

GENERAL NOTE

KITCHEN HOOD PACKAGE PROVIDED FOR REFERENCE ONLY. KITCHEN EQUIPMENT PROVIDER IS PROVIDING KITCHEN HOOD PACKAGE. MECHANICAL CONTRACTOR RESPONSIBLE FOR INSTALLATION AND ALL INTERCONNECTING DUCTWORK.

HOOD INFORMATION - JOB#7464092																				
HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)				TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG				
										WIDTH	LENG	HEIGHT	DIA			CFM	VEL	SP	END TO END	RDW
1	33 - Pizza	7824 ND-2-PSP-F	CAPTIVEAIRE	11' 11"	450 DEG	I	MEDIUM	200	2383			4'	16'	2383	1707	-0.809"	1906	430 SS WHERE EXPOSED	ALONE	ALONE
2	33 - Range	5424 ND-2-PSP-F	CAPTIVEAIRE	7' 4"	600 DEG	I	HEAVY	200	1467			4'	12"	1467	1868	-0.680"	1174	430 SS WHERE EXPOSED	ALONE	ALONE
3	59 - Conveyer Pizza	4824 VHB	CAPTIVEAIRE	6' 6"	700 DEG	II	N/A	125	812			4'	12"	812	1034	-0.085"	0	430 SS 100%	ALONE	ALONE

HOOD INFORMATION																	
HOOD NO	TAG	TYPE	FILTER(S)			LIGHT(S)			UTILITY CABINET(S)			FIRE SYSTEM PIPING	HOOD HANGING WEIGHT				
			QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE			TYPE	SIZE	MODEL #	QUANTITY
1	33 - Pizza	CAPTRATE SOLD FILTER	8	20"	16"	85% SEE FILTER SPEC	3	RECESSED ROUND	NO	RIGHT	12"x78"x24"	TANK FS	4.0/4.0/4.0	DCV-2111	1 LIGHT 1 FAN	YES	1152 LBS
2	33 - Range	CAPTRATE SOLD FILTER	5	20"	16"	85% SEE FILTER SPEC	2	RECESSED ROUND	NO							YES	400 LBS
3	59 - Conveyer Pizza						0									NO	197 LBS

HOOD OPTIONS												
HOOD NO	TAG	OPTION										
1	33 - Pizza	LEFT END STANDOFF (FINISHED) 1' WIDE 78" LONG INSULATED. BACK STANDOFF (FLAT) 15" WIDE 156" LONG. RIGHT QUARTER END PANEL 36" TOP WIDTH, 0" BOTTOM WIDTH, 36" HIGH 430 SS. BALANCE DAMPERS.										
2	33 - Range	BALANCE DAMPERS. RISER SENSOR INSTALL 6IN PLEN.										

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

PERFORATED SUPPLY PLENUM(S)												
HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)					
							WIDTH	LENG	DIA	CFM	SP	
1	33 - Pizza	Front	156"	14"	6"	MUA	8"	36"		635	0.180"	
						MUA	8"	36"		635	0.180"	
2	33 - Range	Front	88"	14"	6"	MUA	12"	20"		587	0.186"	
						MUA	12"	20"		587	0.186"	

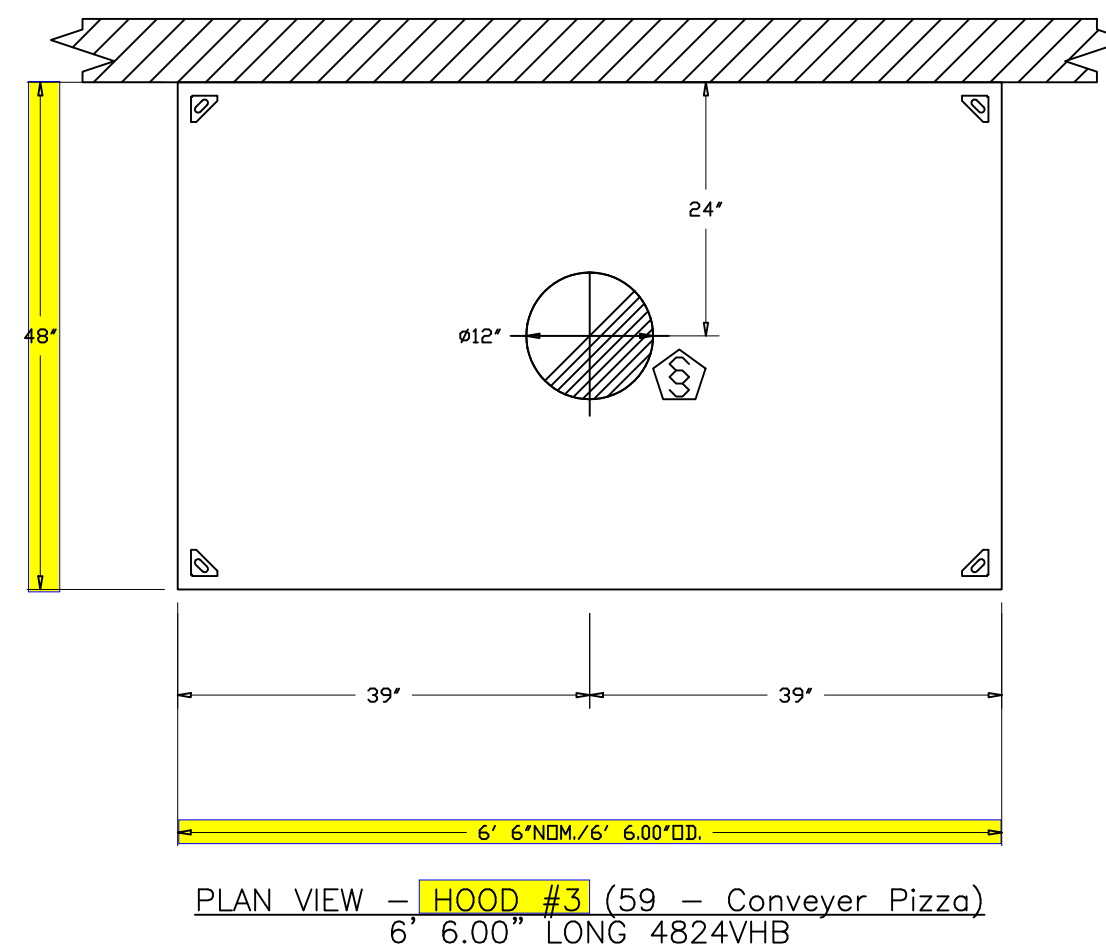
EXHAUST FAN INFORMATION - JOB#7464092																
FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SDNES
1	KEF-1	1	USB24DD-RM	CAPTIVEAIRE	3950	2.000	1021	TEFC,PREMIUM	5.000	2.4370	3	208	15.6	1276 FPM	811	20.4
2	KEF-2	1	USB11DD-RM	CAPTIVEAIRE	812	0.650	1435	TEAO-ECM	0.500	0.1830	1	115	6.3	866 FPM	182	7.7

MUA FAN INFORMATION - JOB#7464092																								
FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MOCP	EVAP FLOW RATE (GAL/HR)	EVAP COOLER ENTERING DB TEMP	EVAP COOLER LEAVING WB TEMP	EVAP COOLER ENTERING DB TEMP	EVAP COOLER LEAVING WB TEMP	WEIGHT (LBS)	SDNES
3	MAU-1	1	A2-D.250-20D	20MF-2-MDD	A2-D.250	2000	3730	0.500	1575	TEFC,PREMIUM	3.000	2.0970	3	230	8.5	11.7A	20A	5.28	95.0°F	66.0°F	75.0°F	66.0°F	1104	15.6

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(%)
3	MAU-1	171651	157919	42°F	7 IN. W.C. - 14 IN. W.C.	NATURAL	92

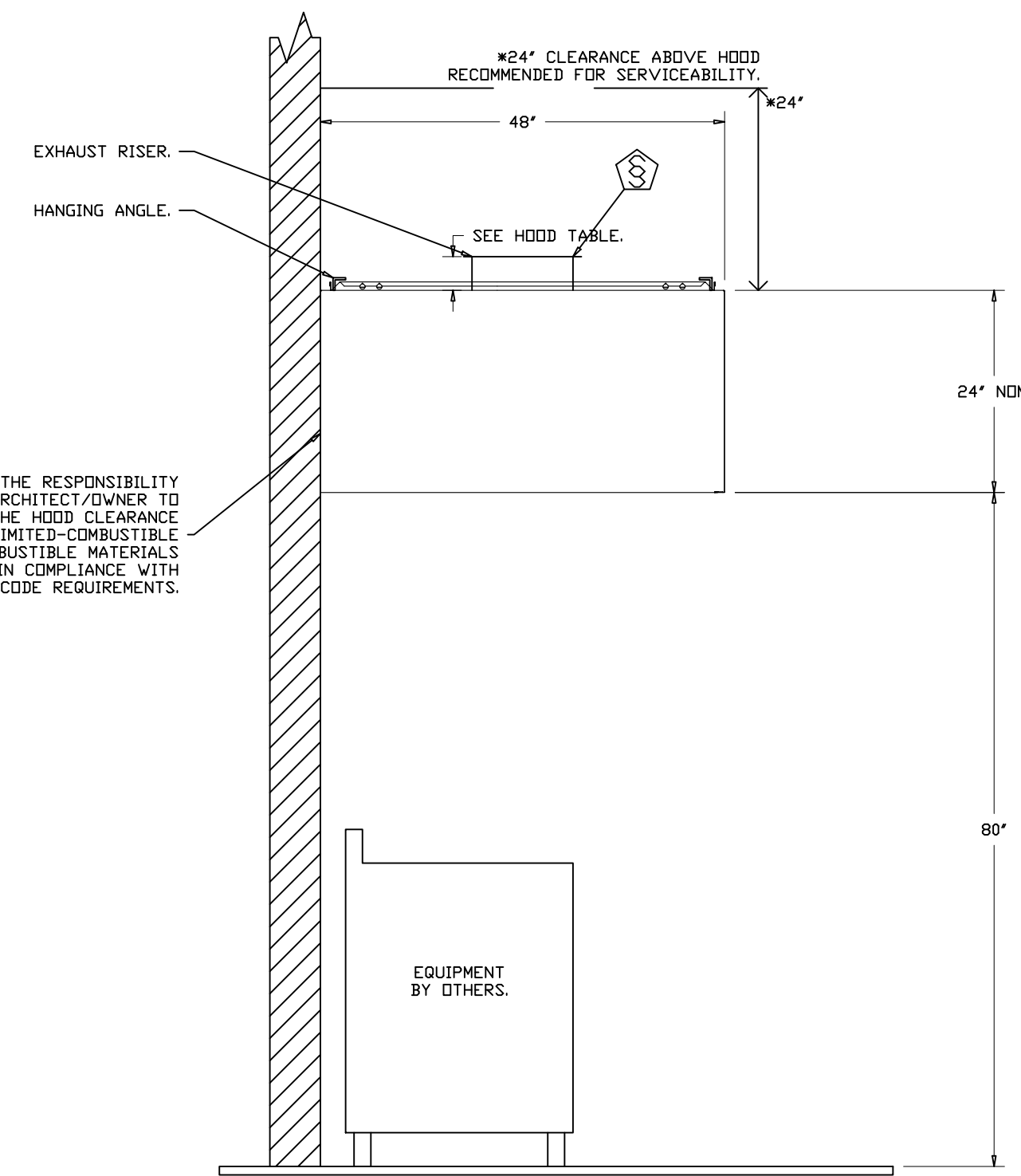
FAN OPTIONS			
FAN UNIT NO	TAG	QTY	DESCRIPTION
1	KEF-1	1	B124 - INLET SERVICE DUCT CONNECTION USED TO CONNECT TO STANDARD 24" GREASE DUCT OR FIELD WELDED DUCT. INCLUDES (2) 7" RISERS BOLTED TO STANDARD INLET RISER
		1	UTILITY SET GREASE CUP
		1	B124 - 24" DISCHARGE EXTENSION
		1	B1 - DISCHARGE ORIENTATION VERTICAL UPPER LEFT - CW INLET SIDE
		1	B124 - INLET CONNECTION STANDARD 24" FLANGED GREASE DUCT
		1	3 YEAR EXTENDED MOTOR WARRANTY
2	KEF-2	1	UTILITY SET - SPRING VIBRATION ISOLATORS - B124 THRU B130 / EQUIVALENT SIZED. UTILITY SET / SIF 24-30 + FILTER BANK - INDOOR/OUTDOOR USE
		1	UNIT MOUNTED VFD FOR USE WITH ECPM03
		1	2 YEAR PARTS WARRANTY
		1	B111 - INLET SERVICE DUCT CONNECTION USED TO CONNECT TO STANDARD 12" GREASE DUCT OR FIELD WELDED DUCT. INCLUDES (2) 7" RISERS BOLTED TO STANDARD INLET RISER
		1	B111 - 24" DISCHARGE EXTENSION
		1	B1 - DISCHARGE ORIENTATION VERTICAL UPPER LEFT - CW INLET SIDE
3	MAU-1	1	B111 - INLET CONNECTION STANDARD 12" FLANGED GREASE DUCT
		1	3 YEAR EXTENDED MOTOR WARRANTY
		1	BLUE RUBBER VIBRATION ISOLATORS FOR BI UTILITY SETS (SET OF 6)
		1	ECM WIRING PACKAGE - EXHAUST - MODBUS CONTROL -MSC- (TELCD), CCW ROTATION
		1	2 YEAR PARTS WARRANTY
		1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC
		1	BUTTERFLY MOD VALVE OPTION FOR MOD SIZE 2 (1" MOD VALVE)
		1	MOTORIZED BACKDRAFT DAMPER FOR A2-D HOUSING - MEETS AMCA CLASS IA RATING
		1	IBT/MUA EVAP INTERLOCK
1	3 YEAR EXTENDED MOTOR WARRANTY		
1	FREEZE PROTECTION DRAIN KIT FOR IBT/MUA WITH EVAPORATIVE COOLERS		
1	UNIT MOUNTED VFD FOR USE WITH ECPM03		
1	SIZE 2 DIRECT FIRED HEATER LOW CFM PROFILE PACKAGE - USED ON HEATERS UNDER 2500 CFM		
1	2 YEAR PARTS WARRANTY		
1	EXTERNAL GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET		

CURB ASSEMBLIES					
NO	DN FAN	TAG	WEIGHT	ITEM	SIZE
3	# 3	MAU-1	100 LBS	CURB	31.000"W X 79.000"L X 20.000"H INSULATED.
	# 3			RAIL	4.000"W X 4.000"L X 36.000"H.
	# 3			RAIL	4.000"W X 4.000"L X 36.000"H.

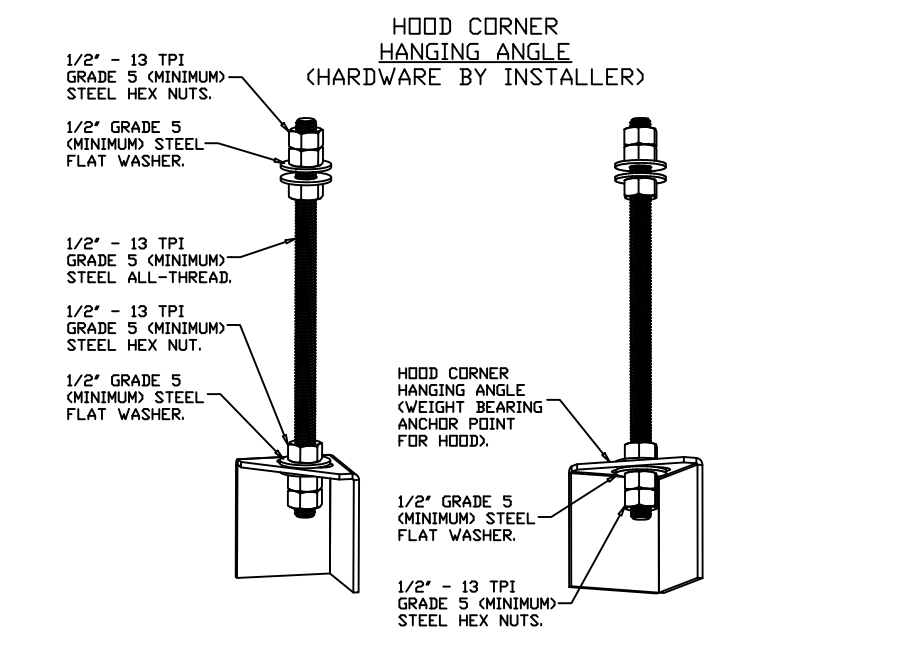


PLAN VIEW - HOOD #3 (59 - Conveyer Pizza)
6" 6.00" LONG 4824VHB

NOTE: SEE SHEET M2.09 FOR FAN INFORMATION



SECTION VIEW - MODEL 4824VHB HOOD - #3 (59 - Conveyer Pizza)



HANGING ANGLE MUST BE SUPPORTED BY 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" - 13 TPI 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.

FOR QUESTIONS, CALL THE Los Angeles Office REGION 81 PHONE: (310) 876 - 8505 EMAIL: reg81@captiveaire.com

REVISIONS

NO	DESCRIPTION	DATE

CAPTIVEAIRE
Los Angeles Office
1910 14th St Suite 214, Santa Monica, CA 90404 PHONE: (310) 876 - 8505 FAX: 0197475889 EMAIL: reg81@captiveaire.com www.captiveaire.com

SLICE HOUSE
1938 First Street,
Livermore, CA, 94550

DATE: 4/10/2025
DWG# 7464092
DRAWN BY: brian81
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 1



SLICE HOUSE
1948 FIRST STREET
LIVERMORE, CA 94550

PROFICIENT ENGINEERING
3130 Wilcomb Bridge Road
Norcross, Georgia 30071
404.330.9798

FOR CONSTRUCTION

DRAWN BY: SL
CHECKED BY: PK

ISSUE / REVISIONS:	
DATE	DESCRIPTION
5/15/2025	PERMIT
7/24/2025	PERMIT RESUBMISSION 1

SHEET NAME:
KITCHEN HOOD PACKAGE

SHEET NUMBER:
M201

05.15.25

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Captrate Grease-Stop Solo Filter

Filter Detail CAPTRATE

EXHAUST CFM=LENGTH OF HOOD X CFM/LIN.FT. (LOAD)
 SUPPLY CFM=EXHAUST CFM X PERCENTAGE REQUIRED
 TOTAL DUCT AREA=144 X CFM(4)
 DUCT LENGTH= TOTAL DUCT AREA

CALCULATIONS UTILIZED

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH:

- NFPA #96
- B.C.C.A. #23-10
- U.S.O.C. 34418
- SBCO PST & ESI NO. 83137
- E.T.L. LISTED 3054804-001
- LOS ANGELES 1997800
- E.T.L. IS LISTED TO ILC STANDARDS

BUILDING CODES

GREASE CUP WILL BE SUPPORTED BY TWO STUDS ON THE INSIDE WALL OF THE HOOD. THE GREASE WILL DRAIN THROUGH A CONCEALED GREASE TROUGH AND INTO THIS REMOVABLE/CLEANABLE CUP.

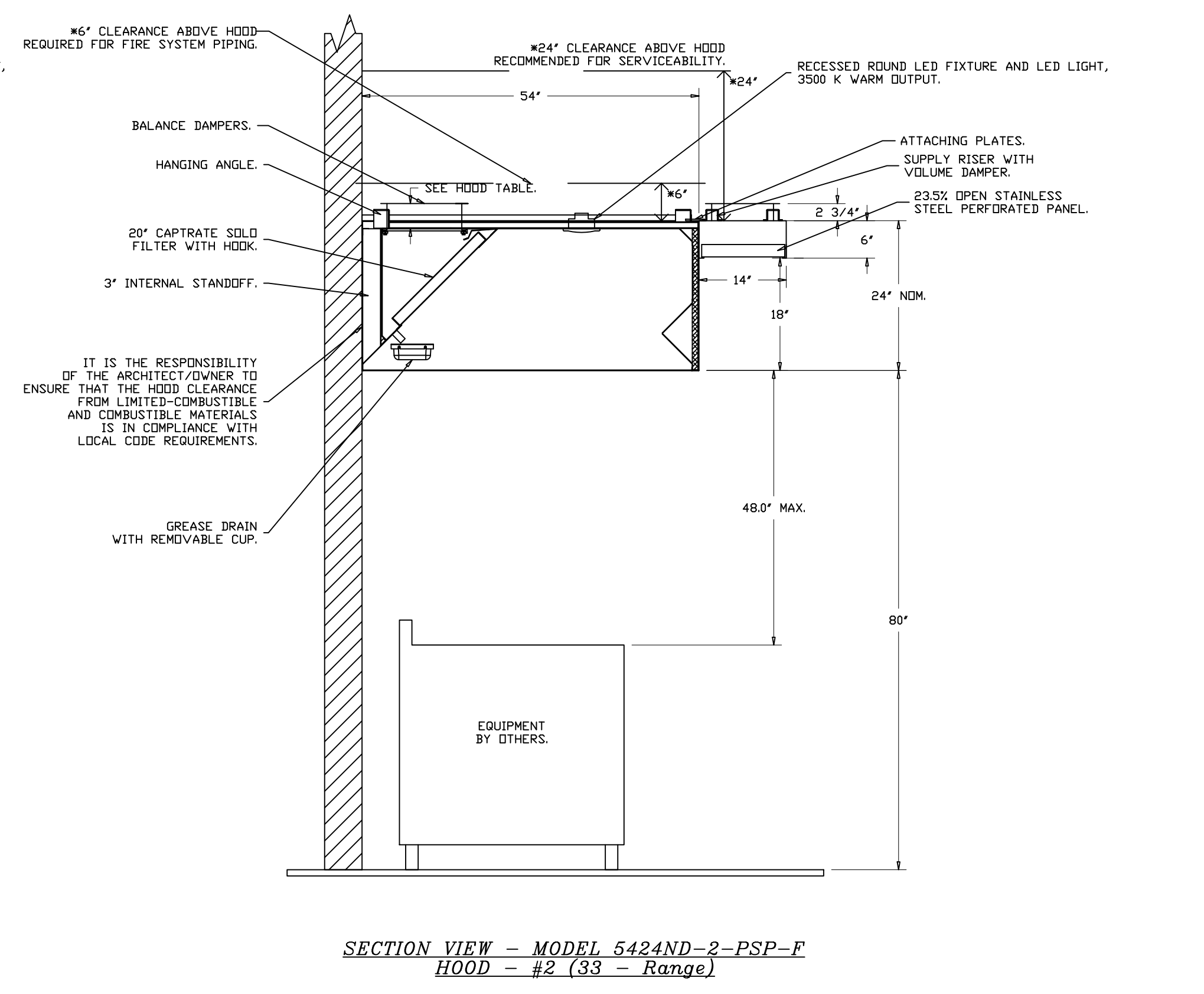
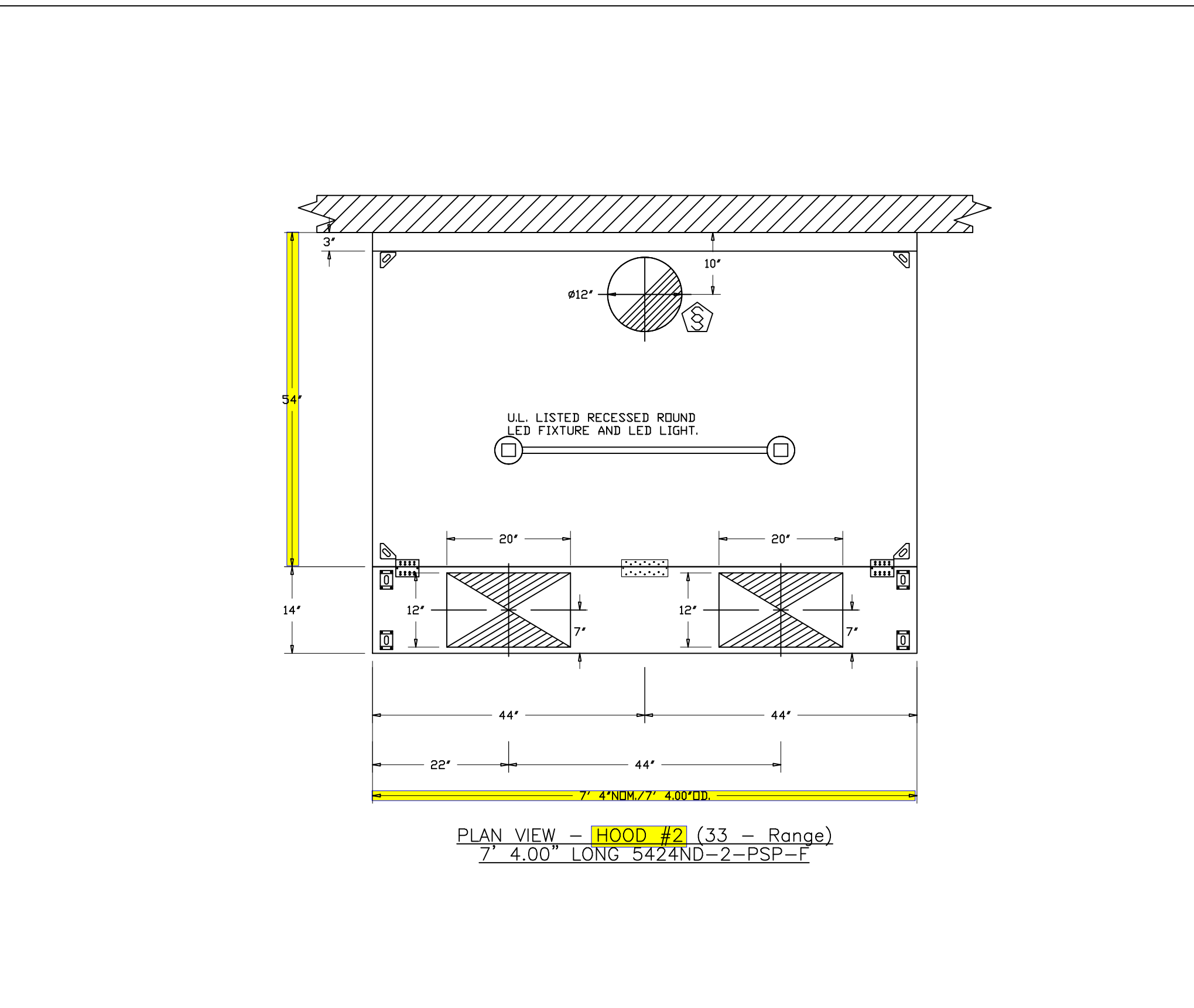
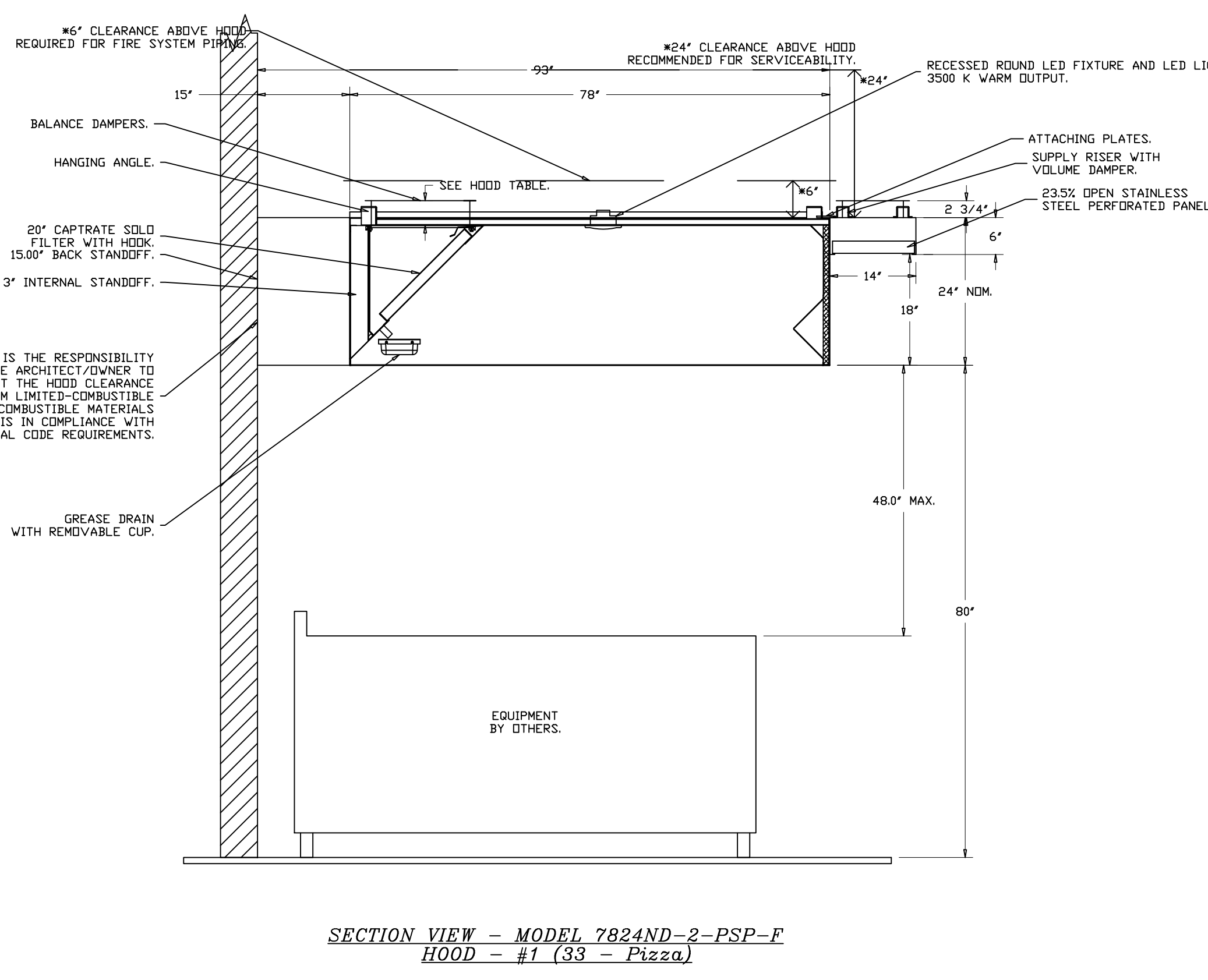
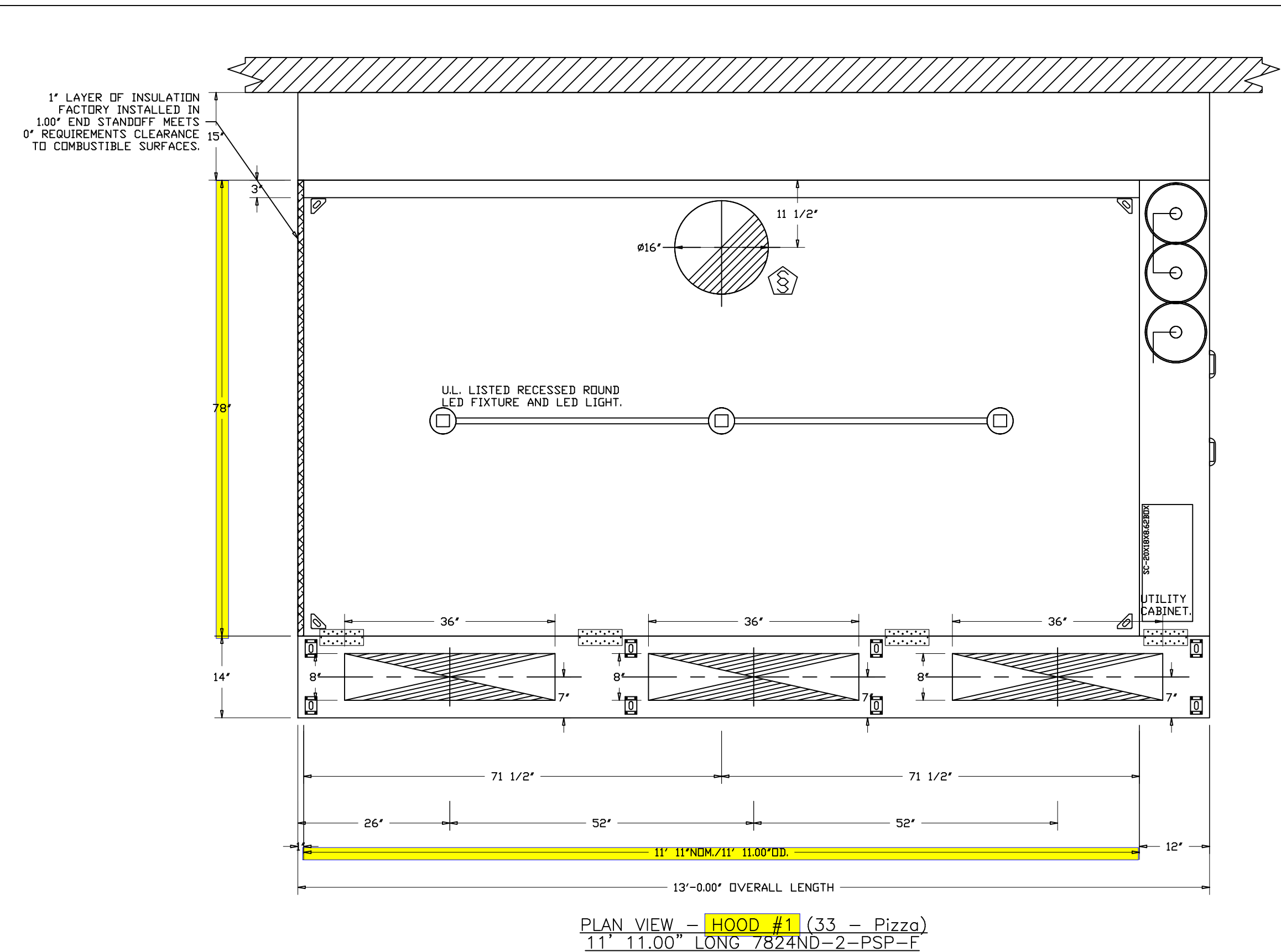
1/2 Pint Grease Cup Detail

ND-2 HANGING ANGLE DETAIL

HANGING ANGLES WILL BE LOCATED IN THE FOLLOWING LOCATIONS FOR WALL CANOPIES

HOOD STYLE	DIM FROM REAR	DIM FROM FRONT (24" High Hood)	DIM FROM FRONT (30" High Hood)
Wall Exhaust Only	4.166"	2.25"	2.25"
Wall Exhaust With MUA	4.166"	2.25"	2.25"
Back Shelf Exhaust Only	4.166"	2.25"	2.25"
Back Shelf Exhaust With MUA	4.166"	2.25"	2.25"
Condensate	2.25"	2.25"	2.25"

HANGING ANGLE LOCATIONS



REVISIONS

NO.	DESCRIPTION	DATE

CAPTIVE-AIRE

Los Angeles Office
 1910 14th St Suite 214, Santa Monica, CA 90404 PHONE: (310) 378-8866 FAX: 310 4776889 EMAIL: info@captivaire.com

SLICE HOUSE
 1938 First Street,
 Livermore, CA, 94550

DATE: 4/10/2025
 DWG #: 7464092
 DRAWN BY: brian81
 SCALE: 3/4" = 1'-0"
 MASTER DRAWING

SHEET NO. 2

REGISTERED PROFESSIONAL ENGINEER
 PAUL KENNEY
 M35746
 MECHANICAL
 STATE OF CALIFORNIA

SLICE HOUSE
 1948 FIRST STREET
 LIVERMORE, CA 94550

PROFICIENT ENGINEERING
 3130 Wilcomb Bridge Road
 Norcross, Georgia 30071
 404.330.9798

FOR CONSTRUCTION

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7/24/2025	PERMIT RESUBMISSION 1

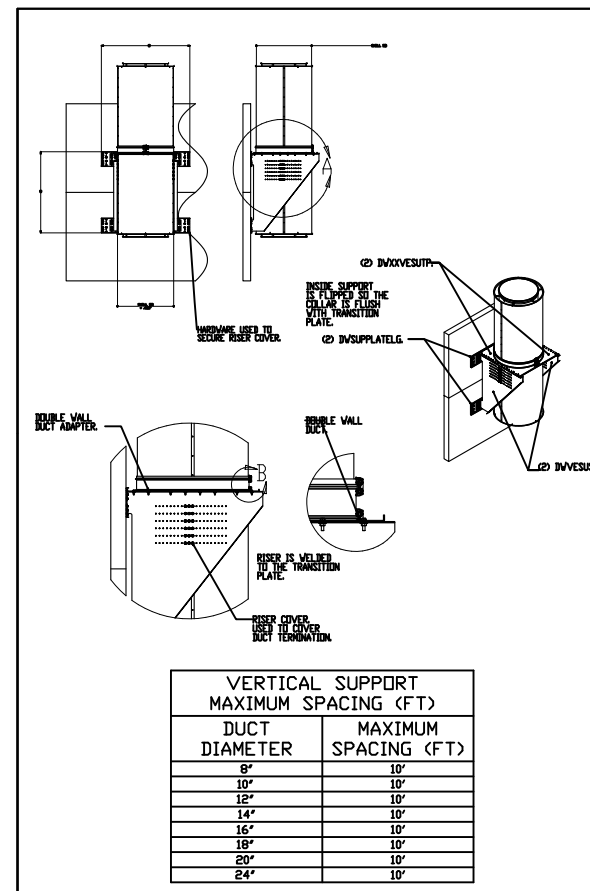
SHEET NAME:
 KITCHEN HOOD PACKAGE

SHEET NUMBER:
 M202

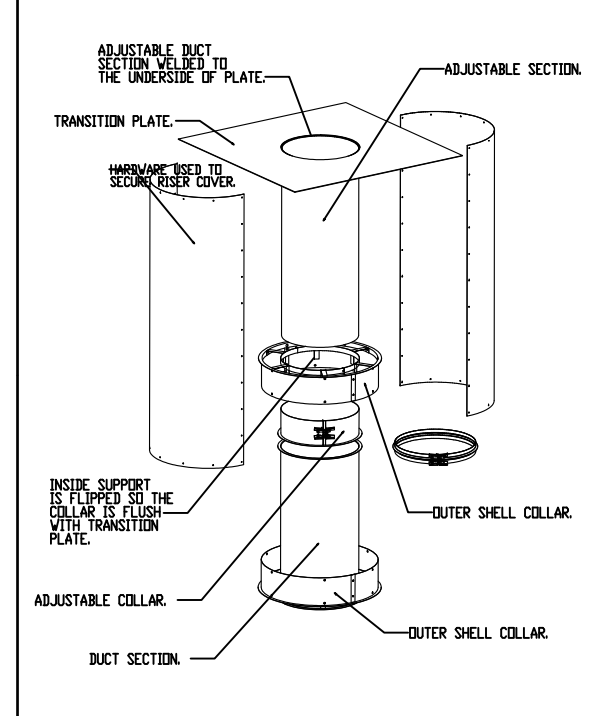
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GENERAL NOTE

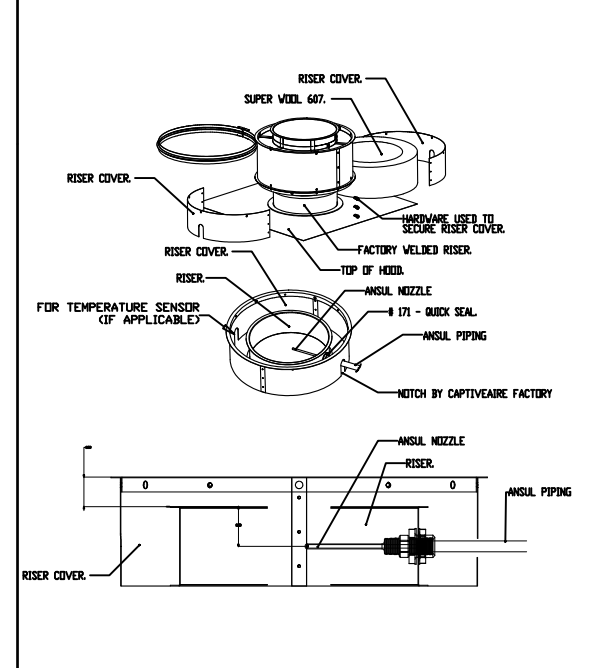
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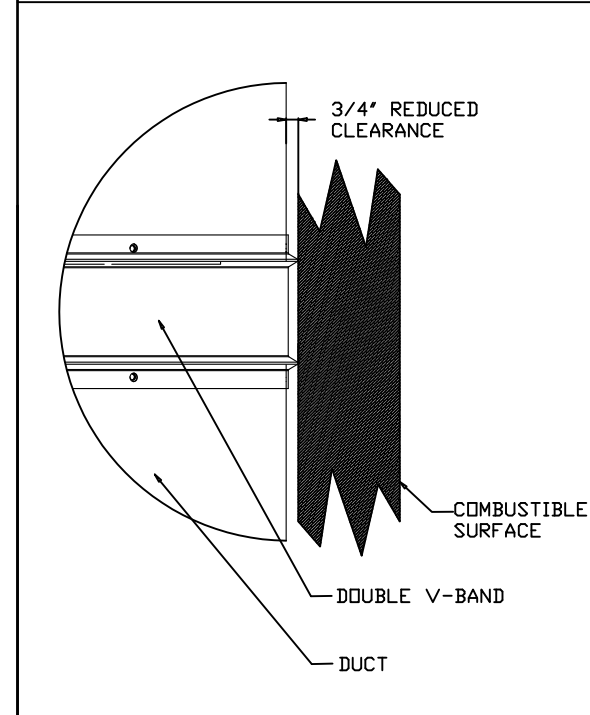
DUCT SUPPORT ASSEMBLY



TRANSITION PLATE DETAIL



OUTER DUCT BAND DETAIL

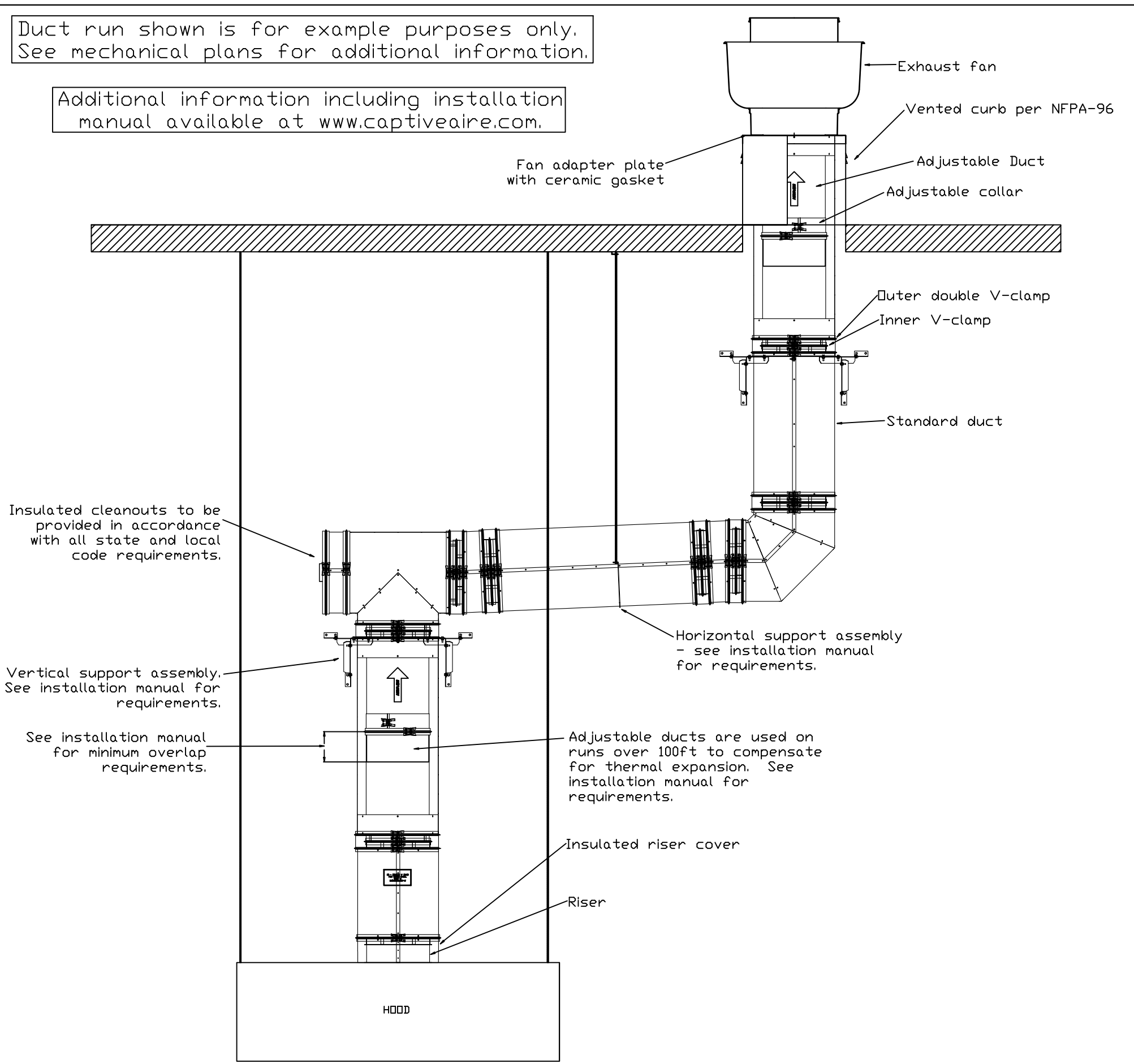


REDUCED CLEARANCE DETAIL

- DUCTWORK NOTES**
- DUCT RUN TO BE FIELD VERIFIED. PARTS SUBJECT TO CHANGE.
 - DUCT RUNS TO HAVE CLEANOUTS EVERY 10' AND EVERY CHANGE OF DIRECTION UNLESS SPECIFIED OTHERWISE.
 - VERTICAL HANGING SUPPORTS TO BE EVERY 10'. HORIZONTAL SUPPORTS TO BE EVERY 7' FOR INNER DUCT DIA 8" TO 18" AND EVERY 5' FOR INNER DUCT DIA 18" TO 24".
 - ADJUSTABLE DUCT OVERLAP TO BE NO LESS THAN 6" UNLESS INNER DIAMETER IS 8" (4" OVERLAP) OR 10" (5" OVERLAP).
 - 3/4" CLEARANCE TO COMBUSTIBLES IS FROM OUTER SHELL. V-BAND IS LISTED TO BE AGAINST SURFACE.

Duct run shown is for example purposes only. See mechanical plans for additional information.

Additional information including installation manual available at www.captiveaire.com.



DOUBLE WALL FACTORY BUILT DUCTWORK

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL.
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

HORIZONTAL	
DUCT DIAMETER	SUPPORT SPACING (ft)
8"	7'
10"	7'
12"	7'
14"	7'
16"	7'
18"	5'
20"	5'
22"	5'
24"	5'

TYPE	VERTICAL		
	WALL SUPPORT (ft)	CURB SUPPORT (ft)	FLOOR SUPPORT (ft)
2R & 2R HT	20'	24'	24'
3R	10'	24'	24'
3Z	10'	24'	24'

SINGLE WALL FACTORY BUILT DUCTWORK

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE INSTALLATION AND OPERATION MANUAL.
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

DUCT DIAMETER	HORIZONTAL SUPPORT (ft)	VERTICAL WALL SUPPORT (ft)	VERTICAL CURB SUPPORT (ft)
8"	10'	10'	24'
10"	10'	10'	24'
12"	10'	10'	24'
14"	10'	10'	24'
16"	10'	10'	24'
18"	10'	10'	24'
20"	10'	10'	24'
22"	10'	10'	24'
24"	10'	10'	24'

GREASE DUCT SPECIFICATIONS:
 PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW" ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "DW" IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "DW" DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURES INSTALLATION GUIDE.
 PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURES LISTING MODEL "DW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12". DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS.

IF THE DUCT IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 LISTED DOUBLE WALL GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW- 2R, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

CAPTIVEAIRE SYSTEMS RECOMMENDS THE USE OF LISTED, PRE-FABRICATED ROUND GREASE EXHAUST DUCT TO REDUCE STATIC PRESSURE IN THE SYSTEM, MINIMIZE INSTALLATION AND INSPECTION TIMES, AND ENSURE DUCT IS LIQUID TIGHT

The Double Wall Ductwork Series has been certified by ITS. This certification mark indicates that the product has been tested to and has met the minimum requirements of a widely recognized (consensus) U.S. Product safety standard, that the manufacturing site has been audited, and that the applicant has agreed to a program of periodic factory follow-up inspections to verify continued performance.

Models DW-2R and DW-3R are ETL Listed under file number 1000082319SAT-006 EEV and comply with UL1978 and UL2221 Standards.

Model DW-3Z is ETL Listed under file number 1000082319SAT-006 EEV and complies with UL1978, UL2221 and CAN/ULC-S144 Standards.

DOUBLE WALL GREASE DUCT WRITTEN SPECIFICATION

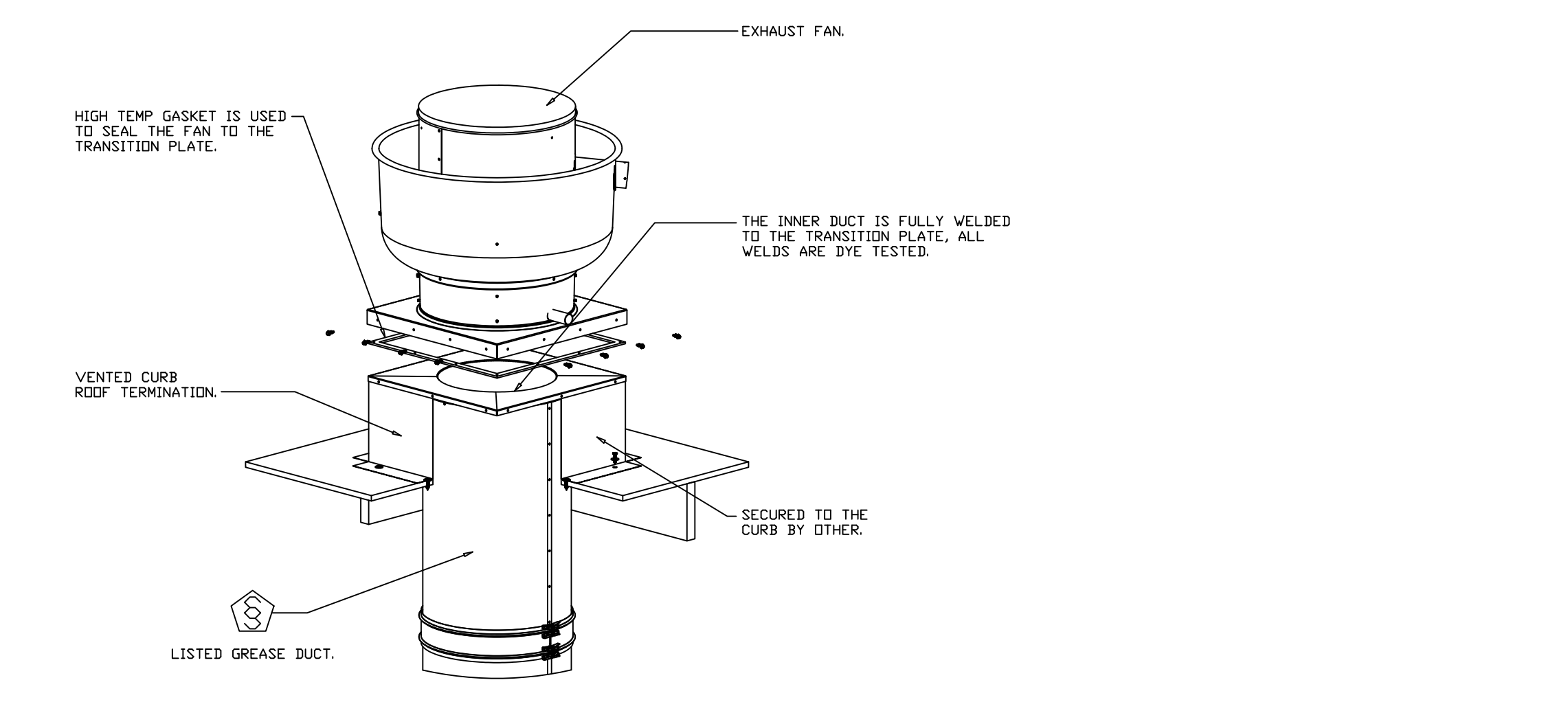
Furnish double wall, factory built grease duct for use with Type I kitchen hoods, which conforms to the requirements of NFPA-96. Products shall be ETL listed to UL-1978 and UL-2221 for venting air and grease vapors from commercial cooking operation. Models DW-2R, 3R and 3Z are used for grease duct applications when installed in accordance with these instructions and National Fire Protection Association "NFPA 96", Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations. Double wall grease ducts are listed for a continuous internal temperature of 500 degrees F and intermittent temperatures of 2000 degrees F.

The duct sections shall be constructed of an inner duct wall and an outer wall with insulation in between. The inner duct wall shall be constructed of .036 inch thick, 430 type stainless steel and be available in diameters 8" through 24". The outer wall shall be constructed of stainless steel at a minimum of .024 inch thickness. The duct, based on model number, shall include layers of Super Wool 607 Plus insulation between the inner and outer wall. Grease duct joints shall be held together by means of formed V clamps and sealed with 3M Fire Barrier 2000+. The duct wall assembly shall be tested and listed at 3/4" or zero inch clearance, according to classifications.

Classifications and Clearances

UL 2221: Standard for Fire Resistive Grease Duct Enclosure Assemblies. Chapter 7 of this standard references a test labeled Internal Fire Test. Section 7.1.1 references two installation conditions, Condition A and Condition B. Condition A represents all installation condition except for installation within non-ventilated combustible enclosures. Condition B represents installation within a non-ventilated combustible enclosure.

Model DW-2R is classified under UL2221 (Test of Fire Resistive Duct Enclosure Assemblies) as an alternate to 2-Hr. fire resistive shaft enclosures with a reduced clearance to combustibles (sizes 8" to 16" diameter). Model 2R is listed in accordance with the requirements for duct enclosure Condition B.



REVISIONS

NO.	DESCRIPTION	DATE

CAPTIVEAIRE

Los Angeles Office
 1810 14th St Suite 214, Santa Monica, CA 90404 PHONE: (310) 378-8805 FAX: 310 4779689 EMAIL: log@captivaire.com
www.captiveaire.com

SLICE HOUSE
 1938 First Street,
 Livermore, CA, 94550

DATE: 4/10/2025
 DW#:
 7464092
 DRAWN BY: brian81
 SCALE:
 3/4" = 1'-0"
 MASTER DRAWING

SHEET NO.
 3



SLICE HOUSE
 1948 FIRST STREET
 LIVERMORE, CA 94550

PROFICIENT ENGINEERING
 3150 Wilcomb Bridge Road
 Norcross, Georgia 30071
 404.330.9798

FOR CONSTRUCTION

DRAWN BY: SL
 CHECKED BY: PK

ISSUE / REVISIONS:

DATE	DESCRIPTION
5/15/2025	PERMIT
7/24/2025	PERMIT RESUBMISSION 1

SHEET NAME:
 KITCHEN HOOD PACKAGE

SHEET NUMBER:

M203

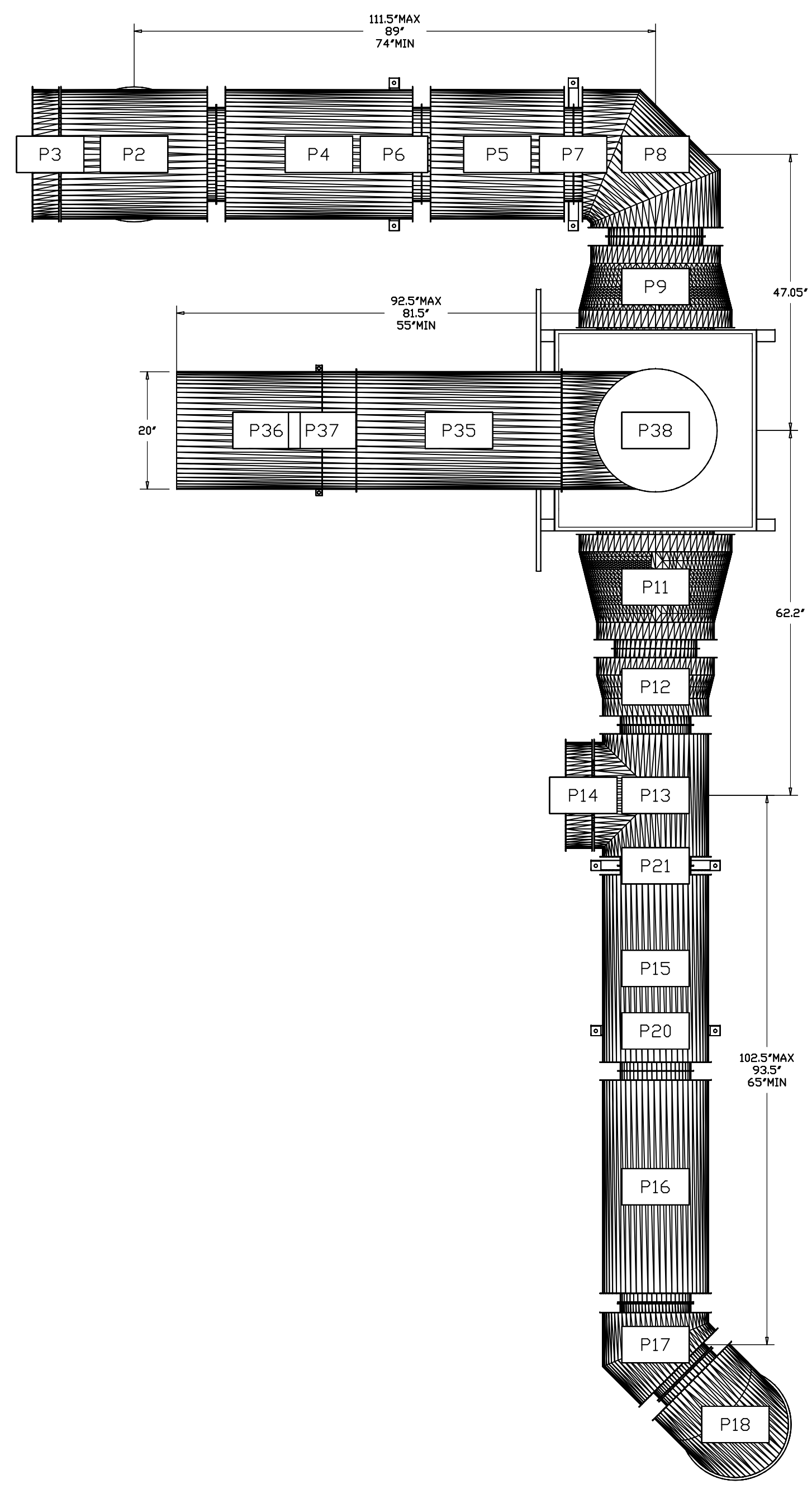
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DUCTWORK #1 PARTS - JOB#7464092 DOUBLE WALL											
TAG	PART #	CFM	GPM	ZONE	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION	
H1-E1	DW22DWRISER-3Z-S	2383					-0.8085	10.62	0.00	1	DOUBLE WALL RISER COVER - USED DN 16" INNER RISER, 4' LONG - 3 LAYERS ZERO CLEARANCE - 22" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.
H2-E1	DW18DWRISER-3Z-S	1467					-0.6795	8.59	0.00	1	DOUBLE WALL RISER COVER - USED DN 12" INNER RISER, 4' LONG - 3 LAYERS ZERO CLEARANCE - 18" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.
P1	DW1611DWLT-3Z-S	2383					-0.0042	19.43	1706.70	1	DOUBLE WALL DUCT - 16" INNER DUCT, 11' LONG - 3 LAYERS ZERO CLEARANCE - 22" STAINLESS STEEL OUTER SHELL.
P2	ASSEMBLED W/P3	2383		1			-0.1308	57.92	1706.70	1	DOUBLE WALL DUCT - 16" INNER TEE DUCT - 3 LAYERS ZERO CLEARANCE - 22" STAINLESS STEEL OUTER SHELL.
P3	ASSEMBLED W/P2 D=S							24.60		1	DOUBLE WALL DUCT - 16" INNER ACCESS DOOR & 22" ACCESS DOOR COVER WITH CLAMPS - 3 LAYERS ZERO CLEARANCE - 22" STAINLESS STEEL OUTER SHELL.
P4	DW1635DWLT-3Z-S	2383					-0.0133	63.66	1706.70	1	DOUBLE WALL DUCT - 16" INNER TEE DUCT, 35" LONG - 3 LAYERS ZERO CLEARANCE - 22" STAINLESS STEEL OUTER SHELL.
P5	DW1647DWAJD-3Z-S	2383					-0.0098	121.14	1706.70	1	DOUBLE WALL ADJUSTABLE DUCT - 16" INNER DUCT - 3 LAYERS ZERO CLEARANCE - 22" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11' / MAX LENGTH = 48.5' / ADJUSTMENT = 30.5' / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P6	DW2226SADKIT							8.80		1	DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 22" DD - INCLUDES UNI-STRUT CUT TO LENGTH, DW2226SAD, & HARDWARE BAG 4.
P7	DW2226SADKIT							8.80		1	DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 22" DD - INCLUDES UNI-STRUT CUT TO LENGTH, DW2226SAD, & HARDWARE BAG 4.
P8	DW1690DWASY-3Z-S	2383					-0.1221	48.21	1706.70	1	DOUBLE WALL DUCT - 16" INNER 90 DUCT - 3 LAYERS ZERO CLEARANCE - 22" STAINLESS STEEL OUTER SHELL.
P9	DW1620DWRNDADPEC3ASY17-3Z-S	2383					-0.0293	42.78	1706.70	1	DOUBLE WALL DUCT ECCENTRIC - 16" X 20" RNDRND ADAPTER - 17" TALL - 3 LAYERS ZERO CLEARANCE - 22" X 26" STAINLESS STEEL OUTER SHELL. STANDARD ADAPTER.
P10	DW20DWTEASY-3Z-S	3850		1			-0.4901	78.37	1764.71	1	DOUBLE WALL DUCT - 20" INNER TEE DUCT - 3 LAYERS ZERO CLEARANCE - 26" STAINLESS STEEL OUTER SHELL.
P11	DW1420DWRNDADPEC3ASY21-3Z-S	1467					-0.0649	52.03	1372.29	1	DOUBLE WALL DUCT ECCENTRIC - 14" X 20" RNDRND ADAPTER - 21" TALL - 3 LAYERS ZERO CLEARANCE - 20" X 26" STAINLESS STEEL OUTER SHELL. STANDARD ADAPTER.
P12	DW1214DWRNDADPEC3ASY13-3Z-S	1467					-0.0145	23.60	1867.84	1	DOUBLE WALL DUCT ECCENTRIC - 12" X 14" RNDRND ADAPTER - 13" TALL - 3 LAYERS ZERO CLEARANCE - 18" X 20" STAINLESS STEEL OUTER SHELL. STANDARD ADAPTER.
P13	ASSEMBLED W/P14	1467		1			-0.0145	40.14	1867.84	1	DOUBLE WALL DUCT - 12" INNER TEE DUCT - 3 LAYERS ZERO CLEARANCE - 18" STAINLESS STEEL OUTER SHELL.
P14	ASSEMBLED W/P13 D=T							17.08		1	DOUBLE WALL DUCT - 12" INNER ACCESS DOOR & 18" ACCESS DOOR COVER WITH CLAMPS - 3 LAYERS ZERO CLEARANCE - 18" STAINLESS STEEL OUTER SHELL.
P15	DW1235DWLT-3Z-S	1467					-0.0212	50.35	1867.84	1	DOUBLE WALL DUCT - 12" INNER TEE DUCT, 35" LONG - 3 LAYERS ZERO CLEARANCE - 18" STAINLESS STEEL OUTER SHELL.
P16	DW1247DWAJD-3Z-S	1467					-0.0239	98.31	1867.84	1	DOUBLE WALL ADJUSTABLE DUCT - 12" INNER DUCT - 3 LAYERS ZERO CLEARANCE - 18" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11' / MAX LENGTH = 48.5' / ADJUSTMENT = 30.5' / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P17	DW1245DWASY-3Z-S	1467					-0.1288	19.81	1867.84	1	DOUBLE WALL DUCT - 12" INNER 45 DUCT - 3 LAYERS ZERO CLEARANCE - 18" STAINLESS STEEL OUTER SHELL.
P18	DW1290DWASY-3Z-S	1467					-0.1675	32.93	1867.84	1	DOUBLE WALL DUCT - 12" INNER 90 DUCT - 3 LAYERS ZERO CLEARANCE - 18" STAINLESS STEEL OUTER SHELL.
P19	DW1211DWLT-3Z-S	1467					-0.0067	15.58	1867.84	1	DOUBLE WALL DUCT - 12" INNER DUCT, 11' LONG - 3 LAYERS ZERO CLEARANCE - 18" STAINLESS STEEL OUTER SHELL.
P20	DW1822SADKIT							7.25		1	DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 18" DD - INCLUDES UNI-STRUT CUT TO LENGTH, DW1822SAD, & HARDWARE BAG 4.
P21	DW1822SADKIT							7.25		1	DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 18" DD - INCLUDES UNI-STRUT CUT TO LENGTH, DW1822SAD, & HARDWARE BAG 4.
P22	DW2047DWLT-3Z-S	3850					-0.0114	103.73	1764.71	1	DOUBLE WALL DUCT - 20" INNER DUCT, 47" LONG - 3 LAYERS ZERO CLEARANCE - 26" STAINLESS STEEL OUTER SHELL.
P23	DW2047DWLT-3Z-S	3850					-0.0114	103.73	1764.71	1	DOUBLE WALL DUCT - 20" INNER DUCT, 47" LONG - 3 LAYERS ZERO CLEARANCE - 26" STAINLESS STEEL OUTER SHELL.
P24	DW2047DWLT-3Z-S	3850					-0.0114	103.73	1764.71	1	DOUBLE WALL DUCT - 20" INNER DUCT, 47" LONG - 3 LAYERS ZERO CLEARANCE - 26" STAINLESS STEEL OUTER SHELL.
P25	DW2047DWLT-3Z-S	3850					-0.0114	103.73	1764.71	1	DOUBLE WALL DUCT - 20" INNER DUCT, 47" LONG - 3 LAYERS ZERO CLEARANCE - 26" STAINLESS STEEL OUTER SHELL.
P26	DW2047DWLT-3Z-S	3850					-0.0114	103.73	1764.71	1	DOUBLE WALL DUCT - 20" INNER DUCT, 47" LONG - 3 LAYERS ZERO CLEARANCE - 26" STAINLESS STEEL OUTER SHELL.
P27	DW2035DWLT-3Z-S	3850					-0.0085	77.15	1764.71	1	DOUBLE WALL DUCT - 20" INNER DUCT, 35" LONG - 3 LAYERS ZERO CLEARANCE - 26" STAINLESS STEEL OUTER SHELL.
P28	DW2047DWAJD-3Z-S	3850					-0.0065	144.57	1764.71	1	DOUBLE WALL ADJUSTABLE DUCT - 20" INNER DUCT - 3 LAYERS ZERO CLEARANCE - 26" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11' / MAX LENGTH = 48.5' / ADJUSTMENT = 30.5' / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P29	DW26DWVESU							119.34		1	DOUBLE WALL DUCT VERTICAL SUPPORT KIT, 26" SHELL, FOR REDUCED AND ZERO CLEARANCE. PARTS ARE ZINC COATED. HARDWARE KIT #7 FOR ASSEMBLY. MOUNTING HARDWARE SOLD SEPARATELY PER WALL CONSTRUCTION.
P30	ASSEMBLED W/P31	3850					-0.011	101.22	1764.71	1	DOUBLE WALL DUCT - 20" INNER DUCT, 45.5" LONG - 3 LAYERS ZERO CLEARANCE - 26" STAINLESS STEEL OUTER SHELL - USED WITH TRANSITION PLATE.
P31	ASSEMBLED W/P30 D=B,P32 D=T	3850						21.88	1764.71	1	DUCT TO CURB TRANSITION DOWN TURN, 31-1/2" CURB TO 20" DUCT, 16 GA ALUMINIZED. NON-STANDARD PART. NOT FOR USE WITH EXHAUST FANS.
P32	ASSEMBLED W/P31	3850					-0.001	3.21	1764.71	1	SINGLE WALL DUCT 20" DIAMETER, 4' LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P33	DW2018AJDKIT	3850					-0.0021	16.46	1764.71	1	SINGLE WALL DUCT ADJUSTABLE, 20" DIAMETER, 17.5" LONG, FLANGE AT ONE END WITH A 20" ADJUSTABLE COLLAR - STAINLESS STEEL.
P34	ASSEMBLED W/P38	3850		1			-0.101	26.16	1764.71	1	SINGLE WALL DUCT TEE, 20" DUCT, ASSEMBLY.
P35	DW2035LT	3850					-0.0085	23.51	1764.71	1	SINGLE WALL DUCT 20" DIAMETER, 35" LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
SYSTEM AT P35							-1.8111	0.00			
P36	DW2048AJDKIT	3850					-0.0074	37.95	1764.71	1	SINGLE WALL DUCT ADJUSTABLE, 20" DIAMETER, 47.5" LONG, FLANGE AT ONE END WITH A 20" ADJUSTABLE COLLAR - STAINLESS STEEL.
SYSTEM AT P36							-1.8111	0.00			
P37	DW20SUBRASY							3.58		1	DUCT SUPPORT BRACKET KIT, 20" DUCT, USED FOR HANGING DUCT. 12 GA STEEL, CLEAR ZINC COATING - 2 RINGS, 4 BRACKETS, & HARDWARE BAG 2.
P38	ASSEMBLED W/P34 D=S							6.59		1	DUCT ACCESS DOOR WITH HANDLE & GREASE DAM, FOR 20" DUCT USE 21" DOOR. STAINLESS STEEL.
RC1	DW22DWRISER-3Z-S							10.62		1	DOUBLE WALL RISER COVER - USED DN 16" INNER RISER, 4' LONG - 3 LAYERS ZERO CLEARANCE - 22" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.
RC2	DW18DWRISER-3Z-S							8.59		1	DOUBLE WALL RISER COVER - USED DN 12" INNER RISER, 4' LONG - 3 LAYERS ZERO CLEARANCE - 18" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.
	3M-2000PLUS							0.80		9	DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.
	DW12DWCLASY-3Z-S							5.90		4	DUCT - 12" DUCT - 18" DOUBLE "V" CLAMP - 3Z INSULATION & SINGLE "V" CLAMP INCLUDED - ZERO CLEARANCE.
	DW14DWCLASY-3Z-S							6.54		1	DUCT - 14" DUCT - 20" DOUBLE "V" CLAMP - 3Z INSULATION & SINGLE "V" CLAMP INCLUDED - ZERO CLEARANCE.
	DW16DWCLASY-3Z-S							7.20		3	DUCT - 16" DUCT - 22" DOUBLE "V" CLAMP - 3Z INSULATION & SINGLE "V" CLAMP INCLUDED - ZERO CLEARANCE.
	DW20CLASY							1.41		6	DUCT "V" CLAMP WITH NEW DESIGN 14 GA BRACKETS, 20" DUCT, ASSEMBLY.
TAG	PART #	CFM	GPM	ZONE	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION	
	DW20DWCLASY-3Z-S							8.50		8	DUCT - 20" DUCT - 26" DOUBLE "V" CLAMP - 3Z INSULATION & SINGLE "V" CLAMP INCLUDED - ZERO CLEARANCE.
TOTAL WEIGHT								2112.13			

DUCTWORK #1 TOP VIEW



REVISIONS

NO.	DESCRIPTION	DATE

CAPTIVE

Los Angeles Office
1610 4th St Suite 214, Santa Monica, CA, 90404 PHONE: (310) 878-8666 FAX: (310) 4747888 EMAIL: info@captivemechanical.com www.captivemechanical.com

SLICE HOUSE
1938 First Street,
Livermore, CA, 94550

DATE: 4/10/2025
DWG.#: 7464092
DRAWN BY: brian81
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 4



SLICE HOUSE
1948 FIRST STREET
LIVERMORE, CA 94550

FOR CONSTRUCTION

DRAWN BY: SL	CHECKED BY: PK
ISSUE / REVISIONS:	
DATE	DESCRIPTION
5/15/2025	PERMIT
7/24/2025	PERMIT RESUBMISSION 1

SHEET NAME:
KITCHEN HOOD PACKAGE

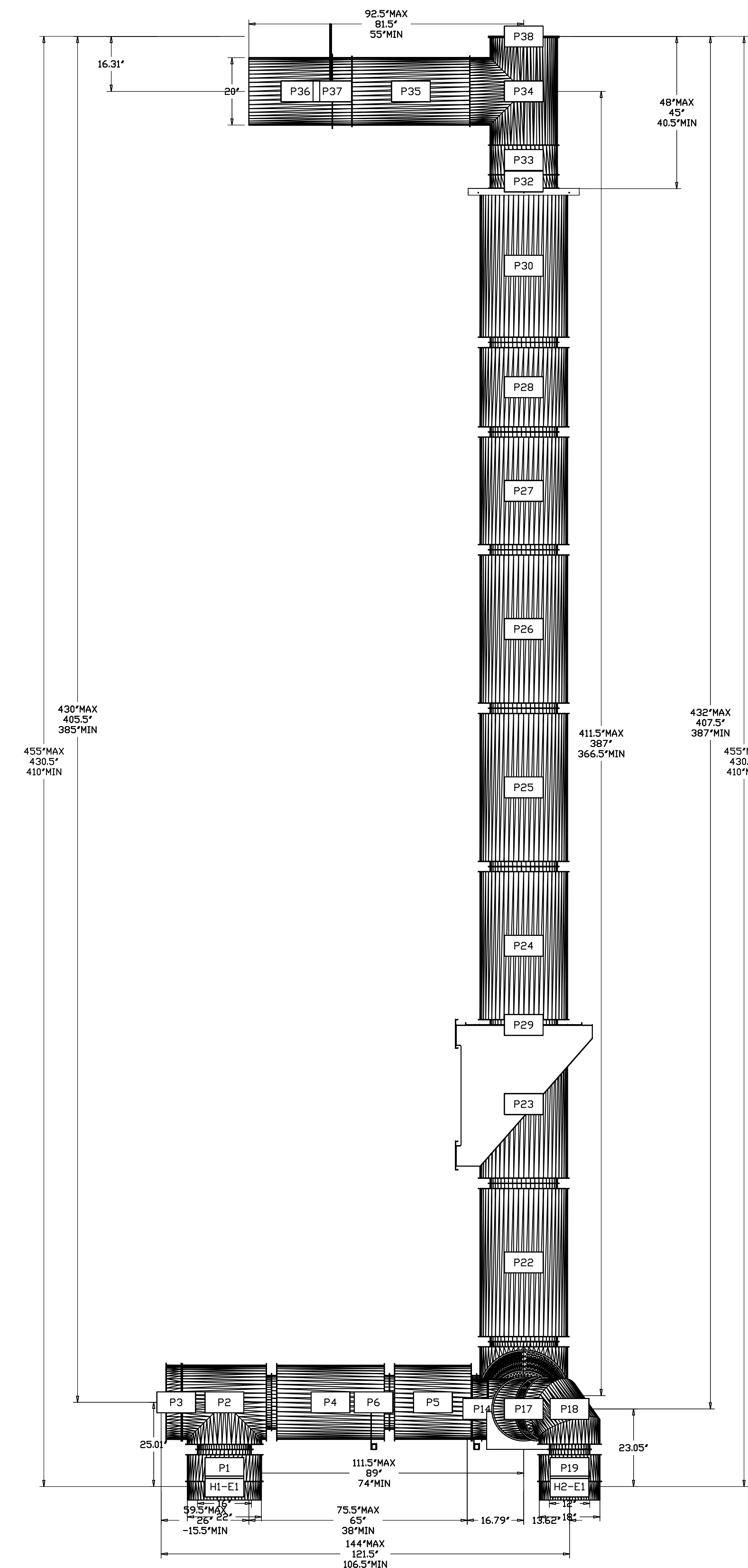
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05.15.25

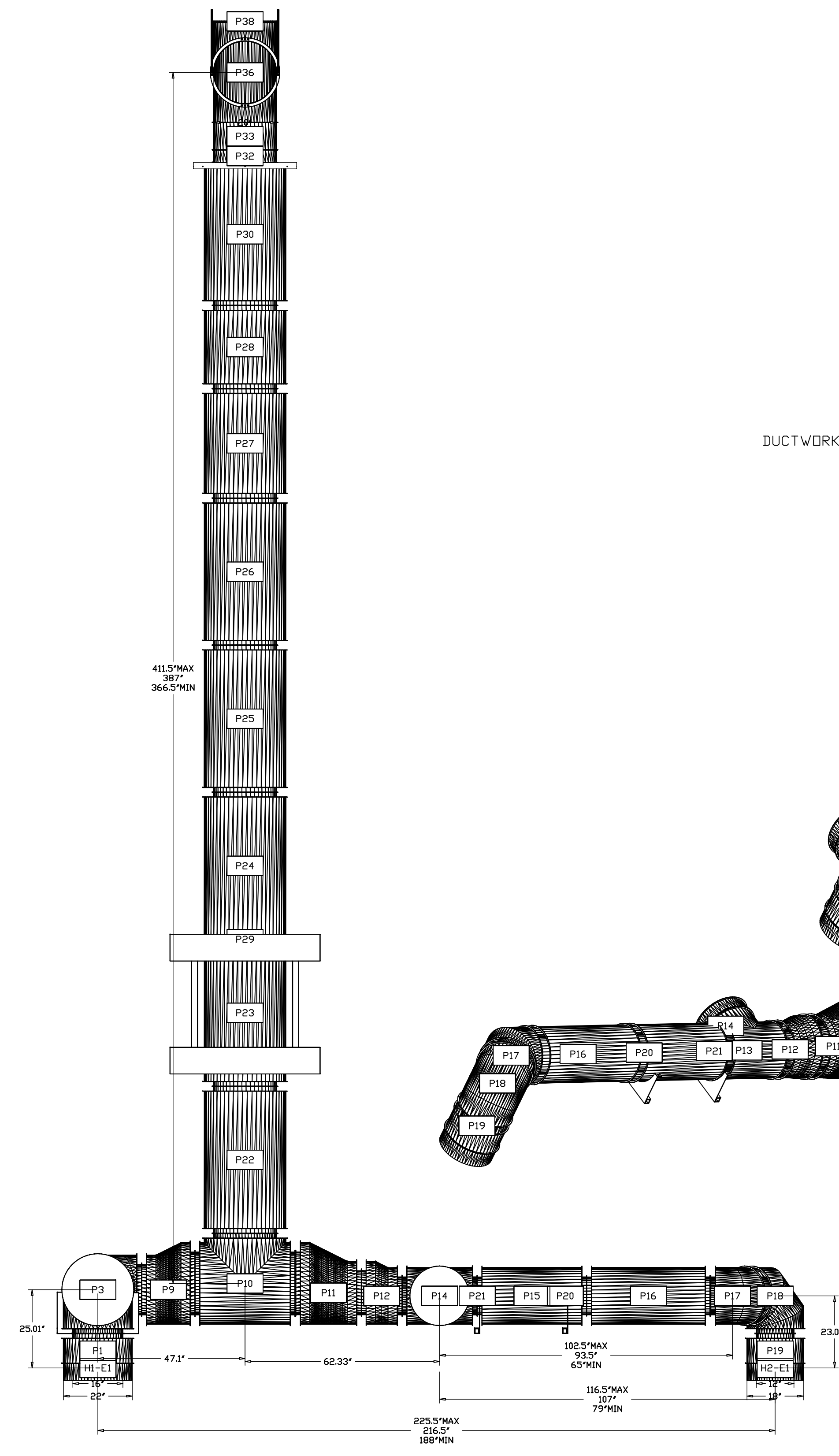
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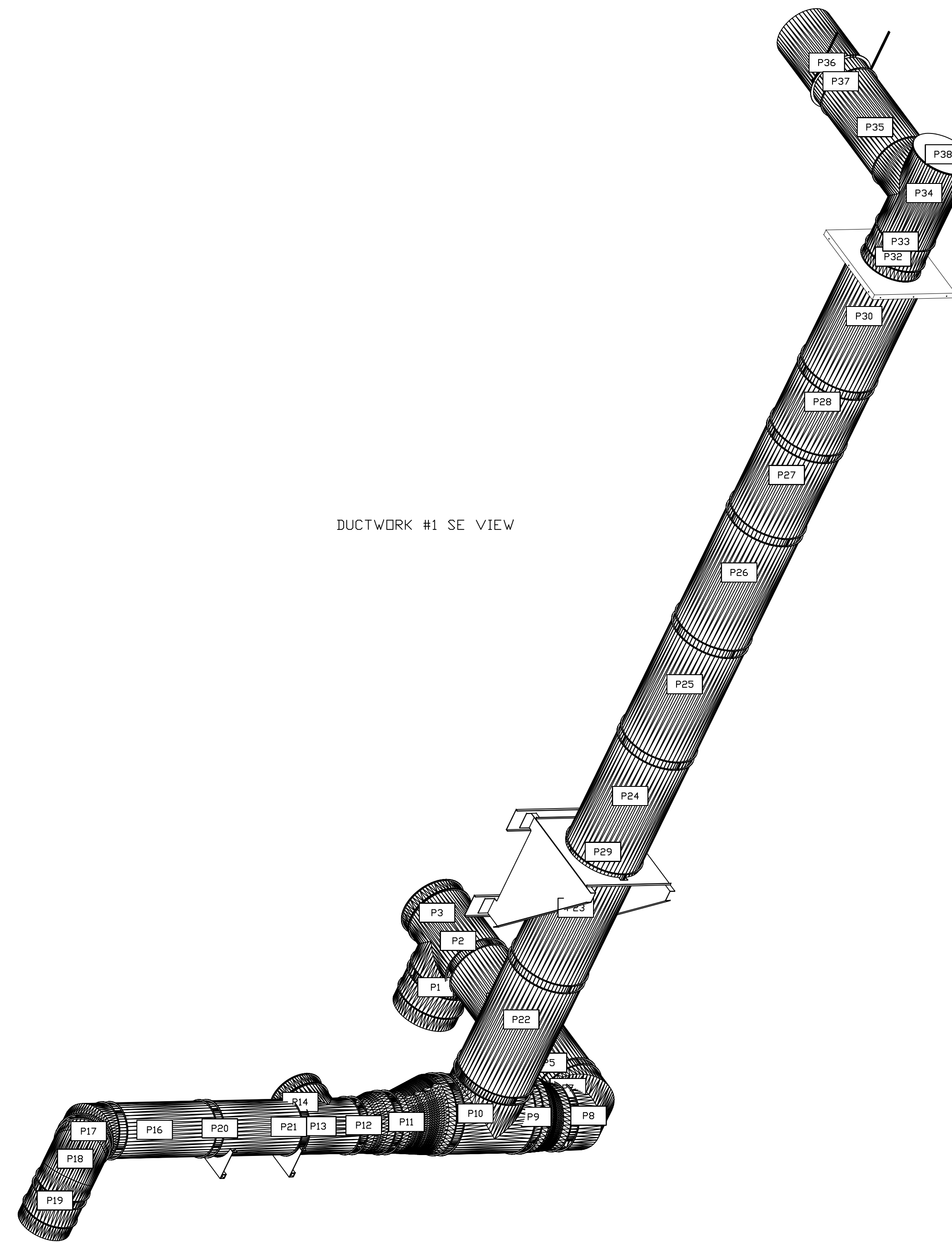
DUCTWORK #1 FRONT VIEW



DUCTWORK #1 SIDE VIEW



DUCTWORK #1 SE VIEW



REVISIONS	
DESCRIPTION	DATE

CAPTIVE
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SLICE HOUSE
 1938 First Street,
 Livermore, CA, 94550

DATE: 4/10/2025
 DWG#: 7464092
 DRAWN BY: brian81
 SCALE: 1/2" = 1'-0"
 MASTER DRAWING

SHEET NO. 5



SLICE HOUSE
 1948 FIRST STREET
 LIVERMORE, CA 94550

PROFICIENT ENGINEERING
 3130 Wilcomb Bridge Road
 Norcross, Georgia 30071
 404.330.9798

FOR CONSTRUCTION

DRAWN BY: SL
 CHECKED BY: PK

ISSUE / REVISIONS:

DATE	DESCRIPTION
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7/24/2025	PERMIT RESUBMISSION 1

SHEET NAME:
 KITCHEN HOOD PACKAGE

SHEET NUMBER:

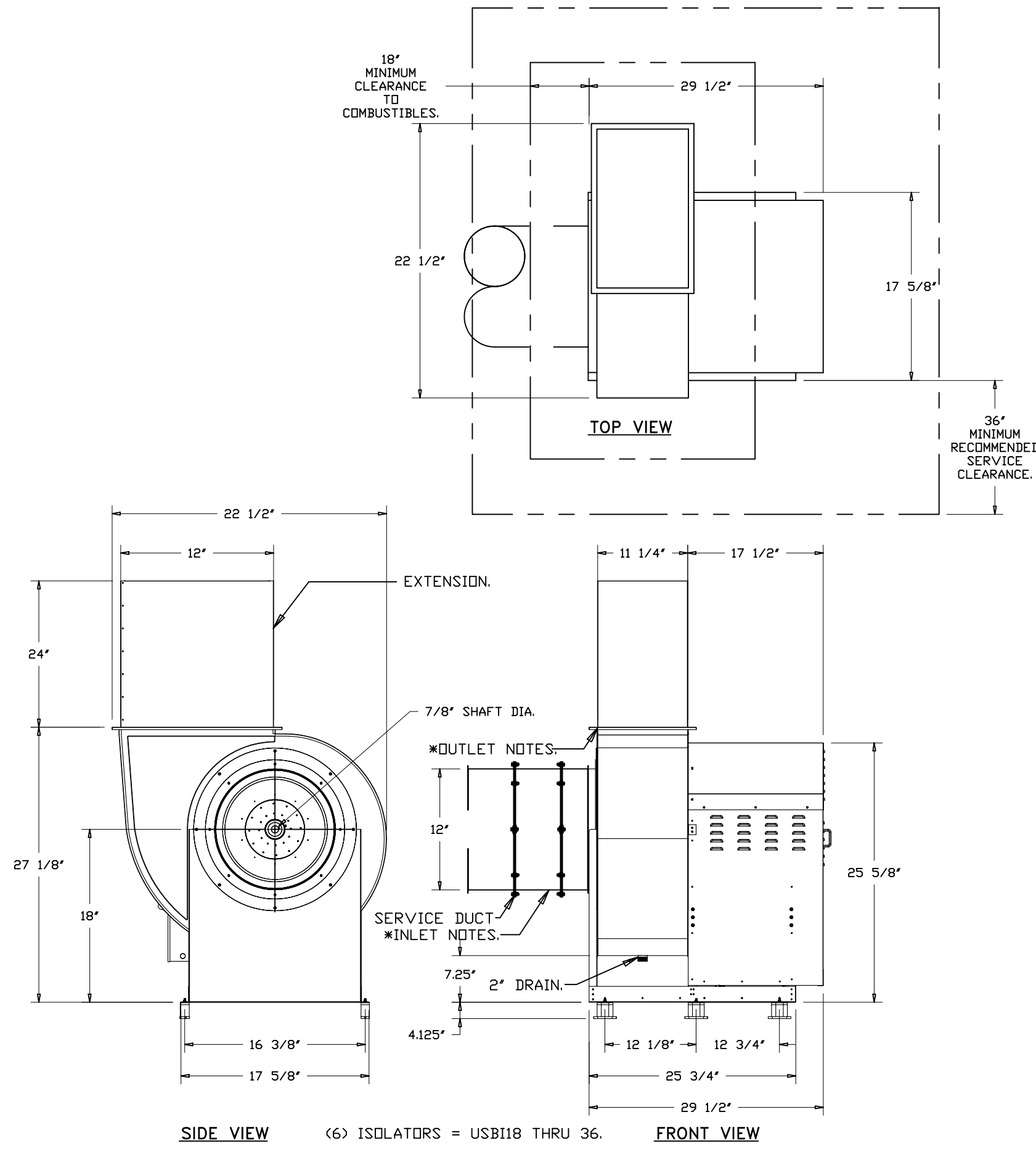
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05.15.25

GENERAL NOTE

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FAN #2_USB11DD-RM - EXHAUST FAN (KEF-2)



FEATURES:

- ROOF MOUNTED FANS.
- UL705
- UL752 AND ULC-S645 (RESTAURANT MODEL).
- HIGH HEAT OPERATION DIRECT DRIVE 350°F (176°C).
- HEAT SLINGER.
- NEMA 3R SAFETY DISCONNECT SWITCH.
- GREASE CLASSIFICATION TESTING.
- 2" DRAIN.
- MOTOR WEATHER COVER.
- FULLY SEALED SCROLL HOUSING.
- SCROLL ACCESS DOOR.
- FLANGE 1 1/4".

OPTIONS

- B11 - INLET SERVICE DUCT CONNECTION. USED TO CONNECT TO STANDARD 12" GREASE DUCT OR FIELD WELDED DUCT. INCLUDES (2) 7" RISERS BOLTED TO STANDARD INLET RISER.
- B11 - 24" DISCHARGE EXTENSION.
- B1 - DISCHARGE ORIENTATION VERTICAL UPPER LEFT = CW INLET SIDE.
- B11 - INLET CONNECTION STANDARD 12" FLANGED GREASE DUCT.
- 3 YEAR EXTENDED MOTOR WARRANTY.
- BLUE RUBBER VIBRATION ISOLATORS FOR BI UTILITY SETS (SET OF 6).
- ECM WIRING PACKAGE - EXHAUST - MODBUS CONTROL -MSC- (TELCD), CCW ROTATION.
- 2 YEAR PARTS WARRANTY.

* INLET/OUTLET NOTES:
LENGTH OF THE STRAIGHT DUCT ON THE INLET AND OUTLET TO BE 3 TIMES THE EQUIVALENT DUCT DIAMETER BEFORE CONNECTING TO ANY FITTINGS SUCH AS ELBOWS TO AVOID SYSTEM EFFECT.

UNIT PLAN VIEW CORNER WEIGHTS:
40 LBS

33 LBS

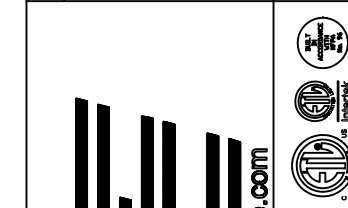
CORNER WEIGHTS ARE CALCULATED BASED ON VERTICAL DISCHARGE. SUPPORT DUCT PROPERLY BEFORE FAN TO ENSURE CORNER WEIGHTS ARE NOT AFFECTED.

64 LBS

46 LBS

NORMAL TEMPERATURE TEST DIRECT DRIVE EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 350°F (176°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

REVISIONS	
DESCRIPTION	DATE



www.captive.com

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CAPTIVE

SLICE HOUSE - Livermore, CA rev2

1938 First Street,
Livermore, CA, 94550

DATE: 7/29/2025

DWG# 7521231

DRAWN BY: T.Thai

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

MASTER DRAWING

SHEET NO. 2



SLICE HOUSE
1948 FIRST STREET
LIVERMORE, CA 94550

PROFICIENT ENGINEERING
3150 Wilcomb Bridge Road
Norcross, Georgia 30071
404.330.9798

FOR CONSTRUCTION

DRAWN BY: SL
CHECKED BY: PK

ISSUE / REVISIONS:

DATE	DESCRIPTION
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7/24/2025	PERMIT RESUBMISSION 1

SHEET NAME:
KITCHEN HOOD PACKAGE

SHEET NUMBER:

M206

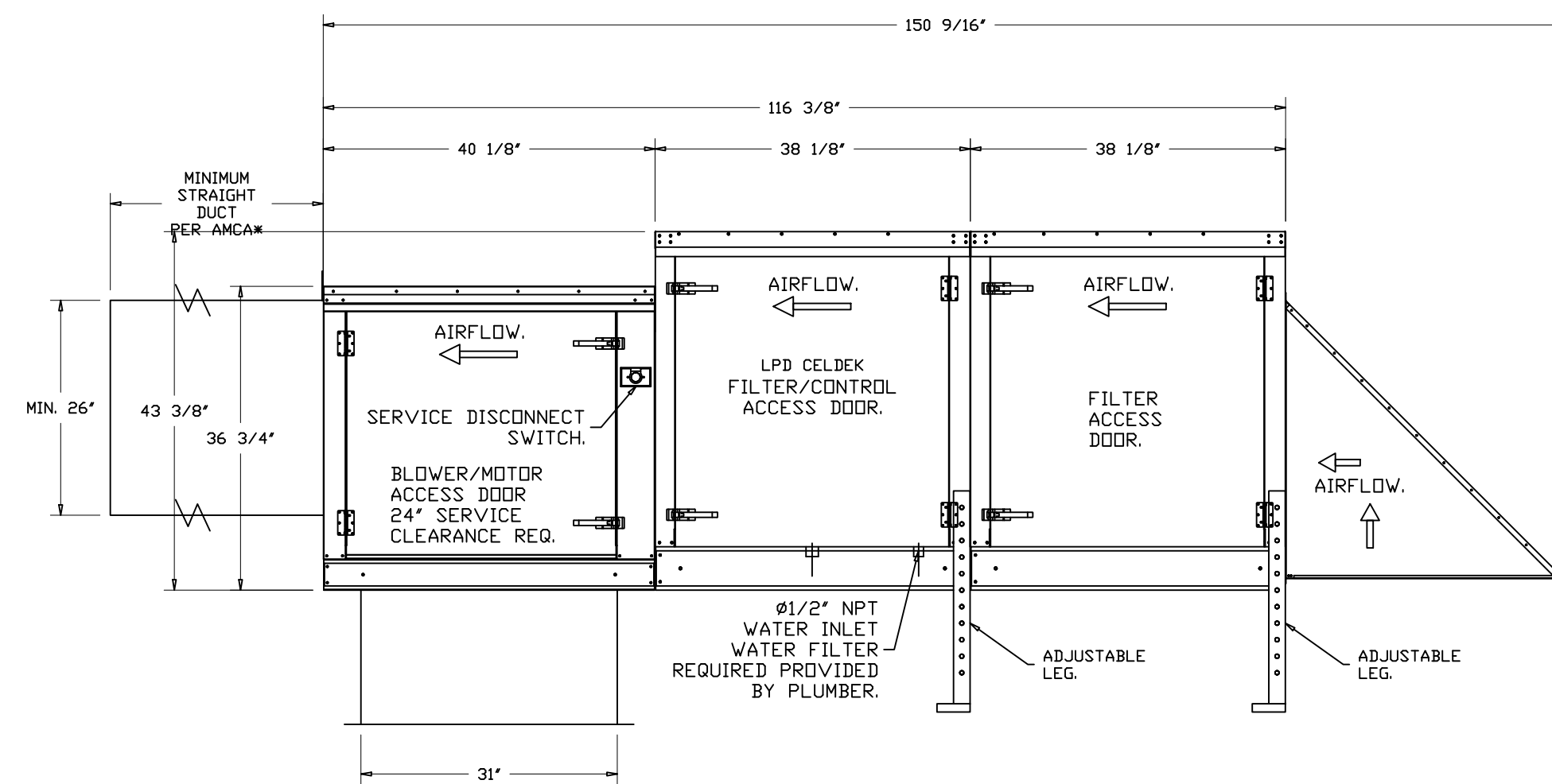
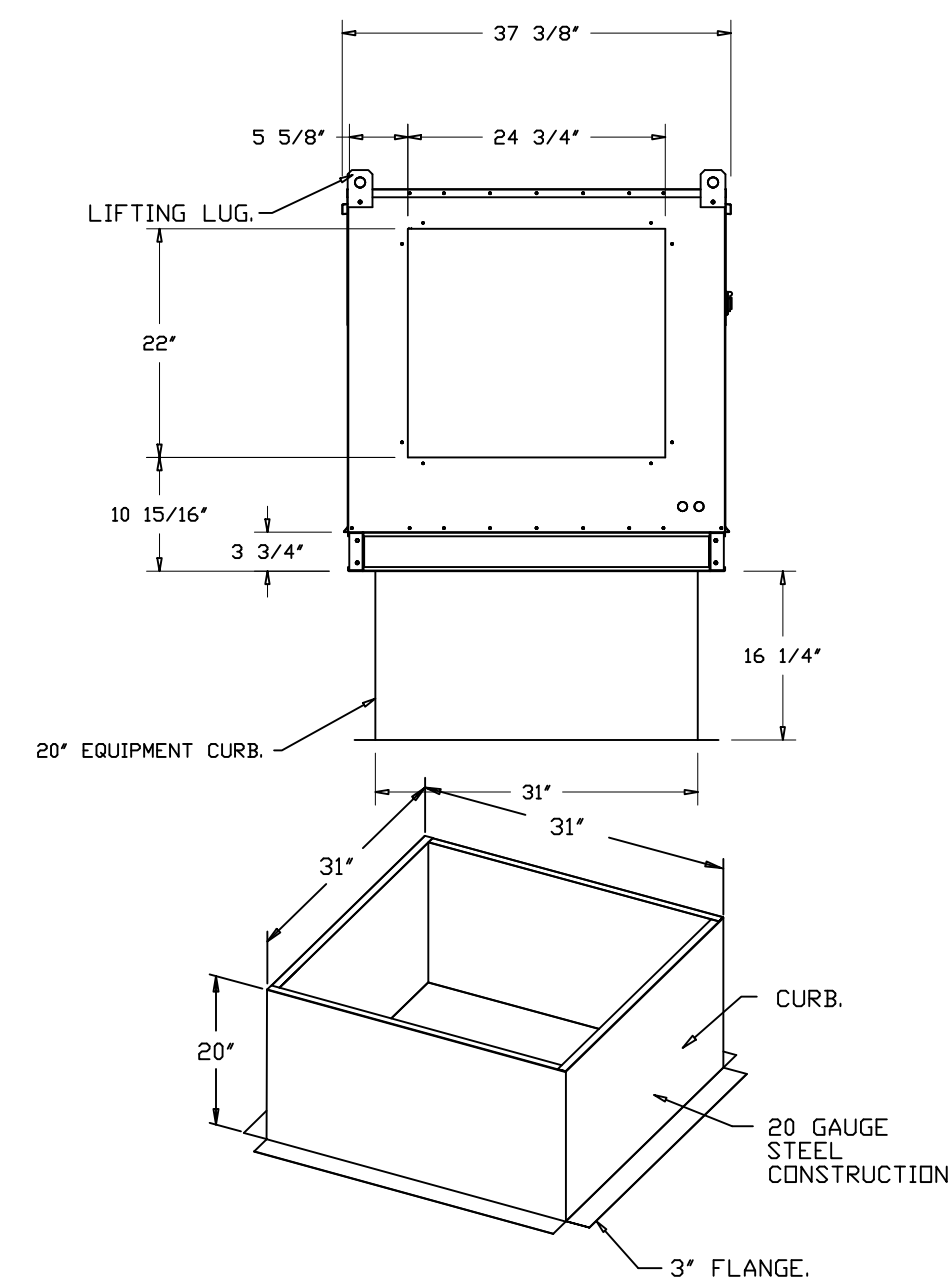
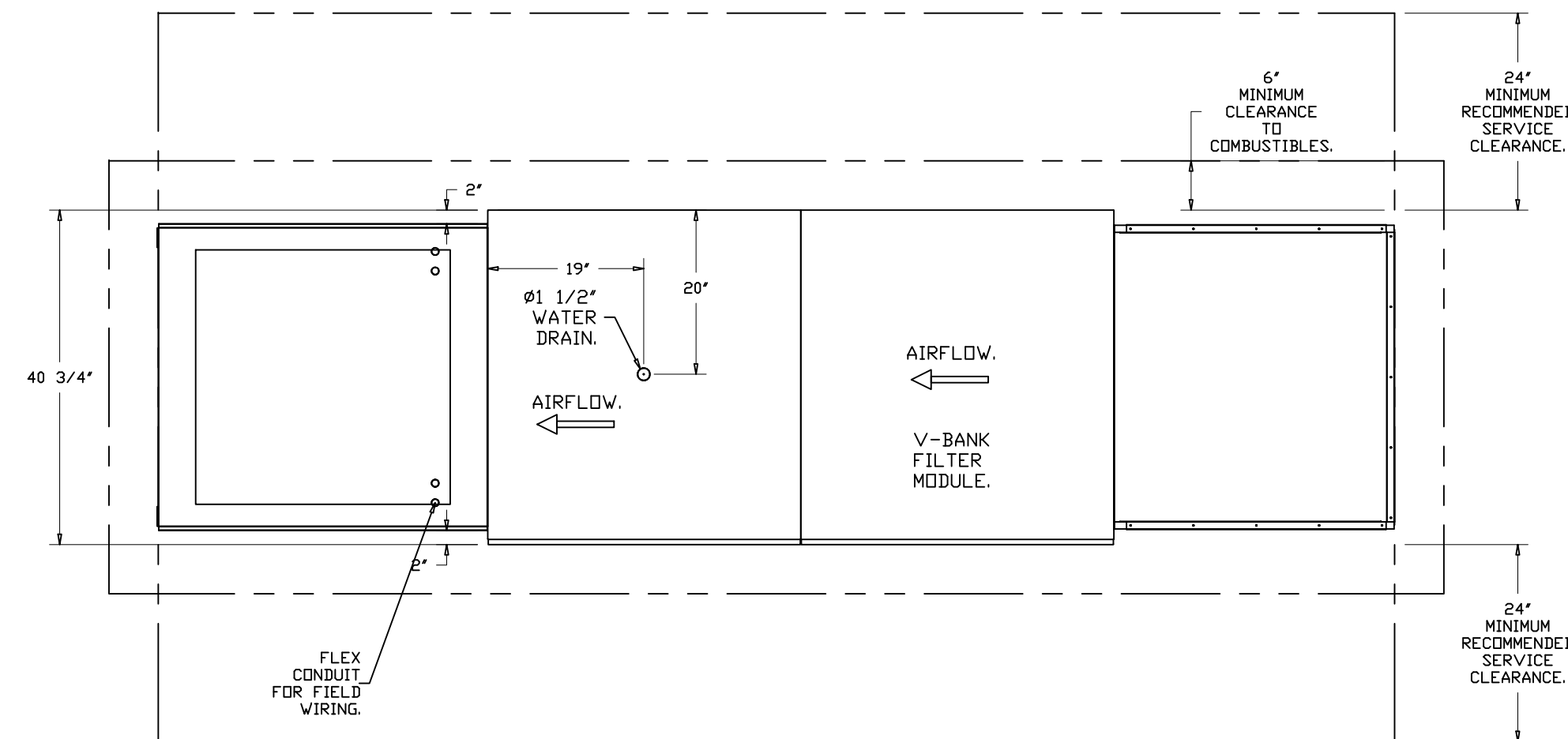
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GENERAL NOTE

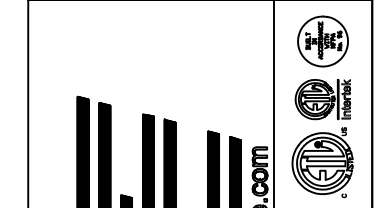
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- FAN #3 AP-20D - SUPPLY FAN (MUA-1)
- UNTEMPERED SUPPLY UNIT WITH 20" MIXED FLOW DIRECT DRIVE FAN IN SIZE #2 HOUSING.
 - EVAP COOLER (LPD CELDEKO) & V-BANK WITH 2" TA-13 FILTERS-OUTDOOR.
 - SIDE DISCHARGE - AIR FLOW RIGHT -> LEFT.
 - 120V WIRING CONNECTION TO ENERGIZE EVAPORATIVE COOLERS FROM UNTEMPERED SUPPLY FANS.
 - SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PREWIRE PANEL OR WITH DCV PACKAGE. PROVIDES SEPARATE 120VAC INPUT TO SUPPLY FAN. THIS 120V SIGNAL MUST BE RUN BY ELECTRICIAN FROM DCV TO MUA SWITCH.
 - MOUNT LOAD REACTOR IN FAN.
 - HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER/EVAP SECTION).
 - 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 200. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROTT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROTT/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 26" x 26".



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DESCRIPTION	DATE



CAPTIVE
 Central CA
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 www.captiveair.com

SLICE HOUSE - Livermore, CA rev2
 1938 First Street,
 Livermore, CA, 94550

DATE: 7/29/2025
 DWG.#: 7521231
 DRAWN BY: T.Thai
 SCALE: 3/4" = 1'-0"
 MASTER DRAWING
 SHEET NO. 3



SLICE HOUSE
 1948 FIRST STREET
 LIVERMORE, CA 94550

PROFICIENT ENGINEERING
 3150 Wilcomb Bridge Road
 Norcross, Georgia 30071
 404.330.9798

FOR CONSTRUCTION
 DRAWN BY: SL
 CHECKED BY: PK

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SHEET NAME:
 KITCHEN HOOD PACKAGE
 SHEET NUMBER:

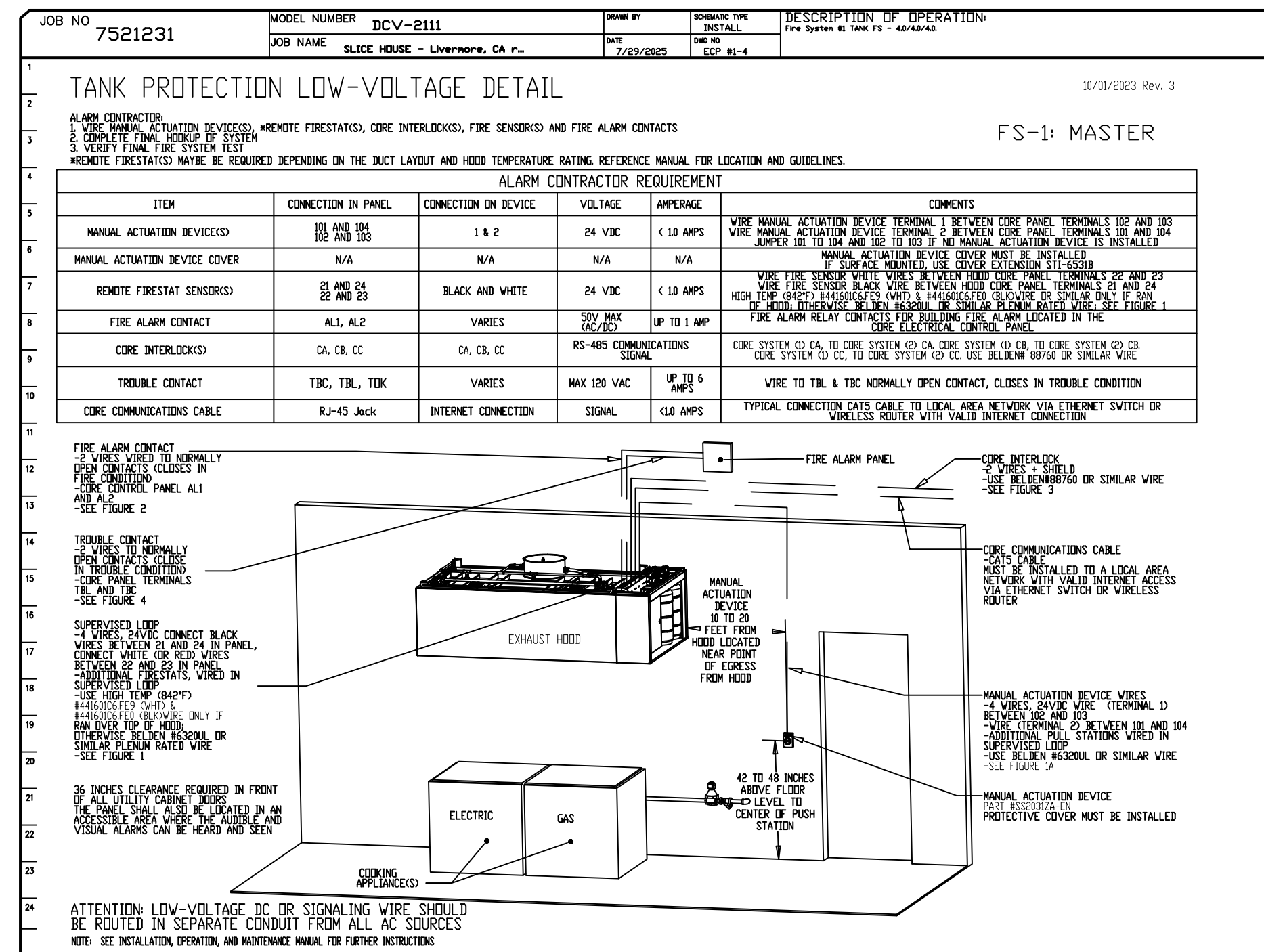
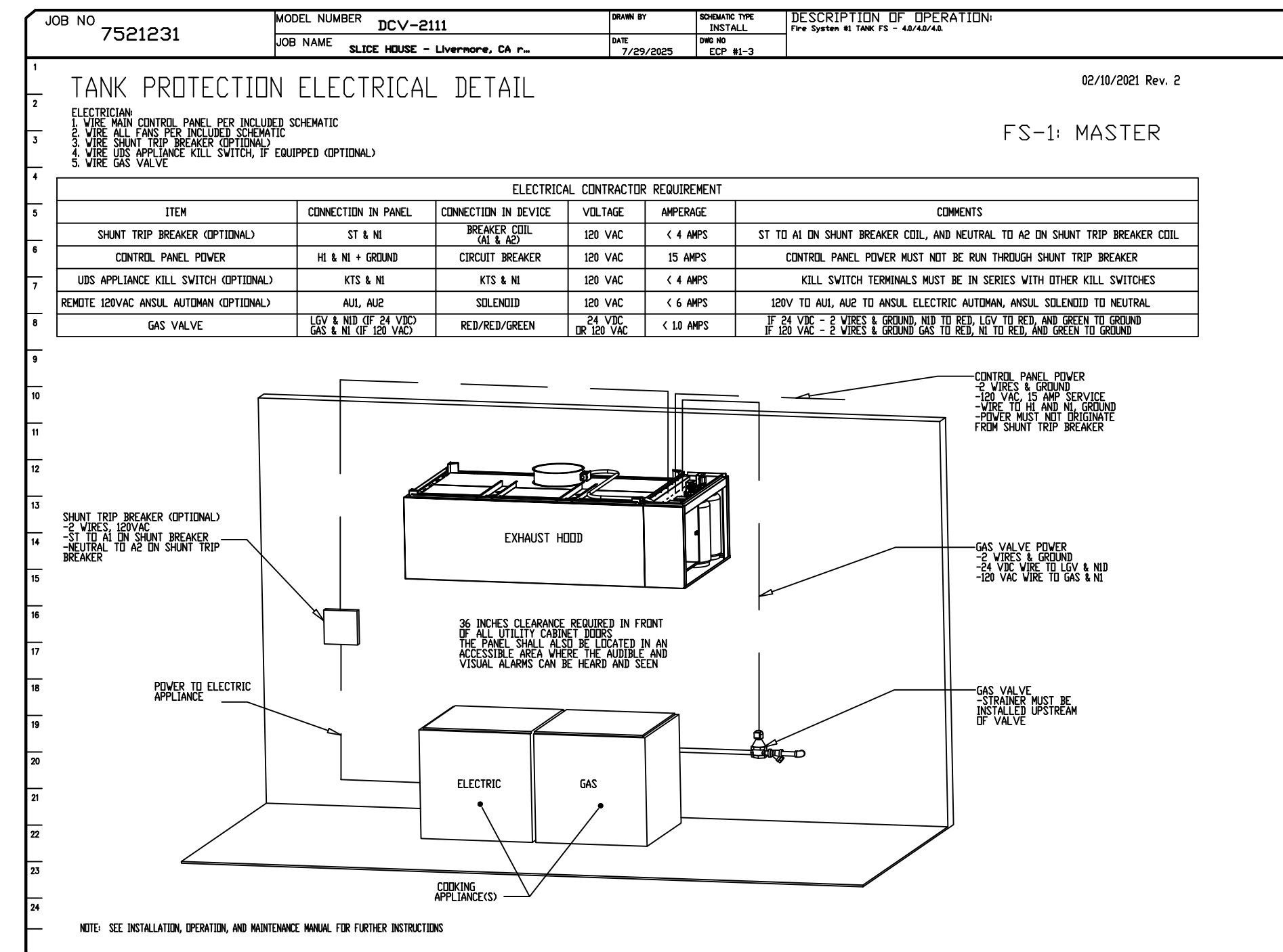
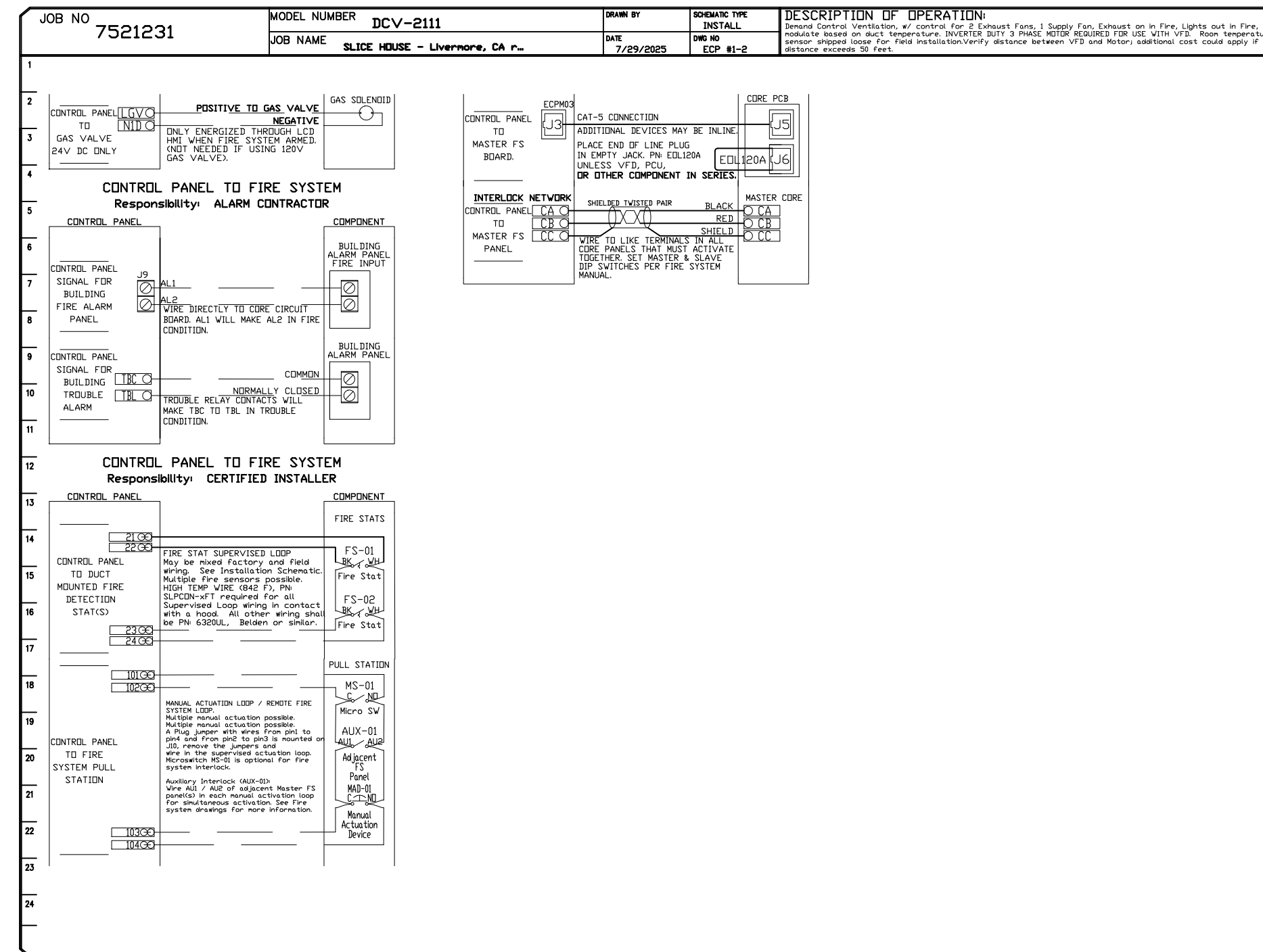
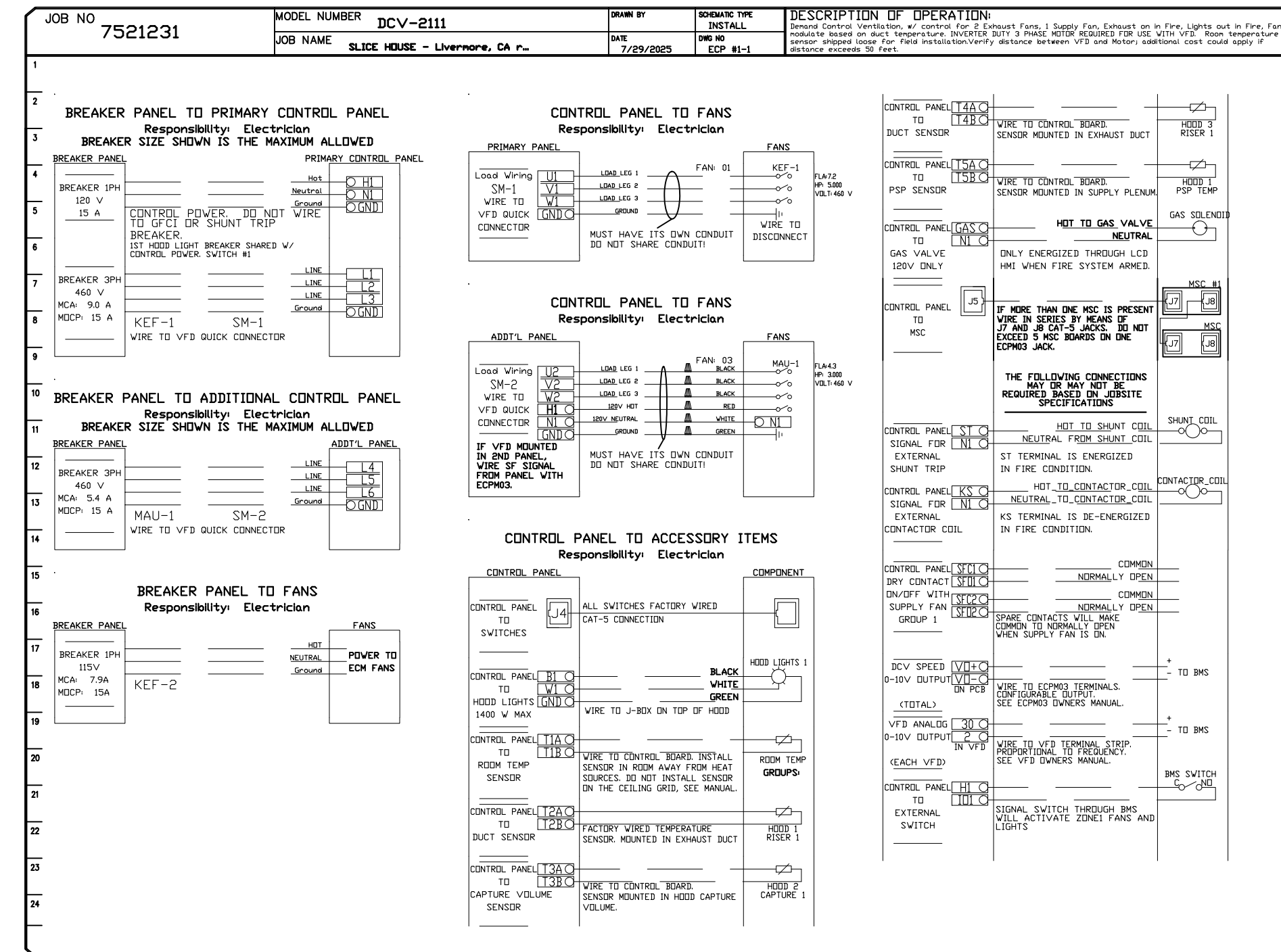
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GENERAL NOTE

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ELECTRICAL PACKAGE - JOB#7521231

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	HP	VOLTS	FLA	
1		DCV-2111	UTILITY CABINET RIGHT	UTILITY CABINET RIGHT	1 LIGHT	SMART CONTROLS DCV	KEF-1	EXHAUST	3	5,000	460	7.2
				HOOD # 1	1 FAN		MAU-1	SUPPLY	3	3,000	460	4.3



REVISIONS

NO.	DESCRIPTION	DATE

CAPTIVE

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SLICE HOUSE - Livermore, CA rev2
1938 First Street,
Livermore, CA, 94550

DATE: 7/29/2025
DRAWN BY: T.Thai
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 4



SLICE HOUSE
1948 FIRST STREET
LIVERMORE, CA 94550

PROFICIENT ENGINEERING
3150 Wilcomb Bridge Road
Norcross, Georgia 30071
404.330.9798

FOR CONSTRUCTION

DRAWN BY: SL
CHECKED BY: PK

ISSUE / REVISIONS:

DATE	DESCRIPTION
5/15/2025	PERMIT
7/24/2025	PERMIT RESUBMISSION 1

SHEET NAME:
KITCHEN HOOD PACKAGE

SHEET NUMBER:

M208
05.15.25

GENERAL NOTE

KITCHEN HOOD PACKAGE PROVIDED FOR REFERENCE ONLY. KITCHEN EQUIPMENT PROVIDER IS PROVIDING KITCHEN HOOD PACKAGE. MECHANICAL CONTRACTOR RESPONSIBLE FOR INSTALLATION AND ALL INTERCONNECTING DUCTWORK.

EXHAUST FAN INFORMATION - JOB#7521231

FAN UNIT NO.	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL.	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SDNES
1	KEF-1	1	DUR240HFA	CAPTIVEAIRE	3850	2.250	1070	DDP, PREMIUM	5.000	3.1040	3	460	7.2	875 FPM	309	24.3
2	KEF-2	1	USB11DD-RM	CAPTIVEAIRE	812	0.650	1435	TEAD-ECM	0.500	0.1830	1	115	6.3	866 FPM	182	7.7

MAU FAN INFORMATION - JOB#7521231

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	EVAP FLOW RATE (Gal/Hr)	EVAP COOLER ENTERING DB TEMP	EVAP COOLER ENTERING WB TEMP	EVAP COOLER LEAVING DB TEMP	EVAP COOLER LEAVING WB TEMP	WEIGHT (LBS)	SDNES
3	MAU-1	1	A2-20D	20MF-2-MDD	A2	1500	3730	0.750	1519	DDP, PREMIUM	3.000	1.8290	3	460	4.3	5.4A	15A	5.28	95.0°F	66.0°F	75.0°F	66.0°F	819	19.3

FAN ACCESSORIES

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

CURB ASSEMBLIES

NO	DN FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	KEF-1	71 LBS	CURB	31.500"W X 31.500"L X 20.000"H VENTED HINGED 16 GAUGE.
3	# 3	MAU-1	55 LBS	CURB	31.000"W X 31.000"L X 20.000"H.
	# 3			RAIL	4.000"W X 4.000"L X 36.000"H.
	# 3			RAIL	4.000"W X 4.000"L X 36.000"H.

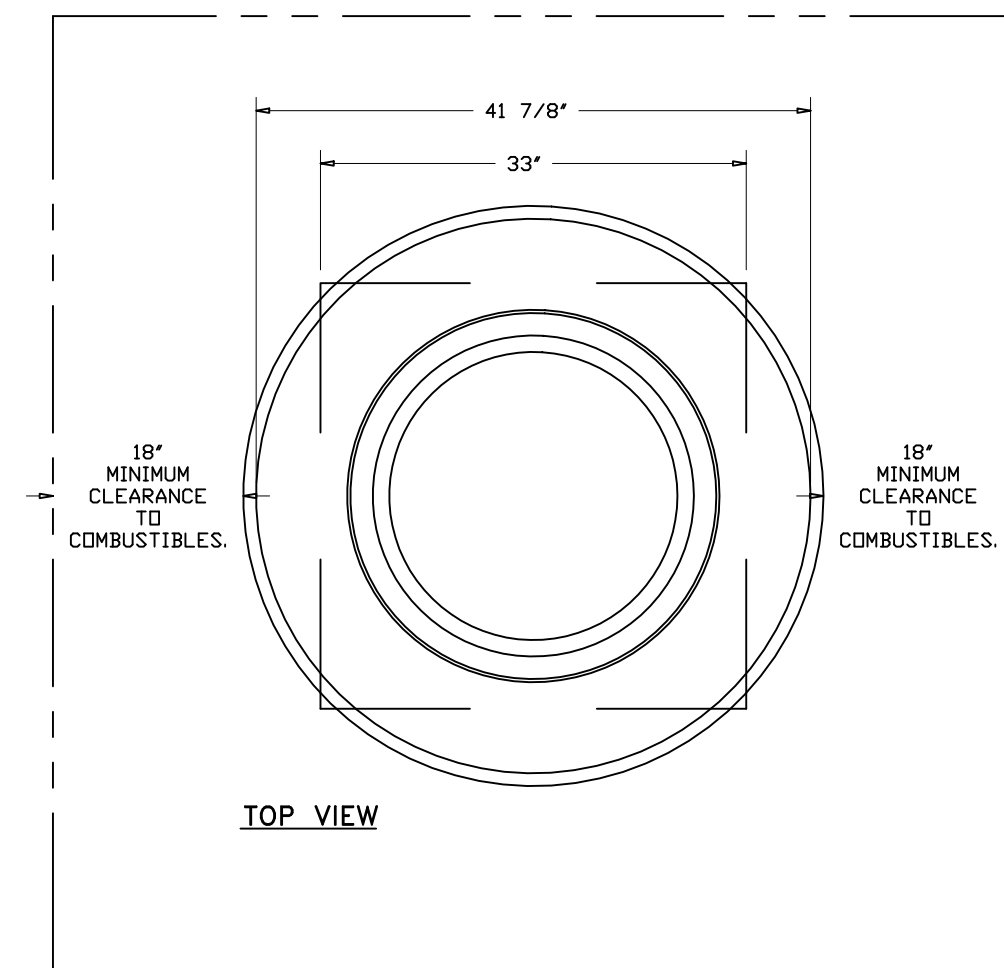
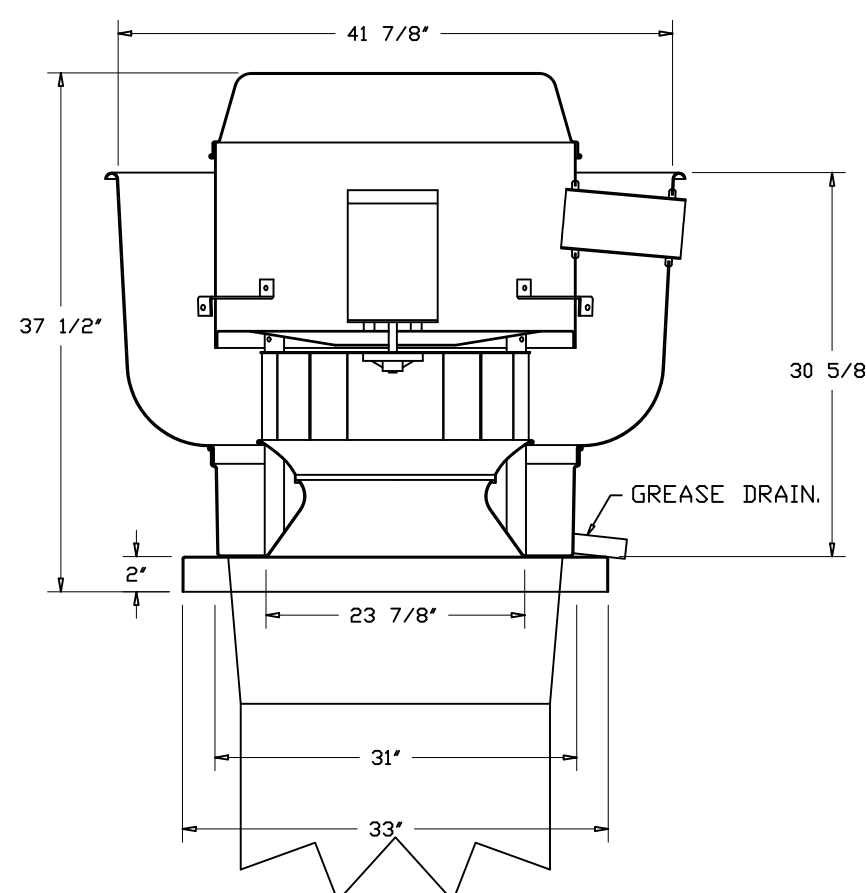
FAN SOUND DATA

FAN UNIT NO.	TAG	MOTOR	SOUND DATA				OCTAVE BAND SOUND DATA							
			LWA	SDNES @ 5 FT	DBA @ 5 FT	DISTANCE (FT)	63 HZ	125 HZ	250 HZ	500 HZ	1 KHZ	2 KHZ	4 KHZ	8 KHZ
1	KEF-1	EXHAUST	85.5	24.296413413600767	74	5	79	87.3	92.3	80.1	75	72.4	68.1	63.8
2	KEF-2	EXHAUST	68.9	7.683200536004506	57.4	5	68.1	73.4	70.9	67.3	63.1	57.8	51.9	45.9
3	MAU-1	SUPPLY	82.2	19.326115838112482	70.7	5	77.7	85.3	80.3	80.5	76.6	73.4	70.4	66.7

FAN OPTIONS

FAN UNIT NO.	TAG	QTY	DESCRIPTION
1	KEF-1	1	GREASE BOX
		1	FAN BASE CERAMIC SEAL - DU/DR240HFA - INSTALLED AT PLANT - FOR GREASE DUCTS
		1	LOAD REACTOR MOUNTED IN FAN
2	KEF-2	1	2 YEAR PARTS WARRANTY
		1	B111 - INLET SERVICE DUCT CONNECTION. USED TO CONNECT TO STANDARD 12" GREASE DUCT OR FIELD WELDED DUCT. INCLUDES (2) 7" RISERS BOLTED TO STANDARD INLET RISER
		1	B111 - 24" DISCHARGE EXTENSION
		1	BI - DISCHARGE ORIENTATION VERTICAL UPPER LEFT - CW INLET SIDE
		1	B111 - INLET CONNECTION STANDARD 12" FLANGED GREASE DUCT
		1	3 YEAR EXTENDED MOTOR WARRANTY
		1	BLUE RUBBER VIBRATION ISOLATORS FOR BI UTILITY SETS (SET OF 6)
		1	ECM WIRING PACKAGE - EXHAUST - MODBUS CONTRL -M3C- (TELCD), CCW ROTATION
		1	2 YEAR PARTS WARRANTY
		1	EVAPORATIVE COOLER WIRING HARNESS
3	MAU-1	1	SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) - THREE PHASE ONLY
		1	LOAD REACTOR MOUNTED IN FAN
		1	2 YEAR PARTS WARRANTY

FAN #1 DUR240HFA - EXHAUST FAN (KEF-1)



FEATURES:

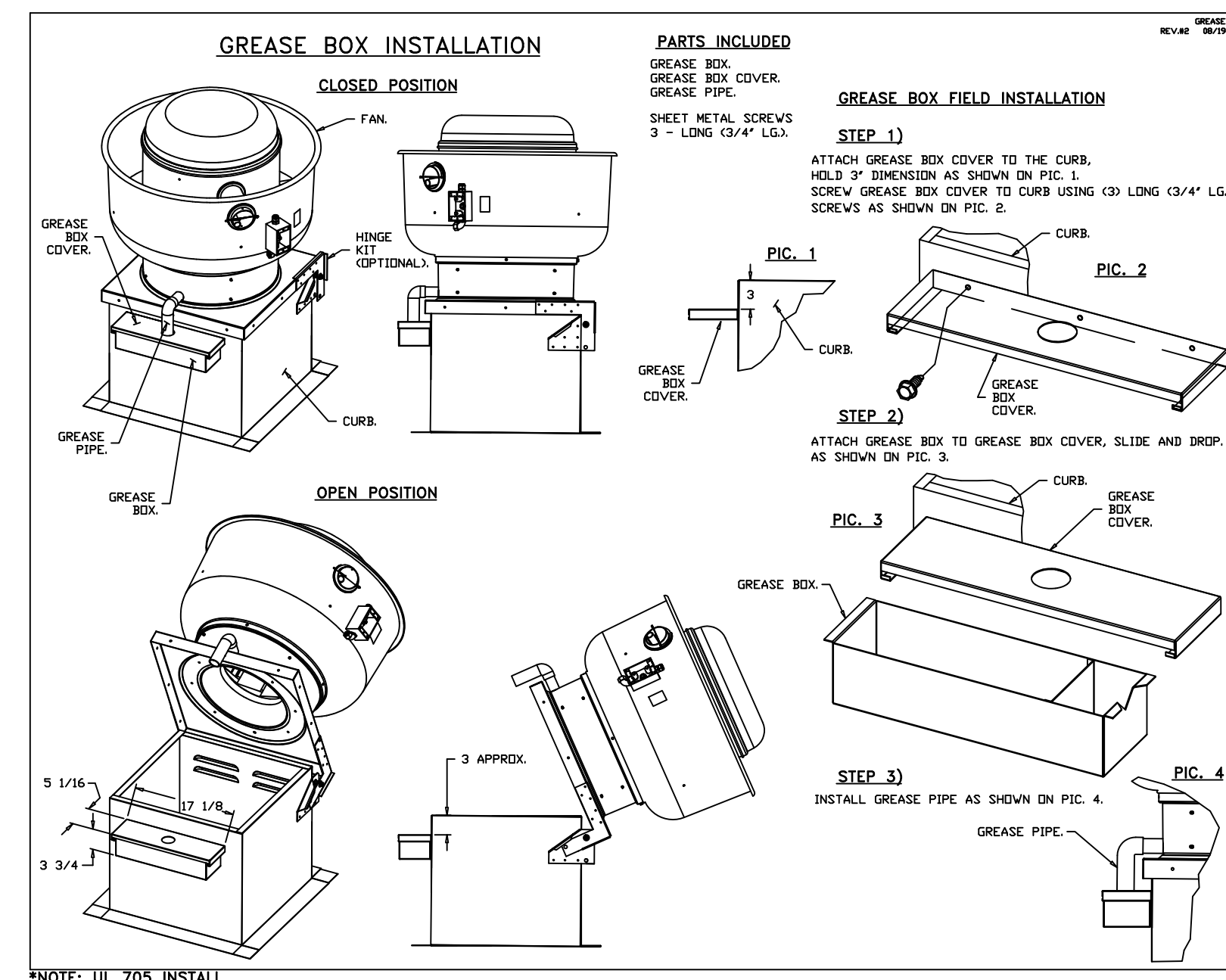
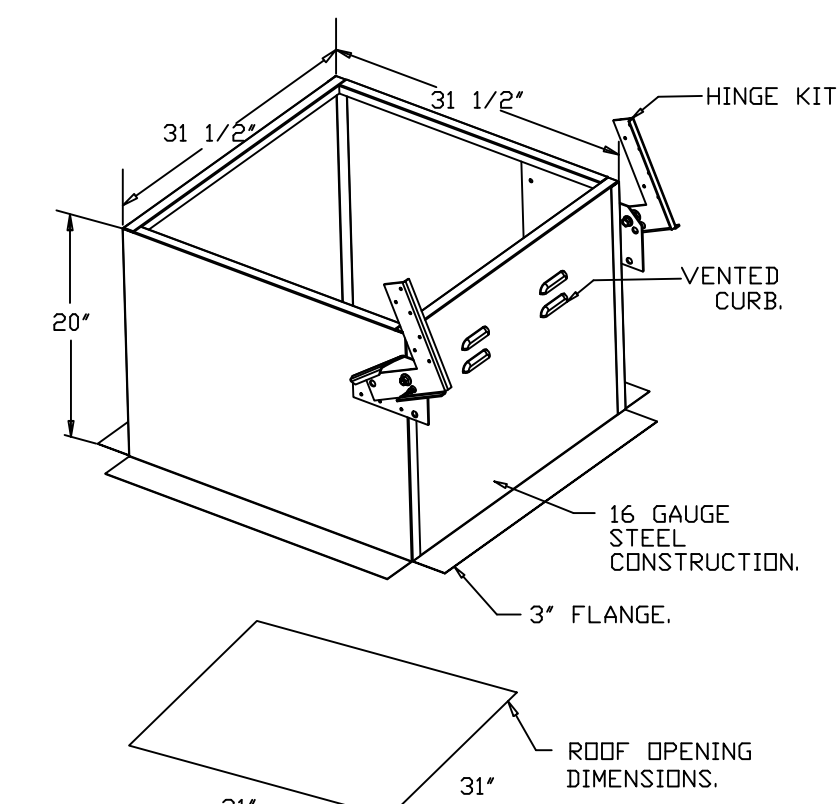
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-3645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

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

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

OPTIONS

- GREASE BOX
- FAN BASE CERAMIC SEAL - DU/DR240HFA - INSTALLED AT PLANT - FOR GREASE DUCTS.
- LOAD REACTOR MOUNTED IN FAN.
- 2 YEAR PARTS WARRANTY.



REVISIONS	DESCRIPTION	DATE



8 Ardham Court, Burlingame, CA, 94010 PHONE: (415) 965-2200 FAX: 9162278640 EMAIL: info@captiveaire.com

SLICE HOUSE - Livermore, CA rev2
1938 First Street,
Livermore, CA, 94550

DATE: 7/29/2025

DWG.#: 7521231

DRAWN BY: T.Thai

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

MASTER DRAWING

SHEET NO. 1



SLICE HOUSE
1948 FIRST STREET
LIVERMORE, CA 94550

PROFICIENT ENGINEERING
3150 Wilcomb Bridge Road
Norcross, Georgia 30071
404.330.9798

FOR CONSTRUCTION

DRAWN BY: SL

CHECKED BY: PK

ISSUE / REVISIONS:

DATE DESCRIPTION

5/15/2025 PERMIT

7/24/2025 PERMIT RESUBMISSION 1

SHEET NAME:
KITCHEN HOOD PACKAGE

SHEET NUMBER:

M209

05.15.25

