



W.W. Gay
 515 SE 11th Place
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Project: 8550163 Palatka Army Reserve

Submittal #1.1 - Captive Air Hood and Fans Per M-605

Revision	1	Submittal Manager	Rachel Roper (W.W. Gay Mechanical Contractor, Inc.)
Status	Open	Date Created	Jan 5, 2024
Issue Date	Jan 5, 2024	Spec Section	
Responsible Contractor		Received From	
Received Date		Submit By	
Final Due Date	Feb 2, 2024	Lead Time	
		Cost Code	
Location		Type	Product Data
Approvers	Gary Pate		
Ball in Court	Gary Pate		
Distribution			
Description	Product Data		

Submittal Workflow

Name	Sent Date	Due Date	Returned Date	Response	Attachments
General Information					
Attachments					
Rachel Roper		Jan 19, 2024	Jan 5, 2024	Submitted	D_USArmyReserveCenter_12-19-2023_3.pdf (Current)
Comment	Per CaptiveAire Vendor: Please see attached revised drawings. I have outlined in red the single phase input information for the fans that are 3 phase. On these units the VFD will take a single phase 208v input and run the 3 phase motor in our unit. Also, the make up air fans I have added all options with the exception of the baked enamel. Our MUA units are constructed of G90 galvanized and this is widely accepted especially in FL without any coating or painted option				
Gary Pate	Jan 5, 2024	Feb 2, 2024		Pending	

FOR QUESTIONS, CALL THE
Central Florida Office
REGIDN 66
PHONE: (407) 682 - 0317
EMAIL: reg66@econair.com

PATENT NUMBERS
AC-PSP (UNITED STATES) - US PATENT 7963830 B2.
AC-PSP WALL (CANADA) - CA PATENT 2820509.
AC-PSP ISLAND (CANADA) - CA PATENT 2920330.

HOOD INFORMATION - JOB#6119534

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISERS(S)				TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG			
										WIDTH	LENG	HEIGHT	DIA			CFM	VEL	SP	END TO END
1	KH-1 (Grease Hood)	5424 EX-2-PSP-FS	ECON-AIR	8' 9"	600 DEG	I	HEAVY	200	1750	9'	17'	4'	1750	1647	-0.442'	1650	430 SS WHERE EXPOSED	ALONE	ALONE
2	KH-2 (Hot Wells)	4824 ES-VHB-G-PSP-F-ND	ECON-AIR	8' 6"	700 DEG	II	N/A	150	1275	12'	16'	4'	1275	956	-0.100'	1200	430 SS 100%	ALONE	ALONE
3	KH-3 (Dish)	4824 ES-VHB-G-ND	ECON-AIR	4' 0"	700 DEG	II	N/A	112	450	7'	7'	4'	450	1322	-0.079'	0	430 SS 100%	ALONE	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	QTY	TYPE		TYPE	SIZE				MODEL #	QUANTITY				
1	KH-1 (Grease Hood)	SS BAFFLE WITH HANDLES	6	16"	16"	30%	3	L55 SERIES E26	ND									YES	530 LBS
2	KH-2 (Hot Wells)						3	L55 SERIES E26	ND									NO	364 LBS
3	KH-3 (Dish)						0											NO	204 LBS

HOOD OPTIONS

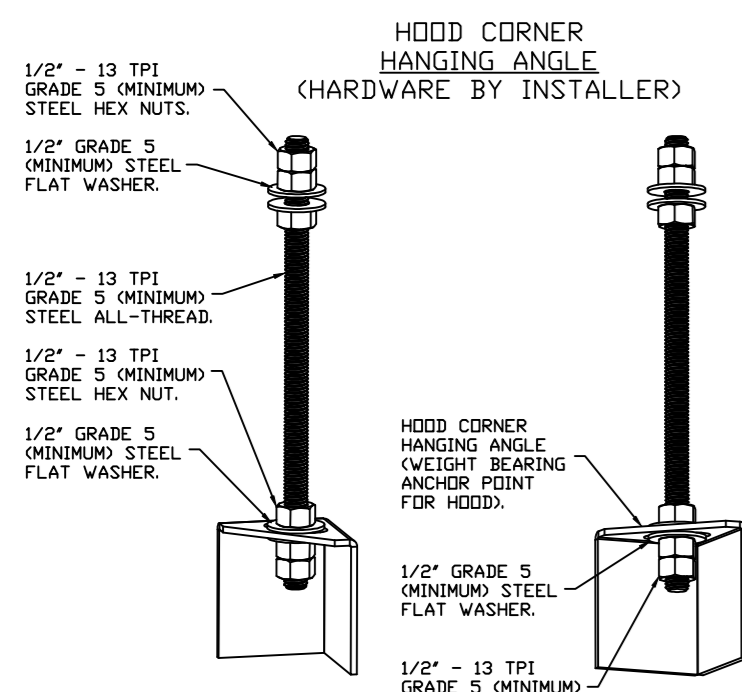
HOOD NO	TAG	OPTION
1	KH-1 (Grease Hood)	FIELD WRAPPER 18.00" HIGH FRONT, RIGHT. BACKSPLASH 122.00" HIGH X 142.00" LONG 430 SS VERTICAL. LEFT SIDESPLASH 122.00" HIGH X 72.00" LONG 430 SS VERTICAL. LEFT END STANDOFF (FINISHED) 1' WIDE 54" LONG INSULATED. RISER SENSOR INSTALL 6IN PLEN. RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
2	KH-2 (Hot Wells)	FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT. BACKSPLASH 80.00" HIGH X 102.00" LONG 430 SS VERTICAL. FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT.
3	KH-3 (Dish)	BACKSPLASH 80.00" HIGH X 48.00" LONG 430 SS VERTICAL.

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)			
							WIDTH	LENG	DIA	CFM
1	KH-1 (Grease Hood)	Front	106'	14'	6'	MUA	12"	16"	502	0.174'
		Right	68'	14'	6'	MUA	10"	16"	645	0.270'
2	KH-2 (Hot Wells)	Front	102'	14'	6'	MUA	10"	16"	600	0.291'
						MUA	10"	16"	600	0.291'

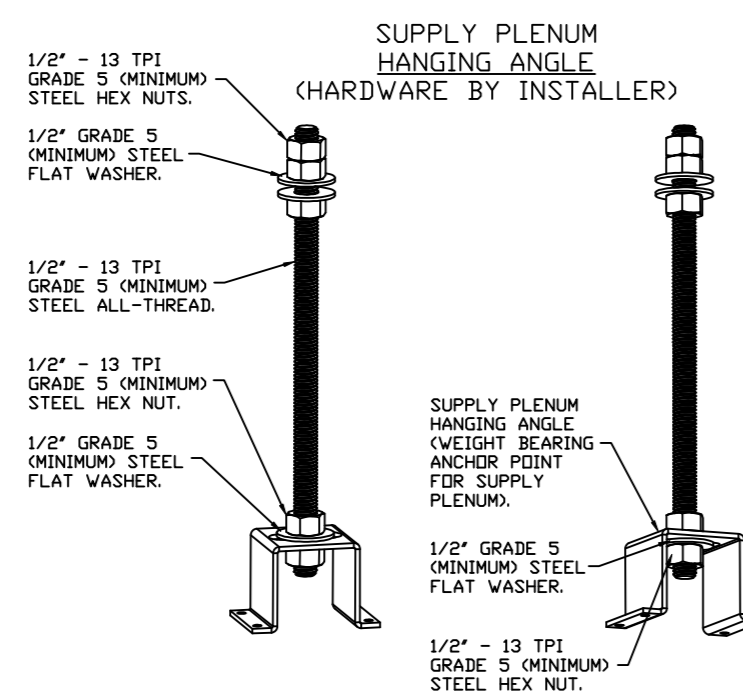
WALL-MOUNT UTILITY CABINET

HOOD NO	LOCATION	SIZE	UTILITY CABINET(S)				WEIGHT
			FIRE SYSTEM	ELECTRICAL	SWITCHES		
1	WALL MNT	12"x48"x24"	TANK FS	4.0	SC-31110MA	1 LIGHT 1 FAN	240.00 LBS



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 HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



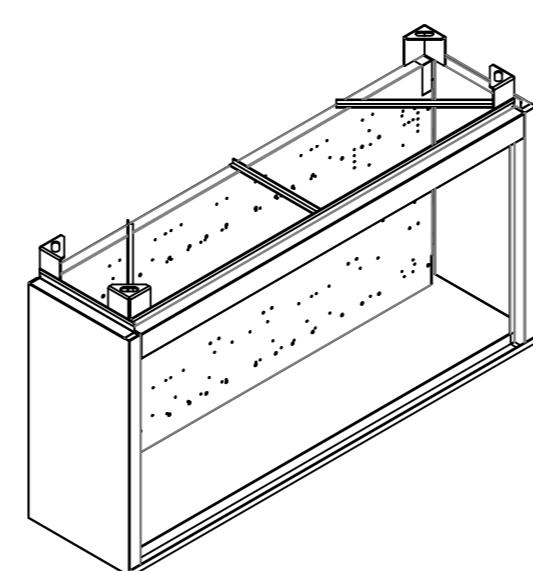
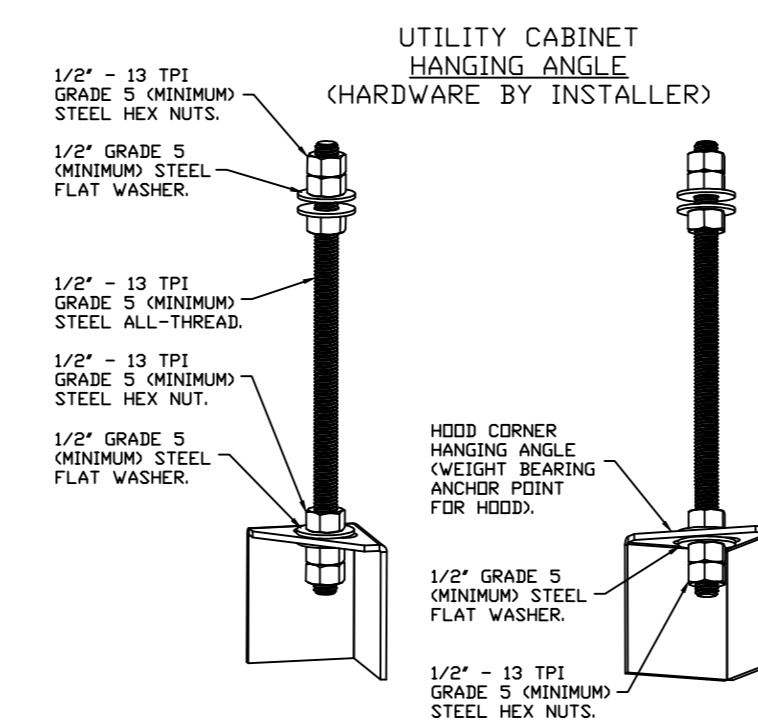
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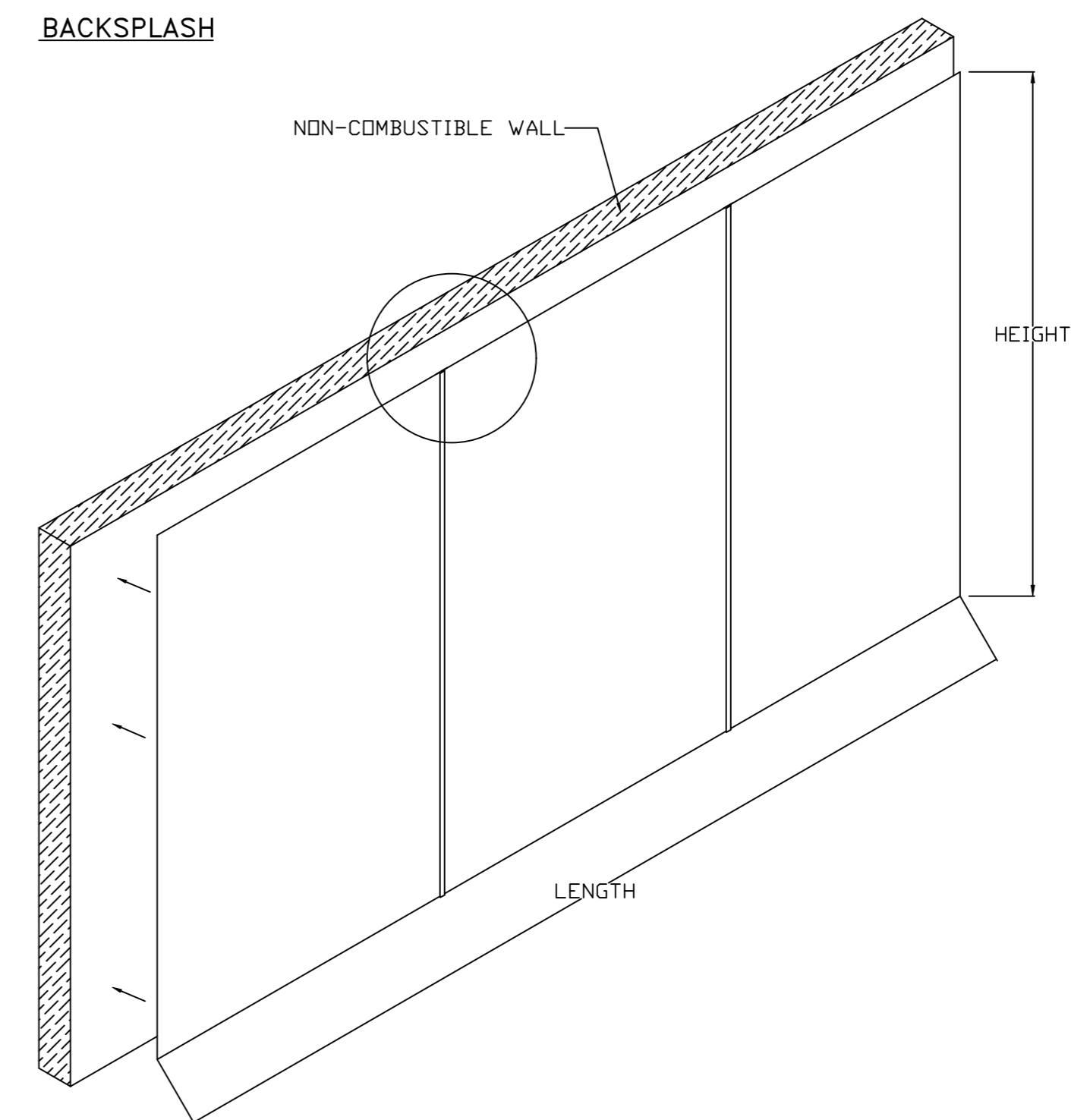
WALL-MOUNT UTILITY CABINET ASSEMBLY INSTRUCTIONS

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 UTILITY CABINET HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

CABINET TO BE HUNG BY HOOD INSTALLER. SEE UTILITY CABINET SCHEDULE FOR CABINET SIZE.



BACKSPLASH



BACKSPLASH IS NOT INSULATED AND IS UNSUITABLE FOR INSTALL AGAINST COMBUSTIBLE WALLS

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

NO	DESCRIPTION	DATE

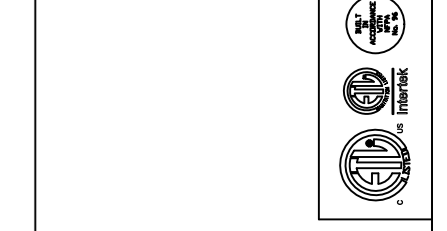
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US Army Reserve Center
4300 Saint Johns Avenue,
Palatka, FL, 32177

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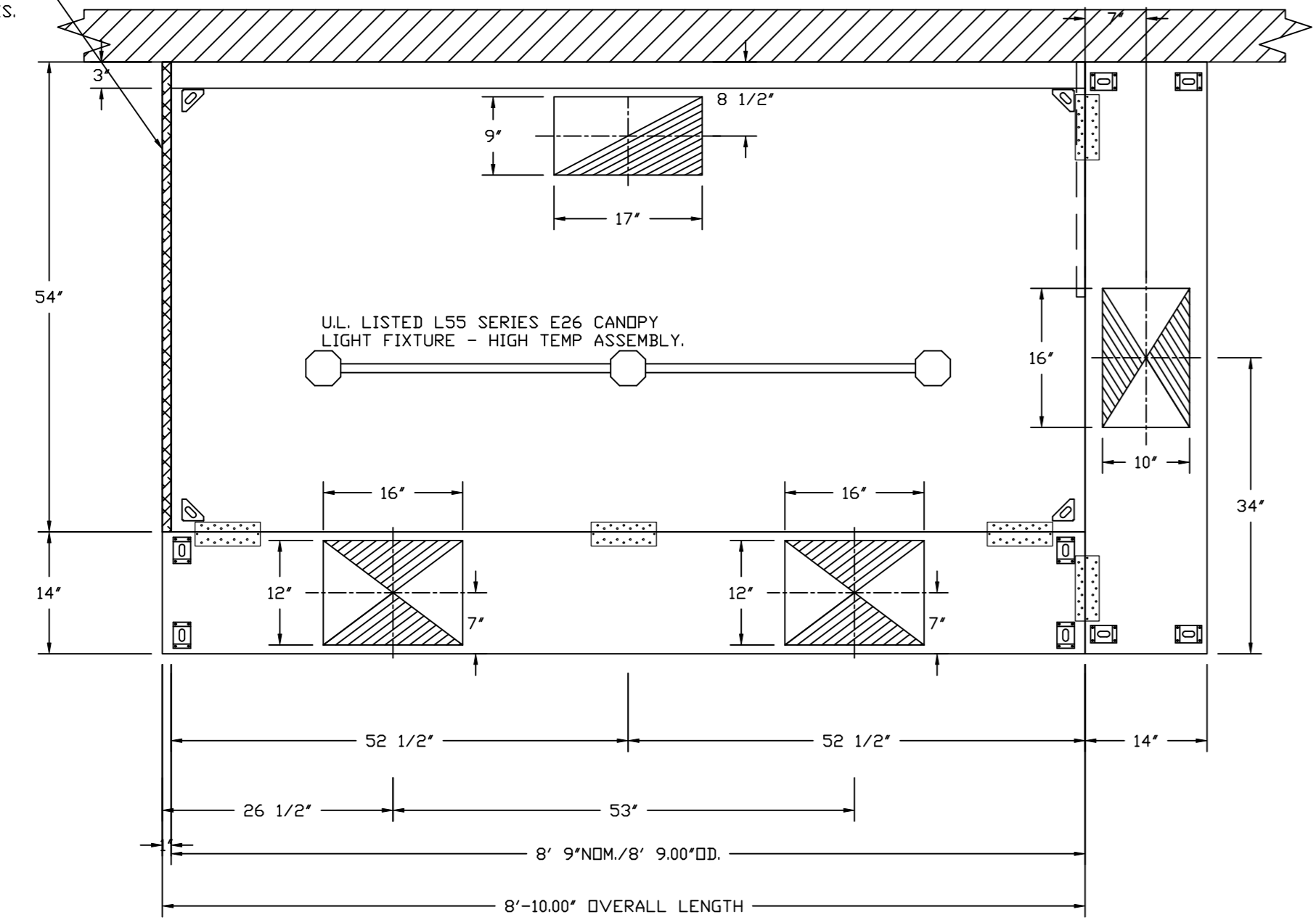
SHEET NO. 1

REVISIONS	DESCRIPTION	DATE
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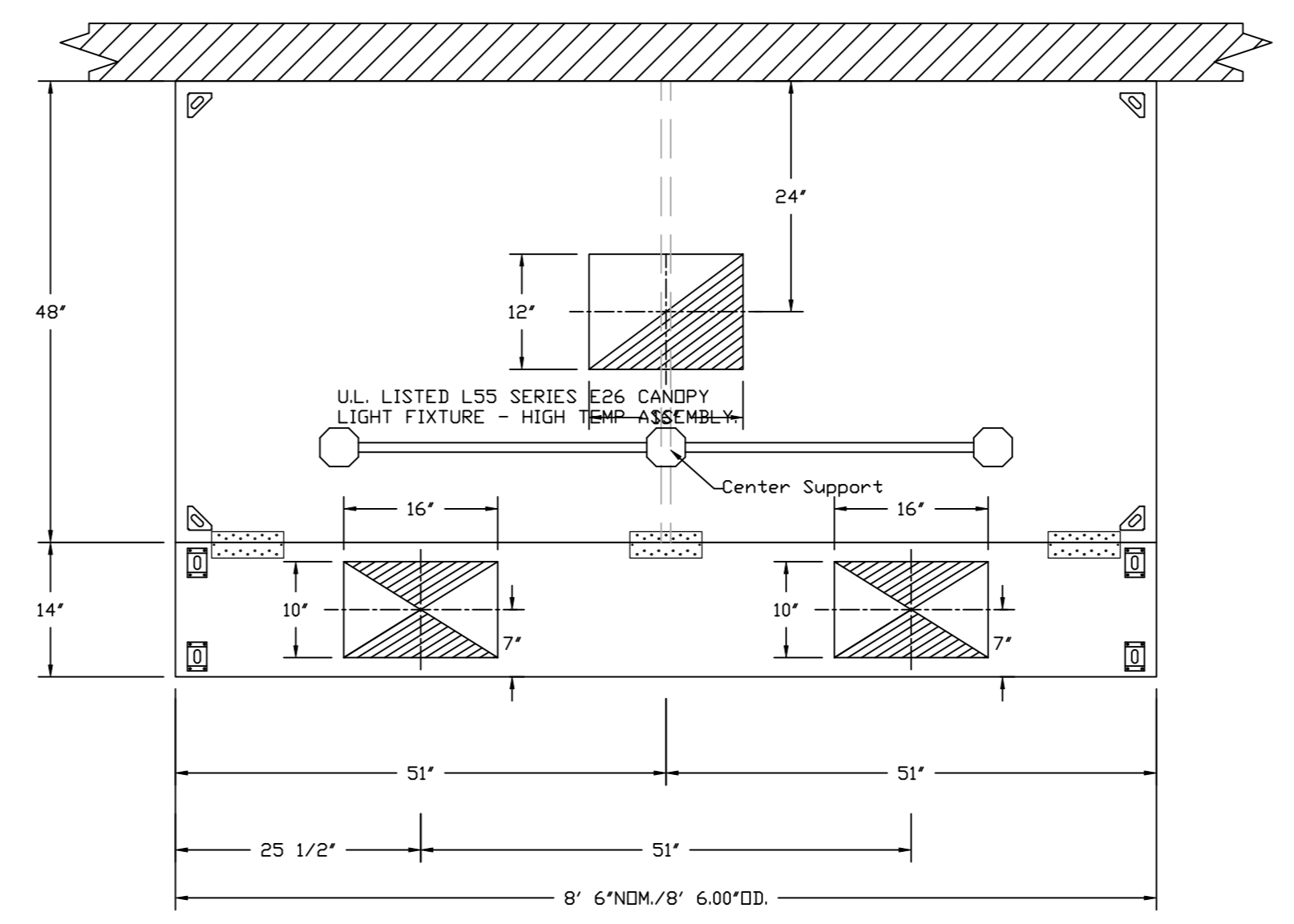


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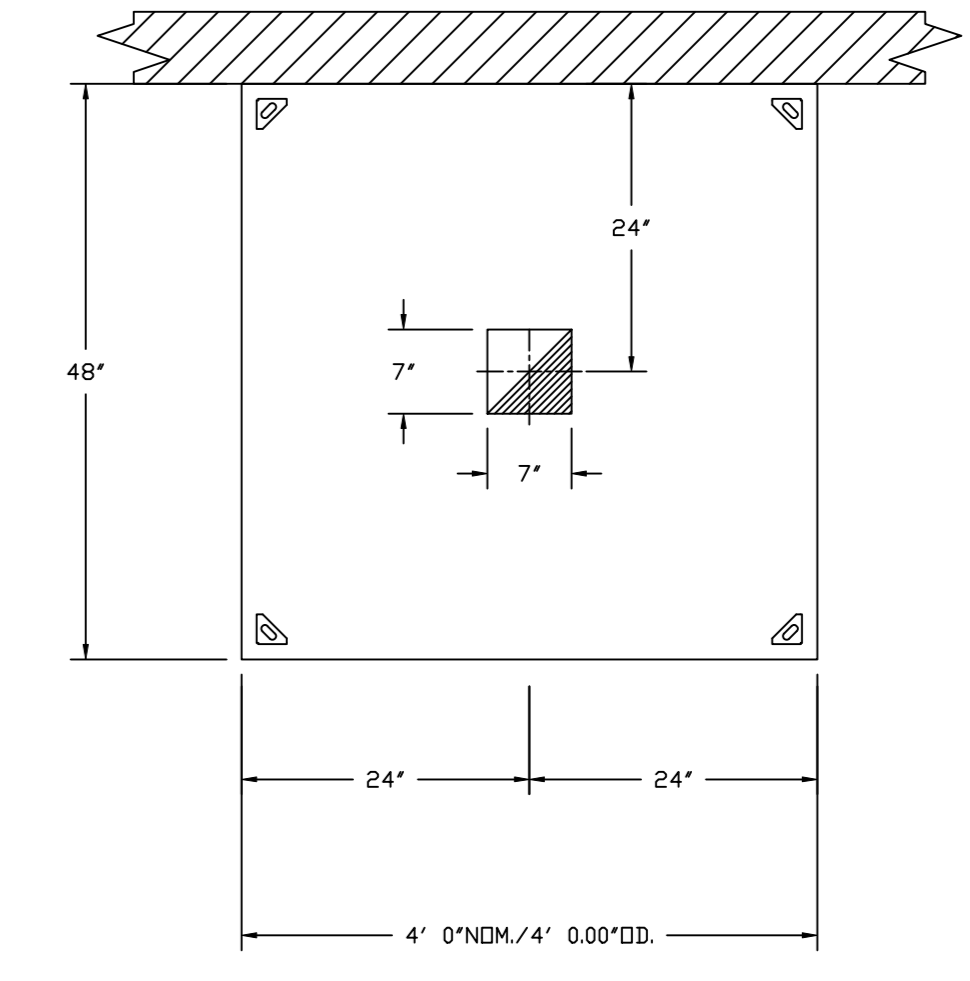
1" LAYER OF INSULATION FACTORY INSTALLED IN 100° END STANDOFF MEETS 0° REQUIREMENTS CLEARANCE TO COMBUSTIBLE SURFACES.



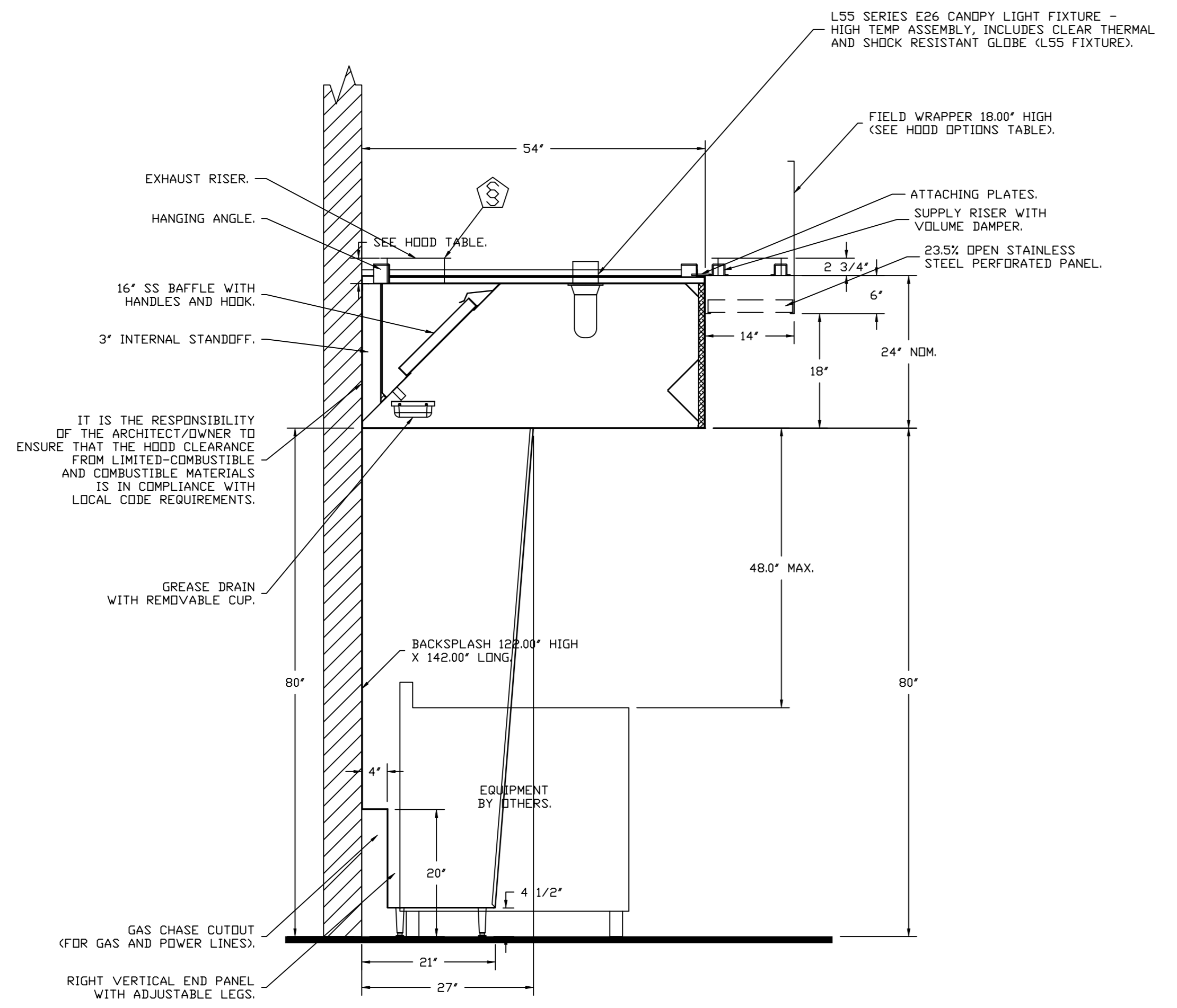
PLAN VIEW - HOOD #1 (KH-1 (Grease Hood))
 8' 9.00" LONG 54 2/4" EX-2-PSP-FS



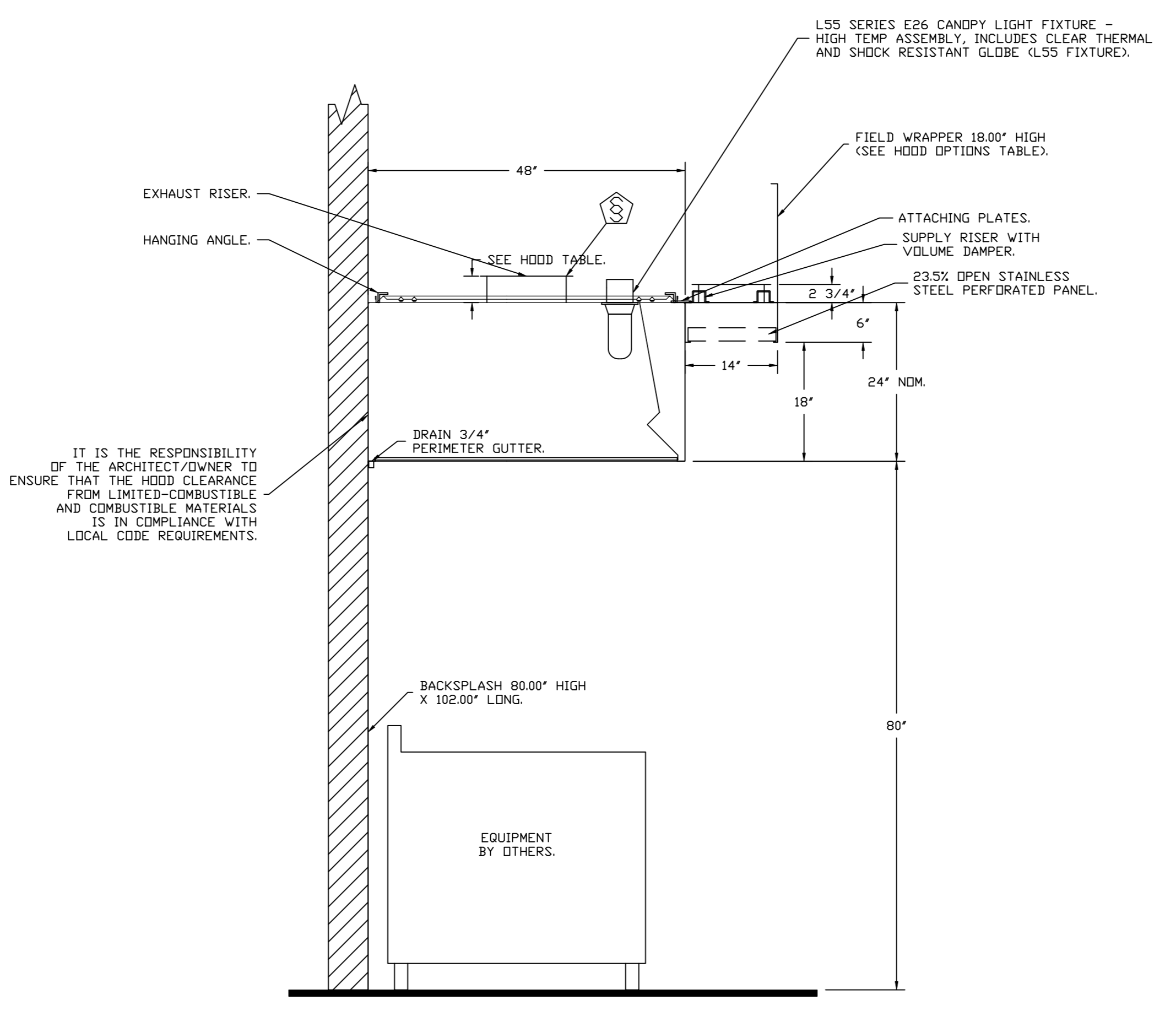
PLAN VIEW - HOOD #2 (KH-2 (Hot Wells))
 8' 6.00" LONG 48 2/4" EX-VHB-G-PSP-F-ND



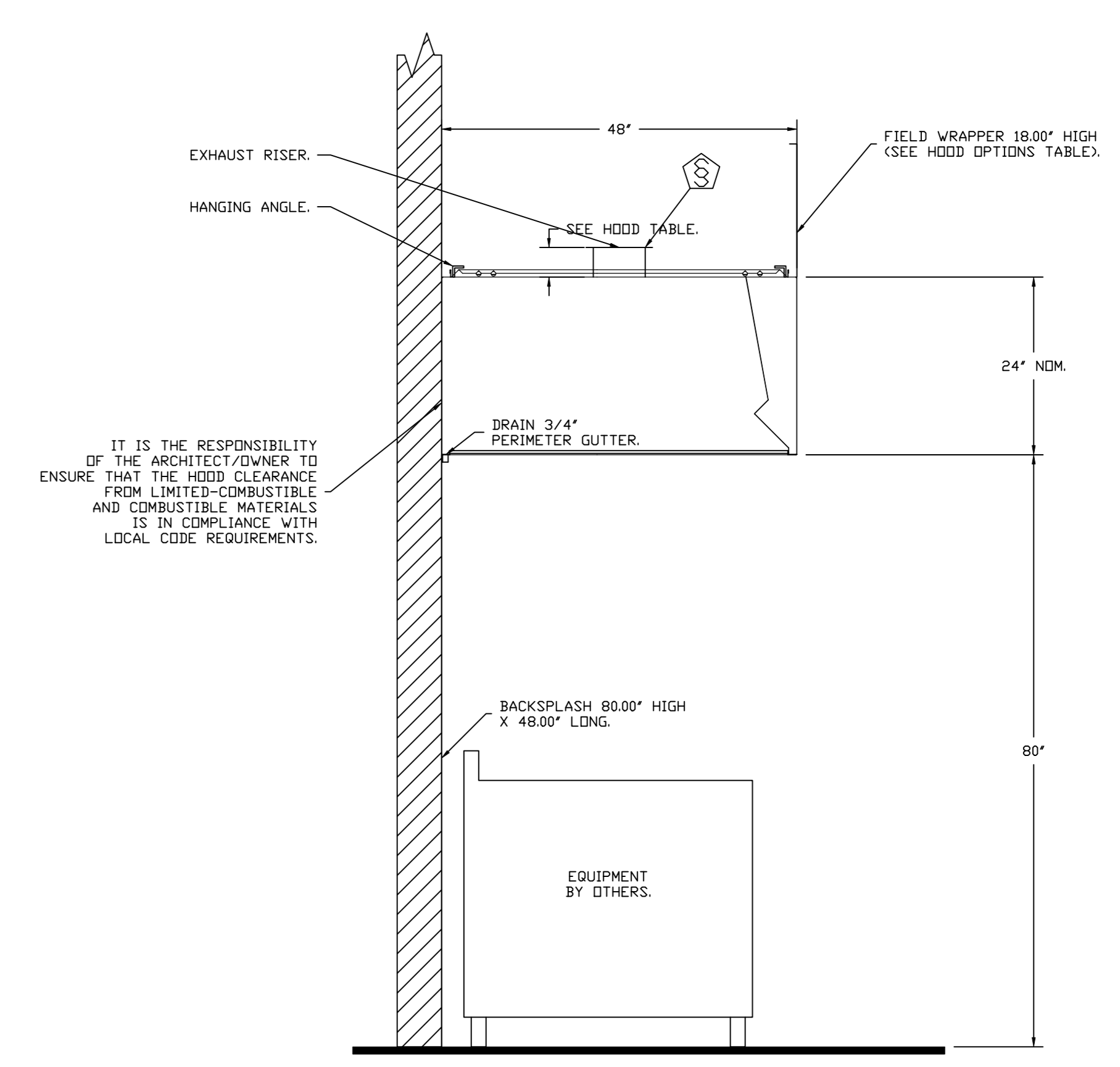
PLAN VIEW - HOOD #3 (KH-3 (Dish))
 4' 0.00" LONG 48 2/4" EX-VHB-G-ND



SECTION VIEW - MODEL 5424EX-2-PSP-FS
 HOOD - #1 (KH-1 (Grease Hood))



SECTION VIEW - MODEL 4824ES-VHB-G-PSP-F-ND
 HOOD - #2 (KH-2 (Hot Wells))



SECTION VIEW - MODEL 4824ES-VHB-G-ND
 HOOD - #3 (KH-3 (Dish))

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SHEET NO. 2

FIRE SYSTEM INFORMATION - JOB#6119534

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1	KH-1 (GREASE HOOD)	TANK FS	4.0	20	16	WALL UTILITY CABINET LEFT	N/A

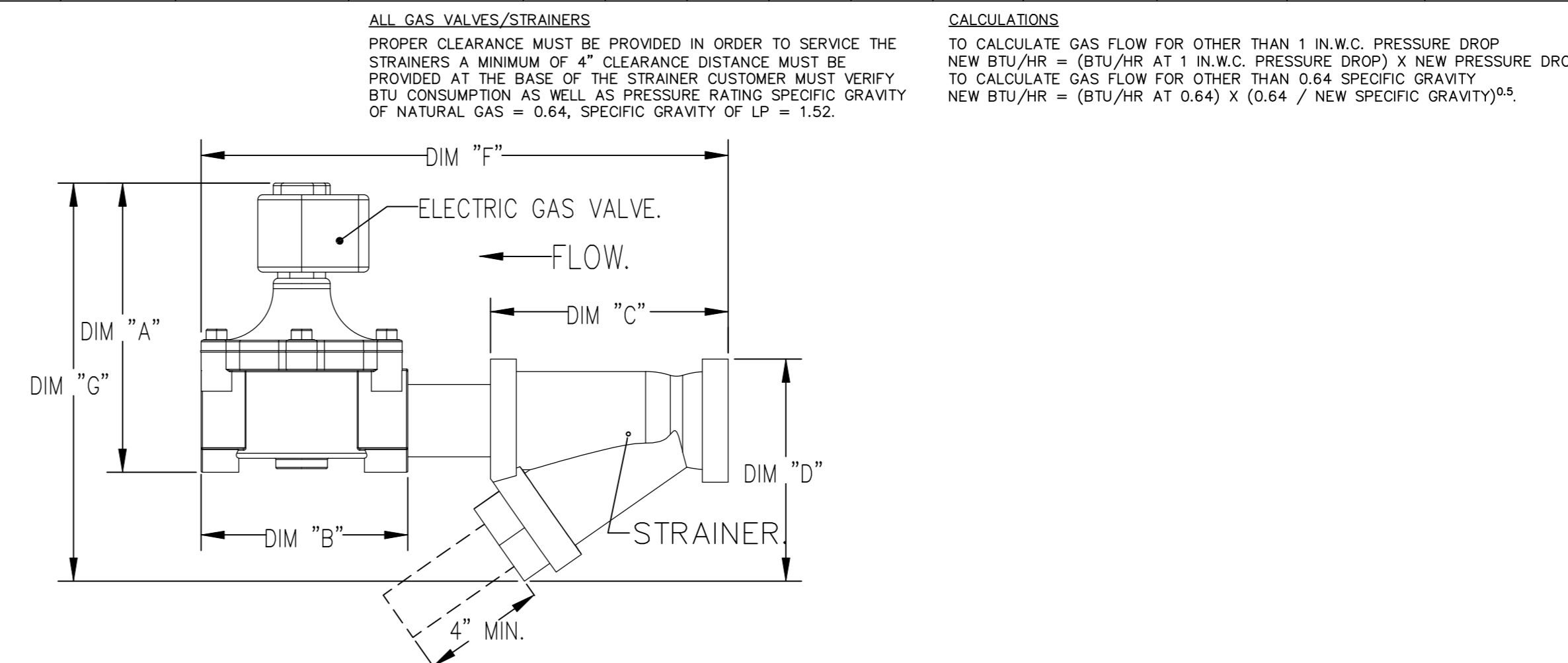
GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1	KH-1 (GREASE HOOD)	SC ELECTRICAL	1.250	ECON-AIR

FIRE SYSTEM PARTS LIST KEY

FIRE SYSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
		0 - 0 - TANK FIRE SUPPRESSION MAINTENANCE GUIDE UTILITY CABINET LABEL SHEET.	1	0
		0 - 0 - TANK FIRE SUPPRESSION POST-DISCHARGE PROCEDURE UTILITY CABINET LABEL SHEET.	1	0
		0 - 0 - 12-F-28021-32144-01-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO. CLOSE ON TEMP RISE AT 360°F.	1	0
		0 - 0 - 4429K153 1/2" MALE NPT TO 1/2" FEMALE NPT ELBOW, BRASS.	1	0
		0 - 0 - 4429K422 1/2" X 1/4" BRASS REDUCING BUSHING.	1	0
		0 - 0 - 79525 1/2" 90 PRO-PRESS ELBOW WITH 1/2" NPT FEMALE CONNECTION, VIEGA.	1	0
		0 - 0 - 79580 1/2" X 1/2" PRO-PRESS TEE X 1/2" NPT FEMALE CONNECTION, VIEGA.	1	0
		0 - 0 - 87-30001-001 TANK - PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-30003-001 PRIMARY ACTUATOR KIT (PAK) - ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-30015-001 HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION.	4	0
		0 - 0 - 98694A115 HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - A0034332 JUNCTION BOX FOR MANUAL PULL STATION 1.5" DEEP BACK BOX, RED COLOR.	1	0
		0 - 0 - A31484 1/4" NPT SCHRADER VALVE AND CAP, JB INDUSTRIES. 1/4" FLARE X 1/4" MPT HALF UNION. USED ON TANK SERVICE PORT.	1	0
		0 - 0 - DATANKLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - SLPDCN-15FT SUPERVISED LOOP CONNECTION KIT. CONTAINS THE PARTS NEEDED TO CONNECT THE SUPERVISED LOOP BETWEEN END TO END HOODS WITH LESS THAN A 14' GAP OR BACK TO BACK HOODS. KIT CONTAINS 17 FEET OF BLACK MG WIRE, 17 FEET OF TAN MG WIRE, 15 FEET OF FLEXIBLE CONDUIT, AND TWO 7/8" CONNECTORS.	2	0
		0 - 0 - TANK STRAP TANK STRAP - USED FOR TANK FIRE SUPPRESSION.	3	0
		0 - 0 - TFS-UCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - WK-283952-000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	1	0
		34 - 34 - A0034331 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT. RED COLOR.	1	0

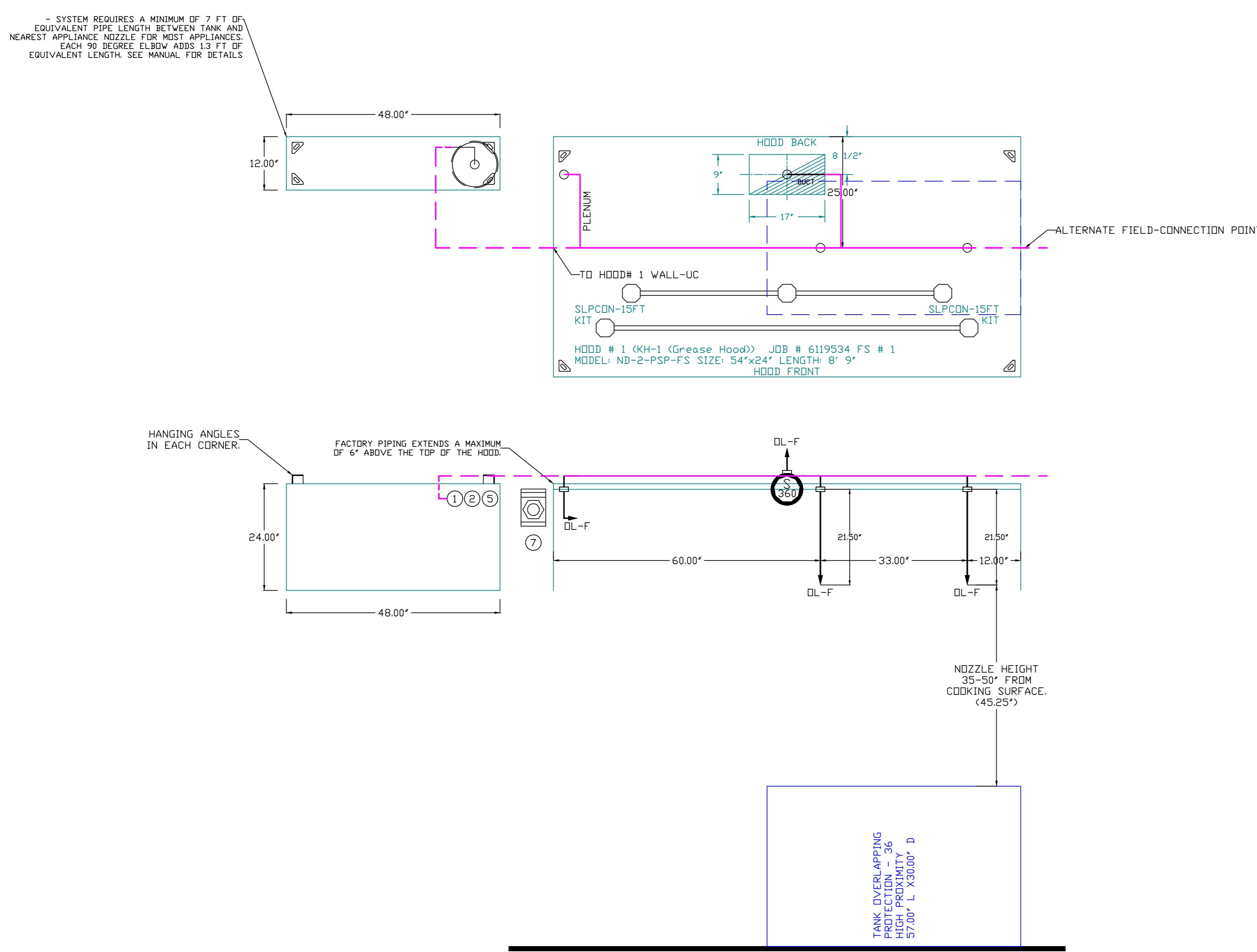
GAS VALVES AND STRAINERS																
TYPE	SIZE	VOLTAGE	GAS VALVE SIZING			GAS VALVE DIMENSIONS					INSTALLATION	PART NUMBERS				
			MIN. INLET PRESSURE	MAX. INLET PRESSURE	FLOW AT 1 IN.W.C. DROP NATURAL GAS	FLOW AT 1 IN.W.C. DROP PROPANE	DIM "A"	DIM "B"	DIM "C"	DIM "D"		DIM "E"	DIM "G"	MOUNTING ORIENTATION	GAS VALVE PART NUMBER	STRAINER PART NUMBER
ELECTRICAL	1-1/4"	24 VDC	0 PSI (0 IN.W.C.)	5 PSI (1.58 IN.W.C.)	1,925,000 BTU/HR	1,249,105 BTU/HR	7-5/8"	6-3/8"	5-1/8"	5-15/16"	13-1/2"	12-1/16"	HORIZONTAL	8214265-24VDC	4417K66	(SC)EGVC1-1/4-24



- 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

JOB #: 6119534
 JOB NAME: US ARMY RESERVE CENTER.
 SYSTEM SIZE: TANK-SP-1-WC DESIGN FP: 16. MAXIMUM FP: 20.
 HOOD # 1 8' 9.00" LONG x 54" WIDE x 24" HIGH.
 RISER # 1 SIZE: 9" x 17".
 HOOD # 1 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.



REVISIONS

DESCRIPTION	DATE

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SHEET NO.
3

EXHAUST FAN INFORMATION - JOB#6119534

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	KH-1 GREASE HOOD	1	EADU180H	ECON-AIR	1750	1.250	1024	DDP-PREMIUM	1.500	0.7790	3	208	6.6	404 FPM	182	10.4
3	KH-2 HDT WELLS	1	EADU50H	ECON-AIR	1275	0.600	1378	TEAD-ECM	0.500	0.2960	1	208	3.8	485 FPM	71	13
5	KEF-3 DISH	1	EADU33H	ECON-AIR	450	0.600	1175	TEAD-ECM	0.333	0.1100	1	208	2.5	223 FPM	64	9.7

MUA FAN INFORMATION - JOB#6119534

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MDCP	WEIGHT (LBS)	SDNES
2	KH-1 GREASE HOOD	1	EAI-D-500-1SD	1SMF-1-MOD	A1-D-500	1000	1650	0.570	1877	DDP-PREMIUM	1.500	1.0300	3	208	4.4	5.5A	15A	582	17.3
4	KH-2 HDT WELLS	1	EAI-D-500-1SD	1SMF-1-MOD	A1-D-500	1000	1200	0.590	1558	TEAD-ECM	1.000	0.5680	1	115	11.6	16.6A	25A	556	12.2

GAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO	TAG	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY(%)
2	KH-1 GREASE HOOD	72615	66806	38°F	7 IN. W.C. - 14 IN. W.C.	NATURAL	92
4	KH-2 HDT WELLS	52811	48586	38°F	7 IN. W.C. - 14 IN. W.C.	NATURAL	92

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	KH-1 GREASE HOOD	1	GREASE BOX
		1	MIAMI DADE CERTIFICATION - NDA-1 ALUMINUM UPBLAST
		1	FAN BASE CERAMIC SEAL - SHIP LOOSE - FOR GREASE DUCTS
		1	2 YEAR PARTS WARRANTY
2	KH-1 GREASE HOOD	1	SIZE 1 TEMPERED COMMERCIAL DOWN DISCHARGE FOR DIRECT DRIVE AHUS
		1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC
		1	SHIP LOOSE GAS STRAINER 3/4"
		1	MOTORIZED BACKDRAFT DAMPER FOR A1-D HOUSING - MEETS AMCA CLASS 1A RATING
		1	MIAMI DADE CERTIFICATION - NDA-2 SUPPLY
		1	CLOGGED FILTER SWITCH - DRY CONTACT
		1	SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) - THREE PHASE ONLY
		1	2 YEAR PARTS WARRANTY
		1	MIAMI DADE CERTIFICATION - NDA-1 ALUMINUM UPBLAST
3	KH-2 HDT WELLS	1	ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION
		1	2 YEAR PARTS WARRANTY
		1	SIZE 1 TEMPERED COMMERCIAL DOWN DISCHARGE FOR DIRECT DRIVE AHUS
		1	INLET PRESSURE GAUGE, 0-35"
4	KH-2 HDT WELLS	1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC
		1	SHIP LOOSE GAS STRAINER 3/4"
		1	MOTORIZED BACKDRAFT DAMPER FOR A1-D HOUSING - MEETS AMCA CLASS 1A RATING
		1	MIAMI DADE CERTIFICATION - NDA-2 SUPPLY
		1	CLOGGED FILTER SWITCH - DRY CONTACT
		1	ECM WIRING PACKAGE - DD SUPPLY - PWM SIGNAL FROM ECPM03 PREWIRE (TELCO MOTOR)
		1	2 YEAR PARTS WARRANTY
		1	MIAMI DADE CERTIFICATION - NDA-1 ALUMINUM UPBLAST
		1	ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION
		1	2 YEAR PARTS WARRANTY
5	KEF-3 DISH	1	MIAMI DADE CERTIFICATION - NDA-1 ALUMINUM UPBLAST
		1	ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION

FAN ACCESSORIES

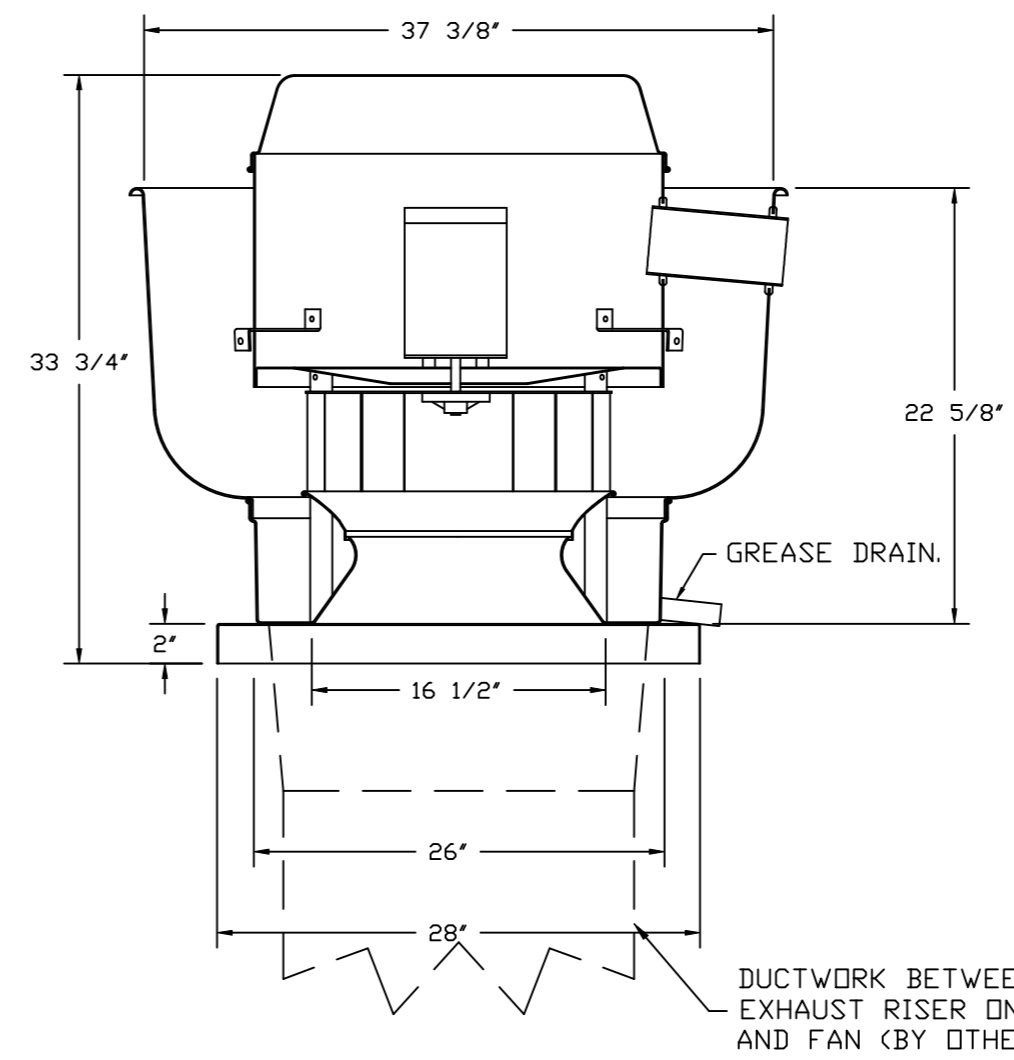
FAN UNIT NO	TAG	EXHAUST				SUPPLY		
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	KH-1 GREASE HOOD	YES						
2	KH-1 GREASE HOOD					YES		
3	KH-2 HDT WELLS							
4	KH-2 HDT WELLS						YES	
5	KEF-3 DISH							

CURB ASSEMBLIES

NO	DN FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	KH-1 GREASE HOOD	34 LBS	CURB	26.500"W X 26.500"L X 26.000"H VENTED HINGED.
2	# 2	KH-1 GREASE HOOD	75 LBS	CURB	21.000"W X 71.000"L X 20.000"H INSULATED.
3	# 3	KH-2 HDT WELLS	20 LBS	RAIL	4.000"W X 4.000"L X 36.000"H.
4	# 4	KH-2 HDT WELLS	75 LBS	CURB	19.500"W X 19.500"L X 18.000"H.
5	# 5	KEF-3 DISH	20 LBS	RAIL	4.000"W X 4.000"L X 36.000"H.

HMI SCHEDULE				
UNIT NUMBER	HMI #	HMI LOCATION	TEMP AVERAGING	MODBUS ADDRESS
FAN #2	HMI #1 - UNIT	HMI #1 MOUNTED IN UNIT	NOT AVERAGED	55
FAN #4	HMI #1 - UNIT	HMI #1 MOUNTED IN UNIT	NOT AVERAGED	55

FAN #1 EADU180H - EXHAUST FAN (KH-1 GREASE HOOD)



TOP VIEW

FEATURES:

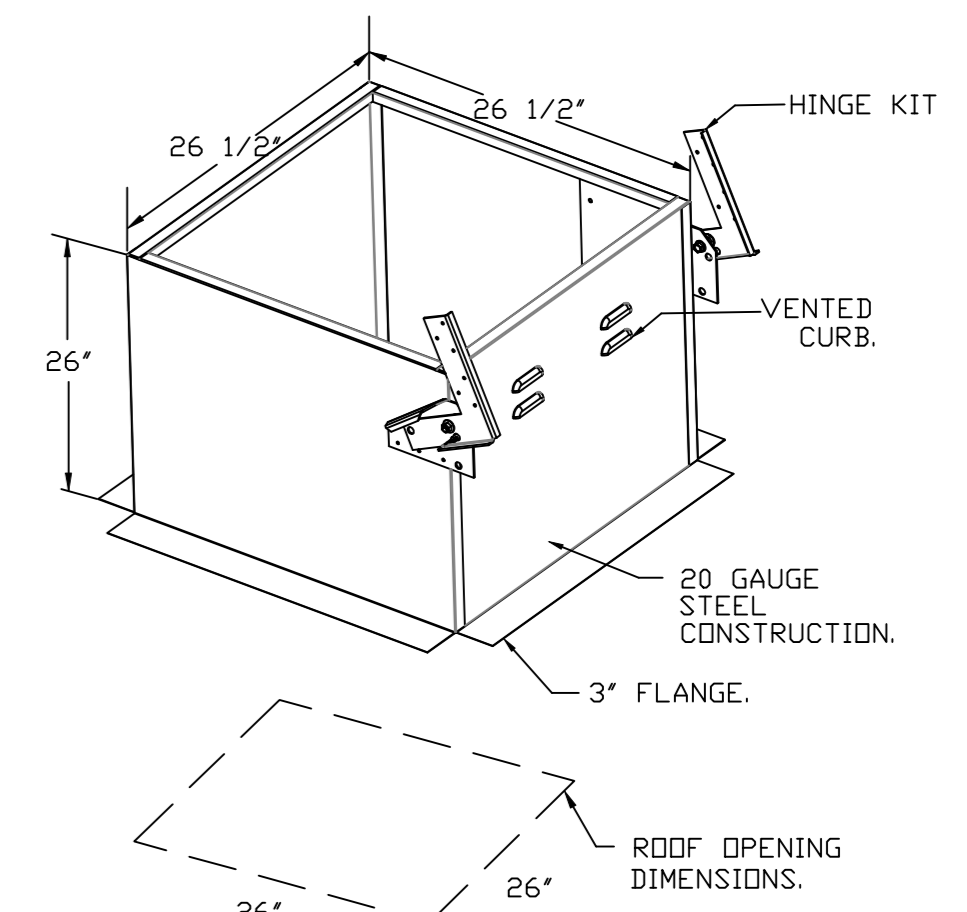
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT 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.

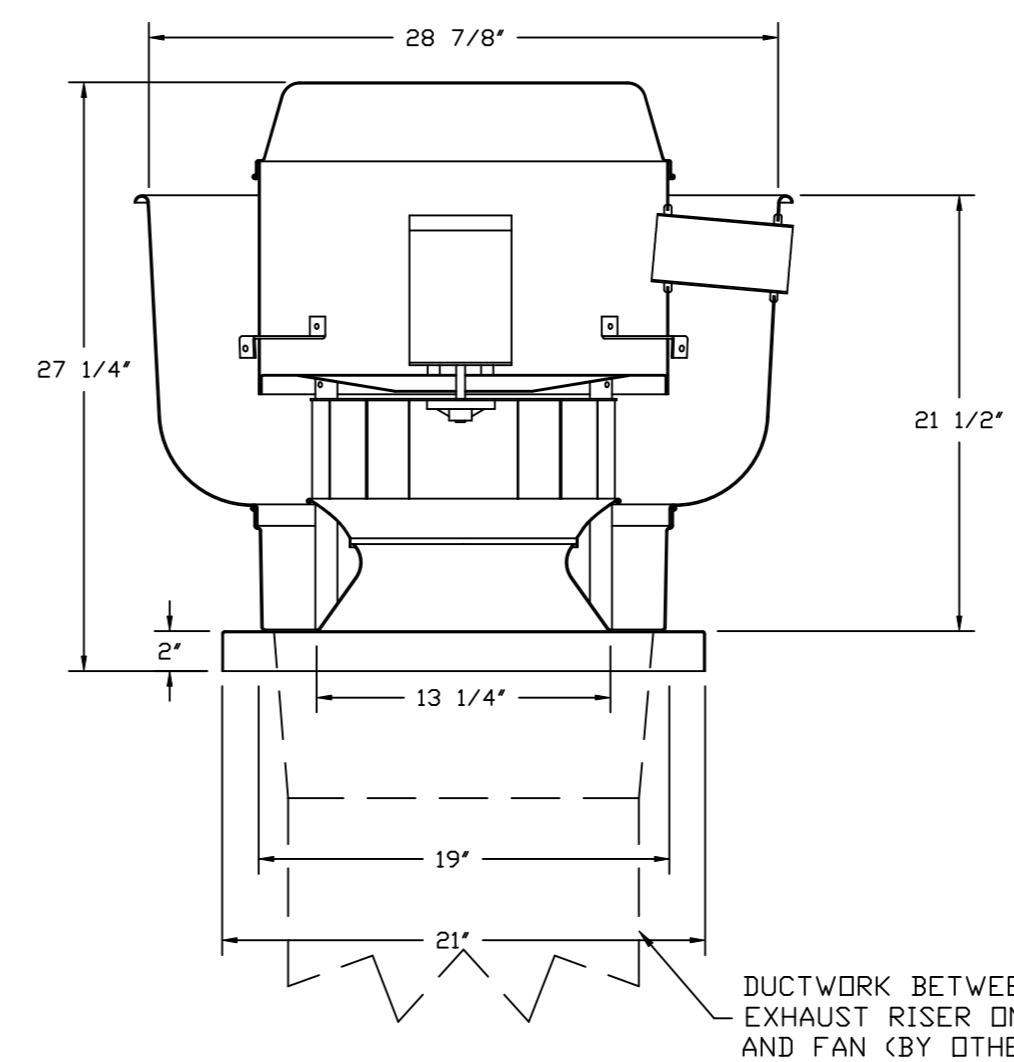
ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

- GREASE BOX.
- MIAMI DADE CERTIFICATION - NDA-1 ALUMINUM UPBLAST.
- FAN BASE CERAMIC SEAL - SHIP LOOSE - FOR GREASE DUCTS.
- 2 YEAR PARTS WARRANTY.



FAN #3 EADU50H - EXHAUST FAN (KH-2 HDT WELLS)



TOP VIEW

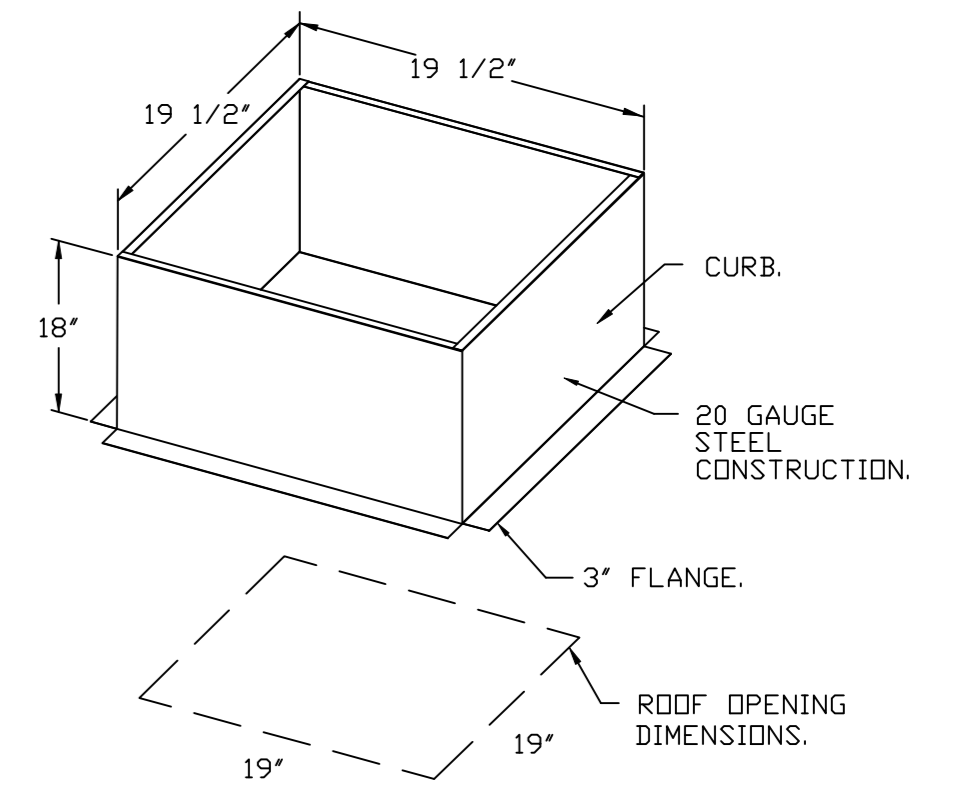
FEATURES:

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

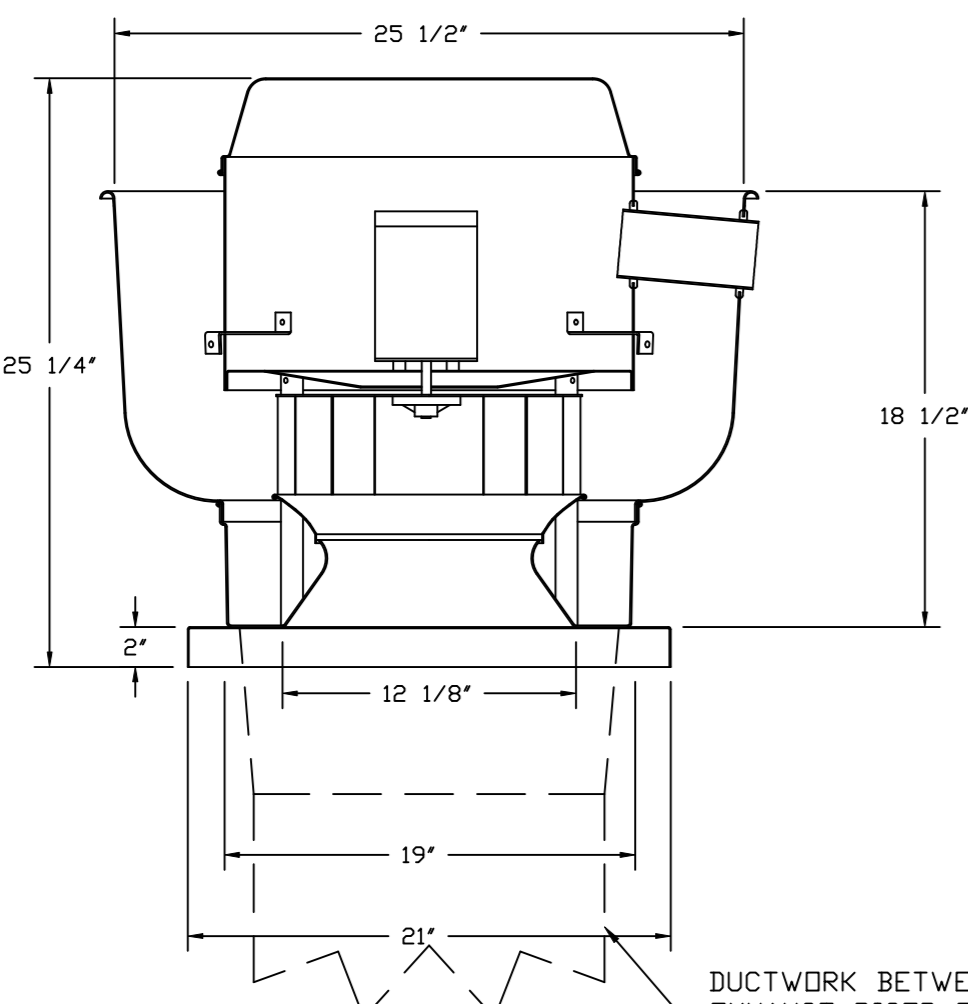
NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

OPTIONS

- MIAMI DADE CERTIFICATION - NDA-1 ALUMINUM UPBLAST.
- ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION.
- 2 YEAR PARTS WARRANTY.



FAN #5 EADU33H - EXHAUST FAN (KEF-3 DISH)



TOP VIEW

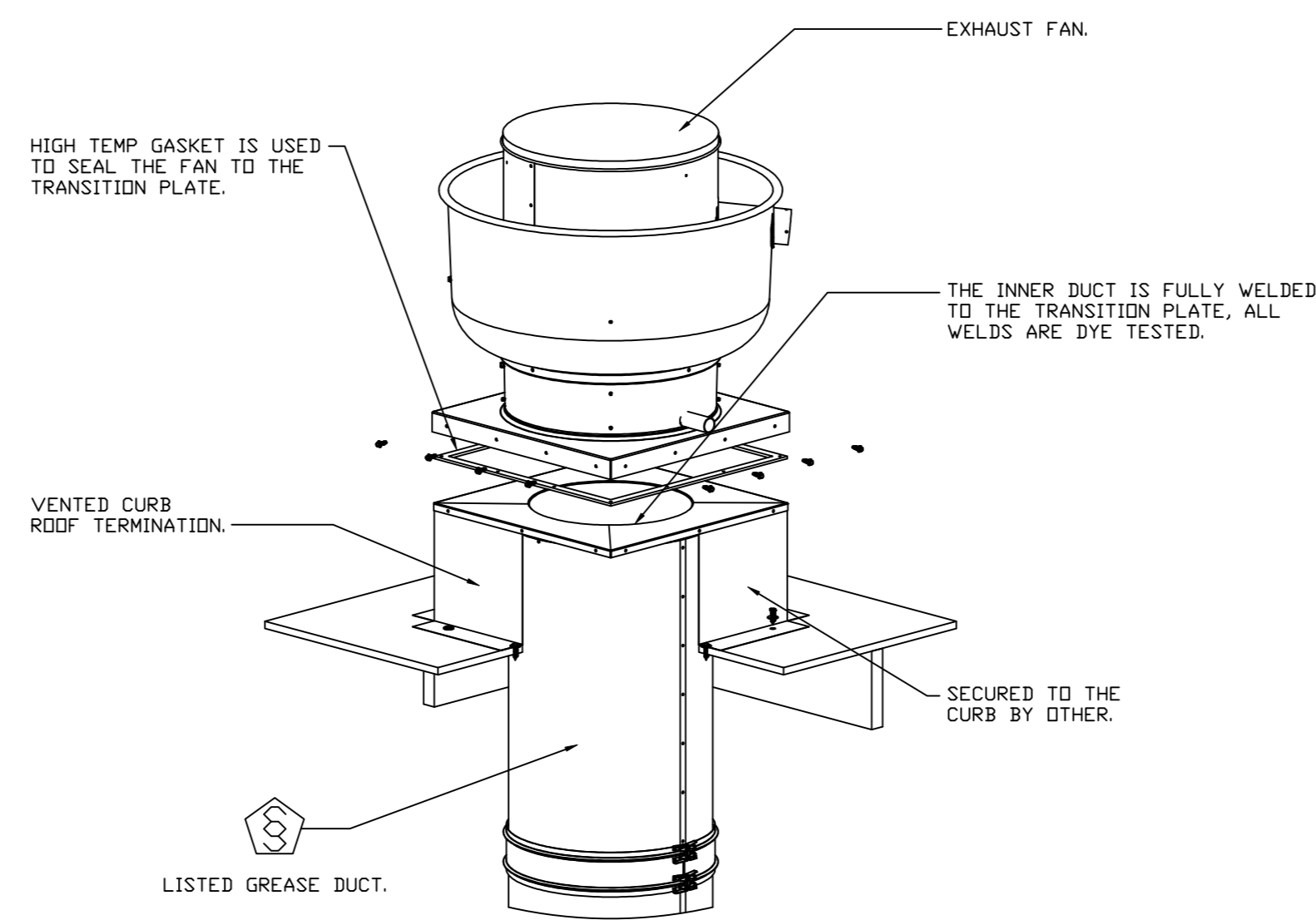
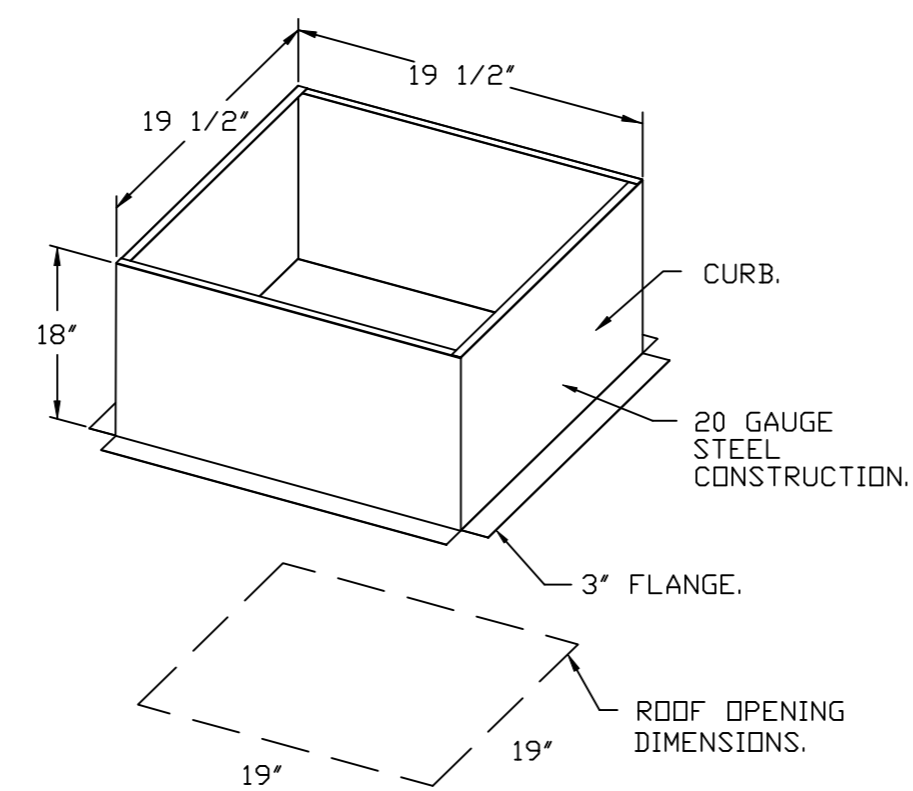
FEATURES:

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

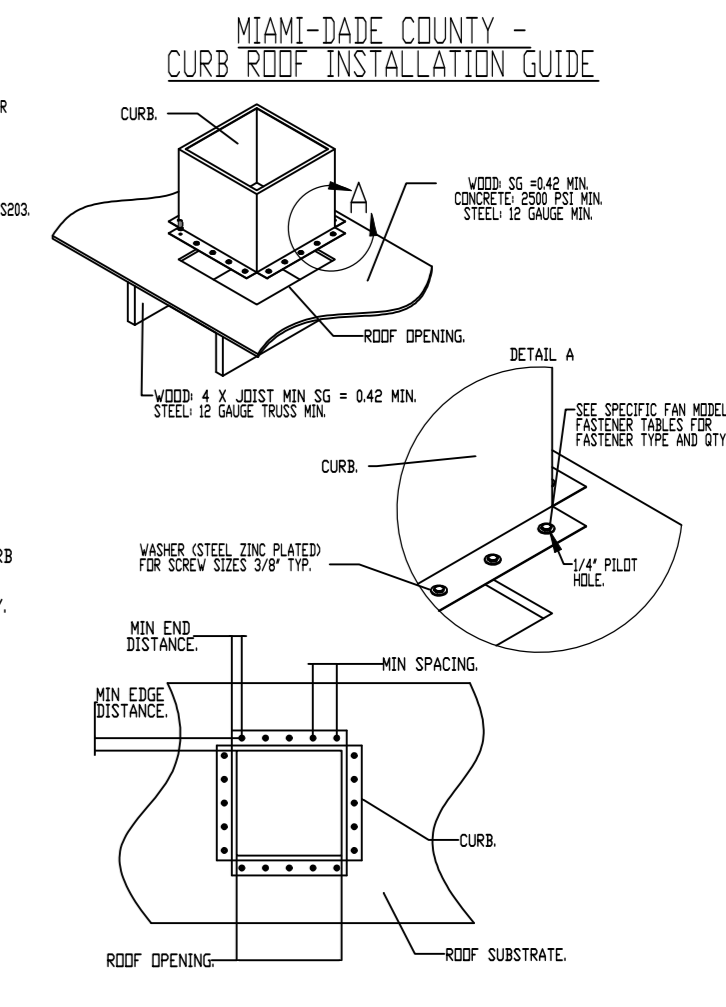
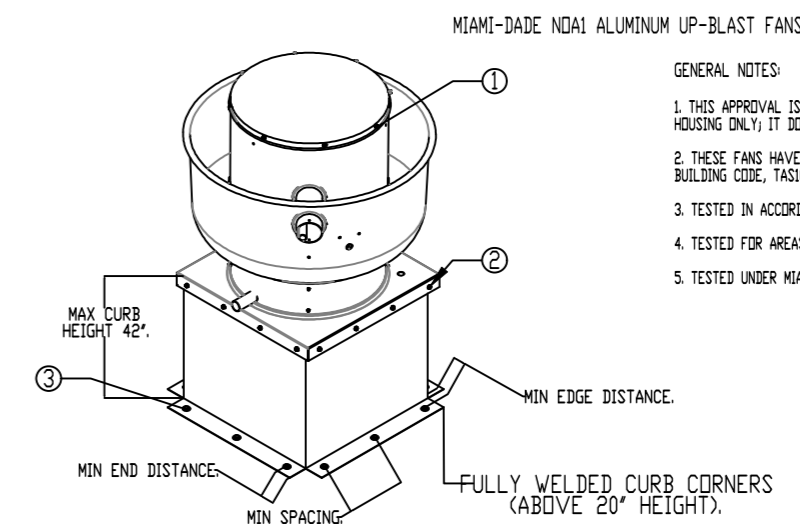
NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

OPTIONS

- MIAMI DADE CERTIFICATION - NDA-1 ALUMINUM UPBLAST.
- ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION.
- 2 YEAR PARTS WARRANTY.



*NOTE: UL 762 INSTALL.



GENERAL NOTES

- SEE DRAWING FOR THE STRUCTURAL CAPACITY AND SPACING OF THE OVERHEAD HOUSING ONLY IT DOES NOT INCLUDE ANY OTHER INFORMATION OR ELECTRICAL PART.
- SEE CURB MAKE-UP UNIT AND TESTED FOR WIND BROWN TEST PER FLORIDA BUILDING CODE, SECTION 609.05.
- TESTED IN ACCORDANCE TO FLORIDA BUILDING CODE TEST PROTOCOL, THERMAL, THERMAL, THERMAL.
- TESTED FOR WIND-BLASTING HIGH VELOCITY WINDS (VIZ) ZONES.
- TESTED UNDER HIGH-TEMPERATURE (VIZ) ZONES.

INSTALLATION FASTENER TYPES

FAN MODEL	FAN TO CURB		WOOD (20 # x 4.42 MIN)		STEEL (1/2 GAUGE MIN)		CONCRETE (2000 PSI MIN CRACKED CONCRETE)	
	FASTENER	MINIMUM THREAD DISTANCE	FASTENER	MINIMUM THREAD DISTANCE	FASTENER	MINIMUM THREAD DISTANCE	FASTENER	MINIMUM THREAD DISTANCE
BURR	3/8" DIA. ZINC PLATED UNDRILL (DRILL-FLEX OR BELT)	3.12"	3/8" DIA. ZINC PLATED UNDRILL (DRILL-FLEX OR BELT)	3.12"	1/2" DIA. SELF-DRILLING (DRILL-FLEX OR BELT)	3.12"	3/8" DIA. SELF-DRILLING (DRILL-FLEX OR BELT)	3.12"
BURR	N/A	N/A	N/A	N/A	1/2" DIA. SELF-DRILLING (DRILL-FLEX OR BELT)	3.12"	3/8" DIA. SELF-DRILLING (DRILL-FLEX OR BELT)	3.12"
BURR	N/A	N/A	N/A	N/A	1/2" DIA. SELF-DRILLING (DRILL-FLEX OR BELT)	3.12"	3/8" DIA. SELF-DRILLING (DRILL-FLEX OR BELT)	3.12"

INSTALLATION FASTENER QTY

FAN MODEL	CURB TO FAN (WOOD)		WOOD (20 # x 4.42 MIN)		STEEL (1/2 GAUGE MIN)		CONCRETE (2000 PSI MIN CRACKED CONCRETE)	
	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL
BURR	3	3	3	3	3	3	3	3
BURR	3	3	3	3	3	3	3	3
BURR	3	3	3	3	3	3	3	3

REVISIONS

NO.	DESCRIPTION	DATE

Central Florida Office
www.econ-air.com
9801 W. SR. 434, Suite 001, Longwood, FL 32779 PHONE: (407) 882-0517 FAX: (407) 882-0517 EMAIL: reg@econ-air.com

US Army Reserve Center
4300 Saint Johns Avenue,
Palatka, FL, 32177

DATE: 12/19/2023
DWG.#: 6119534
DRAWN BY: NJL
SCALE: 3/4" = 1'-0"
MASTER DRAWING

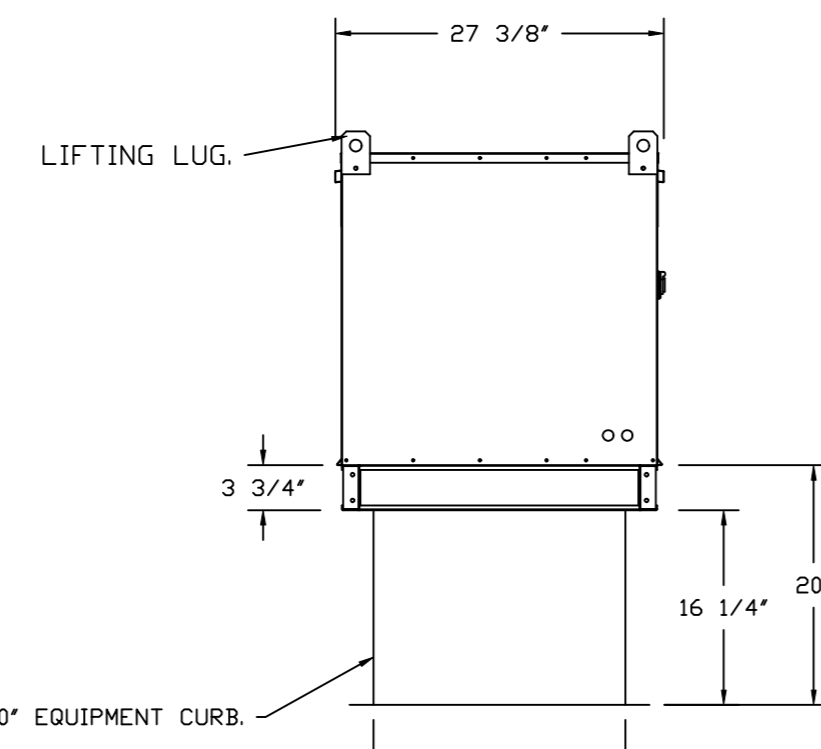
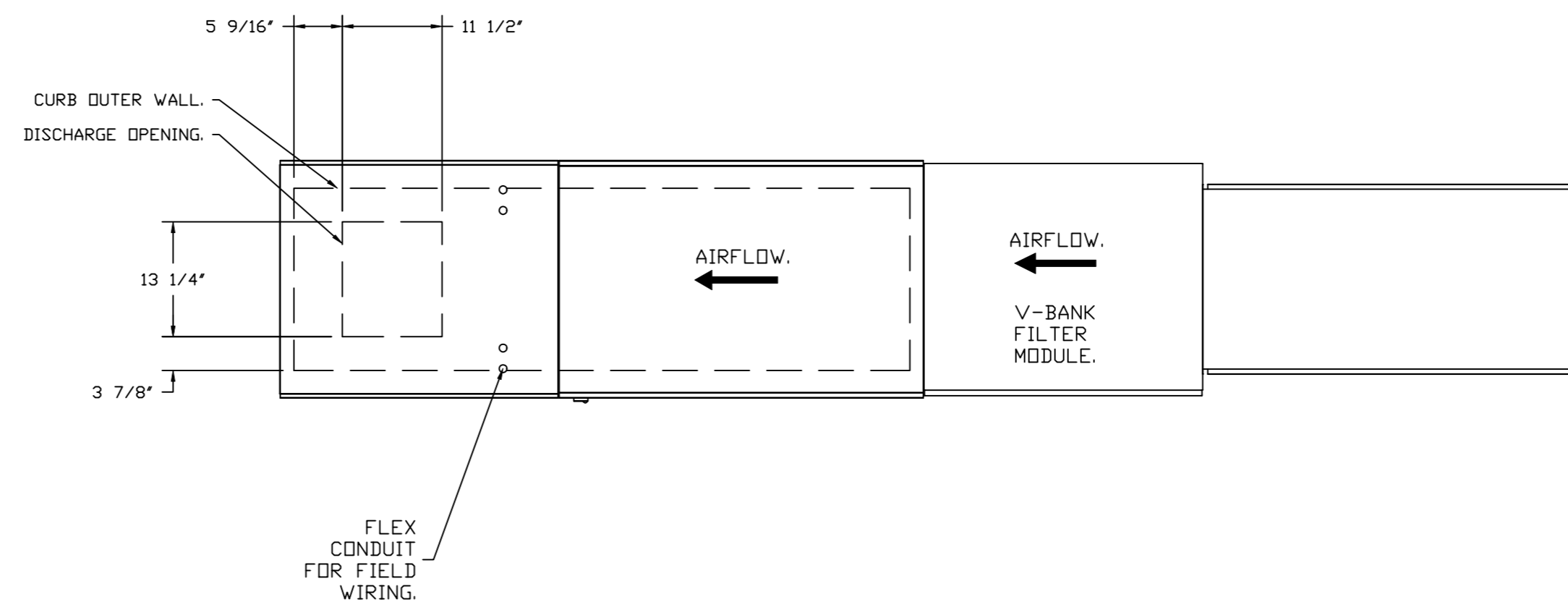
SHEET NO.
4

- FAN #2 EAI-D500-1SD - HEATER KKH-1 (GREASE HOOD)
1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 15' MIXED FLOW DIRECT DRIVE FAN.
 2. V-BANK TA FILTERS W/INTAKE HOOD WITH EZ FILTERS - OUTDOOR.
 3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.
 4. DOWN DISCHARGE CONSTRUCTION FOR SIZE 1 DIRECT DRIVE AHUS.
 5. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE.
 6. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC, 2.5" DIAMETER, 1/4" THREAD SIZE.
 7. SHIP LOOSE GAS STRAINER, TO BE INSTALLED UPSTREAM OF UNIT CONNECTION, 3/4" CONNECTION.
 8. MOTORIZED BACK DRAFT DAMPER 16" X 16" FOR SIZE 1 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, TFB20S ACTUATOR INCLUDED.
 9. MIAMI BASE IMPACT AND WIND LOAD CERTIFICATION +30 / -130 PSF - MIAMI BASE COUNTY PRODUCT CONTROL APPROVED, FLORIDA BUILDING CODE APPROVAL. ROOF MOUNT EXHAUST CURBS UP TO 20" HIGH MUST BE 18 GAUGE ALUMINIZED.
 10. CLOGGED FILTER SWITCH.
 11. SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PREWIRE PANEL OR WITH DCV PACKAGE. PROVIDES SEPARATE 120VAC INPUT TO SUPPLY FAN. THIS 120V SIGNAL MUST BE RUN BY ELECTRICIAN FROM DCV TO MUA SWITCH.
 12. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER SECTION).
 13. 2 YEAR PARTS WARRANTY.

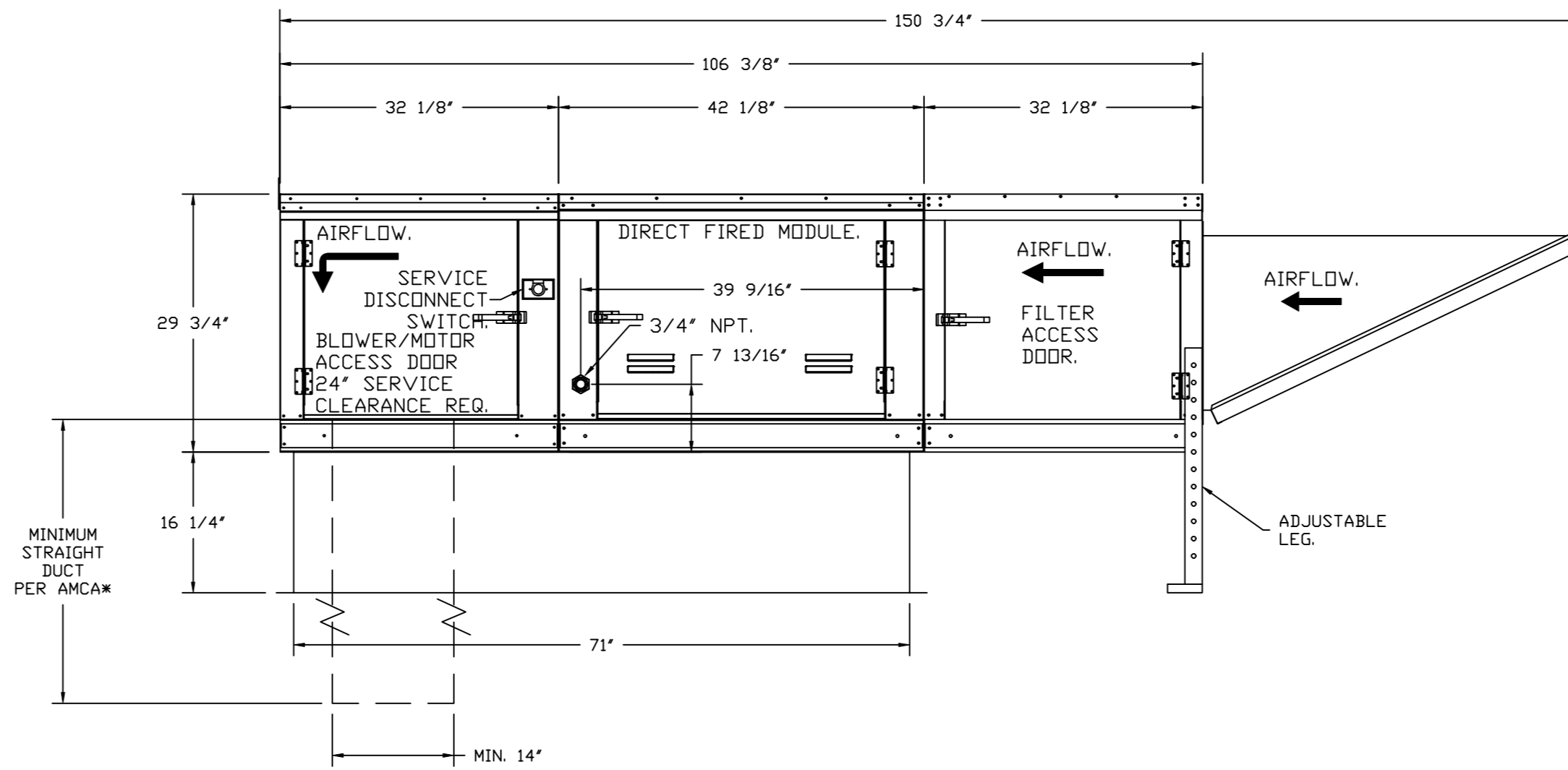
NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN ANCA PUBLICATION 200. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE 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 14" X 14".

SUPPLY SIDE HEATER INFORMATION

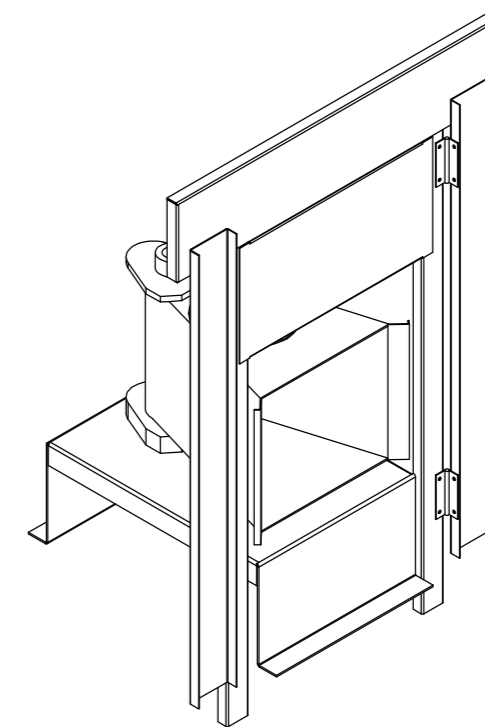
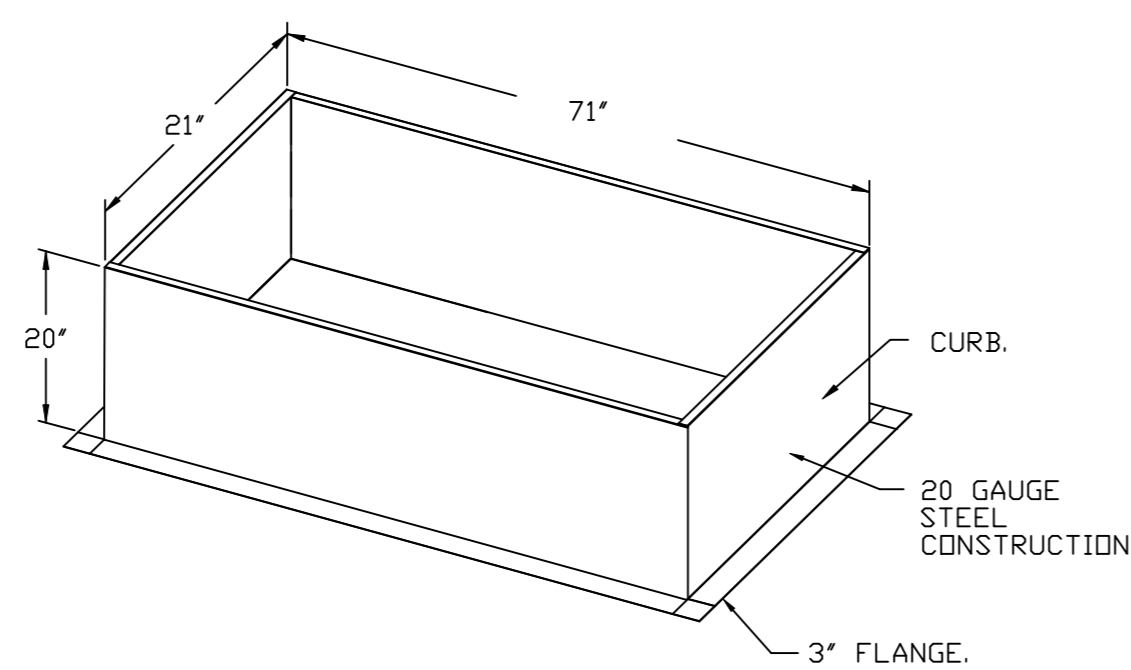
WINTER TEMPERATURE = 37°F. TEMP. RISE = 38°F.
 BTUS CALCULATED OFF ACTUAL AIR DENSITY.
 OUTPUT BTUS AT ALTITUDE OF 0.0 FT. = 66985.
 INPUT BTUS AT ALTITUDE OF 0.0 FT. = 72810.
 OUTPUT BTUS AT ALTITUDE OF 74 FT. = 66806.
 INPUT BTUS AT ALTITUDE OF 74 FT. = 72615.



ROOF OPENING 2" SMALLER THAN CURB DIMENSION.



OPTIONS:
 - FULL BOTTOM CORNERS.



DIRECT FIRED (DF) PROFILE PLATE ASSEMBLY

DIRECT FIRED (DF) PROFILE PLATE SPECIFICATIONS:

DESCRIPTION:
 DIRECT FIRED BURNERS SHALL HAVE PATENTED (US PATENT NO. US6629523B2); SELF-ADJUSTING PROFILE PLATES DESIGNED TO ENSURE PROPER AIR VELOCITY AND PRESSURE DROP ACROSS THE BURNER. PROFILE PLATES SHALL ALLOW BURNERS TO ACHIEVE CLEAN COMBUSTION BY LIMITING BY-PRODUCT LEVELS TO A MAXIMUM OF 5PPM OF CARBON MONOXIDE (CO), AND 0.5PPM OF NITROGEN DIOXIDE (NO2). DIRECT FIRED UNITS SHALL BE CONFIGURED WITH THE BLOWER MOUNTED DOWNSTREAM OF THE BURNER. THIS ARRANGEMENT WILL ENSURE A CONSISTENT AIRFLOW, REGARDLESS OF INLET AIR TEMPERATURE.

APPLICATION:
 SPRING-LOADED BURNER PROFILE PLATES ARE ENGINEERED TO AUTOMATICALLY REACT TO THE MOMENTUM OF A FRESH AIR STREAM, WITHOUT THE NEED FOR ANY MOTORS OR ACTUATORS TO MECHANICALLY ADJUST THEM. WITH THIS FEATURE, ALL DF UNITS ARE DESIGNED FOR DEMAND CONTROL VENTILATION (DCV) REQUIREMENTS.

CERTIFICATIONS:
 ALL PROFILE PLATE ASSEMBLIES SHALL BE INCLUDED IN THE DF UNIT'S ETL LISTING AND COMPLY WITH COMBINED SAFETY STANDARDS ANSI Z83.4 AND CSA 3.7 (NON-RECIRCULATING DF HEATERS) AND ANSI Z83.18 (RECIRCULATING DF HEATERS).

GENERAL CONSTRUCTION:
 -PROFILE PLATES SHALL BE FORMED FROM G90 GALVANIZED STEEL.
 -PROFILE PLATES SHALL VARY IN SIZE PER UNIT.
 -PROFILE PLATES SHALL BE MOUNTED ALONG THE SAME PLANE AS THE DISCHARGE OF THE BURNER.
 -DESIGN SHALL INCORPORATE PROPERLY TORQUED, PERMANENTLY MOUNTED SPRING HINGES.
 -SPRING HINGES SHALL BE MADE FROM PLATED STEEL.

REVISIONS	DESCRIPTION	DATE
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Δ		
Δ		

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 4300 Saint Johns Avenue,
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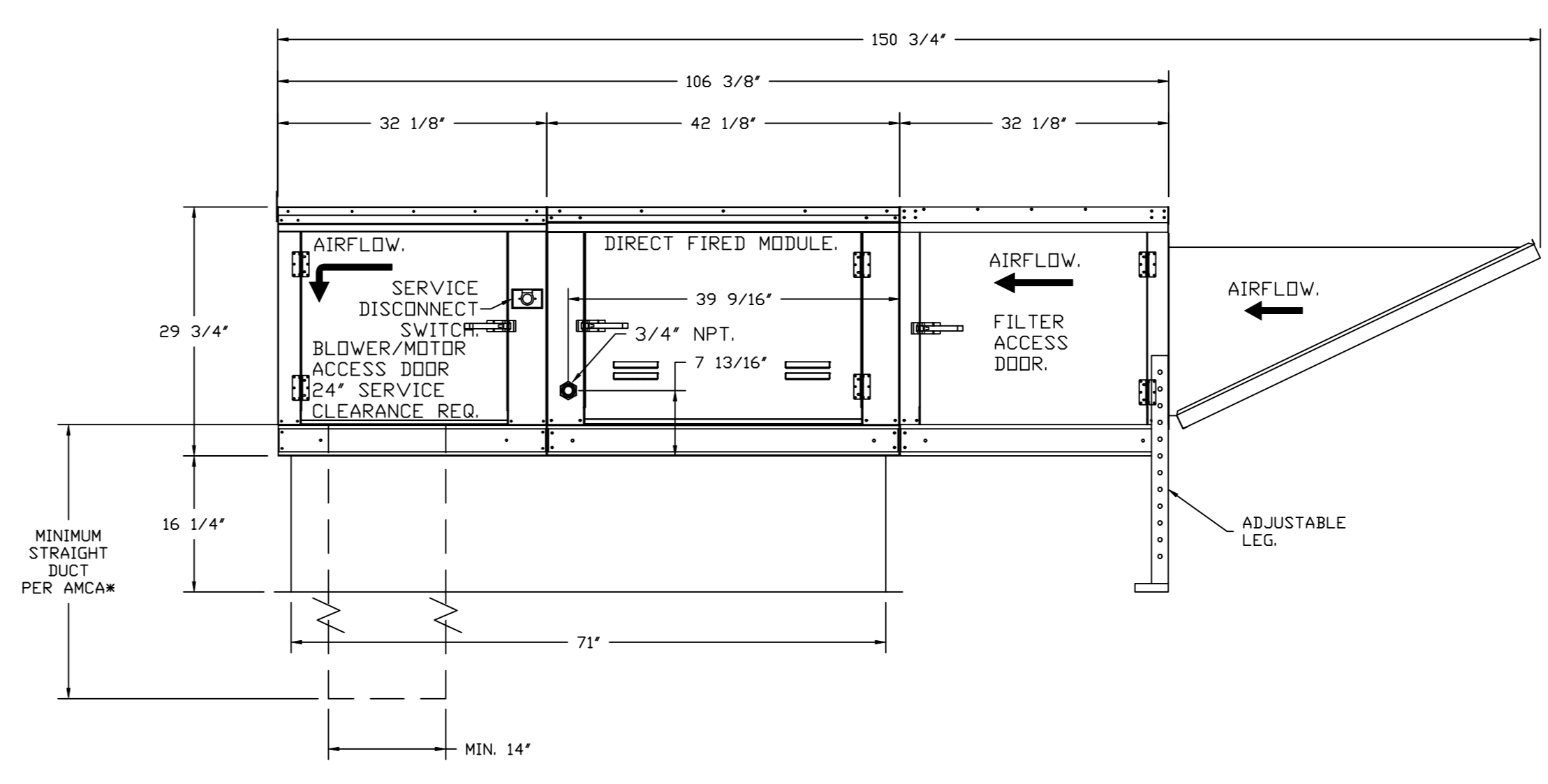
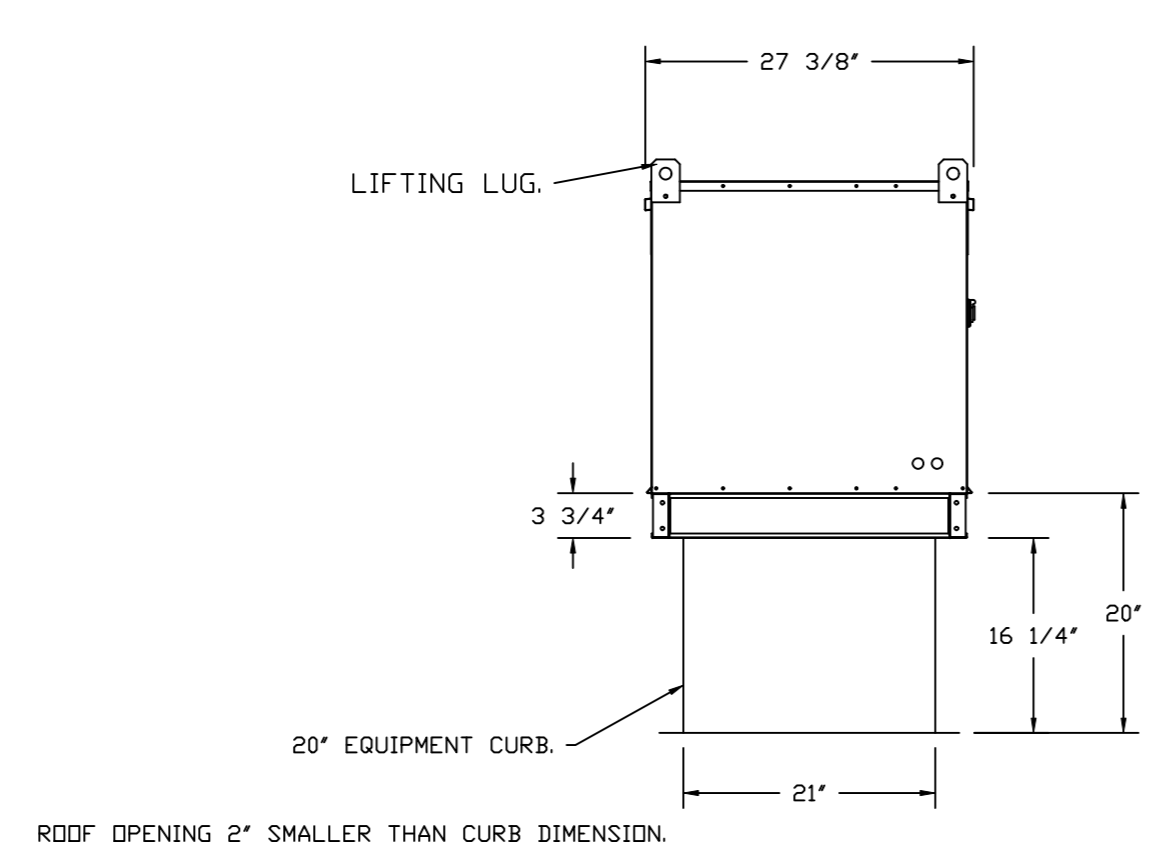
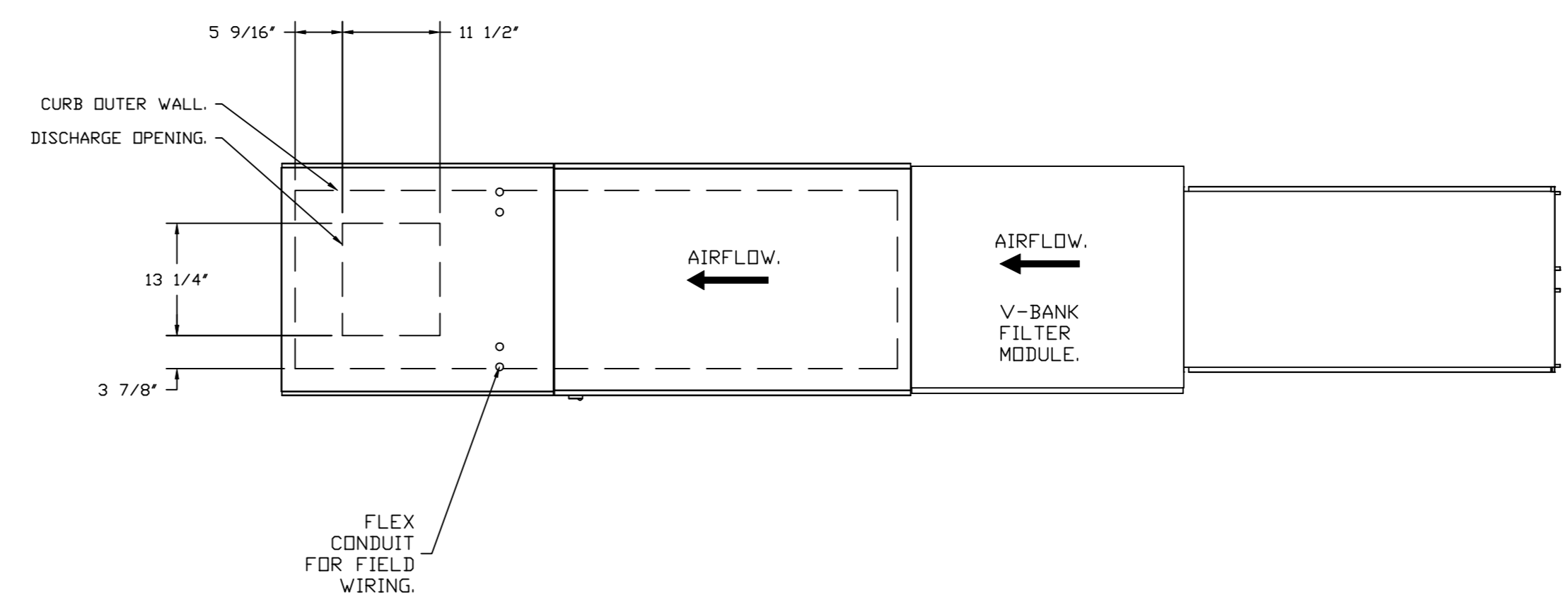
SHEET NO. 5

- FAN #4 EAI-D500-1SD - HEATER (KH-2 HOT WELLS)
1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 15" MIXED FLOW DIRECT DRIVE FAN.
 2. V-BANK TA FILTERS w/INTAKE HOOD WITH EZ FILTERS - OUTDOOR.
 3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.
 4. DOWN DISCHARGE CONSTRUCTION FOR SIZE 1 DIRECT DRIVE AHUS.
 5. GAS PRESSURE GAUGE, 0-30", 25" DIAMETER, 1/4" THREAD SIZE.
 6. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC, 25" DIAMETER, 1/4" THREAD SIZE.
 7. SHIP LODGE GAS STRAINER, TO BE INSTALLED UPSTREAM OF UNIT CONNECTION 3/4" CONNECTION.
 8. MOTORIZED BACK DRAFT DAMPER 16" x 18" FOR SIZE 1 STANDARD & MODULAR HEATER UNITS w/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, TFBIDS ACTUATOR INCLUDED.
 9. MIAMI DADE IMPACT AND WIND LOAD CERTIFICATION *30 / *100 PSF - MIAMI DADE COUNTY PRODUCT CONTROL APPROVED, FLORIDA BUILDING CODE APPROVAL. ROOF MOUNT EXHAUST CURBS UP TO 20' HIGH MUST BE 18 GAUGE ALUMINIZED.
 10. CLOGGED FILTER SWITCH.
 11. ECM WIRING PACKAGE FOR SUPPLY MOTORS WITH PWM SIGNAL FROM ECM03 PREWIRE.
 12. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER SECTION).
 13. 5 YEAR PARTS WARRANTY.

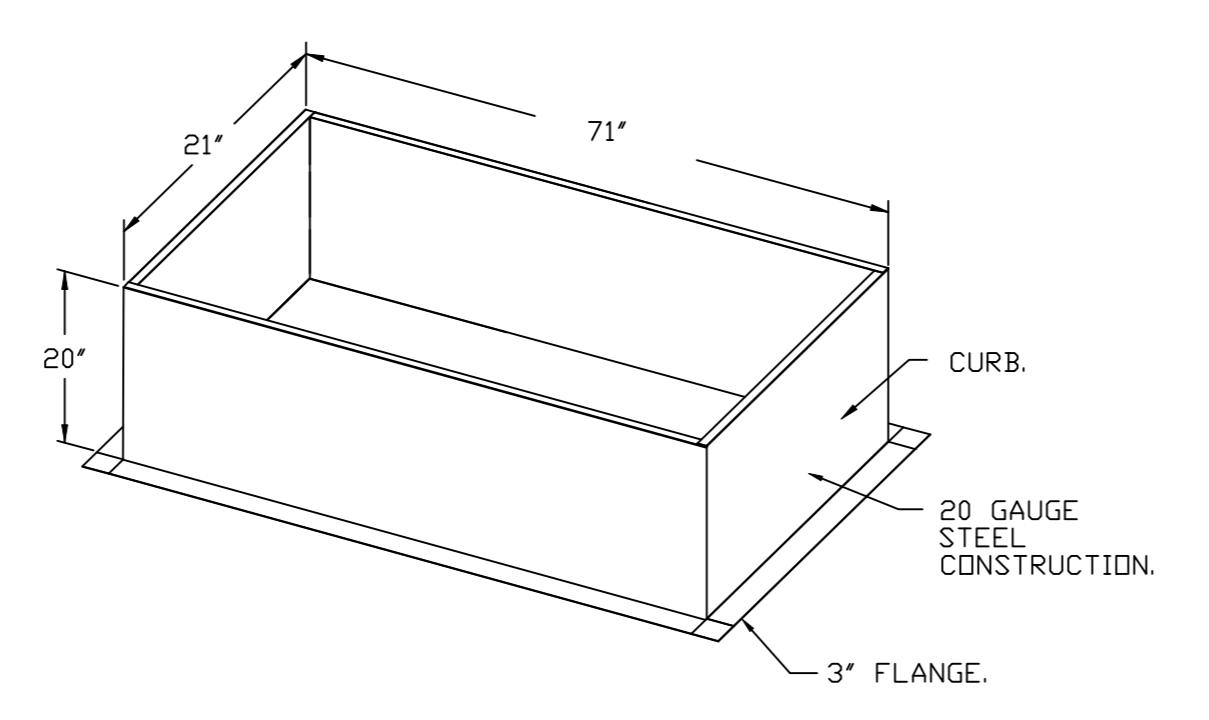
*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE 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 14" x 14".

SUPPLY SIDE HEATER INFORMATION

WINTER TEMPERATURE = 37°F. TEMP. RISE = 38°F.
BTUS CALCULATED OFF ACTUAL AIR DENSITY:
OUTPUT BTUS AT ALTITUDE OF 0.0 FT. = 48716.
INPUT BTUS AT ALTITUDE OF 0.0 FT. = 52953.
OUTPUT BTUS AT ALTITUDE OF 74 FT. = 46886.
INPUT BTUS AT ALTITUDE OF 74 FT. = 52811.



OPTIONS:
- FULL BOTTOM CORNERS.



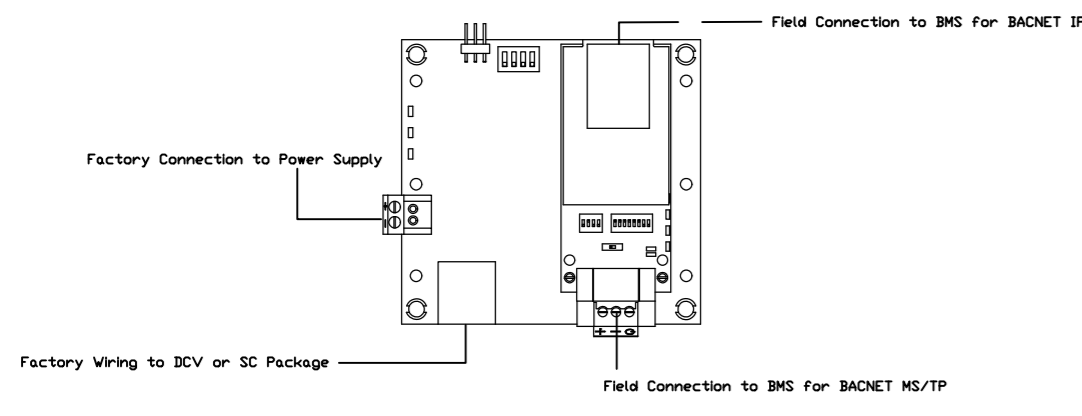
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SHEET NO. 6

ELECTRICAL PACKAGE - JOB#6119534

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	HP	VOLT	FLA	
1	KH-1 Greas	SC-311110MA	WALL UTILITY CABINET RIGHT	FACE MOUNT LEFT SIDE OF HOOD	1 LIGHT 1 FAN	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY	KH-1 Grease Hood	EXHAUST	3	1.500	208	6.6
2	KH-2 Hot W	SC-21111000	WALL MOUNT IN SS BOX	FACE MOUNT LEFT SIDE OF HOOD	1 LIGHT 1 FAN	SMART CONTROLS BASIC	KH-2 Hot Wells	EXHAUST	1	0.500	208	3.8
3	KH-3 Dish	SC-21011000	WALL MOUNT IN SS BOX	FACE MOUNT LEFT SIDE OF HOOD	1 LIGHT 1 FAN	SMART CONTROLS BASIC	KEF-3 Dish	EXHAUST	1	0.333	208	2.5

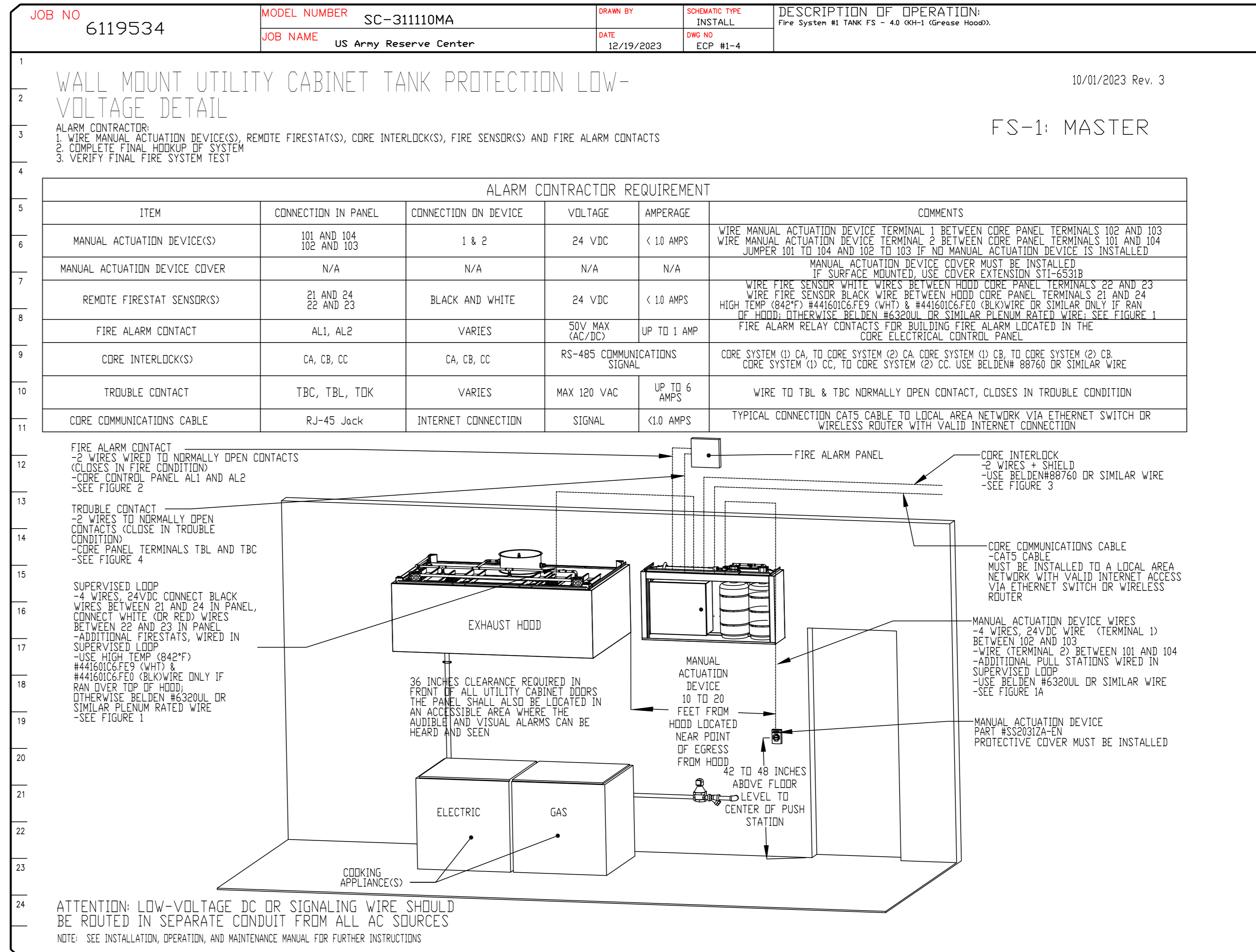
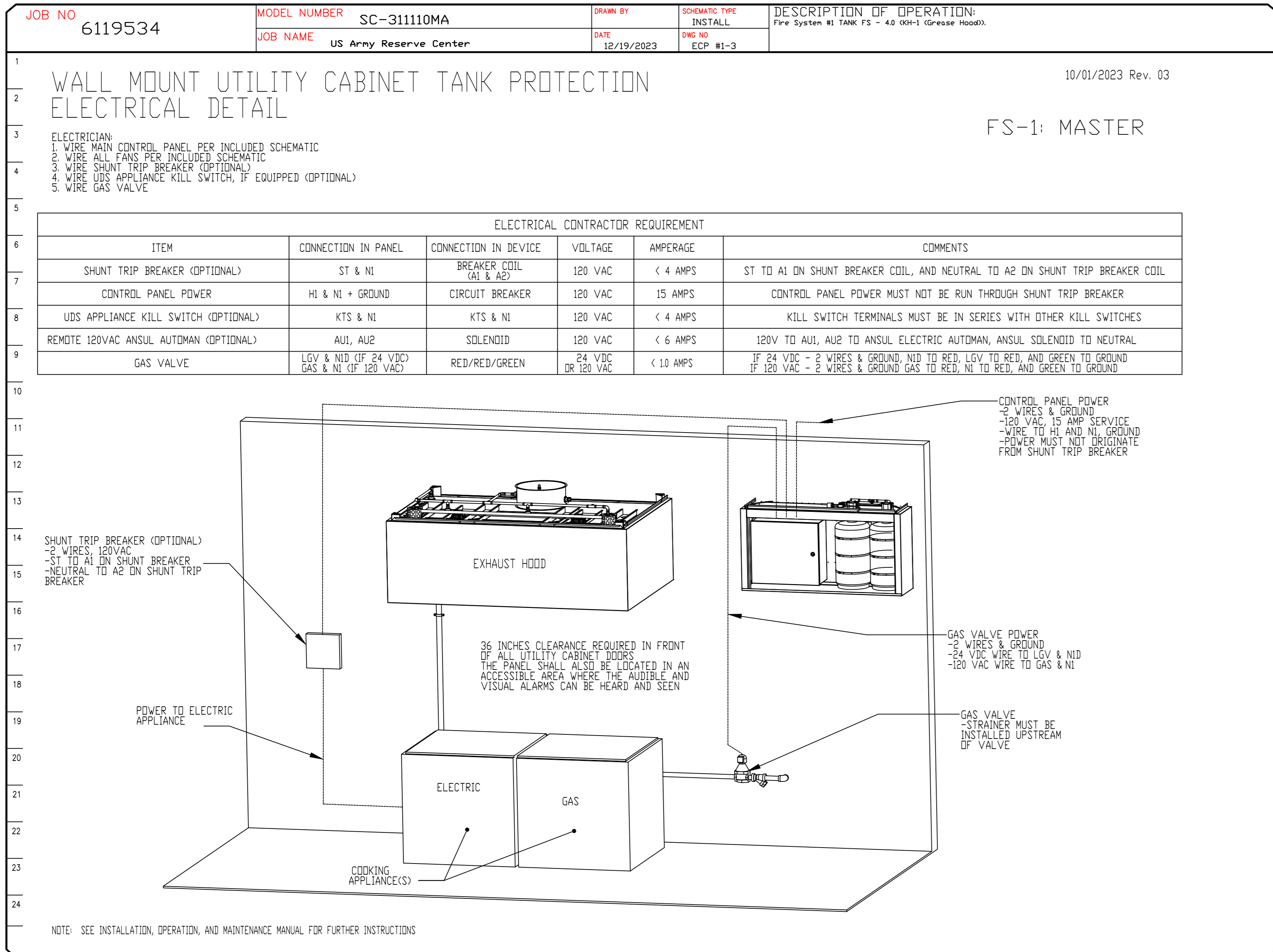
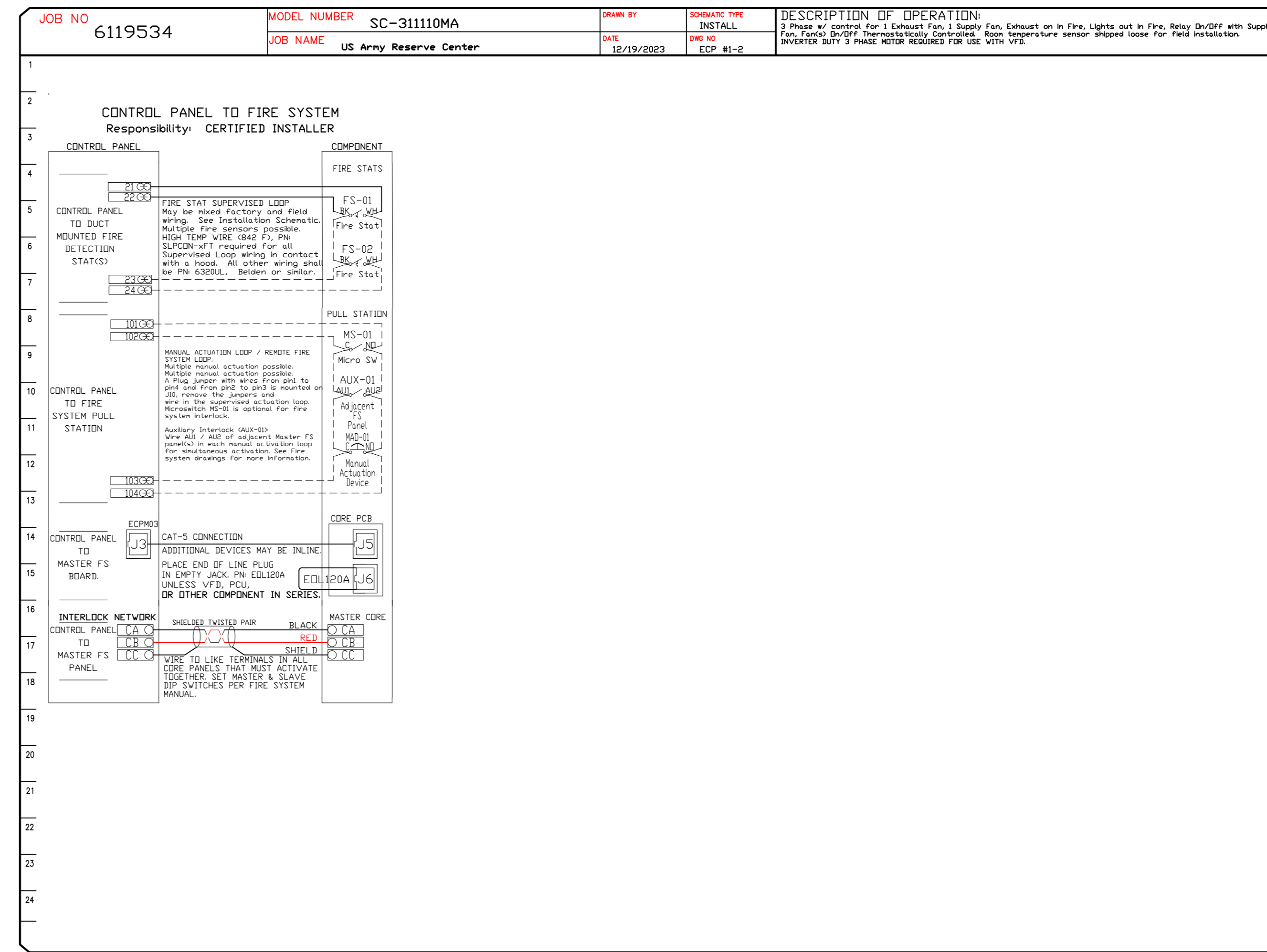
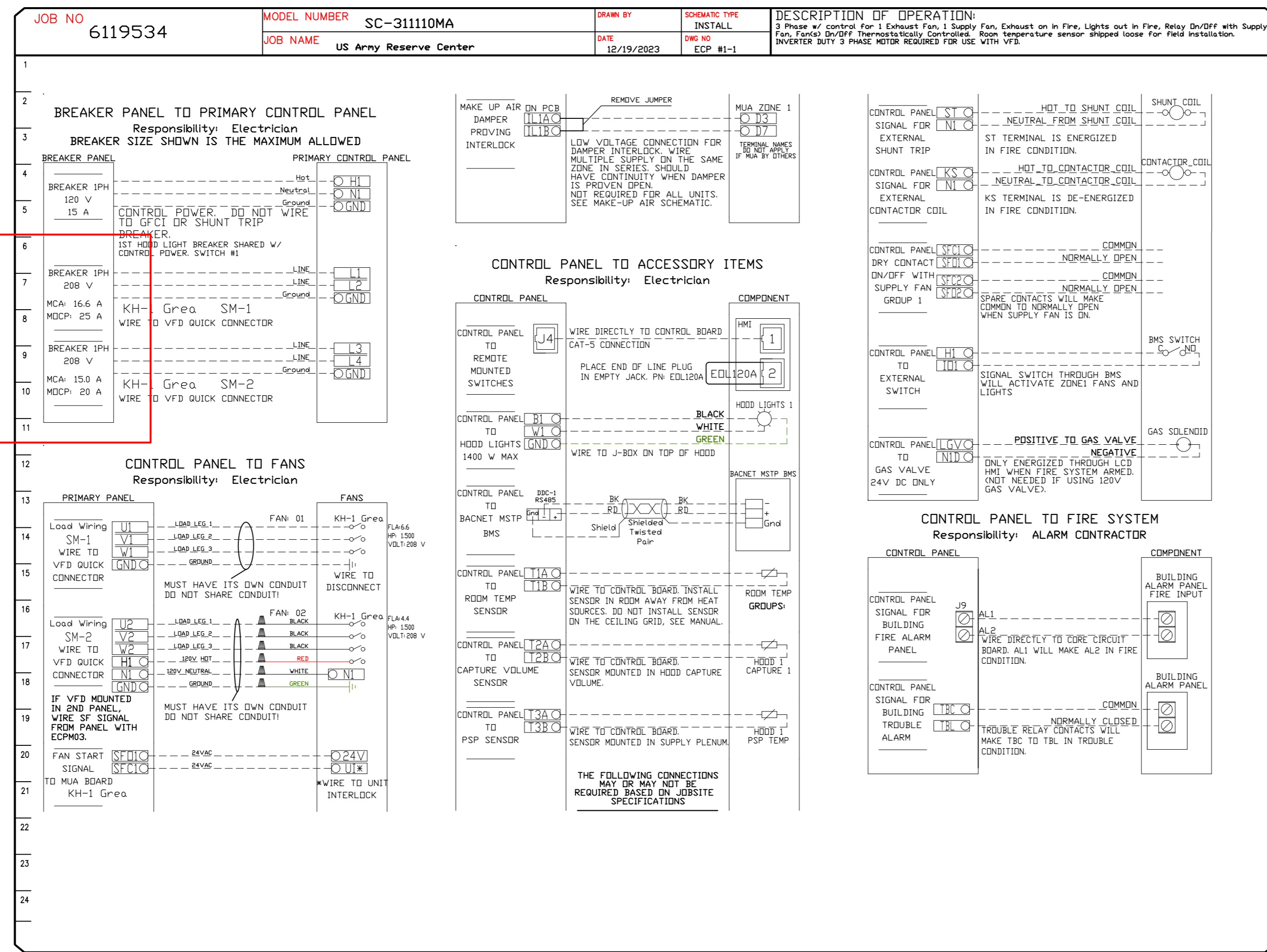


BACNET Interface for DCV and SC Packages

BACNET Interface for Hood Control Panel Specifications:
 - Microprocessor-based Hood Controls support communications to an external Building Management System through a BTL linked gateway (BACNET IP and MS/TP).
 - The Hood Control Panel communicates real time data from sensors and equipment status to the Building Management System. The Hood Control Panel also allows the Building Management System to control Fans, lights and wash cycles.
 - The monitoring and controlling points for Hood Smart Controls and Demand Control Ventilation Systems are listed below.

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	Controler Faults	MONITOR
Fan Amperage	MONITOR	Fan Status	MONITOR
Fan Power	MONITOR	PCV Faults	MONITOR
VFD Faults	MONITOR	PCV Filter Clog Percentages	MONITOR
Controler Faults	MONITOR	Fan Condition	MONITOR
Fan Status	MONITOR	COSE Fire System	MONITOR
PCV Faults	MONITOR	Building Pressures	MONITOR & CONTROL
PCV Filter Clog Percentages	MONITOR	PCV Button(s)	MONITOR & CONTROL
Fire Condition	MONITOR	Lights Button(s)	MONITOR & CONTROL
COSE Fire System	MONITOR	Wash Button	MONITOR & CONTROL
Building Pressures	MONITOR		
Prep Time Button	MONITOR & CONTROL		
Pana Button	MONITOR & CONTROL		
Lights Button	MONITOR & CONTROL		
Wash Button	MONITOR & CONTROL		



REVISIONS

NO.	DESCRIPTION	DATE

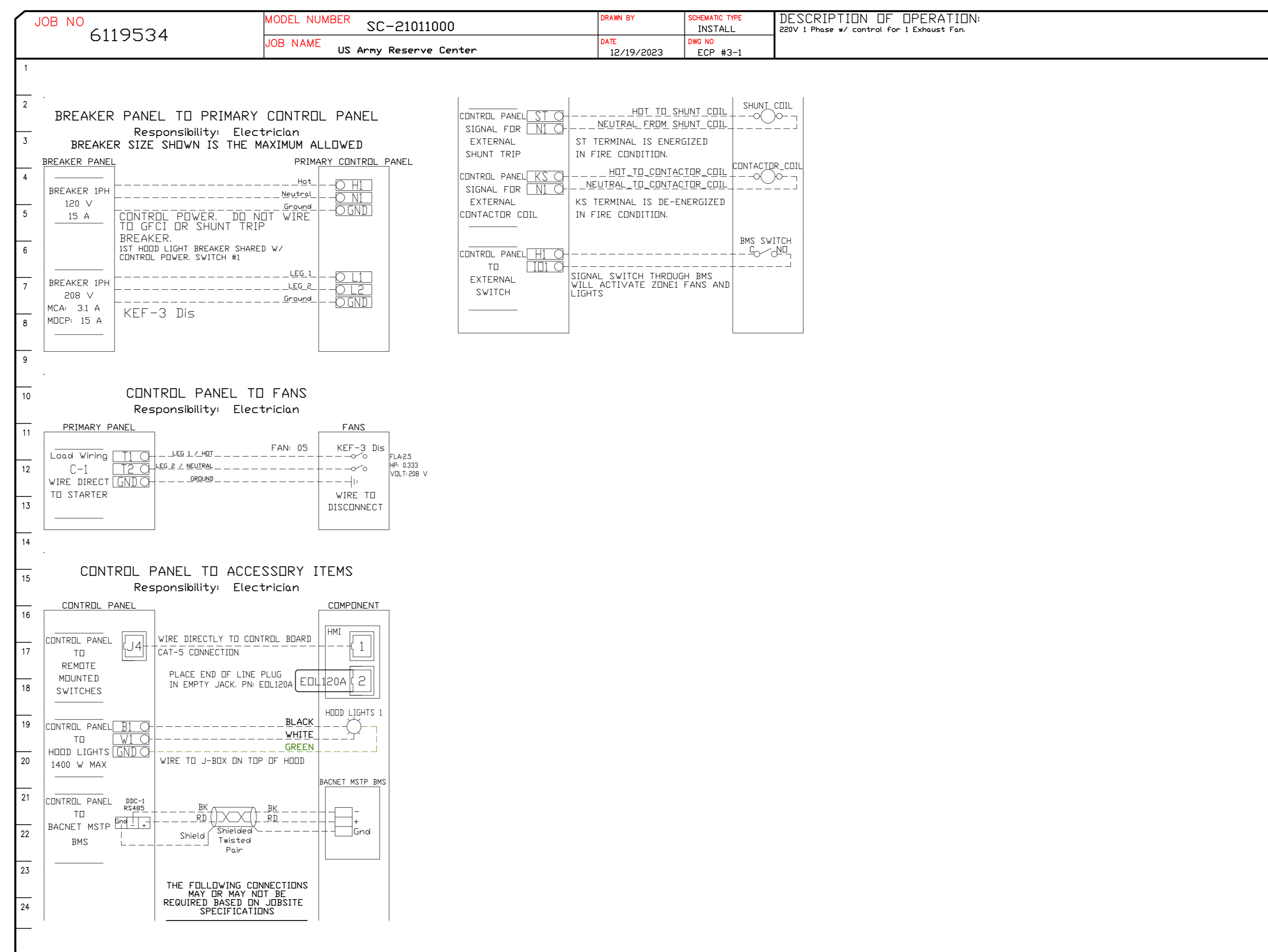
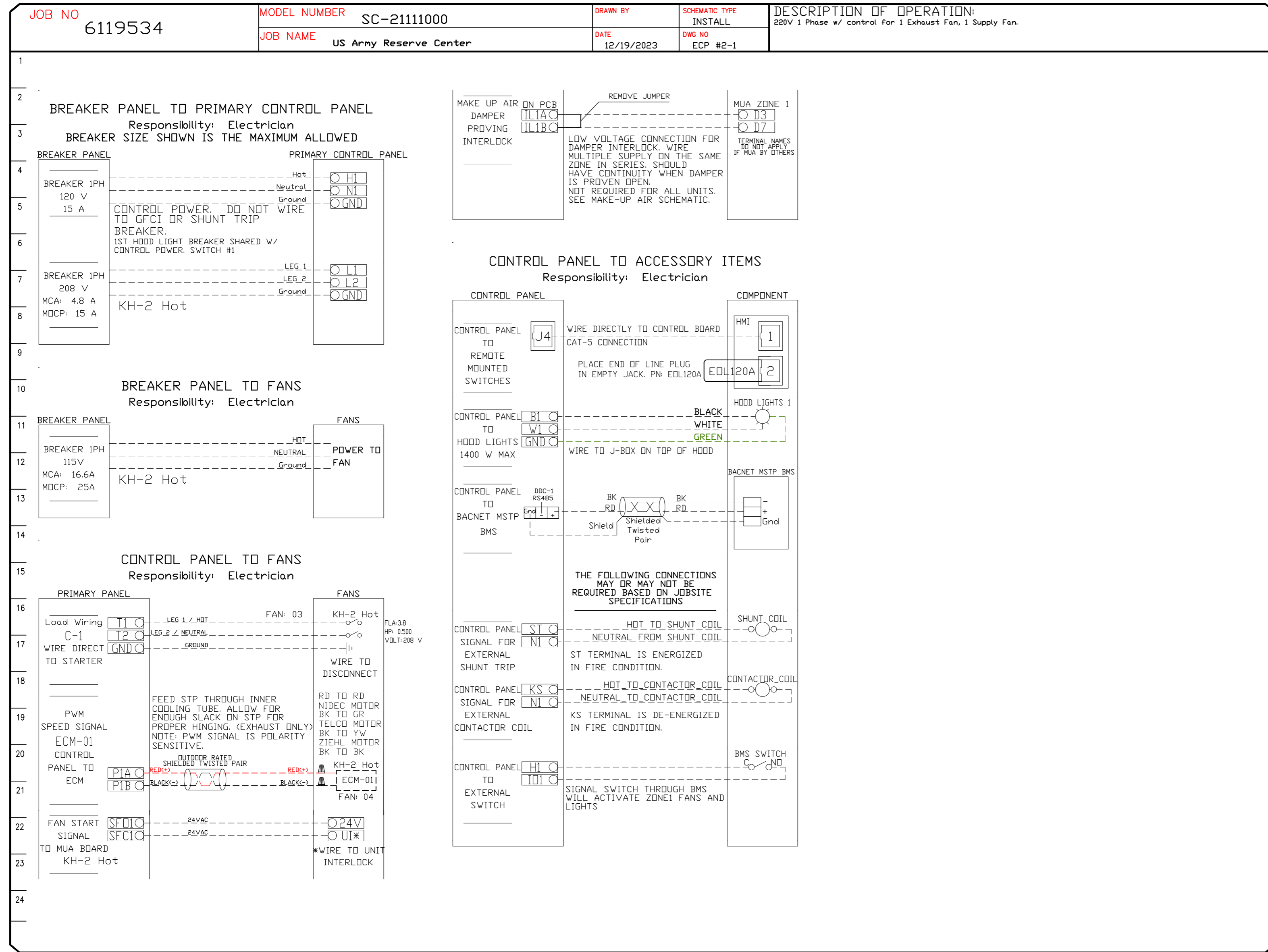
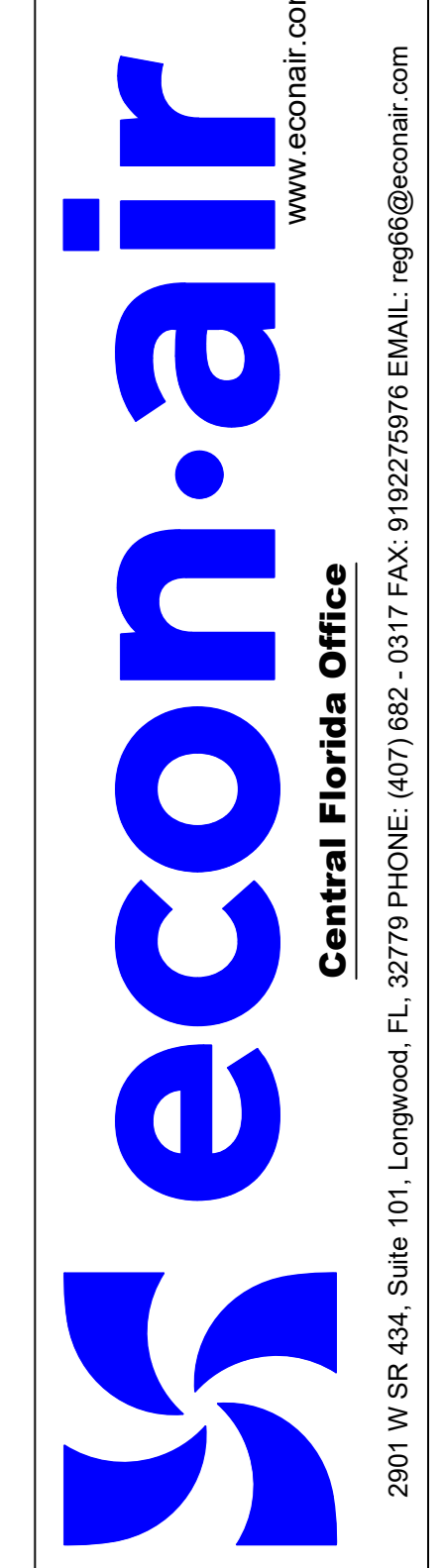
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