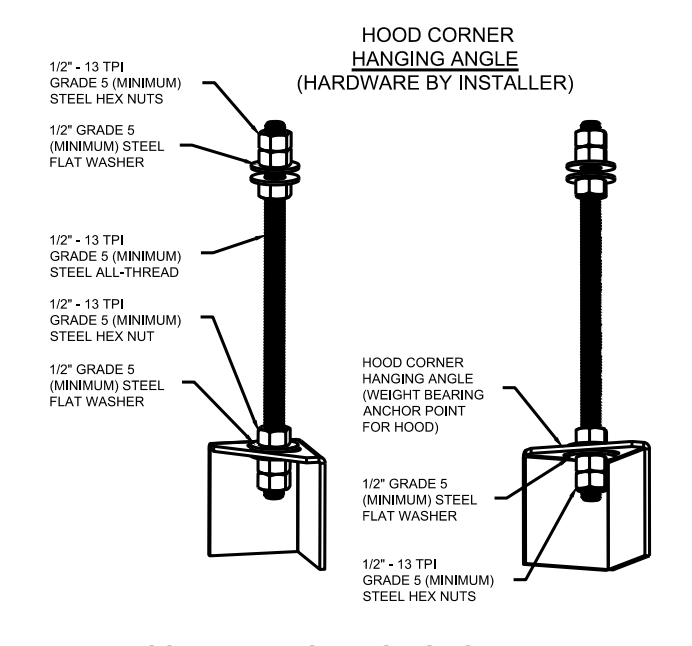


3-8-2022

HOOD INFORMATION - Job#4137855

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	APPLIANCE DUTY	DESIGN CFM/R	TOTAL EXH. CFM	EXHAUST PLENUM RISER(S)					TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG.				
								WIDTH	LENG.	HEIGHT	DIA.	CFM			VEL.	S.P.	END TO END	ROW	
1	HD1-Grill	3650 BD-2	6' 0"	600 Deg.	Heavy	187	1120	10"	10"	4"			1120	1613	-0.754"	0	430 SS Where Exposed	ALONE	ALONE
2	HD1-PSP	246 MISC ACPSP-ONLY	6' 0"	300 Deg.	N/A	0	0									1000	430 SS Where Exposed	ALONE	ALONE
3	HD2-Oven	4412 PS-Ovn	1' 9.25"	300 Deg.	Light	200	700	8"	8"	4"			700	1590	-0.376"	0	430 SS 100%	ALONE	ALONE
4	HD3-Fry	3650 BD-2	4' 2"	600 Deg.	Heavy	189	833	8"	8"	4"			833	1631	-0.616"	0	430 SS Where Exposed	ALONE	ALONE
5	HD3-PSP	246 MISC ACPSP-ONLY	4' 2"	300 Deg.	N/A	0	0									650	430 SS Where Exposed	ALONE	ALONE

FOR QUESTIONS, CALL THE CAPTIVE-AIRE (TRI-STATE) OFFICE
 1329 E. KEMPER RD. SUITE 4210
 PHONE: (513) 860-5555
 joe.hertenstein@captiveaire.com



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.

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH UL 710 AND NFPA 96 AND ARE RECOGNIZED BY ONE OR MORE OF THE FOLLOWING:

ETL SANITATION LISTED
 ETL LISTED FILE# 3054804-001

HOOD SYSTEM IS FABRICATED & DESIGNED PER UL-710 STANDARDS

HOOD INFORMATION

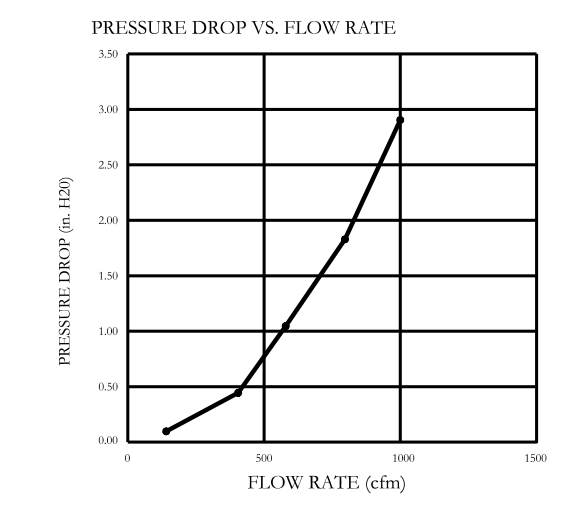
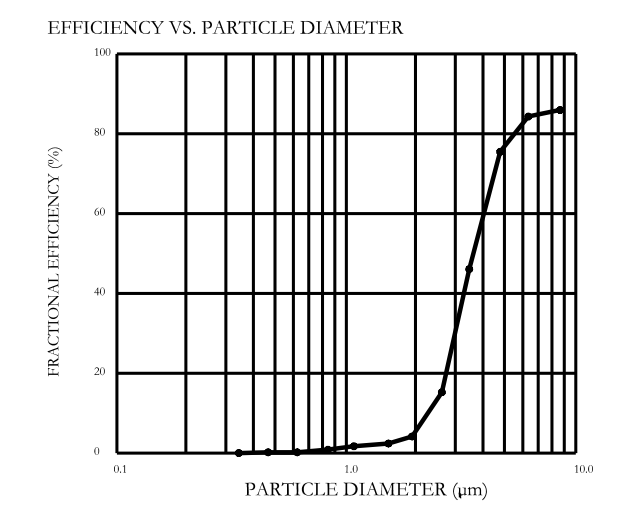
HOOD NO.	TAG	TYPE	QTY.	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY.	TYPE	WIRE GUARD	LOCATION	SIZE	UTILITY CABINET(S)			FIRE SYSTEM PIPING	HOOD HANGING WGT	
												FIRE SYSTEM	SIZE	ELECTRICAL			
1	HD1-Grill	Captrate Solo Filter	4	16"	16"	85% See Filter Spec.	3	L55 Series E26	NO						YES	250 LBS	
2	HD1-PSP						0								NO	106 LBS	
3	HD2-Oven	SS Baffle w/ Handles	2	10"	20"	30%	0								YES	248 LBS	
4	HD3-Fry	Captrate Solo Filter	3	16"	16"	85% See Filter Spec.	2	L55 Series E26	NO	Wall Mnt	12"x48"x24"	Ansul R102	3.0/3.0	SC-E013022MA	2 Light 2 Fan	YES	225 LBS
5	HD3-PSP						0								NO	68 LBS	

HOOD OPTIONS

HOOD NO.	TAG	OPTION
1	HD1-Grill	FIELD WRAPPER 14.50" High Front, Left, Right BACKSPLASH 104.00" High X 108.00" Long 430 SS Vertical RIGHT QUARTER END PANEL 26" Top Width, 0" Bottom Width, 26" High 430 SS LEFT QUARTER END PANEL 26" Top Width, 0" Bottom Width, 26" High 430 SS SENSOR-CV
3	HD2-Oven	SENSOR-CV
4	HD3-Fry	FIELD WRAPPER 14.50" High Front, Left, Right BACKSPLASH 104.00" High X 78.00" Long 430 SS Vertical BACKSPLASH 48.00" High X 96.00" Long 430 SS Horizontal BACKSPLASH - INSIDE CORNER 96.00" High X 2.00" Leg Length 430 SS Vertical LEFT QUARTER END PANEL 26" Top Width, 0" Bottom Width, 26" High 430 SS RIGHT VERTICAL END PANEL 26" Top Width, 26" Bottom Width, 61" High Insulated 430 SS SENSOR-CV
6	Misc Items	OPTIONS ONLY: FIELD WRAPPER 40.00" High x 17.00" Long Back 430 SS OPTIONS ONLY: FIELD WRAPPER 40.00" High x 17.00" Long Right 430 SS OPTIONS ONLY: FIELD WRAPPER 40.00" High x 17.00" Long Left 430 SS OPTIONS ONLY: WRAPPER CHANNEL - 14.00" Long OPTIONS ONLY: WRAPPER CHANNEL - 14.00" Long OPTIONS ONLY: WRAPPER CHANNEL - 14.00" Long OPTIONS ONLY: WRAPPER CHANNEL - 14.00" Long

SPECIFICATION: CAPTRATE GREASE-STOP SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY. FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S). UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED. GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE. THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05.



CAPTIVATE FILTERS ARE BUILT IN COMPLIANCE WITH:
 NFPA 96B
 NSF STANDARD #2
 UL STANDARD #1046
 INT. MECH. CODE (IMC)
 ILC-9649



GENERAL WIRING COMPONENTS ONLY (MUST READ ALL DETAILED DIRECTIONS ON THE CAPTIVE-AIRE ELECTRICAL DWG SHEET PROVIDED)

PERFORATED SUPPLY PLENUM(S)

HOOD NO.	TAG	POS.	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)			
							WIDTH	LENG.	DIA.	
2	HD1-PSP	Front	72"	10"	6"	AC	8"	24"	465	0.123"
		Back	72"	14"	6"	MUA	10"	24"	500	0.138"
5	HD3-PSP	Front	50"	10"	6"	AC	8"	16"	250	0.071"
		Back	50"	14"	6"	MUA	10"	24"	650	0.213"

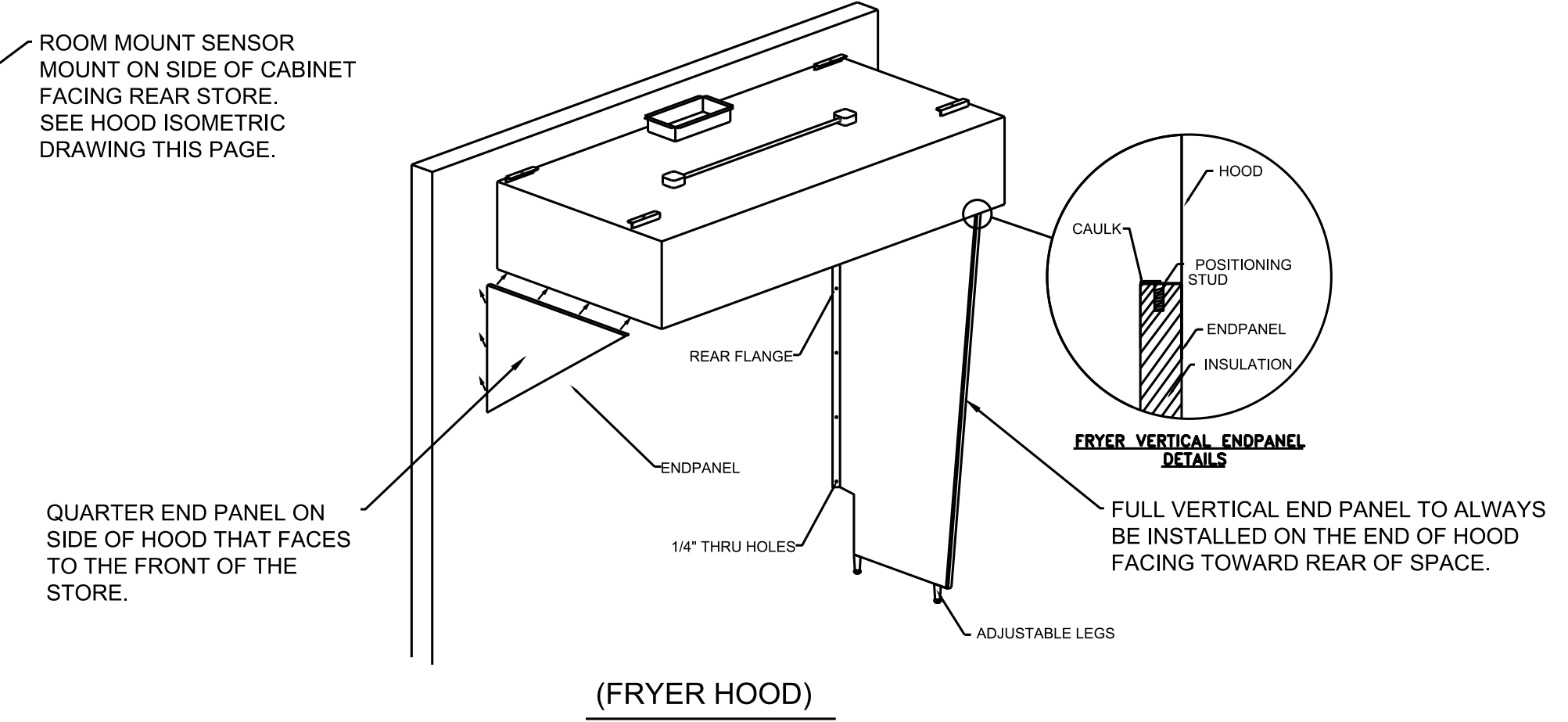
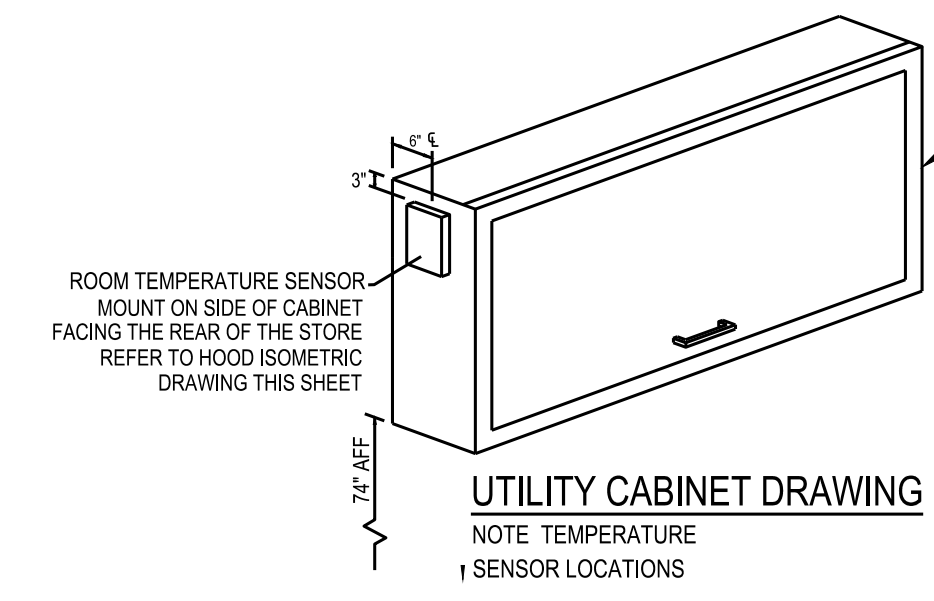
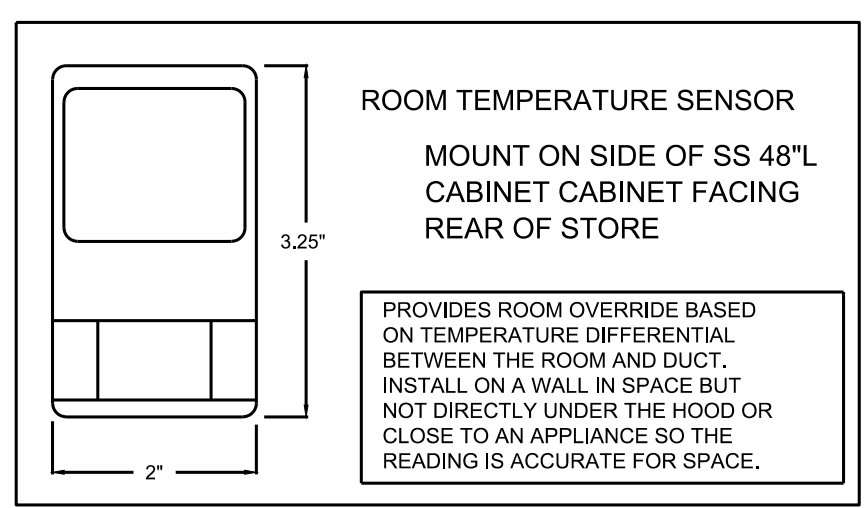
Fire System Information - Job#3592923

FIRE SYSTEM NO.	Tag	TYPE	SIZE	FLOW POINTS	INSTALLATION		
					SYSTEM	LOCATION ON HOOD	
1	FS-1	Ansul R102	3.0/3.0	6	2 (TWO) AT EACH HOOD	Wall Utility Cabinet Left	N/A

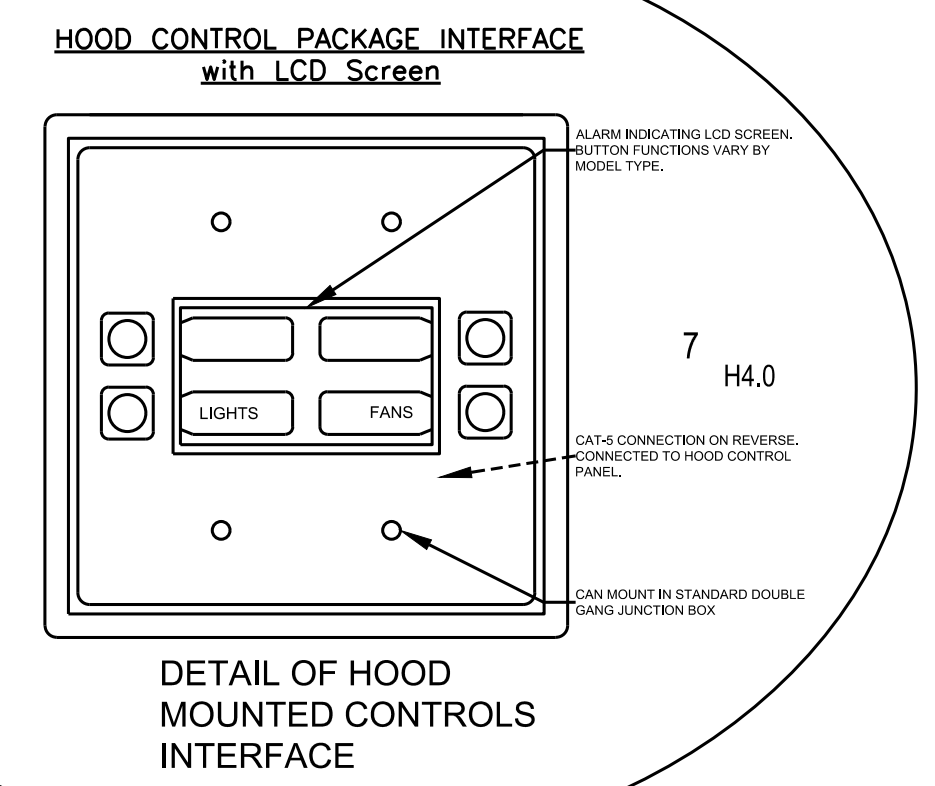
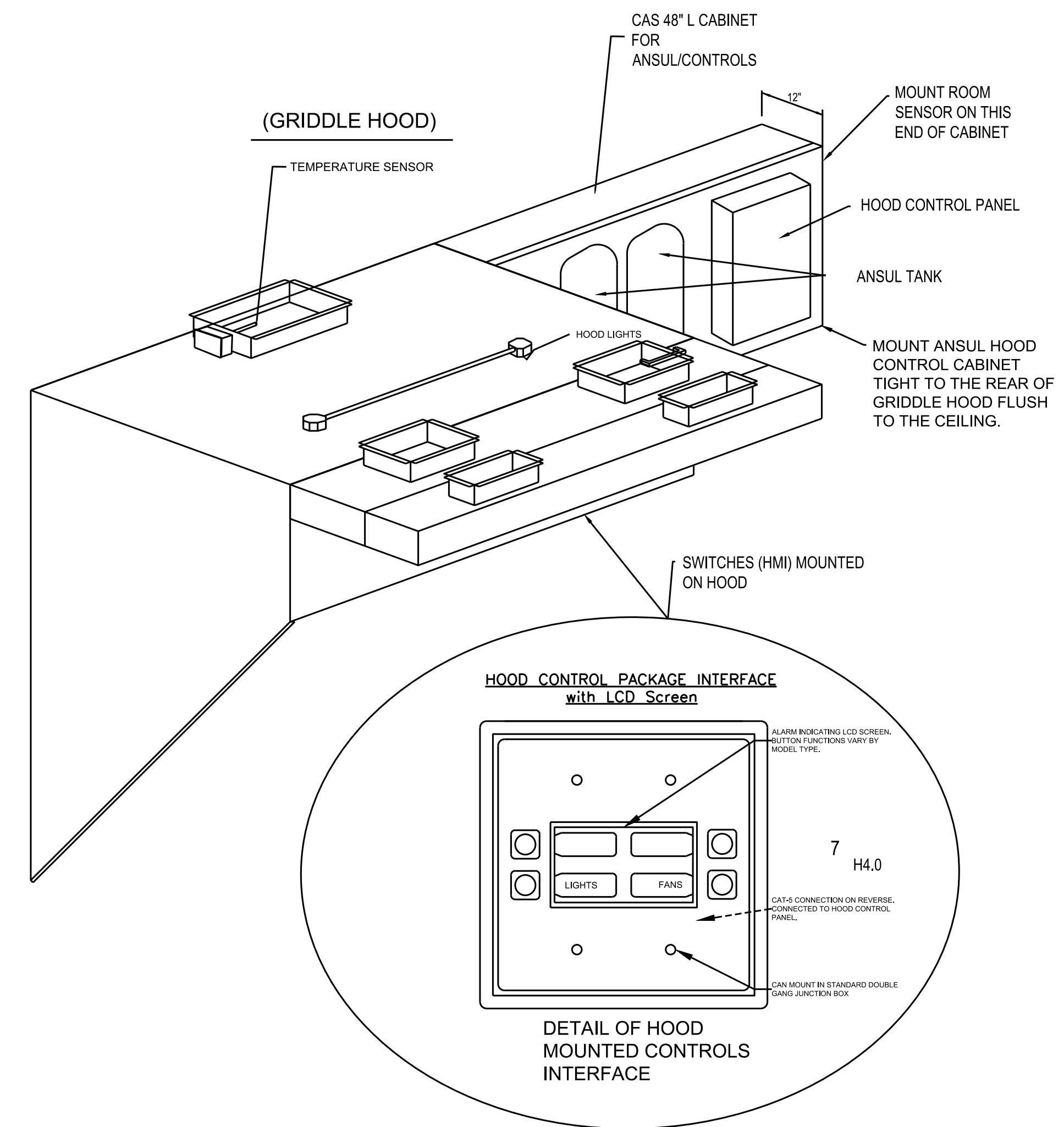
GAS VALVE(S)

FIRE SYSTEM NO.	TAG	TYPE	SIZE	SUPPLIED BY
1	FS-1	Mechanical	1.250	CaptiveAire Systems

LOCATED IN 48"L X24"H 12"T SS CABINET MOUNTED NEXT TO GRILL HOOD

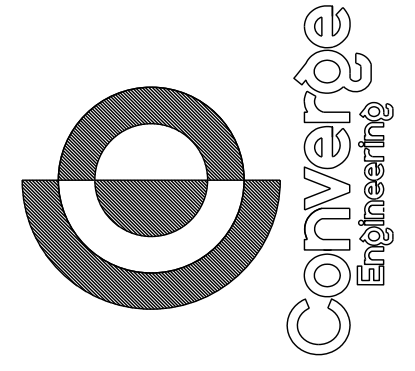


(FRYER HOOD)



DETAIL OF HOOD MOUNTED CONTROLS INTERFACE

CONVERGE ENGINEERING, LLC
 870 CRESTMARK DRIVE
 FARMINGDALE, GA 30122
 678-234-8156
 info@convergeengineering.com



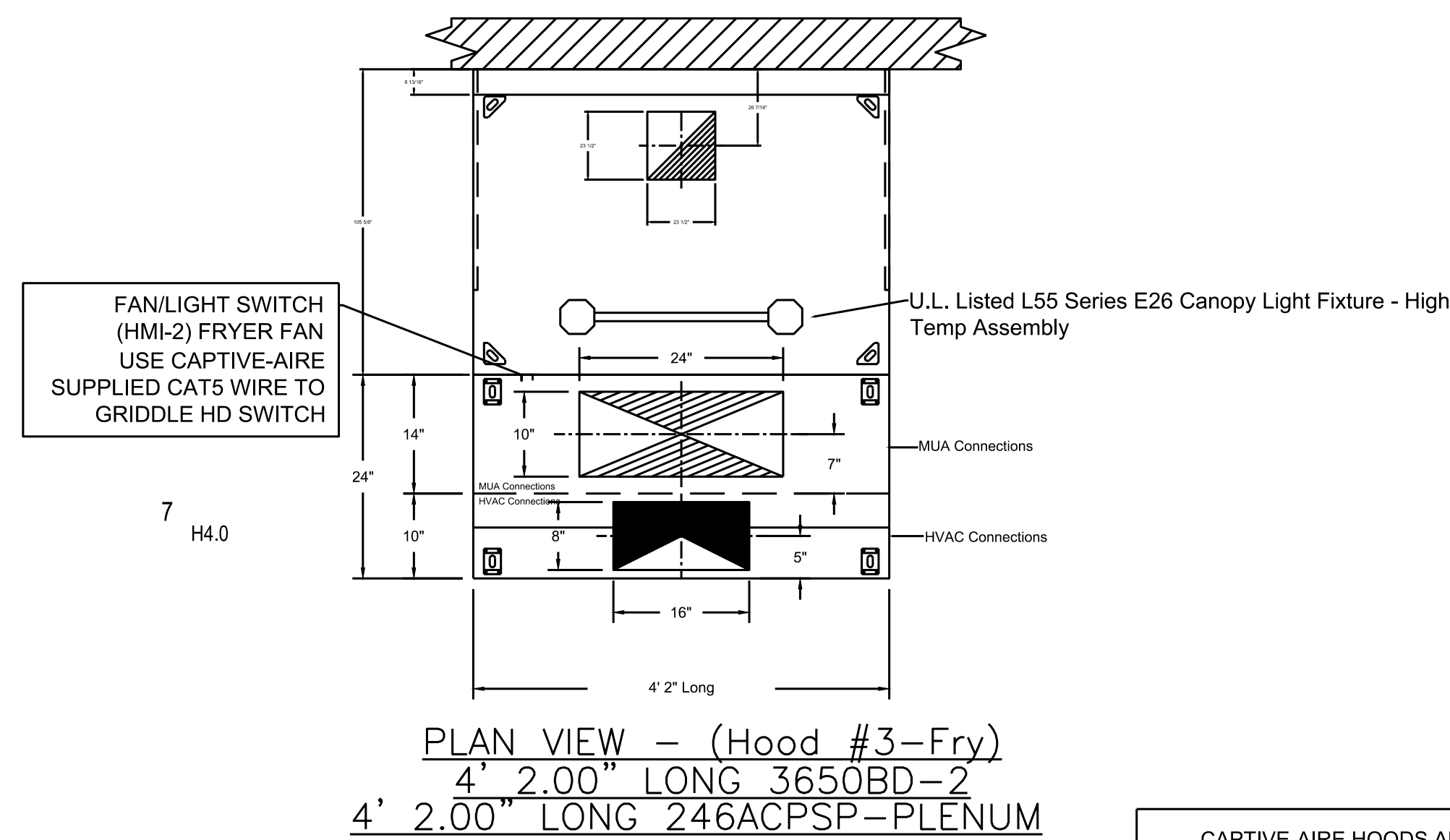
Penn Station Subs
 6828 Matthews Mint Hill Road
 #101
 Mint Hill, NC 28227

REV. NO.	DATE	DESCRIPTION

PROJECT NO:
 DRAWN BY:
 CHECKED BY:
 ISSUE DATE: 3-8-2022

MECHANICAL HOOD PLAN

MH1.0



PLAN VIEW - (Hood #3-Fry)
4' 2.00" LONG 3650BD-2
4' 2.00" LONG 246ACPSP-PLENUM

FAN/LIGHT SWITCH (HMI-2) FRYER FAN USE CAPTIVE-AIRE SUPPLIED CAT5 WIRE TO GRIDDLE HD SWITCH

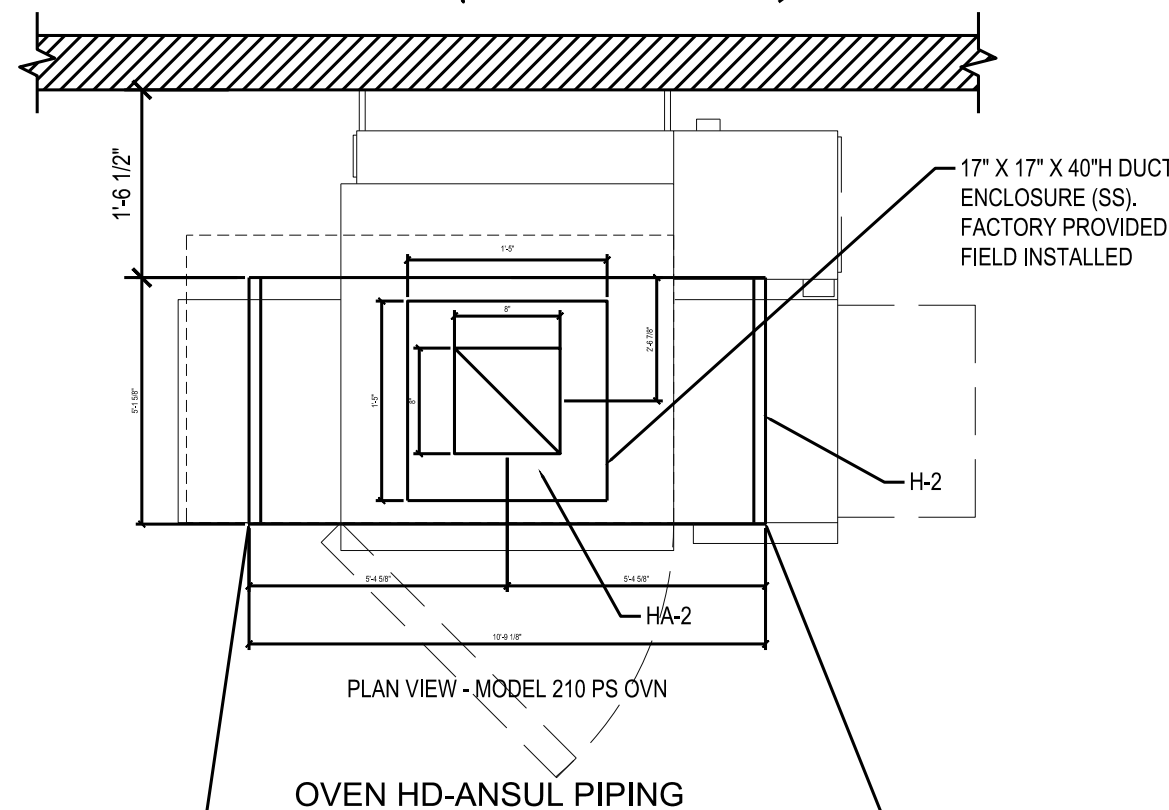
U.L. Listed L55 Series E26 Canopy Light Fixture - High Temp Assembly

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ETL SANITATION LISTED
ETL LISTED FILE# 3054804-001

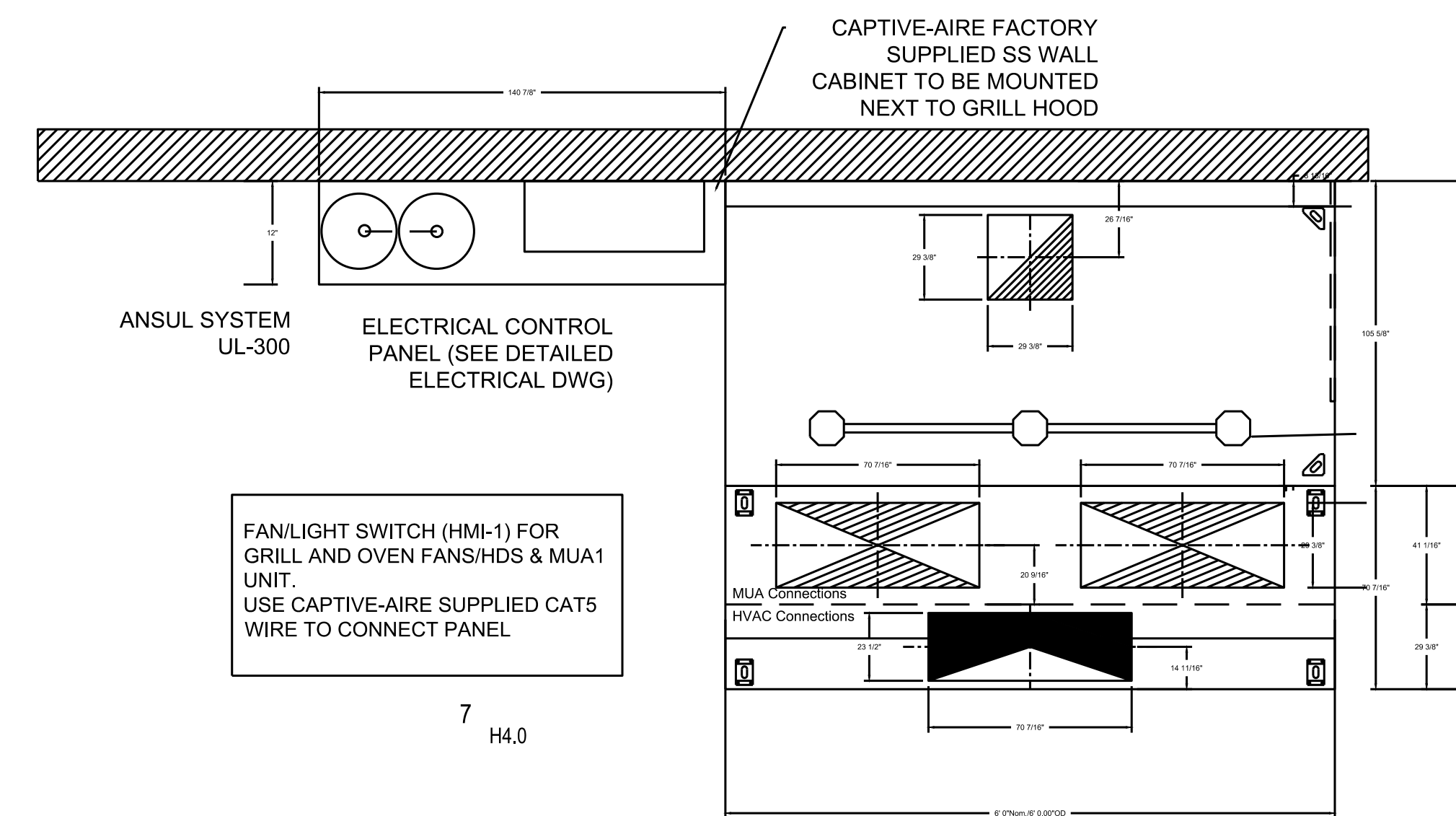
HOOD SYSTEM IS FABRICATED & DESIGNED PER UL-710 STANDARDS

PLANS @ COOK LINE
3/4"=1'-0"
HOOD - (HD2-Oven)



NOTE: PIPING MUST BE INTERNAL TO HOOD AND APPLIANCE. NOZZLES MUST BE PIPED TOWARD THE FRONT (OPERATOR'S SIDE) TO ALLOW OVEN TO BE PULLED OUT. NOZZLES LEFT AND RIGHT OF THE EYEBROW OVEN HOOD SHALL BE HELD TIGHT TO THE TOP FRONT CORNER OF THE OVEN CANOPY AS POSSIBLE.

INSTALL DUCT WRAPPER SUCH THAT ACCESS PANEL FOR HEAT SENSOR IS ON THE SAME SIDE AS THE SENSOR ITSELF (OPERATOR SIDE).



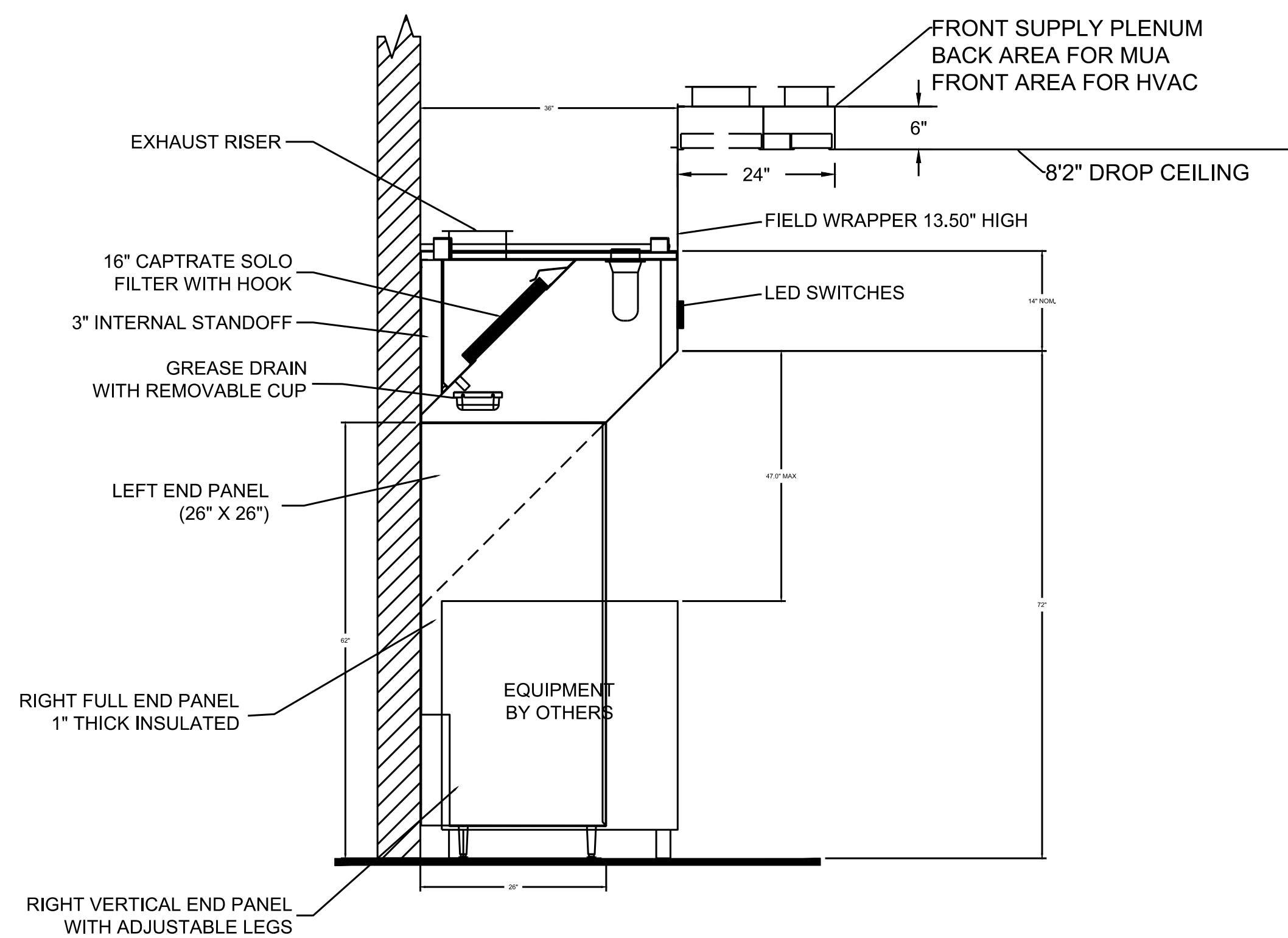
PLAN VIEW - Hood #HD1-Grill
6' 0.00" LONG 3650BD-2
6' 0.00" LONG 246MISC ACPSP-ONLY

ANSUL SYSTEM UL-300

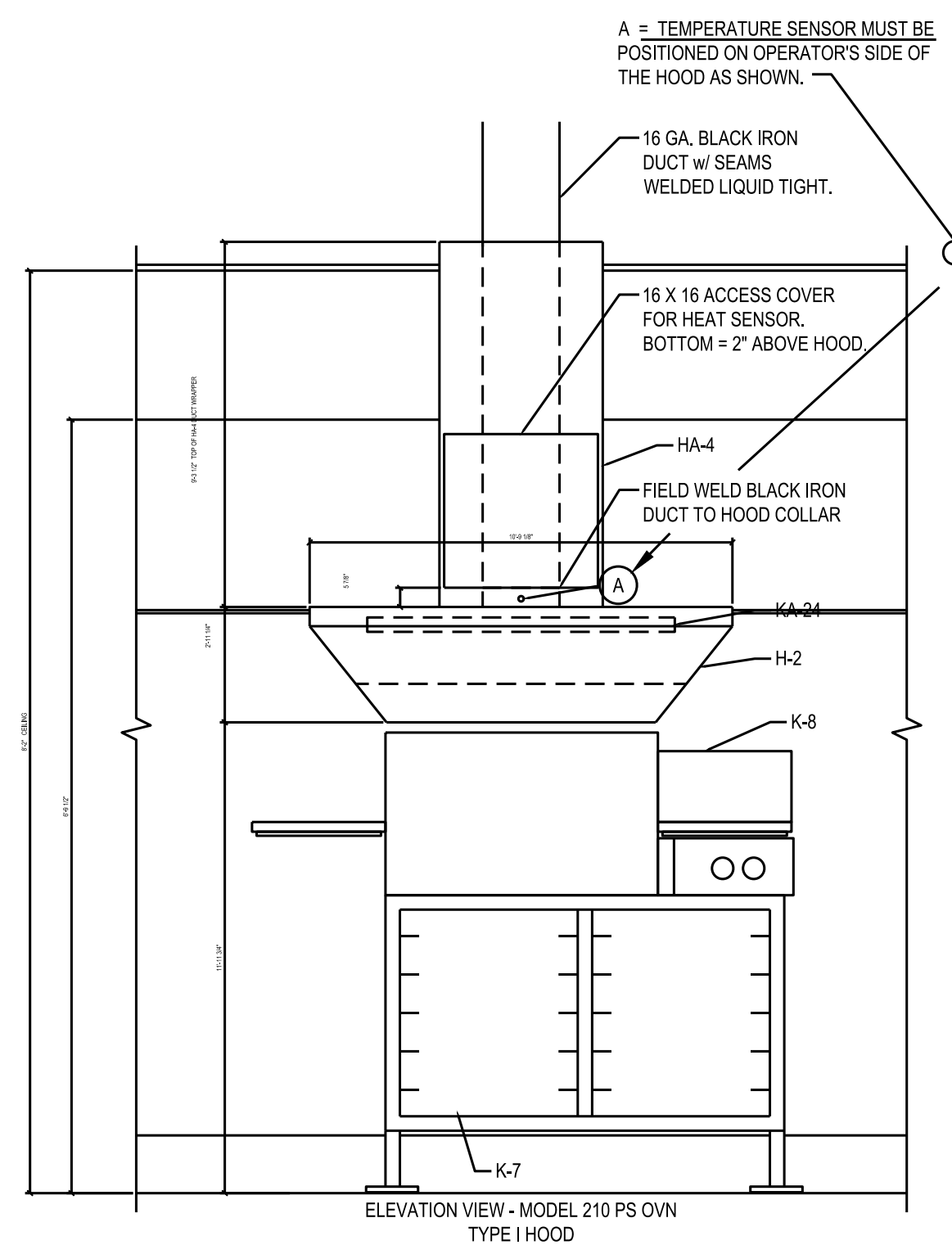
ELECTRICAL CONTROL PANEL (SEE DETAILED ELECTRICAL DWG)

FAN/LIGHT SWITCH (HMI-1) FOR GRILL AND OVEN FANS/HDS & MUA1 UNIT. USE CAPTIVE-AIRE SUPPLIED CAT5 WIRE TO CONNECT PANEL

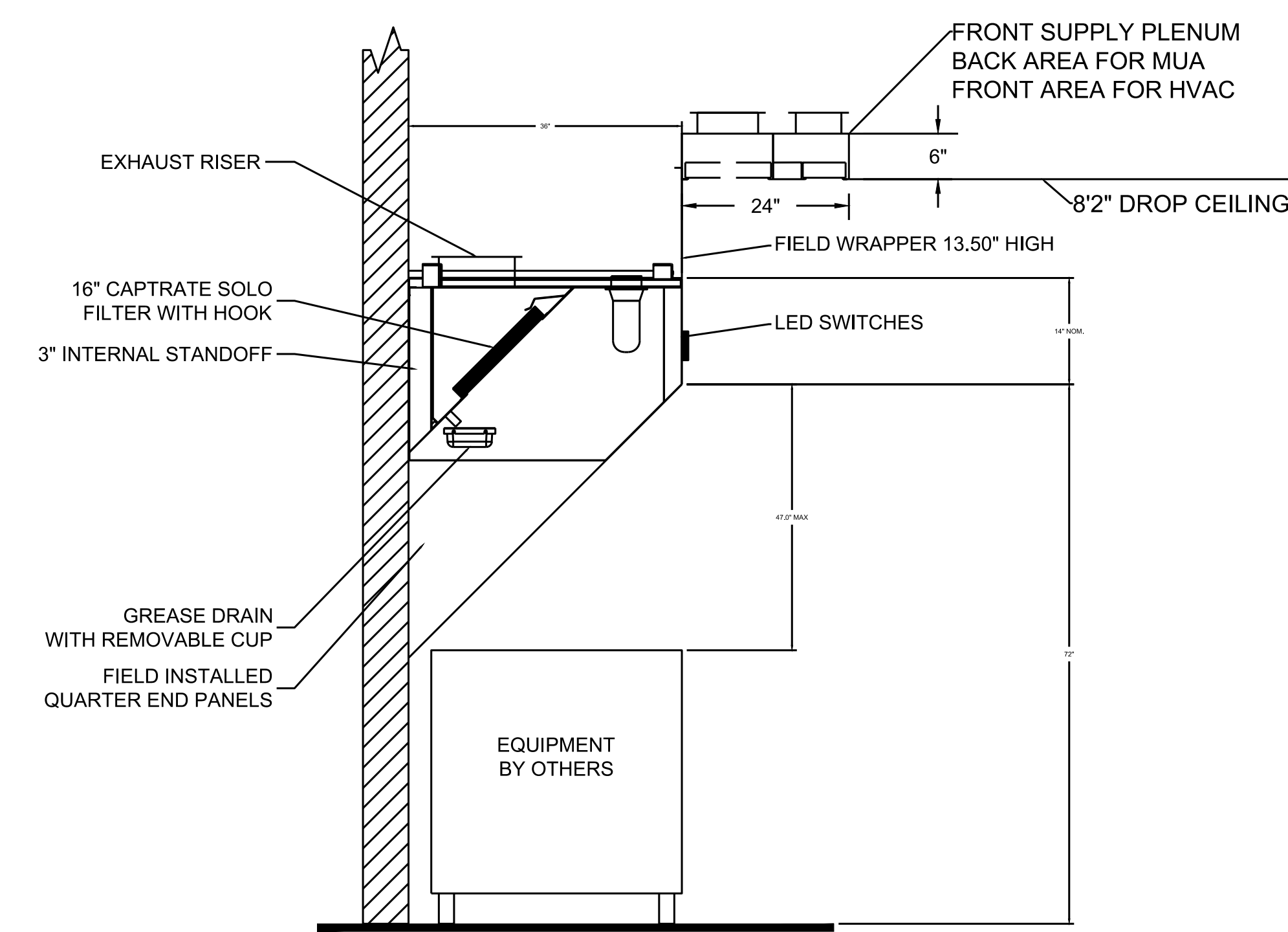
CAPTIVE-AIRE FACTORY SUPPLIED SS WALL CABINET TO BE MOUNTED NEXT TO GRILL HOOD



SECTION VIEW - MODEL 3650BD-2
HOOD - (HD3-Fry)

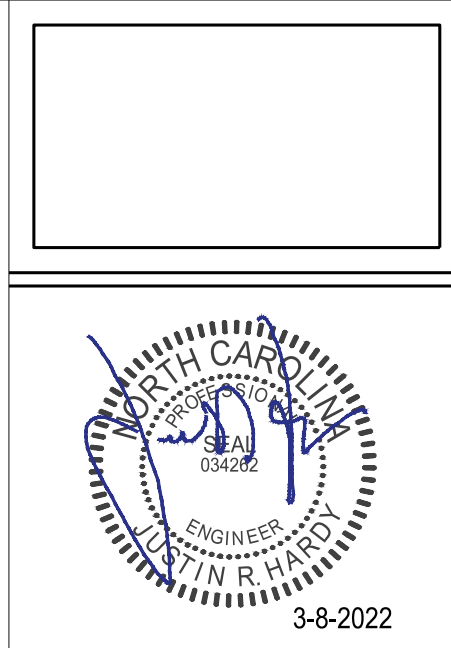


ELEVATIONS @ COOK LINE
3/4"=1'-0"
HOOD - (HD2-Oven)



SECTION VIEW - MODEL 3650BD-2
HOOD - #HD1-Grill

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1329 E. KEMPER RD. SUITE 4210
PHONE: (513) 860-5555
joe.hertenstein@captivaire.com



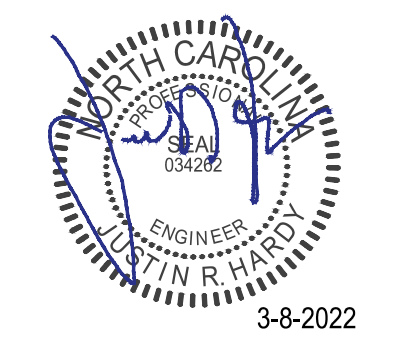
CONVERGE ENGINEERING, LLC
870 CRESTMARK DRIVE
FARMERSVILLE, GA 30122
878-234-8156
info@convergeengineering.com

Converge
Engineering

Penn Station Subs
6828 Matthews Mint Hill Road
#101
Mint Hill, NC 28227

REV. NO.	DATE	DESCRIPTION

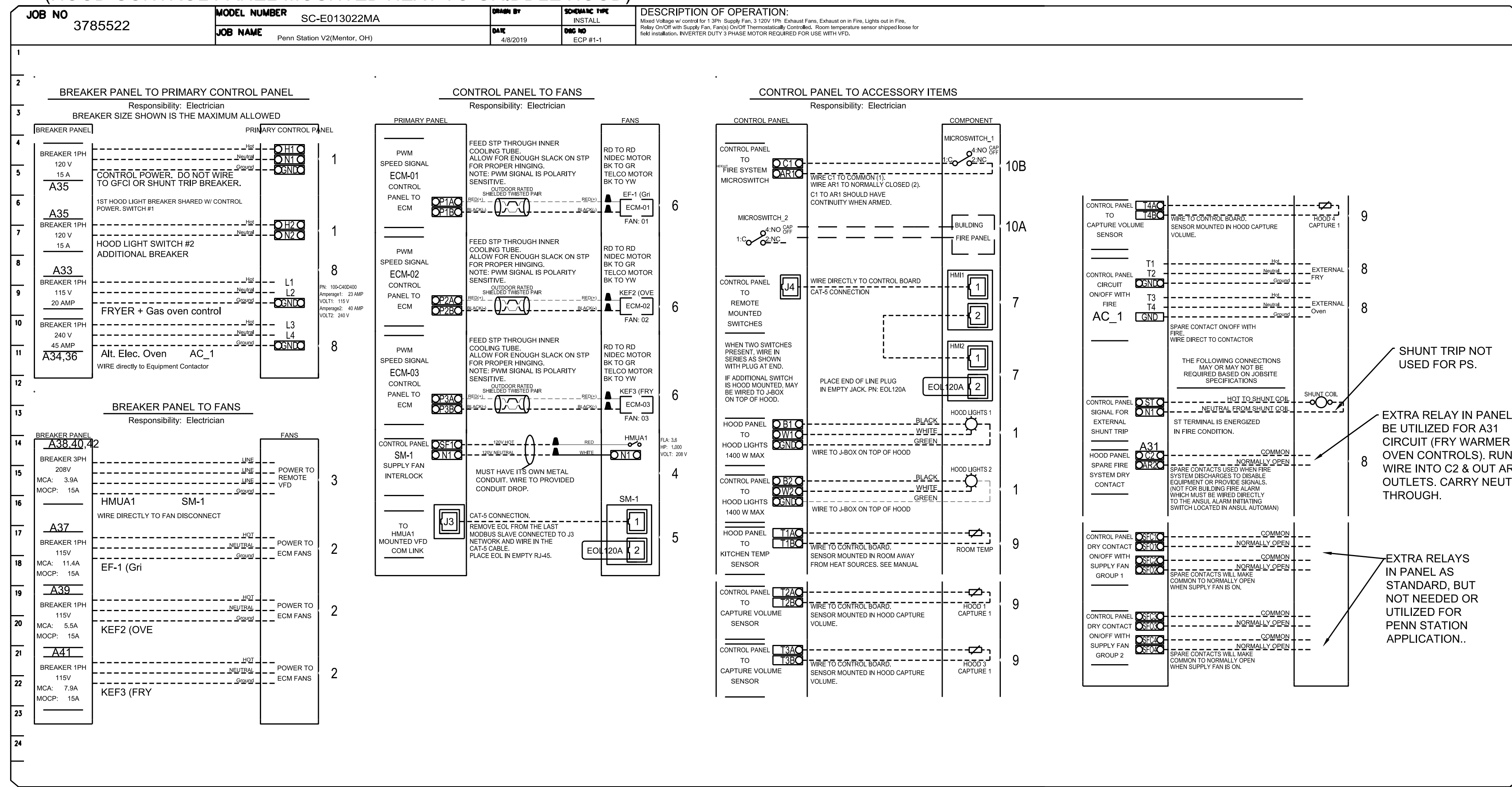
PROJECT NO:
DRAWN BY:
CHECKED BY:
ISSUE DATE: 3-8-2022



ELECTRICAL PACKAGE - Job#4137855

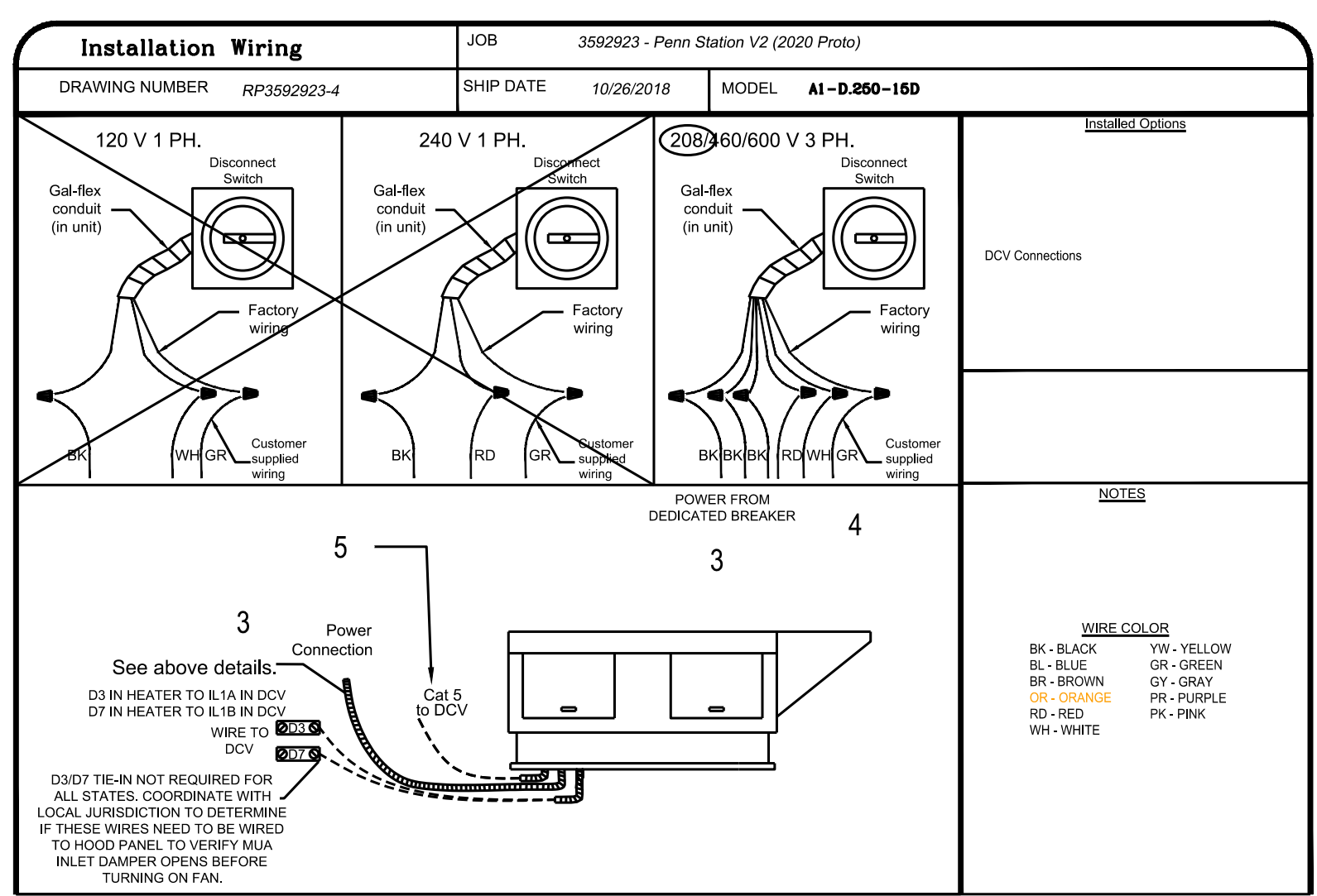
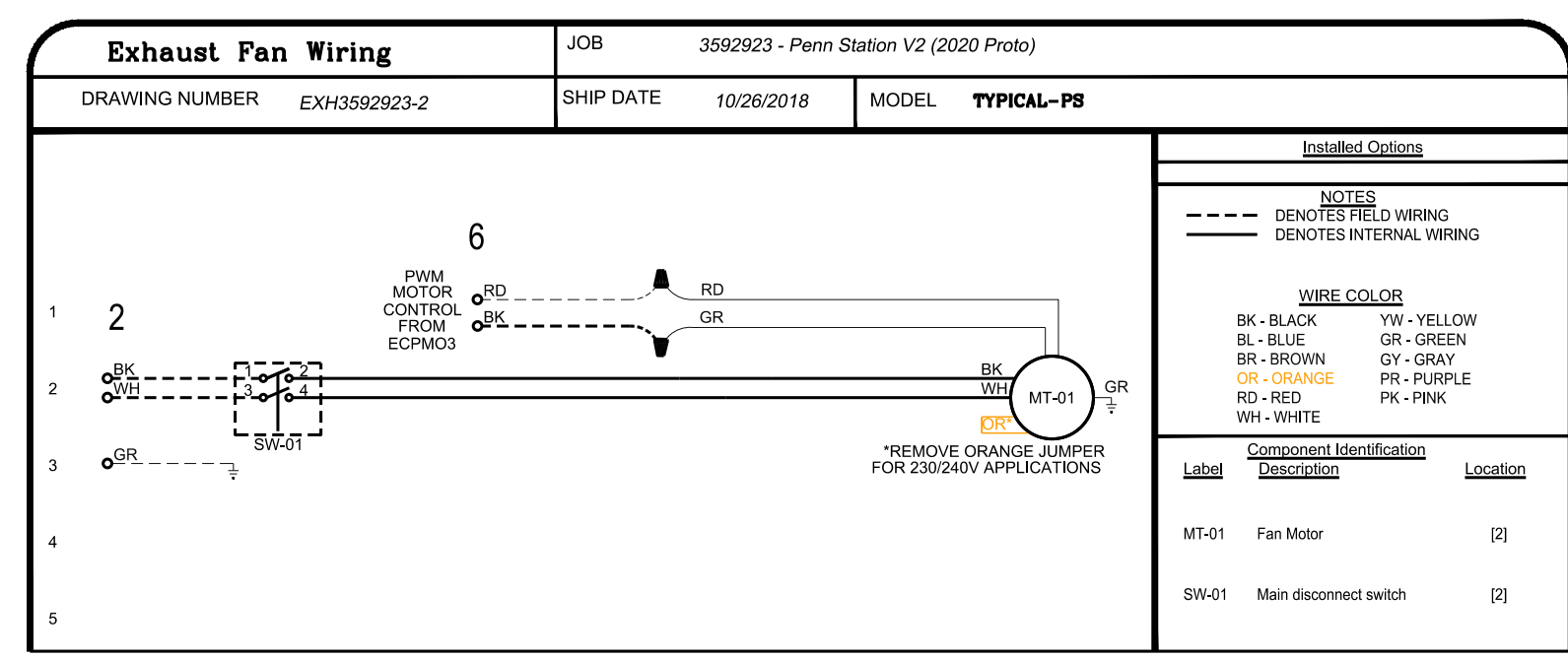
NO.	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	Φ	H.P.	VOLT	FLA
1	ECP1	SC-E013022MA	Wall Utility Cabinet Right	02 - Face Mount Right Side of Hood	2 Light	Smart Controls Thermostatic Control w/ Relay On/Off with Supply	EF-1 (Gril)	Exhaust	1	0.750	115	8.9
				Hood # 1	2 Fan		KEF2 (OVEN)	Exhaust	1	0.333	115	4.3
							KEF3 (FRY)	Exhaust	1	0.750	115	8.8
							HMAU1	Supply	3	1.5	208	4.4

(HOOD CONTROL PANEL-MOUNTED NEXT TO GRIDDLE HOOD)



HOOD SYSTEM WIRING INSTRUCTIONS BY ELECTRICIAN

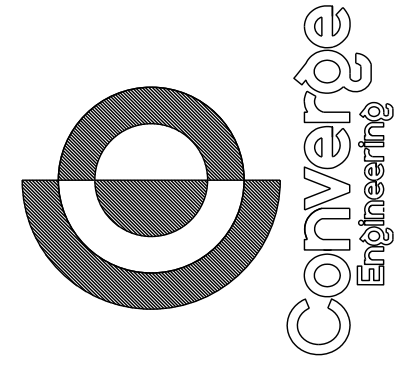
- WIRE 120V, 1 PHASE CIRCUIT FROM BUILDING PANEL TO HOOD CONTROL PANEL TO BE USED FOR CONTROLS & LIGHT CIRCUIT.
- WIRE 120V, 1 PHASE CIRCUITS FROM BUILDING PANEL TO EACH EXHAUST FAN (SEPARATELY) TO CAPTIVE-AIRE SUPPLIED FAN EXTERNAL DISCONNECTS (TYPICAL OF ALL EXHAUST FANS).
- WIRE 208V, 3 PHASE CIRCUIT FROM BUILDING PANEL TO MAKE UP AIR FAN ON ROOF & TIE INTO WHIP OFF DISCONNECT SWITCH WITH GROUND.
- WIRE 120V, 1 PHASE CIRCUIT FROM SF1 & N1 OF CONTROL PANEL TO THE RED & WHITE WIRE ON MAKE UP AIR FOR HEATER CONTROLS. ALSO RUN A 18-2 WIRE FROM MUA TO HOOD CONTROL FOR DAMPER CONTROL.
- USING THE CAT5 CABLE SUPPLIED BY CAPTIVE-AIRE, WIRE FROM J3 PLUG AT CONTROL PANEL TO LEFT SIDE OF VFD IN MAKE UP AIR UNIT.
- THERE IS A RED & BLACK PAIR OF TWISTED WEATHERPROOF WIRE ALREADY FACTORY CONNECTED TO EACH MOTOR OF EACH EXHAUST FAN LOCATED UNDER THE FAN HOUSING LID. RUN EACH WIRE THROUGH MOTOR BREATHING TUBE & THEN DOWN TO HOOD CONTROL PANEL NEXT TO GRILL HOOD. TIE EACH ONE INTO P#A & P#B RESPECTIVELY FOR EACH FAN AS SHOWN ON SCHEMATIC TO THE LEFT.
- WIRE THE CAT5 CABLE SUPPLIED BY CAPTIVE AIRE FROM J4 PLUG TO THE JUNCTION BOX LOCATED ON TOP OF THE GRILL HOOD & PLUG IN FOR GRILL HD SWITCH (HMI-1). THEN WIRE THE OTHER CAT5 CABLE FROM THE GRILL HOOD JUNCTION BOX TO THE FRY HOOD JUNCTION BOX ON TOP OF HOOD & PLUG INTO J PLUG FOR THE FRY HOOD SWITCH (HMI-2). YOU ARE WIRING THE SWITCHES TO THE PANEL IN SERIES. SEE H1.0, H2.0
- WIRE THE 120V 1 PHASE FRYER(S)/WARMER CIRCUITS & THE 240V 1 PHASE OVEN CIRCUIT FROM BUILDING PANEL TO HOOD CONTROL PANEL TO THE RESPECTIVE 120V & 240V CONTACTORS & THEN FROM HOOD CONTROL PANEL TO THE RESPECTIVE WALL OUTLETS.
- USING THE WHITE WIRE SUPPLIED BY CAPTIVE-AIRE WIRE FROM EACH HOOD DUCT SENSOR LOCATED IN HOOD EXHAUST COLLAR OR TOP OF HOOD IN JUNCTION BOX TO HOOD CONTROL PANEL & TIE INTO T2A & T2B, T3A & T3B, T4A & T4B. THEN INSTALL WHITE TEMP SENSOR SUPPLIED BY CAPTIVE AIRE ON RIGHT SIDE OF HOOD SS PANEL & WIRE TO T1A & T2B.
- IF BUILDING ALARM IS PROVIDED WITH BUILDING THEN WIRE DIRECTLY INTO THE FRONT SECTION OF THE ANSUL MICROSWITCH PER THE BUILDING FIRE PANEL REQUIREMENTS TO RECEIVE AN ALARM SIGNAL UPON FIRE SYSTEM ACTUATION. IF NO BUILDING ALARM, THEN SUPPLY A HORN/LIGHT STROBE & MOUNT IN SIGHT OF HOODS AND TIE DIRECTLY INTO ANSUL MICROSWITCH AT N0 CONTACT ON SWITCH (BLACK WIRE OF MICROSWITCH) & A NEUTRAL FROM CONTROL PANEL.
- INSTALL LIGHT BULBS IN HOODS SUPPLIED BY OWNER. VERIFY ALL FANS & LIGHTS POWER UP. CHECK ROTATION FOR SUPPLY FAN. ANY QUESTIONS CONTACT JOE AT 513-860-5555. 5 BULBS REQ'D - SUPPLIED IN GENERAL LIGHTING PACKAGE.



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 joe.hertenstein@captiveaire.com



CONVERGE ENGINEERING, LLC
 870 CRESTMARK DRIVE
 GREENSBORO, NC 27409
 778-234-8156
 info@convergeengineers.com



Penn Station Subs
 6828 Matthews Mint Hill Road
 #101
 Mint Hill, NC 28227

REV. NO.	DATE	DESCRIPTION

PROJECT NO:
 DRAWN BY:
 CHECKED BY:
 ISSUE DATE: 3-8-2022

MECHANICAL HOOD PLAN

MH1.2

