

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

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

HOOD INFORMATION - JOB#7115877

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
1		5424 ND-2	CAPTIVEAIRE	9' 4"	600 DEG	I	HEAVY	204	1900	10"	18"	4"	1900	1520	-0.818'	430 SS WHERE EXPOSED	ALONE	ALONE

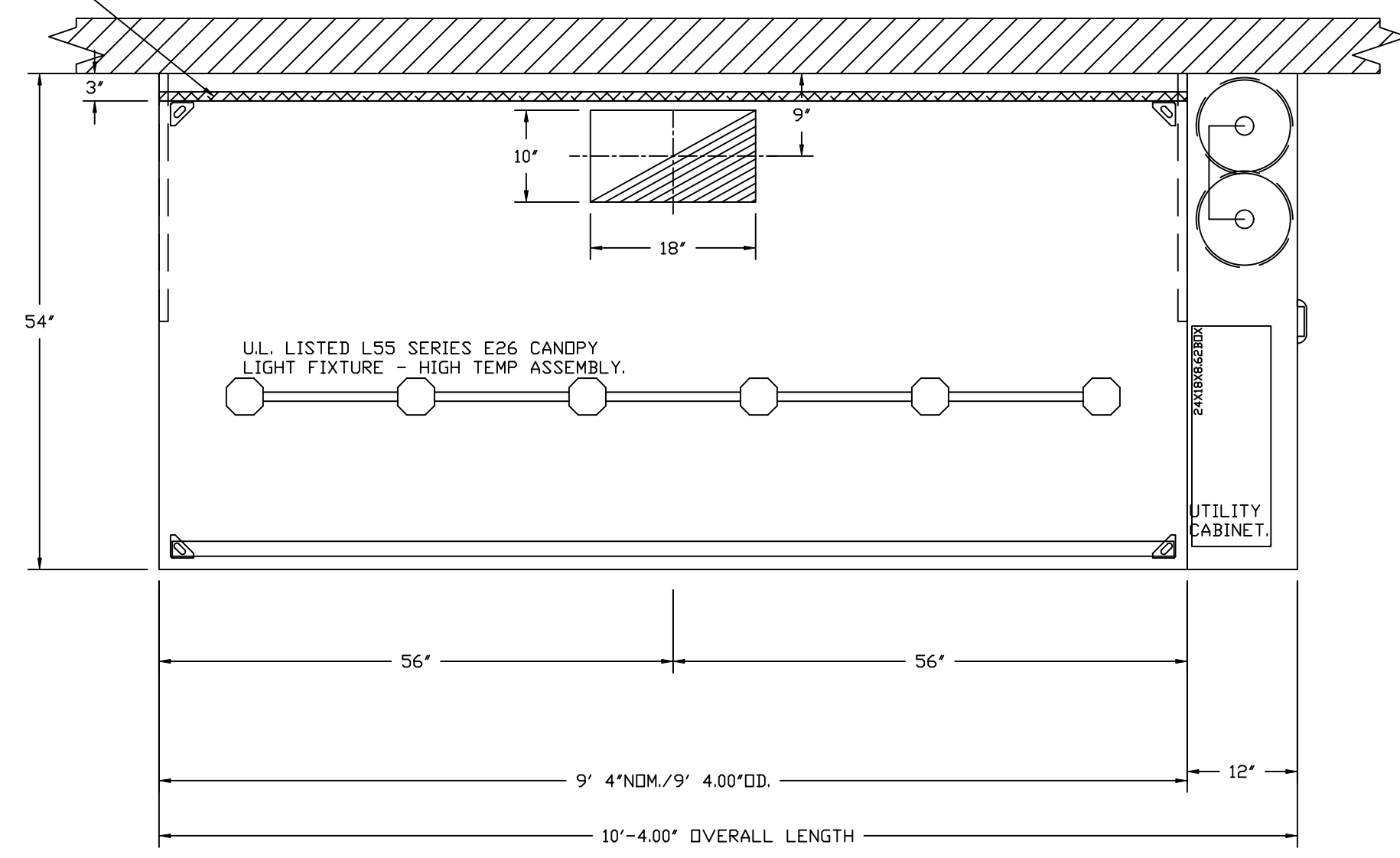
HOOD INFORMATION

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		CAPRATE SOLID FILTER	7	16"	16"	85% SEE FILTER SPEC	6	L55 SERIES E26	NO	RIGHT	12"x54"x24"	TANK FS	4.0/4.0	SC-310110MA	1 LIGHT 1 FAN	YES	1011 LBS

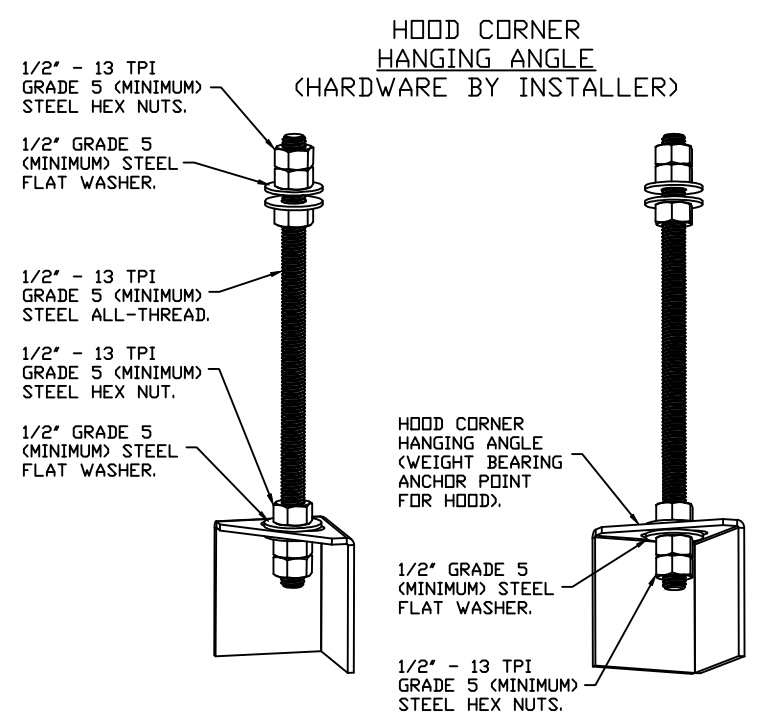
HOOD OPTIONS

HOOD NO	TAG	OPTION
1		FIELD WRAPPER 10.00' HIGH FRONT, LEFT, RIGHT. INSULATION FOR BACK OF HOOD. RISER SENSOR INSTALL 6IN PLEN. RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS. LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS. FULL DIMENSION HANGING BRACKET - FRONT.

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

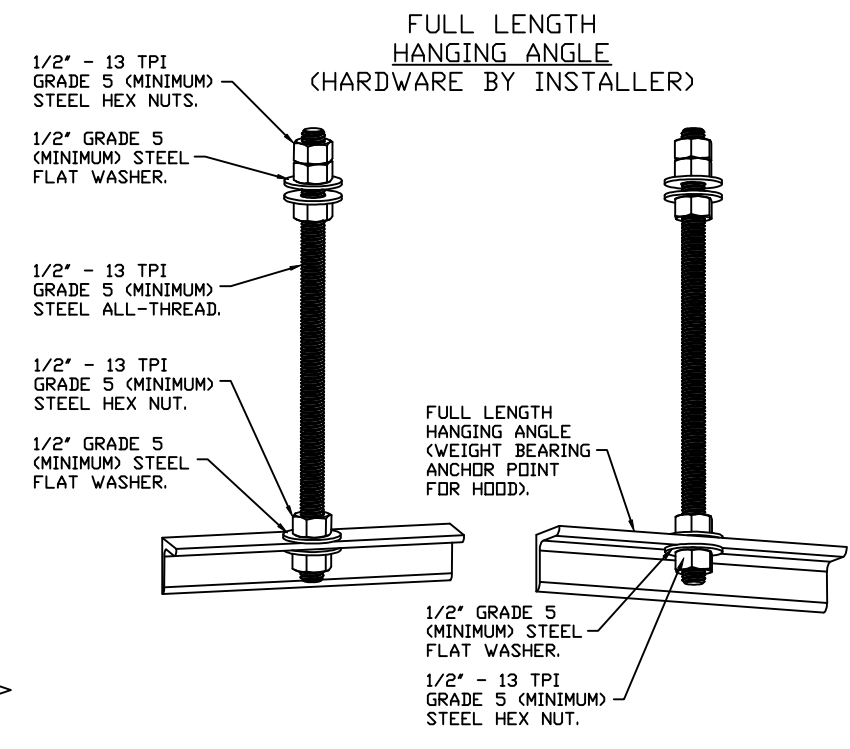


PLAN VIEW - HOOD #1
9' 4.00" LONG 5424ND-2



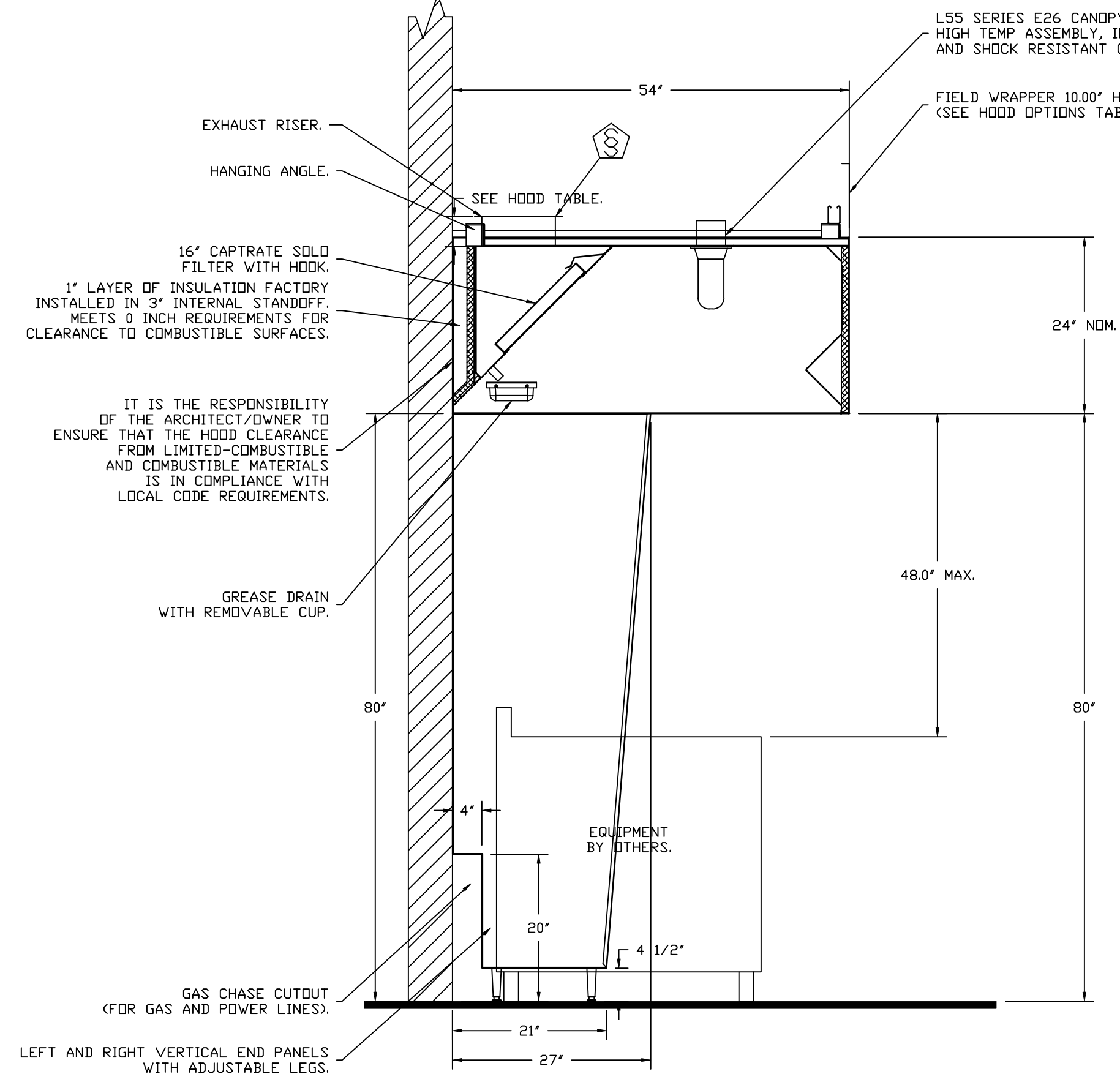
ASSEMBLY INSTRUCTIONS

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

SPECIFICATION: CAPRATE GREASE-STOP SOLID FILTER

THE CAPRATE 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.

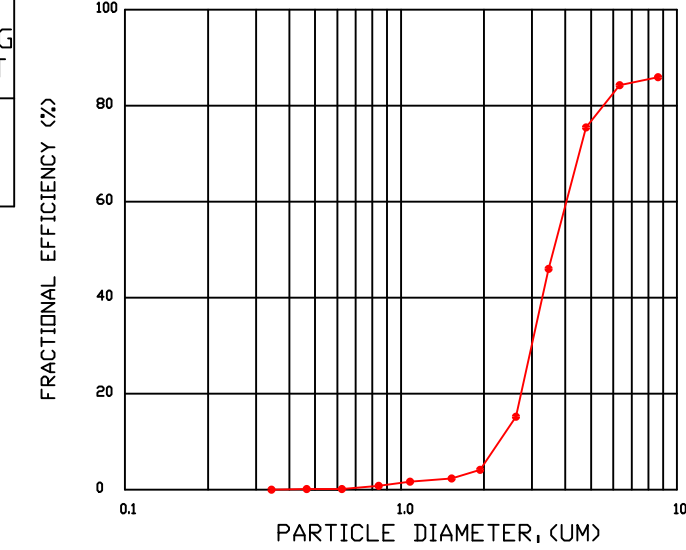
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

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

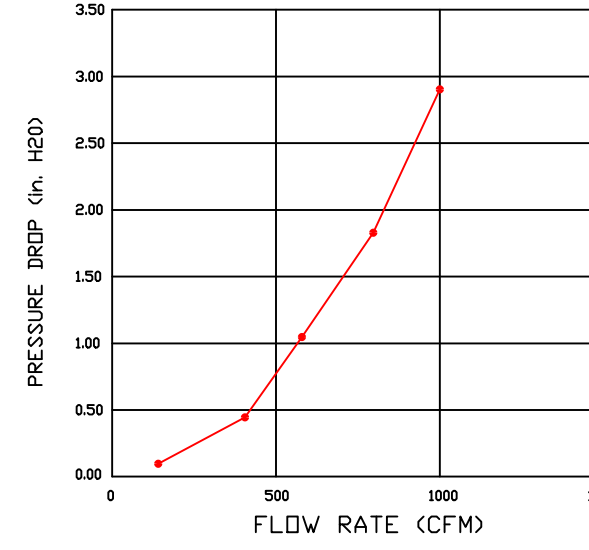
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

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

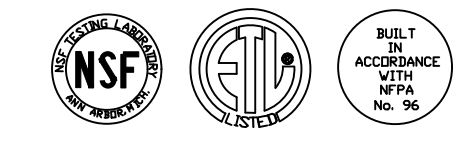
EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE



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



CLEARANCE TO COMBUSTIBLES

HOODS #	SURFACE	*CLEARANCE
1	TOP	18"
	FRONT	0"
	BACK	0"
	LEFT	18"
	RIGHT	0"

- *0" CLEARANCE TO COMBUSTIBLES CONFORMS TO UL710 STANDARD.
- HOOD MOUNTED UTILITY CABINETS REQUIRE 36" SERVICE CLEARANCE.

BOWMAN: APPROVAL CONTINGENT ON AUTHORITY HAVING JURISDICTION (AHJ) REVIEW AND APPROVAL OF THE SUBMITTED PERMIT DOCUMENTS. BOWMAN CONSULTING GROUP IS NOT LIABLE FOR ANY REVISIONS REQUIRED BY THE AHJ.



- No Exceptions Taken Accepted As Noted Rejected
 Resubmit Submit Specified Item Reviewed

Bowman Consulting Group acknowledges its limited review of this document is only for general conformance with the design concept and the information given in the Construction Documents. Corrections or comments made by Bowman Consulting Group on any shop drawings / submittals during this review do not relieve the contractor or sub-contractor from full compliance with all requirements contained in any plans, specifications, construction related contracts, or documents. Review for a specific item shall not include review of an assembly of which the item is a component. Contractor and their subcontractors are responsible for: quantities and dimensions to be conformed and correlated at the jobsite; information that pertains solely to the fabrication processes or to the means, methods, techniques, sequences and procedures of construction; coordination of the Work with that of all other trades and performing all Work in a safe and satisfactory manner.

By: Sam Frank Date: 11/15/2024

REVISIONS

DESCRIPTION	DATE

CAPTIVEAIRE
Highwoods Group
www.captiveaire.com
4641 Paragon Park Rd., Raleigh, NC, 27616 PHONE: (919) 875 - 0420 FAX: 9198750577 EMAIL: reg40@captiveaire.com

CHIPOTLE EMPIRE BLVD BROOKLYN NY_R2
1750 Bedford Avenue,
Brooklyn, NY, 11225

DATE: 11/6/2024
DWG.#: 7115877
DRAWN BY: JMB-40
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 1

FIRE SYSTEM INFORMATION - JOB#7115877

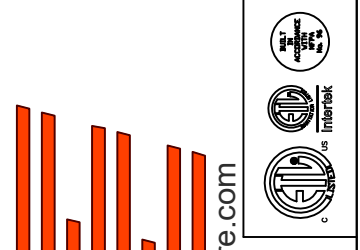
FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0	40	28	FIRE CABINET RIGHT	RIGHT, HOOD 1

FIRE SYSTEM PARTS LIST KEY

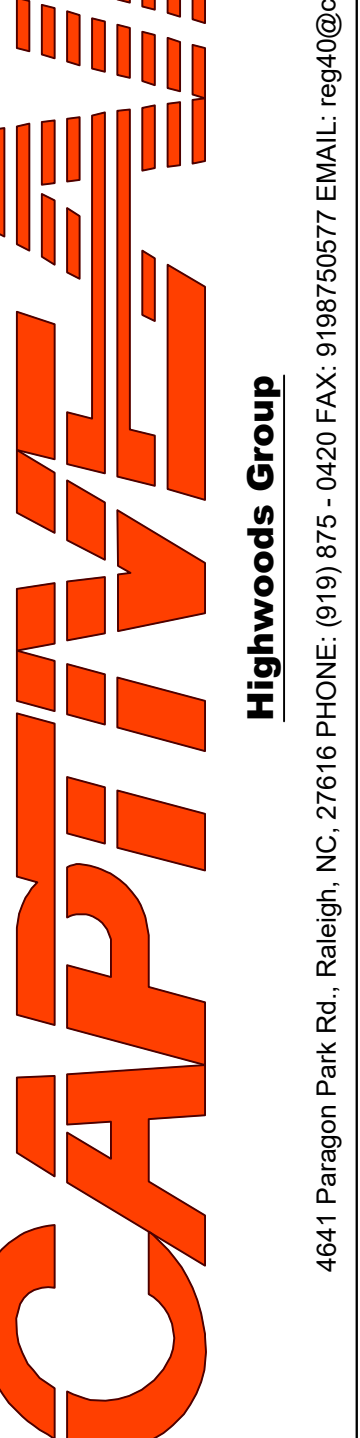
FIRE SYSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
1		0 - 0 - TANK FIRE SUPPRESSION POST-DISCHARGE PROCEDURE UTILITY CABINET LABEL SHEET.	1	0
		0 - 0 - TANK FIRE SUPPRESSION MAINTENANCE GUIDE UTILITY CABINET LABEL SHEET.	1	0
		0 - 0 - 12-F28021-32144-DT-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. ND, CLOSE ON TEMP RISE AT 360°F. (A0034310).	1	0
		0 - 0 - 32-00002 QUIK SEAL - 1/2" (UL).	1	0
		0 - 0 - 4429K153 1/2" MALE NPT TO 1/2" FEMALE NPT ELBOW, BRASS.	2	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.	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.	6	0
		0 - 0 - 9097200PC PRO PRESS PC611 1/2 PRESS TEE LD.	5	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 - 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 - B1145 3/8" BLACK IRON 90 ELL.	2	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.	6	0
		16 - 16 - DL-F NOZZLE - TANK PROTECTION APPLIANCE COVERAGE NOZZLE (INCLUDES METAL BLOW OFF CAP, LANYARD, USED WITH CHROME-PLATED PIPE).	6	0
		26 - 26 - QSA-3/8 QUIK SEAL - 3/8" (UL).	6	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

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DESCRIPTION	DATE:



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DATE: 11/6/2024

DWG.#:
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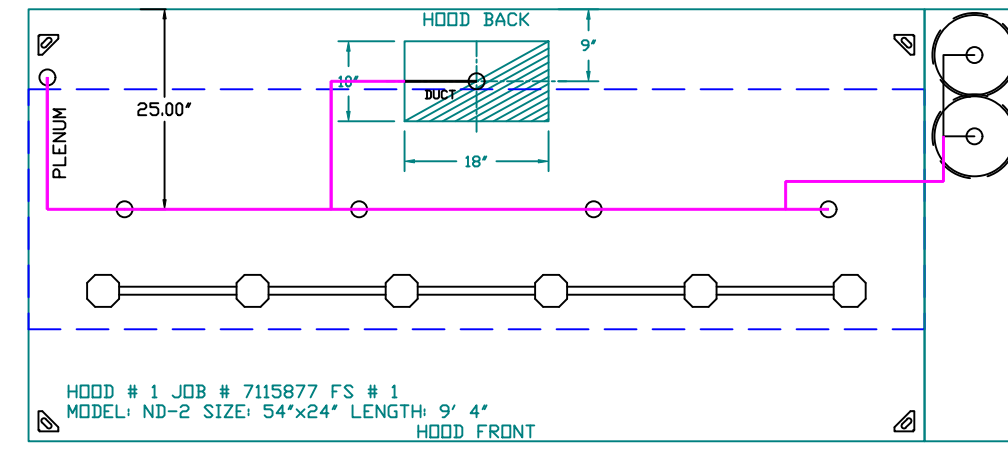
DRAWN BY: JMB-40

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

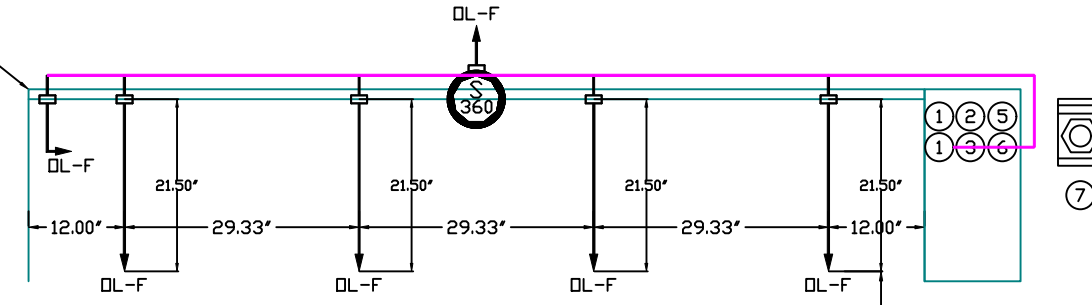
MASTER DRAWING

SHEET NO.
2

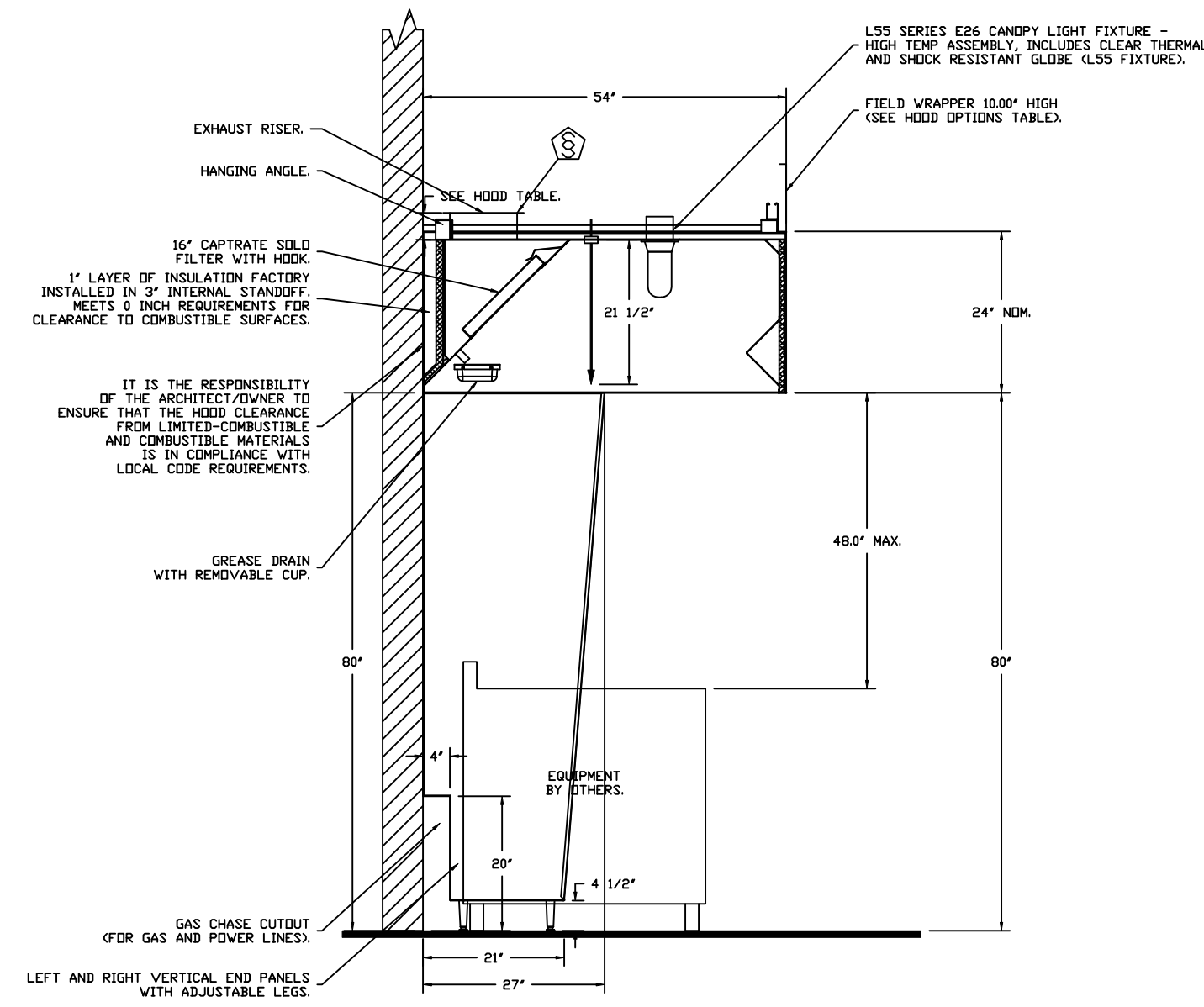
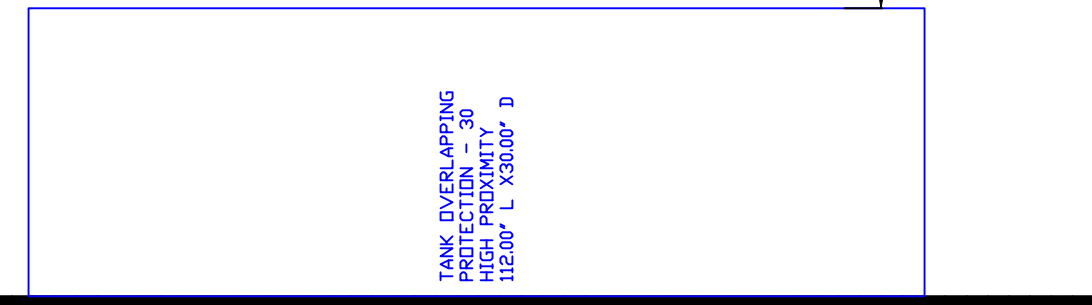
SYSTEM REQUIRES A MINIMUM OF 7 FT OF EQUIVALENT PIPE LENGTH BETWEEN TANK AND NEAREST APPLIANCE NOZZLE FOR MOST APPLIANCES. EACH 90 DEGREE ELBOW ADDS 1.3 FT OF EQUIVALENT LENGTH. SEE MANUAL FOR DETAILS.



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



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



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

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 SHELVEING, 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 #: 7115877.
- JOB NAME: CHIPOTLE EMPIRE BLVD BROOKLYN NY_R2.

SYSTEM SIZE: TANK-SP-2 DESIGN FP: 28, MAXIMUM FP: 40.
HOOD # 1 9' 4.00' LONG x 54' WIDE x 24' HIGH.
RISER # 1 SIZE: 10" x 18".
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.

AGENT DISTRIBUTION PIPING LIMITATIONS	
PIPE SECTION	MAX PIPE LENGTH (FT)
MAX SUPPLY LINE TO FIRST OVERLAPPING NOZZLE	42
OVERLAPPING NOZZLE APPLIANCE BRANCH	10
DEDICATED NOZZLE APPLIANCE BRANCH	10

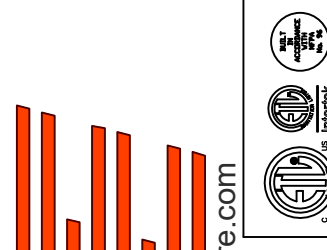
LEGEND - FIRE CABINET TANK SYSTEM

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

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.

REVISIONS

DESCRIPTION	DATE:



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1750 Bedford Avenue,
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DATE: 11/6/2024

DWG.#: 7115877

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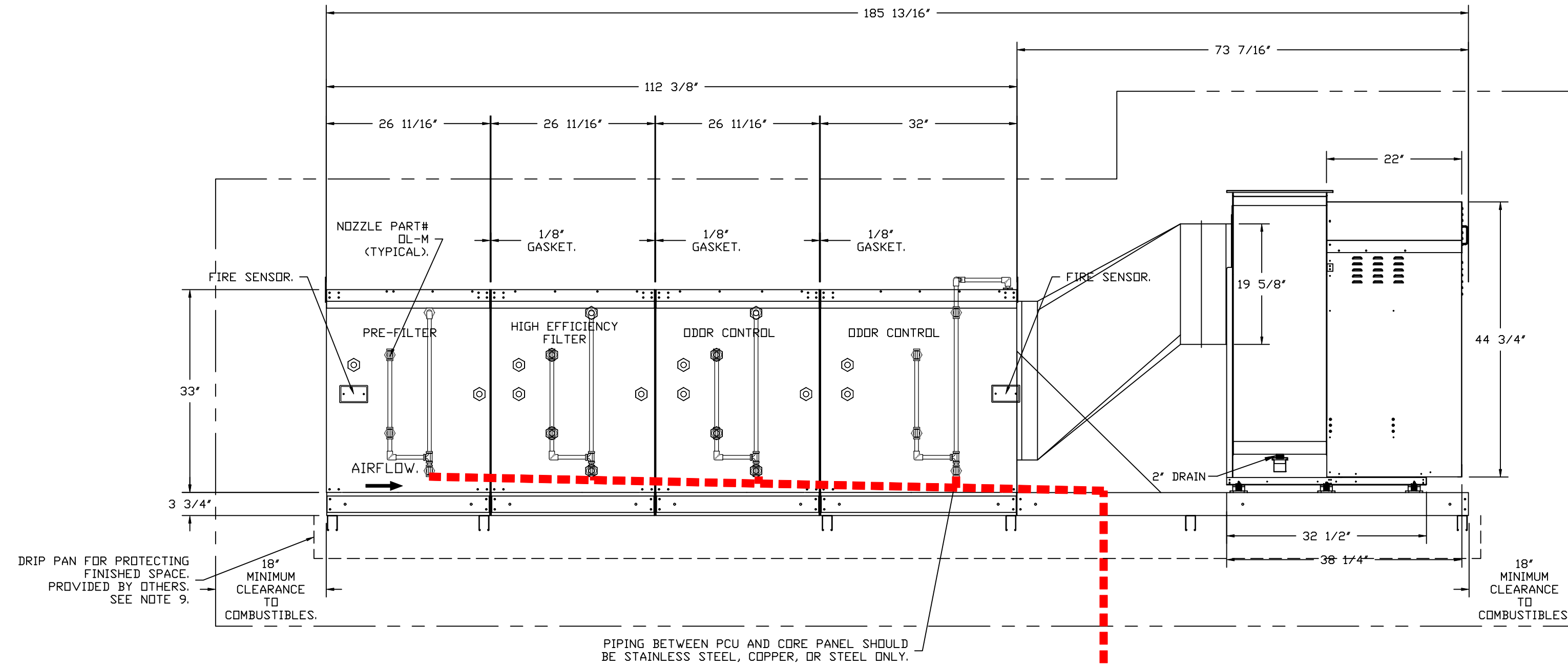
SCALE: 1/2" = 1'-0"

MASTER DRAWING

SHEET NO.

POLLUTION CONTROL UNIT FIRE SYSTEM

FAN #1 USB120DD-RM - EXHAUST FAN (EF-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 20 DL-M NOZZLES AND INCLUDES DOWNSTREAM PROTECTION. ELECTRIC FIRE DETECTOR AND NOZZLES ARE INCLUDED.



--- FIELD PIPING.

PIPING BETWEEN PCU AND CORE PANEL SHOULD BE STAINLESS STEEL, COPPER, OR STEEL ONLY.

CORE PRESSURE LOSS:
WALL MOUNT PANEL TO PCU 2.
1' FIELD PIPING.
1.44 PSI LOSS.
27 GPM.

PCU CORE WATER FLOW SUMMARY			
	PIPE DIAMETER	MINIMUM FLDW RATE (GPM)	PRESSURE DRDP (PSI)
Field Piping Wall Mount Panel to PCU 2	1	27	1.44
PCU Internal Piping	0.375	27	20

TOTAL SYSTEM INLET REQUIREMENTS		
	MINIMUM FLDW RATE (GPM)	MINIMUM PRESSURE (PSI)
TOTAL CORE INLET REQUIREMENTS	27	21.44

* OPERATING PRESSURE RANGE AT CORE PANEL GAUGE IS 21.44 TO 70 PSI.
MAXIMUM STATIC PRESSURE IS 125 PSI.

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DRAWN BY: JMB-40
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
4

EXHAUST FAN INFORMATION – JOB#7115877

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	EF-1	1	USB120DD-RM	CAPTIVEAIRE	1900	2.200	1400	DDP,PREMIUM	5.000	2.1380	3	208	15.0	828 FPM	1416	31.4
2	EF-2	1	DFA-200-CA	CAPTIVEAIRE	150	0.500	1724	GENERALPURPOSE	0.280	0.0880	1	115	1.7		12	N/A
3	EF-3	1	DFA-150-CA	CAPTIVEAIRE	100	0.500	2083	GENERALPURPOSE	0.150	0.0570	1	115	1.0		9	N/A

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION		
1	EF-1	1	UTILITY SET GREASE CUP		
		1	BI - DISCHARGE ORIENTATION VERTICAL UPPER LEFT - CW INLET SIDE		
		1	BI20 - INLET CONNECTION STANDARD 20" FLANGED GREASE DUCT		
		1	POLLUTION CONTROL UNIT WITH PREFILTER, HIGH EFFICIENCY, AND DUAL ODDR CONTROL WITH INSTALLED ELECTRICAL DETECTION SYSTEM. SIZE 2		
		1	PCU-SIZE 2 USB1-20 DD		
		1	BLUE RUBBER VIBRATION ISOLATORS FOR BI UTILITY SETS (SET OF 6)		
		1	BI20 - 20" DISCHARGE ADAPTER		
		1	2 YEAR PARTS WARRANTY		
		2	EF-2	1	FAN CONTROL - 3 AMP WHITE SPEED CONTROL FOR CFA CEILING FAN
				1	2 YEAR PARTS WARRANTY
3	EF-3	1	FAN CONTROL - 3 AMP WHITE SPEED CONTROL FOR CFA CEILING FAN		
		1	2 YEAR PARTS WARRANTY		

FAN ACCESSORIES

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

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1750 Bedford Avenue,

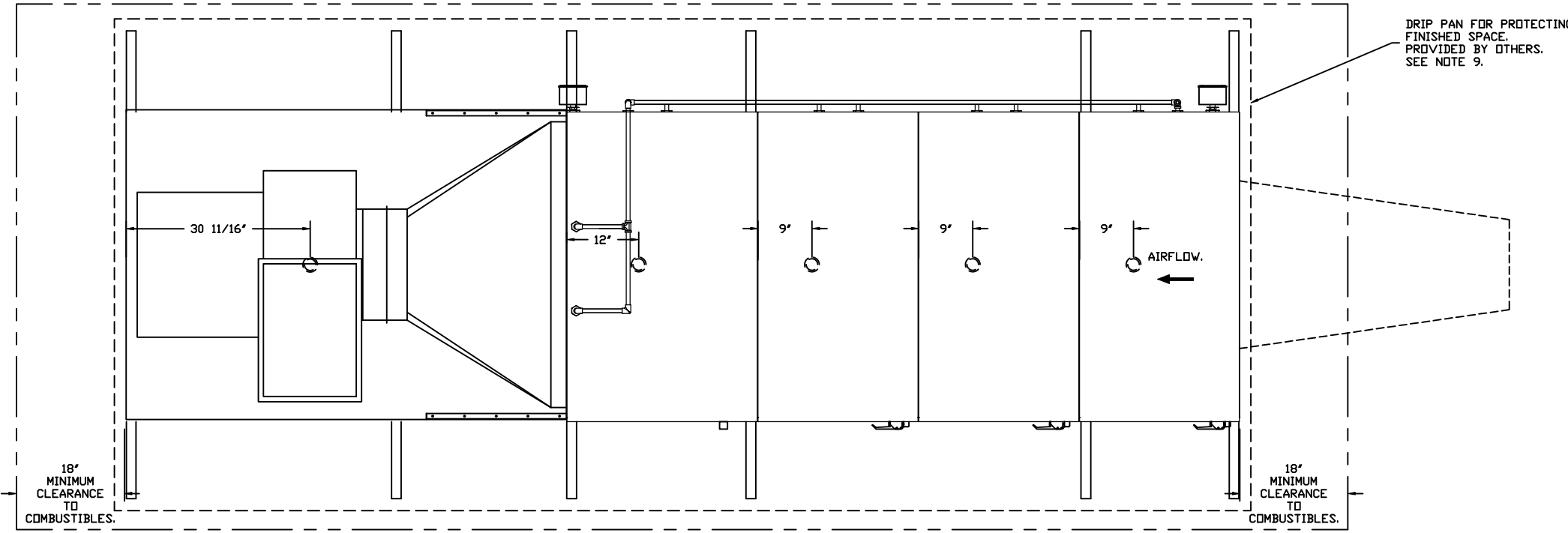
Brooklyn, NY, 11225

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SHEET NO.

5

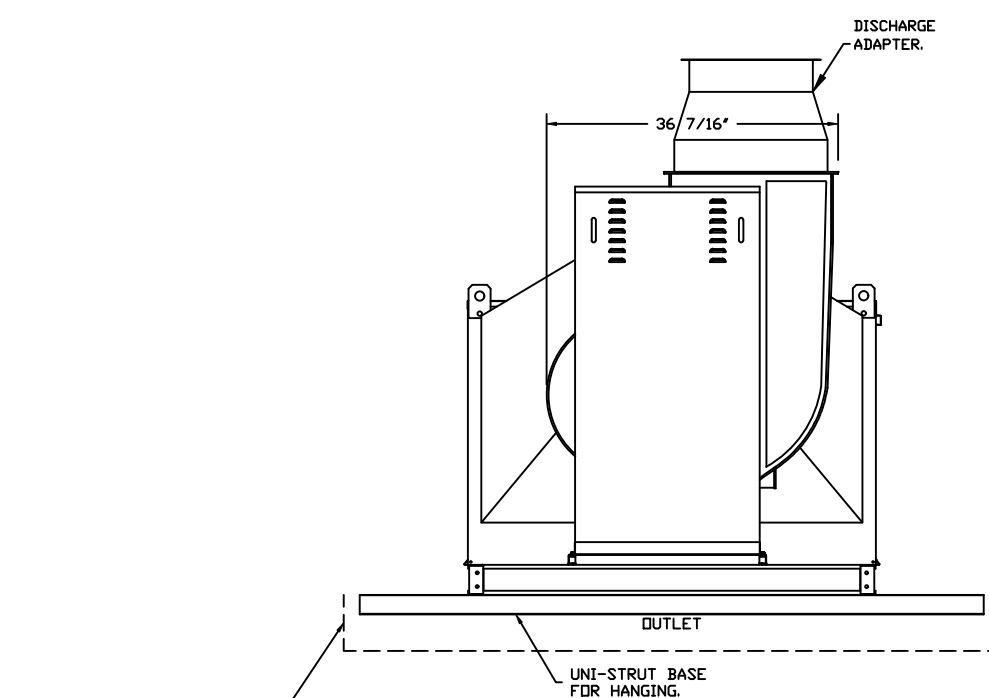
DESCRIPTION
 FAN #1 USB2000-RM - EXHAUST FAN (EF-1) - POLLUTION CONTROL UNIT WITH CORE PROTECTION FIRE SYSTEM INSTALLED, INCLUDES STEEL PRE-FILTER MODULE, HIGH EFFICIENCY MERV 15 FILTER MODULE, AND DUAL ODOR CONTROL MODULES PREPARED WITH 20 OZ. M. NOZZLES AND INCLUDES DOWNSTREAM PROTECTION, ELECTRIC FIRE DETECTOR AND NOZZLES ARE INCLUDED.



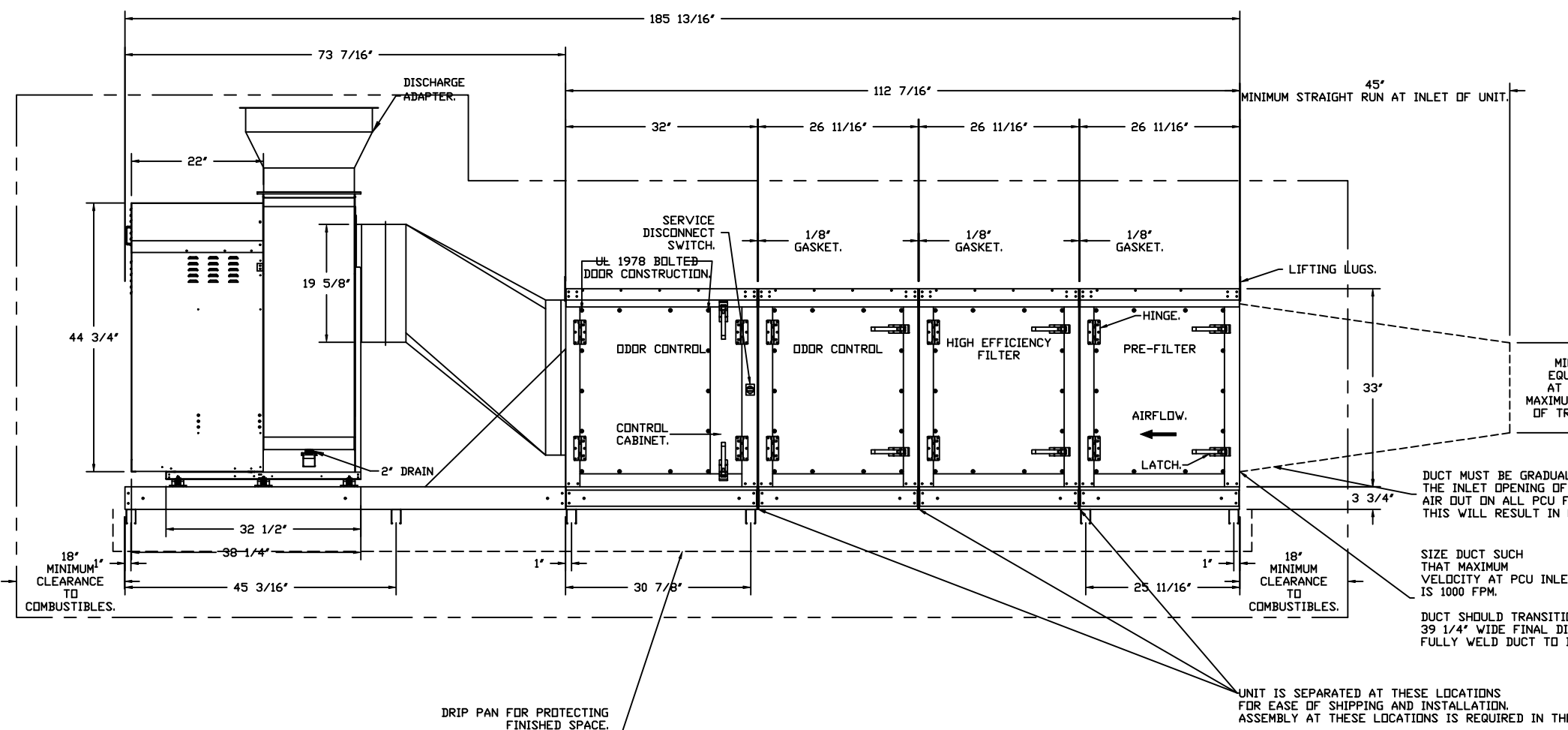
DRIP PAN FOR PROTECTING FINISHED SPACE PROVIDED BY OTHERS. SEE NOTE 9.

18\"/>

18\"/>



DRIP PAN FOR PROTECTING FINISHED SPACE PROVIDED BY OTHERS. SEE NOTE 9.

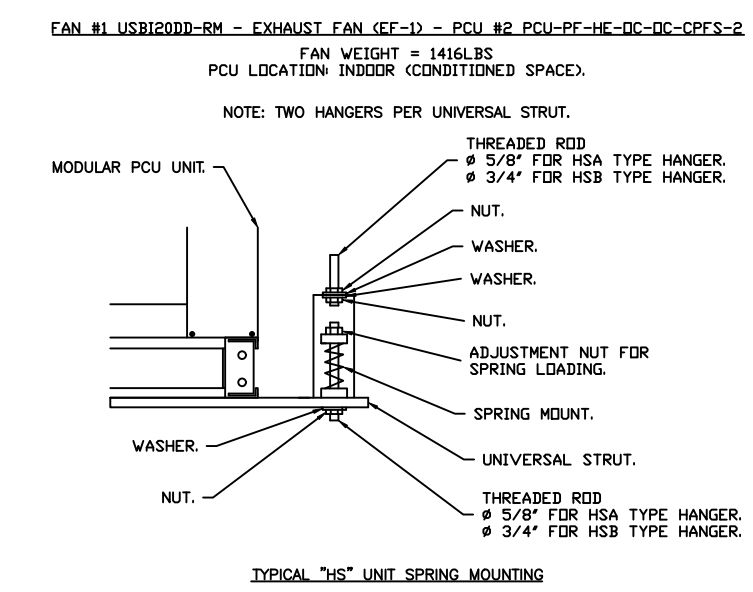


MINIMUM DIAMETER OF 15\"/>

SIZE DUCT SUCH THAT MAXIMUM VELOCITY AT PCU INLET IS 1000 FPM.

DUCT SHOULD TRANSITION TO 27 3/8\"/>

- NOTES:
1. ALL DIMENSIONS ARE NOMINAL AND GIVEN IN INCHES.
 2. C/AIS UL710 LISTED FOR GREASE DUCT INSTALLATION.
 3. DIRECT DRIVE EXHAUST ONLY UNIT WITH 20750' UTILITY SET EXHAUST FAN W/ 2\"/>

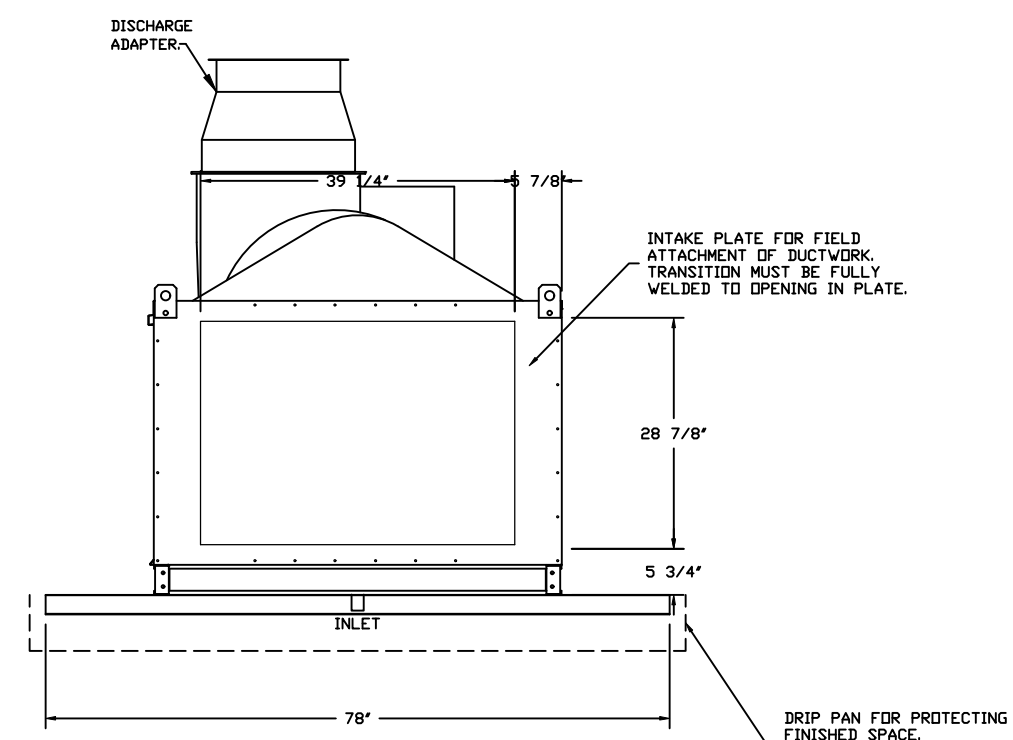


TYPICAL "1st" UNIT SPRING MOUNTING

- PCU OPTIONS:
- INDOOR HANGING CRADLE FOR SIZE 2 PCU WITH 3 OR 4 MODULES AND USB1 BLOWER. 6 PIECES OF UNI-STRUT, 78 INCHES LONG EACH. 2 HSAR00 HANGING ISOLATORS PER UNI-STRUT INCLUDED. FOR USE WITH USB1 BLOWERS.
 - POWER WITH IHC SCREEN, BACK PLATE WITH LABEL, AIRLINE/7\"/>



PLEASE REFER TO ADDITIONAL INLET NOTES 1-3



INTAKE PLATE FOR FIELD ATTACHMENT OF DUCTWORK. TRANSITION MUST BE FULLY WELDED TO OPENING IN PLATE.

DRIP PAN FOR PROTECTING FINISHED SPACE PROVIDED BY OTHERS. SEE NOTE 9.

- INLET NOTES:
1. LENGTH OF STRAIGHT DUCT ON INLET OF PCU TO BE 3 TIMES THE EQUIVALENT DUCT DIAMETER TO AVOID SYSTEM EFFECT.
 2. MAX INLET DUCT VELOCITY TO BE 1000 FPM INTO THE PCU. DUCTWORK SHOULD BE SIZED APPROPRIATELY.
 3. 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 ODDOR 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.
- HANDRAILS MUST BE INSTALLED ON THE SERVICE PLATFORM TO PROTECT MAINTENANCE PERSONNEL.

- FAN OPTIONS:
- UTILITY SET GREASE CUP
 - BI - DISCHARGE ORIENTATION
 - VERTICAL, UPPER LEFT - CW INLET SIDE
 - RIBO - INLET CONNECTION STANDARD
 - 20\"/>

PCU FILTER SPECIFICATIONS					
DESIGN CFM - 1900					
MODULE	FILTER TYPE	FILTER EFFICIENCY	QTY	SIZE	SP(CLEANS) (in WC)
1	CAPTRATE SLDL	MERV 8	6	20X25X2	0.117
2	HIGH EFFICIENCY	MERV 15	6	20X25X4	0.111
3	DC CAUSTIC IMPREGNATED	N/A	6	20X25X4	0.354
4	DC 100% CARBON	N/A	6	20X25X4	0.354
					0.936

REVISIONS

DESCRIPTION	DATE:

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Highwoods Group
 www.captive.com
 www.highwoods.com

4641 Paragon Park Rd., Raleigh, NC 27616 PHONE: (919) 375 - 0420 FAX: 9198750577 EMAIL: reg40@captive.com

CHIPOTLE EMPIRE BLVD BROOKLYN NY_R2

1750 Bedford Avenue,
 Brooklyn, NY, 11225

DATE: 11/6/2024

DWG.#:
 7115877

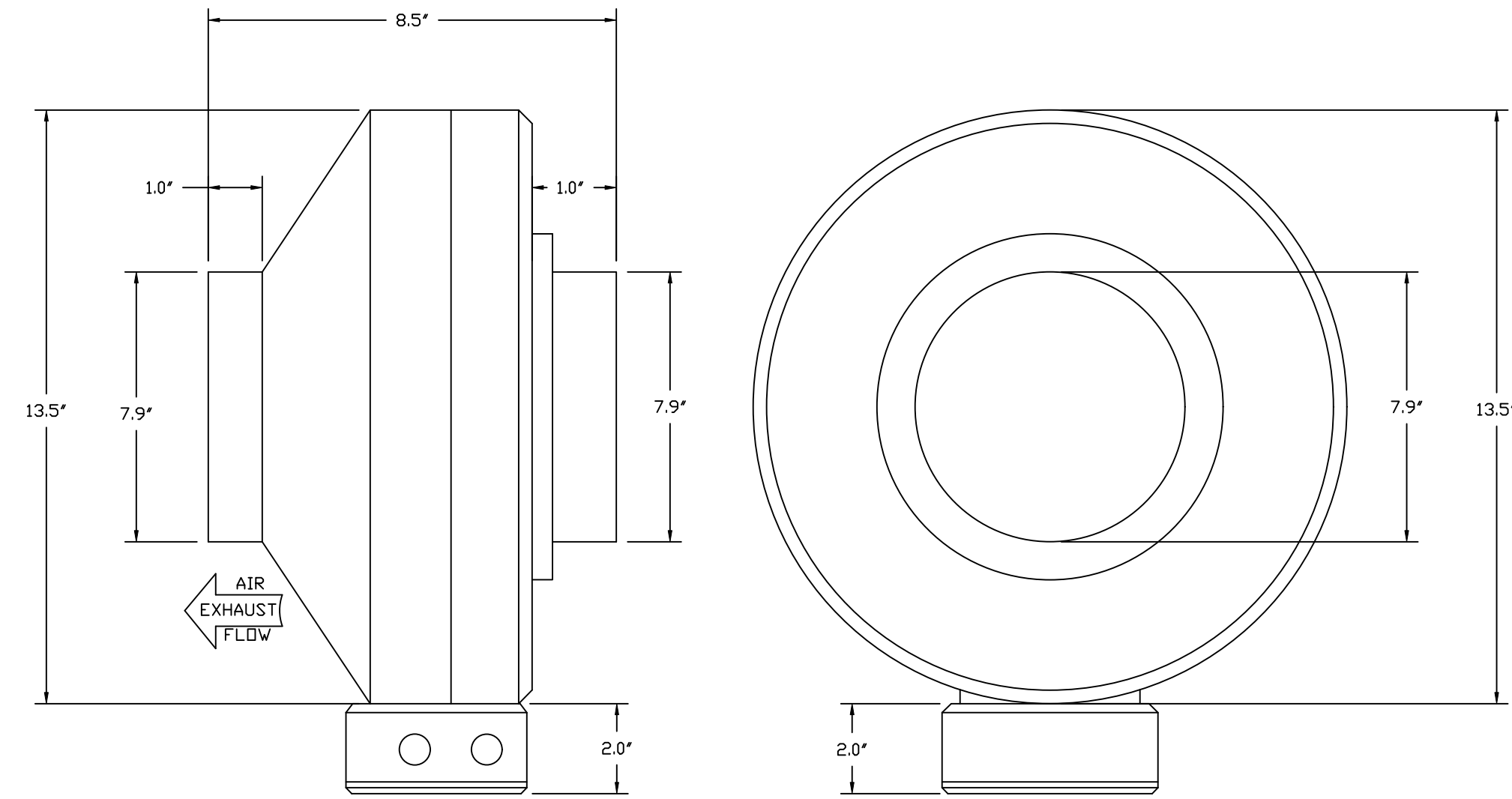
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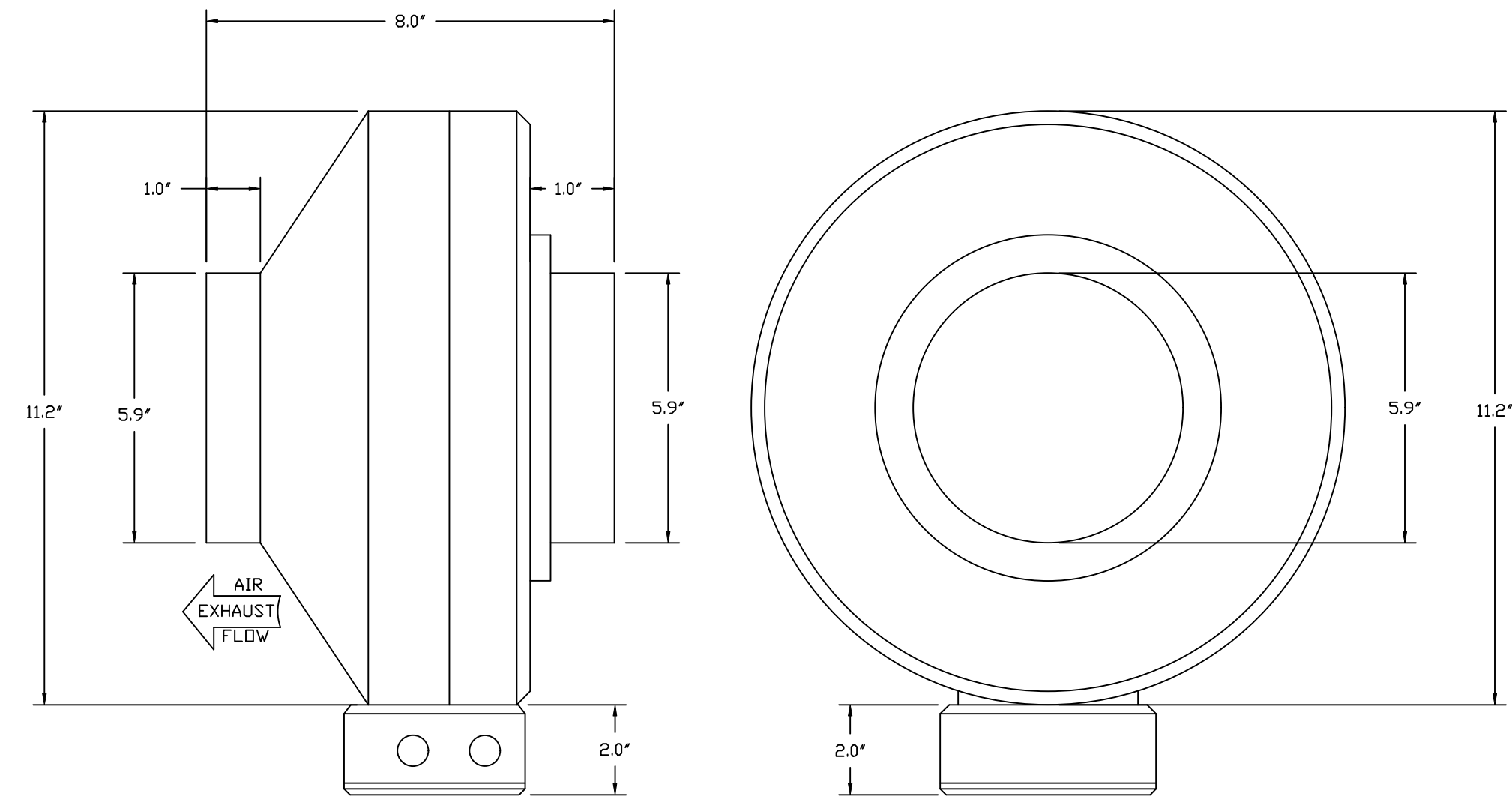
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SHEET NO.
 6

FAN #2_DFA-200-CA - EXHAUST FAN (CF-2)



FAN #3_DFA-150-CA - EXHAUST FAN (CF-3)



FEATURES:

- 20 GA. GALVANIZED STEEL HOUSING.
- STANDARD 4" - 12" ROUND DUCT CONNECTIONS.
- EASILY ACCESSIBLE J-BOX.
- UL507 LISTED.
- EXTREMELY QUIET OPERATION.

OPTIONS:

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

FEATURES:

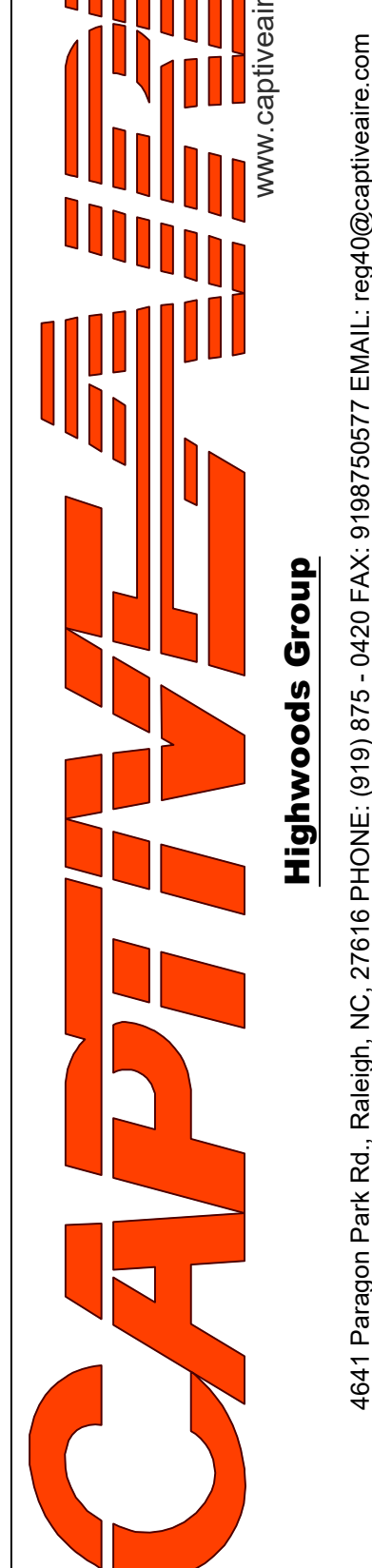
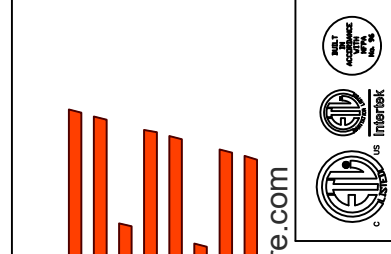
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- UL507 LISTED.
- EXTREMELY QUIET OPERATION.

OPTIONS:

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

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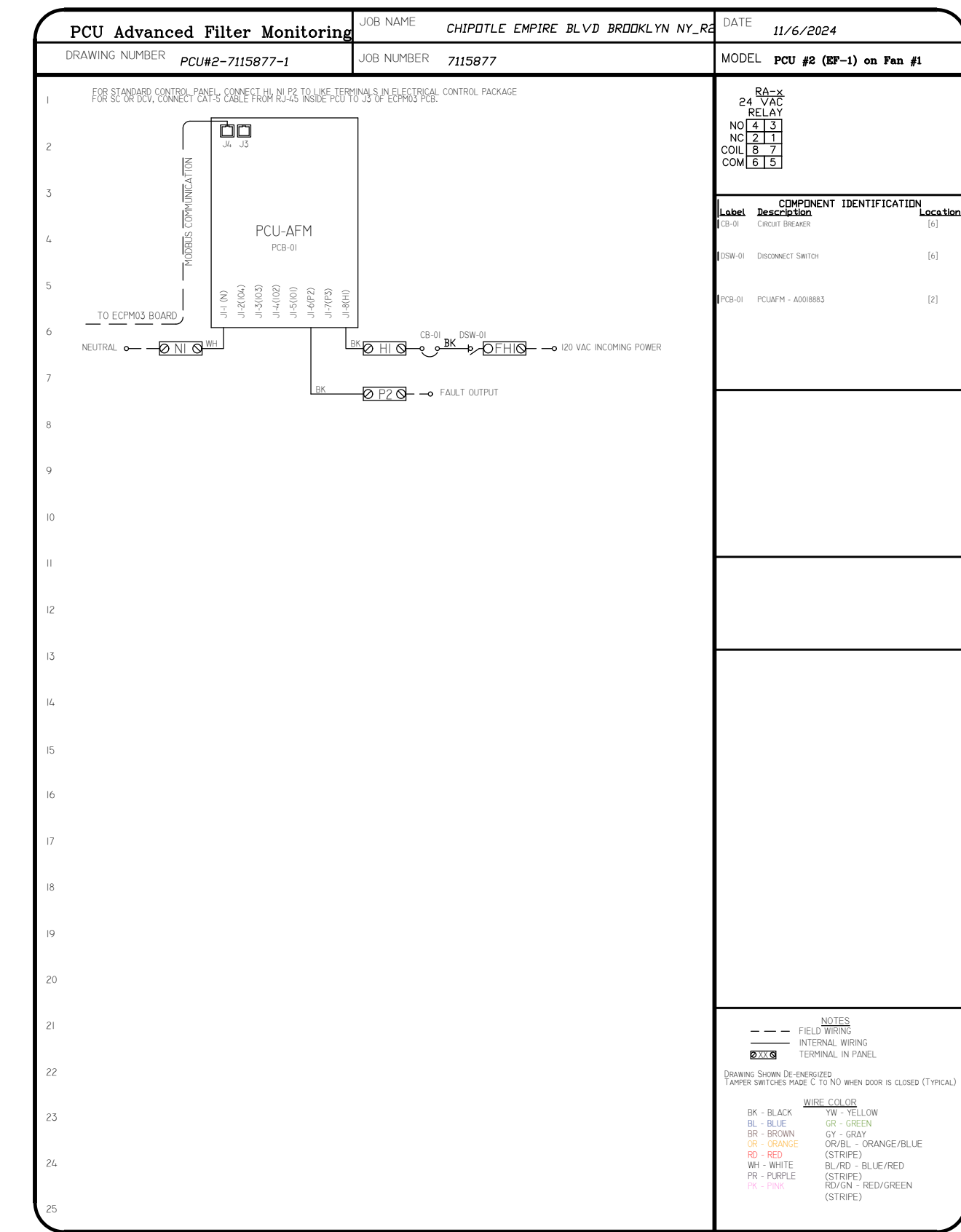
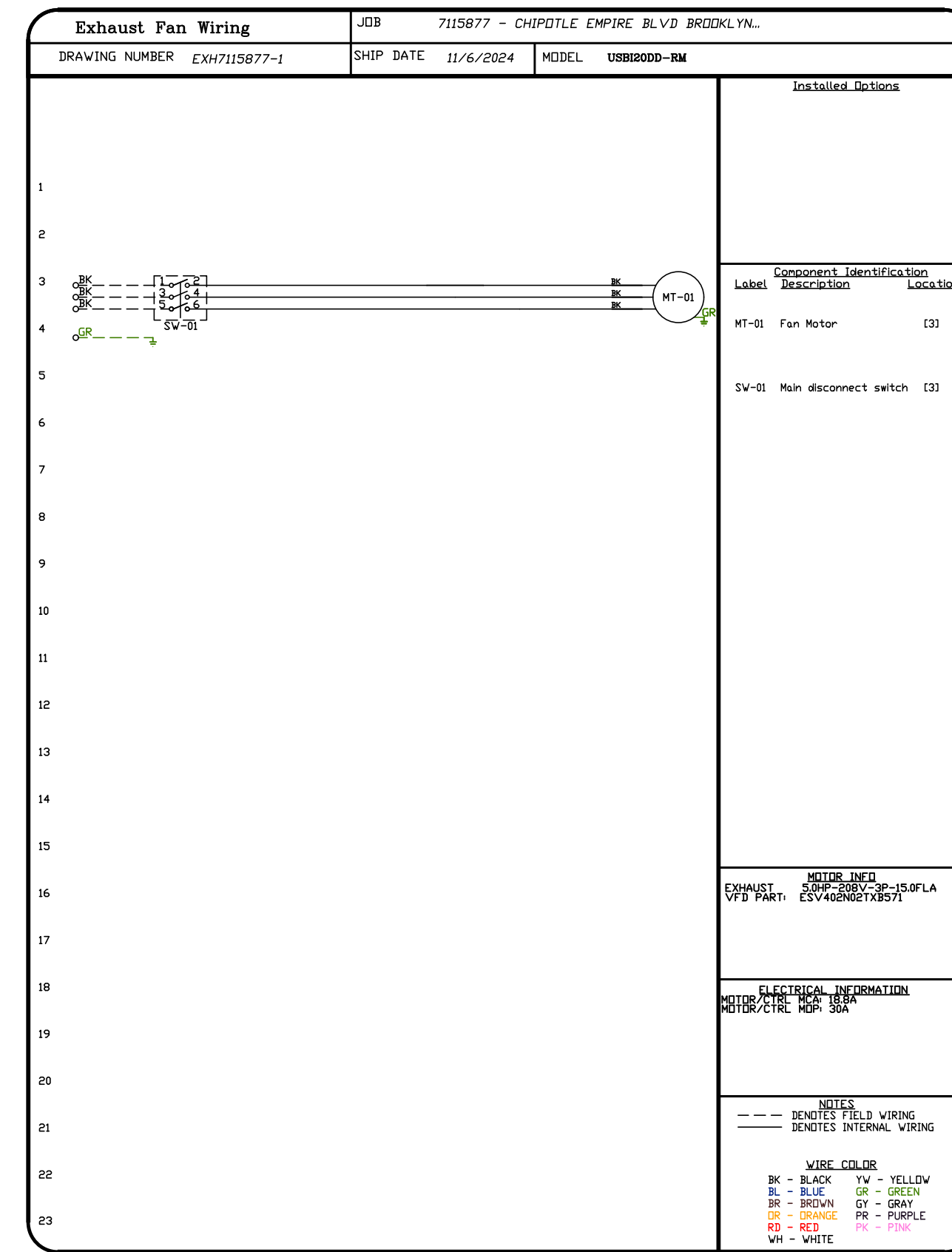
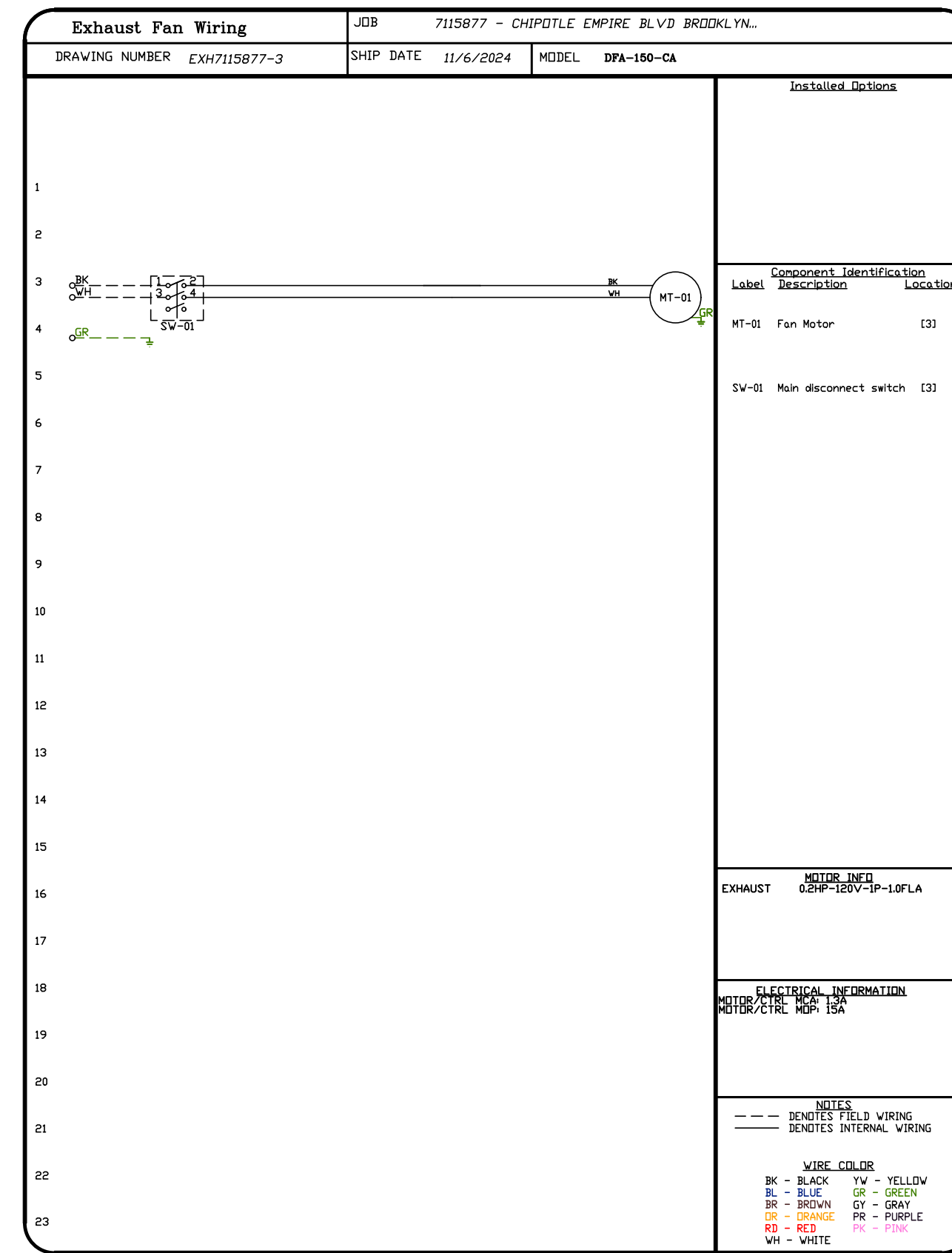
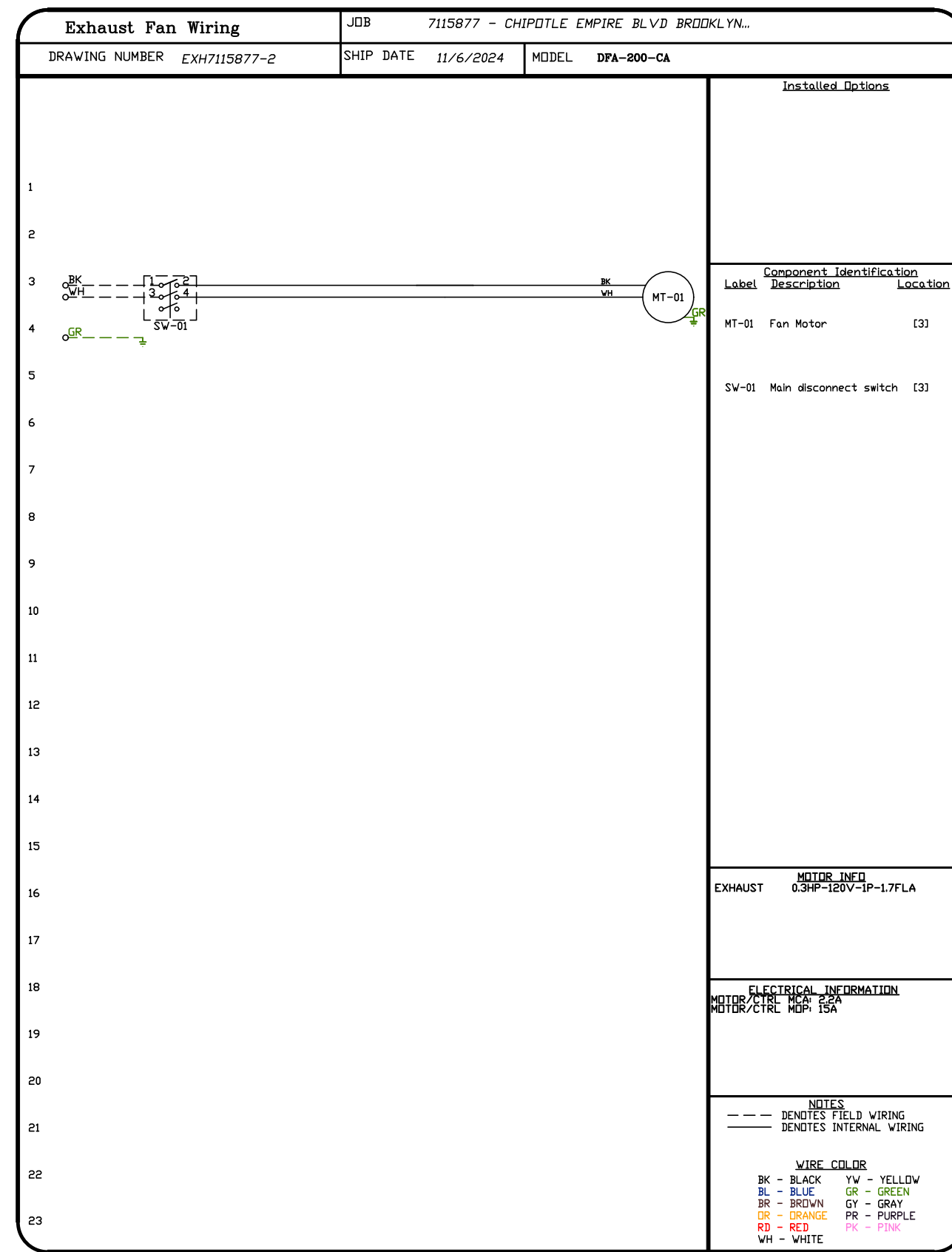
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SCALE:
3/4" = 1'-0"

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7



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www.highwoodsgroup.com

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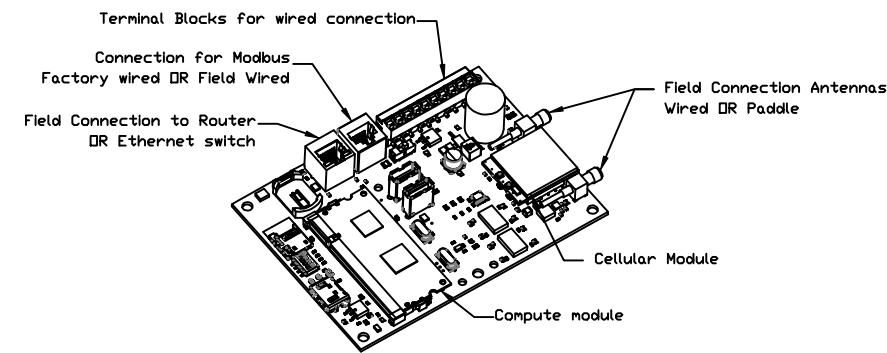
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SCALE: 3/4" = 1'-0"
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SHEET NO.
8

ELECTRICAL PACKAGE - JOB#7115877

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	#	HP	VOLT	FLA
1		SC-310110MA	UTILITY CABINET RIGHT	UTILITY CABINET RIGHT HOOD # 1	1 LIGHT 1 FAN	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY	EF-1	EXHAUST	3	5.000	208	15.0

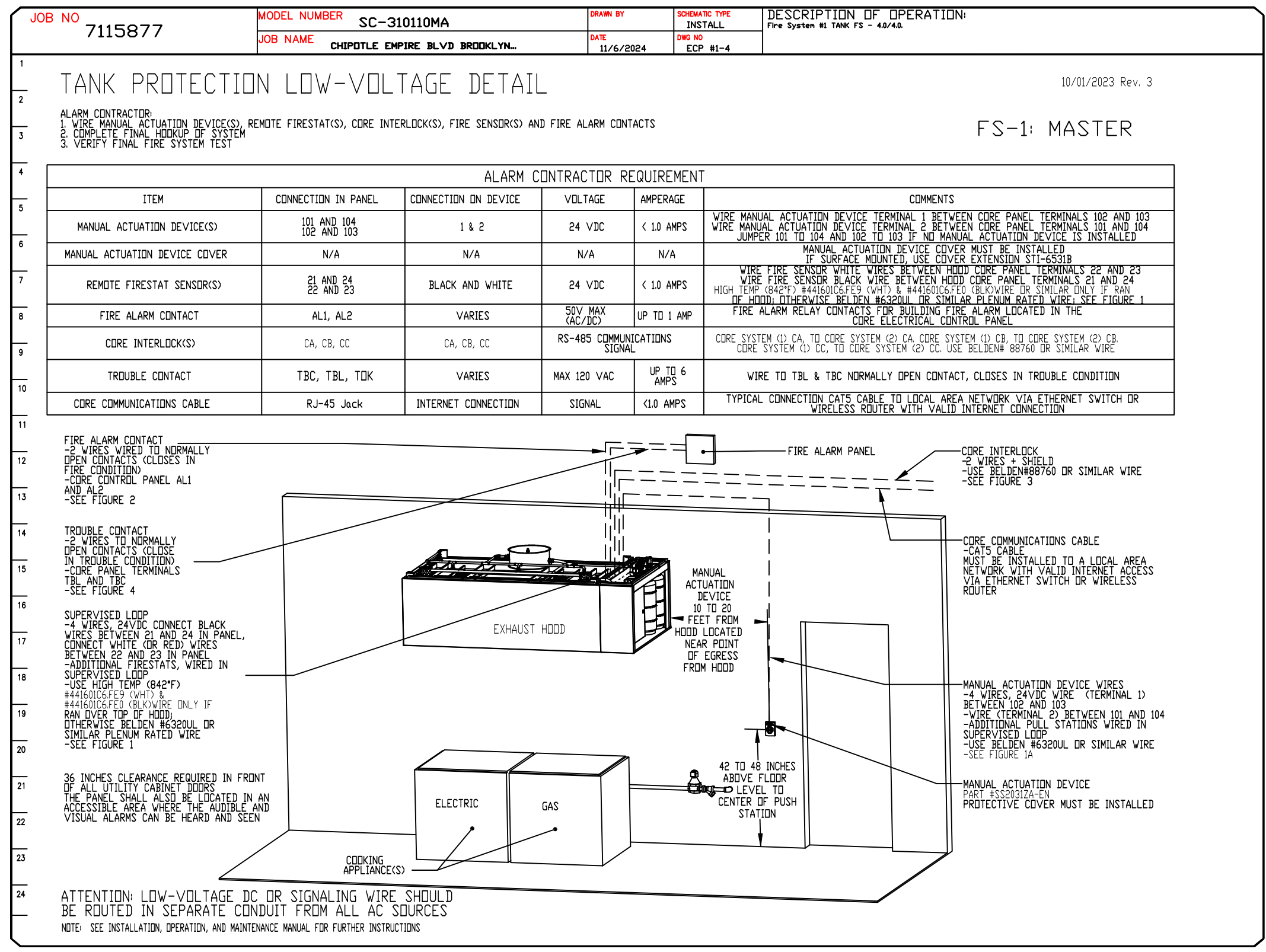
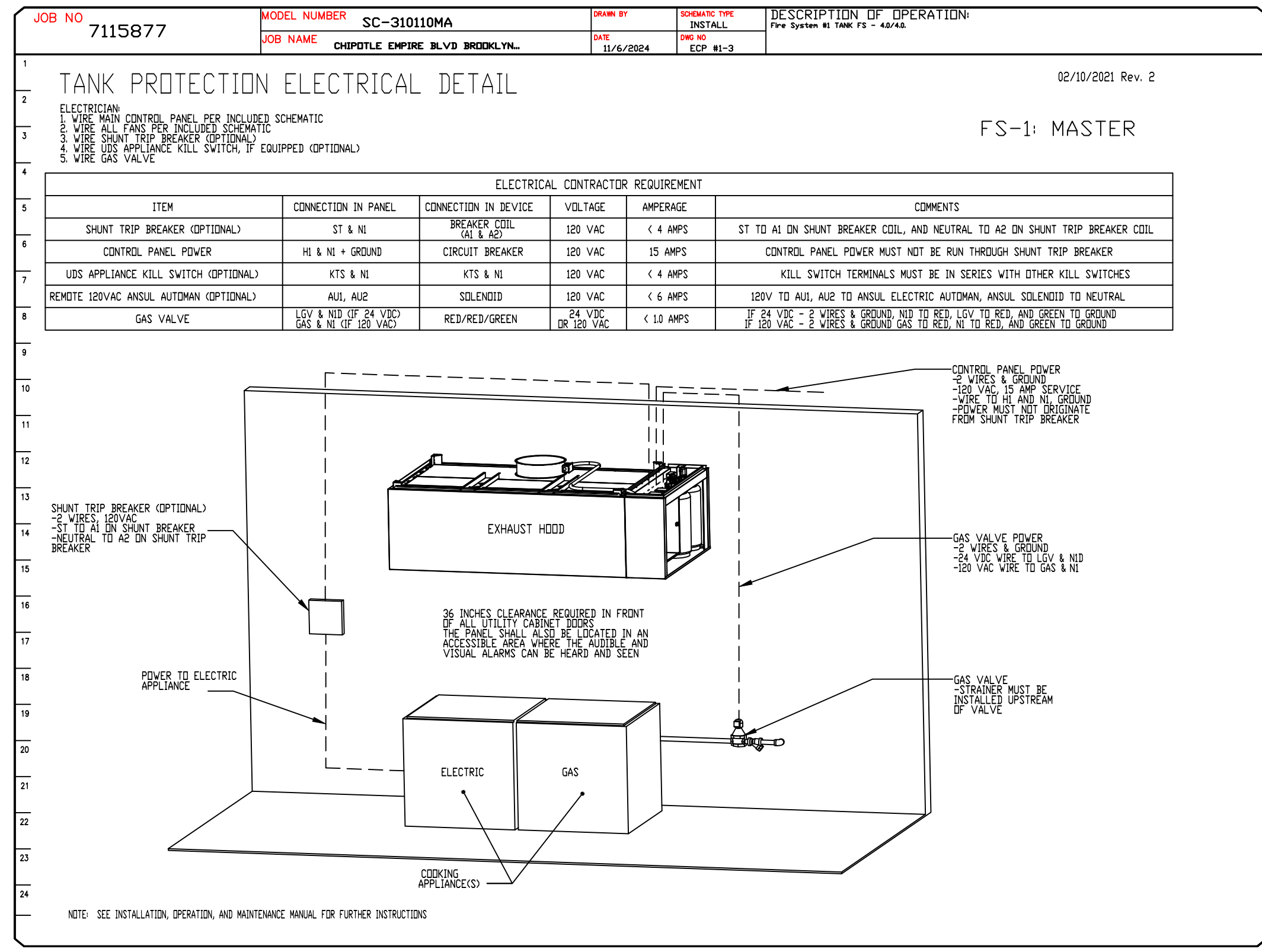
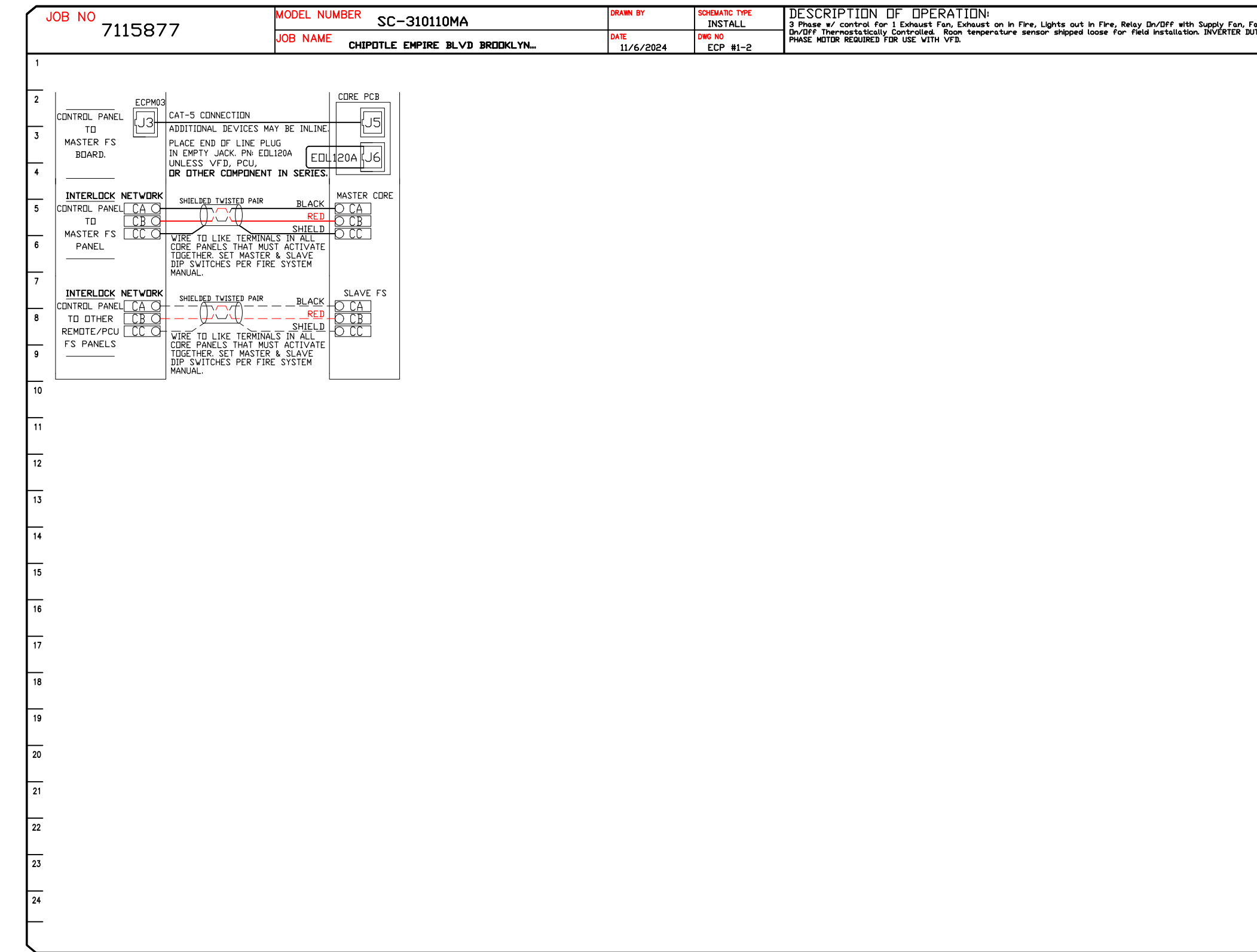
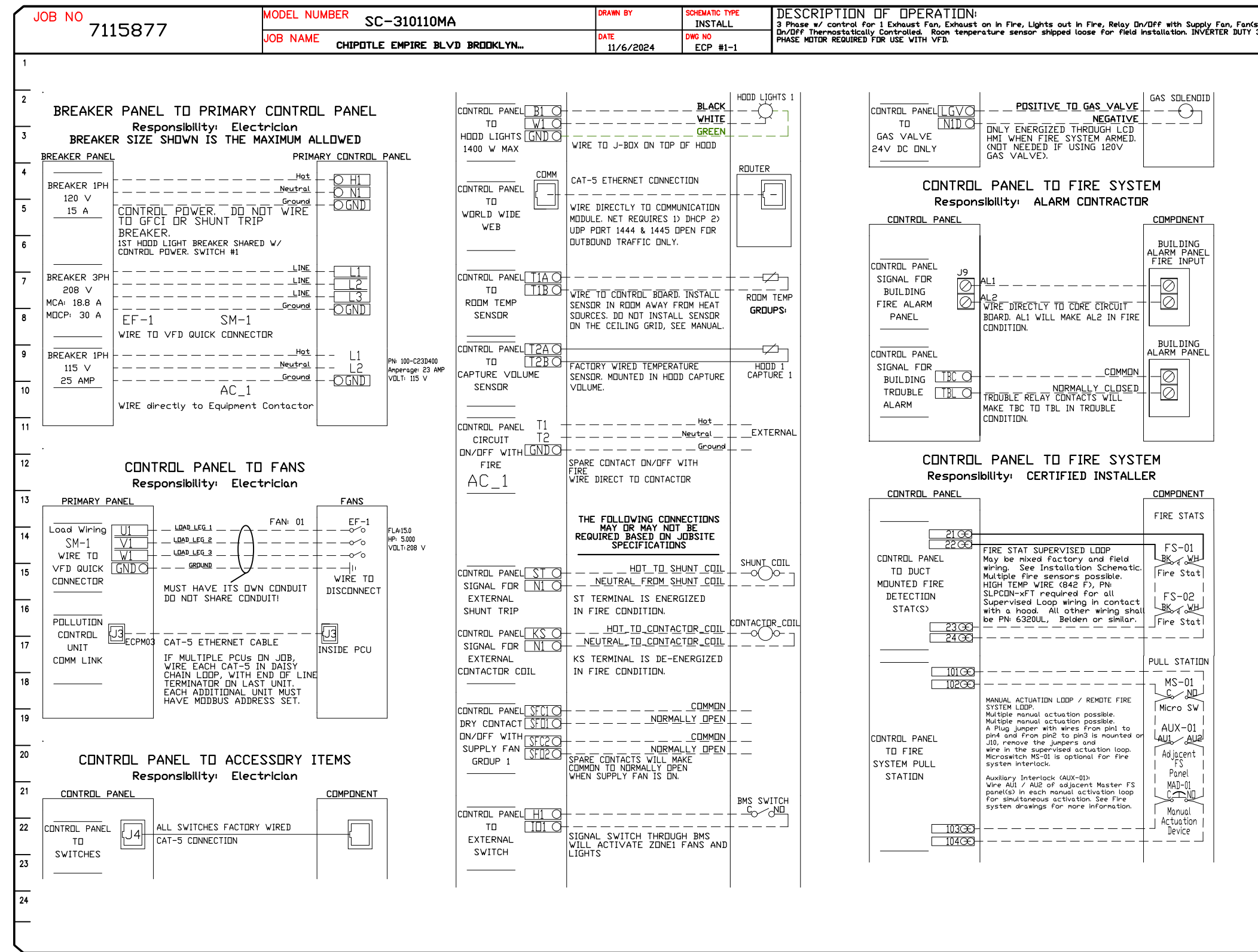


CASlink Monitor and Control

- 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	DC Packages	Function
Room Temperature	MONITOR	Room Temperature(s)	MONITOR
Duct Temperature(s)	MONITOR	Duct Temperature(s)	MONITOR
MHA Discharge Temperature	MONITOR	MHA Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR	Kitchen RTU Discharge Temperature	MONITOR
Fan Speed	MONITOR	Controller Fan(s)	MONITOR
Fan Amperage	MONITOR	Fan Status	MONITOR
Fan VFD	MONITOR	PCU Fan(s)	MONITOR
Controller Fan(s)	MONITOR	PCU Filter Clog Percentages	MONITOR
Fan Status	MONITOR	Flow Condition	MONITOR
Fan Status	MONITOR	CO2 Fire System	MONITOR
Building Pressures	MONITOR	Building Pressures	MONITOR
PCU Filter Clog Percentages	MONITOR	Fans Button(s)	MONITOR & CONTROL
Fire Condition	MONITOR	Light(s) Button(s)	MONITOR & CONTROL
CO2 Fire System	MONITOR	Wash Button	MONITOR & CONTROL
Building Pressures	MONITOR		
Prep Time Button	MONITOR & CONTROL		
Fans Button	MONITOR & CONTROL		
Light(s) Button	MONITOR & CONTROL		
Wash Button	MONITOR & CONTROL		



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CAPTIVE

Highwoods Group
4641 Paragon Park Rd., Raleigh, NC 27616 PHONE: (919) 975-0420 FAX: 9198750577 EMAIL: reg4@captivair.com

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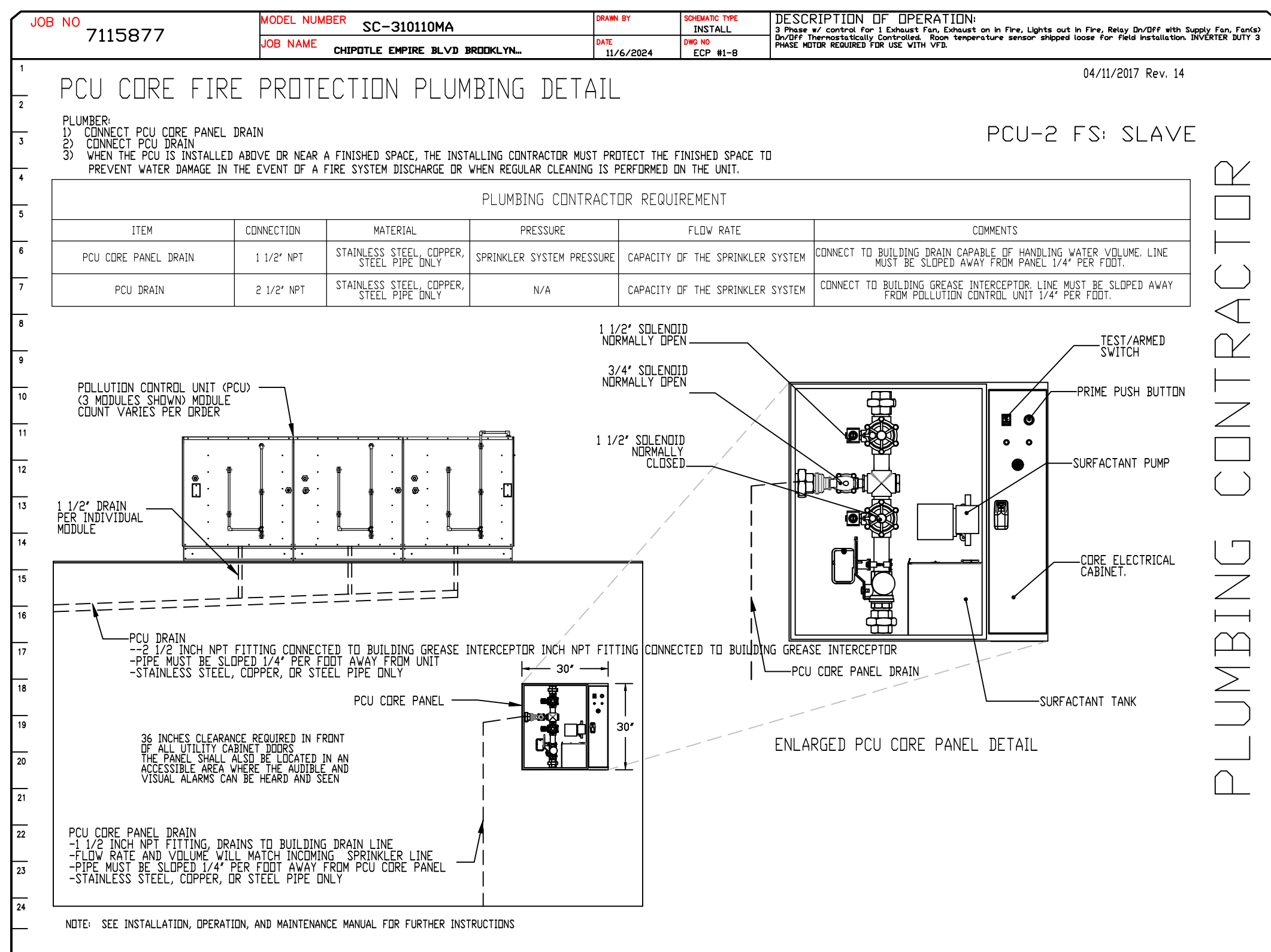
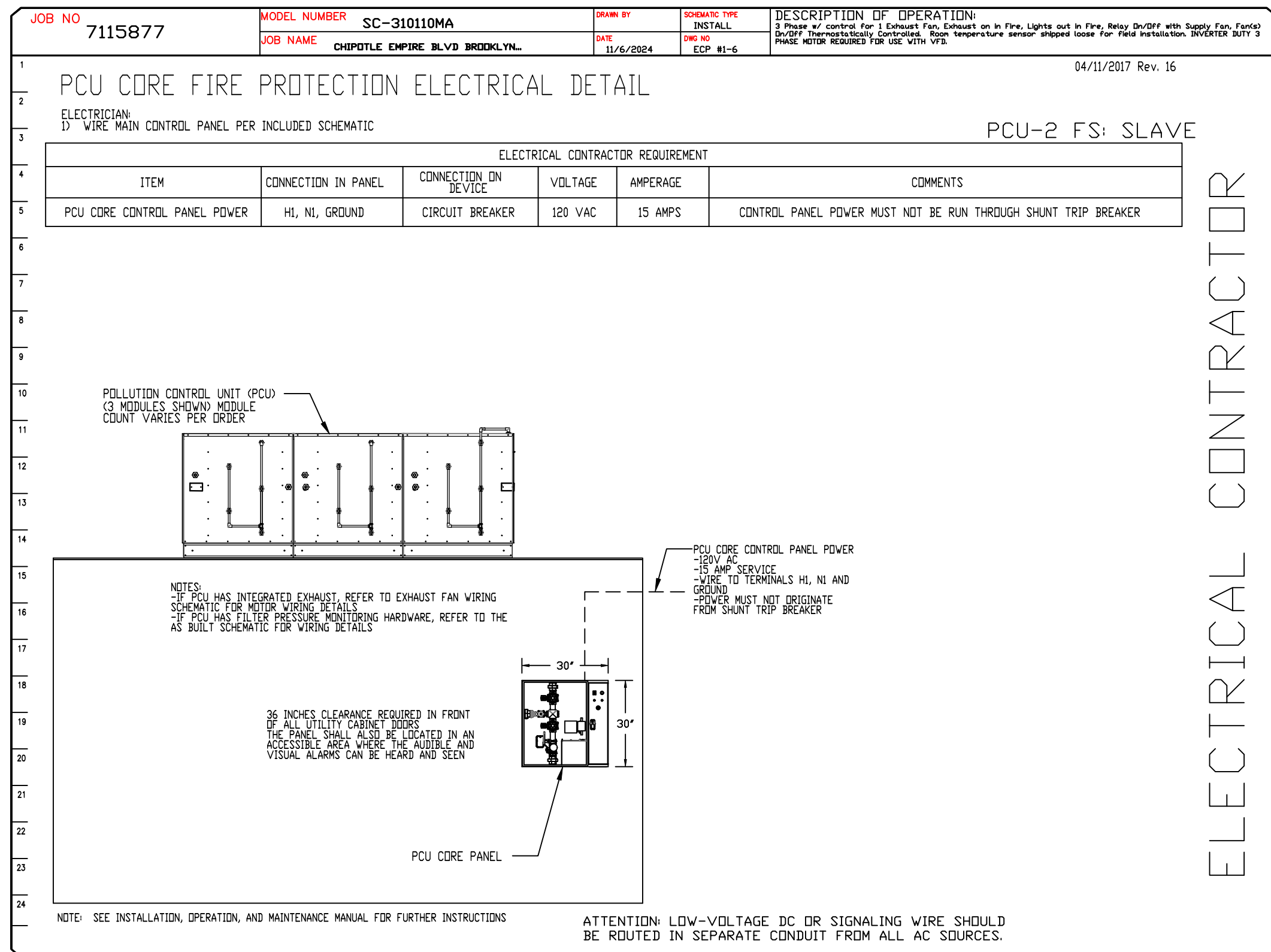
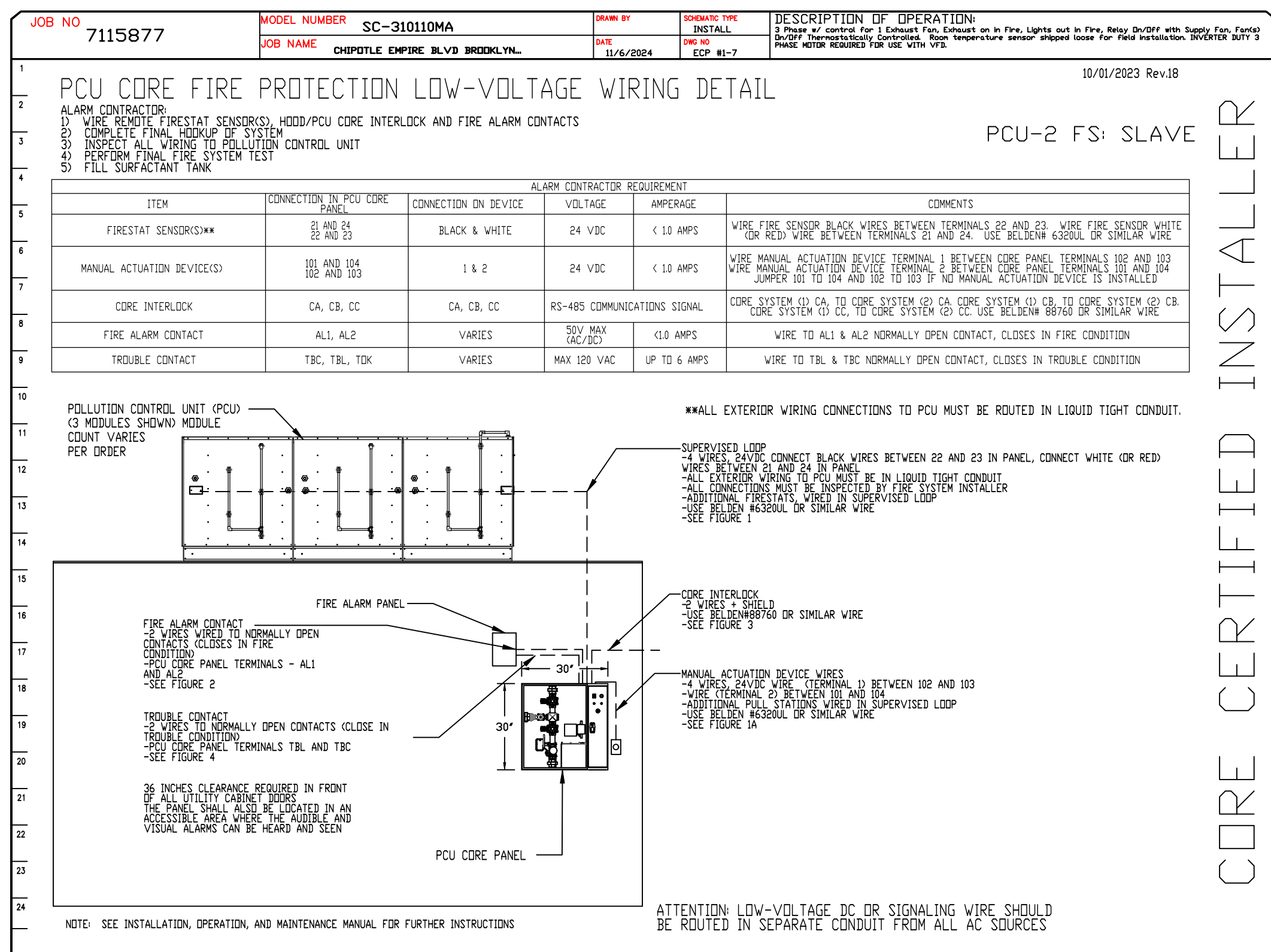
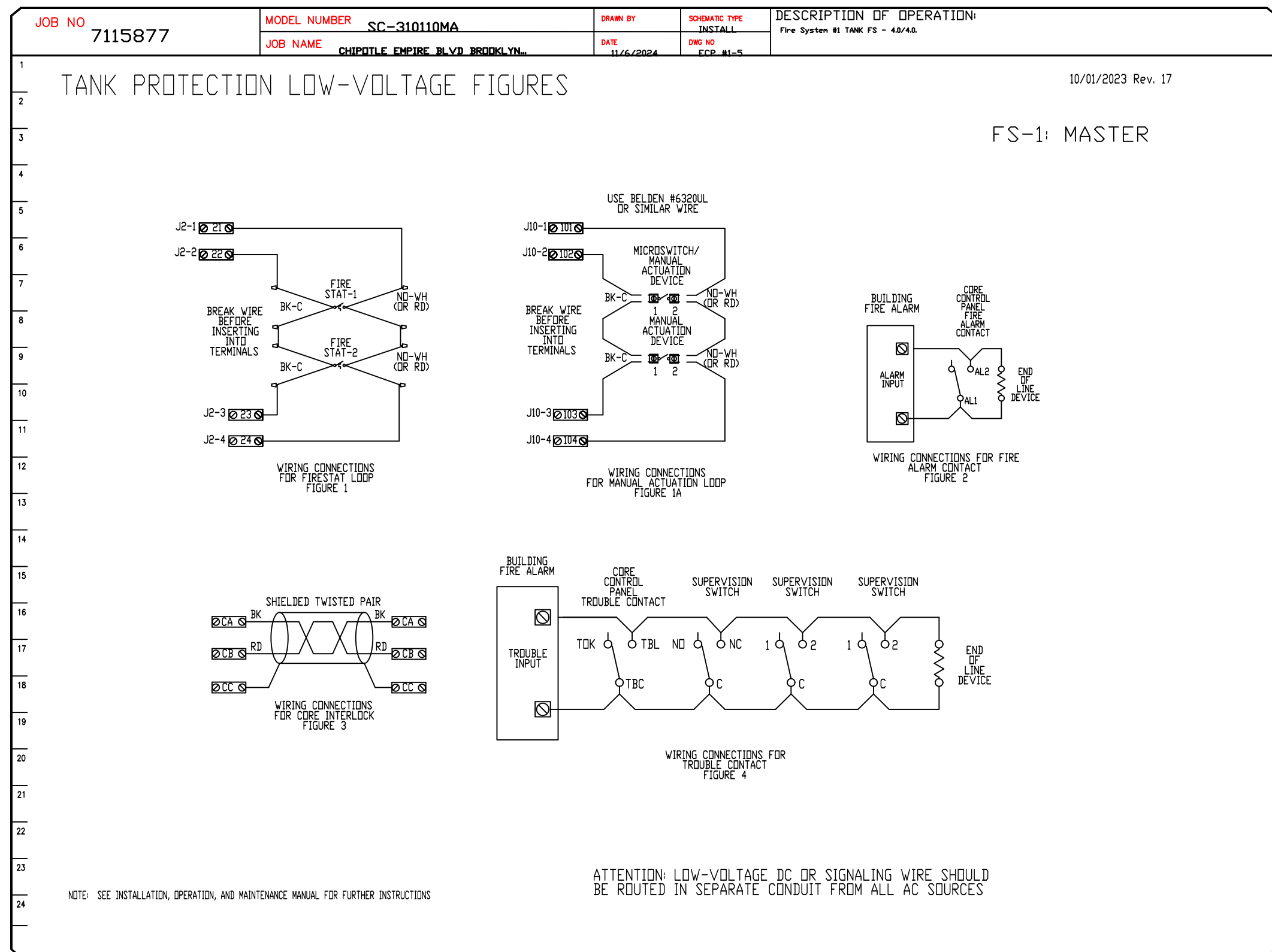
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SHEET NO.
9



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Highwoods Group
www.captivefire.com
www.highwoodsgroup.com

4641 Paragon Park Rd., Raleigh, NC 27616 PHONE: (919) 375-0420 FAX: 9198750577 EMAIL: reg40@captivefire.com

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SHEET NO. 10

BUILDING CODE DATA		
	CODE	
GENERAL	NEW YORK CITY BUILDING CODE	2022
HVAC/MECHANICAL	NEW YORK CITY MECHANICAL CODE	2022
PLUMBING	NEW YORK CITY PLUMBING CODE	2022
ELECTRICAL	NEW YORK CITY ELECTRIC CODE	2022
FIRE PROTECTION	NEW YORK CITY FIRE CODE	2022
	NFPA STANDARDS	CURRENT
FUEL	NEW YORK CITY FUEL GAS CODE	2022
ENERGY	NEW YORK CITY ENERGY CONSERVATION CODE	2022
LOCAL AMENDMENTS	N/A	N/A
NOTES:		
A. ALL WORK PERFORMED SHALL COMPLY WITH THE REQUIREMENTS OF THE LISTED CODES, LOCAL CODE AMENDMENTS, AND REFERENCED STANDARDS AS ENFORCED BY THE AUTHORITY HAVING JURISDICTION (AHJ).		
B. ALL WORK SUBJECT TO INSPECTION BY THE AHJ AT THE PROJECT SITE FOR COMPLIANCE		

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF A RESTAURANT TENANT FINISH OF AN EXISTING BUILDING. THE NEW MECHANICAL WORK INCLUDES A NEW HEAT PUMP SYSTEM, PROVIDING THE HEATING, COOLING, MAKE-UP AIR, AND VENTILATION FOR THE SPACE, A NEW GREASE EXHAUST HOOD AND EXHAUST FAN AND A NEW EXHAUST FAN SERVING THE RESTROOMS.

LIST OF SPECIAL & PROGRESS INSPECTIONS

SPECIAL INSPECTIONS:

- DEMOLITION [BC 1705.25.5.1]
- FIRE RESISTANT PENETRATIONS AND JOINTS [BC 1705.17]
- MECHANICAL SYSTEMS [BC 1714.16]
- SPRINKLER SYSTEMS [BC 1704.23]
- TENANT PROTECTION PLAN COMPLIANCE [BC 1705.26]

PROGRESS INSPECTIONS:

- ENERGY CODE COMPLIANCE INSPECTIONS [BC 110.3.5]
 - VESTIBULES (IUA9)
 - HVAC-R AND SERVICE WATER HEATING EQUIPMENT (IB3)
 - HVAC-R AND SERVICE WATER HEATING SYSTEM CONTROLS (IB4)
 - HVAC-R AND SERVICE WATER PIPING DESIGN AND INSULATION (IB5)
 - DUCT LEAKAGE TESTING, INSULATION AND DESIGN (IB5)
 - INTERIOR LIGHTING POWER (IIC3)
 - LIGHTING CONTROLS (IIC5)
 - MAINTENANCE INFORMATION (IID1)
- FINAL [28-116.2.4.2, BC109.5 AND DIRECTIVE 14/1975 AND 1 RCNY]

SECTION 15732 - PACKAGED ROOFTOP AIR-CONDITIONING UNITS

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- Submittals: Product Data and Shop Drawings.
- Comply with ASHRAE 15.
- EER: Equal to or greater than prescribed by the energy code adopted by the Authority Having Jurisdiction.
- Warranties: Submit a written warranty, signed by the manufacturer, agreeing to the repair or replacement of components that fail within 5 years of Substantial Completion.

PART 2 - PRODUCTS

2.1 PACKAGED UNITS, 5 TO 20 TONS

- Factory assembled and tested, consisting of compressors, condensers, evaporator coils, condenser and evaporator fans, refrigeration and temperature controls, filters, and dampers.
 - Refer to Rooftop Heating/Cooling Unit Schedule on drawing M600 for capacities, and manufacturers.
 - Evaporator Fans: Belt or direct driven, forward curved centrifugal.
 - Exhaust/Relief Fans: Direct drive, forward curved centrifugal or propeller.
 - Condenser Fans: Direct drive propeller.
 - Refrigerant Coils: Aluminum fins and copper coil.
 - Compressors: Serviceable hermetic or fully hermetic, with safety controls, hot gas bypass, and timed off controls.
 - Heat Exchangers: Gas fired, with gas controls, electronic ignition, high limit cutoff, and forced draft proving switch.
 - Economizer controls (Comparative Enthalpy, 100% capacity).
 - Smoke Detectors: Photoelectric in supply and/or return as called for in schedule on sheet M600.
 - Operating Controls: Two stage heating and two stage cooling on units 7-1/2 tons and over.
 - Roof curb.
 - Control Wiring from T-stat to rooftop unit: Shall be 18ga / 7 conductor, rated for plenum applications.
 - Control Wiring from T-stat to remote sensor: Shall be a separate 18ga / 2 conductor shielded, rated for plenum applications.

PART 3 - EXECUTION

3.1 INSTALLATION

- Install units level and plumb and firmly anchored.
- Connect gas piping to burner with pipe same size as gas train inlet, and provide union with sufficient clearance for burner removal and service.
- Install ducts to termination in roof mounting frames. Terminate ducts through roof structure.
- Connect units to wiring systems and to ground.

END OF SECTION 15732

SECTION 15810 - DUCTS AND ACCESSORIES

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- Submittals: Product Data for fire and smoke dampers.
- Comply with NFPA 90A for systems serving spaces more than 25,000 cu. ft. in volume or building Types II, IV, and V construction more than 3 stories in height.
- Comply with NFPA 90B for systems serving spaces in 1 or 2 family dwellings or serving spaces less than 25,000 cu. ft..
- Comply with NFPA 96, "Ventilation Control and Fire Protection of Commercial Cooking Operations," for kitchen hood ducts.
- Comply with UL 181 and UL 181A for ducts and closures.
- Testing, Adjusting, and Balancing Agency Qualifications: AABC certified (to be furnished by Tenant).

PART 2 - PRODUCTS

2.1 DUCTS

- Spiral Duct: Spiral Lock Seam, without insulation, G90 galvanized finish, ASTM A-653/G92
 - Basis of Design Manufacturers: Lindab SPIROsafe, alternates to the basis of design must be submitted for review.
 - Fittings: Factory produced standing seam construction with internal sealing. Fittings with a major axis of 36" or smaller shall be 20 gauge. Fittings with a major axis of 37"-48" shall be 18 gauge.
- Galvanized Steel Sheet: Forming steel, ASTM A 653/653M, G90 coating designation.
- Duct Liner: ASTM C 1071, Type II, with an airstream surface coated with a temperature resistant coating.
 - Adhesive: ASTM C 916, Type I.
 - Mechanical Fasteners: Galvanized steel pin, length as required to penetrate liner plus a 1/8 inch projection maximum into the airstream.
- Joint and Seam Tape: Comply with UL 181A.
- Joint and Seam Sealant: Comply with UL 181A.
- Rectangular Metal Duct Fabrication: Comply with SMACNA's "HVAC Duct Construction Standard" for metal thickness, reinforcing types and intervals, tie rod applications, and joint types and intervals.

2.2 ACCESSORIES

- Volume-Control Dampers: Factory fabricated volume control dampers, complete with required hardware and accessories. Single blade and multiple opposed blade, standard leakage rating, and suitable for horizontal or vertical applications.
- Fire Dampers: Factory-fabricated fire dampers, complete with required hardware and accessories. UL labeled according to UL 555, "Fire Dampers".
- Flexible Connectors: Flame retardant or noncombustible fabrics, coatings, and adhesives complying with UL 181, Class 1.
- Flexible Ducts: Factory fabricated, insulated, round duct, with an outer jacket enclosing 2 inch thick, glass fiber insulation, R-value: 6.0, around a continuous inner liner.

PART 3 - EXECUTION

3.1 INSTALLATION

- Duct System Pressure Class: Construct and install each duct system with 2 inch positive and negative duct pressure classifications.
- Conceal ducts from view in finished and occupied spaces. Except where noted as exposed.
- Avoid passing through electrical equipment spaces and enclosures.
- Support and connect metal ducts according to SMACNA's "HVAC Duct Construction Standard".
- Install duct accessories according to applicable portions of details of construction as shown in SMACNA standards.
- Install liner and/or insulation on ductwork per the material schedule on sheet M010.
- Install volume control dampers in lined duct with methods to avoid damage to liner and to avoid erosion of duct liner.
- Install fire and smoke dampers according to manufacturer's UL approved written instructions.
- Install fusible links in fire dampers.
- Provide saddle taps at tees for exposed ductwork.

3.2 TESTING, ADJUSTING, AND BALANCING

- The Tenant will supply an independent balance agent to to balance and adjust the HVAC installation. The balance agent will be responsible for any pulley or belt changes required.
- The GC is to have trained staffed available during the balancing to correct issues noted by the balance agent.
- The balance agent is to balance airflow within distribution systems, including submains, branches, and terminals to indicated quantities +/-10%. The hood exhaust system shall be balanced to a tolerance of -0+10% and the make-up air system to a tolerance of -10+0%.
- The balance agent is to supply a copy of the balance report to the Tenant, engineer and general contractor for review.

END OF SECTION 15810

SECTION 15855 - DIFFUSERS, REGISTERS, AND GRILLES

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- Submittals: None.

PART 2 - PRODUCTS

2.1 OUTLETS AND INLETS

- All air terminal devices:
 - Refer to Grills, Registers, and Diffusers Schedule for equipment schedule
 - Manufacturer: As scheduled (NO SUBSTITUTIONS)
 - Material: As scheduled.
 - Finish: As scheduled.
 - Mounting: As scheduled.

PART 3 - EXECUTION

3.1 INSTALLATION

- Coordinate location and installation with duct installation and installation of other ceiling and wall mounted items.
- Locate ceiling diffusers, registers, and grilles, as indicated on the architectural "reflected ceiling plans." Unless otherwise indicated, locate units in center of acoustical ceiling panels.

END OF SECTION 15855

HVAC GENERAL NOTES

- GENERAL NOTES APPLY TO HVAC SHEETS.
- WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE AUTHORITY HAVING JURISDICTION, INCLUDING APPLICABLE SECTIONS OF NFPA, THE MECHANICAL CODE, AND ANY INTERIM AMENDMENTS AT THE TIME OF THE PROPOSAL. PURCHASE PERMITS ASSOCIATED WITH THE WORK. OBTAIN INSPECTIONS REQUIRED BY CODE. SEE ARCHITECTURAL SHEETS FOR THE PREVAILING CODES.
- CONTRACTOR AND SUBCONTRACTORS SHALL REVIEW A COMPLETE SET OF THE CONSTRUCTION DOCUMENTS.
- COORDINATE WORK WITH THE WORK OF OTHER TRADES, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND OF THE EXISTING CONDITIONS AT THE PROJECT SITE.
- DRAWINGS FOR THE MECHANICAL WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWING SHALL NOT BE SCALED FOR EXACT MEASUREMENTS, REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, OFFSETS, ACCESSORIES, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.
- DUCT DIMENSIONS ON PLANS INDICATE DIMENSIONS OF INTERNAL FREE AREA.
- PERFORATED CEILING DIFFUSERS SHALL BE 4-WAY UNLESS NOTED OTHERWISE.
- COORDINATE ROOF WORK WITH THE OWNER'S CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.
- UNLESS NOTED OTHERWISE RECTANGULAR DUCT ELBOWS GREATER THAN 45° SHALL BE MITERED ELBOWS WITH DOUBLE-THICKNESS TURNING VANES AND RECTANGULAR DUCT ELBOWS 45° OR LESS SHALL BE RADIUSSED ELBOWS WITH AN INSIDE RADIUS OF AT LEAST 1/2 THE WIDTH OF THE DUCT.
- REPLACE AIR FILTERS WITH NEW, CLEAN MERV 8 AIR FILTERS AT TURNOVER.
- THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
- INSTALL LABELING CALLED FOR IN THE MECHANICAL DRAWINGS USING ENGRAVED PHENOLIC PLATES (WITH BLACK LETTERING).
- PROVIDE P3000 12 GA. UNISTRUT WITH PG FINISH FOR DUCT SUPPORTS AND OTHER UNISTRUT IN AREAS EXPOSED TO VIEW. SLOTTED UNISTRUT AND OTHER UNISTRUT WITH HOLES IS NOT ACCEPTABLE.

HVAC MATERIAL SCHEDULE

	APPLICATION	ALLOWABLE MATERIAL
DUCT		
	CONCEALED, GENERAL EXHAUST	RECT. OR ROUND AS SHOWN
	CONCEALED, RETURN	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED, SUPPLY	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED, TYPE I HOOD EXHAUST	RECTANGULAR 16 GA. BLACK IRON W/ WRAP OR UL 1978 FACTORY-MANUFACTURED DUCT W/ WRAP (SUBMIT SHOP DRAWINGS FOR FACTORY-MANUFACTURED DUCT PRIOR TO ORDERING FOR APPROVAL)
	EXPOSED GENERAL EXHAUST	RECTANGULAR, NO EXPOSED DUCT-SEALING MASTIC
	EXPOSED RETURN	RECTANGULAR, NO EXPOSED DUCT-SEALING MASTIC
	EXPOSED SUPPLY	RECT. LINED OR ROUND AS SHOWN, NO EXPOSED DUCT-SEALING MASTIC

HVAC ABBREVIATIONS

(E)	EXISTING
ABV	ABOVE
ADA	AMERICANS WITH DISABILITIES ACT
AFB	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BOH	BACK OF HOUSE
CLG	CEILING
CTE	CONNECT TO EXISTING
DN	DOWN
EXT'G	EXISTING
FLR	FLOOR
FOH	FRONT OF HOUSE
GYP	GYPSUM BOARD
NTS	NOT TO SCALE
O/H	OVERHEAD
OBD	OPPOSED BLADE DAMPER
TYP	TYPICAL
U/G	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
VFD	VARIABLE FREQUENCY DRIVE
VSC	VARIABLE SPEED CONTROLLER
W/	WITH
WIC	WALK-IN COOLER

CO2AS	TENANT'S CO2 ALARM SUPPLIER
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
HS	TENANT'S HOOD SUPPLIER
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
LL	LANDLORD
MSS	TENANT'S MUSIC SYSTEMS SUPPLIER
SPS	TENANT'S SODA POP SUPPLIER
TAB	TENANT'S TEST AND BALANCE VENDOR
TCC	TENANT'S CABLING CONTRACTOR
TDC	TENANT'S DUCT CLEANER
TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
TLS	TENANT'S LIGHT/LAMP SUPPLIER
TMB	TENANT'S MENU BOARD SUPPLIER
TMS	TENANT'S MILLWORK SUPPLIER
TP	TENANT'S PHONE SUPPLIER
TPS	TENANT'S PANELBOARD SUPPLIER
TRS	TENANT'S RAILING SUPPLIER
TSV	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SNAITIZER SUPPLIER
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WHS	TENANT'S WATER HEATER SUPPLIER

HVAC SYMBOLS

	CEILING DIFFUSER
	CEILING-MOUNTED RETURN OR EXHAUST REGISTER
	SUPPLY REGISTER
	RETURN GRILLE
	FLEXIBLE DUCT
	MITERED CORNER WITH TURNING VANES
	DUCTWORK INTERNAL FREE DIMENSIONS (WIDTH/HEIGHT)
	RECTANGULAR TO ROUND DUCT TRANSITION
	DUCT-MOUNTED SMOKE DETECTOR
	MOTOR-OPERATED DAMPER
	MANUAL VOLUME DAMPER
	GREASE DUCT CLEANOUT
	MITERED CORNER WITHOUT TURNING VANES
	GRIDPOINT THERMOSTAT
	GRIDPOINT ZONE SENSOR MODULE
	GRIDPOINT SUPPLY PROBE
	PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
	CONNECT TO EXISTING
	EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET M600 FOR EQUIPMENT INFORMATION
	AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET
	GRILL, REGISTER, OR DIFFUSER TAG: TAG NECK SIZE AIRFLOW [CFM]

CHD	DATE	REVISION
5		
4		
3	04/09/25	CONSTRUCTION SET
2	03/20/25	UPDATED PERMIT SET
1	11/05/24	BULLETIN 1
0	10/17/24	PERMIT SET

PROJ.: 230435
DATE: 08/30/2024
DRAWN BY: J. BOWMAN
CHECKED BY: J. BOWMAN
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DOS ID: 2840131
Phone: 973-359-9400
www.bowmanconsulting.com
E-mail: N.J.@BowmanConsulting.com

Bowman Consulting Engineering, Land Surveying & Landscape Architecture
54 Horseshall Road, Suite 100
Brooklyn, NY 11225
www.bowmanconsulting.com

Walter Shoup, N.Y. Professional Engineer, Lic. 110146

CHIPOTLE MEXICAN GRILL, INC.
1730 BEDFORD AVE.
BROOKLYN, NY 11225

SHEET 1 OF 4
SHEET TITLE:

M-010.00

HVAC SPECIFICATIONS

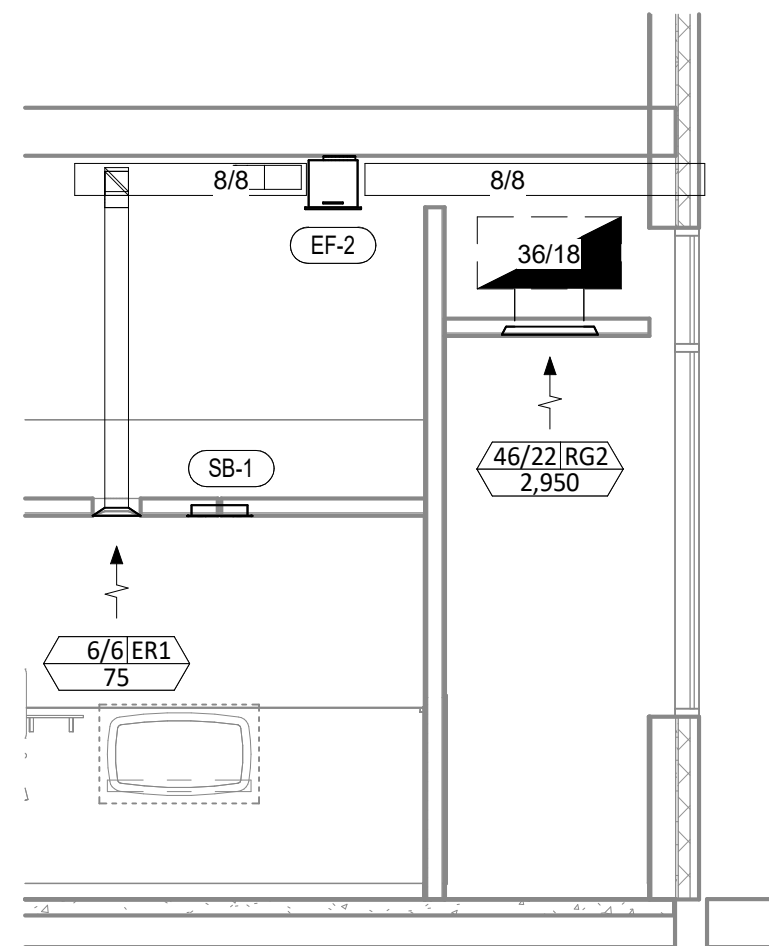
DOB NOW Job# B01156614-51

HVAC PLAN NOTES

- SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING MOUNTED EQUIPMENT LOCATION. TYPICAL.
- PAINT DUCTWORK VISIBLE THROUGH DINING ROOM SUPPLY REGISTERS BLACK. TYPICAL.
- NOT USED.
- INSTALL HP-2A-1 AND HP-2B-1 HANGING PER STRUCTURAL DRAWINGS. PROVIDE MIXING BOX WITH 18/18 RA AND OA CONNECTIONS. ENSURE ALL MANUFACTURER SERVICE CLEARANCE REQUIREMENTS ARE SATISFIED. ROUTE REFRIGERANT LINESET (SIZED BY MANUFACTURER) TO ASSOCIATED HEAT PUMP OUTDOOR UNIT ON ROOF. SEE SCHEDULE AND DETAIL FOR MORE INFORMATION.
- INSTALL HP-1A AND HP-1B-1 HANGING PER STRUCTURAL DRAWINGS. ENSURE ALL MANUFACTURER SERVICE CLEARANCE REQUIREMENTS ARE SATISFIED. ROUTE REFRIGERANT LINESET (SIZED BY MANUFACTURER) TO ASSOCIATED HEAT PUMP OUTDOOR UNIT ON ROOF. SEE SCHEDULE AND DETAIL FOR MORE INFORMATION.
- 10/18 EXHAUST DUCT UP THROUGH ROOF. SEE ROOF PLAN FOR ROOF DUCTING TO EF-1.
- SLOPE GREASE EXHAUST DUCT A MINIMUM OF 1/4" PER FOOT.
- INSTALL LOUVER'S L-2 IN WINDOW BAY PER ARCHITECTURAL DRAWINGS. SEE SCHEDULE FOR MORE INFORMATION.
- INSTALL LOUVERS L-1 IN WINDOW BAY PER ARCHITECTURAL DRAWINGS. PROVIDE MOTORIZED DAMPER, SEE SCHEDULE FOR MORE INFORMATION.
- NOT USED.
- NOT USED.
- NOT USED.
- INSTALL SINGLE-GANG VERTICAL J-BOX FOR GRIDPOINT THERMOSTATS FURNISHED BY TEMS FOR RTU-1 AND RTU-2 AT THIS LOCATION AT 48" AFF. COORDINATE WITH ELECTRICAL SWITCHING IN THIS AREA. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
- INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR HP-1 AT THIS LOCATION 72" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
- INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR HP-2 AT THIS LOCATION 66" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
- INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR HP-1 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
- INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR HP-2 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
- INSTALL REMOTE TEMPERATURE SENSOR FOR HOOD HD-1 AT THIS LOCATION 72" AFF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE (2) #18 G. THERMISTOR CABLE FROM TEMPERATURE SENSOR TO HOOD CONTROL PANEL.
- INSTALL KITCHEN HOOD, HD-1. SUPPORT HOOD PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL HOOD ACCORDING TO THE REQUIREMENTS OF ITS LISTING, IN COMPLIANCE WITH NFPA 96, THE BUILDING CODE, AND AUTHORITIES HAVING JURISDICTION. HOOD SHALL HAVE AN INTEGRAL DUCT COLLAR TEMPERATURE SENSOR TO AUTOMATICALLY ENERGIZE THE EXHAUST AND HEAT PUMP INDOOR UNIT FANS IF COOKING TEMPERATURES ARE DETECTED. EXHAUST DUCT SYSTEM TO BE WELDED OR FACTORY-MANUFACTURED WATER AND AIR TIGHT. INSTALL CLEANOUTS PER CODE AND AS SHOWN. INSTALL HOOD PER DETAILS 2, 4, AND 9/M700. CHIPOTLE WILL PROVIDE AN INDEPENDENT TESTING AGENCY FOR TESTING THE INTEGRITY OF THE GREASE DUCT SYSTEM.

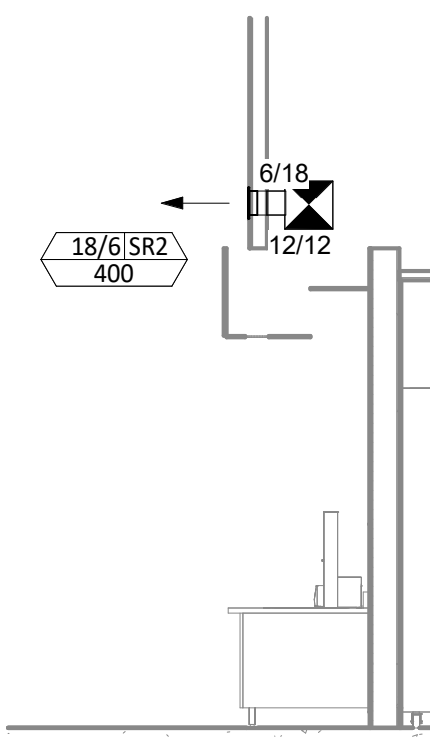
HVAC PLAN NOTES

- INSTALL REMOTE CONDENSING UNIT FOR WALK-IN COOLER HANGING FROM STRUCTURE AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS, AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. CUT 2-1/2" HOLE IN WALK-IN COOLER ROOF FOR REFRIGERANT LINE SET AND SEAL PER THE COOLER MANUFACTURER'S INSTALLATION INSTRUCTIONS AFTER LINE SET IS INSTALLED.
- INSTALL REMOTE CONDENSER FOR ICE MACHINE HANGING FROM STRUCTURE AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS, AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. SEAL PIPING PENETRATIONS THROUGH ROOF. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. IF REFRIGERANT PIPING TO ICE MAKER IS EXPOSED TO PUBLIC VIEW CONCEAL WITHIN A STAINLESS STEEL SHROUD AS SHOWN IN THE ARCHITECTURAL DRAWINGS.
- INSTALL ROOFTOP EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- INSTALL EXHAUST FAN EF-1 PER DETAIL 5/M700 AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- PROVIDE SUPPLY DIFFUSER CONNECTION TO SUPPLY SYSTEM PER DETAIL 1/M700. TYPICAL.
- PROVIDE AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET. WIRE A UNIT BACK TO EACH SMOKE DETECTOR. MOUNT UNIT 60" AFF. TYPICAL.
- INSTALL REME HALO AIR PURIFIER FURNISHED BY TUV IN RTU PER DETAIL 6/M700. SEE ELECTRICAL DRAWINGS FOR POWER CONNECTION INFORMATION. INSTALL UV WARNING STICKERS ON FACE OF ENCLOSURE PER DETAIL AND ON ANY RTU ACCESS DOOR(S) THROUGH WHICH THE REME HALO WOULD BE VISIBLE IF OPENED.
- ADJUST SUPPLY REGISTERS SO THAT SUPPLY AIR HITS WALL ON OPPOSITE SIDE OF ROOM AT APPROXIMATELY 7' AFF WITH NO DRAFTS FELT IN THE DINING ROOM.
- INSTALL HEAT PUMP OUTDOOR UNIT ON SNOW LEGS PER DETAIL 10/M700. SEE SCHEDULE FOR MORE INFORMATION.
- 8" EXHAUST AIR WALL CAP, MOUNT AT 10'-0" A.F.F. ON CENTER.
- 10X18 GREASE EXHAUST DUCT DOWN IN CHASE.
- TRANSFER GRILL OPEN TO AREA ABOVE CEILING.
- PROVIDE GREASE DUCT CLEANOUT.
- ENSURE 6' FIRE DEPARTMENT WALKING CLEARANCE IS MET FOR UNIT INSTALLATION. SEE ARCHITECTURAL SHEETS FOR MORE INFORMATION.
- INSTALL DUCT HEATER IN OUTSIDE AIR DUCT PER MANUFACTURERS INSTALLATION DETAILS.
- PROVIDE ACCESS PANEL IN WALL FOR DUCT HEATER SERVICE.



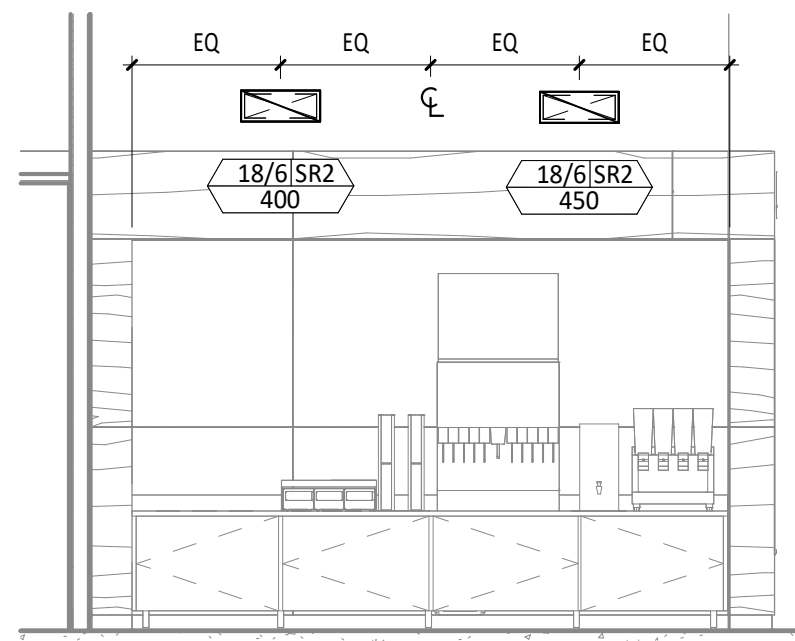
HVAC DINING ROOM RETURN SECTION

1/4" = 1'-0"



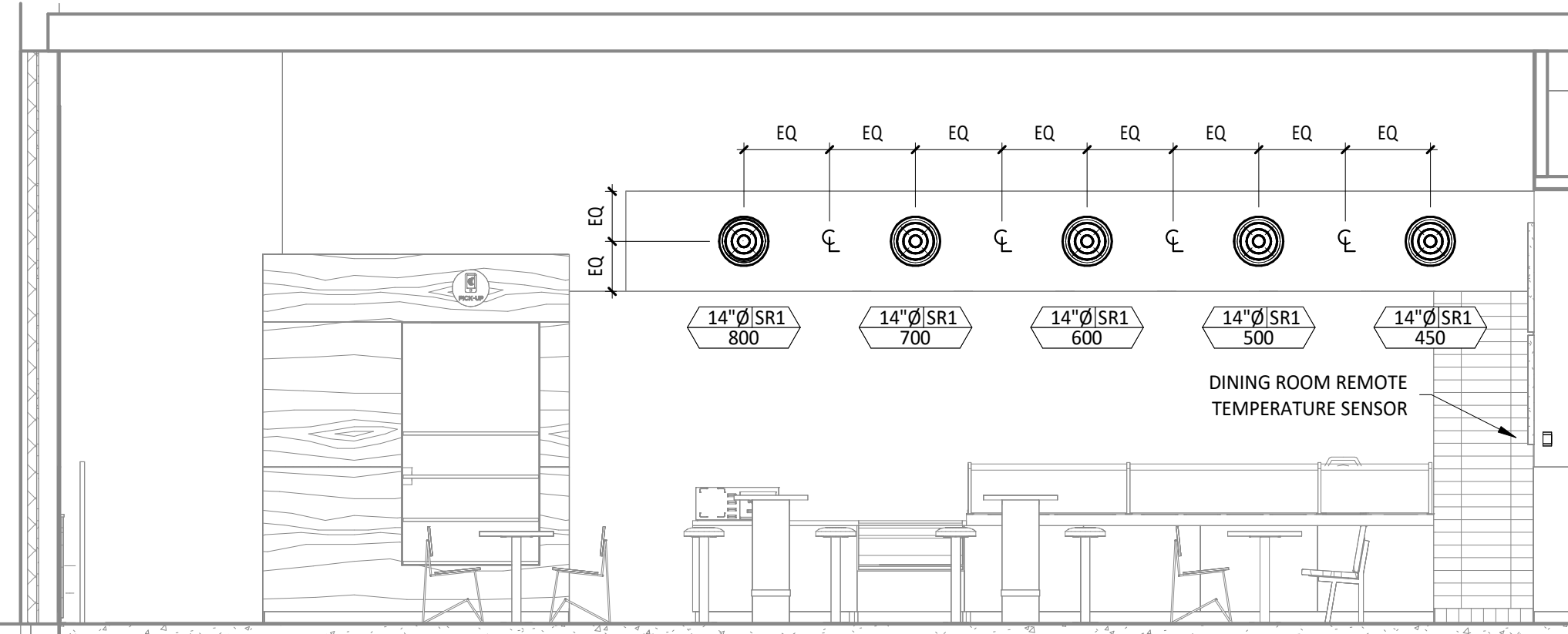
HVAC DINING ROOM SECTION

1/4" = 1'-0"



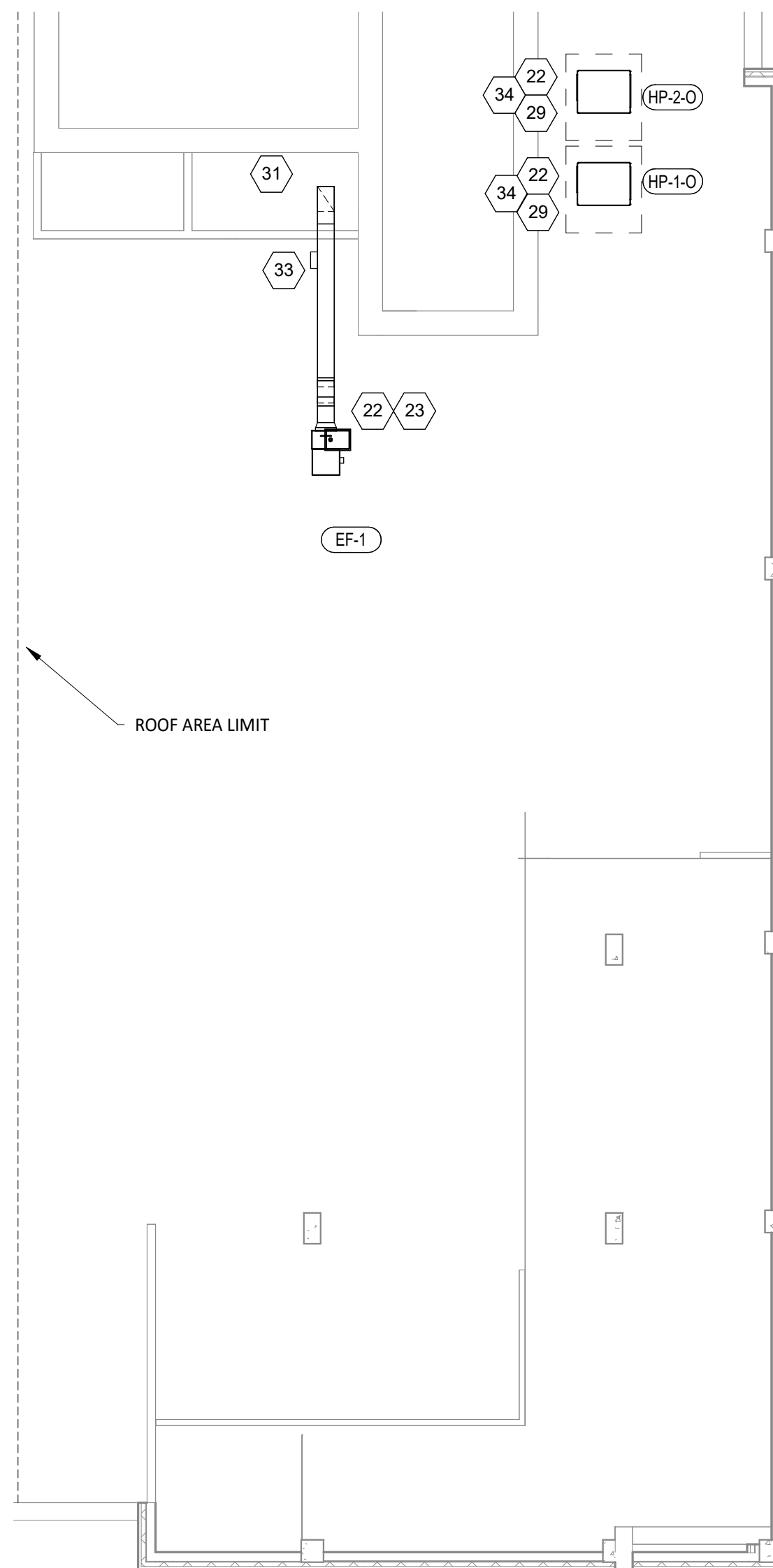
HVAC DINING ROOM SECTION

1/4" = 1'-0"



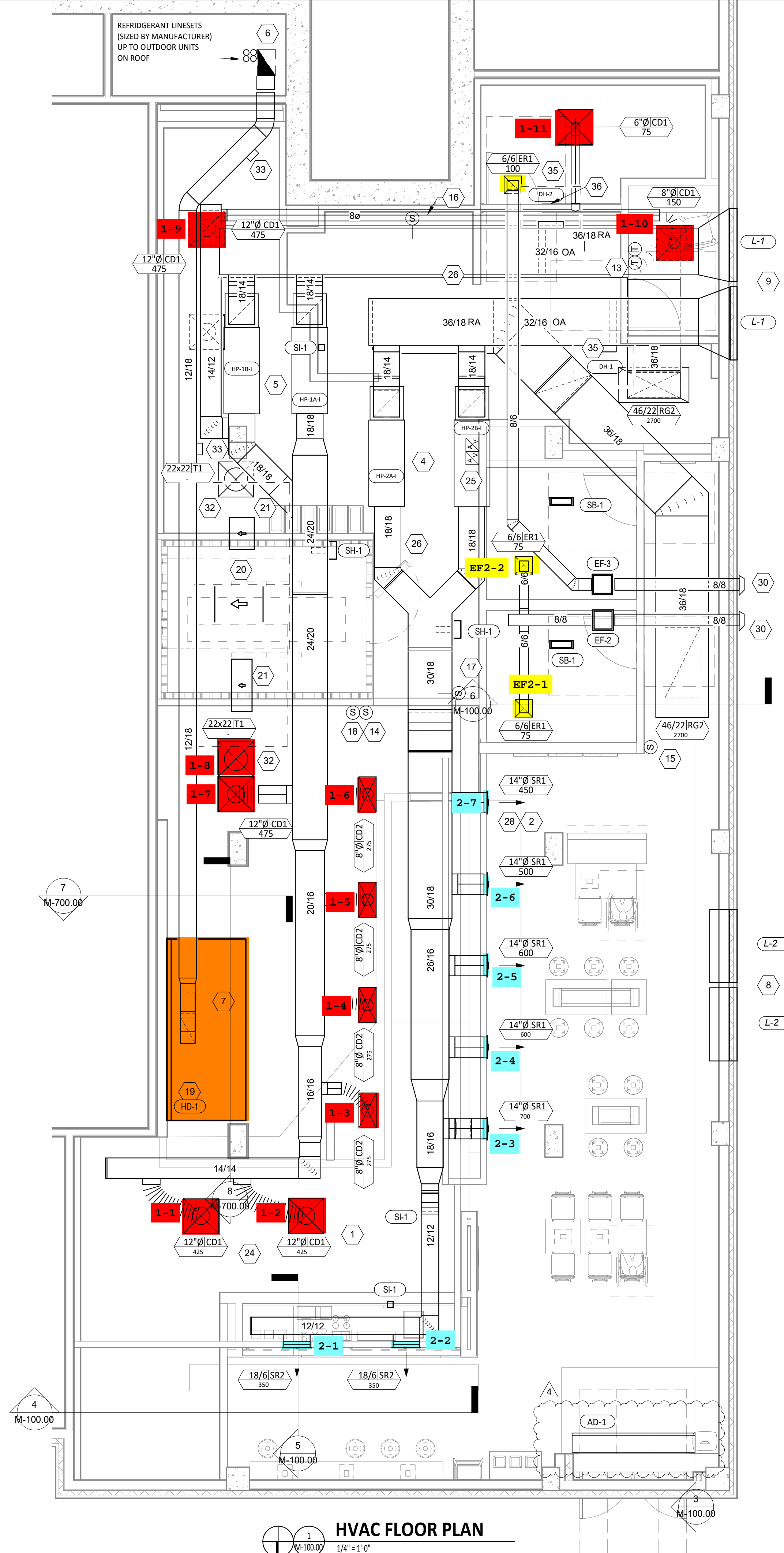
HVAC DINING ROOM SECTION

1/4" = 1'-0"



HVAC ROOF PLAN

1/8" = 1'-0"



HVAC FLOOR PLAN

1/4" = 1'-0"

NO.	DATE	DESCRIPTION
1	04/16/25	CONSTRUCTION SET
2	04/09/25	UPDATED PERMIT SET
3	03/20/25	BULLETIN 1
4	11/05/24	PERMIT SET
5	10/17/24	

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 DATE: 09/30/2024
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DOS ID: 2840131
 Phone: 878-358-8400
 www.bowmanconsulting.com
 E-mail: NJ@BowmanConsulting.com
 Bowman Consulting Engineering, Land Surveying & Landscape Architecture
 54 Horseshoe Road, Suite 100
 Newark, NJ 07102
 www.bowmanconsulting.com

CHIPOTLE MEXICAN GRILL, INC.
 1730 BEDFORD AVE.
 BROOKLYN, NY 11225

SHEET 2 OF 4
 SHEET TITLE:
M-100.00
 HVAC PLAN - 1ST FLOOR LOWER LEVEL
 DOB NOW Job# B01156614-51

AIR DOOR SCHEDULE											
TAG	MANUFACTURER	MODEL	AIRFLOW			ELECTRICAL					
			MAX SPEED	AVERAGE SPEED	CFM	POWER	VOLTS/PHASE/HZ	MCA	MOCP	FURNISHED BY	INSTALLED BY
AD-1	BERNER	A108107ZE	2149	1582	1780	11.2 KW	208/3/60	32.8	45	GC	GC

AIR BALANCE SCHEDULE				
TAG	SUPPLY	RETURN	OUTSIDE AIR	EXHAUST AIR
HP-1A-I	1800	1250	550	-
HP-1B-I	1800	1250	550	-
HP-2A-I	1800	1250	550	-
HP-2B-I	1800	1250	550	-
EF-1	-	-	-	1900
EF-2	-	-	-	150
EF-3	-	-	-	100
TOTAL			2200	2150
NET PRESSURIZATION=			+50	

CONTROL FUNCTIONS

A. THE MAIN COOKING EXHAUST FAN AND HEAT PUMP UNIT SHALL BE INTERLOCKED TO OPERATE TOGETHER. THIS CONTROL CIRCUIT IS ACTIVATED BY A SWITCH AND INCLUDES A FIRE PROTECTION OVERRIDE.

B. THE TEMPERATURE IN EACH ZONE IS CONTROLLED BY SPACE TEMPERATURE SENSORS CONNECTED TO THE THERMOSTATS LOCATED IN THE OFFICE. ALL ZONES SHALL OPERATE WITH CONTINUOUS FAN OPERATION DURING OCCUPIED TIMES AND INTERMITTENTLY AS NEEDED TO MAINTAIN SET POINTS DURING UNOCCUPIED TIMES. OUTSIDE AIR DAMPERS SHALL BE OPEN CONTINUOUSLY WHEN EITHER IN OCCUPIED MODE OR WHEN THE HOOD SYSTEM IS ON AND SHALL BE CLOSED DURING UNOCCUPIED PERIODS.

C. THE THERMOSTATS SHALL DETERMINE OCCUPIED/UNOCCUPIED STATUS BASED ON THE SCHEDULE IN THE ENERGY MANAGEMENT SYSTEM.

LOUVER SCHEDULE										
TAG	MANUFACTURER	MODEL	MATERIAL	COLOR	SIZE (INCHES) WIDTH/HEIGHT	FREE AREA (SQ. FT.)	FLOW (CFM)	PRESS. DROP (IN. WC)	SERVES	NOTES
L-1	GREENHECK	SED-501	ALUMINIUM	BY ARCH	50x27	4.8	3600	0.24	HP-1/2 OA	1-5
L-2	GREENHECK	SED-501	ALUMINIUM	BY ARCH	50x27	4.8	3600	0.24	HP-1/2 RELIEF	1-4, 6

NOTES:

- COLOR AS SPECIFIED BY ARCHITECT.
- WITH BIRD SCREEN.
- WITH FACE FLANGE.
- FREE AREA LISTED IS MINIMUM REQUIRED.
- WITH MOTORIZED DAMPER.
- WITH RELIEF DAMPER SET TO OPEN AT +0.1" W.C. (ADJUSTABLE).

EQUALS BY: ENGINEER APPROVED EQUAL.

CONDENSING UNIT SCHEDULE															
TAG	DESCRIPTION	NOMINAL CAPACITY	NUMBER OF		REFRIGERANT		ELECTRICAL			FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS	
			COMPRESSORS	CIRCUITS	TYPE	CHARGE	WEIGHT	MOCAP	FLA			V/P/H	MANUFACTURER		MODEL
CU-1	CONDENSING UNIT - WALK-IN COOLER		1	1	R-404A	10.4 lb	250 lb	15 A	9 A	208/3/60	WCS	GC	HARFORD	KPCL99M20P-3E	FURNISHED WITH WALK-IN COOLER
CU-2	REMOTE CONDENSER - LOW CAPACITY ICE MAKER		0	1	R-404A	11.46 lb	100 lb			120/1/60	KES	GC	HOSHIZAKI	URC-9FZ	FURNISHED WITH ICE MAKER
CU-3	REMOTE CONDENSER - SODA MACHINE ICE MAKER		0	1	R-404A	3.86 lb	100 lb			120/1/60	KES	GC	HOSHIZAKI	URC-5FZ	FURNISHED WITH ICE MAKER

HEAT PUMP SCHEDULE																			
TAG	MANUFACTURER	MODEL	SERVICE	OPERATING CONDITIONS			SUPPLY FAN DATA			ELECTRICAL DATA			COOLING		HEAT PUMP HEATING		OP. WT. (LBS)	NOTES	
				OAT DB (DEG F.)	OAT WB (DEG F.)	COIL EAT (DEG F.)	MOTOR POWER (HP)	E.S.P. (IN. W.C.)	AIRFLOW (CFM)	VOLTS/PH	MOP	MCA	IEER	EER	NET CAPACITY (MBH)	SENS CAPACITY (MBH)			AT 17 DEG F. COP
HP-1-O	YORK	YVAHP144B32S	BOH	92	74	-	-	-	208/3	70	58	21.2	11.2	138	114	2.15	110	723	A-F
HP-1A-I	YORK	TIAH060B22M	BOH	92	74	83.2	0.75	0.8	1800	208/1	30	29	-	65	53.8	-	56	168	G,H,I
HP-1B-I	YORK	TIAH060B22M	BOH	92	74	83.2	0.75	0.8	1800	208/1	30	29	-	65	53.8	-	56	168	G,H,I
HP-2-O	YORK	YVAHP144B32S	FOH	92	74	-	-	-	208/3	70	58	21.2	11.2	138	114	2.15	110	723	A-F
HP-2A-I	YORK	TIAH060B22M	FOH	92	74	83.2	0.75	0.8	1800	208/1	30	29	-	65	53.8	-	56	168	G,H,I
HP-2B-I	YORK	TIAH060B22M	FOH	92	74	83.2	0.75	0.8	1800	208/1	30	29	-	65	53.8	-	56	168	G,H,I

NOTES:

- REFRIGERANT LINE SET, SIZED BY MANUFACTURER.
- ANTI-SHORT CYCLE TIMER.
- COMPRESSOR HARD START KIT.
- SNOW LEGS WITH EXTENSIONS, 10" TOTAL LENGTH.
- CRANKCASE HEATER KIT.
- LEVEL 4" CONCRETE PAD BY M.C.
- WITH CONDENSATE HIGH WATER LEVEL SENSOR AND SHUT-DOWN CONTROLS.
- WITH MICROMETL MB-GP20CB-DCDS MIXING BOX AND ECONOMIZER CONTROLS.
- WITH 5 KW ELECTRIC BACKUP HEATER (SINGLE POWER CONNECTION FOR UNIT/HEATER).

SANITIZING EQUIPMENT SCHEDULE									
TAG	COUNT	DESCRIPTION	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS		
					MANUFACTURER	MODEL			
SB-1	2	BATHROOM AIR PURIFICATION UNIT	TUV	GC	RGF ENVIRONMENTAL GROUP	BRU ASSEMBLY	SEE ELECTRICAL SHEETS FOR CONNECTION INFORMATION.		
SH-1	2	HVAC AIR PURIFICATION UNIT	TUV	GC	RGF ENVIRONMENTAL GROUP	REME-HALO	SEE DETAIL 6/M700 FOR INSTALLATION INFORMATION.		
SI-1	2	ICE MACHINE TREATMENT SYSTEM	TUV	GC	RGF ENVIRONMENTAL GROUP	IMS-B-GA	SEE PLUMBING DRAWINGS FOR INSTALLATION INFORMATION.		

FAN SCHEDULE											
TAG	DESCRIPTION	AIRFLOW	E.S.P.	WEIGHT	ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
					MOTOR POWER	V/P/H			MANUFACTURER	MODEL	
EF-1	UPBLAST UTILITY SET EXHAUST FAN	1,900 CFM	2.20 in-wg	296 lb	2.13 hp	208/3/60	HS	GC	CAPTIVE-AIRE	USB120DD-RM	DIRECT DRIVE UPBLAST EXHAUST FAN FURNISHED WITH WEATHERPROOF DISCONNECT
EF-2	INLINE EXHAUST FAN	150 CFM	0.50 in-wg	11 lb	0.17 hp	115/1/60	HS	GC	CAPTIVE-AIRE	DFA 200CA	INLINE, STRAIGHT THROUGH DISCHARGE RESTROOM EXHAUST FAN WITH CEILING VIBRATION HANGERS AND INTEGRAL SPEED CONTROL.
EF-3	INLINE EXHAUST FAN	100 CFM	0.50 in-wg	8 lb 1900 CFM	0.15 hp	115/1/60	HS	GC	CAPTIVE-AIRE	DFA 100CA	INLINE, STRAIGHT THROUGH DISCHARGE RESTROOM EXHAUST FAN WITH CEILING VIBRATION HANGERS AND INTEGRAL SPEED CONTROL. INTERLOCK WITH HP-2-I OPERATION.

ELECTRIC DUCT HEATER SCHEDULE								
TAG	MANUFACTURER	MODEL	SERVICE	AIR FLOW (CFM)	TEMP. RISE (DEGREES F.)	ELECTRICAL DATA		NOTES
						WATTS OR AMPS	VOLTS/PH.	
DH-1	TUTCO	E-SERIES DH	OUTSIDE AIR	1100	23	8 kW	208V/3PH	WITH SCR CONTROL AND CONTROL TRANSFORMER, DISCONNECT SWITCH, AND ADJUSTABLE AIRFLOW SWITCH, CONTROLLED BY DUCT MOUNTED TEMPERATURE SENSOR (UPSTREAM OF DUCT HEATER) TO ENGAGE WHEN OUTSIDE AIR IS 35 DEGREES OR LESS.
DH-2	TUTCO	E-SERIES DH	OUTSIDE AIR	1100	23	8 kW	208V/3PH	WITH SCR CONTROL AND CONTROL TRANSFORMER, DISCONNECT SWITCH, AND ADJUSTABLE AIRFLOW SWITCH, CONTROLLED BY DUCT MOUNTED TEMPERATURE SENSOR (UPSTREAM OF DUCT HEATER) TO ENGAGE WHEN OUTSIDE AIR IS 35 DEGREES OR LESS.

AIR TERMINAL SCHEDULE												
TAG	DESCRIPTION	FACE SIZE	MATERIAL	FINISH	MOUNTING	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		NOTES		
								MANUFACTURER	MODEL			
CD1	PERFORATED CEILING DIFFUSER	24" X 24"	ALUMINIUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4320A TYPE L	PROVIDE WITH INTEGRAL OBD		
CD2	PERFORATED CEILING DIFFUSER	24" X 12"	ALUMINIUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4320A TYPE L	PROVIDE WITH INTEGRAL OBD, REMOVE 4-WAY DEFLECTORS		
ER1	PERFORATED CEILING EXHAUST	12" X 12"	ALUMINIUM	WHITE	SURFACE MOUNT	GC	GC	NAILOR	4330R TYPE S	PROVIDE INTEGRAL OBD		
RG2	PERFORATED CEILING RETURN	48" X 24"	ALUMINIUM	WHITE	SURFACE MOUNT	GC	GC	NAILOR	4330R TYPE S			
SR1	ADJUSTABLE TURBO NOZZLE	SEE NECK SIZE	ALUMINIUM	WHITE	WALL	GC	GC	AIR CONCEPTS	ANR-14	PROVIDE WITH CONCEALED MOUNTING AND FACE-ACCESSIBLE OBD		
SR2	DOUBLE DEFLECTION SUPPLY REGISTER	SEE NECK SIZE	ALUMINIUM	WHITE	WALL	GC	GC	NAILOR	51DH	PROVIDE WITH INTEGRAL OBD		
T1	PERFORATED CEILING TRANSFER GRILLE	24" X 24"	ALUMINIUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4320A TYPE L			

KITCHEN HOOD SCHEDULE														
TAG	DESCRIPTION	MANUFACTURER	MODEL	MAX COOKING TEMP	EXHAUST PLENUM				# OF LIGHT FIXTURES	WEIGHT	NOTES			
					AIRFLOW	E.S.P.	WIDTH	LENGTH				DUCT COLLARS WIDTH	DUCT COLLARS LENGTH	
HD-1	TYPE 1 CANOPY HOOD WITH PERFORATED MAU AND HVAC SUPPLY PLENUMS	CAPTIVEAIRE	5424 ND-2	600 DEG. F.	1,900 CFM	0.818" WC	4'-6"	10'-4"	1	10"	18"	6	1,070 LBS	1-11

NOTES:

- 18 GAUGE TYPE 430 STAINLESS STEEL CONSTRUCTION.
- FURNISHED WITH VAPORPROOF INCANDESCENT LIGHT FIXTURES.
- 16" TALL HE SS FILTERS.
- INTEGRAL UTILITY CABINET.
- ANSUL SYSTEM.
- DUCT COLLAR TEMPERATURE SENSOR.
- PREWIRE PACKAGE.
- SPARE FIRE SYSTEM DRY CONTACT.
- 4-POLE 20A CONTACTOR.
- DVC-1 KITCHEN FAN CONTROL CENTER TO ENGAGE ASSOCIATED MAKE-UP AIR UNIT AND EXHAUST FAN AND CONTROL LIGHTS.
- UL LISTED FIRE SUPPRESSION AND GREASE COLLECTION SYSTEM.

NO.	REVISION	DATE	CHKD
5			
4	REVISION 4	04/16/25	
3	CONSTRUCTION SET	04/09/25	
2	UPDATED PERMIT SET	03/20/25	
1	BULLETIN 1	11/05/24	
0	PERMIT SET	10/17/24	

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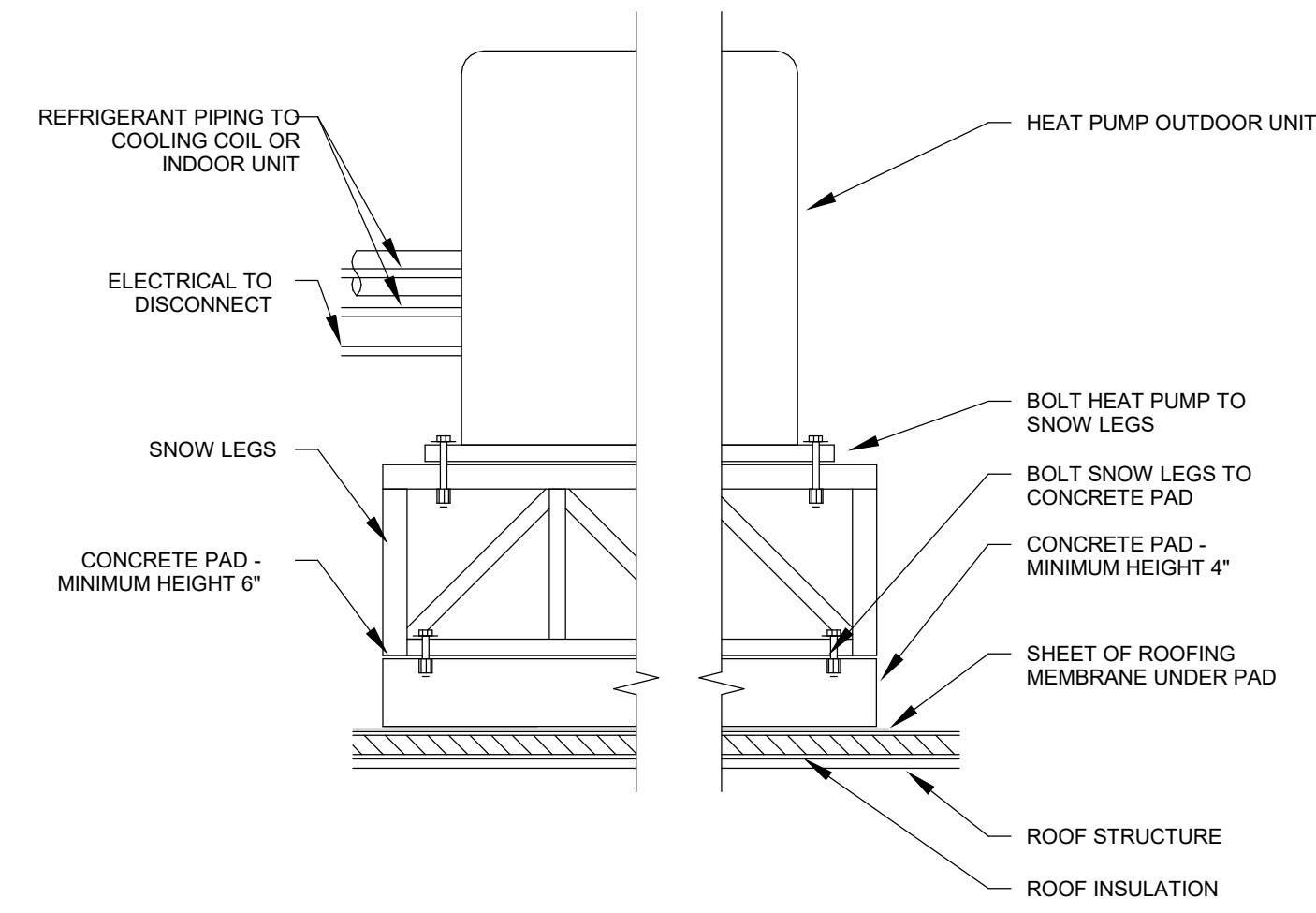
DOS ID: 2840131
Phone: 973-359-9400
www.bowmanconsulting.com
E-mail: N.Y.@BowmanConsulting.com

Bowman Consulting Engineering, Land Surveying & Landscape Architecture
54 Hazelwood Road, Suite 100
Brooklyn, NY 11225
www.bowmanconsulting.com

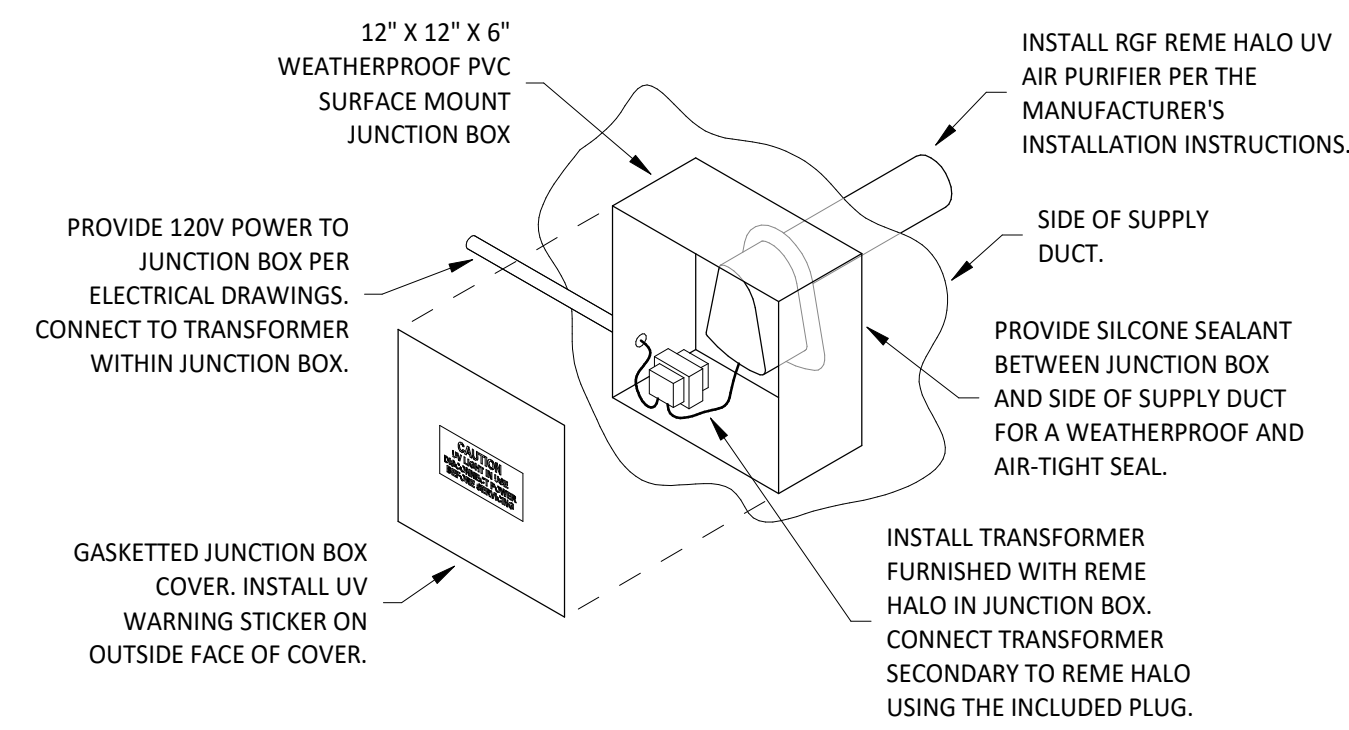
Walter Shoup, N.Y. Professional Engineer, Lic. 110146

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BROOKLYN, NY 11225

SHEET 3 OF 4
SHEET TITLE:
M-600.00
HVAC SCHEDULES
DOB NOW Job# B01156614-51



10
M-700.00
HEAT PUMP OUTDOOR UNIT DETAIL
NOT TO SCALE

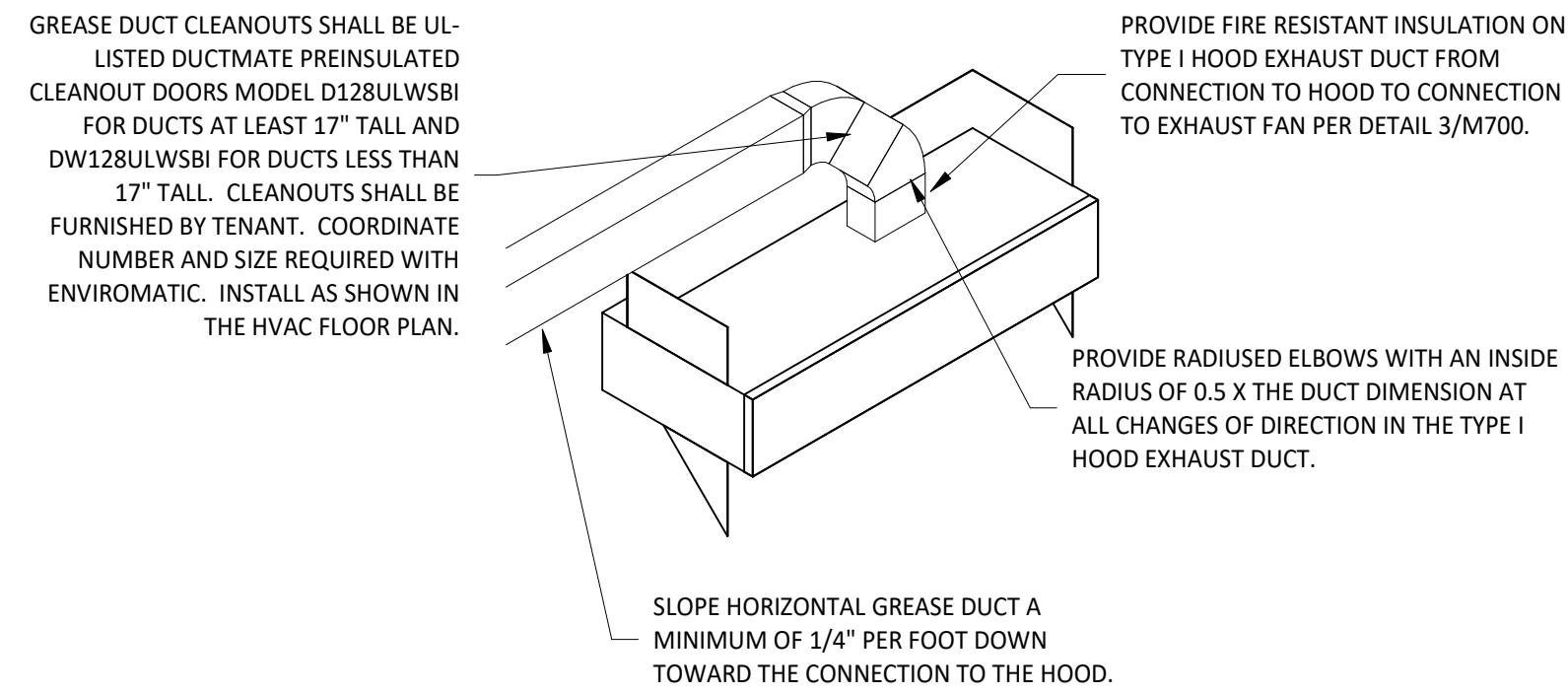


INSTALLATION LOCATION

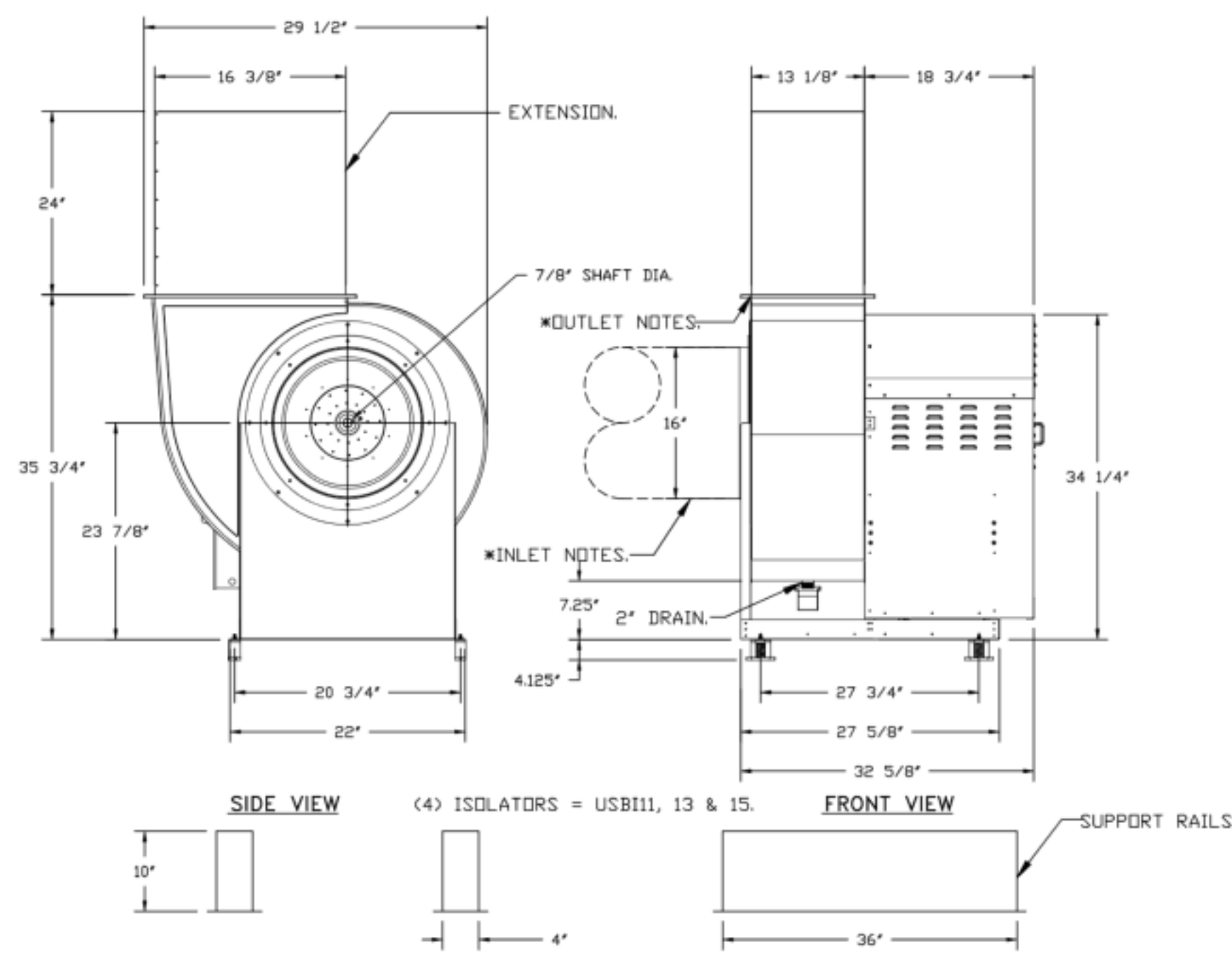
INSTALL AIR PURIFIER WITH JUNCTION BOX ON OUTSIDE FACE OF ROOFTOP UNIT AND WITH UV LAMP TUBE EXTENDING INTO THE INTERIOR OF THE ROOFTOP UNIT. FIELD VERIFY EXACT LOCATION TO AVOID DAMAGING, TOUCHING, OR INTERFERING WITH ANY RTU INTERIOR COMPONENTS. INSTALLATION LOCATION SHALL BE AS FOLLOWS:

- TRANE:** INSTALL INTO THE SUPPLY AIR STREAM THROUGH THE REMOVABLE PANEL COVERING THE HORIZONTAL DISCHARGE SUPPLY AIR OPENING.
- YORK:** INSTALL INTO THE SUPPLY AIR PLENUM FROM THE BACK SIDE OF THE UNIT JUST ABOVE THE HEAT EXCHANGER.

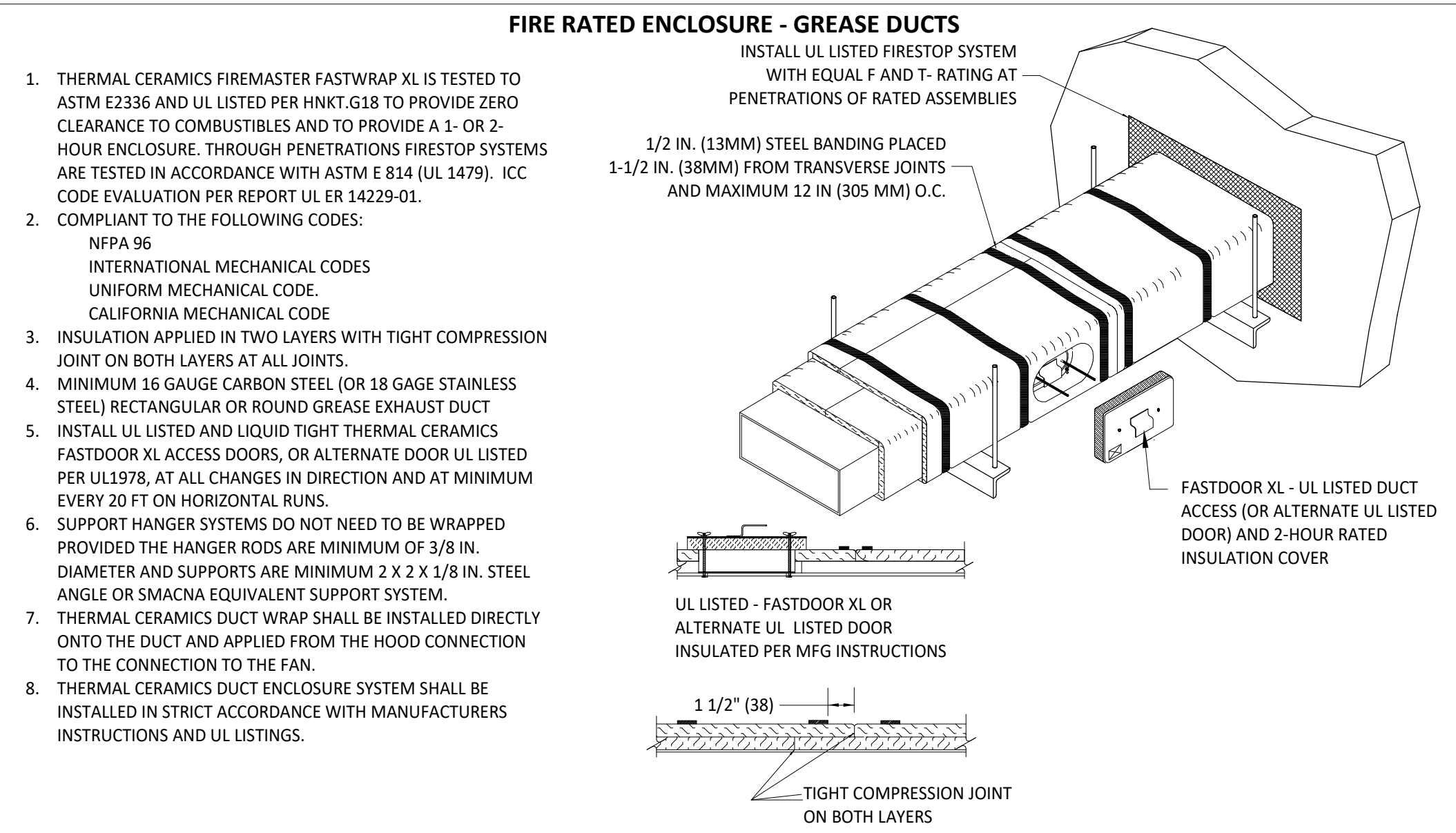
6
M-700.00
UV AIR PURIFIER INSTALLATION
NOT TO SCALE



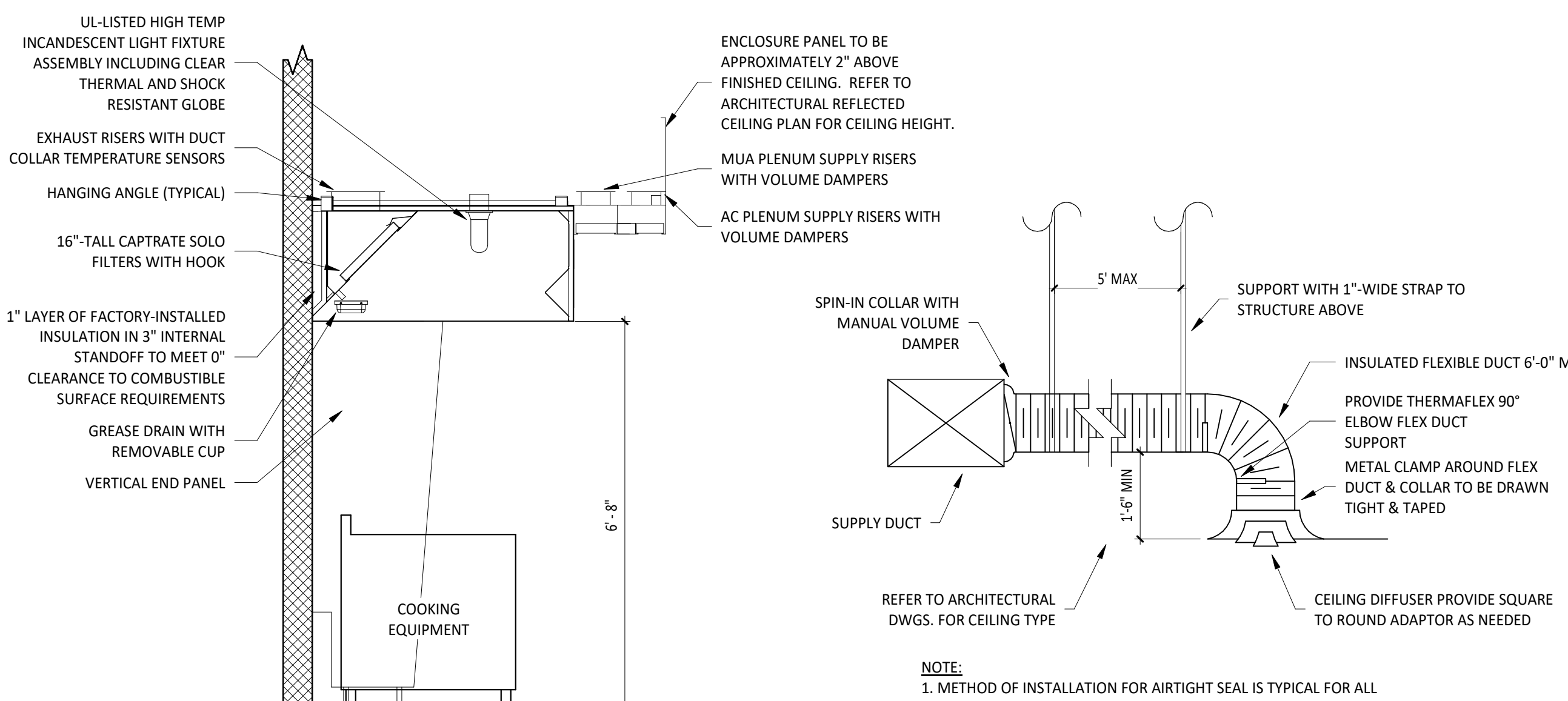
9
M-700.00
HOOD EXHAUST ISOMETRIC
NOT TO SCALE



5
M-700.00
GREASE EXHAUST FAN
NOT TO SCALE

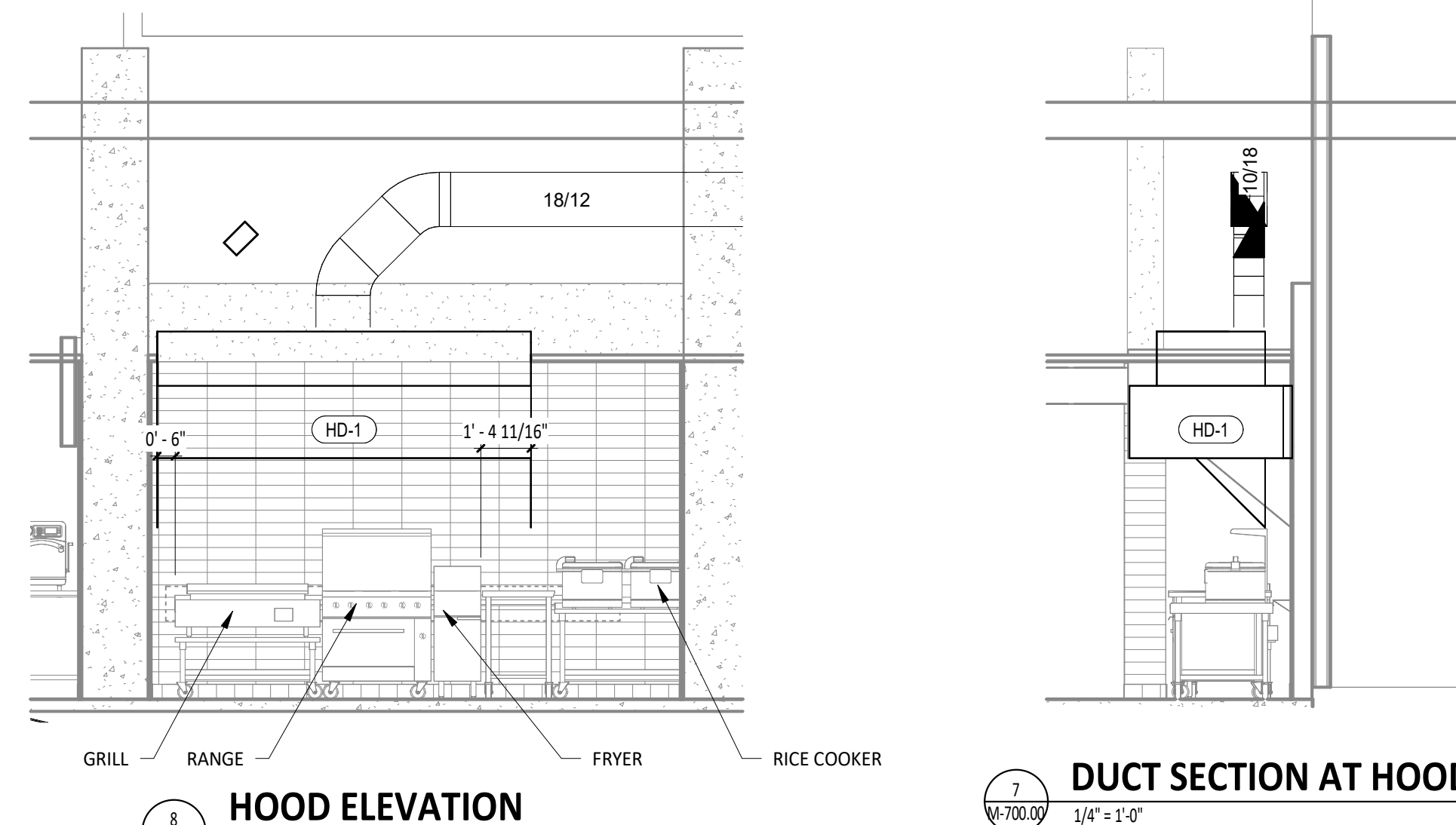
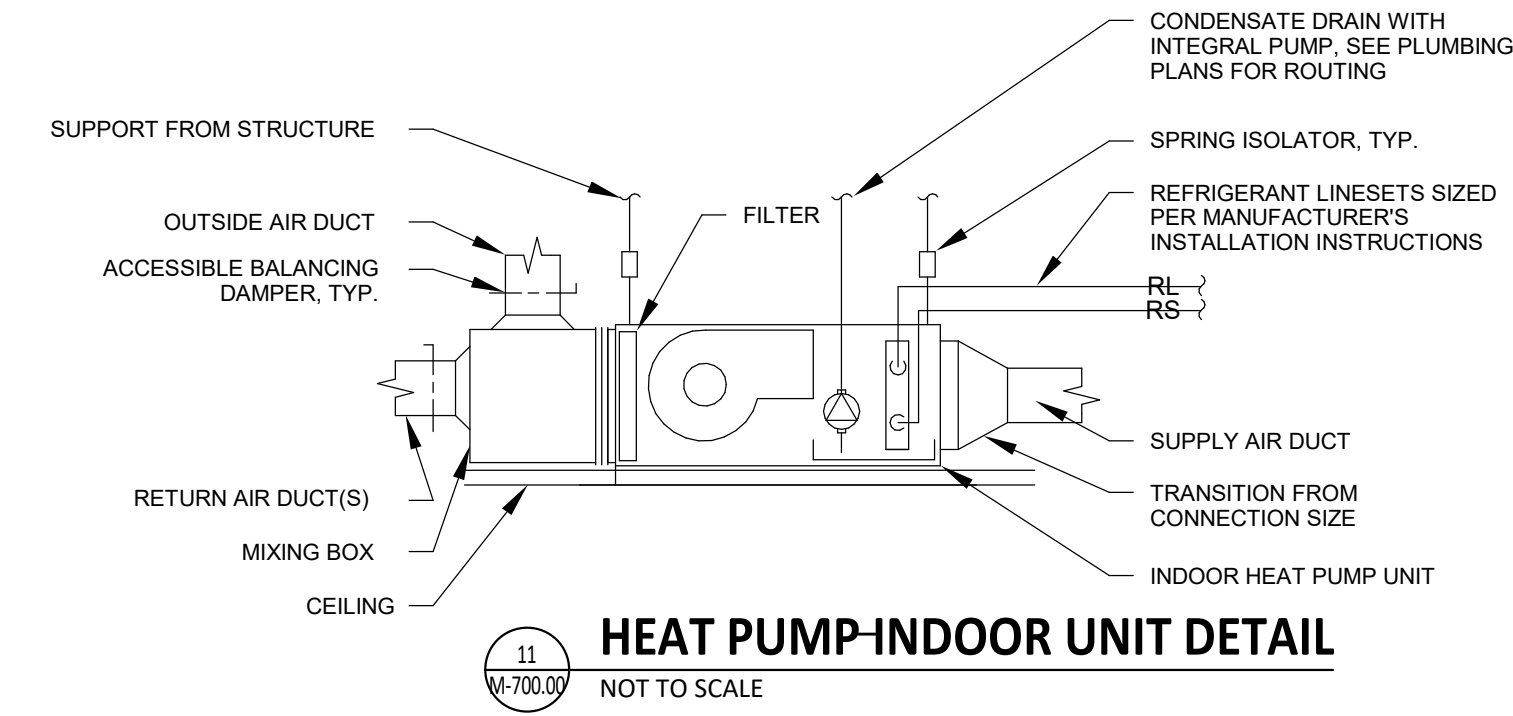


3
M-700.00
FIREMASTER DUCT WRAP - UL HNKT-G18
NOT TO SCALE

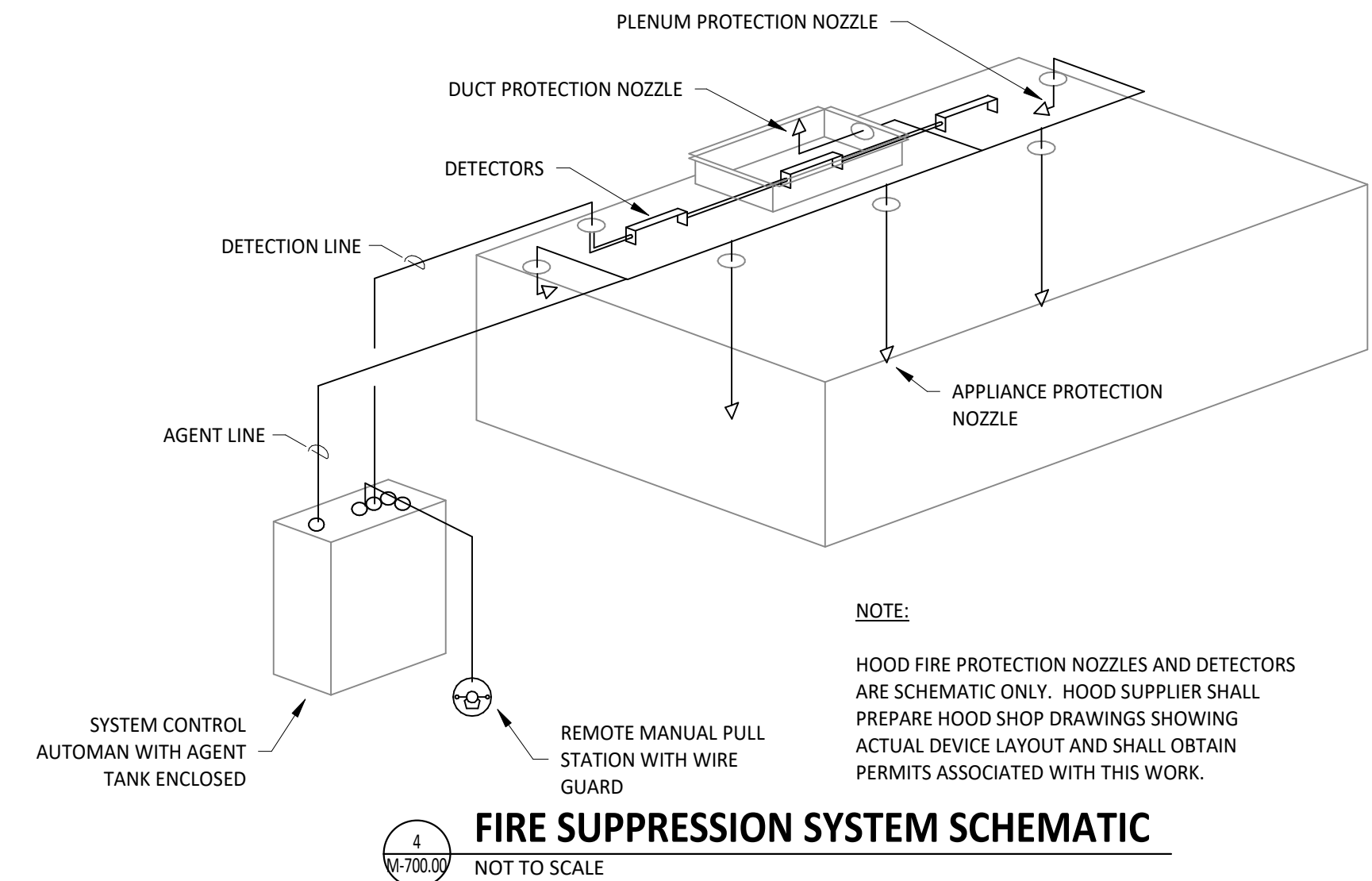


2
M-700.00
HOOD SECTION VIEW
NOT TO SCALE

1
M-700.00
DIFFUSER CONNECTION
NOT TO SCALE



8
M-700.00
HOOD ELEVATION
1/4" = 1'-0"



NO.	DATE	REVISION
5		
4	04/09/25	CONSTRUCTION SET
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2	11/05/24	BULLETIN 1
1	10/17/24	PERMIT SET
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LANDSCAPE ARCHITECT WHO SIGNED THIS DRAWING, TO ALTER THIS DRAWING IN ANY WAY.

Bowman Consulting Engineering, Land Surveying & Landscape Architecture
54 Henshall Road, Suite 100
Brooklyn, NY 11225
Phone: 973-559-9400
www.bowmanconsulting.com
E-mail: NJ@BowmanConsulting.com

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SHEET 4 OF 4
SHEET TITLE:
M-700.00
HVAC DETAILS
DOB NOW Job# B01156614-S1