD-2



PLAN VIEW - HOOD #2 (FRYER HOOD)
7' 0.00" LONG 3347BD-2

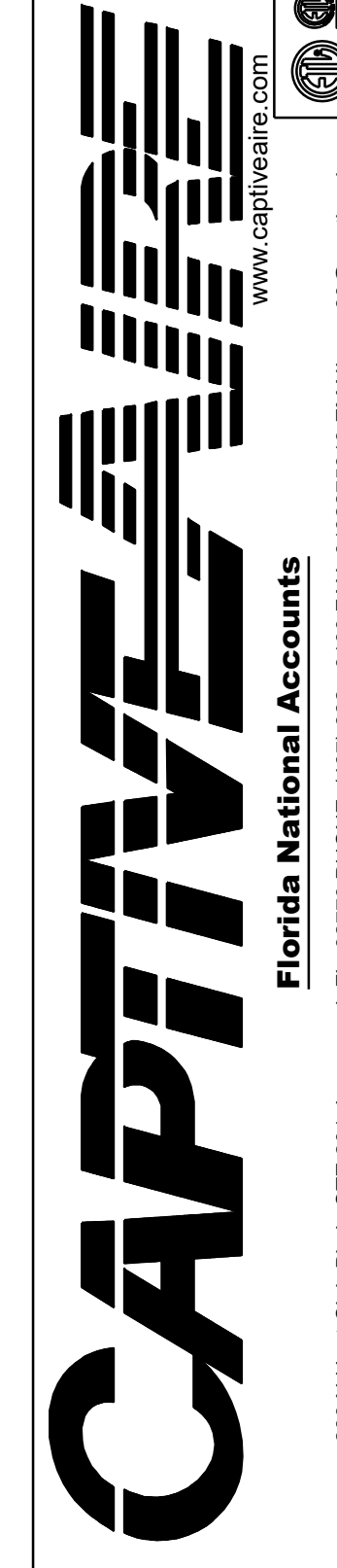


SECTION VIEW - MODEL 3347BD-2
HOOD - #1 (GRIDDLE HOOD)



SECTION VIEW - MODEL 3347BD-2
HOOD - #2 (FRYER HOOD)

REVISIONS	
DESCRIPTION	DATE



CULVERS HIGHPOINT NC REV1
HIGH POINT, NC, 27265

DATE: 2/25/2025
DWG.#: 7327017
DRAWN BY: sluddy jr
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 2

ARCHITECT OF RECORD:
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FOR CONSTRUCTION

ISSUES / REVISIONS	
DATE	DESCRIPTION

DRAWN BY: RGV
CHKD BY: RGV

PROJECT TITLE:

LOCATION:
3904 SEDGEBROOK
ST. HIGH POINT, NC
27265



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METRO M

SHEET TITLE:

H.V.A.C. HOOD, FAN & FIRE SUPPRESSION

PROJECT NO: 24063

M402

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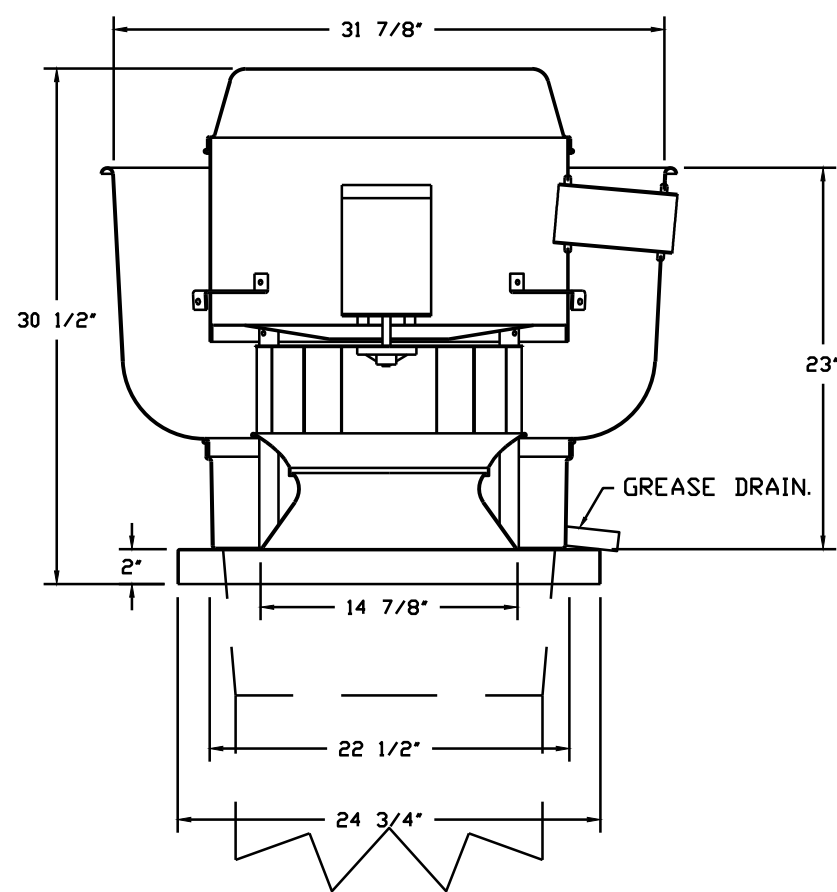
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EXHAUST FAN INFORMATION - JOB#7327017

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL.	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SDNES
1	PRV-1 RESTROOM	1	DR12HFA	CAPTIVEAIRE	450	0.500	1466	TEAD-ECM	0.250	0.1350	1	115	2.9		50	8.2
2	PRV-2 GRIDDLE	1	DUB5HFA	CAPTIVEAIRE	1500	1.800	1538	TEAD-ECM	1.000	0.6990	1	115	11.6	475 FPM	94	14.8
3	PRV-3 FRYER	1	DUB5HFA	CAPTIVEAIRE	1500	1.250	1348	TEAD-ECM	1.000	0.4700	1	115	11.6	475 FPM	94	11.3
4	EF-1	1	CFA 100CA	CAPTIVEAIRE	75	0.125	493	GENERALPURPDISC	0.116	0.0510	1	115	1.1		24	N/A

FANS #2 (PRV-2 GRIDDLE), #3 (PRV-3 FRYER) - DUB5HFA EXHAUST FAN



FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- 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.

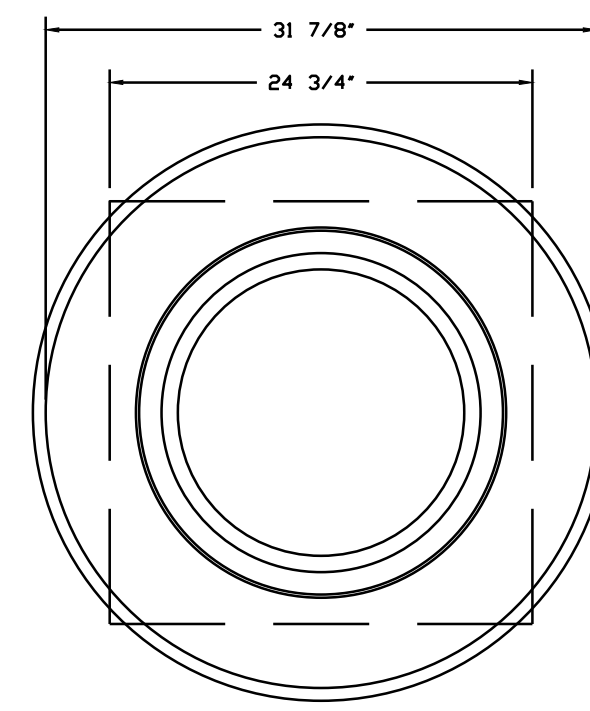
NORMAL TEMPERATURE TEST:
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DEGRADATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

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.

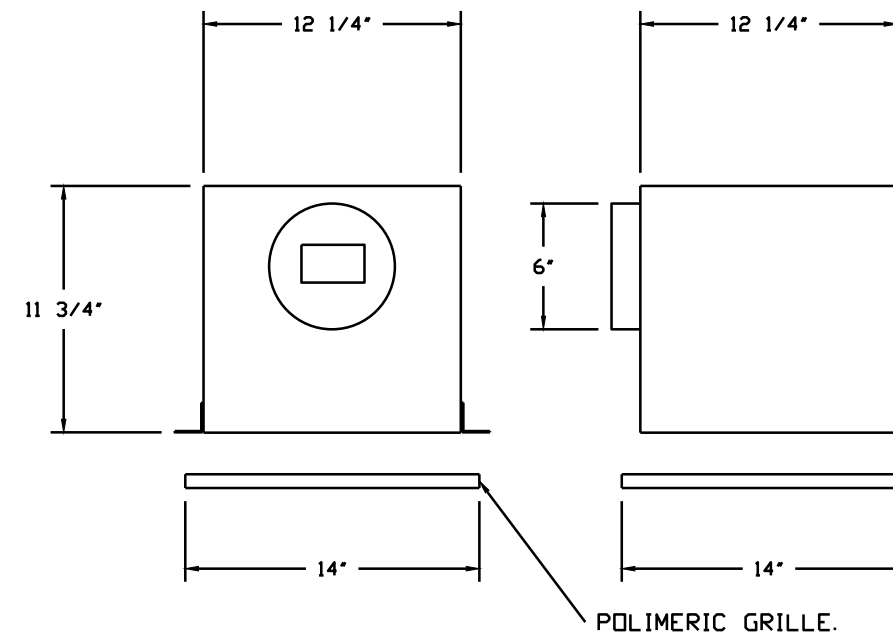
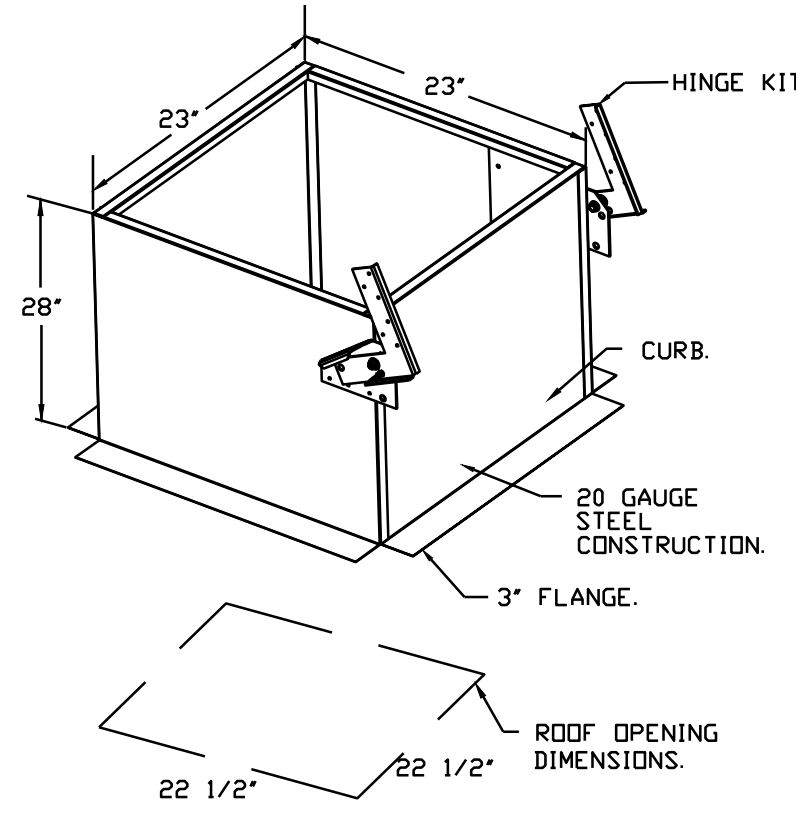
OPTIONS:

- GREASE BOX
- FAN BASE CERAMIC SEAL - DU/DRO5HFA
- INSTALLED AT PLANT - FOR GREASE DUCTS
- ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL.
- RTG- (TELECO MOTOR), CCW ROTATION.
- 2 YEAR PARTS WARRANTY.

TOP VIEW



FAN #4 CFA 100CA - EXHAUST FAN (EF-1)



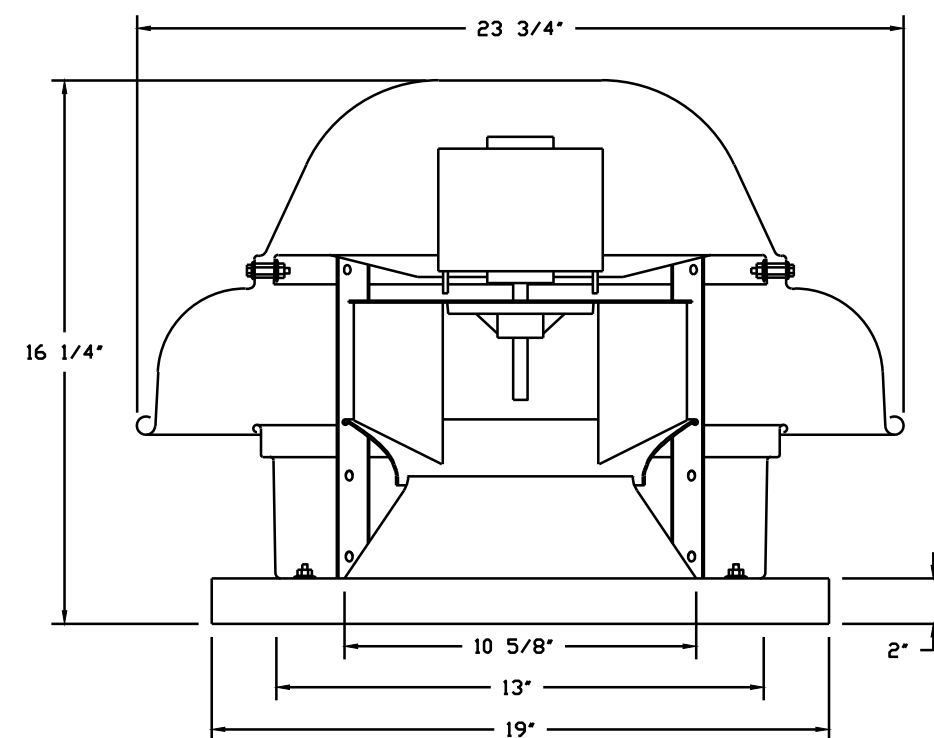
FEATURES:

- 1/2" ACOUSTIC HOUSING INSULATION.
- 20 GA. GALVANIZED STEEL HOUSING.
- PLUG TYPE DISCONNECT.
- BUILD IN AUTOMATIC BACKDRAFT DAMPER.
- AMCA SOUND & AIR CERTIFIED.
- UL LISTED.
- CAN BE INSTALLED IN CEILING OR WALL.
- 8 POSITION MOUNTING BRACKETS.

OPTIONS:

- FAN CONTROL - 3 AMP WHITE SPEED CONTROL FOR CFA CEILING FAN.
- 2 YEAR PARTS WARRANTY.

FAN #1 DR12HFA - EXHAUST FAN (PRV-1 RESTROOM)



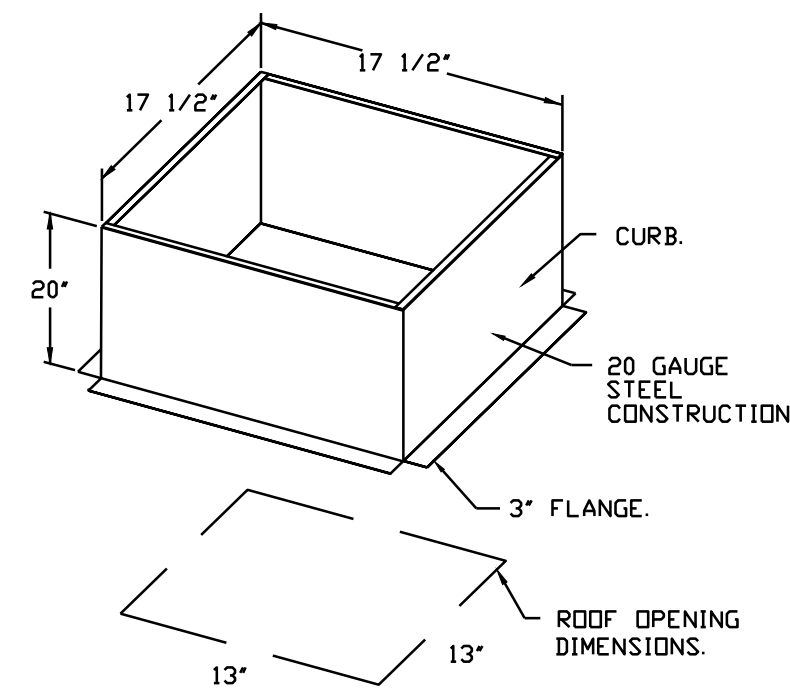
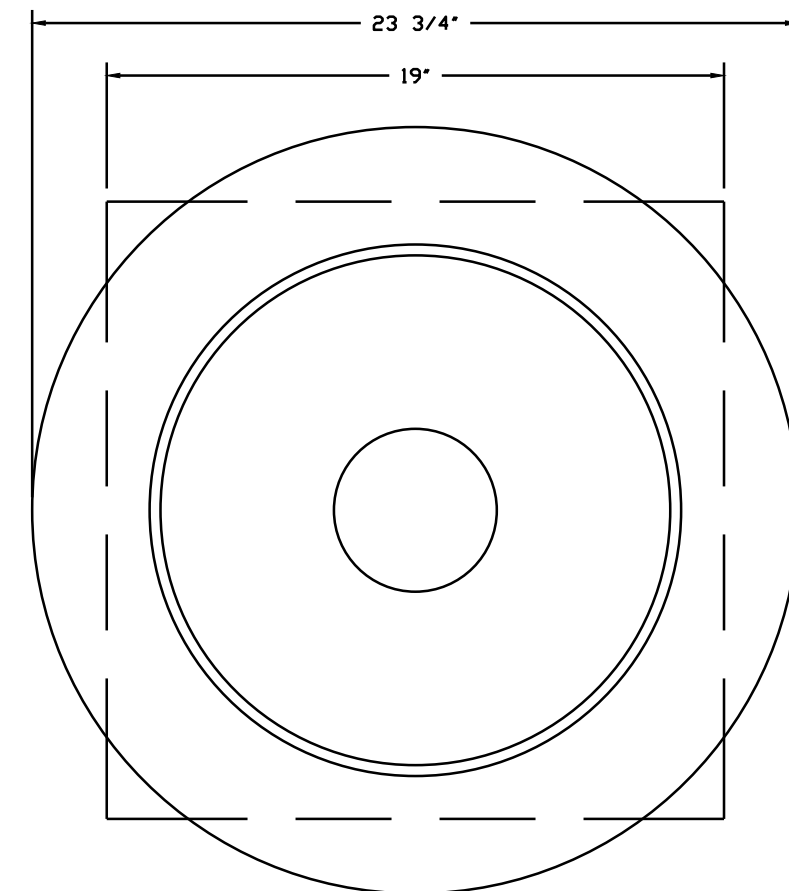
FEATURES:

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

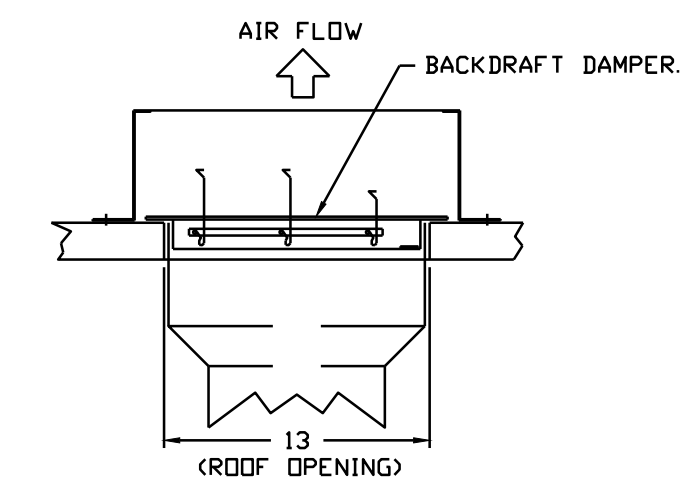
OPTIONS:

- 1 1/2" BDD DAMPER.
- ECM WIRING PACKAGE - EXHAUST - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL.
- MSC- (TELECO), CCW ROTATION.
- 2 YEAR PARTS WARRANTY.

TOP VIEW



BACKDRAFT DAMPER INSTALLATION



REVISIONS

NO.	DESCRIPTION	DATE

CAPTIVE AIR
Florida National Accounts
www.captiveaire.com
reg00@captiveaire.com
9192275913 EMAIL: reg00@captiveaire.com

CULVERS HIGHPOINT NC REV1
HIGH POINT, NC, 27265

DATE: 2/25/2025

DWG#: 7327017

DRAWN BY: sluddy jr

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

MASTER DRAWING

SHEET NO. 4

ARCHITECT OF RECORD:
THOMAS E. MORGAN, JR.
ARCHITECT
423 FISCHER TRAIL
ELIJAH, GEORGIA 30540

SEAL:

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www.mrpdesign.com

FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION

DRAWN BY: RGV
CHKD BY: RGV

PROJECT TITLE:

LOCATION: 3904 SEDGEBROOK ST. HIGH POINT, NC 27265



Culver Franchising System, Inc.
1240 Water Street
Prairie du Sac, WI 53578
608-643-7980
METRO M

SHEET TITLE:

H.V.A.C. HOOD, FAN & FIRE SUPPRESSION

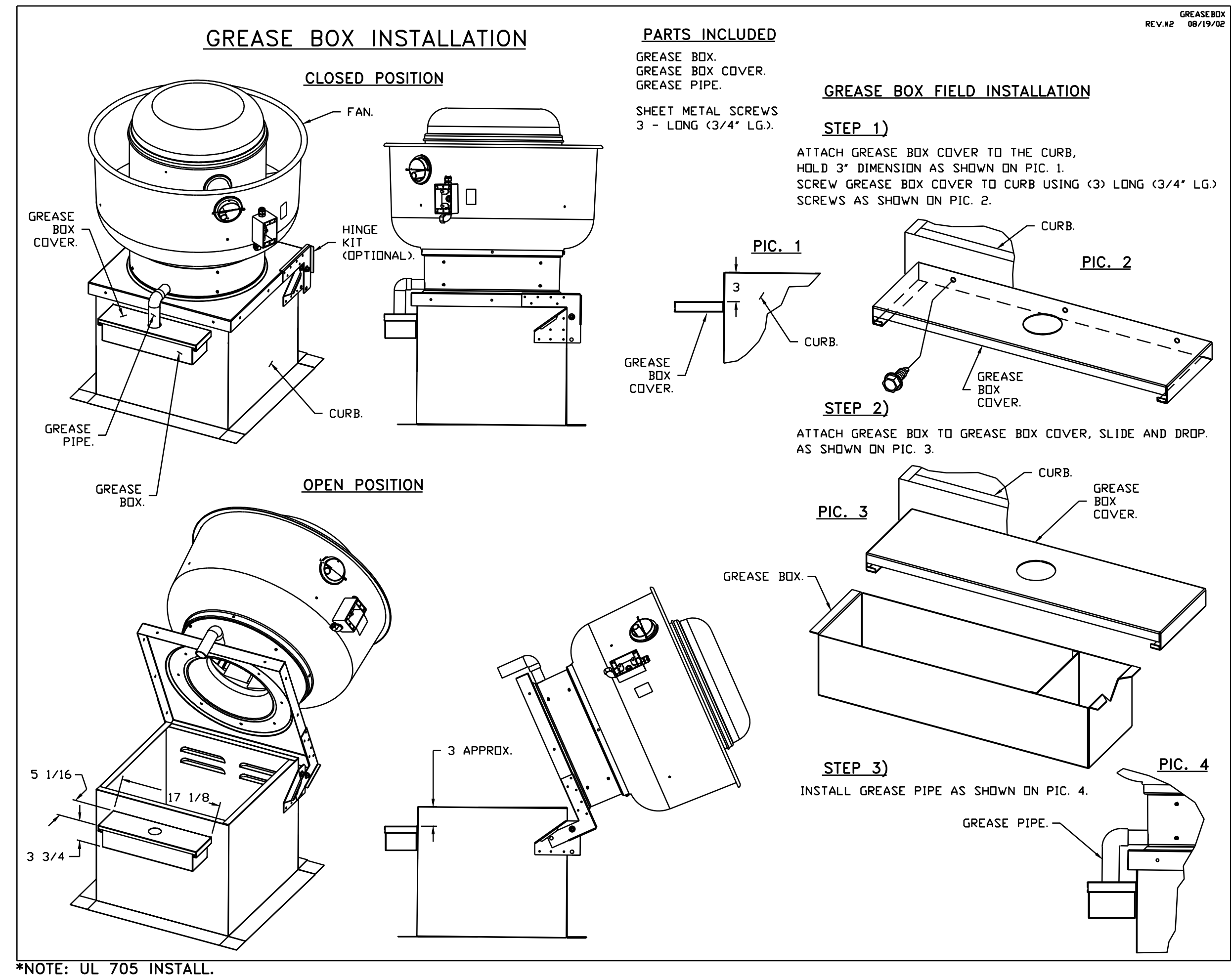
PROJECT NO: 24063

RAMON VELAZQUEZ

M403

5064 Roswell Road, Suite D-301
Sandy Springs GA 30342 770.319.7400
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REVISIONS	
DESCRIPTION	DATE

CAPITIVE

Florida National Accounts

239 N Hunt Club Blvd., STE 201, Longwood, FL 32779 PHONE: (407) 682-3100 FAX: 9192275913 EMAIL: reg00@capitive.com

www.capitive.com

CULVERS HIGHPOINT NC REV1
HIGH POINT, NC, 27265

DATE: 2/25/2025
DWG.#: 7327017
DRAWN BY: sluddy jr
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 6

ARCHITECT OF RECORD:
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ARCHITECT

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ELIJAH, GEORGIA 30540

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NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 038960
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FOR CONSTRUCTION

ISSUES / REVISIONS:
DATE DESCRIPTION

DRAWN BY: RGV
CHKD BY: RGV
PROJECT TITLE:

LOCATION:
3904 SEDGEBROOK
ST. HIGH POINT, NC
27265

Culverb
Business & Events Division

Culver Franchising System, Inc.
1240 Water Street
Prairie du Sac, WI 53578
608-643-7800
METRO M

SHEET TITLE:
H.V.A.C. HOOD, FAN & FIRE SUPPRESSION

PROJECT NO: 24063

M404

RAMON VELAZQUEZ

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Sandy Springs GA 30342 770.319.7400
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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.

REVISIONS	
DESCRIPTION	DATE:
△	
△	
△	
△	



Florida National Accounts
www.captiveaire.com

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CULVERS HIGHPOINT NC REV1 HIGH POINT, NC, 27265
DATE: 5/8/2025
DWG.#: 7327017
DRAWN BY: sluddy jr
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 16