

FOR QUESTIONS, CALL THE  
Highwoods Group  
REGION 40  
PHONE: (919) 875-0420  
EMAIL: reg40@captiveaire.com

**PATENT NUMBERS**

AC-PSP (UNITED STATES) - US PATENT 7963830 B2.  
AC-PSP WALL (CANADA) - CA PATENT 2820509.  
AC-PSP ISLAND (CANADA) - CA PATENT 2520330.

**HOOD INFORMATION - JOB#5600858**

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)						MUA CFM	AC CFM	HOOD CONSTRUCTION	HOOD CONFIG	
										WIDTH	LENG	HEIGHT	DIA	CFM	VEL				SP	END TO END
1		5424 ND-2-ACPSP-F	CAPTIVEAIRE	13' 0"	600 DEG	I	HEAVY	225	2925	10"	14"	4"	1462	1504	-0.603"	1775	880	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 TYPE	SIZE			ELECTRICAL MODEL #	SWITCHES QUANTITY
1		CAPTRATE SOLID FILTER	9	20"	16"	85% SEE FILTER SPEC	9	L55 SERIES E26	NO	RIGHT	12"x54"x24"	TANK FS	4.0/4.0	SC-311110MA	1 LIGHT 1 FAN	YES	1297 LBS

**HOOD OPTIONS**

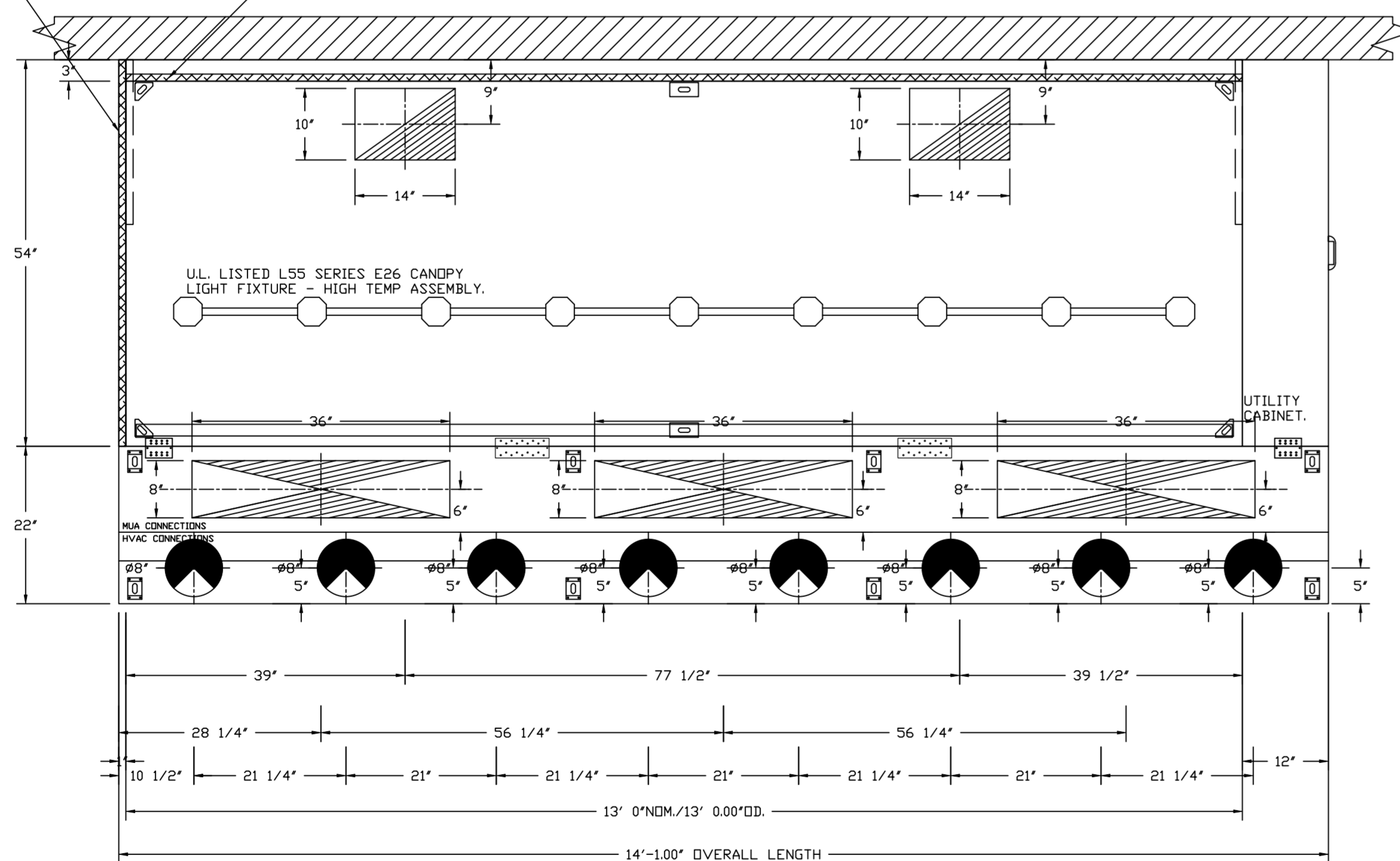
HOOD NO	TAG	OPTION
1		FIELD WRAPPER 10.00' HIGH FRONT, LEFT, RIGHT. LEFT END STANDOFF (FINISHED) 1' WIDE 54' LONG INSULATED. RIGHT QUARTER END PANEL 23' TOP WIDTH, 0' BOTTOM WIDTH, 23' HIGH 430 SS. LEFT QUARTER END PANEL 23' TOP WIDTH, 0' BOTTOM WIDTH, 23' HIGH 430 SS. INSULATION FOR BACK OF HOOD. RISER SENSOR INSTALL 6IN PLEN. FULL DIMENSION HANGING BRACKET - FRONT.

**PERFORATED SUPPLY PLENUM(S)**

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)			
							WIDTH	LENG	DIA	CFM
1		Front	169"	22"	6"	MUA	8"	36"	591	0.135"
						MUA	8"	36"	591	0.135"
						MUA	8"	36"	591	0.135"
						AC	8"	110	0.039"	
						AC	8"	110	0.039"	
						AC	8"	110	0.039"	
						AC	8"	110	0.039"	
						AC	8"	110	0.039"	
						AC	8"	110	0.039"	
						AC	8"	110	0.039"	

1" LAYER OF INSULATION FACTORY INSTALLED IN 1.00' END STANDOFF MEETS 0" REQUIREMENTS CLEARANCE TO COMBUSTIBLE SURFACES.

1" LAYER OF INSULATION FACTORY INSTALLED IN INTERNAL BACK STANDOFF. MEETS 0 INCH REQUIREMENTS FOR CLEARANCE TO COMBUSTIBLE SURFACES.



PLAN VIEW - HOOD #1  
13' 0.00" LONG 5424ND-2-ACPSP-F  
NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12' AND LONGER.

ACPSP SHIPS LOOSE FOR FIELD INSTALLATION

**SPECIFICATION: CAPTRATE® GREASE-STOP® SOLID FILTER**

THE CAPTRATE GREASE-STOP SOLID 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.

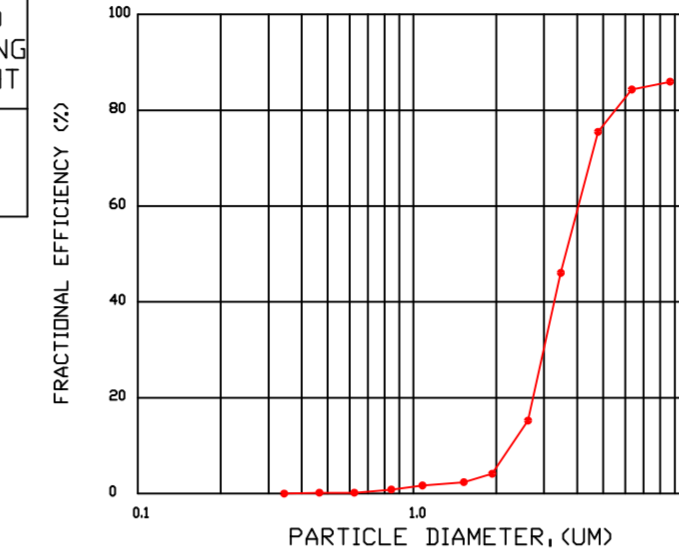
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

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

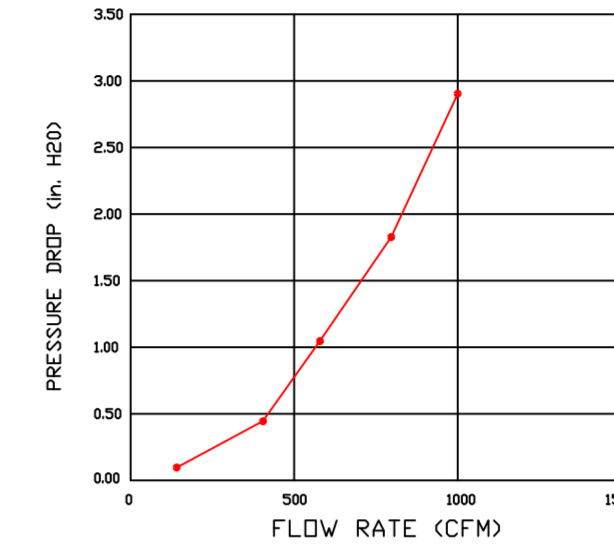
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

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

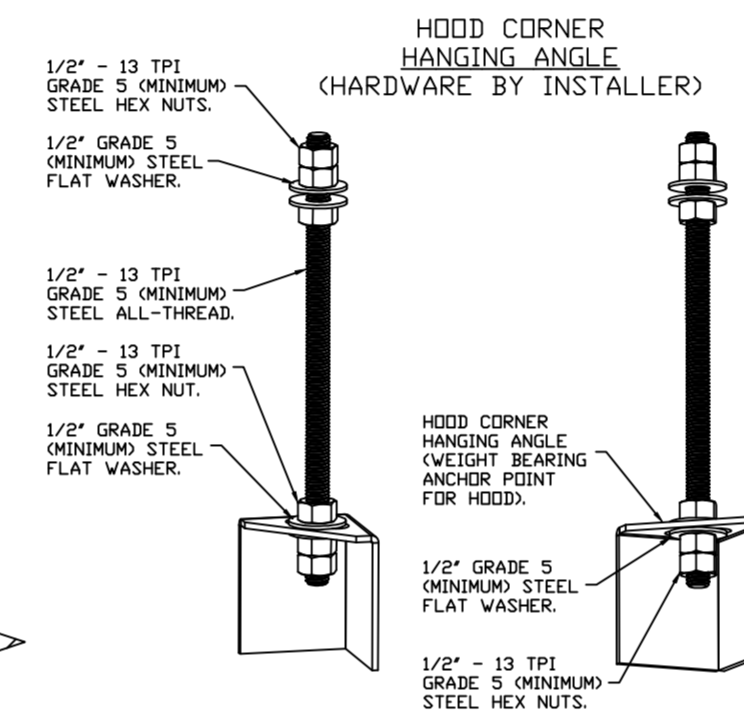
EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE

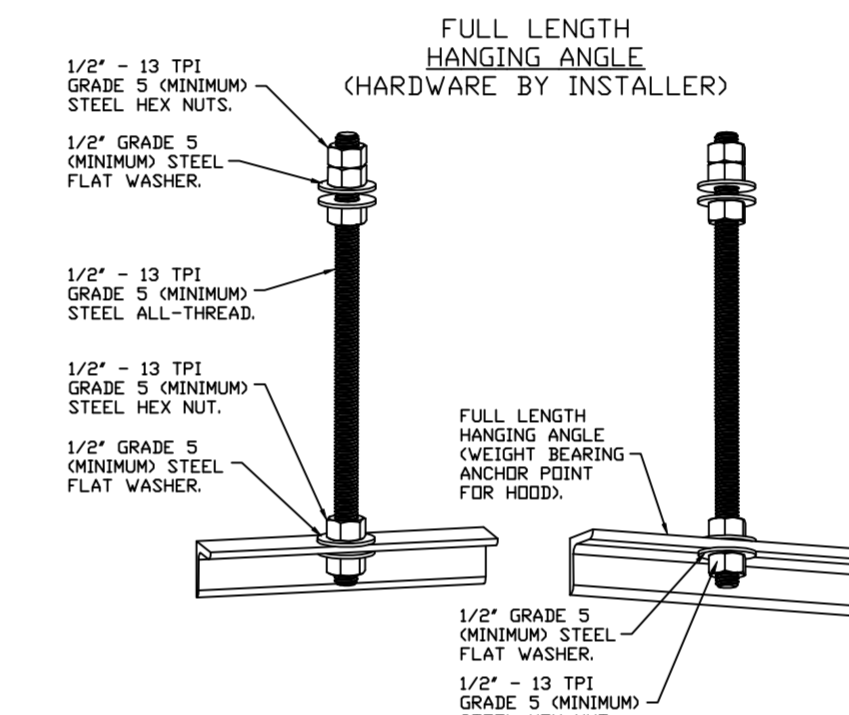


CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:  
NFPA #96.  
NSF STANDARD #2.  
UL STANDARD #1046.  
INT. MECH. CODE (IMC).  
ULC-S649.



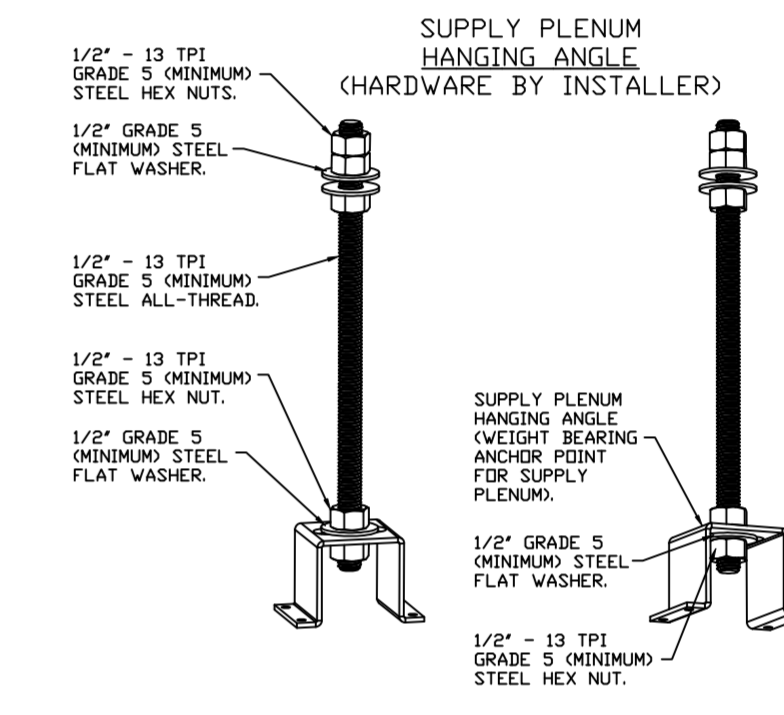
**ASSEMBLY INSTRUCTIONS**

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.



**ASSEMBLY INSTRUCTIONS**

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**ASSEMBLY INSTRUCTIONS**

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**REVISIONS**

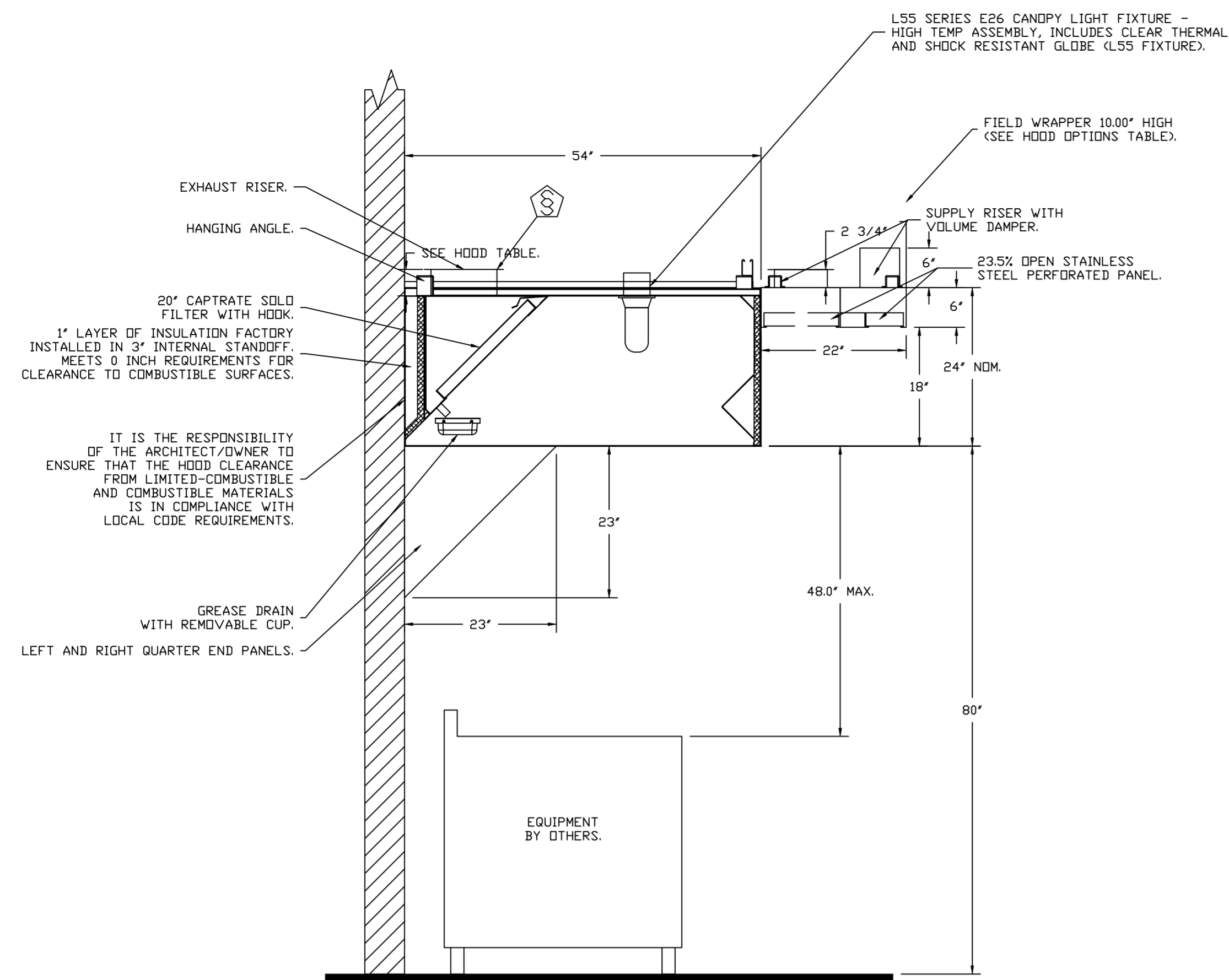
DESCRIPTION	DATE

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4641 Paragon Park Rd., Raleigh, NC 27616 PHONE: (919) 875-0420 FAX: (919) 875-0577 EMAIL: reg40@captiveaire.com

**CHIPOTLE KING GEORGE HUB #4546**  
**SURREY, BC, V3T 4Y3**

DATE: 11/18/2022  
DWG.#: 5600858  
DRAWN BY: JMB-40  
SCALE: 3/4" = 1'-0"  
MASTER DRAWING

**SHEET NO.**  
1



SECTION VIEW - MODEL 5424ND-2-ACPSP-F  
HOOD - #1

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	
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SHEET NO.  
2

**FIRE SYSTEM INFORMATION - JOB#5600858**

FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0	36	FIRE CABINET RIGHT	RIGHT, HOOD 1

**GAS VALVE(S)**

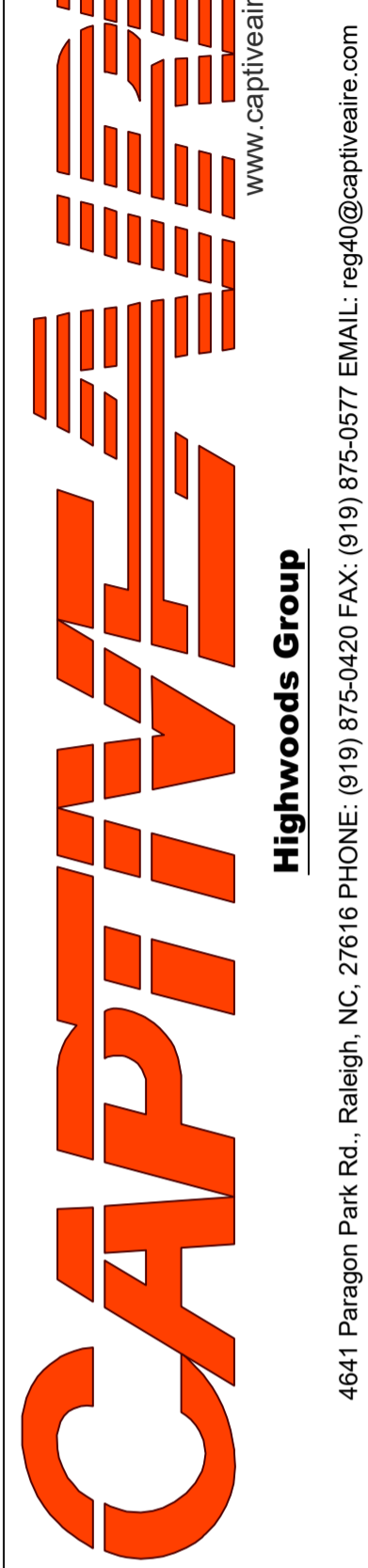
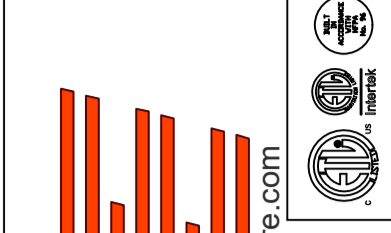
FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL	1.000	CAPTIVEAIR SYSTEMS

**FIRE SYSTEM PARTS LIST KEY**

FIRE SYSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
1		0 - 0 - 12-F28021-32144-0T-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO, CLOSE ON TEMP RISE AT 360°F.	2	0
		0 - 0 - 87-120042-001 SECONDARY ACTUATOR VALVE (SVA) - SINGLE ACTUATOR, REQUIRES PRIMARY RELEASE ACTUATOR, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-120045-001 HOSE, SECONDARY ACTUATOR HOSE, 7.5' BRAIDED STAINLESS STEEL, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-300001-001 TANK - PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	2	0
		0 - 0 - 87-300030-001 PRIMARY ACTUATOR KIT (PAK) - ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-300152-001 HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION.	8	0
		0 - 0 - 9055455PC PRO PRESS 1/2 PRESS X PRESS 90 ELBOW LD.	8	0
		0 - 0 - 9097200PC PRO PRESS PC611 1/2 PRESS TEE LD.	8	0
		0 - 0 - 98694A115 HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	4	0
		0 - 0 - A0034332 JUNCTION BOX FOR MANUAL PULL STATION. 1.5' DEEP BACK BOX, RED COLOR.	1	0
		0 - 0 - B1145 3/8" BLACK IRON 90 ELL.	4	0
		0 - 0 - DATANKLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - TANK STRAP TANK STRAP - USED FOR TANK FIRE SUPPRESSION.	6	0
		0 - 0 - TFS-UCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - WK-283952-000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	2	0
		16 - 16 - 79210 1/2" X 3/8" NPT MALE ADAPTER, VIEGA.	9	0
		16 - 16 - QL-F NOZZLE - TANK PROTECTION APPLIANCE COVERAGE NOZZLE (INCLUDES METAL BLOW OFF CAP, LANYARD, USED WITH CHROME-PLATED PIPE)- 4 FLOW POINTS.	9	0
		26 - 26 - QSA-3/8 QUIK SEAL - 3/8" (UL).	9	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	

**REVISIONS**

DESCRIPTION	DATE



CHIPOTLE KING GEORGE HUB #4546  
 SURREY, BC, V3T 4Y3

**DATE:** 11/18/2022

**DWG.#:**  
5600858

**DRAWN BY:** JMB-40

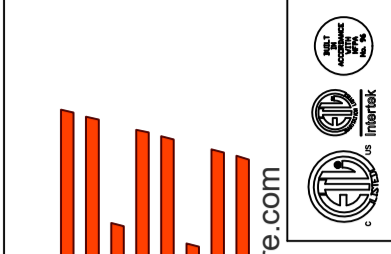
**SCALE:**  
3/4" = 1'-0"

**MASTER DRAWING**

**SHEET NO.**  
3

**REVISIONS**

DESCRIPTION	DATE



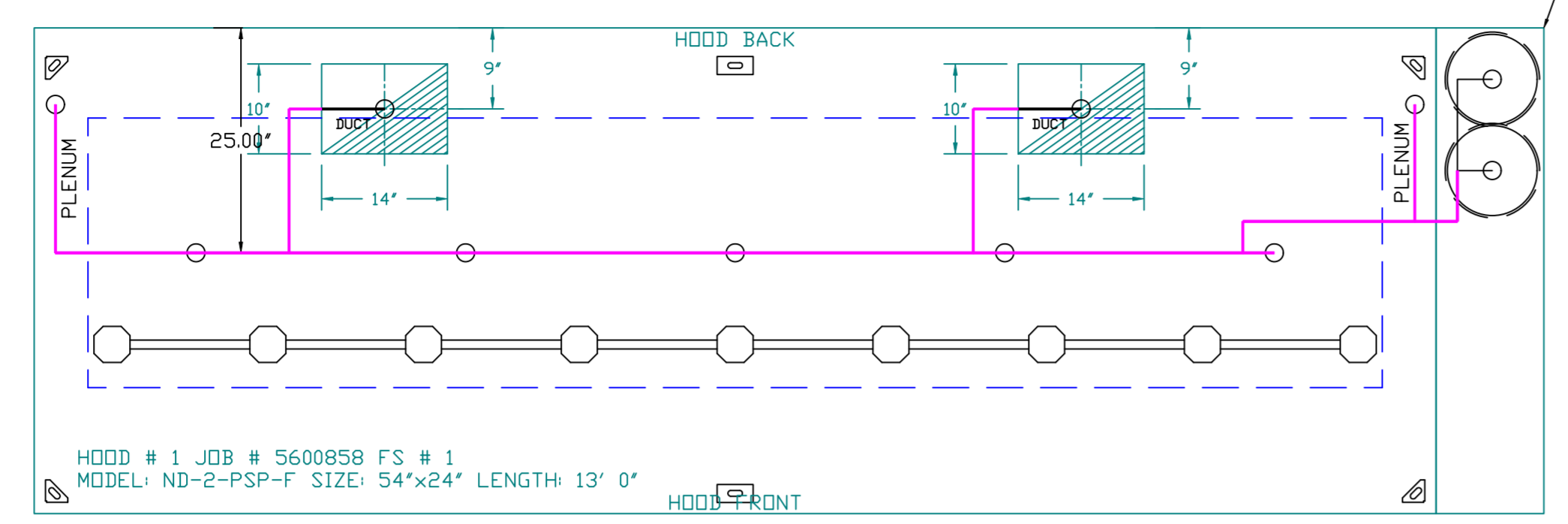
**CAPTIVE FIRE**  
 Highwoods Group  
 4641 Paragon Park Rd., Raleigh, NC 27616 PHONE: (919) 875-0420 FAX: (919) 875-0577 EMAIL: reg@captivfire.com

CHIPOTLE KING GEORGE HUB #4546  
 SURREY, BC, V3T 4Y3

DATE: 11/18/2022  
 DWG.#: 5600858  
 DRAWN BY: JMB-40  
 SCALE: 3/4" = 1'-0"  
 MASTER DRAWING

SHEET NO. 4

SYSTEM REQUIRES A MINIMUM OF 7 FT OF EQUIVALENT PIPE LENGTH BETWEEN TANK AND NEAREST APPLIANCE NOZZLE FOR MOST APPLIANCES. EACH 90 DEGREE ELBOW ADDS 1.3 FT OF EQUIVALENT LENGTH. SEE MANUAL FOR DETAILS



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

JOB #: 5600858.  
 JOB NAME: CHIPOTLE KING GEORGE HUB #4546.

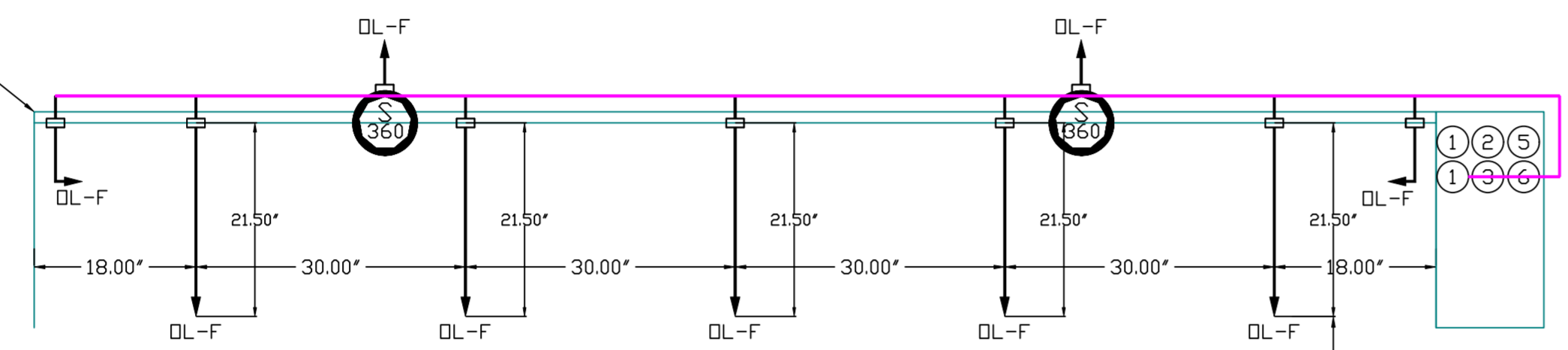
SYSTEM SIZE: TANK-SP-2 TOTAL FP REQUIRED: 36.  
 HOOD # 1 13' 0.00" LONG x 54" WIDE x 24" HIGH.  
 RISER # 1 SIZE: 10' x 14".  
 RISER # 2 SIZE: 10' x 14".  
 HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.

- 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.

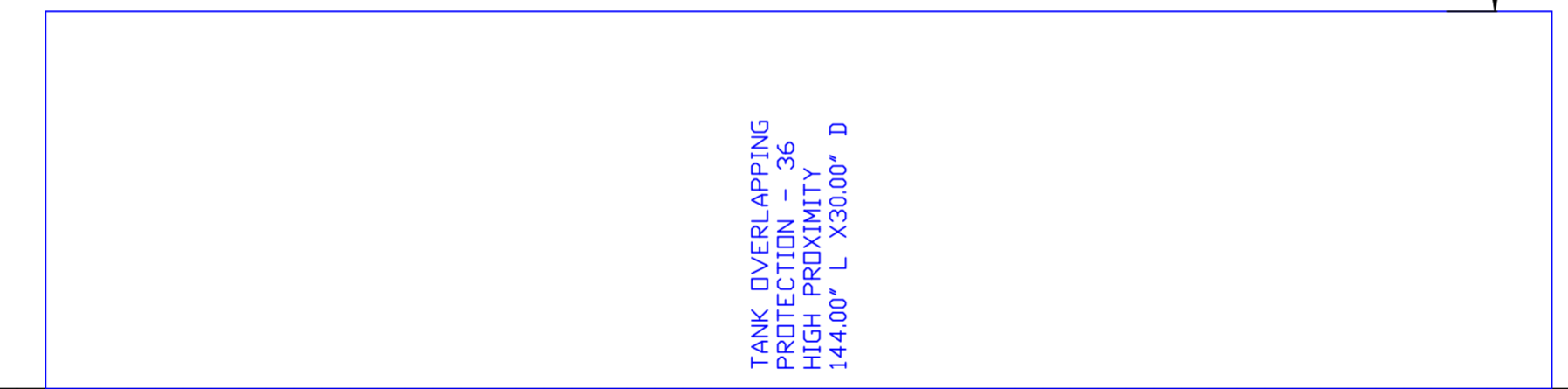
**LEGEND - FIRE CABINET TANK SYSTEM**

- 4 GALLON TANK.
- PRIMARY ACTUATOR RELEASE.
- SECONDARY ACTUATOR RELEASE.
- PRESSURE SUPERVISION SWITCH.
- PRIMARY HOSE ASSEMBLY.
- SECONDARY HOSE ASSEMBLY.
- REMOTE MANUAL ACTUATION DEVICE.

FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.



NOZZLE HEIGHT 35-50" FROM COOKING SURFACE. (45.25")



INCLUDES: FIELD INSTALLATION AND HOOKUP DURING NORMAL BUSINESS HOURS BY CERTIFIED INSTALLERS ONLY IN THE LOCATION NOTED ABOVE, TWO SITE VISITS ONLY (ONE VISIT TO SET PULL STATION & SYSTEM HOOKUP AND ONE VISIT FOR ONE TEST); ADDITIONAL VISITS WILL RESULT IN ADDITIONAL CHARGES). ONE MECHANICAL OR ELECTRICAL GAS VALVE PER SYSTEM AT A MAXIMUM SIZE OF 2", PERMIT, AND SYSTEM TEST.  
 EXCLUDES: UNION LABOR & PREVAILING WAGE (LABOR & WAGES WILL BE ADDED IF APPLICABLE), GAS VALVE INSTALLATION, ELECTRICAL HOOKUP AND CONNECTIONS, HANGING OF FIRE CABINET, SHUNT TRIP, HANDHELD EXTINGUISHER(S), ON-SITE RE-PIPING DUE TO EQUIPMENT LAYOUT CHANGES.

GAS VALVE FOR FS#1

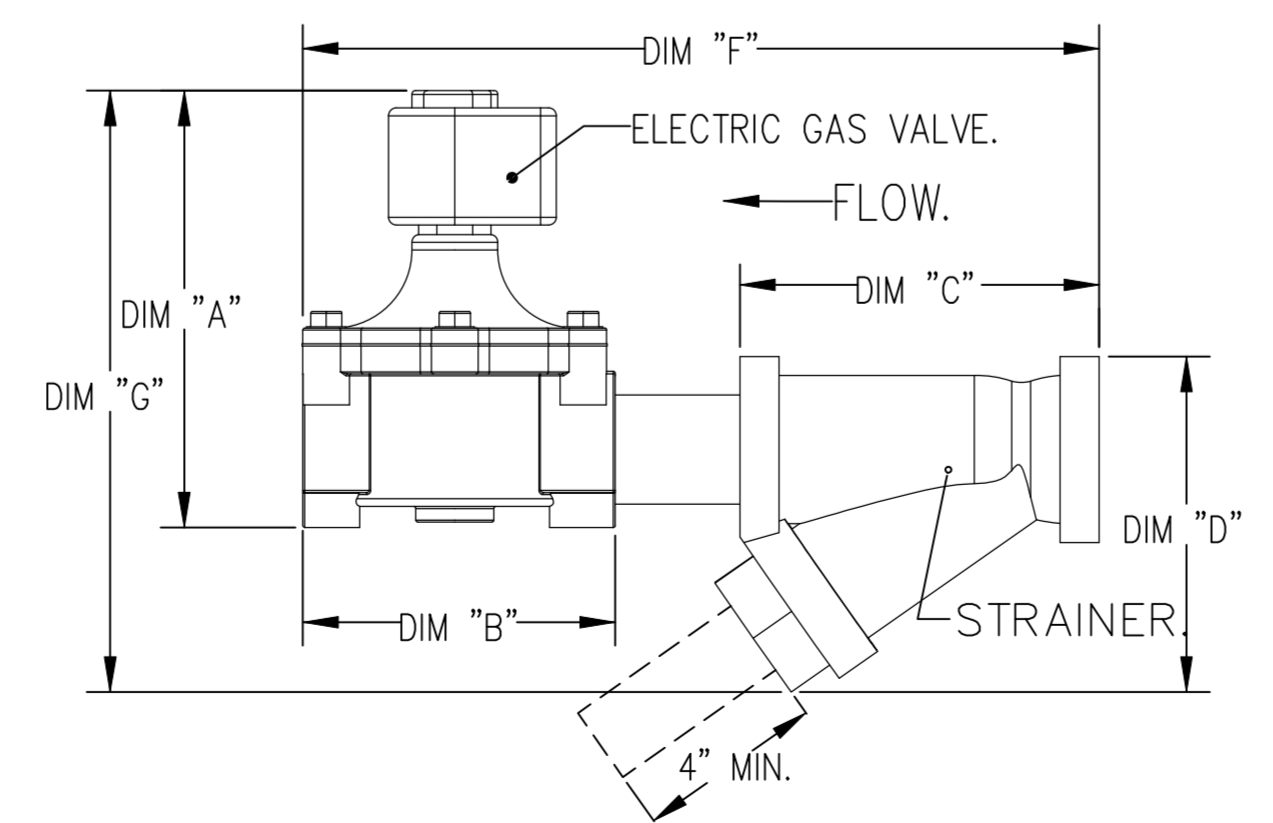
GAS VALVES AND STRAINERS																
TYPE	SIZE	VOLTAGE	GAS VALVE SIZING			GAS VALVE DIMENSIONS						INSTALLATION	PART NUMBERS			
			MIN. INLET PRESSURE	MAX. INLET PRESSURE	FLOW AT 1 IN.W.C. DROP NATURAL GAS	FLOW AT 1 IN.W.C. DROP PROPANE	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"		DIM "G"	MOUNTING ORIENTATION	GAS VALVE PART NUMBER	STRAINER PART NUMBER
ELECTRICAL	1"	120 VAC	0 PSI (0 IN.W.C.)	5 PSI (138 IN.W.C.)	1,132,300 BTU/HR	734,733 BTU/HR	6-15/16"	5-15/16"	4-7/8"	5-3/16"	12-13/16"	10-11/16"	HORIZONTAL/VERTICAL	8214250	4417K65	(SC)EGVA1

**ALL GAS VALVES/STRAINERS**

PROPER CLEARANCE MUST BE PROVIDED IN ORDER TO SERVICE THE STRAINERS A MINIMUM OF 4" CLEARANCE DISTANCE MUST BE PROVIDED AT THE BASE OF THE STRAINER CUSTOMER MUST VERIFY BTU CONSUMPTION AS WELL AS PRESSURE RATING SPECIFIC GRAVITY OF NATURAL GAS = 0.64, SPECIFIC GRAVITY OF LP = 1.52.

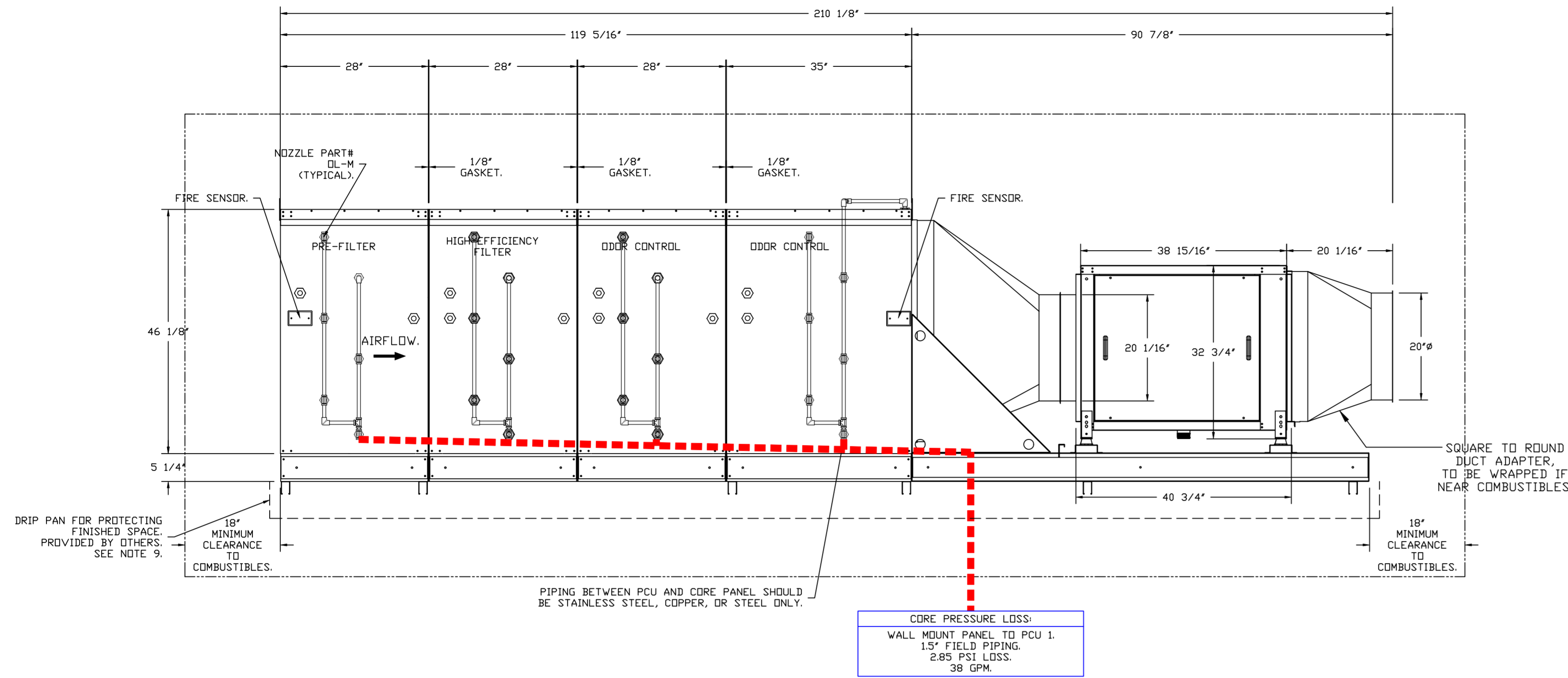
**CALCULATIONS**

TO CALCULATE GAS FLOW FOR OTHER THAN 1 IN.W.C. PRESSURE DROP  
 NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP) X NEW PRESSURE DROP<sup>0.5</sup>  
 TO CALCULATE GAS FLOW FOR OTHER THAN 0.64 SPECIFIC GRAVITY  
 NEW BTU/HR = (BTU/HR AT 0.64) X (0.64 / NEW SPECIFIC GRAVITY)<sup>0.5</sup>



**POLLUTION CONTROL UNIT FIRE SYSTEM**

FAN #1 SIF20DD-HESS-UL762 - EXHAUST FAN (PCU-1) - POLLUTION CONTROL UNIT WITH CORE PROTECTION FIRE SYSTEM INSTALLED. INCLUDES STEEL PRE FILTER MODULE, HIGH EFFICIENCY MERV 15 FILTER MODULE, AND DUAL DDR CONTROL MODULES PREPARED WITH 20 DL-M NOZZLES AND INCLUDES DOWNSTREAM PROTECTION. ELECTRIC FIRE DETECTOR AND NOZZLES ARE INCLUDED.



--- FIELD PIPING.

PCU CORE WATER FLOW SUMMARY			
	PIPE DIAMETER	MINIMUM FLOW RATE (GPM)	MINIMUM PRESSURE DROP (PSI)
Field Piping Wall Mount Panel to PCU 1	1.5	38	2.85
PCU Internal Piping	0.375	38	20

TOTAL SYSTEM INLET REQUIREMENTS		
	MINIMUM FLOW RATE (GPM)	MINIMUM PRESSURE (PSI)
TOTAL CORE INLET REQUIREMENTS	38	22.85

\* OPERATING PRESSURE RANGE AT CORE PANEL GAUGE IS 22.85 TO 70 PSI. MAXIMUM STATIC PRESSURE IS 125 PSI.

**REVISIONS**

DESCRIPTION	DATE

**CAPTIVE**

Highwoods Group

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CHIPOTLE KING GEORGE HUB #4546

SURREY, BC, V3T 4Y3

DATE: 11/18/2022

DWG.#: 5600858

DRAWN BY: JMB-40

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

MASTER DRAWING

SHEET NO. 5

**EXHAUST FAN INFORMATION – JOB#5600858**

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	WEIGHT (LBS)	SDNES
1	PCU-1	1	SIF20DD	CAPTIVEAIRE	2925	1.750	1684	TEFC,PREMIUM	5.000	2.8860	3	575	5.1	2078	23.5
2	EF-2	1	CFA 500CA	CAPTIVEAIRE	250	0.500	643	GENERALPURPOSE	0.310	0.1530	1	115	2.2	40	N/A

**MUA FAN INFORMATION – JOB#5600858**

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MOCP	WEIGHT (LBS)	SDNES
3	MAU-1	1	A1-D.250-15D	15MF-1-MDD	A1-D.250	1000	1775	0.500	1957	DDP,PREMIUM	2.000	1.0510	3	575	2.1	3.1A	15A	599	18.7

**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(%)
3	MAU-1	201717	185580	110°F	7 IN. W.C. - 14 IN. W.C.	NATURAL	92

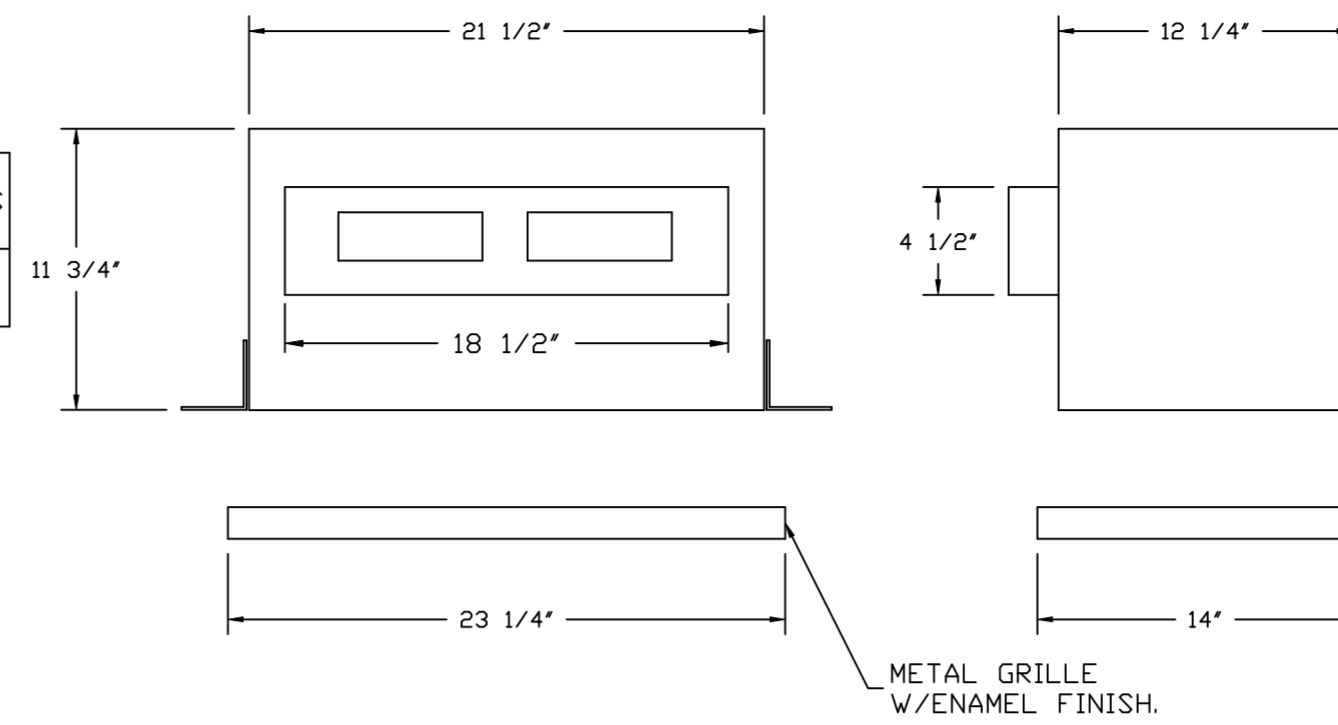
**FAN OPTIONS**

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	PCU-1	1	SIF 20- SS LOW SP STRAIGHT DISCHARGE- SQUARE TO ROUND DISCHARGE ADAPTER
		1	SIF20 - INLET - STANDARD 20" DUCT CONNECTION
		1	PCU-SIZE 4 SIF-20 HESS
		1	RUBBER VIBRATION ISOLATORS (SET OF 4), ISQ16 THRU ISQ22
		1	SIF - HORIZONTAL FLOOR MOUNT - PRE-INSTALLED MOUNTS (11-36)
		1	OPPOSITE SIDE CONTROLS- SIF
2	EF-2	1	POLLUTION CONTROL UNIT WITH PREFILTER, HIGH EFFICIENCY, AND DUAL DDDR CONTROL WITH INSTALLED ELECTRICAL DETECTION SYSTEM. SIZE 4
		1	2 YEAR PARTS WARRANTY
		1	982L IN LINE KIT
		1	STRAIGHT THROUGH DISCHARGE - ASSEMBLY - CFA INLINE
		1	CEILING VIBRATION HANGERS
		1	FAN CONTROL - 3 AMP FAN MOUNTED SPEED CONTROL FOR CFA CEILING FANS
3	MAU-1	1	2 YEAR PARTS WARRANTY
		1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC
		1	LOW FIRE START
		1	SHIP LOOSE GAS STRAINER 3/4"
		1	UPSTREAM PILOT FOR SIZES 1-3
		1	MOTORIZED BACKDRAFT DAMPER FOR A1-D HOUSING - MEETS AMCA CLASS 1A RATING
		1	INSULATION OPTION FOR VBANK FILTER SECTION
		1	DF1 INDOOR HANGING OPTION - INCLUDES 2 HSA125 HANGING SPRING ISOLATORS PER UNI-STRUT
		1	EXHAUST CONTACTOR AFTER AIRFLOW SWITCH - FIELD WIRED
		1	FREEZESTAT (10)
		1	LOAD REACTOR MOUNTED IN FAN
1	UNIT MOUNTED VFD FOR USE WITH ECPM03		
1	2 YEAR PARTS WARRANTY		

**FAN ACCESSORIES**

FAN UNIT NO	TAG	EXHAUST				SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT	
1	PCU-1								
2	EF-2								
3	MAU-1				YES		YES		

FAN #2 CFA 500CA - EXHAUST FAN (EF-2)



- 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**
- 982L IN LINE KIT.
  - STRAIGHT THROUGH DISCHARGE - ASSEMBLY - CFA INLINE.
  - CEILING VIBRATION HANGERS.
  - FAN CONTROL - 3 AMP FAN MOUNTED SPEED CONTROL FOR CFA CEILING FANS.
  - 2 YEAR PARTS WARRANTY.

**REVISIONS**

DESCRIPTION	DATE:

Highwoods Group  
 4641 Paragon Park Rd., Raleigh, NC, 27616 PHONE: (919) 875-0420 FAX: (919) 875-0577 EMAIL: reg@captivair.com

CHIPOTLE KING GEORGE HUB #4546  
 SURREY, BC, V3T 4Y3

**DATE:** 11/18/2022  
**DWG.#:** 5600858  
**DRAWN BY:** JMB-40  
**SCALE:** 3/4" = 1'-0"  
**MASTER DRAWING**

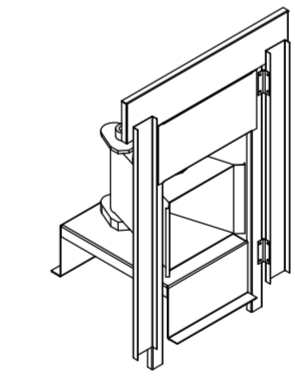
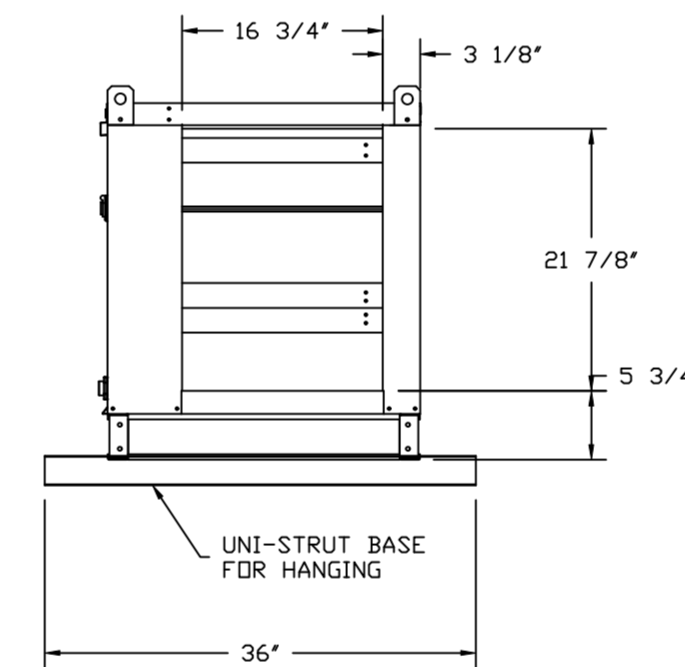
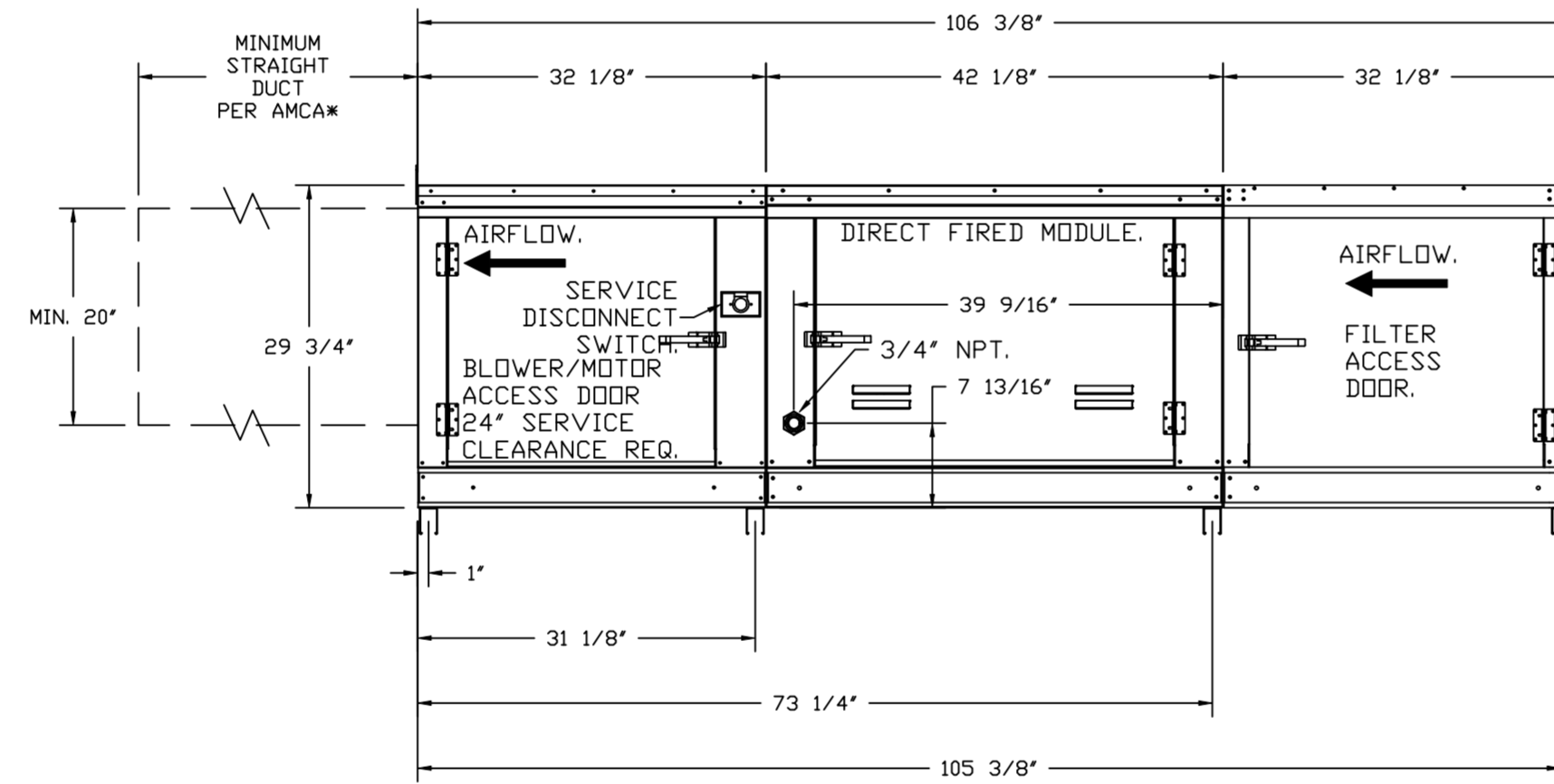
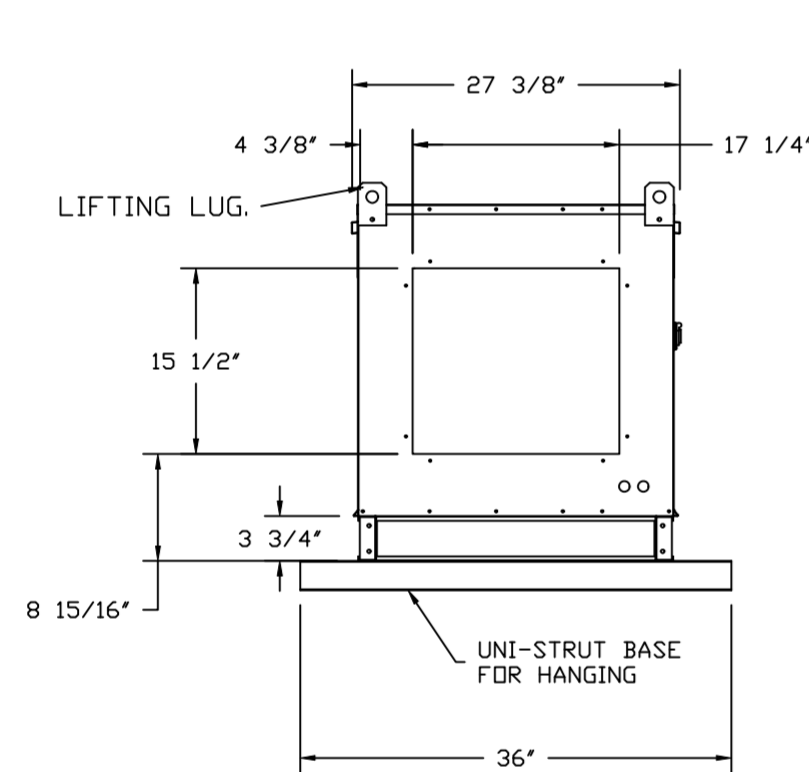
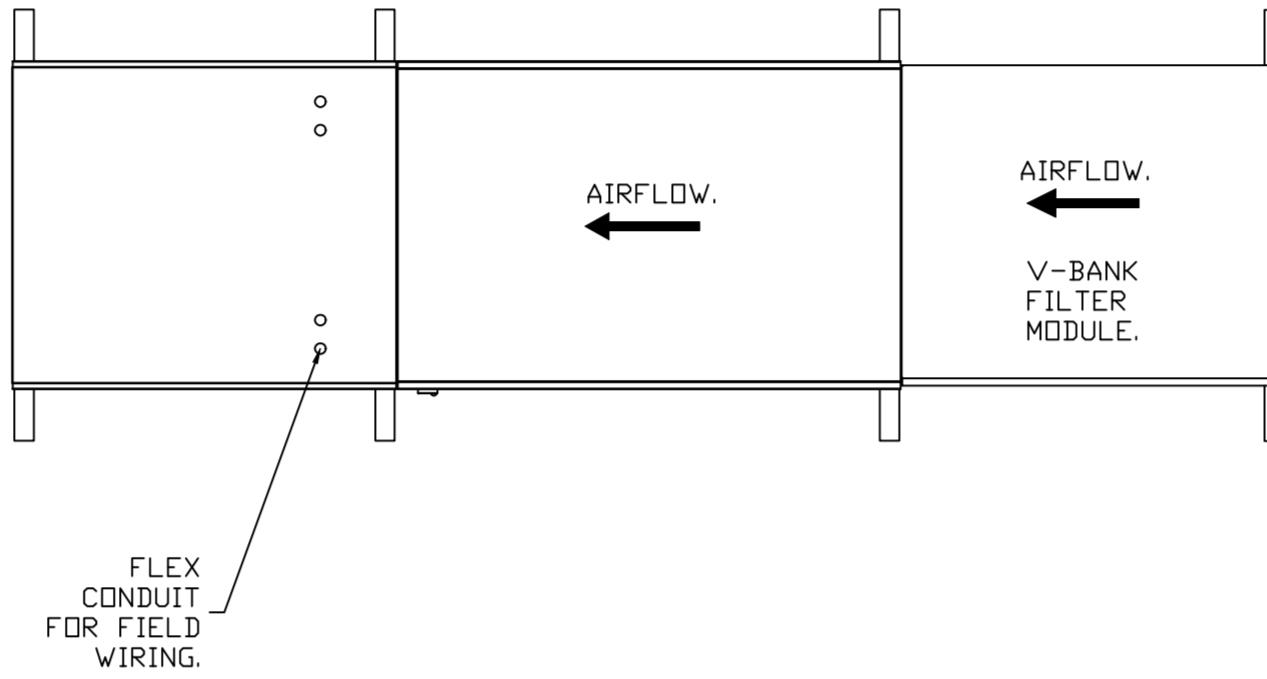
**SHEET NO.**  
 6

- FAN #3 AI-D250-1SD - HEATER (MAU-1)
1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 15' MIXED FLOW DIRECT DRIVE FAN.
  2. V-BANK EZ FILTERS - INDOOR.
  3. SIDE DISCHARGE - AIR FLOW RIGHT -> LEFT.
  4. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE.
  5. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC, 2.5" DIAMETER, 1/4" THREAD SIZE.
  6. LOW FIRE START. ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
  7. SHIP LOOSE GAS STRAINER. TO BE INSTALLED UPSTREAM OF UNIT CONNECTION, 3/4" CONNECTION.
  8. PILOT LOCATED UPSTREAM OF FIRST REDUNDANT SOLENOID VALVE OF SIZE 1-3 MAX GAS PRESSURE OF 14" WC.
  9. MOTORIZED BACK DRAFT DAMPER 16" X 18" FOR SIZE 1 STANDARD & MODULAR HEATER UNITS V/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, TFB120S ACTUATOR INCLUDED.
  10. \*INSULATION\* FOR V-BANK INTAKE OPTION.
  11. INDOOR HANGING CRADLE FOR THE SIZE 1 DIRECT FIRED UNIT. 2 HSM125 HANGING ISOLATORS PER UNI-STRUT INCLUDED.
  12. FIELD WIRED EXHAUST CONTACTOR AFTER AIRFLOW SWITCH. RATED 29 AMPS. STARTS UP TO (2) SINGLE PHASE MOTORS. 2HP MAX. 115V, 3HP MAX. 240V. STARTS ONE THREE PHASE MOTOR. 5HP MAX. 208V, 7.5HP 230V, 15HP MAX. 460V, 15HP MAX. 575V DR (4) DRY INTERLOCKS. OVERLOAD NOT INCLUDED.
  13. FREEZE STAT WITH 10" SENSOR. FACTORY SET AT 35°F AND 10 MINUTES.
  14. MOUNT LOAD REACTOR IN FAN.
  15. UNIT MOUNTED VFD FOR USE WITH ECPM03.
  16. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER SECTION).
  17. 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 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 20" x 20".

SUPPLY SIDE HEATER INFORMATION:

WINTER TEMPERATURE = 24°F. TEMP. RISE = 110°F.  
 BTUS CALCULATED OFF ACTUAL AIR DENSITY.  
 OUTPUT BTUS AT ALTITUDE OF 0.0 FT. = 187863.  
 INPUT BTUS AT ALTITUDE OF 0.0 FT. = 204199.  
 OUTPUT BTUS AT ALTITUDE OF 338 FT. = 185580.  
 INPUT BTUS AT ALTITUDE OF 338 FT. = 201717.



DIRECT FIRED (DF) PROFILE PLATE ASSEMBLY

**DIRECT FIRED PROFILE PLATE SPECIFICATIONS:**  
**DESCRIPTION:**  
 DIRECT FIRED BURNERS SHALL HAVE PATENTED (US PATENT NO. US6699828B2), 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 9PPM 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 600 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

**CAPTIVE**

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CHIPOTLE KING GEORGE HUB #4546

SURREY, BC, V3T 4Y3

DATE: 11/18/2022

DWG.#: 5600858

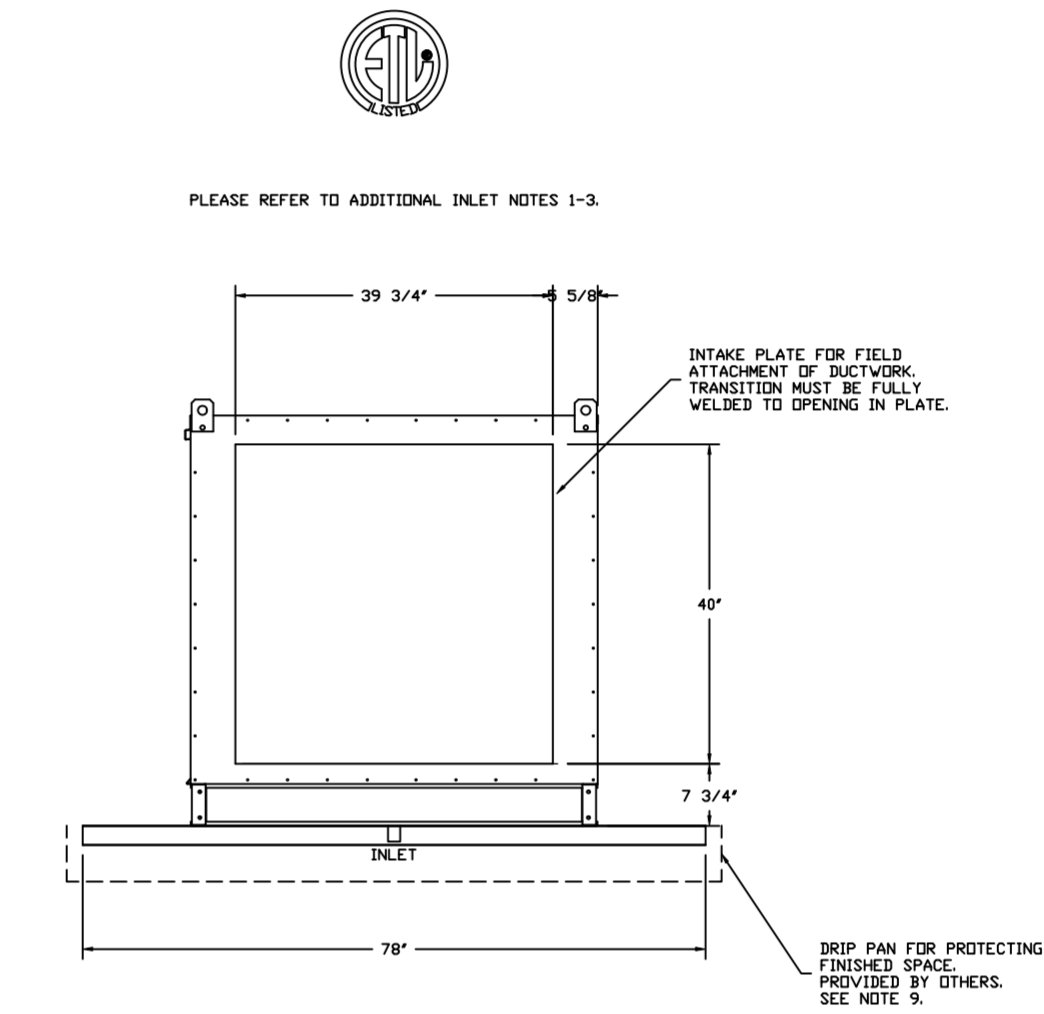
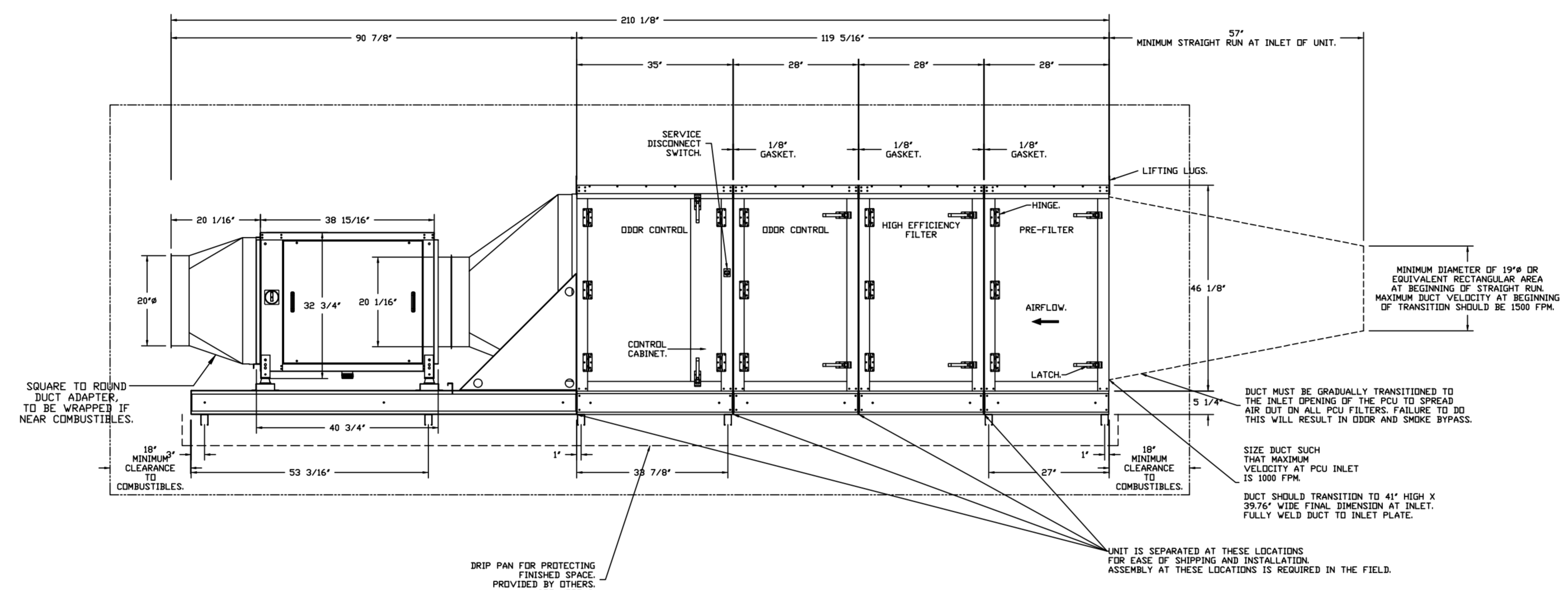
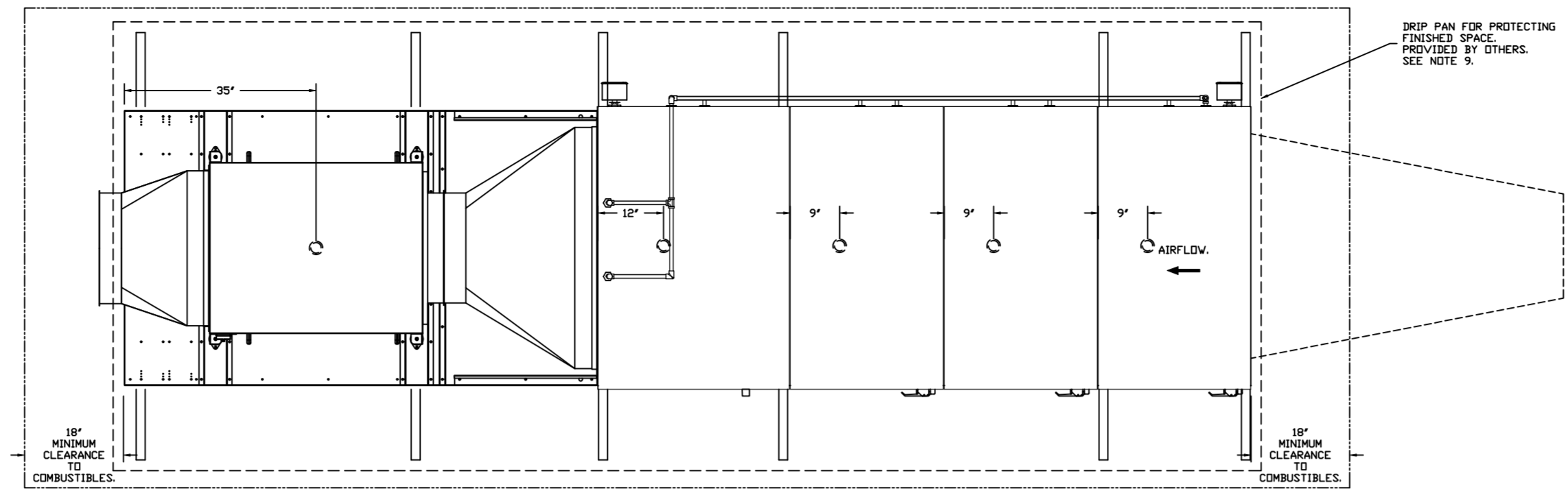
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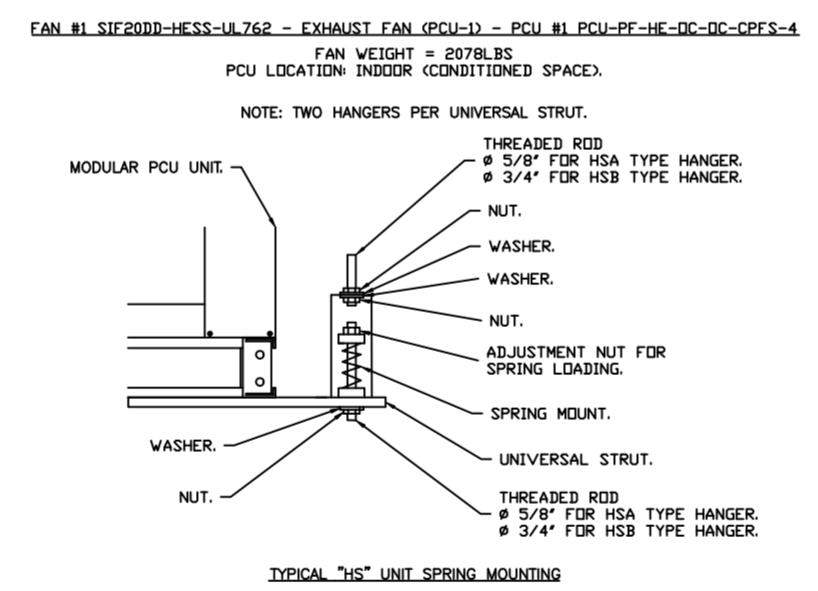
SHEET NO. 7

DESCRIPTION  
 FAN #1 SIF2000-HESS-UL762 - EXHAUST FAN (PCU-1) - POLLUTION CONTROL UNIT WITH CORE PROTECTION FIRE SYSTEM INSTALLED. INCLUDES STEEL PRE-FILTER MODULE, HIGH EFFICIENCY MERV 15 FILTER MODULE, AND DUAL ODOR CONTROL MODULES PREPARED WITH 59 O-L-M NOZZLES AND INCLUDES DOWNSTREAM PROTECTION. ELECTRIC FIRE DETECTOR AND NOZZLES ARE INCLUDED.



- NOTES
- ALL DIMENSIONS ARE NOMINAL AND GIVEN IN INCHES.
  - C/VIS UL710 LISTED FOR GREASE DUCT INSTALLATION.
  - UL762 RATED DIRECT DRIVE SQUARE INLINE FAN WITH 2075' HIGH EFFICIENCY MIXED FLOW WHEEL.
  - WHEN USED IN KITCHEN GREASE DUCT, UNIT MUST BE INSTALLED DOWNSTREAM OF A LISTED HOOD ASSEMBLY OF A UL710 LISTED HOOD ASSEMBLY OR A NFPA 96 COMPLIANT HOOD AS LONG AS IT IS INSTALLED WITH A FIRE SUPPRESSION SYSTEM THAT IS INTERLOCKED WITH THE NFPA 96 COMPLIANT HOOD FIRE SYSTEM.
  - CLEARANCE ON FILTER ACCESS SIDE OF THE PCU SHOULD BE A MINIMUM OF 36" FOR PROPER SERVICE OF THE UNIT. ALL OTHER SIDES SHOULD FOLLOW CLEARANCE TO COMBUSTIBLES GUIDELINES PER CODE.
  - UNIT CONTAINS PRESSURE MONITORING SWITCH REFER TO ELECTRICAL SCHEMATIC OR OPERATION MANUAL FOR MORE INFORMATION.
  - 1.5" NPT DRAIN SUPPLIED IN EACH MODULE BASE. CONNECT INDIVIDUAL DRAINS TO A COMMON 2 1/2" DRAIN AND ROUTE TO GREASE INTERCEPTOR.
  - FIRE SYSTEM TO BE INSTALLED INDOORS OR IN A WEATHERTIGHT ENCLOSURE MAINTAINED BETWEEN 32" AND 150" F. THIS ENCLOSURE IS PROVIDED BY OTHERS.
  - WHEN THE PCU IS INSTALLED ABOVE OR NEAR A FINISHED SPACE, THE INSTALLING CONTRACTOR MUST PROTECT THE FINISHED SPACE TO PREVENT WATER DAMAGE IN THE EVENT OF A FIRE SYSTEM DISCHARGE OR WHEN REGULAR CLEANING IS PERFORMED ON THE UNIT.
  - POLLUTION CONTROL UNIT IS RATED FOR INDOOR USE WHEN INSTALLED IN ACCORDANCE WITH IMC 506.5.2.4, INCLUDING THE USE OF A FIRE RATED ENCLOSURE AS APPLICABLE.

PCU OPTIONS  
 - INDOOR HANGING CRADLE FOR SIZE 4 PCU WITH 3 OR 4 MODULES AND USB1 BLOWER. 6 PIECES OF UNI-STRUT, 78 INCHES LONG EACH & HSA310 HANGING ISOLATORS PER UNI-STRUT INCLUDED. FOR USE WITH USB1 BLOWERS.  
 - POWER WITH IHE SCREEN, BACK PLATE WITH LABEL, AIRLINE/S, BULK CONNECTS, AIR PROBES, CONDUIT FITTINGS, WIRING HARNESS.  
 - UNIVERSAL BALL VALVE SUPERVISION SWITCH KIT FOR 1-1/2" PIPE. INCLUDES BALL VALVE.  
 - INTAKE PLATE FOR SIZE 4 PCU WITH 39 3/4" X 46" HOLES FOR DUCT CONNECTIONS FOR USE WITH CUSTOM DUCT FITMENT OR FIELD FITMENT.  
 - POLLUTION CONTROL UNIT SHIPPED AS INDIVIDUAL MODULES. CONNECTION HARDWARE INCLUDED.



- INLET NOTES
- LENGTH OF STRAIGHT DUCT ON INLET OF PCU TO BE 2 TIMES THE EQUIVALENT DUCT DIAMETER TO AVOID SYSTEM EFFECT.
  - MAX INLET DUCT VELOCITY TO BE 1000 FPM INTO THE PCU. DUCTWORK SHOULD BE SIZED APPROPRIATELY.
  - DUCT MUST BE GRADUALLY TRANSITIONED TO THE INLET OPENING OF THE PCU TO SPREAD AIR OUT ON ALL PCU FILTERS. FAILURE TO DO THIS WILL RESULT IN ODOR AND SMOKE BYPASS.
  - A SERVICE PLATFORM MUST BE INSTALLED ON THE FILTER SIDE OF THE UNIT FOR PROPER FILTER MAINTENANCE. THE PLATFORM MUST BE THE SAME LENGTH AS THE PCU AND AT LEAST 3 FEET WIDE. THE PLATFORM MUST BE STRUCTURALLY SUPPORTED BY THE BUILDING, INDEPENDENT OF THE PCU. THE PLATFORM MUST BE DESIGNED TO PROPERLY SUPPORT THE WEIGHT OF ALL PCU FILTERS AND MAINTENANCE PERSONNEL. HANGERS MUST BE INSTALLED ON THE SERVICE PLATFORM TO PROTECT MAINTENANCE PERSONNEL.

FAN OPTIONS  
 - SIF 20-SS LOW SP STRAIGHT DISCHARGE- SQUARE TO ROUND DISCHARGE ADAPTER  
 - SIF20 - INLET - STANDARD 20" DUCT CONNECTION  
 - PCU-SIZE 4 SIF-20 HESS  
 - RUBBER VIBRATION ISOLATORS (SET OF 4), 150# THRU 150#22  
 - SIF - HORIZONTAL FLOOR MOUNT - PRE-INSTALLED MOUNTS (CI-36)  
 - OPPOSITE SIDE CONTROLS- SIF  
 - POLLUTION CONTROL UNIT WITH PRE-FILTER, HIGH EFFICIENCY AND DUAL ODOR CONTROL WITH INSTALLED ELECTRICAL DETECTION SYSTEM, SIZE 4  
 - 2 YEAR PARTS WARRANTY

PCU FILTER SPECIFICATIONS					
DESIGN CFM - 2925					
MODULE	FILTER TYPE	FILTER EFFICIENCY	QTY	SIZE	SP/CLEAN (in WC)
1	CAPTRATE S/DLD	MERV 8	10	20X25X2	0.166
2	HIGH EFFICIENCY	MERV 15	10	20X25X4	0.109
3	DC CAUSTIC IMPREGNATED	N/A	10	20X25X4	0.337
4	DC 100% CARBON	N/A	10	20X25X4	0.337
					0.949

**REVISIONS**

DESCRIPTION	DATE:

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Highwoods Group  
4441 Paragon Park Rd., Raleigh, NC 27616 PHONE: (919) 875-0420 FAX: (919) 875-0577 EMAIL: reg10@captiveaire.com

CHIPOTLE KING GEORGE HUB #4546

SURREY, BC, V3T 4Y3

DATE: 11/18/2022

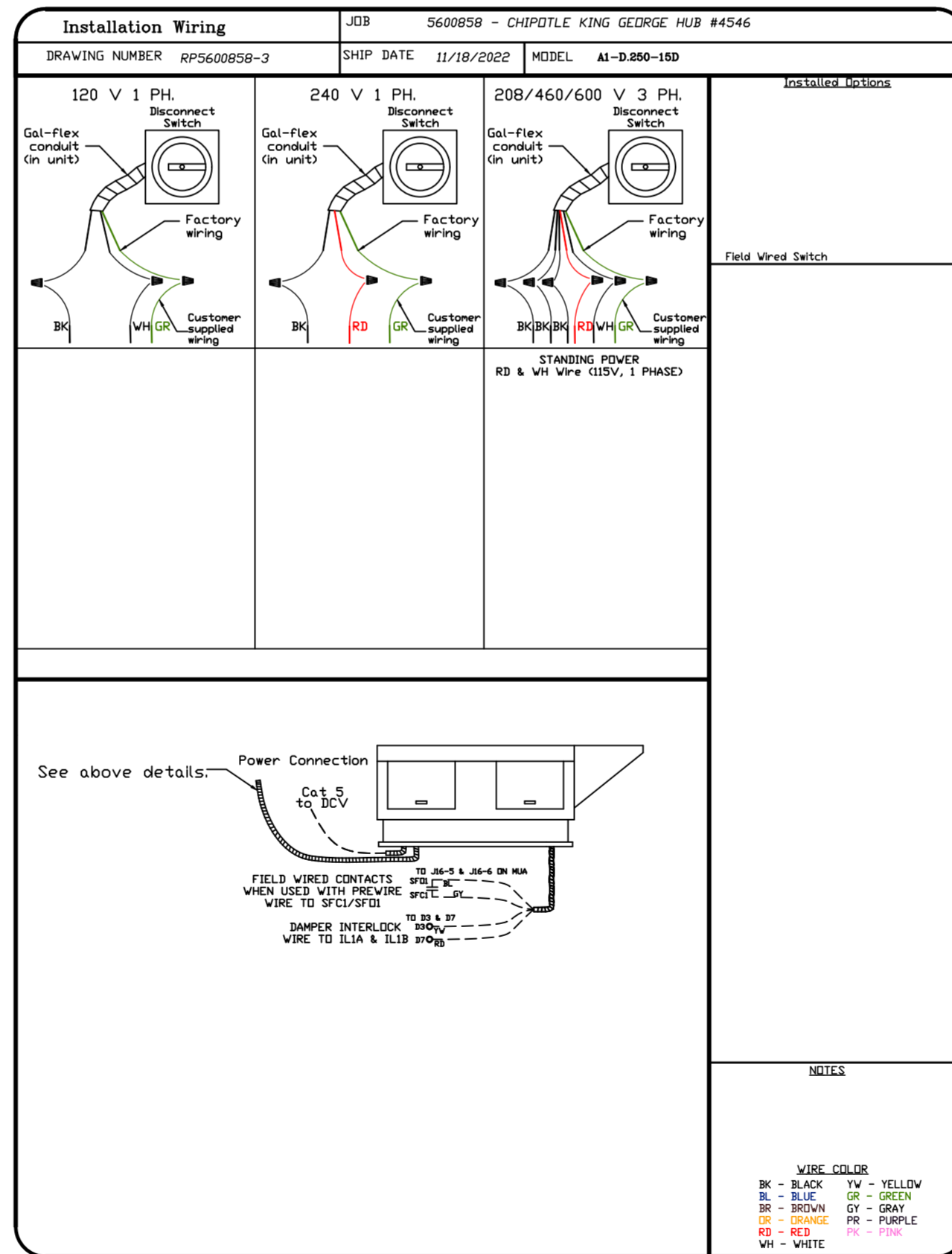
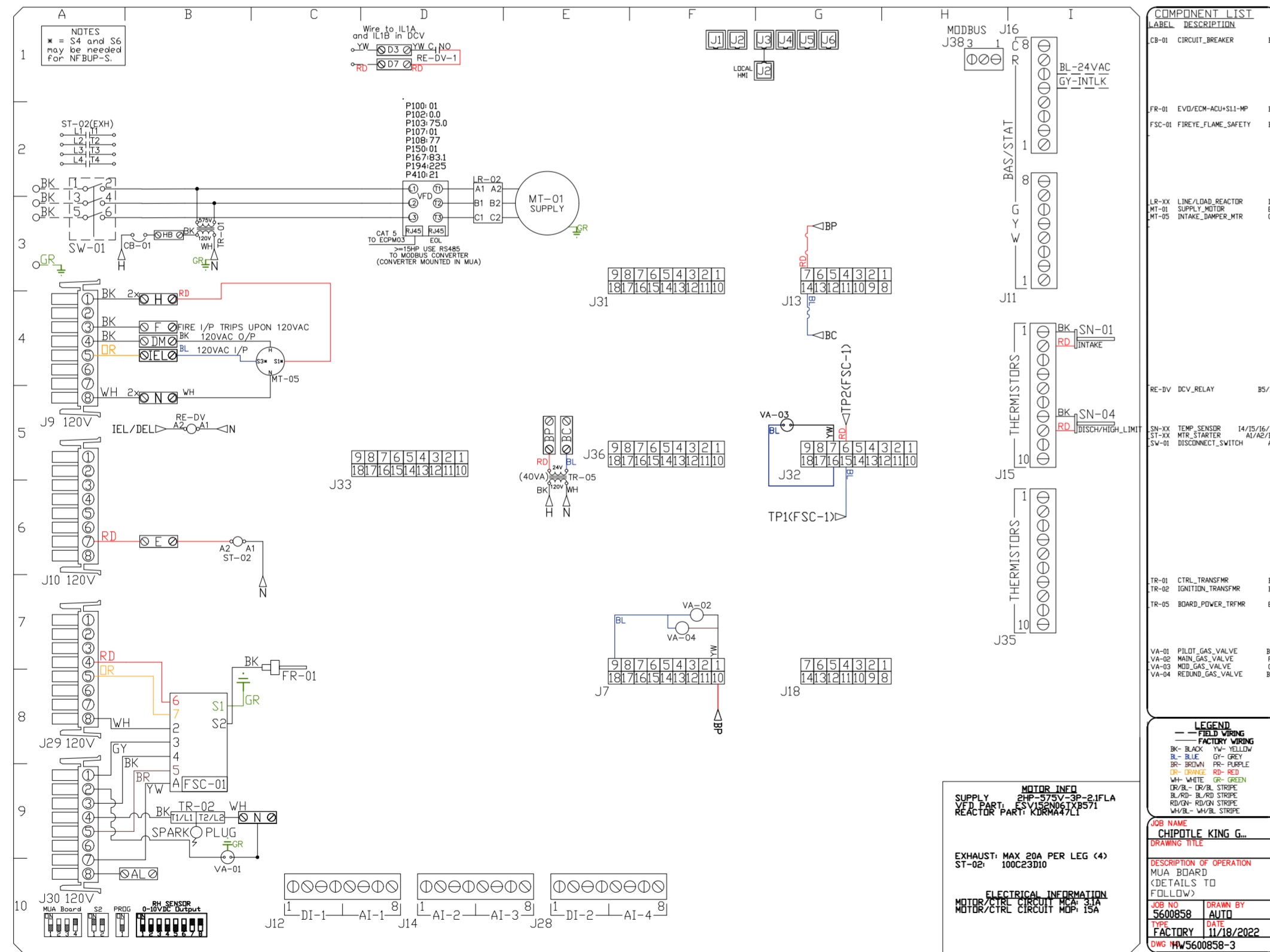
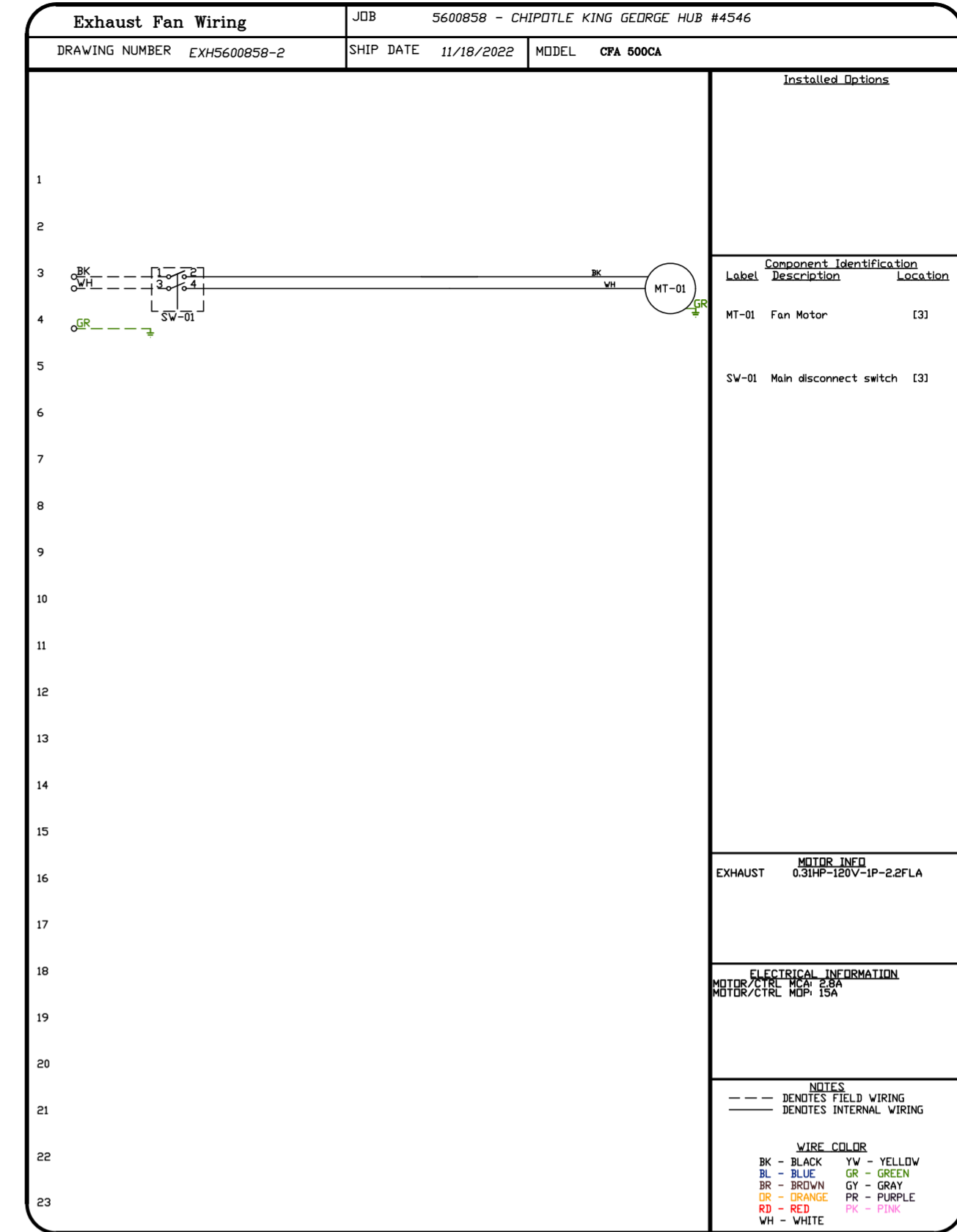
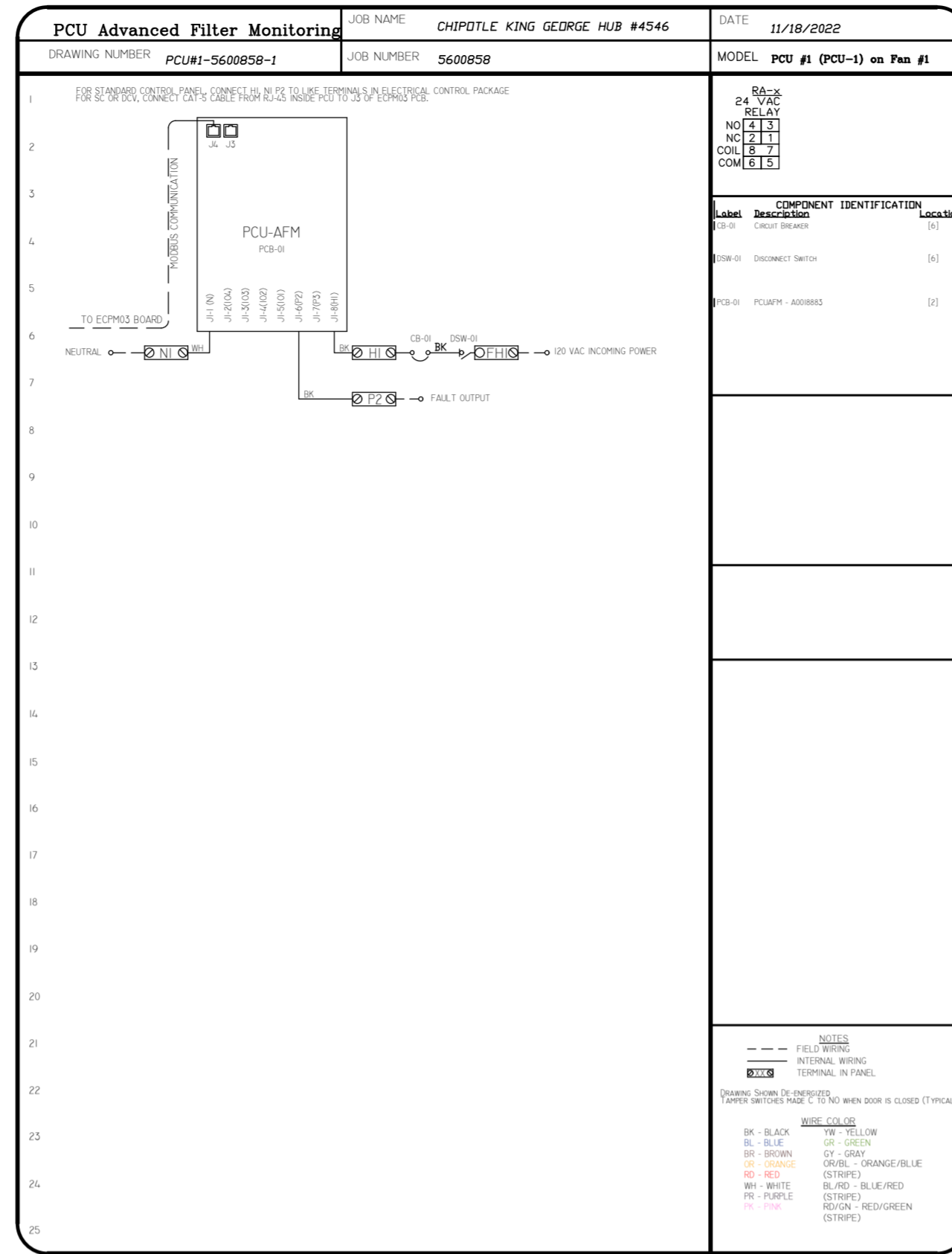
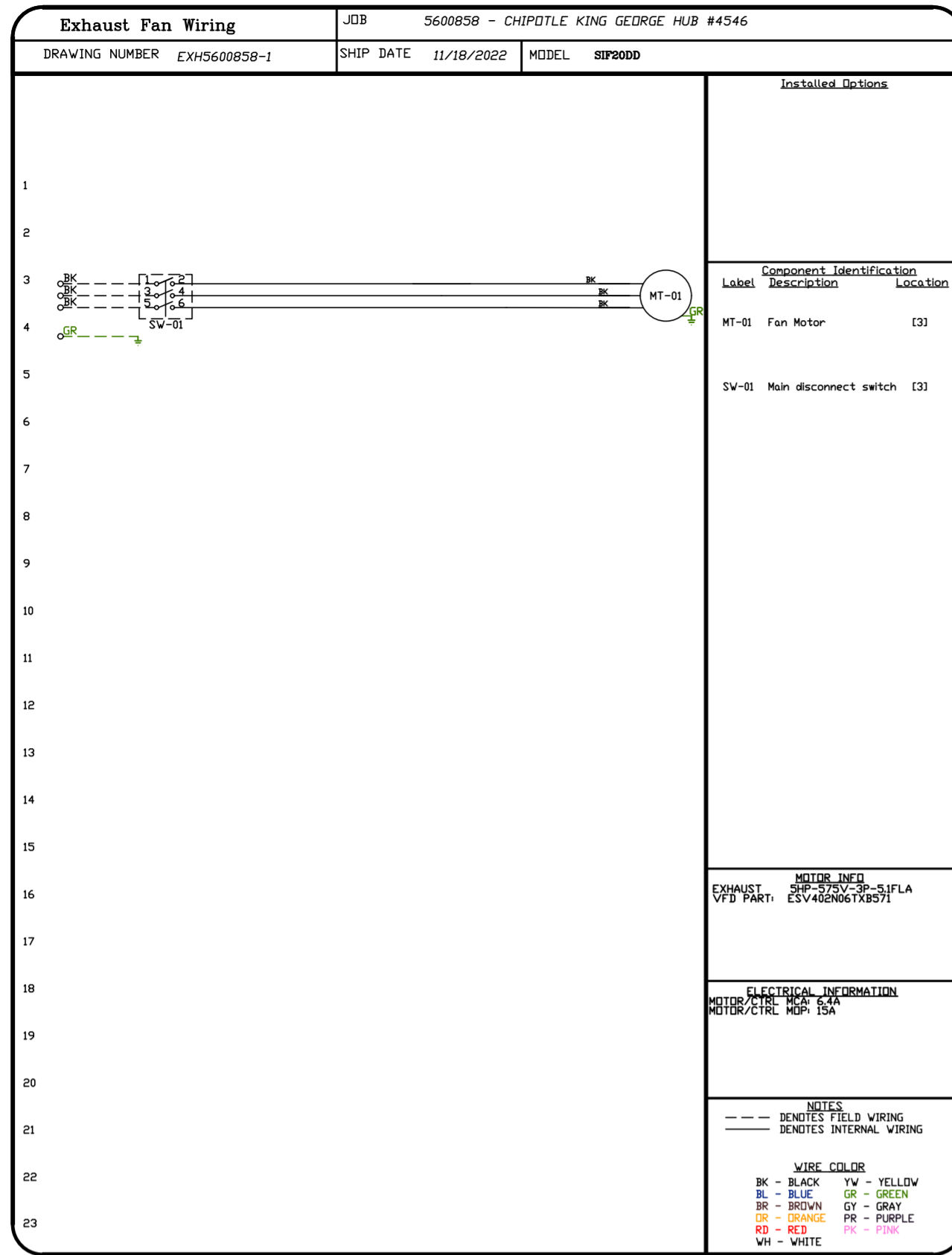
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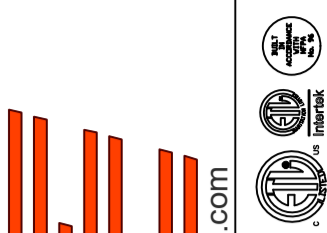
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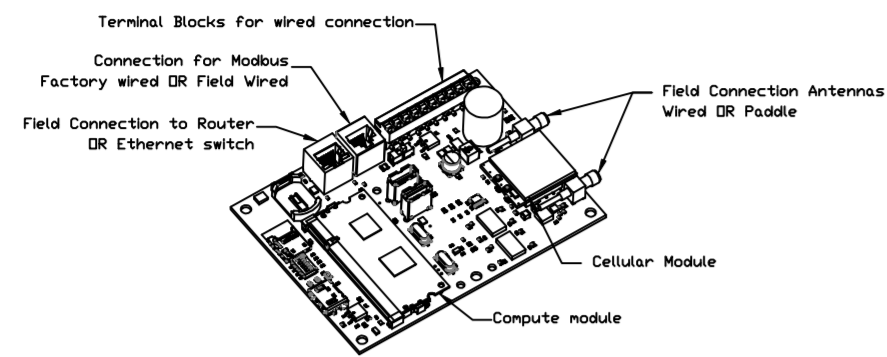
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 DWG.#: 5600858  
 DRAWN BY: JMB-40  
 SCALE: 3/4" = 1'-0"  
 MASTER DRAWING  
 SHEET NO. 9

**ELECTRICAL PACKAGE - JOB#5600858**

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	#	HP	VOLT	FLA
1		SC-311110MA	UTILITY CABINET RIGHT	04 - UTILITY CABINET RIGHT	1 LIGHT	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY	PCU-1	EXHAUST	3	5.000	575	5.1
				HOOD # 1	1 FAN		MAU-1	SUPPLY	3	2.000	575	2.1

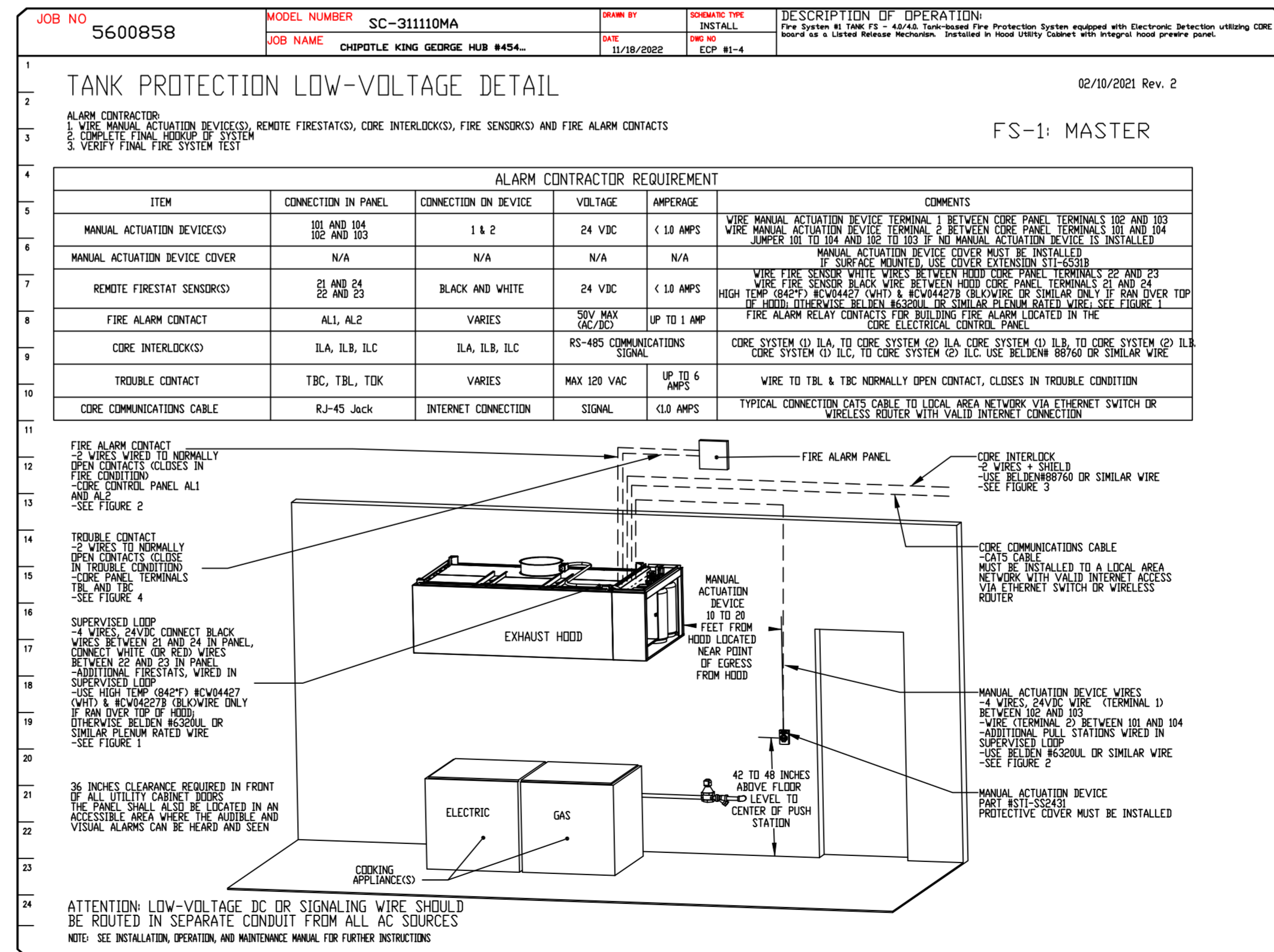
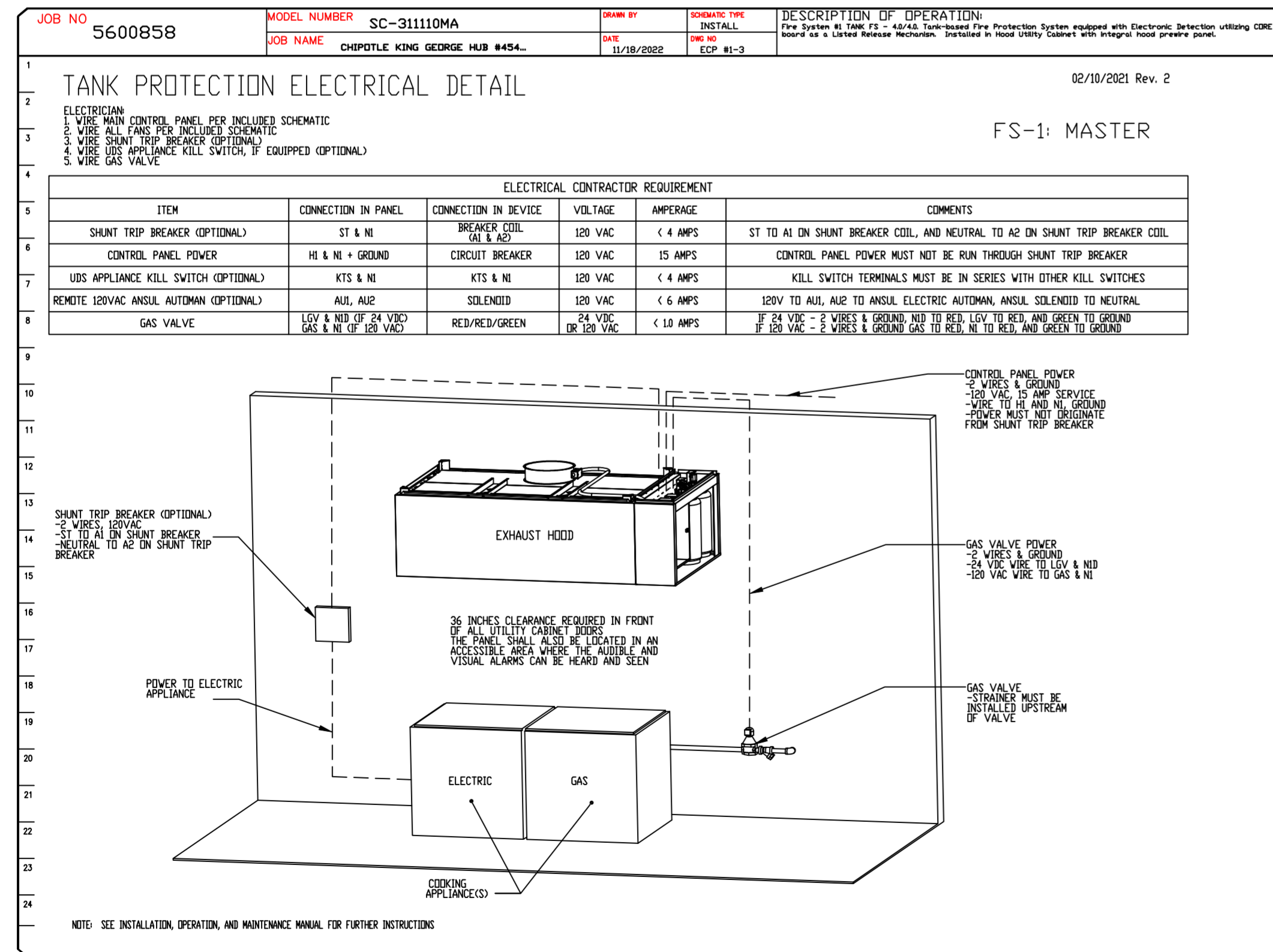
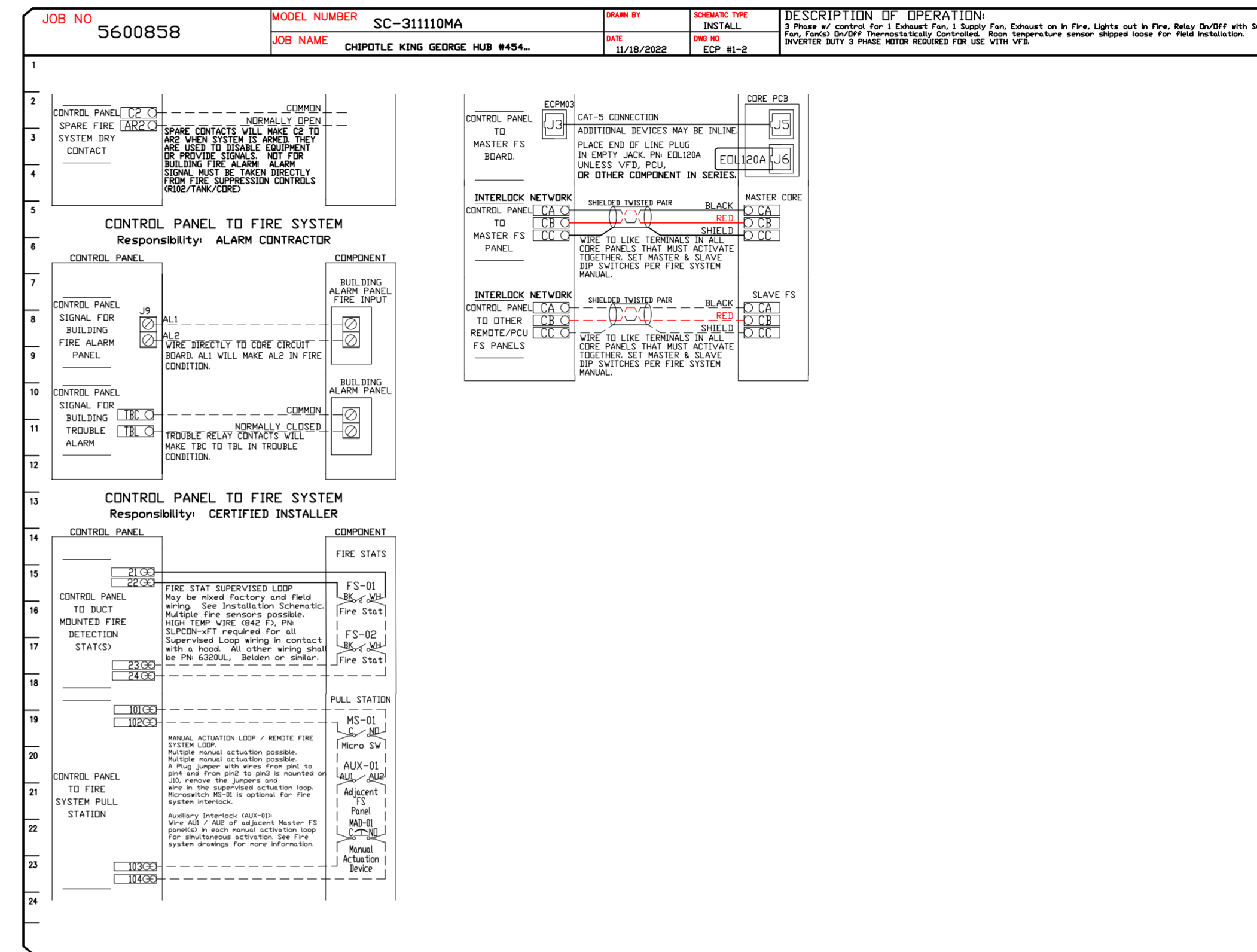
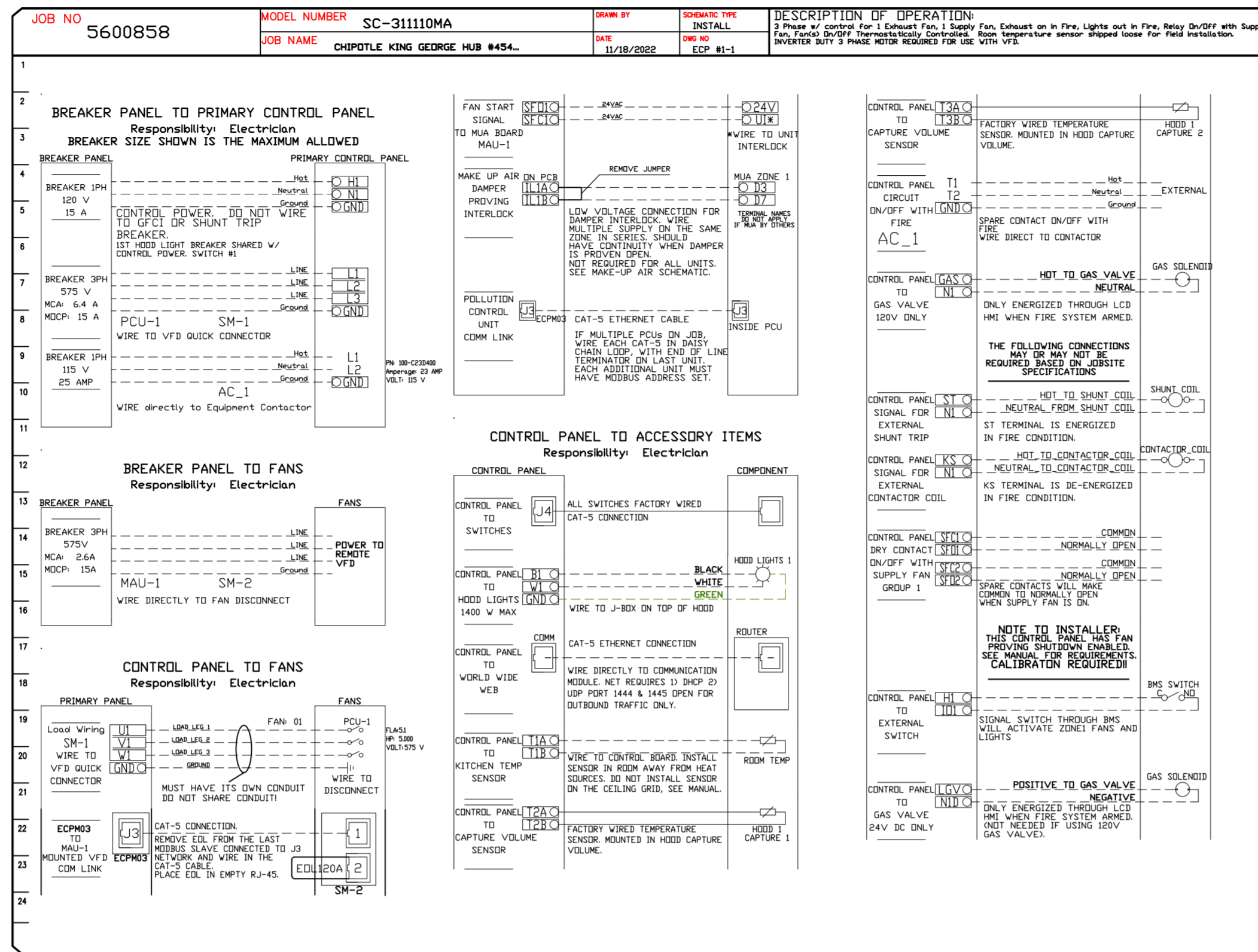


**CASlink Monitor and Control**

- Hood control panel to support communications to cloud-based Building Management System.
- 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.

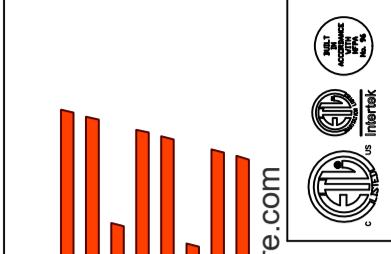
**MONITORING AND CONTROL POINTS LIST**

DCY 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	Controller Faults	MONITOR
Fan Amps	MONITOR	Fan Status	MONITOR
Fan Power	MONITOR	PCU Faults	MONITOR
VFD Faults	MONITOR	PCU Filter Clap Percentages	MONITOR
Controller Faults	MONITOR	Fire Condition	MONITOR
Fan Status	MONITOR	COBE Fire System	MONITOR
PCU Faults	MONITOR	Building Pressures	MONITOR & CONTROL
PCU Filter Clap Percentages	MONITOR	Pans Buttons(s)	MONITOR & CONTROL
Fire Condition	MONITOR & CONTROL	Lights Button(s)	MONITOR & CONTROL
COBE Fire System	MONITOR	Wash Button	MONITOR & CONTROL
Building Pressures	MONITOR		
Prep Time Button	MONITOR & CONTROL		
Pans Button	MONITOR & CONTROL		
Lights Button	MONITOR & CONTROL		
Wash Button	MONITOR & CONTROL		



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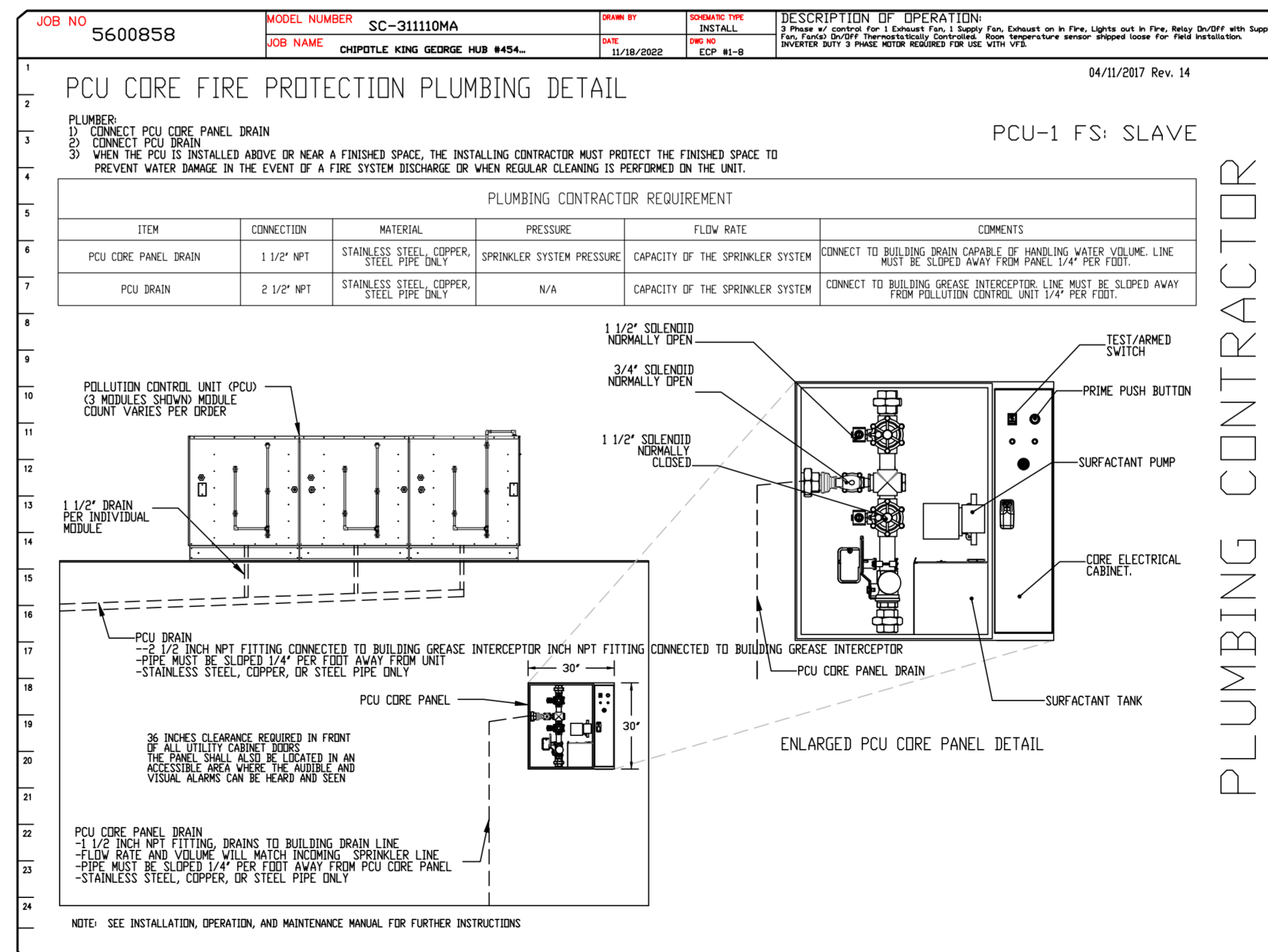
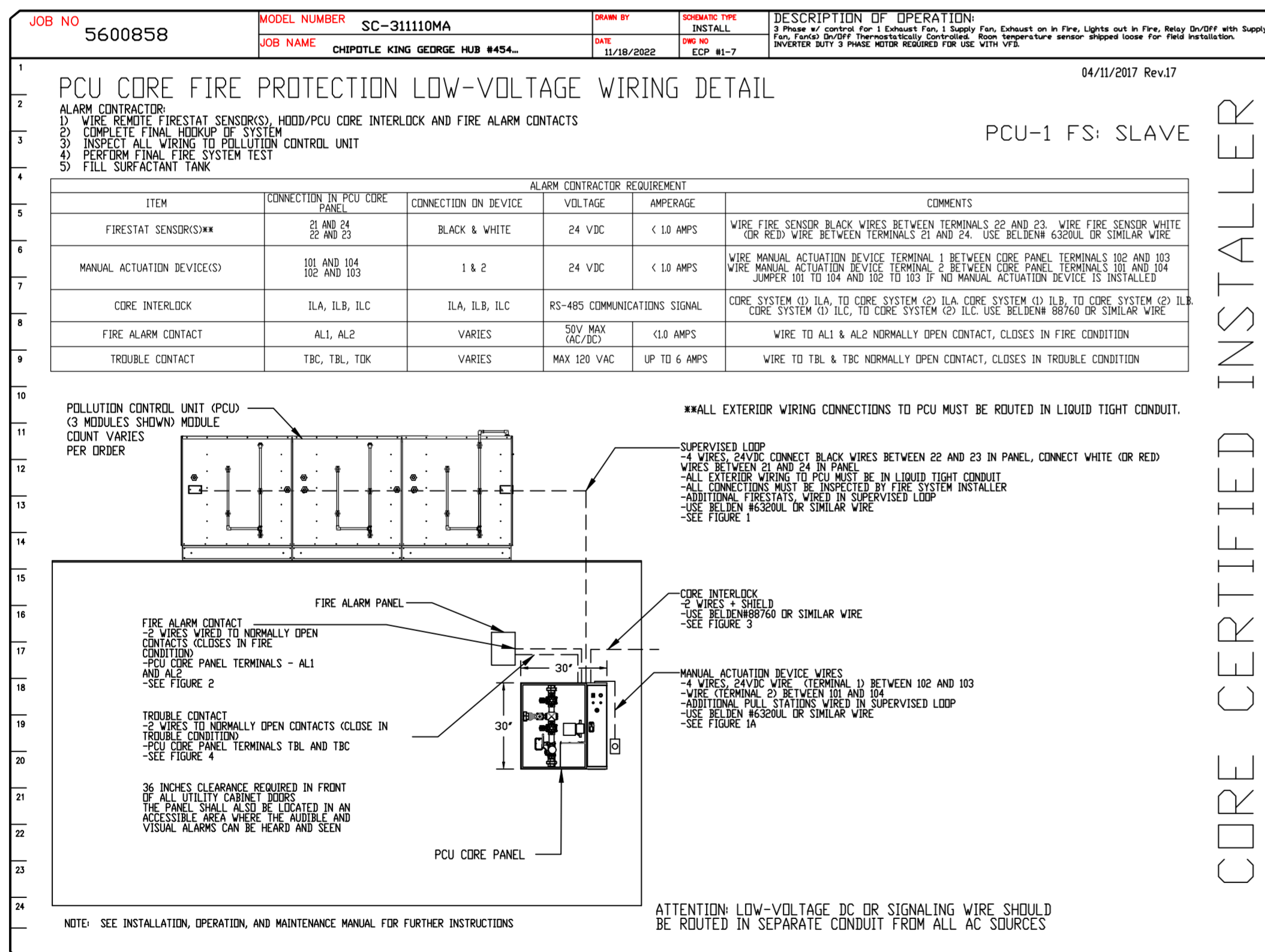
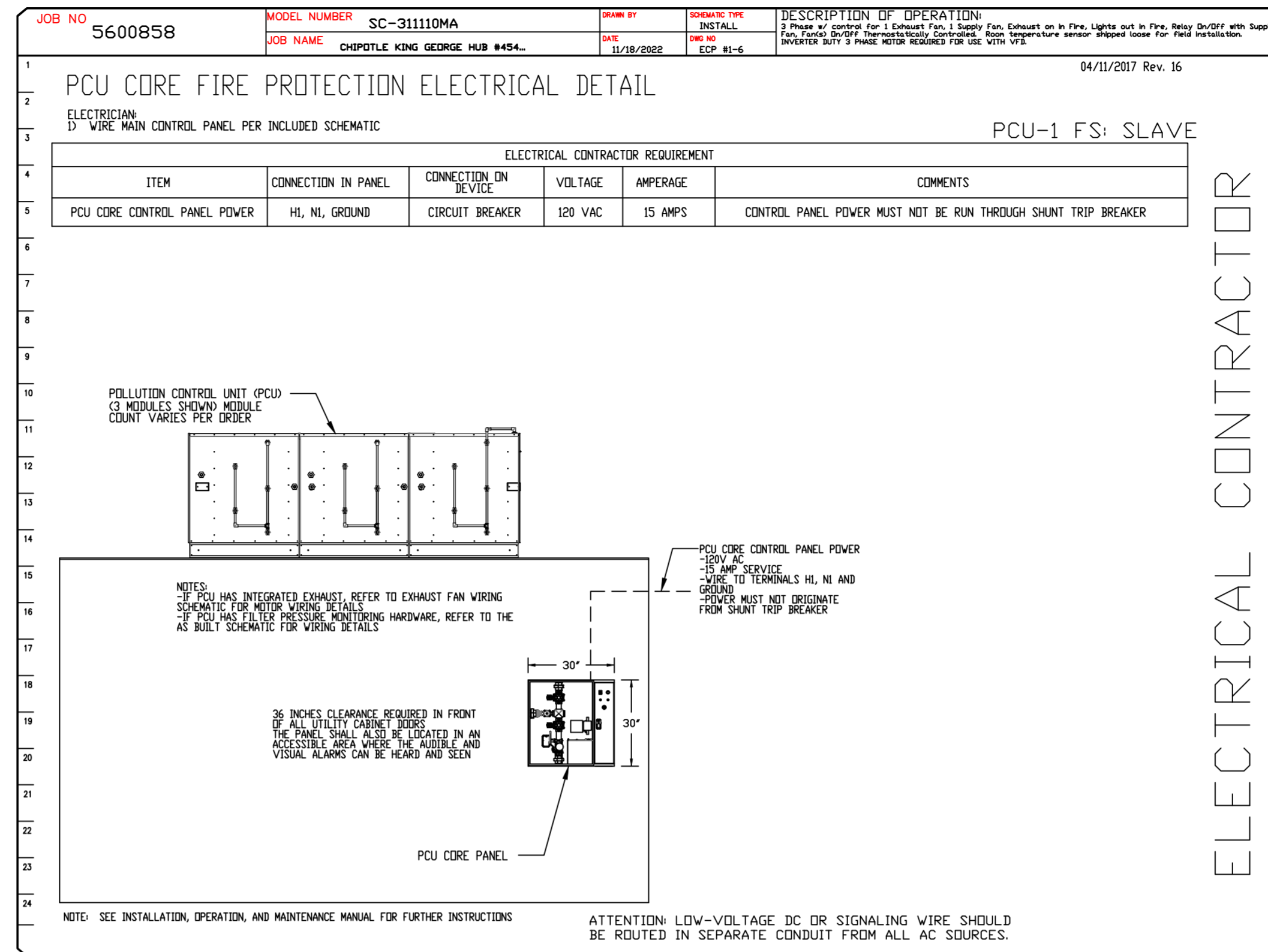
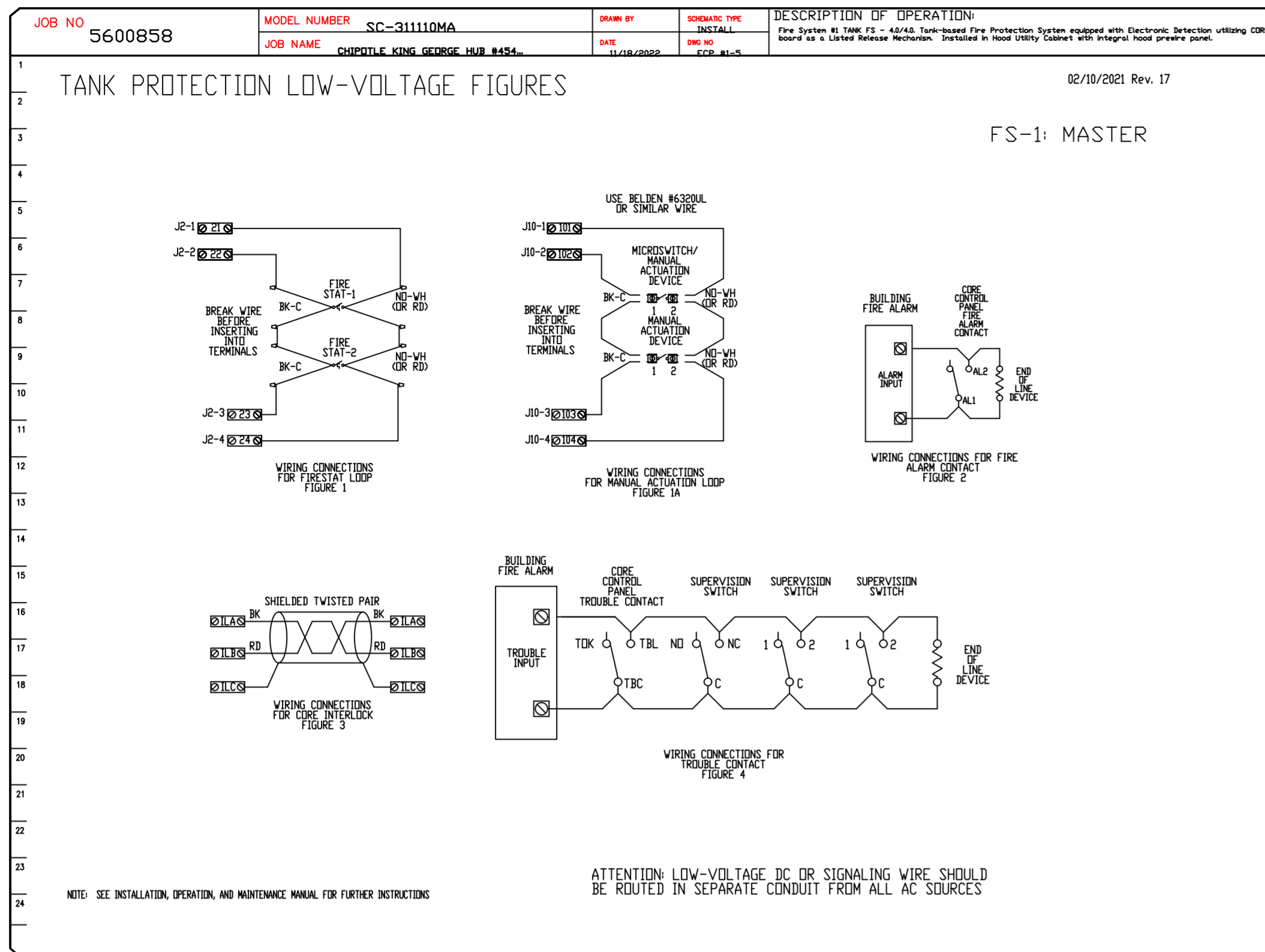
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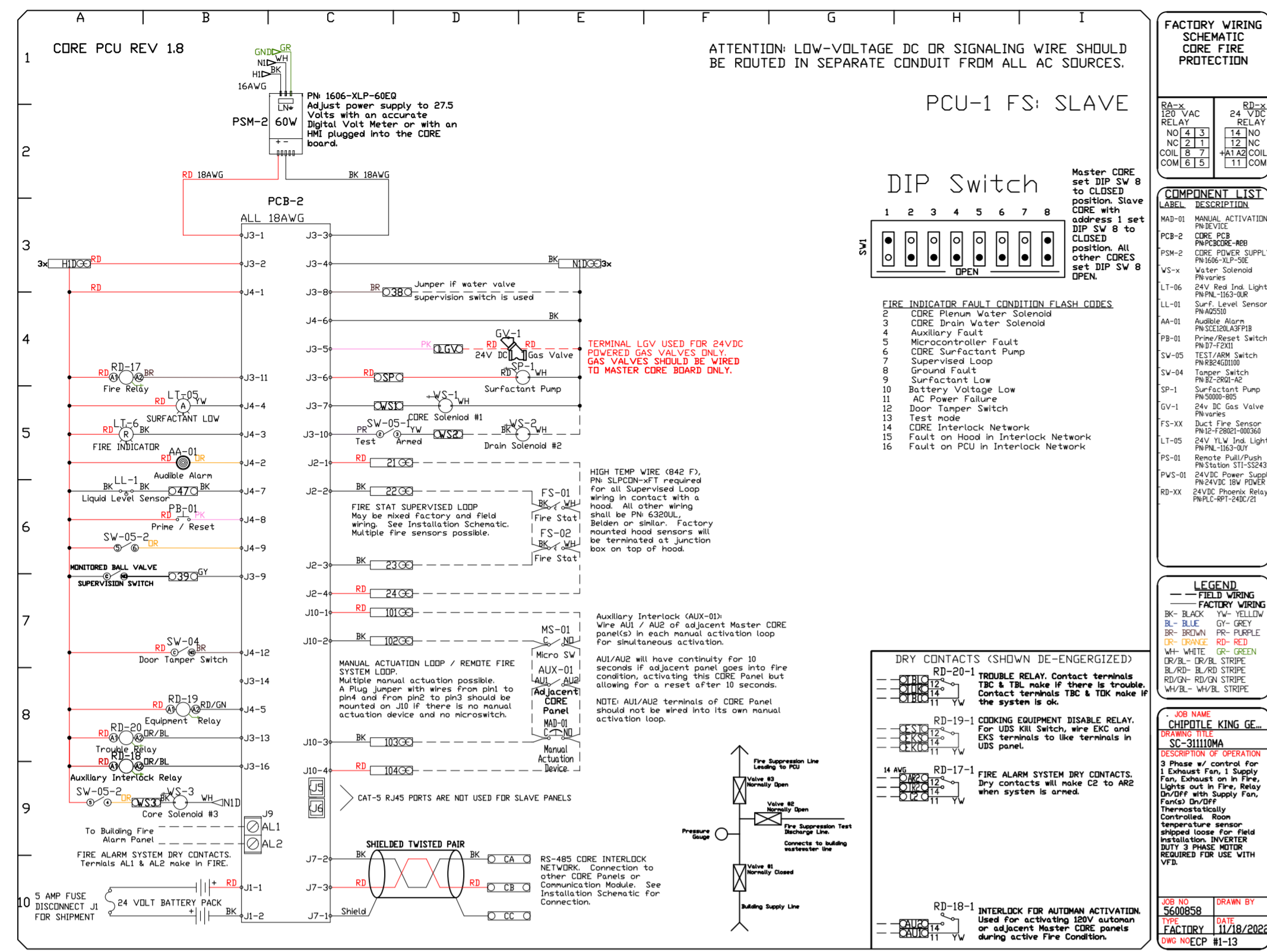
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SHEET NO. 11





**REVISIONS**

NO.	DESCRIPTION	DATE
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2		
3		
4		



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