

SUBMITTAL REVIEW

Date: 02/25/2025

Date Received: 02/18/2025

Company: IA Interior Architects

To: Melissa Stonikinis

Reviewed by: Fred Summers / Pat Quirk

Project Number and Name: BCG#230592 - CMG - (5187)Camas WA

Submittal Number and Name: M-2 Captiveaire Shops

Review Number: 1

Furnish as Submitted

Other

Furnish as Noted

Revise and Resubmit:

This review is only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Any action shown is subject to the requirements of the plans and specifications. The Contractor is responsible for dimensions which shall be confirmed at the jobsite; fabrication processes, quantities, and techniques of construction; coordination of his work with that of other trades; and satisfactory performance of his work.

Comments:

NONE.

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#6887814

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	12' 9"	600 DEG	I	HEAVY	200	2550	10'	24'	4'	2550	1530	-0.966'	1300	696	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
1		CAPTRATE SOLID FILTER	9	16"	16"	85% SEE FILTER SPEC	8	L55 SERIES E26	NO	LEFT	12"x54"x24"	TANK FS	4.0/4.0	SC-31110MA	1 LIGHT 1 FAN	YES	1213 LBS

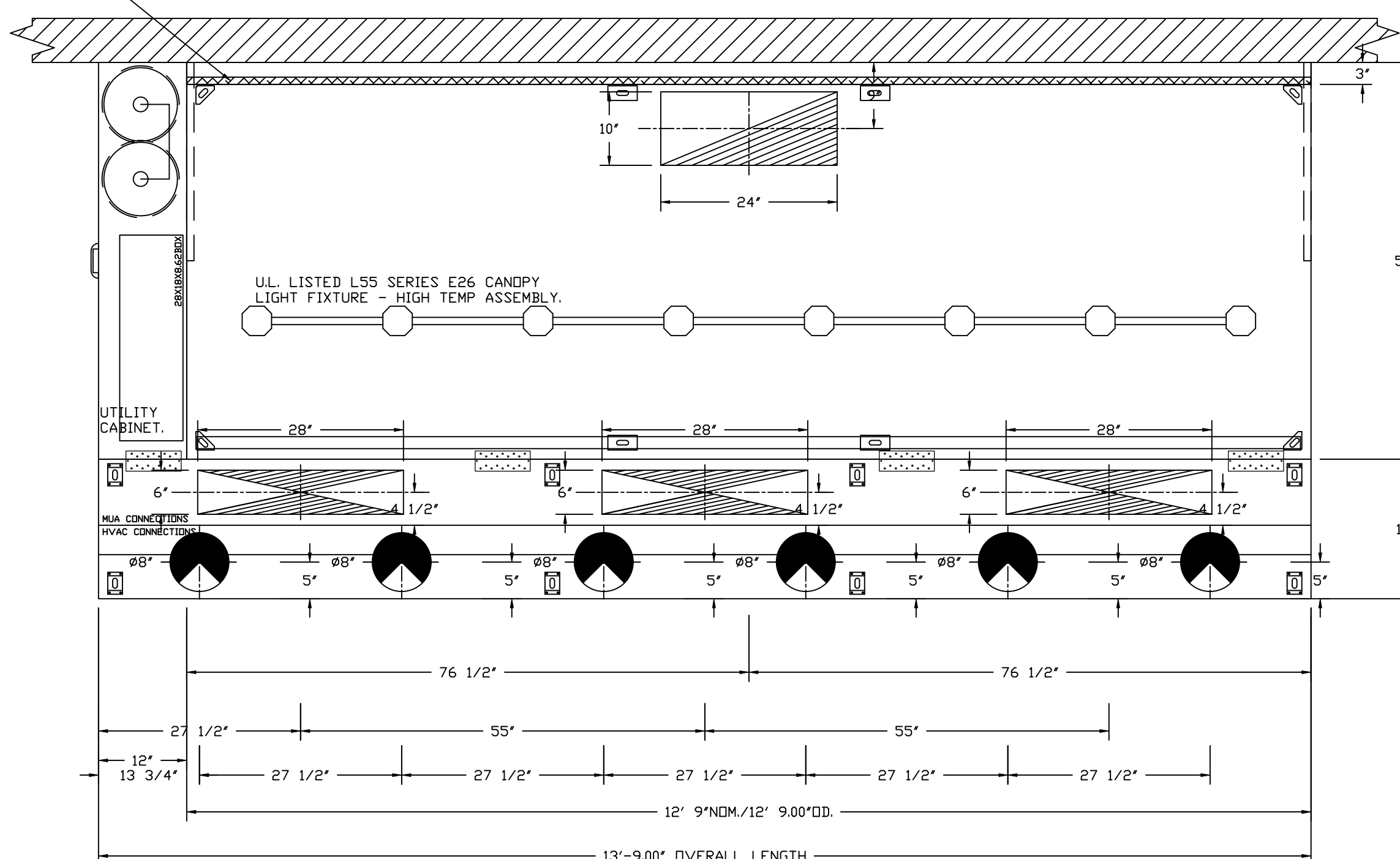
HOOD OPTIONS

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.

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	RISER(S)				
						TYPE	WIDTH	LENG	DIA	CFM
1		Front	165'	19'	6'	MUA	6"	28"	432	0.127"
						MUA	6"	28"	432	0.127"
						MUA	6"	28"	432	0.127"
						AC	8"	116	0.043'	
						AC	8"	116	0.043'	
						AC	8"	116	0.043'	
						AC	8"	116	0.043'	
						AC	8"	116	0.043'	
						AC	8"	116	0.043'	

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



PLAN VIEW - HOOD #1
12' 9.00" LONG 5424ND-2-ACPSP-F
NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12' AND LONGER.

ACPSP SHIPS LOOSE FOR FIELD INSTALLATION

CLEARANCE TO COMBUSTIBLES

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

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

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLID FILTER

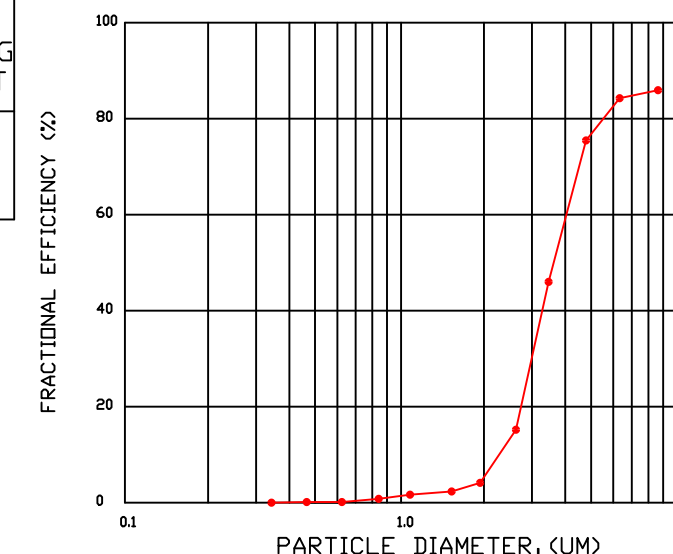
THE CAPTRATE GREASE-STOP SOLID FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

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

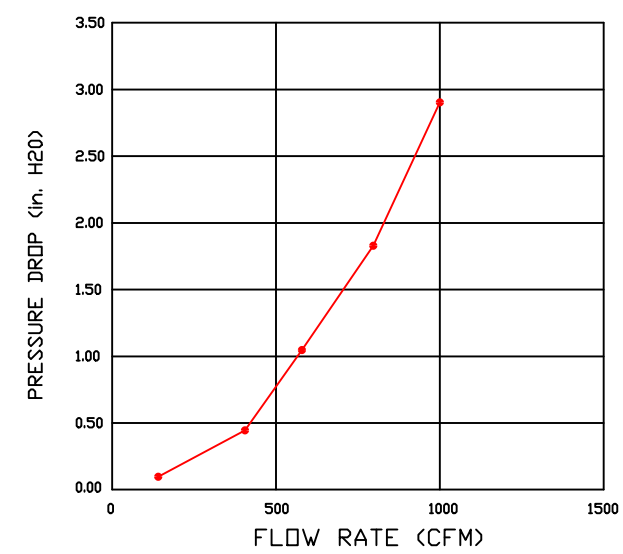
UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

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.

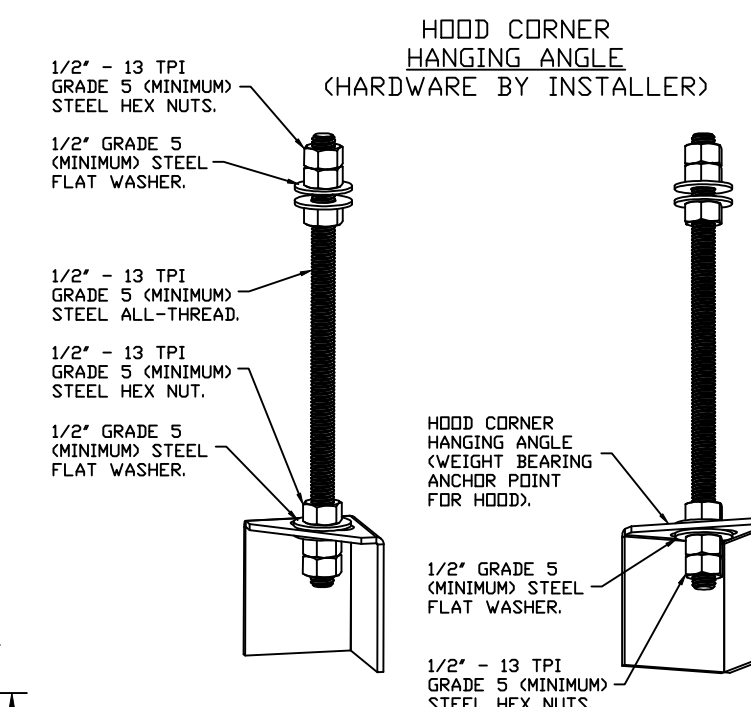
EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE

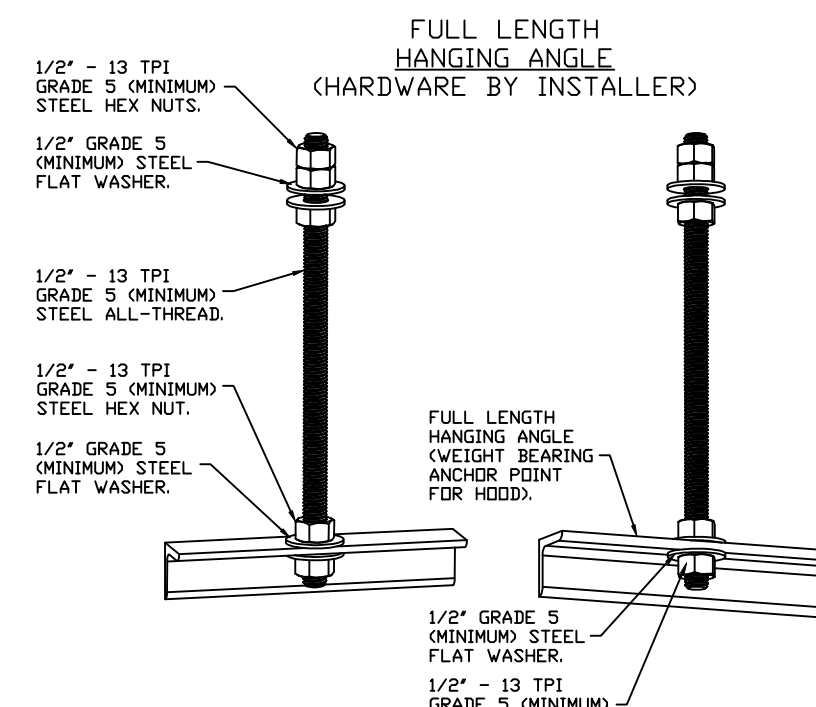


CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-S649.



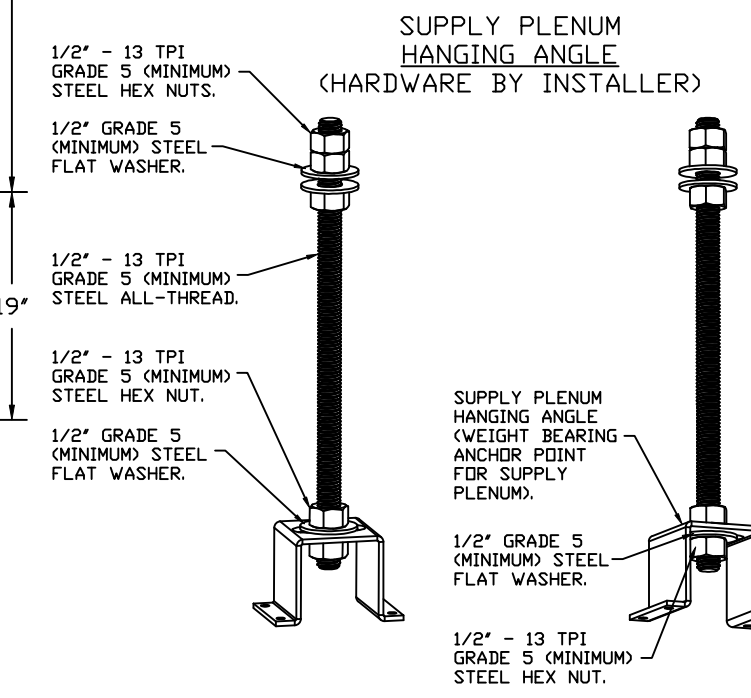
ASSEMBLY INSTRUCTIONS

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.



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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 CAMAS #5187
SE BRADY & 192ND AVE,
Camas, WA, 98607

DATE: 2/18/2025
DWG.#: 6887814
DRAWN BY: JMB-40
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
1

EXHAUST FAN INFORMATION – JOB#6887814

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	WEIGHT (LBS)	SDNES
1	EF-1	1	SIF15DD	CAPTIVEAIRE	2550	1.200	1805	TEFC,PREMIUM	2.000	0.9810	3	208	5.7	261	16.9

MUA FAN INFORMATION – JOB#6887814

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MDCP	WEIGHT (LBS)	SDNES
2	MAU-1	1	A1-D.250-15D	15MF-1-MDD	A1-D.250	1000	1300	0.500	1574	DDP,PREMIUM	1.000	0.5740	3	208	3.1	3.9A	15A	595	12.6

GAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO	TAG	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY(%)
2	MAU-1	78010	71769	54°F	7 IN. W.C. – 14 IN. W.C.	NATURAL	92

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	EF-1	1	SIF 15- SS LOW SP STRAIGHT DISCHARGE- SQUARE TO ROUND DISCHARGE ADAPTER
		1	SIF15 – INLET – STANDARD 16” DUCT CONNECTION
		1	SIF – HORIZONTAL OVERHEAD MOUNT – PRE-INSTALLED MOUNTS (1-36)
2	MAU-1	1	HANGING SPRING VIBRATION ISOLATORS (SET OF 4), FOR INDOOR OR OUTDOOR USE WITH SQUARE INLINE FANS (HSA125)
		1	2 YEAR PARTS WARRANTY
		1	INLET PRESSURE GAUGE, 0-35”
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15” WC
		1	SHIP LOOSE GAS STRAINER 3/4”
		1	MOTORIZED BACKDRAFT DAMPER FOR A1-D HOUSING – MEETS AMCA CLASS 1A RATING
		1	INSULATION OPTION FOR VBANK FILTER SECTION
		1	DF1 INDOOR HANGING OPTION – INCLUDES 2 HSA125 HANGING SPRING ISOLATORS PER UNI-STRUT
		1	LOW FIRE START
		1	FREEZESTAT
		1	SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) – THREE PHASE ONLY
1	2 YEAR PARTS WARRANTY		
1	EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET		

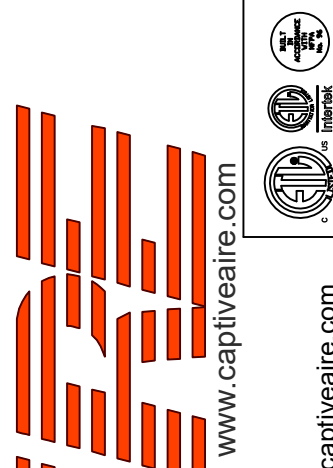
FAN ACCESSORIES

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

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

REVISIONS

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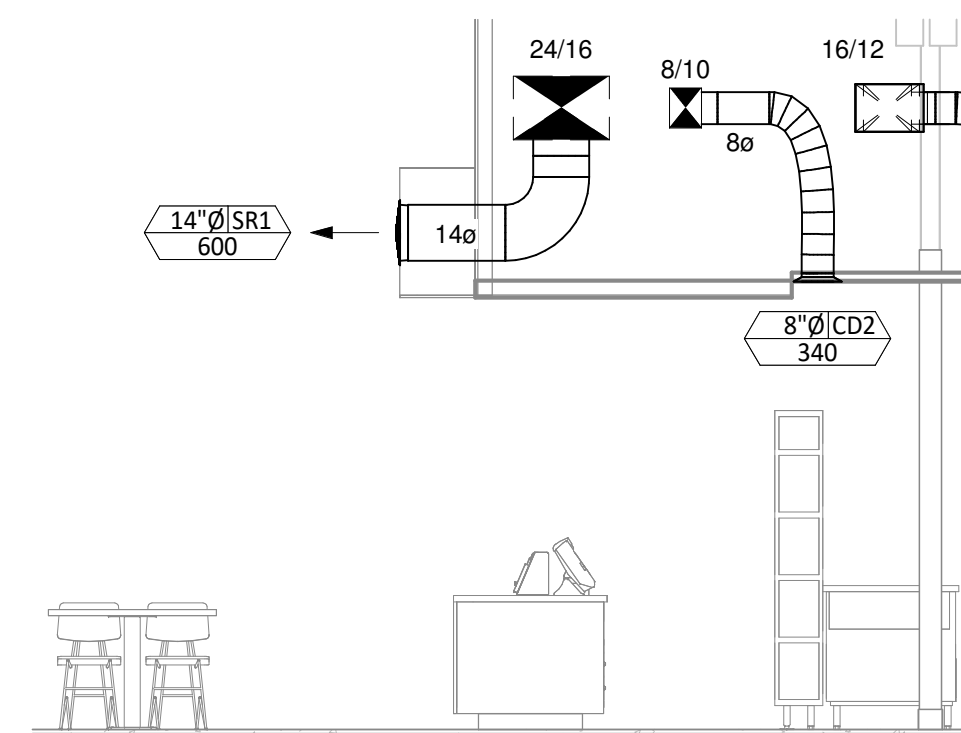
SHEET NO.
 5

HVAC PLAN NOTES

- SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING MOUNTED EQUIPMENT LOCATION. TYPICAL.
- PAINT DUCTWORK VISIBLE THROUGH DINING ROOM SUPPLY REGISTERS BLACK. TYPICAL.
- 18/16 RETURN AIR DUCTS TO F-1 AND F-2 RETURN CONNECTION AT BOTTOM OF UNIT WITH FILTER. F-1 AND F-2 TO HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE SHARED RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO F-1 AND F-2 OPERATION.
- 18/16 RETURN AIR DUCTS TO F-3 AND F-4 RETURN CONNECTION AT BOTTOM OF UNIT WITH FILTER. F-3 AND F-4 TO HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE SHARED RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO F-3 AND F-4 OPERATION.
- 18/16 SUPPLY AIR DUCT (F-1 AND F-2). COMBINE INTO COMMON SUPPLY DUCT.
- 18/16 SUPPLY AIR DUCT (F-3 AND F-4).
- 14/14 DUCT FROM MAU-1 SUPPLY CONNECTION.
- 6" DIA DUCT UP FROM HOOD TO EF-1 COMPLIANT WITH NFPA 96. PROVIDE RADIUS ELBOWS WITH AN INSIDE RADIUS OF 0.5W AT ELBOWS IN GREASE DUCT. PROVIDE CLEANOUT IN EACH CHANGE IN DIRECTION (MIN 3 SHOWN).
- 6" DIA DUCT FROM EF-2 AND EF-3. RUN TO EXTERIOR AND CONNECT INTO PLENUM BEHIND LOUVER.
- 28/6 DUCT DOWN TO MAKEUP AIR PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL FOR 3.
- 8" DIA. DUCT DOWN TO AC PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL. CAP UNUSED DUCT CONNECTIONS.
- INSTALL SINGLE-GANG VERTICAL J-BOX FOR GRIDPOINT THERMOSTATS FURNISHED BY TEMS FOR F-1, F-2, F-3 & F-4 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 F-3 AND F-4 (BOTH FURNACES CONTROLLED BY SINGLE THERMOSTAT) 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 F-1 AND F-2 (BOTH FURNACES CONTROLLED BY SINGLE THERMOSTAT) 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 F-1 AND F-2 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 F-4 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 MAKEUP AIR 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.
- INSTALL REMOTE CONDENSING UNIT FOR WALK-IN COOLER ON GRADE 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.

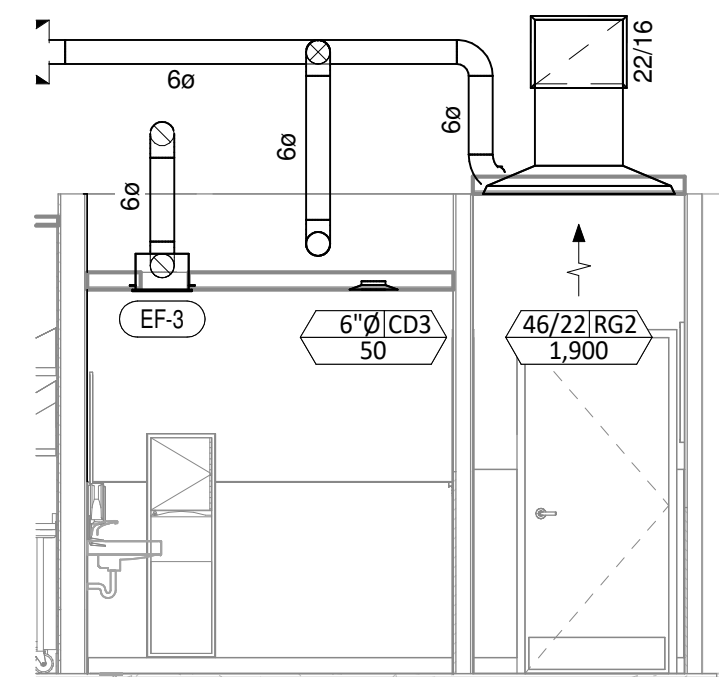
HVAC PLAN NOTES

- INSTALL REMOTE CONDENSER FOR ICE MACHINE ON GRADE 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 WALL. 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 OUTDOOR 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. INSTALL GREASE VIROGUARD SYSTEM FURNISHED BY CHIPOTLE ON EXHAUST FAN, EF-1.
- 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 DUCTWORK PER DETAIL 6/M700. SEE ELECTRICAL DRAWINGS FOR POWER CONNECTION INFORMATION. INSTALL UV WARNING STICKERS ON FACE OF ENCLOSURE PER DETAIL AND ON ANY ACCESS DOOR(S) THROUGH WHICH THE REME HALO WOULD BE VISIBLE IF OPENED.
- MAINTAIN MINIMUM 10" CLEARANCE BETWEEN FURNACE AND WATER HEATER FLUE TERMINATIONS AND OUTSIDE AIR INTAKES. MAINTAIN MINIMUM 10" CLEARANCE BETWEEN FURNACE AND WATER HEATER COMBUSTION AIR INTAKE AND EXHAUST DISCHARGE. SEE PLUMBING DRAWINGS FOR MORE INFORMATION ON WATER HEATER.
- 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 GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR F-3 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
- 10/10 OA DUCT FOR F-3 AND F-4.
- 14/12 OA DUCT FOR F-1 AND F-2.
- COMBUSTION AIR INTAKE FOR FURNACES F-1, F-2, F-3 AND F-4. PROVIDE 90-DEG ELBOW WITH WIRE MESH SCREEN AT INLET.
- FLUE EXHAUST FOR FURNACES F-1, F-2, F-3 AND F-4.
- INSTALL CONDENSING UNIT ON CONCRETE PAD. SIZE REFRIGERANT PIPING TO COOLING COIL PER MANUFACTURER'S RECOMMENDATIONS. SUPPORT PIPING AS REQUIRED.
- 44/38 +/- OUTDOOR AIR INTAKE LOUVER. LOUVER TO BE EQUAL TO GREENHECK MODEL ESD-403 STATIONARY LOUVER, 50% FREE AREA, DRAINABLE BLADE, EXTRUDED ALUMINUM WITH WIRE MESH SCREEN (OR APPROVED EQUAL). VERIFY IN FIELD TO SIZE LOUVER TO FIT WITHIN EXISTING GLASS OPENING. PROVIDE 30-INCH DEEP INSULATED PLENUM BEHIND.
- 26/38 +/- EXHAUST LOUVER FOR EF-1 DISCHARGE EQUAL TO GREENHECK MODEL ESD-403 STATIONARY LOUVER, 50% FREE AREA, DRAINABLE BLADE, EXTRUDED ALUMINUM WITH WIRE MESH SCREEN (OR APPROVED EQUAL). VERIFY IN FIELD TO SIZE LOUVER TO FIT WITHIN EXISTING GLASS OPENING.
- 26/38 +/- TOILET EXHAUST LOUVER EQUAL TO GREENHECK MODEL ESD-403 STATIONARY LOUVER, 50% FREE AREA, DRAINABLE BLADE, EXTRUDED ALUMINUM WITH INSECT SCREEN (OR APPROVED EQUAL). VERIFY IN FIELD TO SIZE LOUVER TO FIT WITHIN EXISTING GLASS OPENING. PROVIDE 18-INCH DEEP FULL SIZE INSULATED PLENUM BEHIND LOUVER FOR DUCT CONNECTION FROM EF-2 AND EF-3.
- COMMON OUTDOOR AIR DUCT SERVING FURNACES (F-1, F-2, F-3 AND F-4).



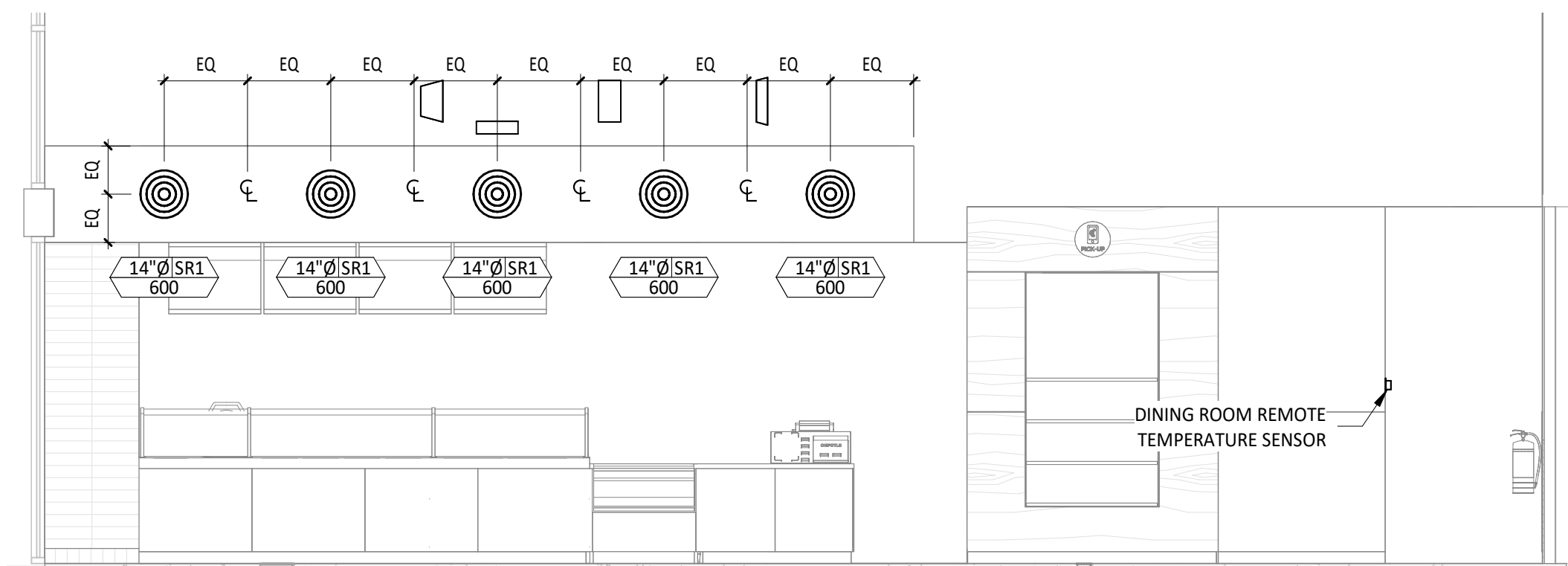
HVAC DINING ROOM SECTION

3
M100
1/4" = 1'-0"



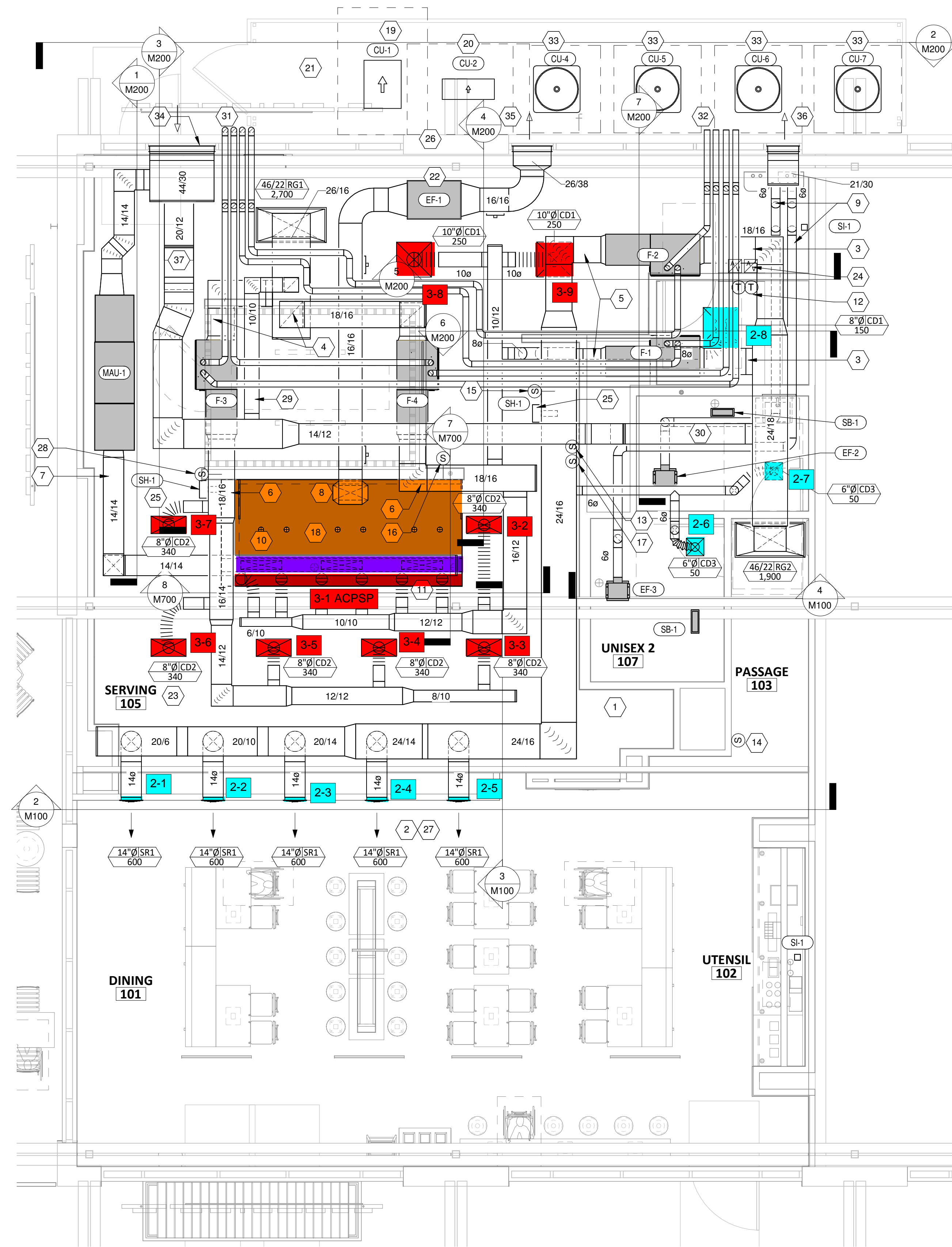
HVAC DINING ROOM RETURN SECTION

4
M100
1/4" = 1'-0"



HVAC DINING ROOM SECTION

2
M100
1/4" = 1'-0"



HVAC FLOOR PLAN

1
M100
1/4" = 1'-0"



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STORE NO.: 45-5187
CAMAS
19530 SE BRADY RD, SUITE 100
CAMAS, WA 98607

Issue Record:

12/09/2024	PERMIT SET
07/28/2025	CONSTRUCTION SET

Revisions:

Drawn:	Checked:
FMS	PD

Project No:
230592

Contents:
HVAC PLAN

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"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4320A TYPE L	PROVIDE WITH INTEGRAL OBD
CD2	PERFORATED CEILING DIFFUSER	24" X 12"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4320A TYPE L	PROVIDE WITH INTEGRAL OBD, REMOVE 4-WAY DEFLECTORS
CD3	PERFORATED CEILING DIFFUSER	12" X 12"	ALUMINUM	WHITE	SURFACE MOUNT	GC	GC	NAILOR	4320A TYPE S	PROVIDE WITH INTEGRAL OBD
RG1	PERFORATED CEILING RETURN	48" X 24"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4330R TYPE L	
RG2	PERFORATED CEILING RETURN	48" X 24"	ALUMINUM	WHITE	SURFACE MOUNT	GC	GC	NAILOR	4330R TYPE S	
SR1	ADJUSTABLE TURBO NOZZLE	SEE NECK SIZE	ALUMINUM	WHITE	WALL	GC	GC	AIR CONCEPTS	ANR-14	PROVIDE WITH CONCEALED MOUNTING AND FACE-ACCESSIBLE OBD

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.

AIR BALANCE SCHEDULE

TAG	SUPPLY	RETURN	OUTSIDE AIR	EXHAUST AIR
FUR-1&2	2,900	1,900	1,000	0
FUR-3&4	3,200	2950	500	0
MAU-1	1,300	0	1,300	0
EF-1	0	0	0	-2,550
EF-2&3	0	0	0	-160
NET PRESSURIZATION=			+90	

CONTROL FUNCTIONS

- THE MAIN COOKING EXHAUST FAN AND MAKE-UP AIR UNIT SHALL BE INTERLOCKED TO OPERATE TOGETHER. THIS CONTROL CIRCUIT IS ACTIVATED BY A SWITCH AND INCLUDES A FIRE PROTECTION OVERRIDE.
- 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.
- THE THERMOSTATS SHALL DETERMINE OCCUPIED/UNOCCUPIED STATUS BASED ON THE SCHEDULE IN THE ENERGY MANAGEMENT SYSTEM.

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	GREASE EXHAUST FAN	2,550 CFM	1.20 in-wg	596 lb	2 hp	208/3/60	HS	GC	CAPTIVEAIRE	SIBD150A-CA	DIRECT DRIVE UL762 STRAIGHT THROUGH DISCHARGE EXHAUST FAN FURNISHED WITH DISCONNECT, SQUARE TO ROUND DISCHARGE ADAPTER, STANDARD 16" DUCT CONNECTION INLET, HORIZONTAL OVERHEAD MOUNT WITH HANGING SPRING VIBRATION ISOLATORS
EF-2	INLINE RESTROOM EXHAUST FAN	80 CFM	0.25 in-wg	12 lb	9.6 W	120/1/60	HS	GC	WHISPERGREEN	FV-0511VK2	FLUSH TO CEILING MOUNT, INLINE FAN.
EF-3	INLINE RESTROOM EXHAUST FAN	80 CFM	0.25 in-wg	12 lb	9.6 W	120/1/60	HS	GC	WHISPERGREEN	FV-0511VK2	FLUSH TO CEILING MOUNT, INLINE FAN.

CONDENSING UNIT SCHEDULE - KITCHEN EQUIPMENT

TAG	DESCRIPTION	NOMINAL CAPACITY	NUMBER OF		REFRIGERANT		WEIGHT	ELECTRICAL			FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
			COMPRESSORS	CIRCUITS	TYPE	CHARGE		MOCP	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	KPCL99M2OP-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

MAKEUP AIR UNIT SCHEDULE

TAG	DESCRIPTION	AIRFLOW	E.S.P.	HEATING			WEIGHT	ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
				INPUT	OUTPUT	EAT		MOTOR POWER	V/P/H			MANUFACTURER	MODEL	
MAU-1	DIRECT-FIRED MAKEUP AIR UNIT	1,300 CFM	0.50 in-wg	78,010 Btu/h	71,769 Btu/h	32 F	588 lb	1 hp	208/3/60	HES	GC	CAPTIVE-AIRE	A1-D.250-15D	12.5:1 MAX TURNDOWN. FURNISHED WITH DISCONNECT, DF1 INDOOR HANGING OPTION WITH SPRING ISOLATORS, AND WASHABLE ALUMINUM FILTERS

KITCHEN HOOD SCHEDULE

TAG	DESCRIPTION	MAX COOKING TEMP.	AIRFLOW	E.S.P.	EXHAUST PLENUM					PERFORATED SUPPLY PLENUMS						NO. OF LIGHT FIXTURES	WEIGHT	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS			
					DUCT COLLARS					MAU PLENUM			AC PLENUM							MANUFACTURER	MODEL				
					NO.	WIDTH	LENGTH	LENGTH	WIDTH	NO.	WIDTH	LENGTH	AIRFLOW	NO.	DIAMETER										
HD-1	TYPE I CANOPY HOOD WITH PERFORATED MAU AND AC SUPPLY PLENUMS	600 F	2,550 CFM	0.97 in-wg	1	10"	2' - 0"	12' - 9"	4' - 3"	13' - 9"	1' - 7"	1,300 CFM	3	6"	2' - 4"	700 CFM	6	8"	8	1,150 lb	HS	GC	CAPTIVE-AIRE	5424 ND-2-ACPSP-F	MAT'L: 18 GA. TYPE 430 SS. FURNISHED WITH VERTICAL END PANELS, 24V GAS VALVE, VAPORPROOF INCANDESCENT LIGHT FIXTURES, 16" TALL HE SS FILTERS, INTEGRAL UTILITY CABINET, KITCHEN EXHAUST SUPPRESSION SYSTEM, DUCT COLLAR TEMPERATURE SENSOR, PREWIRE PACKAGE, SPARE FIRE SYSTEM DRY CONTACT, AND 4-POLE 20A CONTACTOR

CONDENSING UNIT SCHEDULE - CONDITIONERS

TAG	MANUFACTURER	MODEL	SERVICE	NOMINAL CAPACITY	OPERATING CONDITIONS					ELECTRICAL DATA			ARI RATINGS		DIMENSIONS LxWxH (IN.)	OP. WT. (LBS)	NOTES
					OAT DB (DEG. F.)	OAT WB (DEG. F.)	COIL EAT (DEG. F.)	COIL MIN. CAP. SENS. (MBH)	NET OUTPUT (MBH-ALT)	VOLTS/PH.	MOP	MCA	SEER	EER			
CU-4	CARRIER	24SPA648W003	F-1	4 TONS	92	68	77.3	37.3	44.7	208-230/1PH	50	32.5	16	11.7	32x31x31	201	A-F
CU-5	CARRIER	24SPA648W003	F-2	4 TONS	92	68	77.3	37.3	44.7	208-230/1PH	50	32.5	16	11.7	32x31x31	201	A-F
CU-6	CARRIER	24SPA648W003	F-3	4 TONS	92	68	77.3	38.4	45.2	208-230/1PH	50	32.5	16	11.7	32x31x31	201	A-F
CU-7	CARRIER	24SPA648W003	F-4	4 TONS	92	68	77.3	38.4	45.2	208-230/1PH	50	32.5	16	11.7	32x31x31	201	A-F

NOTES:
A. 25° F LOW AMBIENT KIT.
B. REFRIGERANT LINE SET, SIZED BY MANUFACTURER.
C. COMPRESSOR HARD START KIT.
D. CRANKCASE HEATER.
E. HAIL GUARD.
F. LEVEL 6" CONCRETE PAD BY M.C.

EQUALS BY: TRANE, GOODMAN, JCI, OR OTHER NATIONALLY RECOGNIZED MANUFACTURER.

FURNACE SCHEDULE

TAG	MANUFACTURER	MODEL	DESCRIPTION	FAN DATA				MOTOR/ELECTRICAL DATA			HEAT			COOLING			DIMENSIONS LxWxH (IN.)	OP. WT. (LBS)	NOTES		
				AIR FLOW (CFM)	MIN. OA (CFM)	E.S.P. (IN. W.C.)	OPER. ELEV. (FEET)	HORSE POWER	VOLTS/PH.	MOP	MCA	FUEL	INPUT (MBH)	% EFF.	OUTPUT (MBH-ALT)	TYPE				NOMINAL CAPACITY	COIL MODEL NUMBER
F-1	CARRIER	59SC6A080M21--20	DINING ROOM UNIT	1,450	500	0.75	50	1	120V/1PH	15	13.1	N. GAS	80	96	78	DX COIL	4 TONS	CAPMP4821ALA	30x21x35	242	A-C
F-2	CARRIER	59SC6A080M21--20	DINING ROOM UNIT	1,450	500	0.75	50	1	120V/1PH	15	13.1	N. GAS	80	96	78	DX COIL	4 TONS	CAPMP4821ALA	30x21x35	242	A-C
F-3	CARRIER	59SC6A080M21--20	KITCHEN UNIT	1,600	250	0.75	50	1	120V/1PH	15	13.1	N. GAS	80	96	78	DX COIL	4 TONS	CAPMP4821ALA	30x21x35	242	A-C
F-4	CARRIER	59SC6A080M21--20	KITCHEN UNIT	1,600	250	0.75	50	1	120V/1PH	15	13.1	N. GAS	80	96	78	DX COIL	4 TONS	CAPMP4821ALA	30x21x35	242	A-C

NOTES:
A. SEALED COMBUSTION, MINIMUM 90% EFFICIENT.
B. EC MOTOR.
C. MERV 13 FILTER.

EQUALS BY: TRANE, DAIKIN, GOODMAN, JCI, OR ENGINEER APPROVED EQUAL.

Consultant:

Bowman

353 3RD AVENUE, #100
LONGMONT, CO 80501
TEL 303.676.1100
WWW.BOWMAN.COM



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CHIPOTLE MEXICAN GRILL, INC.
PO BOX 182566
COLUMBUS, OH 43218-2566
TELEPHONE: 614.318.2400
INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 45-5187

CAMAS
CAMAS
19530 SE BRADY RD, SUITE 100
CAMAS, WA 98607

Issue Record:

12/09/2024	PERMIT SET
07/28/2025	CONSTRUCTION SET

Revisions:

Drawn: FMS Checked: PD

FMS PD

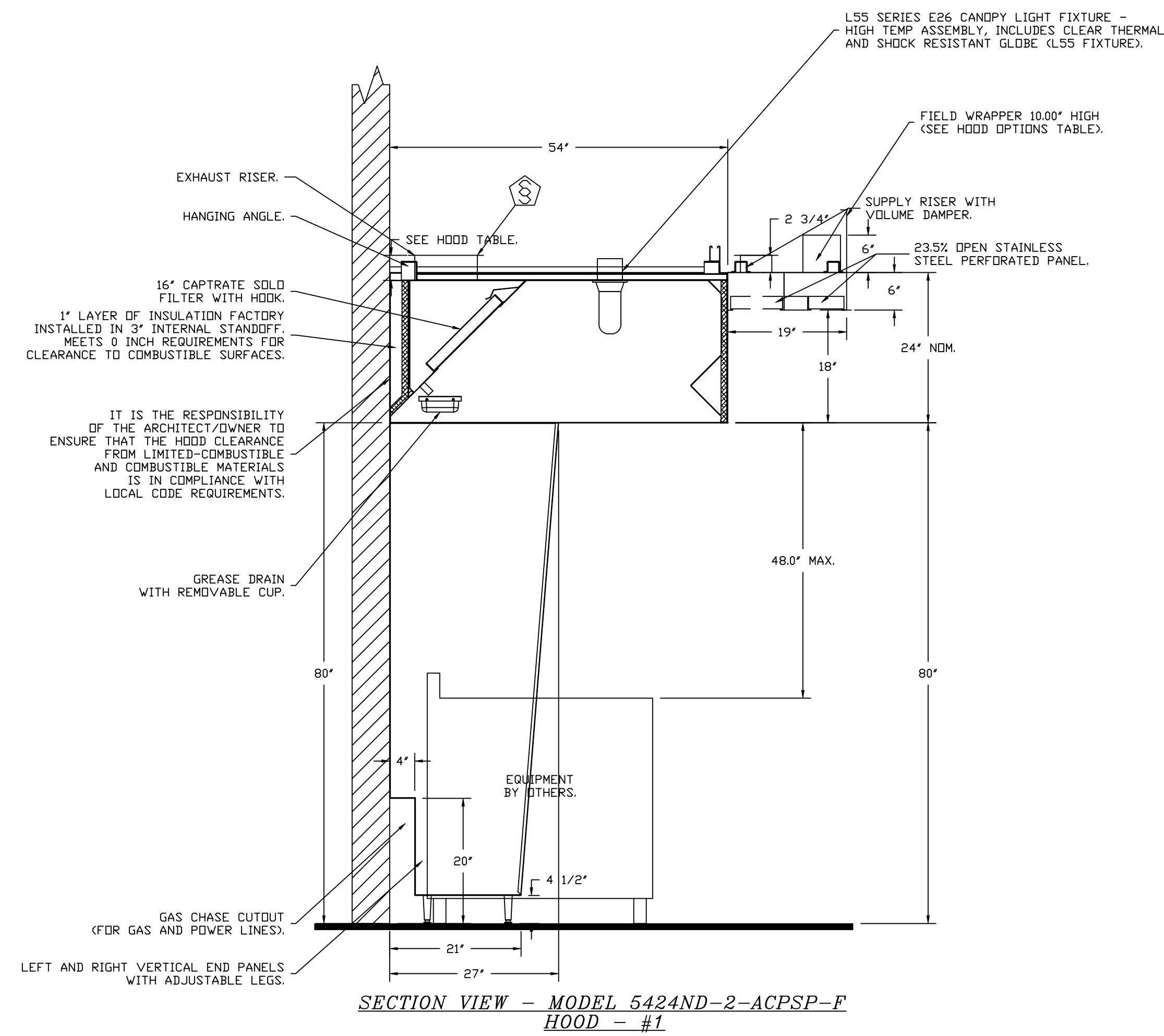
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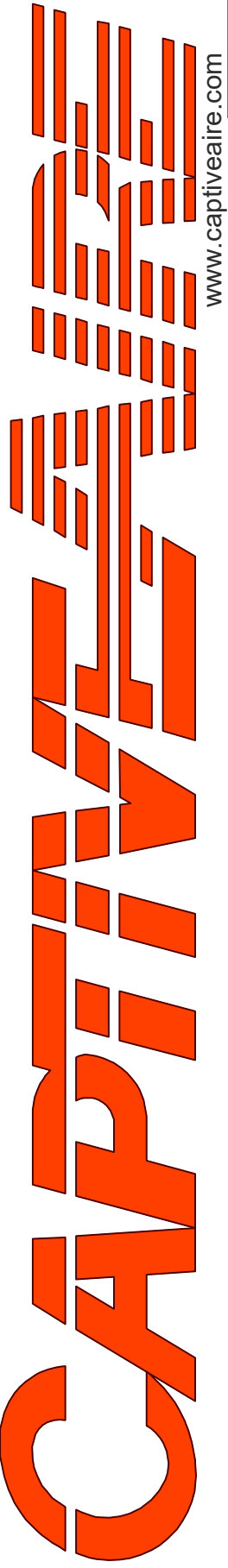
Contents:

HVAC SCHEDULES

M600



REVISIONS	
DESCRIPTION	DATE



Highwoods Group

www.captiveaire.com

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

CHIPOTLE CAMAS #5187
 SE BRADY & 192ND AVE,
 Camas, WA, 98607

DATE: 2/18/2025
DWG.#: 6887814
DRAWN BY: JMB-40
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
 2

FIRE SYSTEM INFORMATION - JOB#6887814

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0	40	32	FIRE CABINET LEFT	LEFT, HOOD 1

GAS VALVE(S)

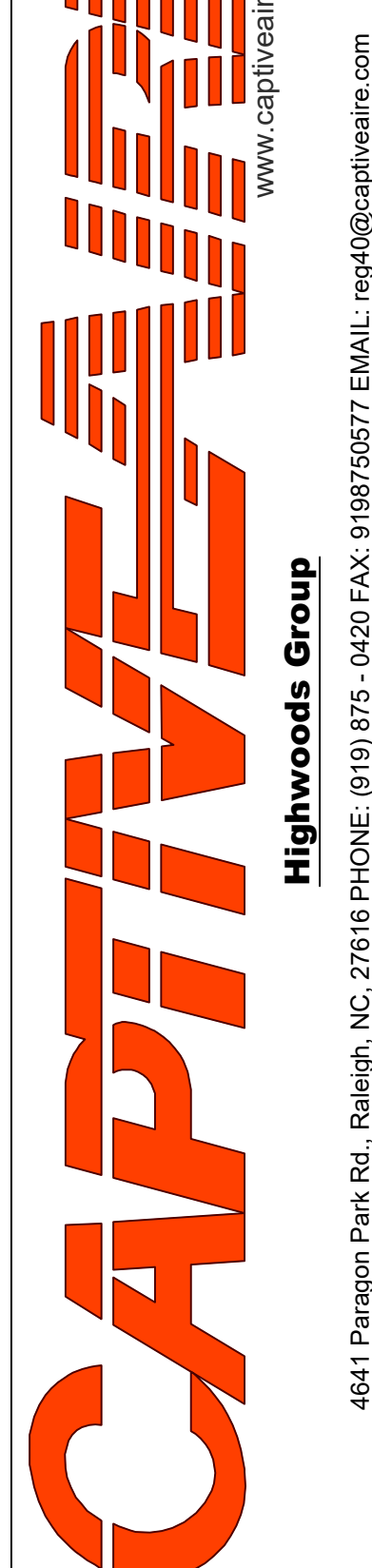
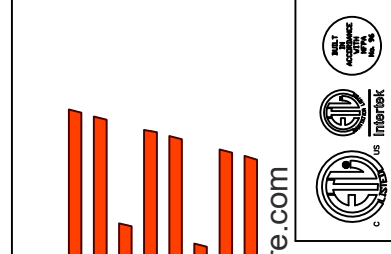
FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL	1.500	CAPTIVEAIR SYSTEMS

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 - 87-300033-001 DIN CONNECTOR, CANFIELD PART #5J560-201-EU0A, TANK FIRE SUPPRESSION, SUBMINATURE SOLENOID CONNECTION (CED VENDOR 30377).	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.	7	0
		0 - 0 - 9097200PC PRO PRESS PC611 1/2 PRESS TEE LD.	7	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.	3	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.	8	0
		16 - 16 - DL-F NOZZLE - TANK PROTECTION APPLIANCE COVERAGE NOZZLE (INCLUDES METAL BLOW OFF CAP, LANYARD, USED WITH CHROME-PLATED PIPE).	8	0
		26 - 26 - QSA-3/8 QUIK SEAL - 3/8" (UL).	8	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 CAMAS #5187
SE BRADY & 192ND AVE,
Camas, WA, 98607

DATE: 2/18/2025

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6887814

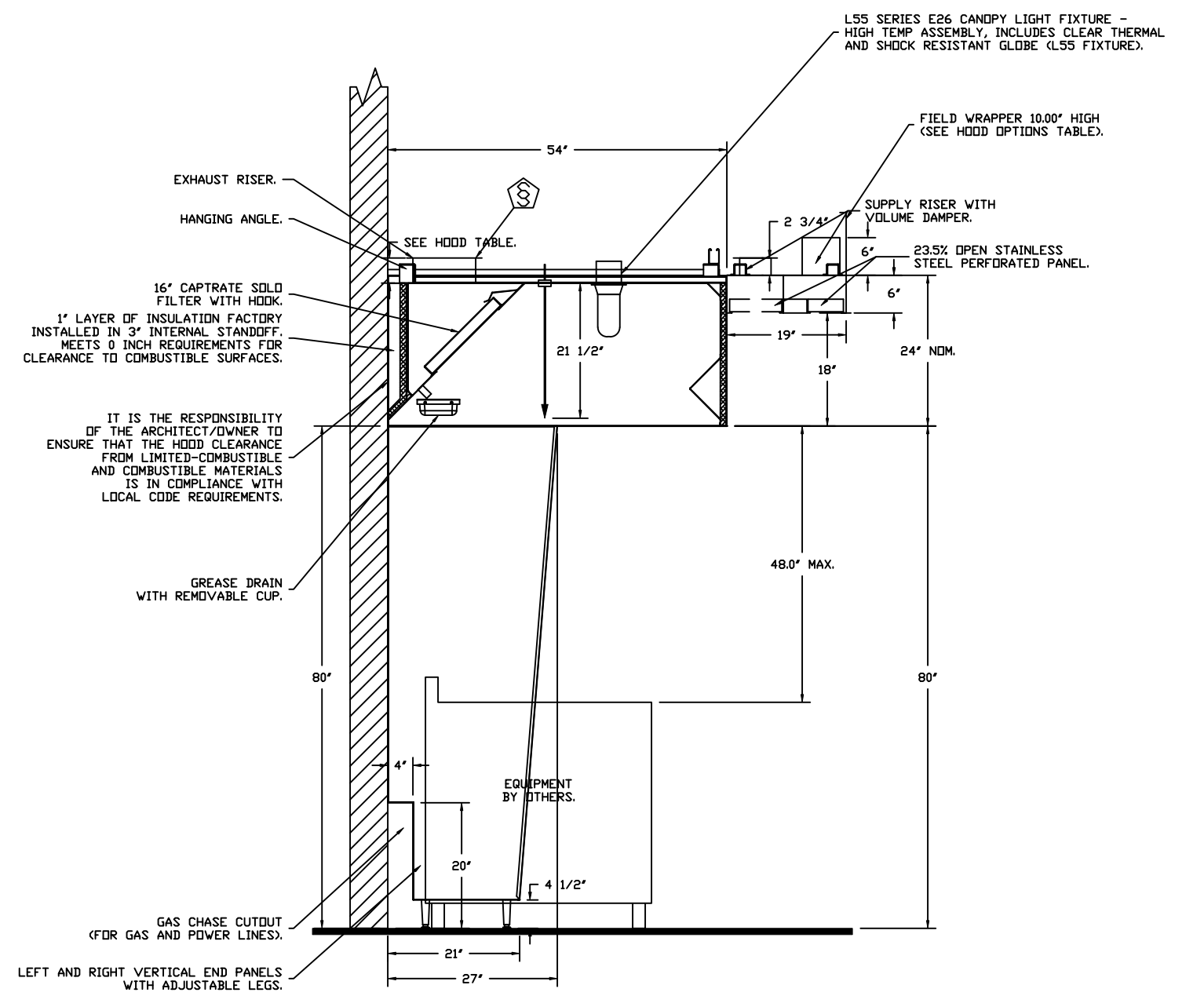
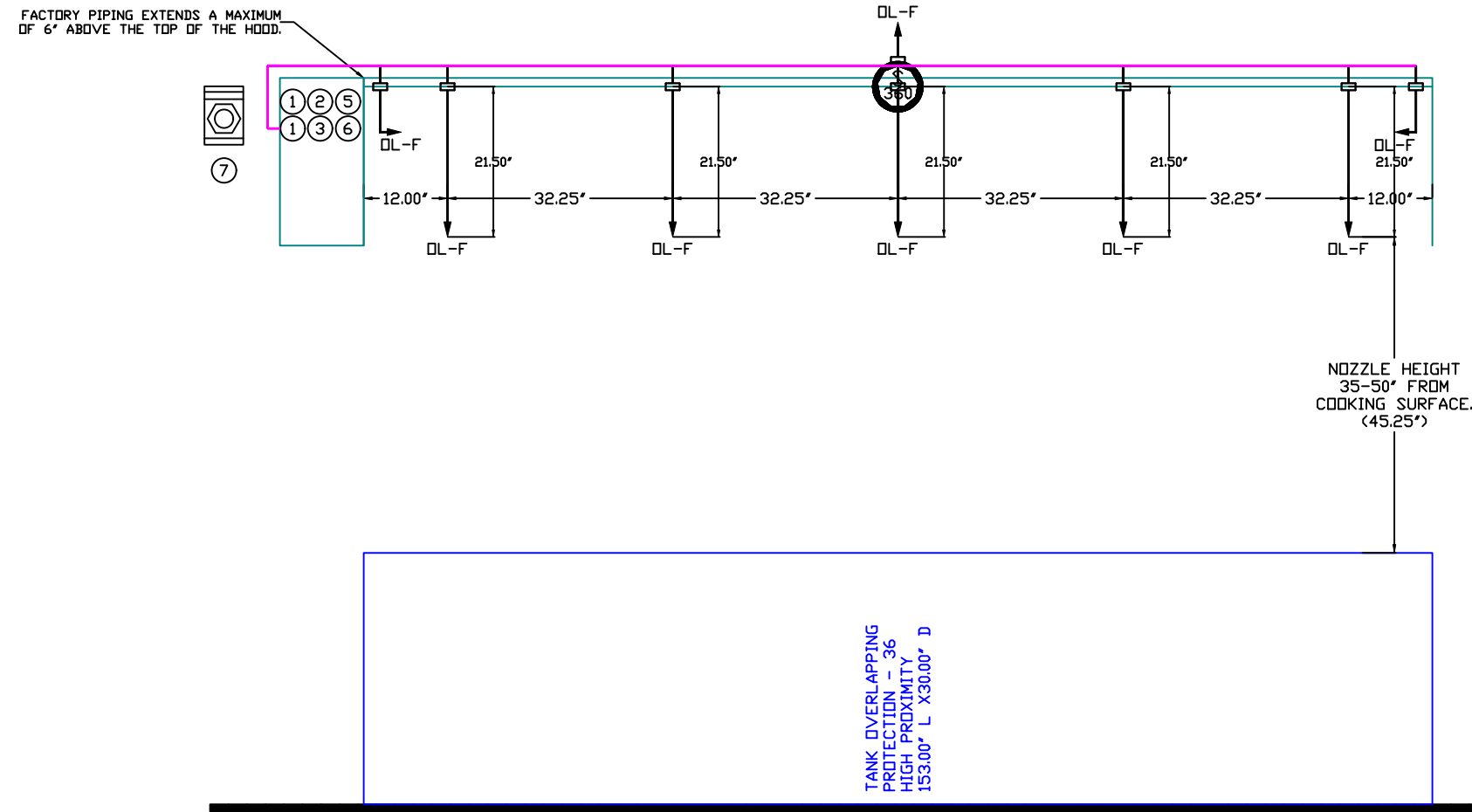
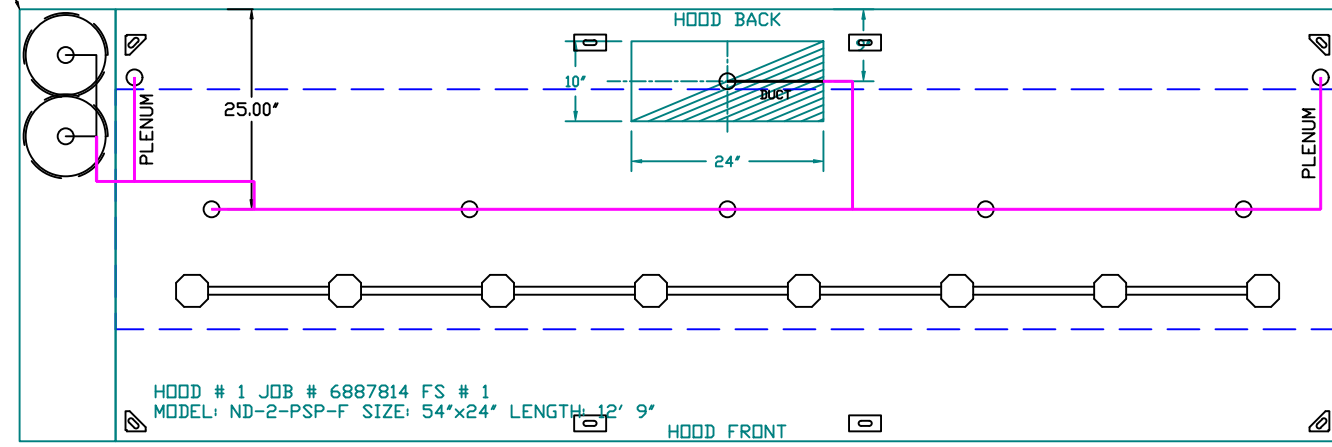
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SCALE:
3/4" = 1'-0"

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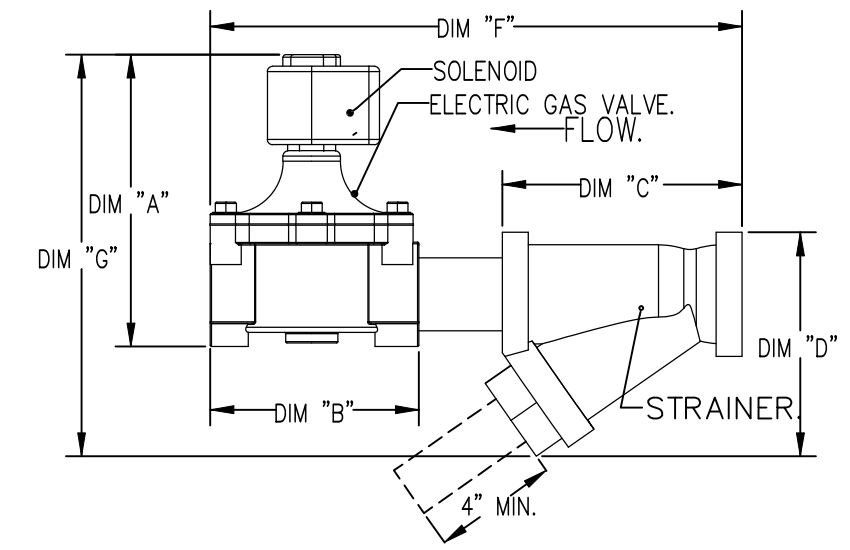
SHEET NO.
3

- 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 1.5 FT OF EQUIVALENT LENGTH. SEE MANUAL FOR DETAILS.



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

GAS VALVES AND STRAINERS										
GAS VALVE SIZING					GAS VALVE DIMENSIONS					
TYPE	SIZE	VOLTAGE	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"
ELECTRICAL	1-1/2"	24 VDC	0 PSIG (0 IN.W.C.)	5 PSIG (1.38 IN.W.C.)	2,400,000 BTU/HR	1,561,219 BTU/HR	7-5/8"	6-3/8"	5-3/4"	6-3/16"
ELECTRIC GAS VALVES ONLY/SOLOID ORIENTATION					ALL GAS VALVES/STRAINERS					
3/4"-2" 120VAC GAS VALVES CAN BE MOUNTED WITH THE SOLENOID IN ANY POSITION AT OR ABOVE HORIZONTAL					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.					
2 1/2"-3" 120VAC GAS VALVES MUST BE MOUNTED WITH THE SOLENOID VERTICAL AND UPRIGHT.					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 ^{0.85}					
24VDC GAS VALVES MUST BE MOUNTED WITH THE SOLENOID VERTICAL AND UPRIGHT.					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) ^{0.85}					



- 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 PRE-ENGINEERED FIRE SYSTEM COMPLIES WITH UL 300 REQUIREMENTS.
- DL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS
- JOB #: 6887814
- JOB NAME: CHIPOTLE CAMAS #5187.

SYSTEM SIZE: TANK-SP-2 DESIGN FP: 32. MAXIMUM FP: 40.
HOOD # 1 12" 9.00' LONG X 54" WIDE X 24" HIGH.
RISER # 1 SIZE: 10" X 24".
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.

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 EXTINGUISHERS, ON-SITE RE-PIPING DUE TO EQUIPMENT LAYOUT CHANGES.

REVISIONS

DESCRIPTION	DATE:

CAPTIVE

Highwoods Group

www.captivefire.com

4641 Paragon Park Rd., Raleigh, NC, 27616 PHONE: (919) 975 - 0420 FAX: 9198750577 EMAIL: reg40@captivefire.com

CHIPOTLE CAMAS #5187

SE BRADY & 192ND AVE,
Camas, WA, 98607

DATE: 2/18/2025

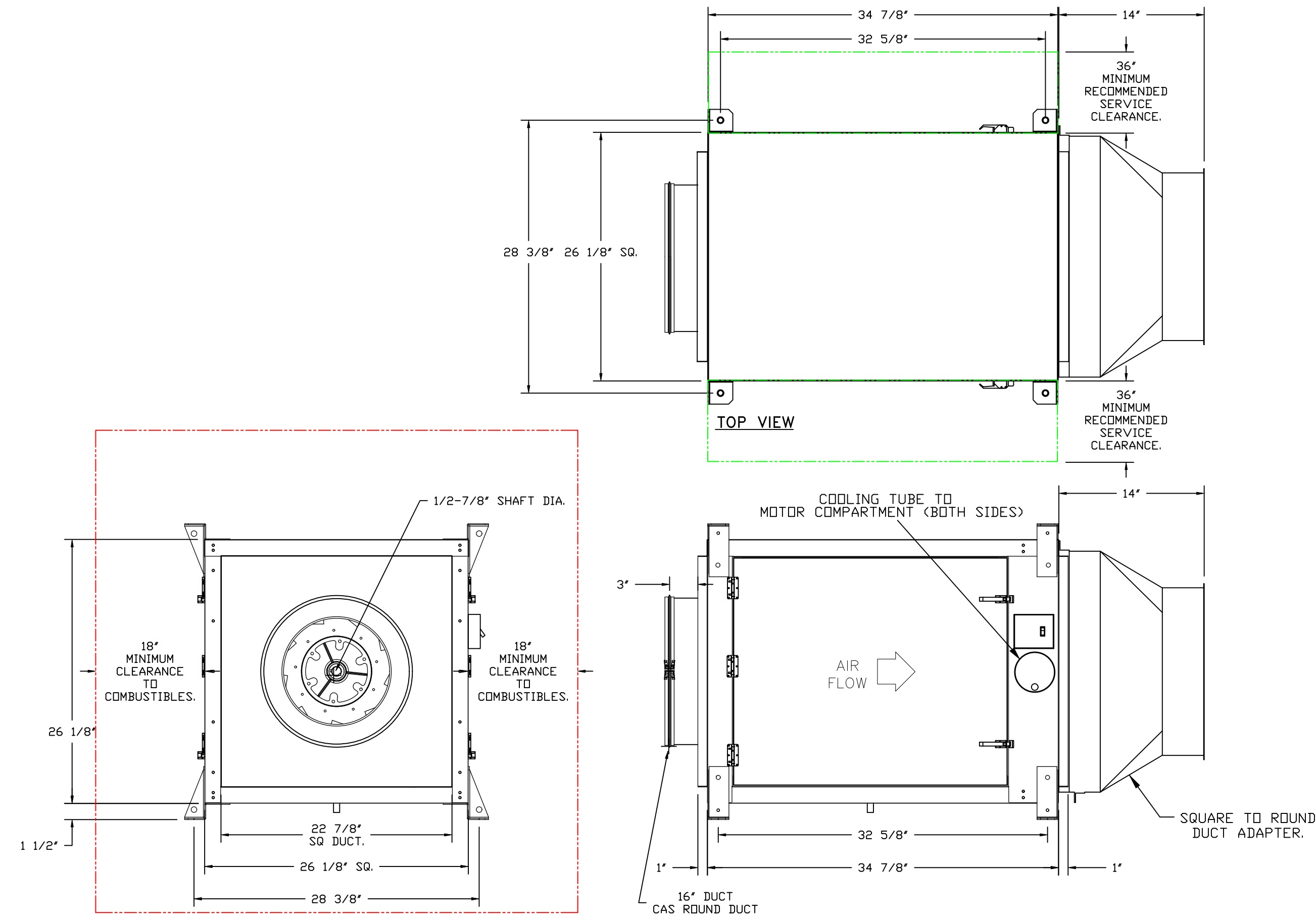
DWG.#:
6887814

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

MASTER DRAWING

SHEET NO.
4



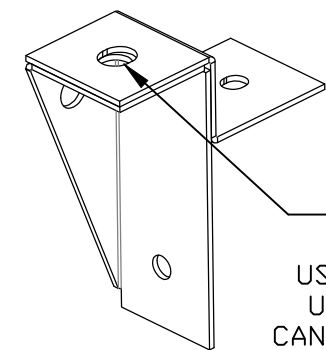
FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- TWO ACCESS DOORS FOR EASY ACCESS.
- BACKWARD INCLINED NON-OVERLOADING WHEELS.
- UL762 LISTING.
- AMCA AIR & SOUND CERTIFIED.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- NEMA 3R SAFETY DISCONNECT SWITCH.
- DRAIN MUST BE CONNECTED TO OPTIONAL GREASE BOX OR PIPED TO GREASE RESERVOIR (RECOMMENDED).

OPTIONS

- SIF 15- SS LOW SP STRAIGHT DISCHARGE - SQUARE TO ROUND DISCHARGE ADAPTER.
- SIF15 - INLET - STANDARD 16" DUCT CONNECTION.
- SIF - HORIZONTAL OVERHEAD MOUNT - PRE-INSTALLED MOUNTS (11-36).
- HANGING SPRING VIBRATION ISOLATORS (SET OF 4), FOR INDOOR OR OUTDOOR USE WITH SQUARE INLINE FANS (HSA125).
- 2 YEAR PARTS WARRANTY.

- NOTES:**
- DWXXFRISER USED WHEN CONNECTING TO STANDARD DUCT.
 - DWXXFRISERS ARE INSTALLED ON THE INTAKE AND/OR DISCHARGE SIDES.



UNIVERSAL MOUNTING BRACKET

1/2" DIA. THREADED ROD ONLY
.560" DIA. MOUNTING HOLES.
USED WITH CEILING VIBRATION ISOLATORS.
USED WITH FLOOR VIBRATION ISOLATORS.
CAN BE RELOCATED IN THE FIELD AS NEEDED.

REVISIONS	
DESCRIPTION	DATE:

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

CHIPOTLE CAMAS #5187
SE BRADY & 192ND AVE,
Camas, WA, 98607

DATE: 2/18/2025
DWG.#: 6887814
DRAWN BY: JMB-40
SCALE: 3/4" = 1'-0"
MASTER DRAWING

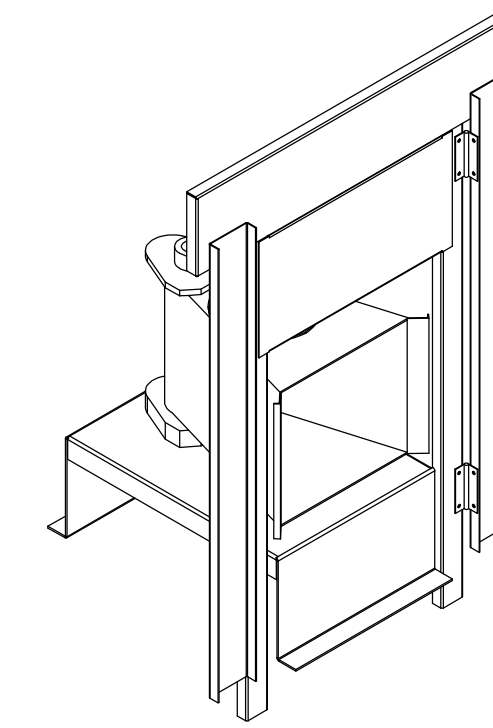
SHEET NO.
6

- FAN #2 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 - INDDOR.
 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. SHIP LOOSE GAS STRAINER, TO BE INSTALLED UPSTREAM OF UNIT CONNECTION, 3/4" CONNECTION.
 7. MOTORIZED BACK DRAFT DAMPER 16" X 18" FOR SIZE 1 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, TFB20S ACTUATOR INCLUDED.
 8. "INSULATION" FOR V-BANK INTAKE OPTION.
 9. INDDOR HANGING CRADLE FOR THE SIZE 1 DIRECT FIRED UNIT. 2 HSA125 HANGING ISOLATORS PER UNI-STRUT INCLUDED.
 10. LOW FIRE START. ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
 11. FREEZE STAT.
 12. SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PREVIRE PANEL OR WITH DCV PACKAGE. PROVIDES SEPARATE 120VAC INPUT TO SUPPLY FAN. THIS 120V SIGNAL MUST BE RUN BY ELECTRICIAN FROM DCV TO MUA SWITCH.
 13. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER SECTION).
 14. EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET.
 15. 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 = 29°F. TEMP. RISE = 54°F.
 BTUs CALCULATED OFF ACTUAL AIR DENSITY.
 OUTPUT BTUs AT ALTITUDE OF 0.0 FT. = 73892.
 INPUT BTUs AT ALTITUDE OF 0.0 FT. = 80317.
 OUTPUT BTUs AT ALTITUDE OF 697 FT. = 72950.
 INPUT BTUs AT ALTITUDE OF 697 FT. = 78315.



DIRECT FIRED (DF) PROFILE PLATE ASSEMBLY

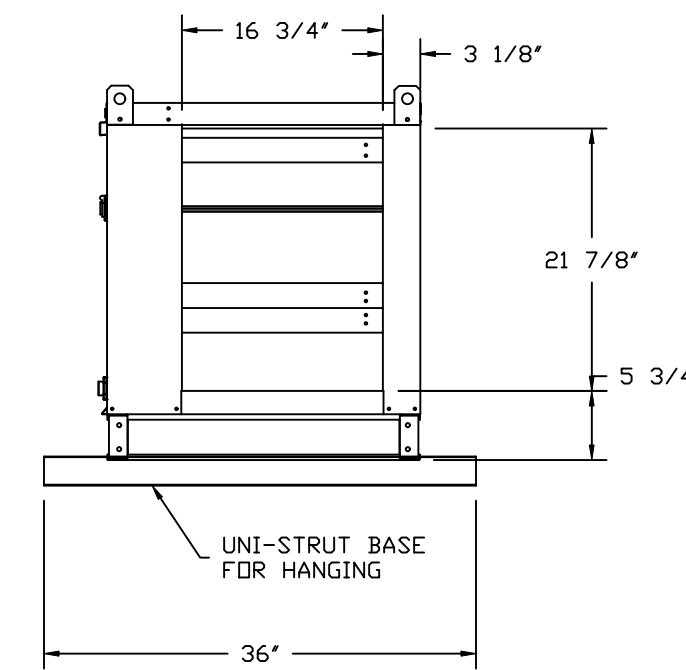
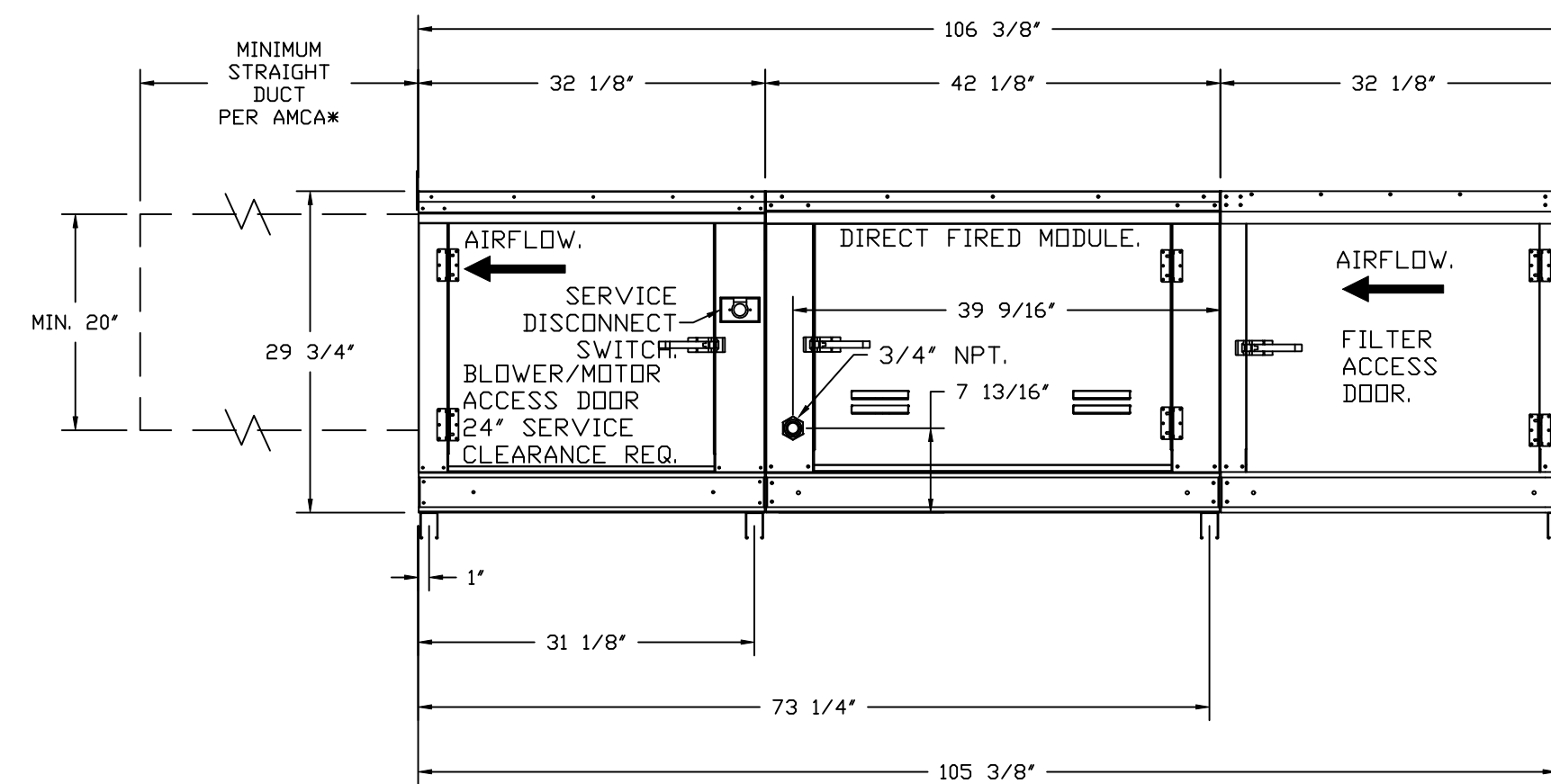
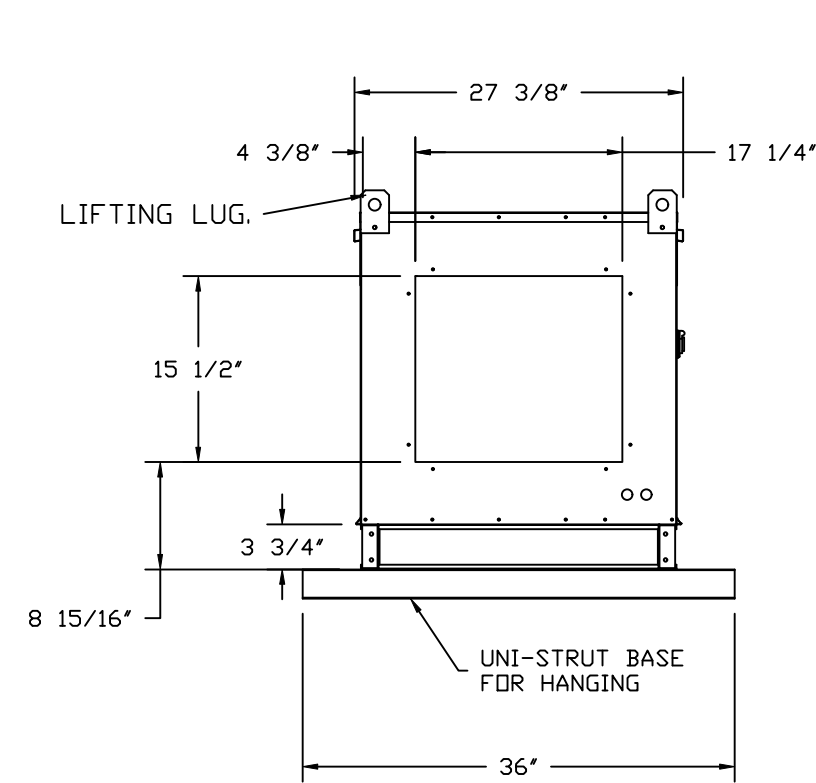
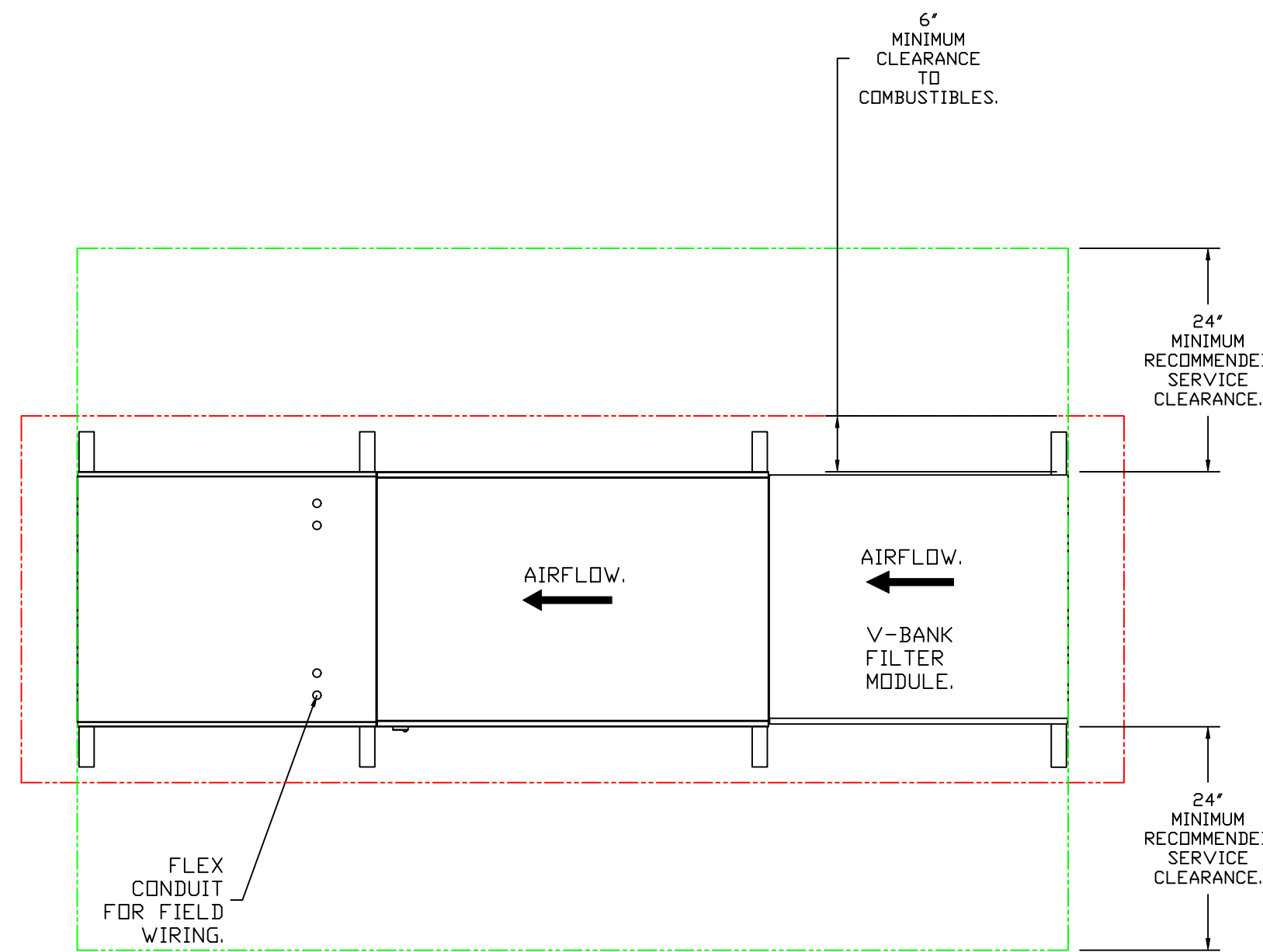
DIRECT FIRED PROFILE PLATE SPECIFICATIONS:

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

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

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

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



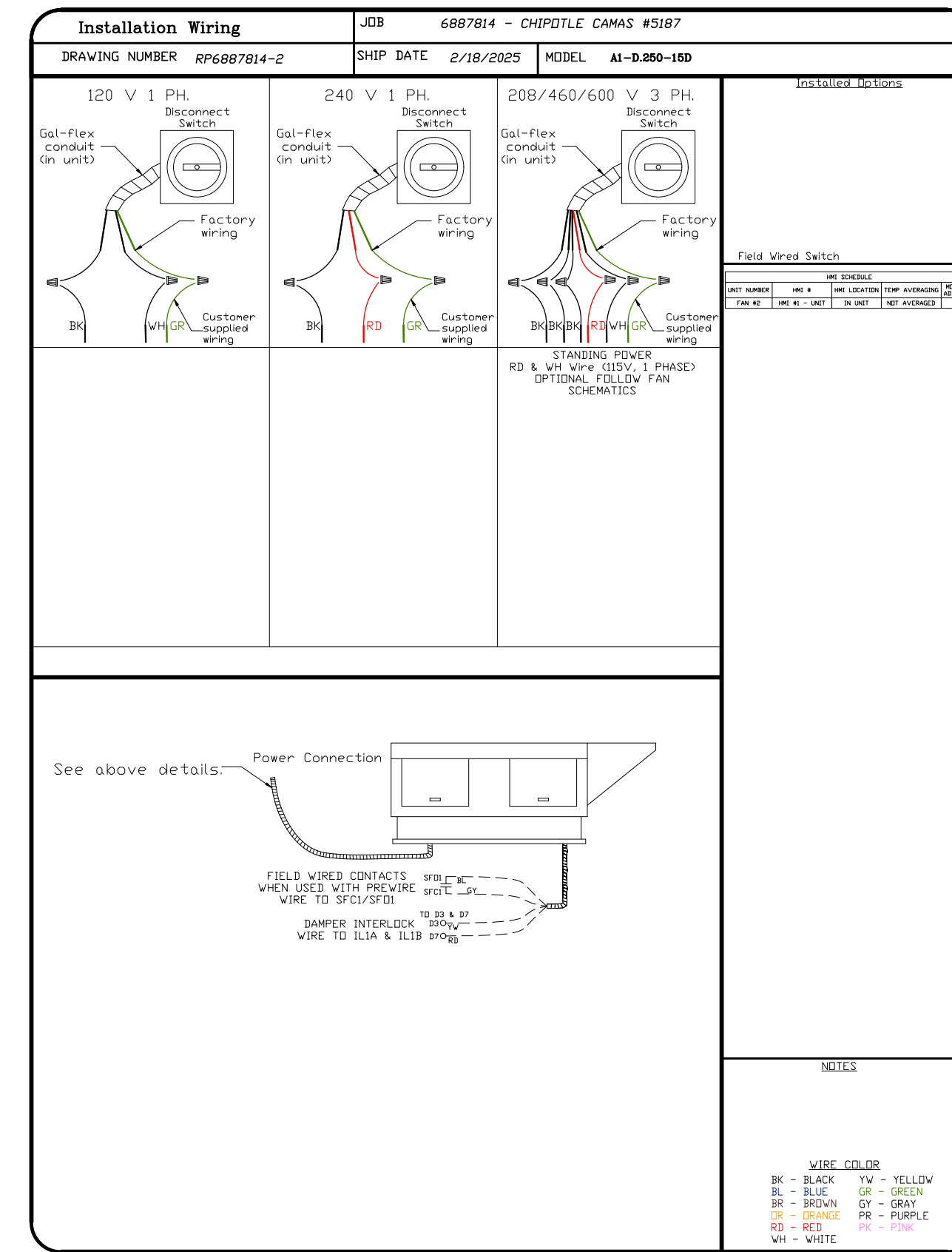
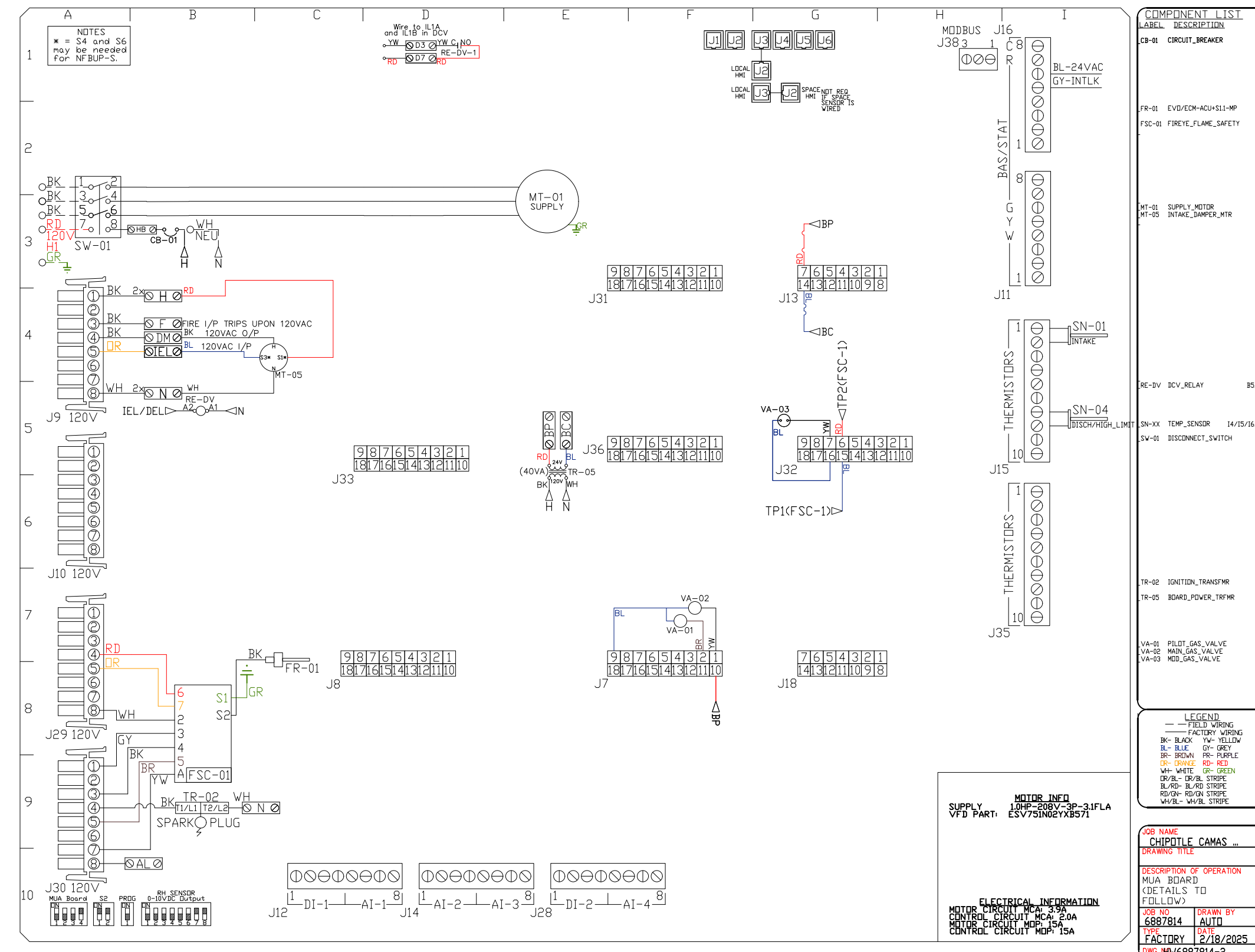
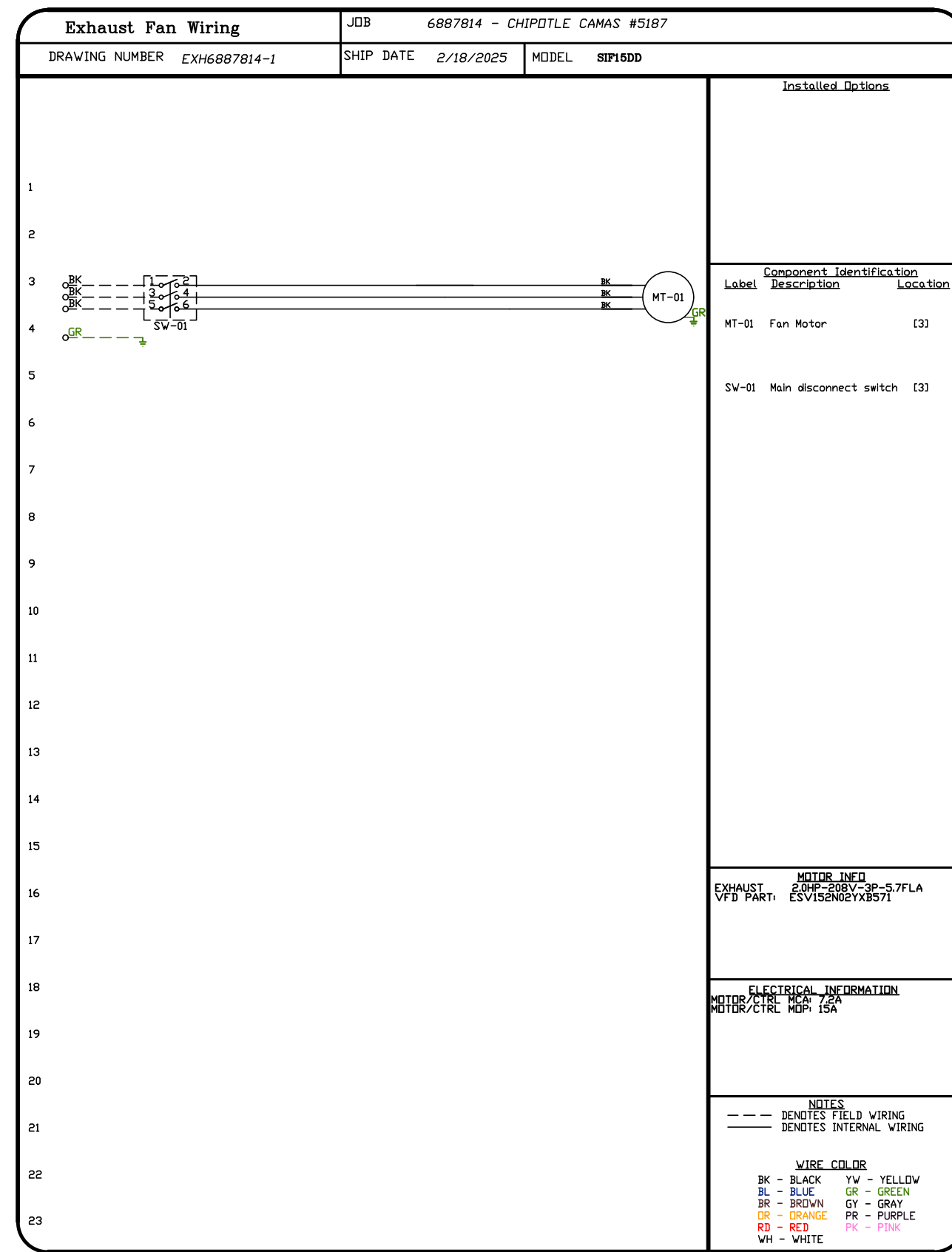
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 7



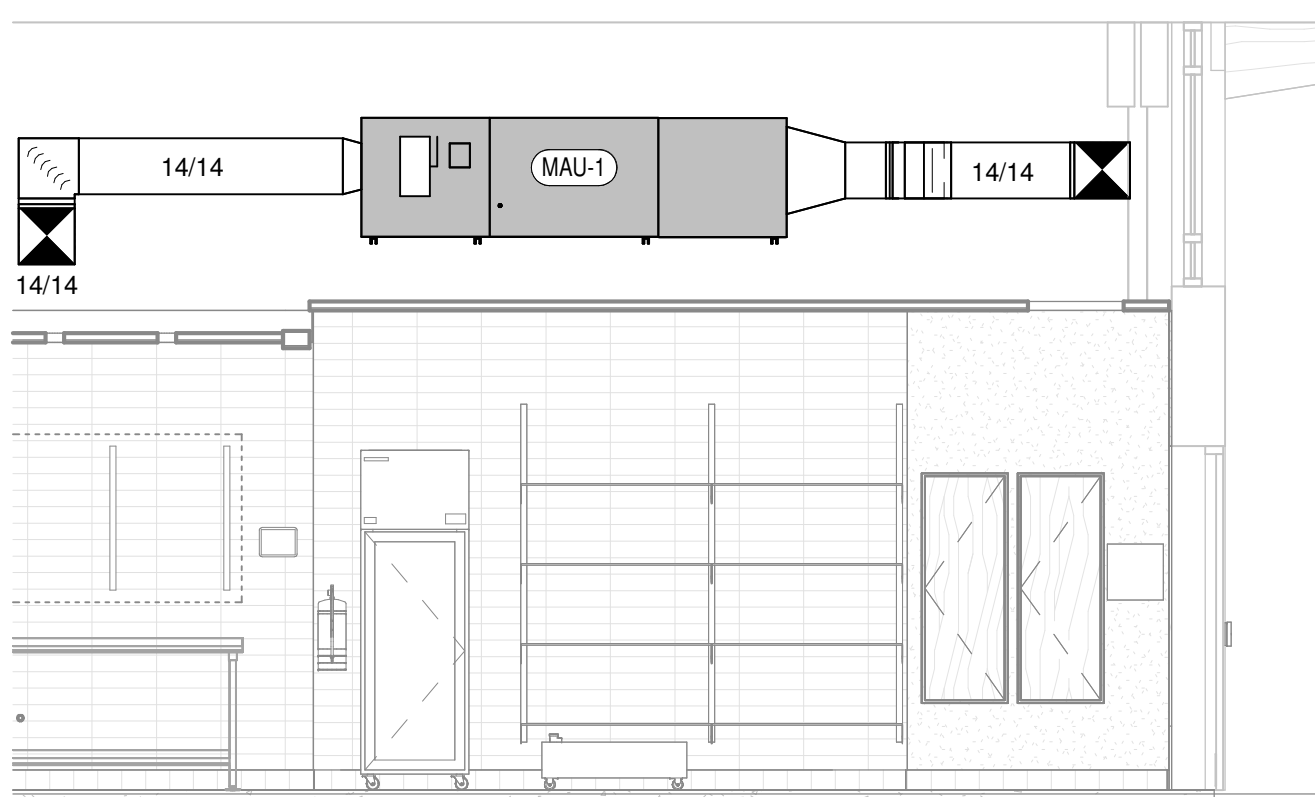
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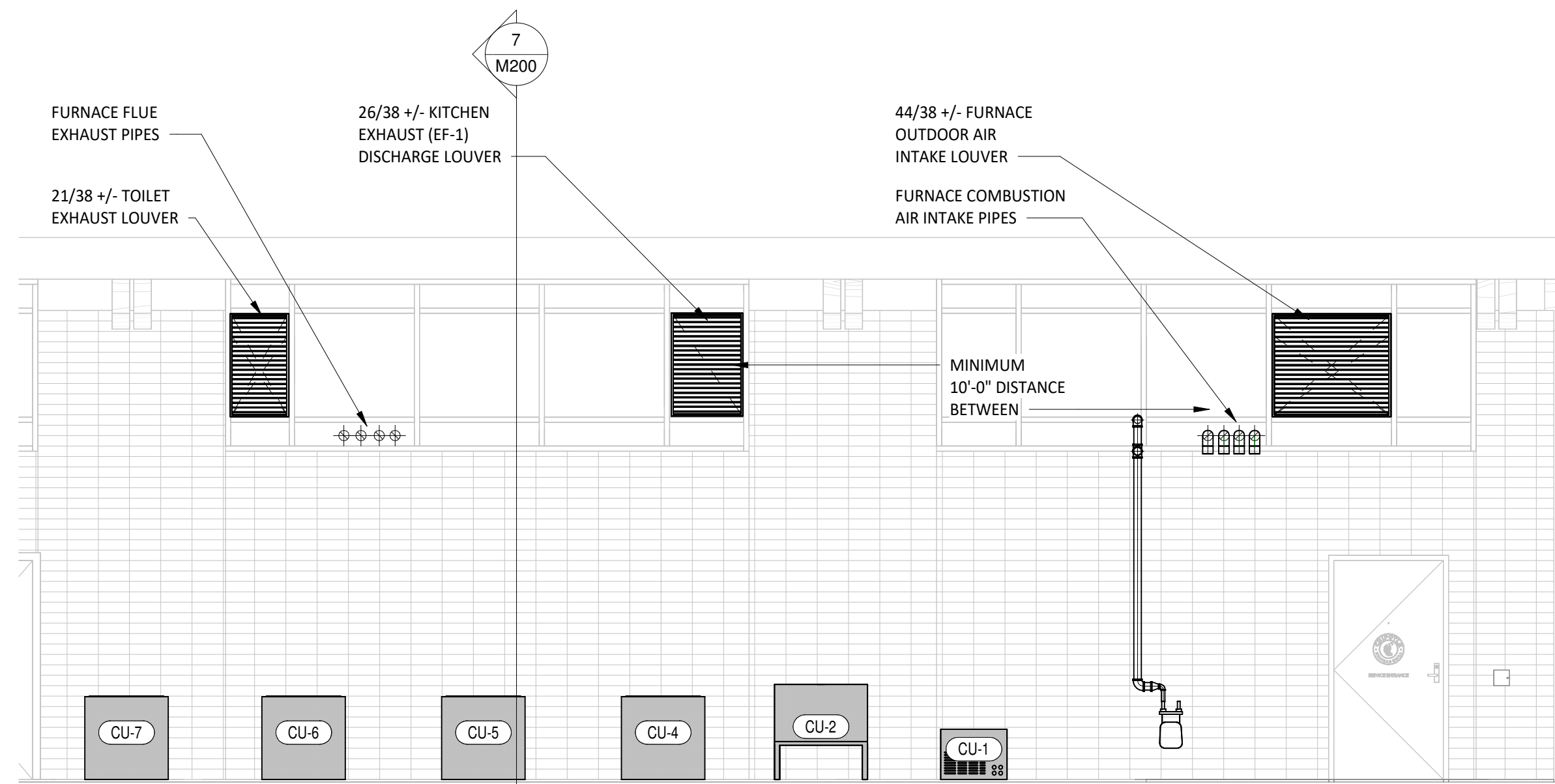
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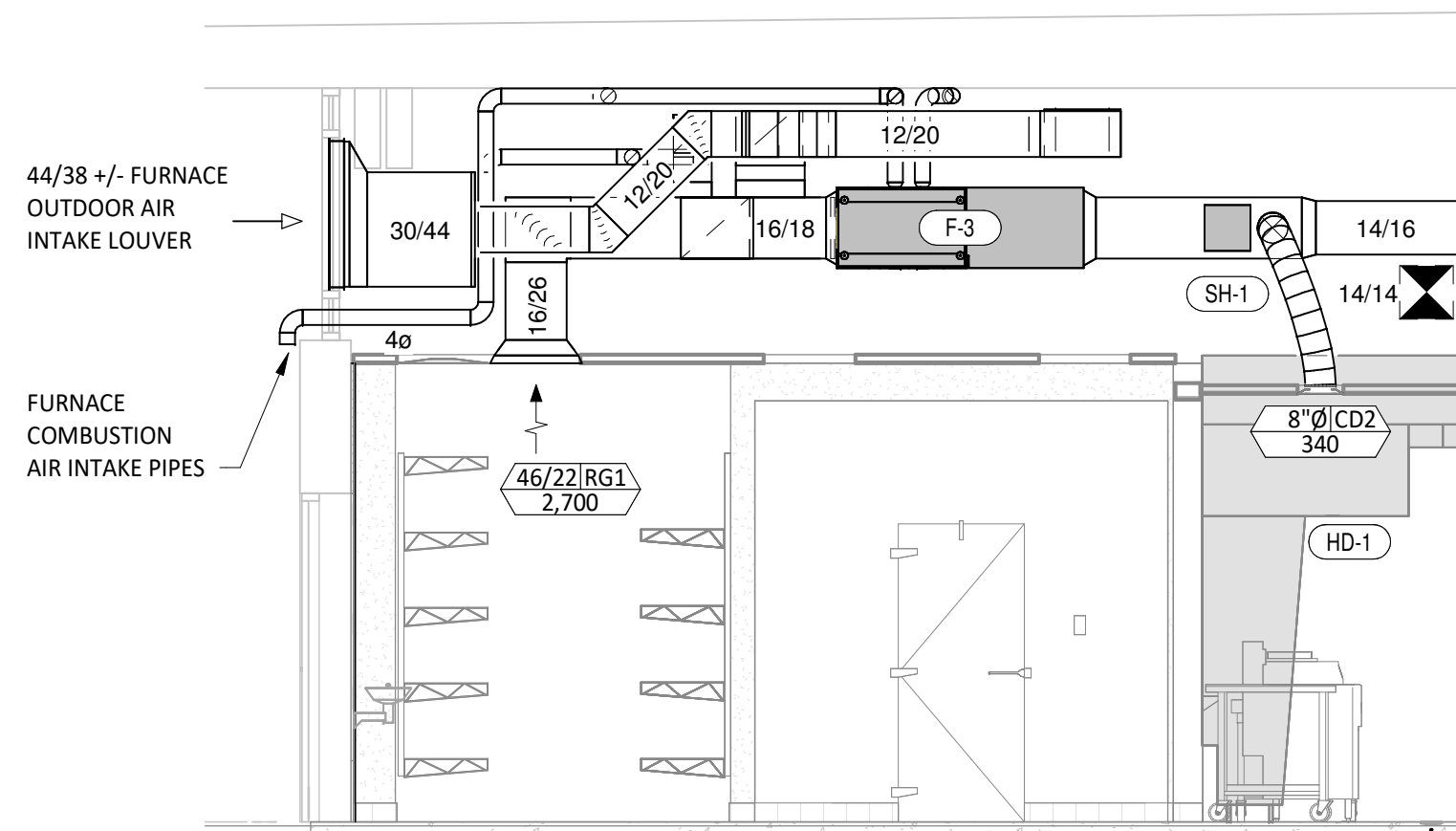
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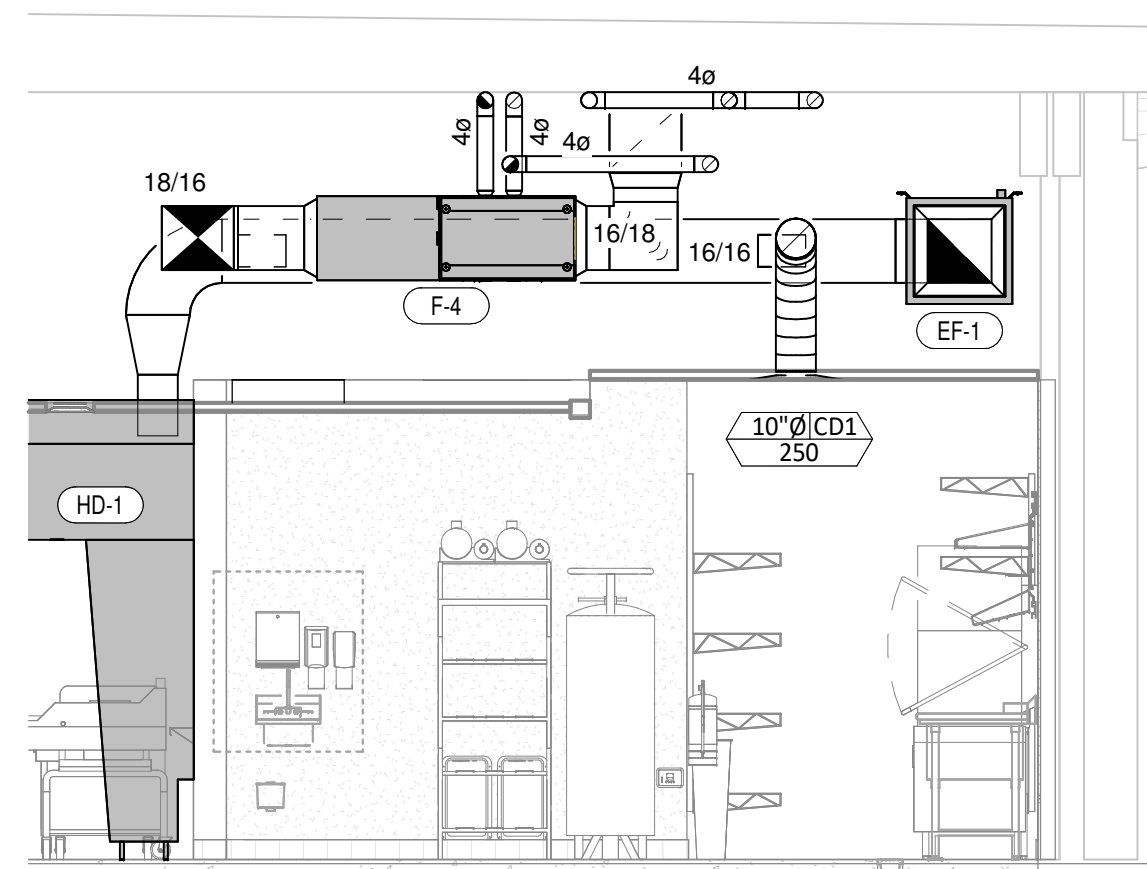
1 HVAC SECTION - MAU-1
1/4" = 1'-0"



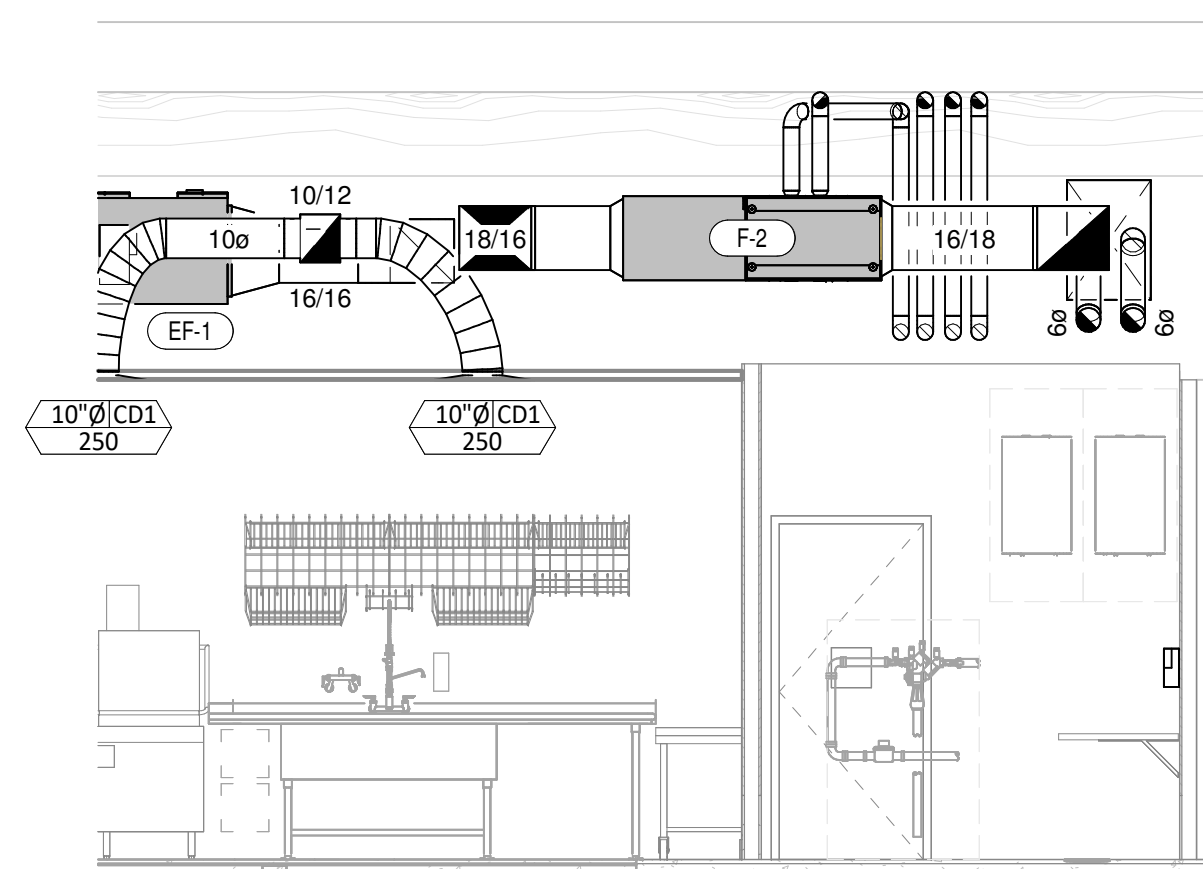
2 HVAC SECTION - LOUVERS AND OUTDOOR EQUIPMENT
1/4" = 1'-0"



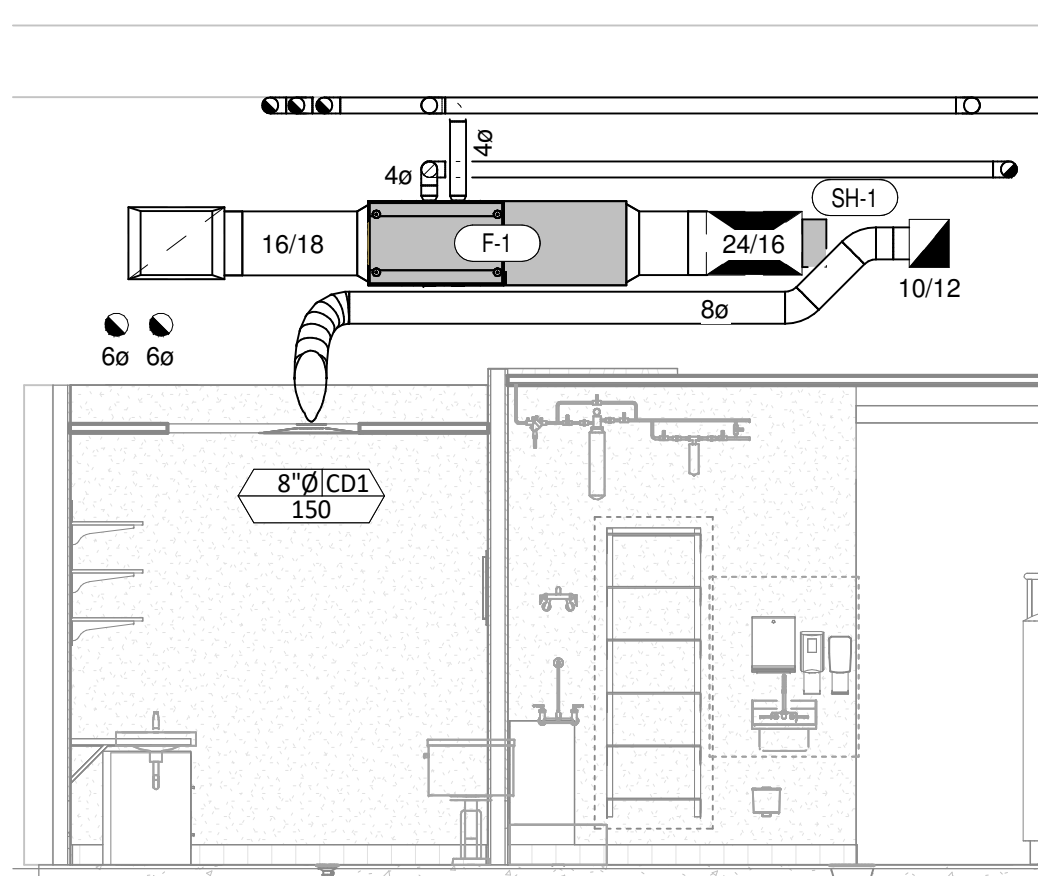
3 HVAC SECTION - FURNACE F-3
1/4" = 1'-0"



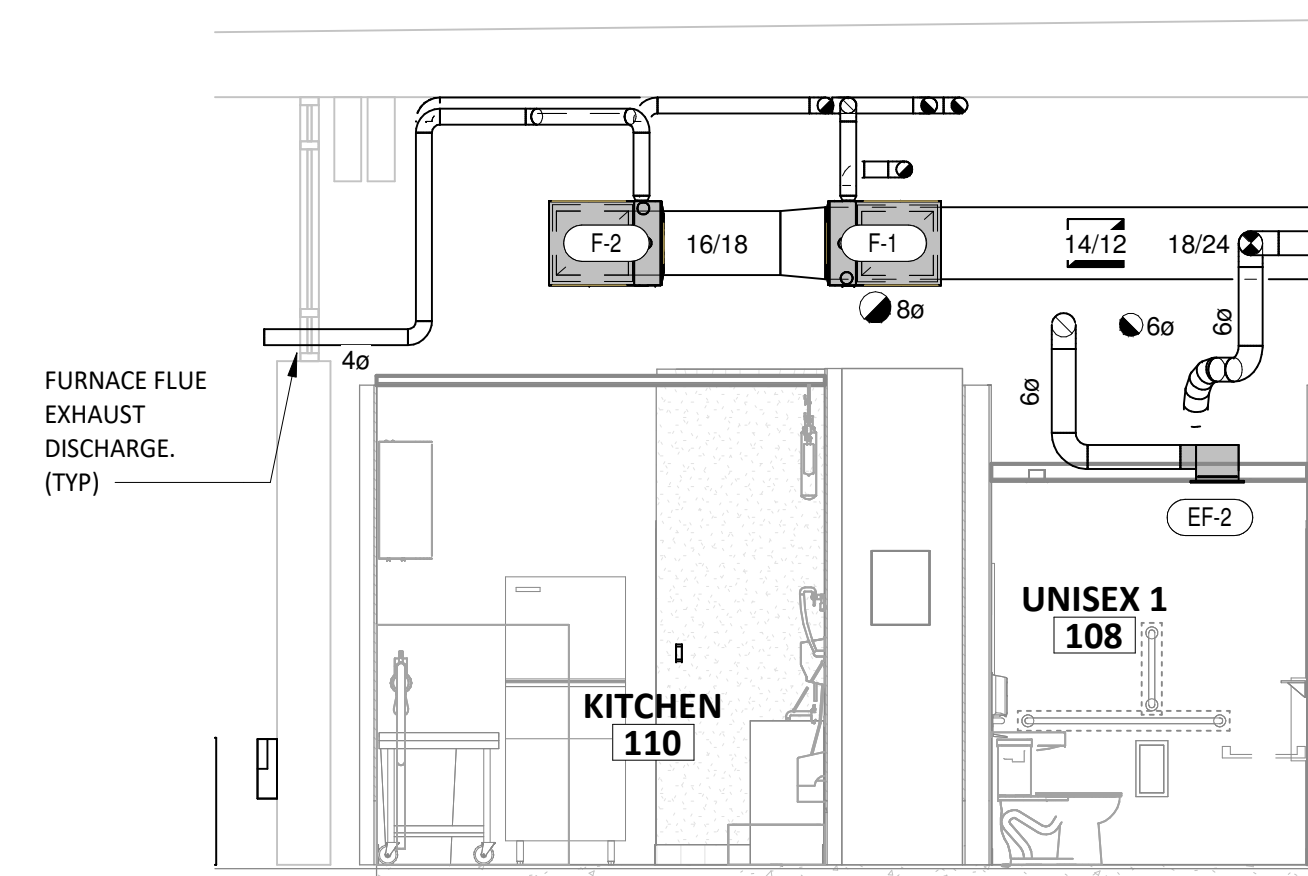
4 HVAC SECTION - FURNACE F-4
1/4" = 1'-0"



5 HVAC SECTION - FURNACE F-2
1/4" = 1'-0"



6 HVAC SECTION - FURNACE F-1
1/4" = 1'-0"



7 HVAC SECTION - FURNACES F-1 AND F-2
1/4" = 1'-0"



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CHIPOTLE MEXICAN GRILL, INC.
PO BOX 182566
COLUMBUS, OH 43218-2566
TELEPHONE: 614.318.2400
INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 45-5187
CAMAS
19530 SE BRADY RD, SUITE 100
CAMAS, WA 98607

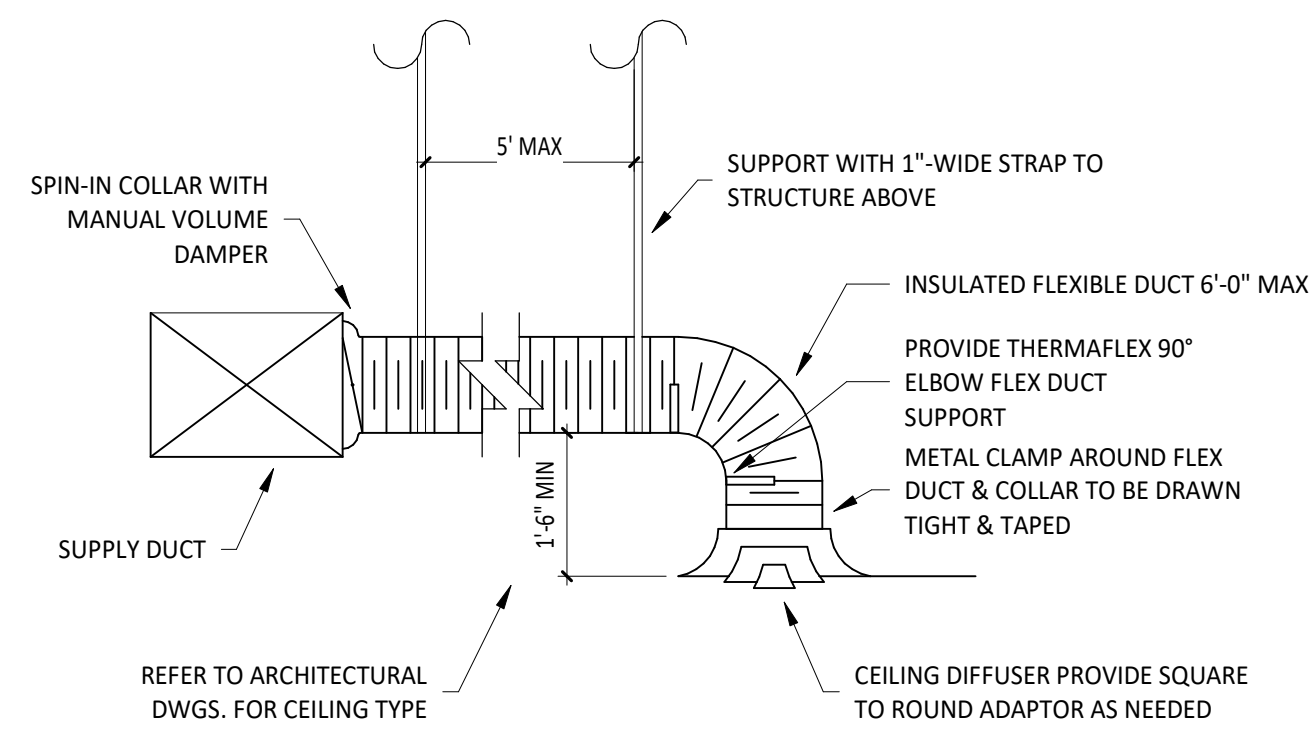
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12/09/2024	PERMIT SET
07/28/2025	CONSTRUCTION SET

Revisions:	

Drawn:	Checked:
FMS	PD

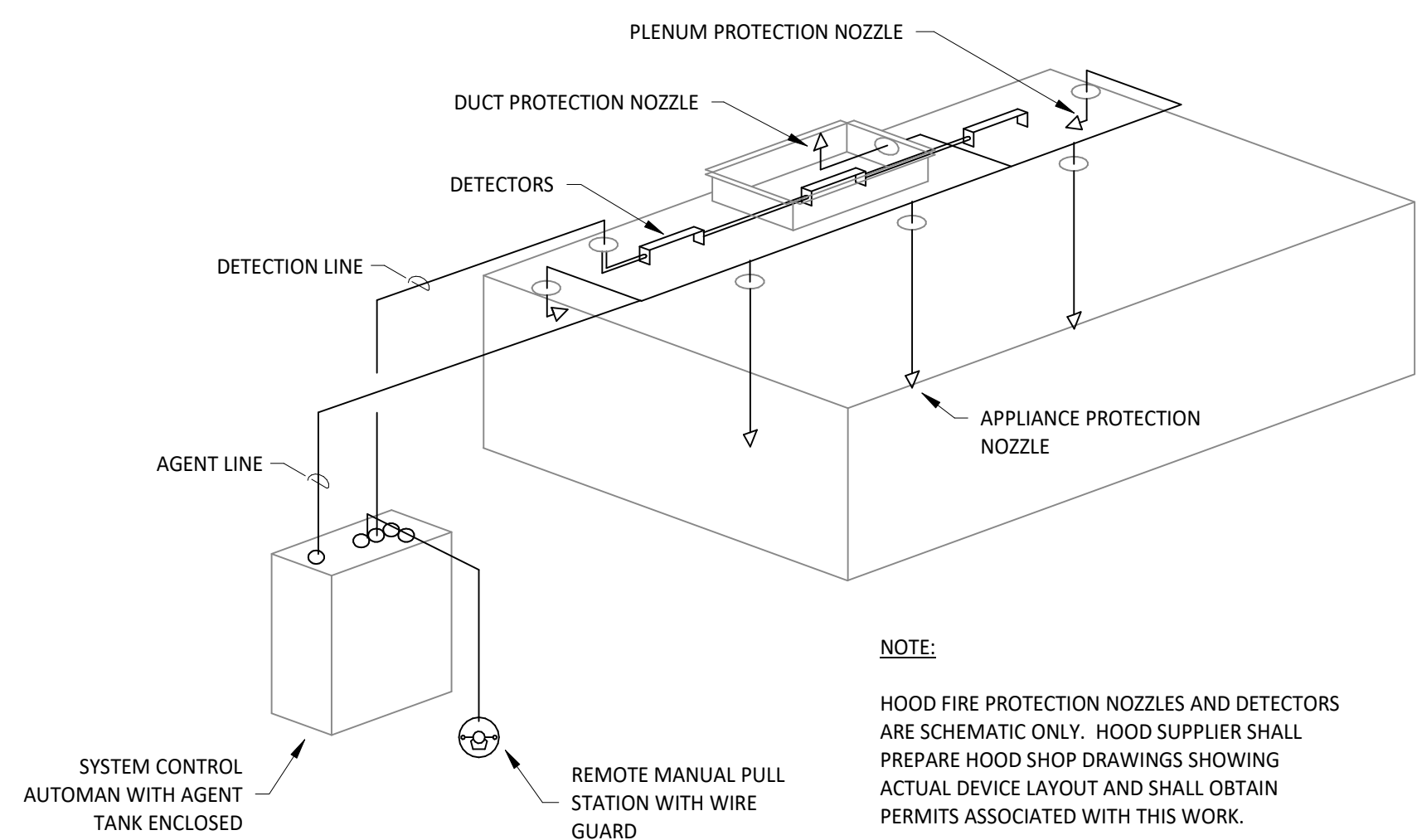
Project No.
230592

Contents:
HVAC SECTIONS



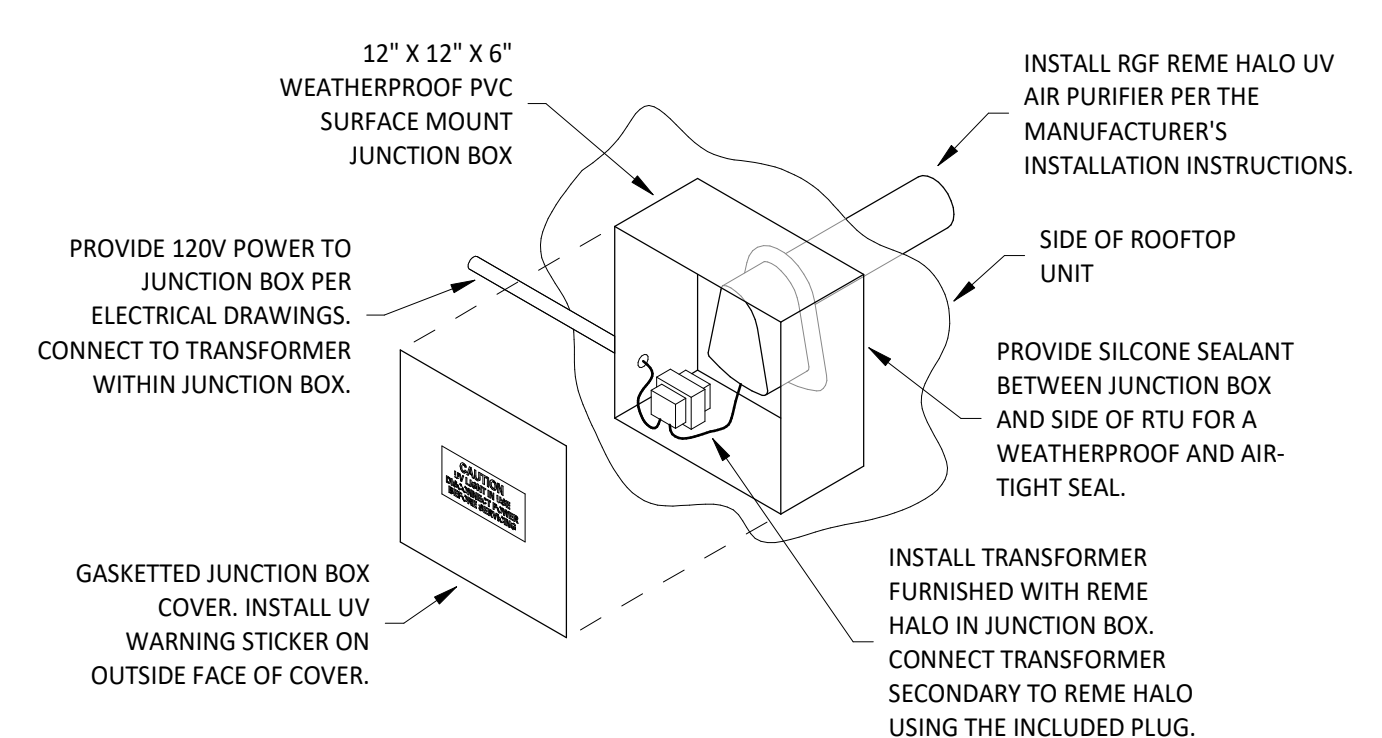
NOTE:
1. METHOD OF INSTALLATION FOR AIRTIGHT SEAL IS TYPICAL FOR ALL FLEX CONNECTIONS TO AIR DISTRIBUTION DEVICES.

1
M700
DIFFUSER CONNECTION
NOT TO SCALE



NOTE:
HOOD FIRE PROTECTION NOZZLES AND DETECTORS ARE SCHEMATIC ONLY. HOOD SUPPLIER SHALL PREPARE HOOD SHOP DRAWINGS SHOWING ACTUAL DEVICE LAYOUT AND SHALL OBTAIN PERMITS ASSOCIATED WITH THIS WORK.

4
M700
FIRE SUPPRESSION SYSTEM SCHEMATIC
NOT TO SCALE

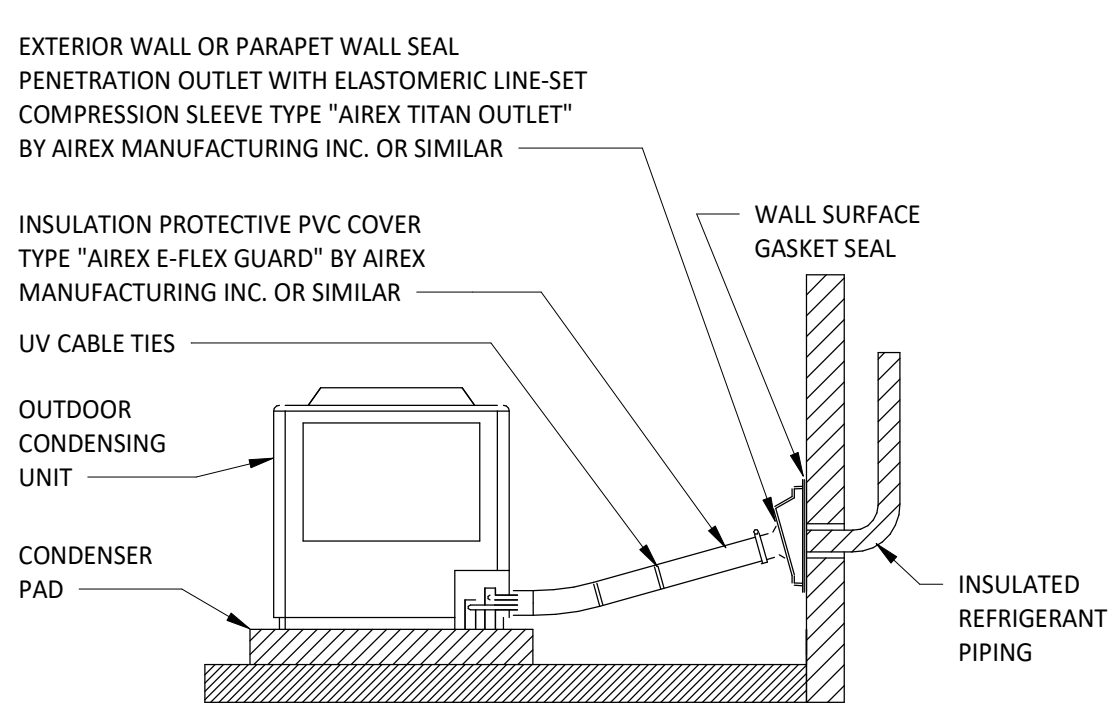


INSTALLATION LOCATION

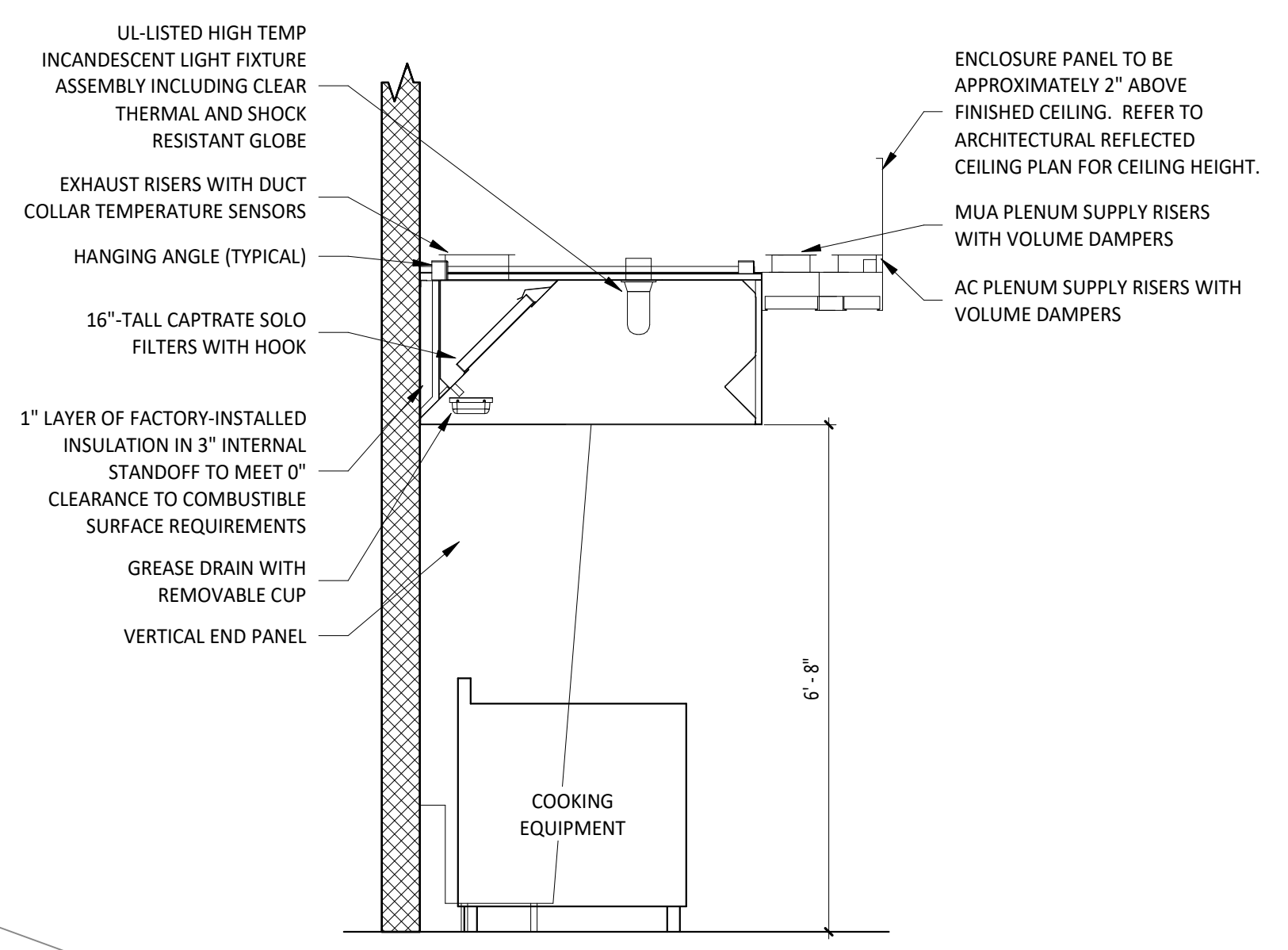
INSTALL AIR PURIFIER WITH JUNCTION BOX ON OUTSIDE FACE OF SUPPLY DUCT AND WITH UV LAMP TUBE EXTENDING INTO THE INTERIOR OF THE DUCTWORK. FIELD VERIFY EXACT LOCATION TO AVOID DAMAGING, TOUCHING, OR INTERFERING WITH ANY INTERIOR COMPONENTS. INSTALLATION LOCATION SHALL BE AS FOLLOWS:

- TRANE:** INSTALL INTO THE SUPPLY AIR STREAM.
- YORK:** INSTALL INTO THE SUPPLY AIR STREAM.

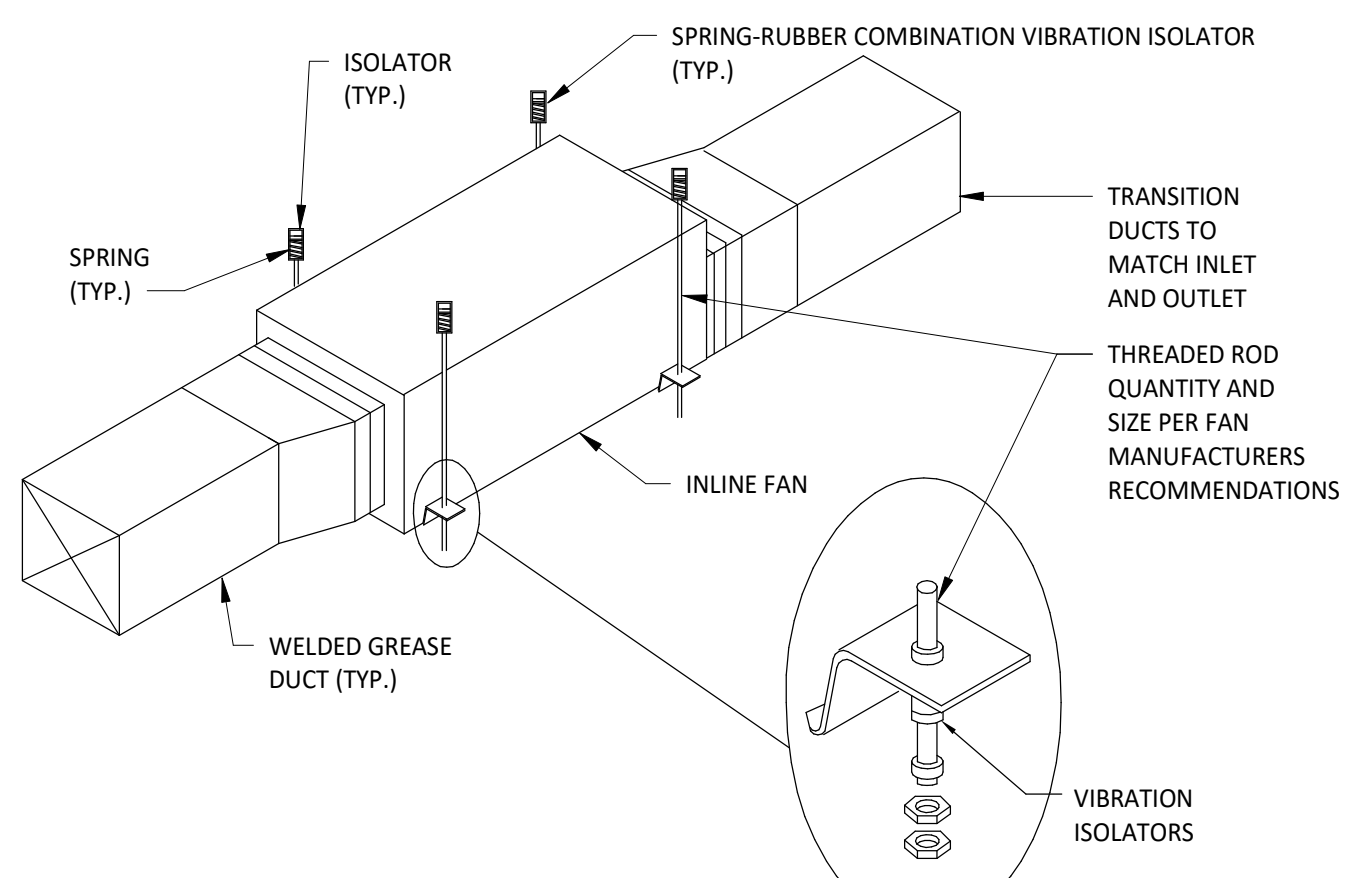
6
M700
UV AIR PURIFIER INSTALLATION
NOT TO SCALE



11
M700
CONDENSING UNIT ON GRADE DETAIL
NOT TO SCALE

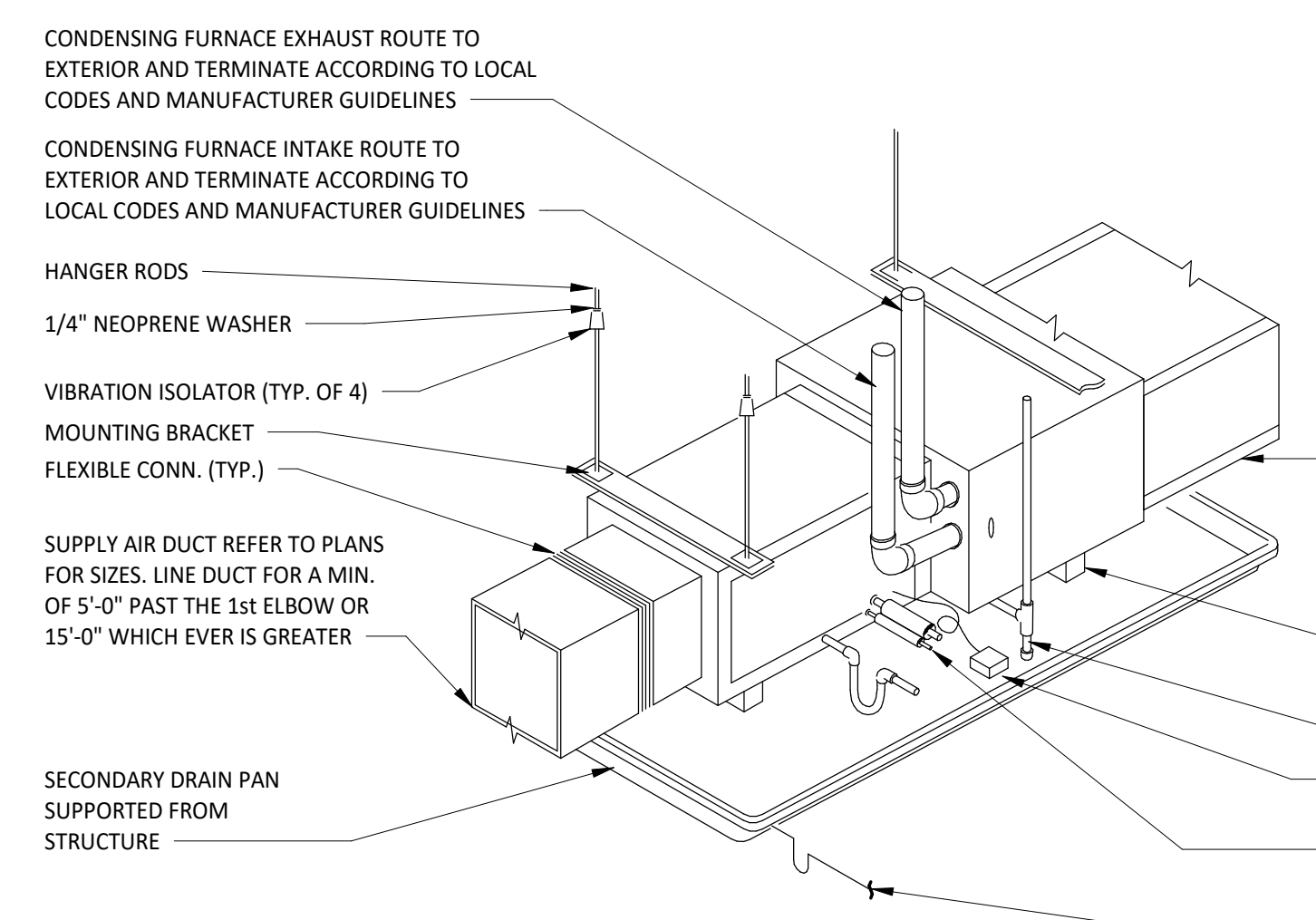


2
M700
HOOD SECTION VIEW
NOT TO SCALE



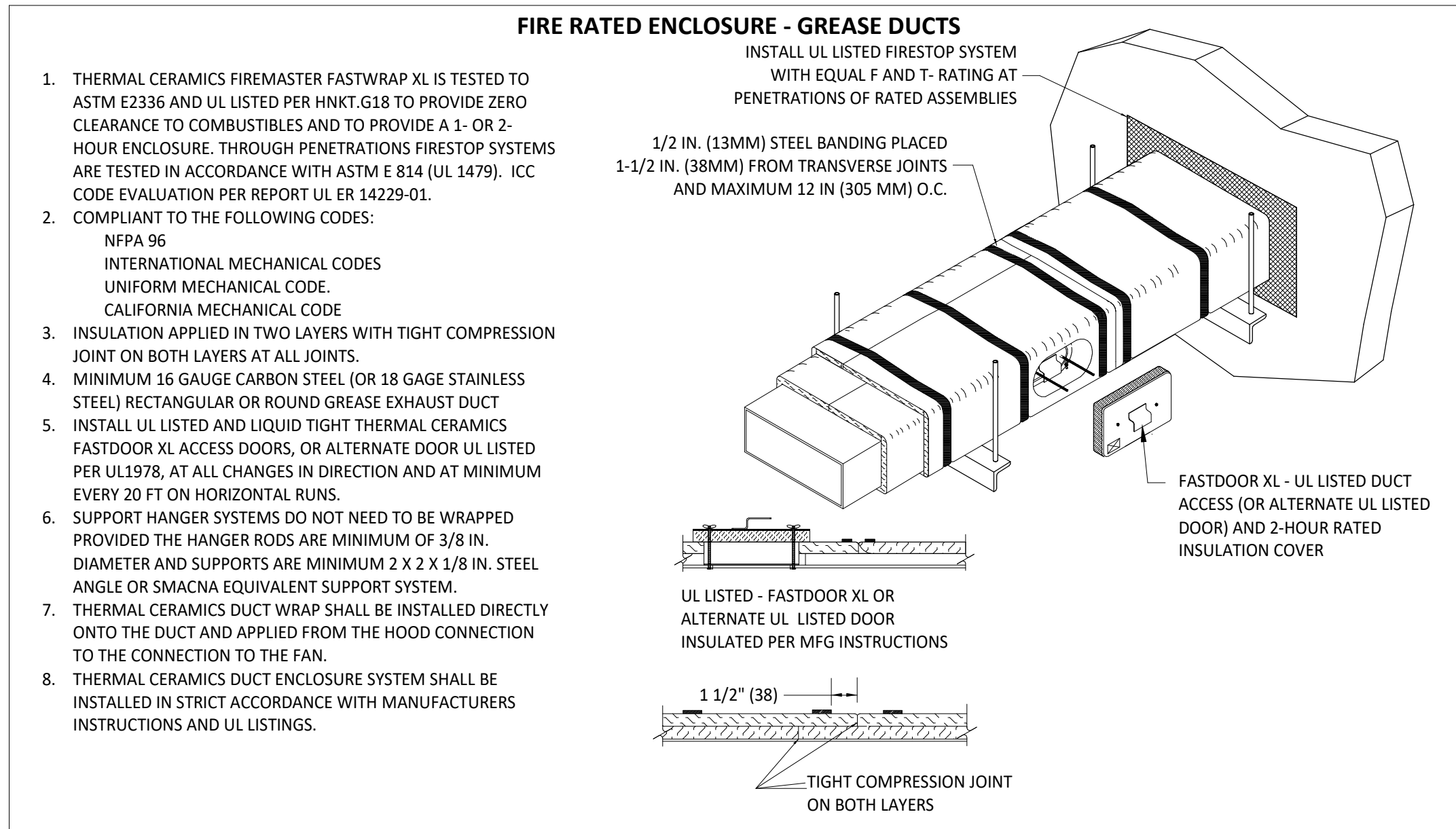
DETAIL NOTES:
1. COORDINATE SUPPORTS WITH ARCHITECT AND STRUCTURAL ENGINEER.
2. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS AND OPERATING WEIGHTS.
3. PROVIDE SIZE OF THREADED ROD, QUANTITY, AND VIBRATION ISOLATION AS RECOMMENDED BY EQUIPMENT MANUFACTURER.
4. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES TO COMBUSTIBLES.

5
M700
INLINE FAN MOUNTING DETAIL
NOT TO SCALE

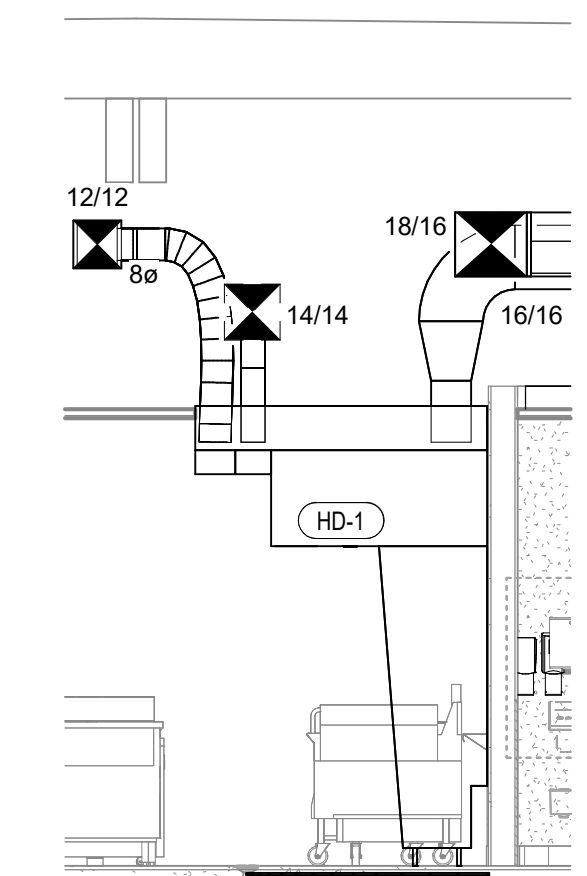


DETAIL NOTES:
1. SLOPE CONDENSATE LINE MIN. 1/8\"/>

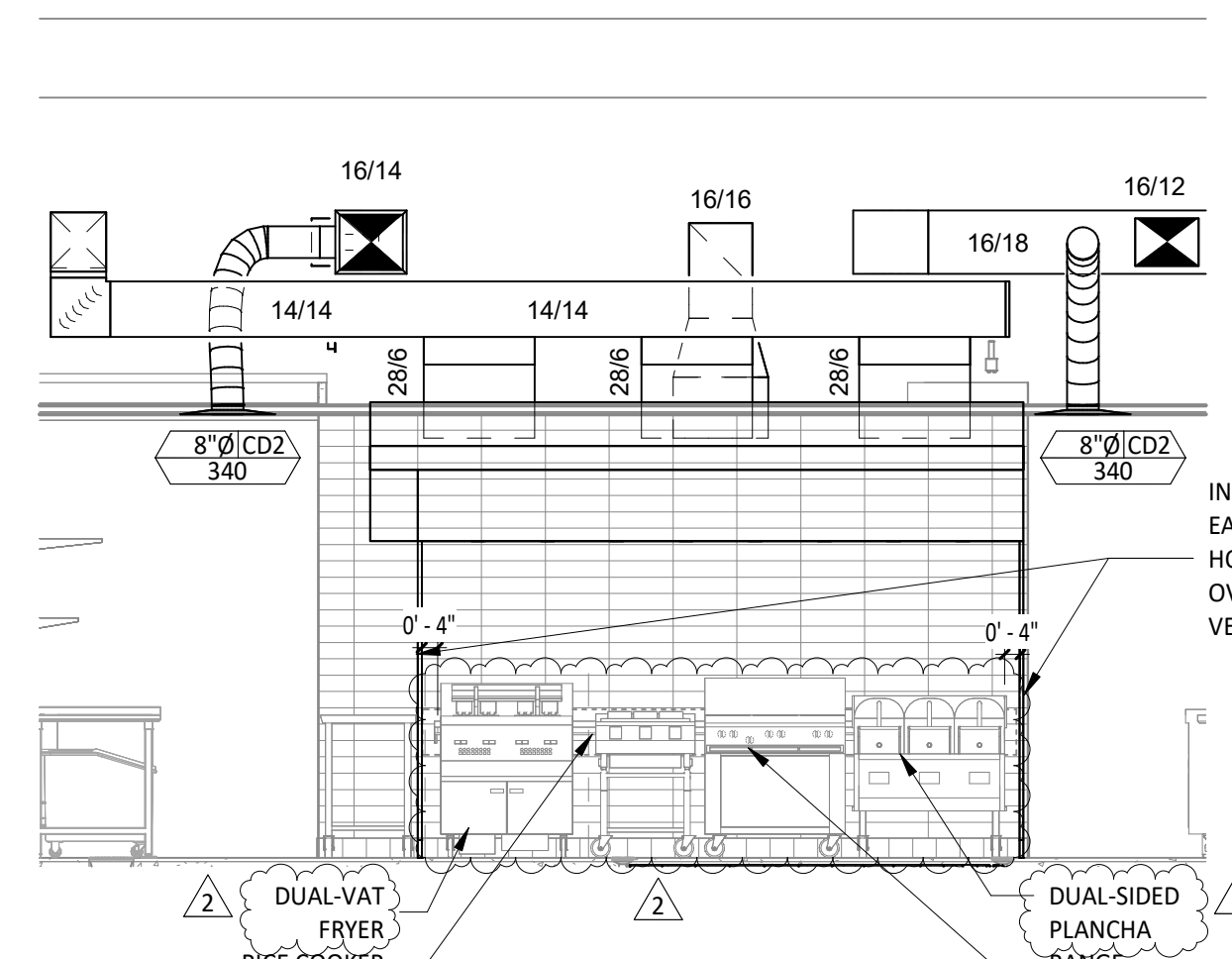
10
M700
FURNACE MOUNTING DETAIL
NOT TO SCALE



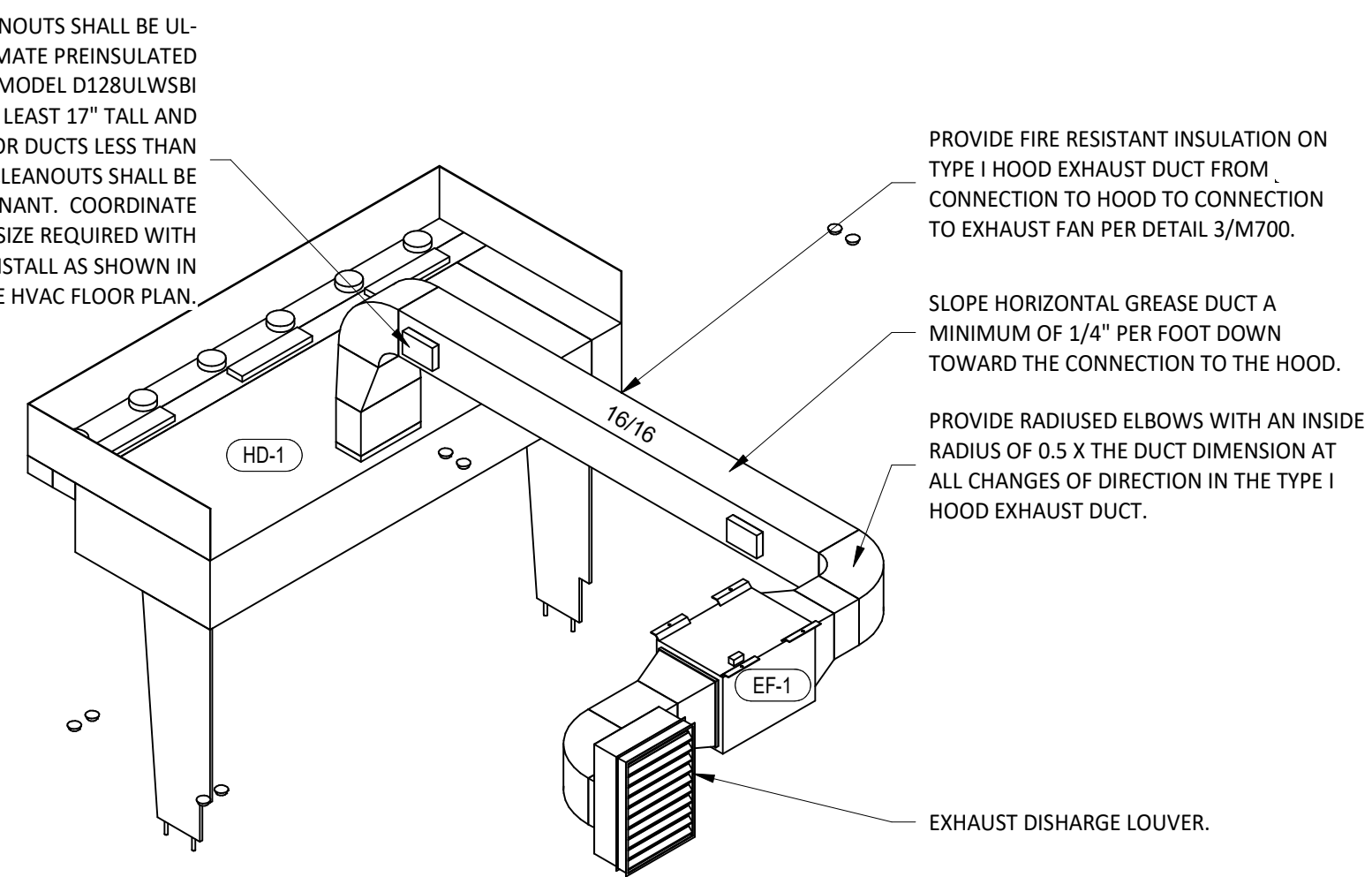
3
M700
FIREMASTER DUCT WRAP - UL HNKT-G18
NOT TO SCALE



7
M700
DUCT SECTION AT HOOD
1/4\"/>



8
M700
HOOD ELEVATION
1/4\"/>



9
M700
HOOD EXHAUST ISOMETRIC
NOT TO SCALE



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07/28/2025	CONSTRUCTION SET

Revisions:

2	07/28/2025	HEEP UPDATES
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Drawn: FMS
Checked: PD

Project No:
230592

Contents:
HVAC DETAILS