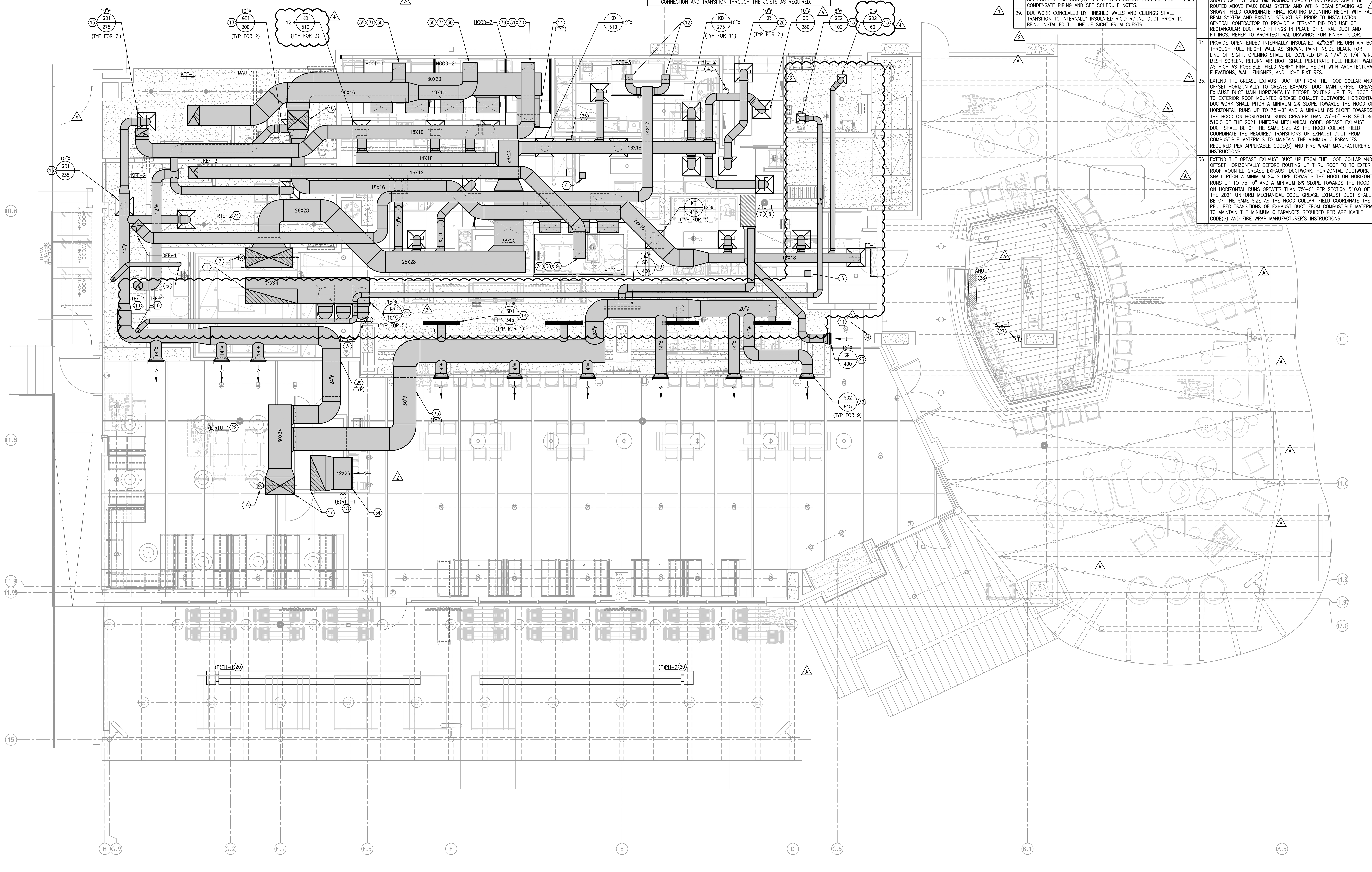
GENERAL NOTES

#	GENERAL NOTES
A.	GENERAL CONTRACTOR TO FIELD VERIFY STRUCTURAL ELEVATIONS FOR ADEQUATE SPACE FOR NEW DUCTWORK, PIPING, AND EQUIPMENT ABOVE THE CEILING. NOTIFY OWNER AND DESIGNER IMMEDIATELY OF ANY SUSPECTED INSTALLATION OR FIELD ISSUES RELATING TO THIS SPACE.
B.	DRILLING, WELDING, SCREWING, OR SHOOTING INTO LANDLORD'S BUILDING STRUCTURE SHALL NOT BE PERMITTED. ALTERNATIVE METHODS OF ATTACHMENT ONLY. ATTACH REQUIRED EQUIPMENT, NONDESTRUCTIVELY, TO OR SUSPEND FROM THE TOP CHORD OF THE JOIST OR STRUCTURAL STEEL WHICH EXISTS ABOVE THE TENANT SPACE.
C.	ALL ROOF PENETRATIONS TO ROOF MUST BE APPROVED BY LANDLORD. ALL ROOF WORK MUST BE DONE BY **DOMAIN NORTHSIDE ROOFING CONTRACTOR** AS APPROVED BY LANDLORD.
D.	ALL ROOFTOP EQUIPMENT SHALL BE MECHANICALLY FASTENED TO ROOF.
E.	ALL PIPING ON ROOF SHALL BE SUPPORTED ON PRE-MANUFACTURED PIPE SUPPORTS INSTALLED ON CARRY TREAD, SPACED PROPERLY TO SUPPORT PIPING.

KEYED NOTES

#	KEYED NOTES
1.	ROUTE SUPPLY AND RETURN DUCTS DOWN FROM THE RTU CONNECTIONS AND TRANSITION THROUGH THE ROOF TO SIZES SHOWN. INSTALL COMPLETE WITH FLEXIBLE CONNECTIONS AT EQUIPMENT. PROVIDE 1/2" INTERNALLY LINED ACOUSTIC INSULATION FOR RETURN DUCTWORK AND THE FIRST 10'-0" OF SUPPLY DUCTWORK.
2.	FACTORY AVAILABLE SMOKE DETECTOR CAPABLE OF SHUTTING DOWN THE RESPECTIVE MECHANICAL UNIT UPON ACTIVATION.
3.	WALL MOUNTED REMOTE ZONE TEMPERATURE AND HUMIDITY SENSOR SHALL BE MOUNTED AT 48" AFF, AND WIRED BACK TO PROGRAMMABLE THERMOSTAT IN MANAGER'S OFFICE. VERIFY PLACEMENT WITH THE ARCHITECTURAL FLOOR PLAN AND OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
4.	WALL MOUNTED PROGRAMMABLE THERMOSTAT IN MANAGER'S OFFICE. VERIFY PLACEMENT WITH THE ARCHITECTURAL FLOOR PLAN AND OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
5.	ROUTE THE COMBUSTION AIR INTAKE AND EXHAUST PIPING FROM THE WATER HEATERS TO TERMINATION LOCATIONS ON THE ROOF. INSTALL WITH THE MINIMUM ELBOWS AND OFFSETS AS NECESSARY FOR A COMPLETE INSTALLATION PER THE WATER HEATER MANUFACTURER'S REQUIREMENTS. PROVIDE WITH DIRECT VENT CONVERSION KIT. PIPING SHALL BE CLASS 3 STAINLESS STEEL.
6.	MANUAL PULL STATION FOR KITCHEN HOOD FIRE SUPPRESSION SYSTEM ACTIVATION AND GAS SUPPLY SHUT-OFF TO BE PROVIDED BY THE FIRE SUPPRESSION SUBCONTRACTOR. GENERAL CONTRACTOR SHALL PROVIDE RECESSED JUNCTION BOX AND CONDUIT FOR PULL STATION LINKAGE. FIRE SUPPRESSION SUBCONTRACTOR SHALL VERIFY APPROVED LOCATION WITH THE LOCAL AUTHORITY AND COORDINATE THE COMPLETE INSTALLATION WITH ALL OTHER TRADES.
7.	REFER TO PLUMBING DRAWINGS FOR CONDENSATE PIPE ROUTING. PROVIDE AUXILIARY DRAIN PAN BELOW UNIT. SEE SCHEDULE NOTES.
8.	DEHUMIDIFICATION UNIT HUNG FROM STRUCTURE ABOVE CEILING IN BOH. VERIFY MOUNTING LOCATION IN FIELD. COORDINATE COMPLETE INSTALLATION WITH MANUFACTURER'S RECOMMENDATIONS AND LANDLORD STRUCTURAL ATTACHMENT REQUIREMENTS.
9.	EXTEND THE GREASE EXHAUST DUCT UP FROM THE HOOD COLLAR AND OFFSET HORIZONTALLY BEFORE ROUTING UP THRU ROOF TO THE EXHAUST FAN. HORIZONTAL DUCTWORK SHALL PITCH A MINIMUM 2% SLOPE TOWARDS THE HOOD ON HORIZONTAL RUNS UP TO 75'-0" AND A MINIMUM 8% SLOPE TOWARDS THE HOOD ON HORIZONTAL RUNS GREATER THAN 75'-0" PER **SECTION 510.0 OF THE 2021 UNIFORM MECHANICAL CODE.** GREASE EXHAUST DUCT SHALL BE OF THE SAME SIZE AS THE HOOD COLLAR. FIELD COORDINATE THE REQUIRED TRANSITIONS OF EXHAUST DUCT FROM COMBUSTIBLE MATERIALS TO MAINTAIN THE MINIMUM CLEARANCES REQUIRED PER APPLICABLE CODE(S) AND FIRE WRAP MANUFACTURER'S INSTRUCTIONS.
10.	EXTEND THE 6"ø RESTROOM EXHAUST RISER UP AND OFFSET HORIZONTALLY BEFORE ROUTING UP THRU ROOF MOUNTED TO EXHAUST FAN. FIELD VERIFY ANY REQUIRED TRANSITIONS OR OFFSETS OF EXHAUST DUCT FROM STRUCTURE.
11.	REMOTE HUMIDITY SENSOR/CONTROL FOR DEHUMIDIFICATION UNIT. VERIFY MOUNTING LOCATION IN FIELD. COORDINATE COMPLETE INSTALLATION WITH MANUFACTURERS RECOMMENDATIONS.
12.	ROUTE THE 14X10 CONDENSATE EXHAUST DUCT RISER UP TO COMBINED EXHAUST DUCTWORK AND OFFSET HORIZONTALLY AS SHOWN PRIOR TO EXTENDING UP THRU ROOF TO EXHAUST FAN. FIELD VERIFY REQUIRED TRANSITIONS OR OFFSETS OF EXHAUST DUCT FROM STRUCTURE. PITCH HORIZONTAL EXHAUST DUCT A MINIMUM 2% SLOPE TOWARDS THE HOOD ON HORIZONTAL RUNS UP TO 75'-0" AND A MINIMUM 8% SLOPE TOWARDS THE HOOD ON HORIZONTAL RUNS GREATER THAN 75'-0" PER **SECTION 510.0 OF THE 2021 UNIFORM MECHANICAL CODE.** CONDENSATE EXHAUST DUCTWORK SHALL BE INSTALLED COMPLETE WITH EXTERNAL DUCT INSULATION SIMILAR TO OTHER HVAC DUCTWORK.
13.	AIR DEVICE IN HARD LID CEILING SHALL BE INSTALLED COMPLETE WITH OPPOSED BLADE DAMPER FOR MANUAL VOLUME ADJUSTMENT.
14.	ROUTE MAKEUP AIR DUCTWORK TO PERFORATED SUPPLY PLENUM COLLAR CONNECTION. MAKEUP AIR DUCT CONNECTION SHALL BE OF THE SAME SIZE AS THE PLENUM COLLAR.
15.	ROUTE MAKEUP AIR DUCTWORK DOWN FULL SIZE FROM THE UNIT CONNECTION THROUGH THE ROOF AS SHOWN. PROVIDE FLEXIBLE CONNECTION AND TRANSITION THROUGH THE JOISTS AS REQUIRED.
16.	EXISTING SMOKE DETECTOR SHALL BE EXISTING TO REMAIN. FIELD VERIFY LOCATION.
17.	CONNECT NEW SUPPLY AND RETURN DUCTWORK UP THRU ROOF TO EXISTING ROOFTOP UNIT CONNECTIONS. FIELD VERIFY SUPPLY AND RETURN DROP LOCATIONS WITH EXISTING STRUCTURE. FIELD COORDINATE SUPPLY AND RETURN DROPS WITH NEW PANELS AND CONDUIT IN ELECTRICAL ROOM BELOW.
18.	RELOCATED WALL MOUNTED THERMOSTAT SHALL BE MOUNTED AT 48" AFF, AND WIRED BACK TO RESPECTIVE EXISTING HVAC UNIT. VERIFY PLACEMENT WITH THE ARCHITECTURAL FLOOR PLAN AND OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
19.	EXTEND THE 12"ø RESTROOM EXHAUST RISER UP AND OFFSET HORIZONTALLY BEFORE ROUTING UP THRU ROOF MOUNTED TO EXHAUST FAN. FIELD VERIFY ANY REQUIRED TRANSITIONS OR OFFSETS OF EXHAUST DUCT FROM STRUCTURE.
20.	EXISTING GAS PATIO HEATER TO REMAIN. FIELD VERIFY SIZE, LOCATION, AND MAINTAIN MANUFACTURER RECOMMENDED CLEARANCES OF HEATERS.
21.	RETURN GRILLE AIR QUANTITY LISTED IS FOR PARTIAL RETURN DURING STANDARD OPERATING HOURS. RETURN DUCTS ARE SIZED FOR FULL RETURN DURING NIGHT SETBACK CONDITIONS. REFER TO **SHEET M2.0** FOR AIR BALANCE REPORT ON DESIGN AIRFLOW RATES.
22.	EXISTING ROOFTOP UNIT SHALL BE EXISTING TO REMAIN. FIELD VERIFY SIZE AND LOCATION.
23.	SIDEWALL MOUNTED RETURN AIR DEVICE WITH FIELD FABRICATED INSULATED PLENUM. MOUNT AIR DEVICE A MINIMUM 10'-10" AND REFER TO ARCHITECTURAL ELEVATIONS FOR FINAL MOUNTING HEIGHT. FIELD COORDINATE FINAL LOCATION WITH ELECTRICAL EQUIPMENT AND WALL FINISHES.
24.	NEW ROOFTOP UNIT SHALL BE IN EXISTING ROOFTOP UNIT LOCATION AND SHALL REUSE EXISTING ROOF OPENING. FIELD VERIFY SIZE AND LOCATION PRIOR TO INSTALLATION. FIELD COORDINATE WITH EXISTING STRUCTURE.
25.	WALL MOUNTED UTILITY CABINET FOR HOOD FIRE SUPPRESSION TANK SYSTEM. 48"L X 12"W X 30"H CABINET SHALL BE HUNG FROM STRUCTURE USING UNISTRUT. FIELD COORDINATE FINAL LOCATION AND CLEARANCES WITH KITCHEN EQUIPMENT BELOW.
26.	AIR DEVICE(S) AND DUCTWORK INTENDED FOR PASSIVE TRANSFER OF POSITIVE PRESSURE AIR. SIZE AS SHOWN.
27.	WALL MOUNTED PROGRAMMABLE THERMOSTAT IN OUTDOOR PATIO BAR. VERIFY PLACEMENT WITH ARCHITECTURAL FLOOR PLAN, ARCHITECTURAL ELEVATIONS, AND OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
28.	MOUNT DUCTLESS SPLIT SYSTEM AIR HANDLING UNIT AS HIGH AS POSSIBLE ON EXTERIOR WALL IN OUTDOOR PATIO BAR. MAINTAIN ALL CLEARANCES AND FIELD COORDINATE FINAL LOCATION OF WALL PENETRATIONS FOR POWER, CONDENSATE, AND REFRIGERANT LINES PER MANUFACTURER'S INSTRUCTIONS. COORDINATE AHU PLACEMENT WITH ARCHITECTURAL ELEVATIONS, ELECTRICAL EQUIPMENT, AND EXISTING OPENINGS IN BAR WALL(S). REFER TO PLUMBING DRAWINGS FOR CONDENSATE PIPING AND SEE SCHEDULE NOTES.
29.	DUCTWORK CONCEALED BY FINISHED WALLS AND CEILINGS SHALL TRANSITION TO INTERNALLY INSULATED RIGID ROUND DUCT PRIOR TO BEING INSTALLED TO LINE OF SIGHT FROM GUESTS.
30.	ALL TYPE-I GREASE EXHAUST DUCT(S) SHALL BE CONSTRUCTED OF AND SUPPORTED BY **NFPA 96 NO. 16 MSG CARBON STEEL OR NO. 18 MSG STAINLESS STEEL** AS APPROVED BY **SECTION 510.5.3 OF THE 2021 UNIFORM MECHANICAL CODE**. GREASE EXHAUST DUCT(S) SHALL BE EXTERNALLY WELDED WITH LIQUID TIGHT JOINTS, SEAMS, AND SMOOTH RADIUS ELBOWS AND TRANSITIONS. GREASE EXHAUST DUCT SHALL BE ThE SAME SIZE AS HOOD COLLAR. REFER TO HOOD SHEETS FOR COLLAR DIMENSIONS. FIELD VERIFY REQUIRED TRANSITIONS OR OFFSETS OF EXHAUST DUCT FROM ROOF TO HOOD COLLAR. FIELD COORDINATE NEW GREASE EXHAUST DUCTWORK WITH EXISTING GREASE EXHAUST DUCTWORK.
31.	ALL TYPE-I GREASE DUCT(S) SHALL BE DOUBLE WRAPPED WITH U.L. LISTED FIRE WRAP 3M FIRE BARRIER DUCT WRAP 20A (OR APPROVED EQUAL) IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. EACH GREASE DUCT RISER SHALL BE WRAPPED TO THE FULL EXTENT POSSIBLE FROM THE HOOD COLLAR CONNECTION UP TO THE TERMINATION AT THE EXHAUST FAN INLET.
32.	SIDEWALL MOUNTED SUPPLY AIR DEVICE WITH FIELD FABRICATED INSULATED PLENUM AND MANUAL VOLUME DAMPER. MOUNT AIR DEVICE A MINIMUM 13'-8" AFF AND REFER TO ARCHITECTURAL ELEVATIONS FOR FINAL MOUNTING HEIGHT. FIELD COORDINATE FINAL LOCATION WITH ELECTRICAL EQUIPMENT AND WALL FINISHES.
33.	ALL EXPOSED DUCTWORK IN THE OPEN CEILING DINING AREA SHALL BE INSTALLED AS GALVANIZED INTERNALLY INSULATED SPIRAL DUCT AND FITTINGS FINISHED WITH PAINTGRIP SUITABLE FOR PAINTING. DUCT SIZES SHOWN ARE INTERNAL DIMENSIONS. EXPOSED DUCTWORK SHALL BE ROUTED ABOVE FAUX BEAM SYSTEM AND WITHIN BEAM SPACING AS SHOWN. FIELD COORDINATE FINAL ROUTING MOUNTING HEIGHT WITH FAUX BEAM SYSTEM AND EXISTING STRUCTURE PRIOR TO INSTALLATION. GENERAL CONTRACTOR TO PROVIDE ALTERNATE BID FOR USE OF RECTANGULAR DUCT AND FITTINGS IN PLACE OF SPIRAL DUCT AND FITTINGS. REFER TO ARCHITECTURAL DRAWINGS FOR FINISH COLOR.
34.	PROVIDE OPEN-ENDED INTERNALLY INSULATED 42"X26" RETURN AIR BOOT THROUGH FULL HEIGHT WALL AS SHOWN. PAINT INSIDE BLACK FOR LINE-OF-SIGHT. OPENING SHALL BE COVERED BY A 1/4" X 1/4" WIRE MESH SCREEN. RETURN AIR BOOT SHALL PENETRATE FULL HEIGHT WALL AS HIGH AS POSSIBLE. FIELD VERIFY FINAL HEIGHT WITH ARCHITECTURAL ELEVATIONS, WALL FINISHES, AND LIGHT FIXTURES.
35.	EXTEND THE GREASE EXHAUST DUCT UP FROM THE HOOD COLLAR AND OFFSET HORIZONTALLY TO GREASE EXHAUST DUCT MAIN. OFFSET GREASE EXHAUST DUCT MAIN HORIZONTALLY BEFORE ROUTING UP THRU ROOF TO TO EXTERIOR ROOF MOUNTED GREASE EXHAUST DUCTWORK. HORIZONTAL DUCTWORK SHALL PITCH A MINIMUM 2% SLOPE TOWARDS THE HOOD ON HORIZONTAL RUNS UP TO 75'-0" AND A MINIMUM 8% SLOPE TOWARDS THE HOOD ON HORIZONTAL RUNS GREATER THAN 75'-0" PER **SECTION 510.0 OF THE 2021 UNIFORM MECHANICAL CODE.** GREASE EXHAUST DUCT SHALL BE OF THE SAME SIZE AS THE HOOD COLLAR. FIELD COORDINATE THE REQUIRED TRANSITIONS OF EXHAUST DUCT FROM COMBUSTIBLE MATERIALS TO MAINTAIN THE MINIMUM CLEARANCES REQUIRED PER APPLICABLE CODE(S) AND FIRE WRAP MANUFACTURER'S INSTRUCTIONS.
36.	EXTEND THE GREASE EXHAUST DUCT UP FROM THE HOOD COLLAR AND OFFSET HORIZONTALLY BEFORE ROUTING UP THRU ROOF TO TO EXTERIOR ROOF MOUNTED GREASE EXHAUST DUCTWORK. HORIZONTAL DUCTWORK SHALL PITCH A MINIMUM 2% SLOPE TOWARDS THE HOOD ON HORIZONTAL RUNS UP TO 75'-0" AND A MINIMUM 8% SLOPE TOWARDS THE HOOD ON HORIZONTAL RUNS GREATER THAN 75'-0" PER **SECTION 510.0 OF THE 2021 UNIFORM MECHANICAL CODE.** GREASE EXHAUST DUCT SHALL BE OF THE SAME SIZE AS THE HOOD COLLAR. FIELD COORDINATE THE REQUIRED TRANSITIONS OF EXHAUST DUCT FROM COMBUSTIBLE MATERIALS TO MAINTAIN THE MINIMUM CLEARANCES REQUIRED PER APPLICABLE CODE(S) AND FIRE WRAP MANUFACTURER'S INSTRUCTIONS.



MECHANICAL FLOOR PLAN
SCALE: 1/4" = 1'-0"
1

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TBPE FIRM REGISTRATION# F-11678

STATE OF TEXAS
JOHN G. SISK
101280
LICENSED PROFESSIONAL ENGINEER

05/24/2024
ISSUE FOR CONSTRUCTION

LORO'S ASIAN SMOKEHOUSE & BAR AUSTIN, TX

11601 DOMAIN DR. #200
AUSTIN, TEXAS 78758

CLIENT: HAI HOSPITALITY
1306 W. OLTORF STREET, SUITE C
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LORO ASIAN SMOKEHOUSE & BAR

DATE	DESCRIPTION
10.27.2023	ISSUE FOR PERMIT
04.12.2024	ISSUE FOR CONSTRUCTION

△	DATE	DESCRIPTION
A	01/15/24	ADDENDUM A - CITY COMMENTS
1	02/05/24	OWNER COMMENTS - VE
2	02/27/24	OWNER COMMENTS - VE
3	04/12/24	OWNER COMMENTS - VE
4	06/10/24	OWNER COMMENTS - VE

MECHANICAL FLOOR PLAN

M1.0

PROJECT NUMBER
LAS23001

FAN SCHEDULE

MARK	SERVICE	HOOD TYPE	CFM	E.S.P. "WG	RPM	MOTOR HP	VOLTS/PH	MANUFACTURER	MODEL	TYPE	WEIGHT	NOTES
KEF-1	HOOD #1 & #2 (COOKLINE)	TYPE-I	3752	2.00	1410	5.00	208/3	ACCUREX	XUEF-18	ROOF UTILITY SET FAN	314	1,3,5,6,8
KEF-2	HOOD #3 (SMOKER)	TYPE-I	1900	1.50	1498	1.00	208/3	ACCUREX	XUEF-15	ROOF UTILITY SET FAN	188	1,3,5,6,8
KEF-3	HOOD #4 (PREP)	TYPE-I	2000	1.25	1614	1.00	208/3	ACCUREX	XRUE-140-A	ROOF UPBLAST FAN	96	1,3,5,6,8
DEF-1	HOOD #5 (DISH)	TYPE-II	1400	1.00	1627	0.50	208/1	ACCUREX	XCUE-120-VG	ROOF UPBLAST FAN	55	2,4,6,8
TEF-1	RESTROOMS	--	600	0.375	1621	0.10	115/1	GREENHECK	G-090-VG	ROOF DOWNBLAST FAN	29	4,10
TEF-2	OUTDOOR RESTROOM	--	100	0.50	1128	0.25	115/1	GREENHECK	G-097-VG	ROOF DOWNBLAST FAN	38	4,10
MAU-1	COOKLINE HOODS	--	6120	1.00	2741	10.00	208/3	ACCUREX	XRV-25-15I-J-AT	ROOF MAKEUP FAN	2471	1,3,4,6,7,8,9

NOTES:

1. THE UTILITY CABINET SHALL BE FACTORY EQUIPPED WITH A PREWIRE PACKAGE TO INTERLOCK THE EXHAUST FANS WITH THE MAKEUP AIR UNIT.
2. THE FAN SHALL BE FACTORY EQUIPPED WITH AN INDEPENDENT WEATHER PROOF DISCONNECT SWITCH IN SIGHT OF THE EQUIPMENT.
3. WEATHER PROOF DISCONNECT SWITCH AND INTERNAL WIRING SHALL BE FACTORY INSTALLED.
4. THE FAN SHALL BE FACTORY EQUIPPED WITH A GRAVITY BACKDRAFT DAMPER.
5. THE FAN SHALL BE FACTORY EQUIPPED WITH CURB MOUNTED HINGE KITS.
6. FURNISHED WITH HOOD PACKAGE, INSTALLED BY THE MECHANICAL CONTRACTOR.
7. THE MAKEUP AIR UNIT SHALL BE FACTORY EQUIPPED WITH (1) CIRCUITS OF DX COOLING FOR SINGLE STAGE OPERATION, RATED FOR **237.6 MBH** TOTAL CAPACITY/ **197.3 MBH** SENSIBLE CAPACITY, AND A COOLING INTAKE THERMOSTAT. THE MECHANICAL CONTRACTOR SHALL FIELD ADJUST TO **75°F**.
8. ALL EQUIPMENT SHALL BE INSTALLED AND STARTED-UP PER THE MANUFACTURER'S "INSTALLATION, OPERATION, AND MAINTENANCE MANUALS". THE MECHANICAL CONTRACTOR SHALL COMPLETE ALL FACTORY "START-UP AND MAINTENANCE DOCUMENTATION" INCLUDED WITH THE EQUIPMENT PACKAGE, AND PROVIDE A COPY TO THE **LORO ASIAN SMOKEHOUSE** CONSTRUCTION MANAGER.
9. THE MAKEUP AIR UNIT IS FACTORY EQUIPPED WITH DIRECT FIRED GAS COMBUSTION HEAT EXCHANGER, RATED FOR **300 MBH INPUT / 243 MBH OUTPUT**.
10. ELECTRICAL CONTRACTOR SHALL INTERLOCK WITH RESTROOM LIGHT SWITCH FOR SIMULTANEOUS OPERATION.

DEHUMIDIFICATION UNIT

AIR HANDLING UNIT		
UNIT TAG	DHU-1	
ULTRA-AIRE MODEL NO.	XT205H	
INSTALLED (LBS)	140	
FAN SECTION		
RATED CFM	400	
DRIVE	STANDARD	
E.S.P. (IWG)	0.20	
TOTAL UNIT ELECTRIC DATA		
VOLTS/PH/HZ	115/1/60	
MIN. CIR. AMPS	13.2	
MOCP	20	

NOTES:

1. FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR.
2. PROVIDE WITH **ULTRA-AIRE DEH 3000 DIGITAL CONTROLLER**.
3. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND PROVIDE ALL NECESSARY HARDWARE FOR COMPLETE INSTALLATION.

AIR DEVICE SCHEDULE

MARK	FACE SIZE	TYPE	MOUNTING TYPE	MAXIMUM N.C.	DIRECTION	MANUFACTURER	MODEL	NOTES
KD	24x24	SUPPLY	LAY-IN	30	1-WAY	TITUS	PAS	1,3,4,5
GD1	24X24	SUPPLY	SURFACE (GYP. CLG)	30	4-WAY	TITUS	OMNI	2,3,4,6
GD2	12X12	SUPPLY	SURFACE (GYP. CLG)	30	4-WAY	TITUS	OMNI	2,3,4,6
OD	24X24	SUPPLY	LAY-IN	30	4-WAY	TITUS	OMNI	1,3,4,5
KR	24x24	RETURN	LAY-IN	30	1-WAY	TITUS	PAR	1,3,5
GE1	24x24	EXHAUST	SURFACE (GYP. CLG)	30	1-WAY	TITUS	23RL	2,3,6
GE2	12x12	EXHAUST	SURFACE (GYP. CLG)	30	1-WAY	TITUS	23RL	2,3,6
SD1	48 INCH (2-SLOT) (1.0" SLOT)	SUPPLY	SURFACE (GYP. CLG)	30	1-WAY	TITUS	FL-10	2,3,7,8
SD2	18x12	SUPPLY	SIDEWALL MOUNTED	30	1-WAY	TITUS	300FL	2,3
SR1	12x8	RETURN	SURFACE (GYP. CLG)	30	1-WAY	TITUS	350RL	2,3

NOTES:

1. AIR DEVICES IN THE BACK OF HOUSE SHALL BE INSTALLED WITH FACTORY APPLIED OFF WHITE FINISH.
2. AIR DEVICES IN THE FRONT OF HOUSE SHALL BE PROVIDED WITH FACTORY OFF WHITE FINISH. PRIOR TO INSTALLATION, THE PAINTING CONTRACTOR SHALL EVENLY SAND THE AIR DEVICE AND TRIM, AND APPLY A PAINT GRIP PRIMER SUITABLE FOR A FINAL PAINT FINISH. REFER TO ARCHITECTURAL DRAWINGS FOR FINAL AIR DEVICE FINISH. FOLLOW THE DEVICE MANUFACTURER'S DIRECTION FOR FIELD PAINTING. VERIFY FINAL COLOR WITH THE OWNER'S CONSTRUCTION MANAGER PRIOR TO APPLICATION.
3. PROVIDE NECESSARY MOUNTING HARDWARE AND ACCESSORIES AS REQUIRED FOR INTENDED INSTALLATION.
4. AIR DEVICE SHALL BE INSTALLED WITH MANUFACTURER AVAILABLE MOLDED INSULATION BACKING. FIELD FABRICATED INSULATION BACKING IS NOT ALLOWED (UNLESS FIRST APPROVED BY THE OWNER'S CONSTRUCTION MANAGER).
5. AIR DEVICE SHALL BE INSTALLED COMPLETE WITHOUT SUPPLY AIR FLOW PATTERN CONTROLLERS.
6. AIR DEVICE SHALL BE INSTALLED WITH ACCESSIBLE OPPOSED BLADE DAMPER FOR MANUAL VOLUME ADJUSTMENT.
7. PROVIDE YOUNG REGULATOR CABLE SYSTEM MODEL 270-275 FOR BALANCING/AIR FLOW ADJUSTMENT AT DIFFUSER FACE.
8. PROVIDE WITH BORDER 'TYPE 22' AND INSULATED PLENUM BOX. SPACKLE BORDER AS NECESSARY FOR FLUSH FINISH OF AIR DEVICE SLOT OPENING WITH CEILING SURFACE (GYP. CLG).

GAS PATIO HEATER SCHEDULE

MARK	TYPE	AREA SERVED	HEATING CAPACITY	MAXIMUM CFM	ELECTRICAL VOLT / AMPS	MANUFACTURER	MODEL	NOTES
(E) PH-1,2	EXIST - VERIFY	PATIO	EXIST - VERIFY	EXIST - VERIFY	EXIST - VERIFY	EXIST - VERIFY	EXIST - VERIFY	1,2,3,4

NOTES:

1. EXISTING GAS PATIO HEATER TO REMAIN. FIELD VERIFY SIZE, LOCATION, AND CONDITION.

FLY FAN SCHEDULE

MARK	SERVICE	LENGTH	CFM	VOLTS/ PH	AMPS/HP	MANUFACTURER	MODEL	TYPE	WEIGHT	NOTES
FF-1	REAR SERVICE DOOR	36"	1220	120/1	6.0 / 1/6	CURTRON	AP-2-36-1-PC	WALL MNTD, DOWNBLAST	45	1,2

NOTES:

1. INSTALL COMPLETE WITH MANUFACTURER AVAILABLE DOOR LIMIT MICRO SWITCH.
2. FLY FAN SHALL BE FURNISHED BY KITCHEN VENDOR AND INSTALLED BY THE MECHANICAL CONTRACTOR.
3. FLY FAN SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
4. PROVIDE WITH WEATHER BOX FOR OUTDOOR INSTALLATION.

TEST AND BALANCE NOTES

1. THE GENERAL CONTRACTOR SHALL SUBCONTRACT TO AN INDEPENDENT AIR TEST AND BALANCE CONTRACTOR FOR THE TESTING, ADJUSTING AND BALANCING OF ALL ENVIRONMENTAL SYSTEMS SHOWN OR SPECIFIED ON THE CONTRACT DOCUMENTS. THIS SHALL INCLUDE EQUIPMENT OPERATION IN COOLING, HEATING, AND DEHUMIDIFCATION OPERATIONAL MODES. THE WORK SHALL BE PERFORMED BY A FIRM CERTIFIED BY EITHER AABC OR NEBB, AND FOUR (4) COPIES OF THE FINAL REPORT, SUBMITTED ON CERTIFYING AGENCY FORMS, SHALL BE SUBMITTED TO THE **LORO ASIAN SMOKEHOUSE** CONSTRUCTION MANAGER AND **ON-SITE PROPERTY MANAGEMENT OFFICE** FOR APPROVAL. THE REPORT SHALL BEAR THE CERTIFICATION SEAL OF THE TAB SUPERVISOR IN CHARGE. REPORTS SHALL CONTAIN ALL AIR SIDE BALANCING DATA, INSTRUMENTS USED AND THEIR LATEST CALIBRATION DATES, PERSON(S) PERFORMING THE WORK AND A WRITTEN GUARANTEE THAT ALL TAB WORK WAS PERFORMED IN ACCORDANCE WITH THE CERTIFYING AGENCY STANDARDS AND PROCEDURES.
2. THE TEST AND BALANCE REPORT SHALL INCLUDE OPERATIONAL DATA FOR EVERY COMPONENT OF THE COMPLETE MECHANICAL SYSTEM INCLUDING HVAC EQUIPMENT, HVAC AIR DEVICES, KITCHEN FANS, RESTROOM FANS, ETC. THIS DATA SHALL INCLUDE THE BALANCED OPERATING DATA FOR EQUIPMENT AS COMPARED TO THE DESIGN AIR BALANCE SCHEDULE ON THIS SHEET.
3. FOR CLARIFICATION, THE ENGINEER OF RECORD WILL NOT BE ABLE TO REVIEW THE INSTALLED MECHANICAL SYSTEMS FOR POTENTIAL OPERATIONAL ISSUES OR INSTALLATION DEFICIENCIES WITHOUT THE FULL AND COMPLETE TEST AND BALANCE REPORT.

O/A VENTILATION SCHEDULE

AREA SERVED	VENTILATION (OCCUPANCY)			VENTILATION (AREA)		
	# OF PEOPLE	CFM/PERSON	CFM	SQUARE FEET	CFM/SF	CFM
DINING	138	7.5	1035	2380	0.18	429
KITCHEN	15	7.5	113	1316	0.12	158
RESTROOMS	–	–	–	713	–	–
SUBTOTALS			1148			587
		TOTAL O/A REQUIRED	1735 CFM			

NOTES:

CALCULATIONS ARE BASED ON **2021 UMC, TABLE 402.1**

1. OUTDOOR AIR DEMAND IS: − 1735 CFM
   OUTDOOR AIR PROVIDED IS: + 3455 CFM

   OUTDOOR AIR DIFFERENCE IS: + 1720 CFM

HVAC SEQUENCE OF OPERATION

MARK	SERVICE	FUNCTION	START TIME	COOLING SETPOINT(°F)	HEATING SETPOINT(°F)	HUMIDITY SETPOINT(%RH)	NOTES
(E)RTU-1	DINING/BAR	OCCUPIED	9:30 AM	72	72	--	1 THRU 3
		UNOCCUPIED	12:30 AM	85	55		
RTU-2	KITCHEN/BOH	OCCUPIED	9:35 AM	72	72	50	1 THRU 4
		UNOCCUPIED	12:30 AM	85	55		
DHU-1	DINING/BAR	24 HRS	N/A	N/A	N/A	50	5

NOTES:

1. UNIT FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED HOURS, AND CYCLE ON DEMAND DURING UNOCCUPIED HOURS.
2. UPON A CALL FOR COOLING:
   - COMPRESSORS TO CYCLE TO MAINTAIN THE SPACE SETTING, WITH THE GAS HEATER LOCKED OUT.
   - THERE SHALL BE A 2°F DEAD BAND (ADJUSTABLE) BETWEEN THE 1ST AND 2ND STAGE OF COOLING.
   - THERE SHALL BE A 5 MINUTE (ADJUSTABLE) TIME DELAY BETWEEN THE 1ST AND 2ND STAGE OF COOLING.
3. UPON A CALL FOR HEATING:
   - GAS FURNACE TO CYCLE TO MAINTAIN THE SPACE SETTING, WITH THE COMPRESSORS LOCKED OUT.
   - THERE SHALL BE A 2°F DEAD BAND (ADJUSTABLE) BETWEEN THE 1ST AND 2ND STAGE OF HEATING.
   - THERE SHALL BE A 5 MINUTE (ADJUSTABLE) TIME DELAY BETWEEN THE 1ST AND 2ND STAGE OF HEATING.
4. UPON A CALL FOR HUMIDITY CONTROL:
   - DURING OCCUPIED TIMES WHEN HUMIDISTAT INDICATES AN INCREASE IN HUMIDITY ABOVE THE SET POINT, THE **HUMIDITROL** SYSTEM SHALL ACTIVATE TO REDUCE THE SPACE HUMIDITY TO BELOW SET POINT.
   - DURING UNOCCUPIED TIMES WHEN HUMIDISTAT INDICATES AN INCREASE IN HUMIDITY ABOVE THE SET POINT, THE FAN SHALL TURN ON AND THE **HUMIDITROL** SYSTEM SHALL ACTIVATE TO REDUCE THE SPACE HUMIDITY TO BELOW SETPOINT.
5. UPON A CALL FOR HUMIDITY CONTROL:
   - DURING OCCUPIED TIMES WHEN HUMIDISTAT INDICATES AN INCREASE IN HUMIDITY ABOVE THE SET POINT, THE **DEHUMIDIFICATION UNIT** SHALL ACTIVATE TO REDUCE THE SPACE HUMIDITY TO BELOW SET POINT.
   - DURING UNOCCUPIED TIMES WHEN HUMIDISTAT INDICATES AN INCREASE IN HUMIDITY ABOVE THE SET POINT, THE FAN SHALL TURN ON AND THE **DEHUMIDIFICATION UNIT** SHALL ACTIVATE TO REDUCE THE SPACE HUMIDITY TO BELOW SETPOINT.

PACKAGED ROOFTOP UNIT SCHEDULE

	MARK	(E)RTU-1	RTU-2	–
GENERAL	SERVING	DINING/BAR	KITCHEN/BOH	–
	MANUFACTURER	RUUD	CARRIER	–
	MODEL NO.	RLNL-B300CL	48FCEN20K2M5	–
	TYPE	ELEC	GAS/ELEC	–
	OPERATING WEIGHT, LBS.	EXIST - VERIFY	2388	–
	LENGTH, WIDTH, HEIGHT	EXIST - VERIFY	128"x86x48"	–
	MINIMUM EER/SEER	EXIST - VERIFY	10.8/14.5	–
ELECTRICAL	VOLTS/ PH/ HZ	208/3/60	208/3/60	
	MCA (AMPS)	100.0	80.2	–
	MOCP (AMPS)	110.0	100.0	–
SUPPLY FAN	SUPPLY AIR CFM	9500	6650	–
	OUTSIDE AIR CFM	2000	1455	–
	ESP ("W.G.)	EXIST - VERIFY	0.80	–
	FAN RPM	EXIST - VERIFY	1665	–
	MOTOR HP	EXIST - VERIFY	3.35	–
COOLING	NOMINAL SIZE TONS	25.0	17.5	–
	TOTAL CAPACITY (MBH)	EXIST - VERIFY	207.2	–
	SENSIBLE CAPACITY (MBH)	EXIST - VERIFY	156.5	–
	OUTSIDE AIR DB/WB, °F.	98	98	–
	ENTERING AIR DB/WB, °F.	80/67	80/67	–
HEATING	TYPE OF HEAT	ELEC	GAS	–
	HEATING INPUT (MBH)	EXIST - VERIFY	310.0	–
	HEATING OUTPUT (MBH)	EXIST - VERIFY	251.0	–
	OUTSIDE AIR DB/WB, °F.	25	25	–
	LEAVING AIR DB/WB, °F.	EXIST - VERIFY	97.6	–
				–
NOTES		11-15	1-10	–

NOTES:

1. UNIT TO BE INSTALLED AT SAME LOCATION AS PREVIOUS UNIT BEING REMOVED. THE EXISTING OPENING SHALL BE REUSED. PROVIDE A FACTORY AVAILABLE UN-INSULATED FLAT ROOF CURB THAT SHALL BE FIELD ASSEMBLED AND SHIMMED SUCH THAT THE TOP OF THE CURB SETS LEVEL. ROOF CURBS TO BE INSTALLED BY THE GENERAL CONTRACTOR, AND FIELD INSULATED BY THE MECHANICAL CONTRACTOR.
2. PROVIDE WITH LOW AMBIENT CONTROLS, MICROPROCESSOR CONTROLS, CONDENSER COIL HAIL GUARD (FOR 'A' AND 'B' CABINETS), HINGED ACCESS PANELS, CRANK CASE HEATER, FRESH AIR TEMPERING KIT, AND FROSTAT.
3. PROVIDE WITH MANUFACTURER'S PROGRAMMABLE 24/7 THERMOSTAT, REMOTE TEMPERATURE AND HUMIDITY SENSORS CAPABLE OF AUTOMATIC COOLING/ HEATING CHANGEOVER.
   - THE CONTROL WIRING FOR THE THERMOSTAT SHALL BE 18AWG STRANDED, SINGLE TWISTED PAIR, INDIVIDUALLY SHIELDED, 100% ALUMINUM SHIELD DRAIN WIRE AND PLENUM RATED TEFLON JACKET (BELDEN 88760).
   - THE CONTROL WIRING FOR THE HUMIDISTAT SHALL BE 22AWG STRANDED, TWO TWISTED PAIRS, INDIVIDUALLY SHIELDED, 100% ALUMINUM SHIELD DRAIN WIRE AND PLENUM RATED TEFLON JACKET (BELDEN 88273).
   - REFER TO THE PLAN SHEETS FOR PROPOSED MOUNTING LOCATIONS OF CONTROL DEVICES.
4. PROVIDE FACTORY INSTALLED OUTDOOR ENTHALPY CONTROLLED ECONOMIZER WITH FULL MODULATING MOTORIZED OUTSIDE AIR DAMPER. FIELD ADJUST BOTH DIP SWITCHES TO THE RIGHT FOR ODE SETTING.
5. MECHANICAL CONTRACTOR SHALL PROVIDE A FIELD INSTALLED **SUPPLY** AIR SMOKE DETECTOR 10'-0" DOWNSTREAM OF THE UNIT PRIOR TO RETURN AIR GRILL DUCT CONNECTIONS, CAPABLE OF SHUTTING DOWN THE ROOFTOP UNIT UPON ACTIVATION. INSTALL COMPLETE WITH A KEYED REMOTE DETECTOR (BLACK) INSTALLED IN THE RETURN AIR DUCT.
6. PROVIDE FACTORY INSTALLED ELECTRICAL DISCONNECT. CONVENIENCE RECEPTACLE SHALL BE FIELD WIRED BY THE E.C. AND POWERED SEPARATELY FROM THE UNIT.
7. PROVIDE SINGLE POINT ELECTRICAL POWER CONNECTION INCLUDING STARTERS AND CONTROLS.
8. PROVIDE WITH **SUPPLEMENTAL DEHUMIDIFICATION** OPTION FOR HOT GAS REHEAT, AND MANUFACTURER'S ADJUSTABLE REMOTE HUMIDITY SENSOR CAPABLE OF AUTOMATIC OPERATION OF THE COOLING CYCLE (ONCE THE DEMAND FOR COOLING IS SATISFIED BY THE T-STAT) FOR SUPPLEMENTAL DEHUMIDIFICATION.
9. UNIT SELECTIONS ARE BASED ON R-410A REFRIGERANT.
10. FOR EQUIPMENT ORDERING, CONTACT **MR. JARMALE LEWIS** AT **(972) 281-6541**.
11. ROOFTOP UNIT IS EXISTING TO REMAIN. CONTRACTOR SHALL VERIFY ACTUAL CONDITION OF THE EXISTING ROOFTOP UNIT CURB FOR INTENDED REUSE.
12. PROVIDE ANY REQUIRED SERVICE AND MAINTENANCE REPAIRS TO BRING THE UNIT TO A 'LIKE NEW' CONDITION. REPLACE ALL WORN PARTS, BELTS, AND FILTERS. PROVIDE ACCESSORIES TO UTILIZE OUTSIDE AIR INTAKES OF UNITS FOR BALANCING AIRFLOWS AS SHOWN. PROVIDE ALL DAMPERS, HOOD, ETC.
13. FIELD VERIFY REFRIGERANT CHARGE AND FILL SYSTEM AS REQUIRED. IN THE EVENT THE SYSTEM IS EXTREMELY LOW, VACUUM AND CAPTURE THE EXISTING REFRIGERANT PRIOR TO RECHARGING THE LINES. IDENTIFIED REPAIR LEAKS AS REQUIRED.
14. PROVIDE ACCESSORIES TO UTILIZE OUTDOOR AIR INTAKES (DAMPERS, HOODS, ETC).
15. THE OUTDOOR AIR FOR THE EXISTING RTU SHALL BE BALANCE TO THE CFM SHOWN IN THE SCHEDULE.

AIR BALANCE SCHEDULE

MARK	DINING (CFM)			KITCHEN (CFM)		
	S/A	O/A	E/A	S/A	O/A	E/A
(E)RTU-1	9500	2000	–	–	–	–
RTU-2	–	–	–	6650	1580	–
KEF-1	–	–	–	–	–	3752
KEF-2	–	–	–	–	–	1900
KEF-3	–	–	–	–	–	2000
DEF-1	–	–	–	–	–	1400
TEF-1	–	–	600	–	–	–
MAU-1	–	–	–	–	6120	–
TOTAL	9500	2280	600	6650	7575	9052

DINING PRESSURIZATION
(O/A) − (E/A)= +1680 CFM

KITCHEN PRESSURIZATION
(O/A) − (E/A)= −1352 CFM

NET BUILDING PRESSURIZATION (DINING + KITCHEN)= +328 CFM

DUCTLESS HEAT PUMP SPLIT SYSTEM SCHEDULE

MARK	MAKE/ MODEL	RATED COOLING CAPACITY (BTU/H)	RATED HEATING CAPACITY (BTU/H)	SEER/EER	CFM	VOLTS/PH/HZ	MCA/MOCP	DIMENSIONS (W,D,H)	WEIGHT (LBS)	NOTES
AHU-1	CARRIER 40MAHBQ24XA3	24,000	29,000	13.0/21.5	715	POWERED FROM CONDENSER	POWERED FROM CONDENSER	44x10.8x14.6	44	2,3,4,5,6
MARK	MAKE/ MODEL	COMPRESSOR	--	REFRIGERANT TYPE	--	VOLTS/PH/HZ	MCA/MOCP	DIMENSIONS (W,D,H)	WEIGHT (LBS)	NOTES
CU-1	CARRIER 38MARBQ24AA3	DC INVERTER/ TWIN ROTARY	--	R410A	--	208/1/60	25.0/35.0	37.2x16.1x31.9	135	1,2,3,4

NOTES: (NOT ALL MAY APPLY)

1. CONDENSING UNIT SHALL BE FACTORY EQUIPPED WITH THE FOLLOWING OPTIONS/ ACCESSORIES: DX COIL, HAIL GUARD, THERMAL EXPANSION VALVE, DRAIN PAN, SIGHT GLASS, LIQUID LINE FILTER, LOW AMBIENT CONTROL KIT, AND ANTI-SHORT CYCLE TIMER.
2. COORDINATE REFRIGERANT SUCTION AND LIQUID LINE SIZING WITH MANUFACTURER REQUIREMENTS, AGAINST THE MAXIMUM DEVELOPED HORIZONTAL AND VERTICAL LINE LENGTHS REQUIRED WITH SITE CONDITIONS.
3. COOLING LOADS LISTED ARE AT A.R.I. STANDARD.
4. CONTACT **MR. JARMALE LEWIS (CARRIER) AT (972)281-6541** FOR PRICING AND VERIFY FINAL SELECTIONS FOR EQUIPMENT SELECTION INFORMATION AND ORDERING.
5. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT WITH AHU.
6. AHU SHALL BE PROVIDED WITH INTEGRAL CONDENSATE PUMP.

LANDLORD DESIGN CRITERIA REQUIREMENTS

1. ANY CHANGES AND/OR UPGRADES TO TENANT'S EXISTING MECHANICAL SYSTEMS SHALL COMPLY WITH ALL CODES AND LANDLORD CRITERIA. EXISTING SYSTEMS SHALL POSSESS THE CAPACITY TO HANDLE ANY AND ALL CHANGES IN LOAD.
2. NO PITCH POCKETS PERMITTED ON ROOF FOR ANY CONDENSATE DRAINS, REFRIGERANT PIPING, POWER OR CONTROL WIRING. ALL CONNECTIONS ARE TO BE MADE INSIDE THE EQUIPMENT CURB OR THROUGH PRE-MANUFACTURED PIPING CURB.
3. NOTHING IS PERMITTED TO BE ATTACHED TO, SUSPENDED FROM, OR PENETRATE LANDLORD'S STRUCTURE, FLOOR DECK, OR ROOF DECK. YOU MAY ATTACH, NON-DESTRUCTIVELY, TO OR SUSPEND FROM THE TOP CHORD OF THE JOISTS OR THE STRUCTURAL STEEL WHICH EXISTS ABOVE TENANT SPACE. WHEN ATTACHING TO LANDLORD'S STRUCTURE, DO NOT DRILL, WELD, SCREW, OR SHOOT INTO STRUCTURE. ALTERNATIVE METHODS OF ATTACHMENT ONLY, NOTHING TO DAMAGE LANDLORD'S BASE BUILDING STRUCTURE.
4. ALL PENETRATIONS TO ROOF MUST BE APPROVED BY LANDLORD. ALL RELATED ROOF WORK MUST BE DONE BY **DOMAIN NORTHSIDE'S DESIGNATED ROOFING CONTRACTOR**, AT TENANT'S EXPENSE. COORDINATE ALL WORK WITH PROPERTY MANAGEMENTS ON SITE.
5. GC TO LABEL ALL ROOFTOP EQUIPMENT WITH TENANT NAME, SPACE NUMBER, AND EQUIPMENT IDENTIFICATION, PER **DOMAIN NORTHSIDE SPECIFICATIONS AND STANDARDS**.
6. ALL ROOFTOP EQUIPMENT IS REQUIRED TO BE MECHANICALLY FASTENED TO ROOF.
7. ALL PIPING ON ROOF SHALL BE SUPPORTED ON PRE-MANUFACTURED PIPE SUPPORTS INSTALLED ON CARRY TREAD, SPACED PROPERLY TO SUPPORT PIPING. TREATED WOOD SUPPORTS ARE NOT PERMITTEED.

MECHANICAL LEGEND

SYMBOL	ABBR.	DESCRIPTION
☒	CD	CEILING DIFFUSER – SUPPLY
☒	CD	CEILING DIFFUSER BELOW DUCT – SUPPLY
☒	SAD	RISER – SUPPLY AIR DUCT
⤢	SAD	DROP – SUPPLY AIR DUCT
⧄	CR	CEILING REGISTER – RETURN
⧄	CR	CEILING REGISTER BELOW DUCT – RETURN
⧄	RAD	RISER – RETURN AIR DUCT
⤢	RAD	DROP – RETURN AIR DUCT
⧅	CE	CEILING REGISTER – EXHAUST
⧅	CE	CEILING REGISTER BELOW DUCT – EXHAUST
⧅	EAD	RISER – EXHAUST AIR DUCT
▭	(L)	LINED DUCTWORK
▭	VD	MANUAL VOLUME DAMPER
M	MD	MOTORIZED VOLUME DAMPER
▭	FC	FLEXIBLE CONNECTION
▭		NEW DUCT
TAG CFM		AIR DEVICE DESIGNATION
Ⓣ	TSTAT	PROGRAMMABLE THERMOSTAT
Ⓢ	SENS	REMOTE TEMPERATURE SENSOR
⬡ S	SD	SMOKE DETECTOR
⊕	POC	POINT OF CONNECTION
	CFM	CUBIC FEET PER MINUTE
	S/A	SUPPLY AIR
	O/A	OUTSIDE AIR
	E/A	EXHAUST AIR
	S.P.	STATIC PRESSURE
	FOH	FRONT OF HOUSE
	BOH	BACK OF HOUSE

MECHANICAL GENERAL NOTES

1. NOTE: FOR THE PURPOSE OF CLEARNESS AND LEGIBILITY, THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC, ALTHOUGH SIZES & LOCATIONS OF EQUIPMENT ARE DRAWN TO SCALE WHEREVER POSSIBLE, CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL OF THE CONTRACT DOCUMENTS AND VERIFY INFORMATION PRIOR TO ORDERING, FABRICATING OR INSTALLING ANY MATERIALS.
2. THE MECHANICAL CONTRACTOR SHALL PROVIDE COMPLETE INFORMATION AND COOPERATE WITH THE OTHER CONTRACTORS AND TRADES AS REQUIRED FOR THE COMPLETION AND COORDINATION OF THE COMPLETE PROJECT.
3. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADMINISTERING ALL WARRANTIES ON EQUIPMENT WHICH THEY FURNISH AND INSTALL.
4. PROVIDE WRITTEN WARRANTY TO REPLACE ALL FAULTY MATERIALS AND/OR LABOR, AT NO COST TO TENANT, FOR PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE.
5. ALL OUTDOOR AIR INTAKE BY MECHANICAL EQUIPMENT SHALL HAVE A MINIMUM 10'-0" HORIZONTAL CLEARANCE FROM THE DISCHARGE OF ANY EXHAUST FAN, RTU GAS EXHAUST OR PLUMBING VENT.
6. PROVIDE VIBRATION ISOLATION DEVICES AND FLEXIBLE DUCT/ PIPING CONNECTIONS TO ALL MOVING MACHINERY NOT INTERNALLY ISOLATED.
7. ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
8. THE MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCT AND DIFFUSER LOCATIONS WITH SPRINKLER PIPING, SPRINKLER HEADS AND LIGHT FIXTURES AS REQUIRED FOR A COMPLETE INSTALLATION.
9. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND OTHER TRADES ALL REQUIRED OPENINGS AND PENETRATIONS. ALL REQUIRED OPENINGS IN FOUNDATIONS, FLOORS, WALLS AND ROOF SHALL BE CONSTRUCTED INTO THE STRUCTURE WITH THE USE OF SLEEVES, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM.
10. ALL ITEMS PROJECTING THROUGH THE ROOF SHALL BE FLASHED THROUGH CURBS OR PIPE SEALS A MINIMUM OF 12" ABOVE THE ROOF. THE PIPE CURBS AND SEALS SHALL BE INSTALLED BY THE ROOFING CONTRACTOR. ENSURE THAT AMPLE BOOT OPENINGS ARE PROVIDED TO ACCOMMODATE ANY ELECTRICAL CONDUIT PENETRATIONS REQUIRED FOR POWER.
11. COORDINATE THE INSTALLATION AND FINISH OF ALL SUPPLY AND RETURN AIR DEVICES. AIR DEVICES LOCATED IN GUEST AREAS (INCLUDING DINING AND BAR) SHALL BE PAINTED PER THE ARCHITECTURAL DRAWINGS FINISH SCHEDULE. ALL INTERIOR FACES OF DUCTWORK BEHIND RETURN AIR GRILLES SHALL BE PAINTED FLAT BACK FOR LINE OF SIGHT.
12. ALL SUPPLY, RETURN, AND RESTROOM EXHAUST DUCTWORK SHALL BE INSTALLED AS HIGH AS POSSIBLE UNDER THE ROOF STRUCTURE.
13. ALL RECTANGULAR, ROUND, AND FLEXIBLE DUCTWORK SHALL BE SIZED AS SHOWN ON THESE DRAWINGS; AND SHALL BE FABRICATED AND INSTALLED ACCORDING TO THE MOST RECENTLY PUBLISHED SMACNA STANDARDS. ALL JOINTS, SEAMS, AND CONNECTIONS MUST BE SECURELY FASTENED & SEALED BY APPROVED METHODS.
14. ANY FLEXIBLE DUCTS SHALL BE INSTALLED IN CONCEALED SPACES ONLY. THE MAXIMUM ALLOWABLE LENGTH OF FLEXIBLE DUCT SHALL BE 5'-0". ALL FLEXIBLE DUCTS SHALL BE CONNECTED TO BRANCH RUNS AND FITTINGS WITH A PANDUIT-TYPE BAND, AND SHALL NOT BE ATTACHED DIRECTLY TO THE AIR DEVICE COLLAR.
15. ALL PENETRATIONS IN FIRE RATED WALL ASSEMBLIES SHALL BE SEALED WITH UL LISTED FIRE STOPPING MATERIAL.
16. MC SHALL FURNISH AND INSTALL 4" HIGH BLACK OVER WHITE LAMINATE NAMEPLATE WITH 2" LETTERS VISIBLE ADJACENT TO DISCONNECT SWITCH FOR ROOFTOP UNITS AND ROOF MOUNTED FANS WITH THE AREAS UNITS SERVE.
17. HVAC CONTROLS WORK SHALL BE INSTALLED AS FOLLOWS:
    - ALL LINE VOLTAGE WIRING, CONDUIT, DISCONNECT SWITCHES AND FINAL CONNECTION TO EQUIPMENT SHALL BE BY THE ELECTRICAL CONTRACTOR.
    - ALL LOW VOLTAGE WIRING/CONDUIT SHALL BE BY MECHANICAL CONTRACTOR.
    - REMOTE ZONE COMBINATION TEMPERATURE/HUMIDITY SENSORS SHALL BE WALL MOUNTED AT **48" AFF**, AND CLEARLY LABELED.
    - PROGRAMMABLE THERMOSTATS SHALL BE WALL MOUNTED AT **48" AFF** AND VERTICALLY STACKED AND CLEARLY LABELED.
    - TEMPERATURE CONTROL OF THE ROOFTOP UNIT OPERATION SHALL BE MADE BY WIRING FROM THE COMBINATION SENSOR BACK TO THE RESPECTIVE PROGRAMMABLE THERMOSTAT IN THE MANAGER'S OFFICE AND THEN TO THE APPROPRIATE ROOFTOP UNIT CONTROL BOARD. WIRING SHALL BE MADE WITH A SHIELDED 4-20mA SIGNAL GROUNDED TWISTED PAIR INSTALLED WITH CONTINUOUS NON-SPLICED LENGTH BETWEEN EACH DEVICE CONNECTION.
    - HUMIDITY CONTROL OF THE ROOFTOP UNIT OPERATION SHALL BE MADE BY WIRING FROM THE COMBINATION SENSOR **DIRECT** BACK TO THE APPROPRIATE ROOFTOP UNIT CONTROL BOARD. WIRING SHALL BE MADE WITH A SHIELDED 4-20mA SIGNAL GROUNDED TWISTED PAIR INSTALLED WITH CONTINUOUS NON-SPLICED LENGTH BETWEEN EACH DEVICE CONNECTION.
    - ROOFTOP UNITS SHALL BE SET TO RUN IN "FAN CONTINUOUS" MODE DURING OCCUPIED HOURS. DURING NIGHT SET-BACK HOURS, THE ROOFTOP UNITS SHALL RUN IN "FAN AUTO" MODE.
18. ALL HVAC SUPPLY AND RETURN DUCTWORK SHALL BE INSTALLED AS FOLLOWS:
    - **CONCEALED** HVAC AND MAKEUP AIR DUCTWORK WITHIN THE BUILDING SHALL BE EXTERNALLY WRAPPED AND SECURED WITH **MINIMUM R-8.0, 2"** INSULATION WITH VAPOR BARRIER PER **THE 2021 UNIFORM MECHANICAL CODE, WITH LOCAL AMENDMENTS**. INSULATION SHALL HAVE MAXIMUM RATINGS OF 25 FLAME SPREAD, 50 SMOKE DEVELOPED.
    - **EXPOSED** DUCTWORK WITHIN THE BUILDING SHALL BE INTERNALLY LINED AND PINNED WITH **MINIMUM R-6.0, 1-1/2"** INSULATION WITH VAPOR BARRIER PER **THE 2021 UNIFORM MECHANICAL CODE WITH LOCAL AMENDMENTS**. INSULATION SHALL HAVE MAXIMUM RATINGS OF 25 FLAME SPREAD, 50 SMOKE DEVELOPED. EXPOSED DUCTWORK SHALL BE INSTALLED COMPLETE WITH FACTORY APPLIED PAINT GRIP FINISH, SUITABLE FOR FINAL FIELD APPLIED PAINT BY GC.
    - DUCT CONSTRUCTION SHALL BE OF GALVANIZED STEEL. GAUGES, SWAY BRACING (AS REQUIRED) AND SUSPENSION SHALL CONFORM TO SMACNA STANDARDS. SEAL ALL SEAMS AND JOINTS AIR AND WATERTIGHT. FLEXIBLE ALUMINUM DUCTWORK OR FIBERGLASS DUCTBOARD IS NOT ALLOWED (UNO).
    - **ROOF MOUNTED** DUCTWORK ON THE BUILDING SHALL BE EXTERNALLY WRAPPED AND SECURED WITH **MINIMUM R-8.0, 2"** INSULATION WITH VAPOR BARRIER PER **THE 2021 UNIFORM MECHANICAL CODE, WITH LOCAL AMENDMENTS**. INSULATION SHALL HAVE MAXIMUM RATINGS OF 25 FLAME SPREAD, 50 SMOKE DEVELOPED. INSTALL COMPLETE WITH A FINAL EXTERIOR LAYER OF CORROSION RESISTANT 24 GA. GALVANIZED SHEET METAL WITH A 1/12" TOP PITCH TO PREVENT STANDING WATER.
19. ALL PENETRATIONS IN FIRE RATED WALL ASSEMBLIES SHALL BE SEALED WITH UL LISTED FIRE STOPPING MATERIAL.
20. ALL KITCHEN EXHAUST DUCTWORK SHALL BE INSTALLED AS FOLLOWS:
    - ALL **TYPE II** CONDENSATE EXHAUST DUCTWORK SHALL BE CORROSION RESISTANT 18 GA. STAINLESS STEEL (UNO), EXTERNALLY WELDED WITH LIGUID TIGHT JOINTS, SEAMS, AND SMOOTH RADIUS ELBOWS AND TRANSITIONS.
    - ALL **TYPE I** GREASE EXHAUST DUCTS SHALL BE NFPA 96 APPROVED 16 GA. WELDED BLACK IRON, EXTERNALLY WELDED WITH LIQUID TIGHT JOINTS, SEAMS, AND SMOOTH RADIUS ELBOWS AND TRANSITIONS.
    - ALL TYPE I COOKLINE GREASE EXHAUST DUCTWORK SHALL BE DOUBLE WRAPPED WITH U.L. LISTED FIRE WRAP SIMILAR TO 3M FIRE BARRIER DUCT WRAP 20A IN ACCORDANCE WITH MANUF.'S INSTALLATION INSTRUCTIONS. EACH GREASE DUCT RISER SHALL BE WRAPPED TO THE FULL EXTENT POSSIBLE FROM THE HOOD COLLAR CONNECTION UP TO THE TERMINATION AT THE EXHAUST FAN INLET. ALL GREASE EXHAUST FAN ROOF CURBS SHALL BE VENTED PER NFPA 96. PROVIDE REQUIRED ACCESS FOR SERVICING AND CLEANING, VERIFY THE HINGED CURB OPENING OPERATES PROPERLY.
    - EACH GREASE EXHAUST DUCT RISER BETWEEN THE HOOD COLLAR AND EXHAUST FAN SHALL BE OF THE SAME SIZE AS THE RESPECTIVE HOOD COLLAR SIZE, UNO. REFER TO THE HOOD SHEETS FOR THE HOOD COLLAR SIZES AS SPECIFIED BY THE HOOD MANUFACTURER.
21. ALL GREASE EXHAUST FAN ROOF CURBS SHALL BE VENTED PER NFPA 96. PROVIDE REQUIRED ACCESS FOR SERVICING AND CLEANING, AND VERIFY THE HINGED CURB OPENING OPERATES PROPERLY.
22. ROOF CURBS FOR EXHAUST FANS AND THE MAKEUP AIR UNIT SHALL BE FACTORY FABRICATED AND FURNISHED WITH THE HOOD PACKAGE. VERIFY REQUIREMENTS FOR THE ROOF CURBS WITH THE EQUIPMENT SUPPLIER. THE GENERAL CONTRACTOR SHALL FLASH ROOF CURBS AND SHIM DEAD LEVEL. COORDINATE EXACT SIZE AND LOCATION OF ROOF OPENINGS WITH THE STRUCTURAL FRAMING. CUTTING OF STRUCTURAL MEMBERS IS NOT PERMITTED.
23. ROOF CURBS FOR ROOFTOP UNITS SHALL BE FACTORY FABRICATED OF FULL WELDED STEEL CONSTRUCTION WITH WOOD NAILER, AND FURNISHED WITH THE HVAC EQUIPMENT PACKAGE. VERIFY REQUIREMENTS FOR THE ROOF CURBS WITH THE EQUIPMENT SUPPLIER. THE GENERAL CONTRACTOR SHALL FIELD ASSEMBLE THE ROOF CURBS, FLASH AND SHIM DEAD LEVEL. COORDINATE EXACT SIZE AND LOCATION OF ROOF OPENINGS WITH THE STRUCTURAL FRAMING. CUTTING OF STRUCTURAL MEMBERS IS NOT PERMITTED.
24. THE KITCHEN EXHAUST HOODS SHALL BE INSTALLED AT **6'-8" AFF** (UNO). COORDINATE INSTALLATION AND PLACEMENT OF EXHAUST HOODS WITH ARCHITECTURAL REFLECTED CEILING PLAN.
25. THE KITCHEN HOOD PACKAGE WILL BE FURNISHED WITH UTILITY END CABINETS HOUSING THE FIRE SUPPRESSION TANKS, ELECTRICAL PREWIRE PACKAGE, HOOD EXHAUST FAN SWITCHES, AND LIGHT SWITCHES.
26. REFER TO MANUFACTURER SHEETS FOR THE HOOD CONTROL WIRING DIAGRAM FOR OPERATION OF THE KITCHEN HOOD EQUIPMENT.
27. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING THE AIR FILTERS AT THE ROOFTOP UNITS WITH 2" THICK PLEATED **MERV 8** THROW AWAY TYPE AIR FILTERS AT THE COMPLETION OF CONSTRUCTION AND PRIOR TO AIR BALANCE AND STORE TURNOVER.
28. PER **THE 2021 UNIFORM MECHANICAL CODE, WITH LOCAL AMENDMENTS** WHEN REQUIRED, EACH SINGLE SYSTEM PROVIDING HEATING OR COOLING AIR IN EXCESS OF 2000 CUBIC FEET PER MINUTE SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF. AUTOMATIC SHUTOFF SHALL BE ACCOMPLISHED BY INTERRUPTING THE POWER SOURCE OF AIR MOVING EQUIPMENT DEVICES WHICH WILL DETECT PRODUCTS OF COMBUSTION OTHER THAN HEAT, AND WHICH COMPLY WITH THE APPLICABLE BUILDING CODE, SHALL BE LABELED BY AN APPROVED AGENCY FOR AIR DUCT INSTALLATION AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUCH DEVICES SHALL BE COMPATIBLE WITH OPERATING VELOCITIES, PRESSURES, TEMPERATURES AND HUMIDITIES OF THE SYSTEM WHERE FIRE DETECTION OR ALARM SYSTEMS ARE PROVIDED FOR THE BUILDING, SMOKE DETECTORS SHALL BE SUPERVISED BY SUCH SYSTEMS.
29. MC SHALL BE ON SITE AND PRESENT AT THE DATE OF STORE TURNOVER.

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TBPE FIRM REGISTRATION# F-11678

JOHN G. SISK
101280

05/24/2024
ISSUE FOR CONSTRUCTION

LORO'S ASIAN SMOKEHOUSE & BAR
AUSTIN, TX
11601 DOMAIN DR. #200
AUSTIN, TEXAS 78758

CLIENT: HAI HOSPITALITY
1306 W. OLTORF STREET, SUITE C
AUSTIN, TEXAS 78704

LORO
ASIAN SMOKEHOUSE & BAR

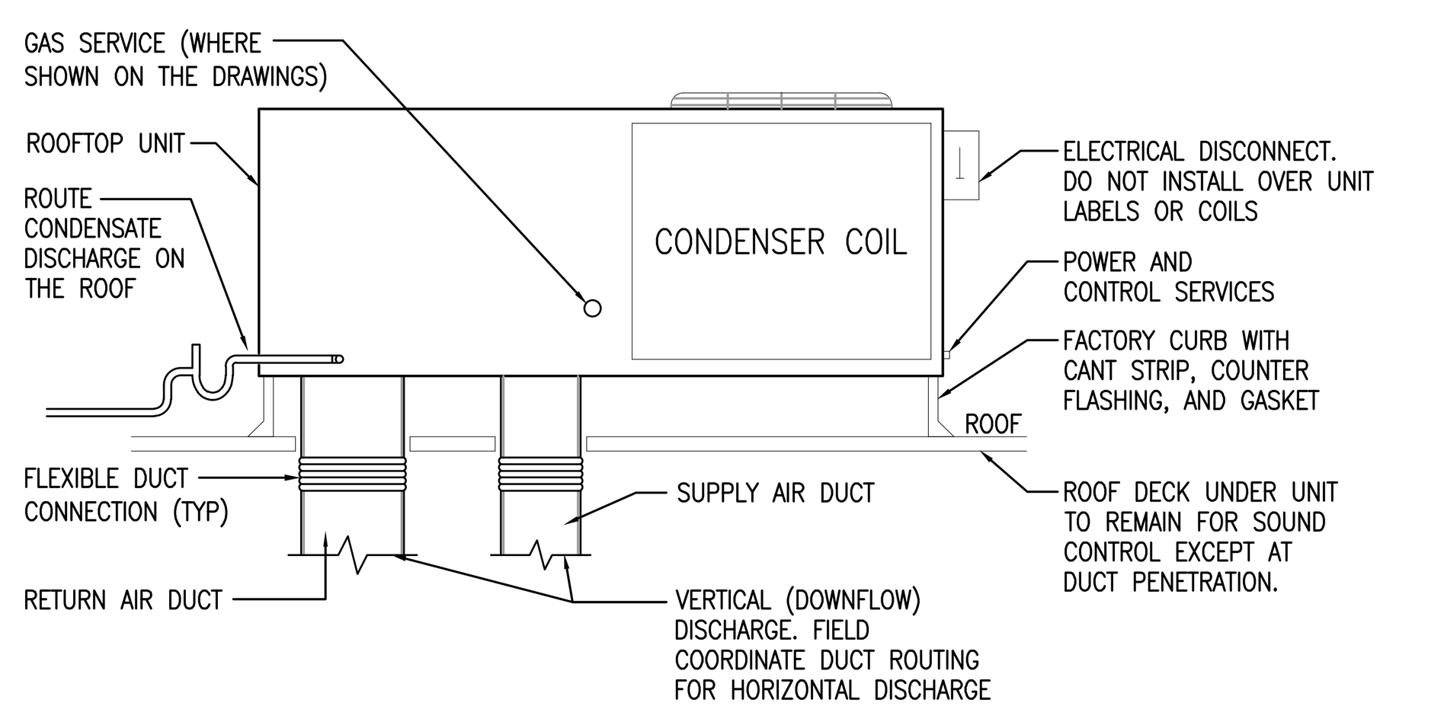
DATE	DESCRIPTION
10.27.2023	ISSUE FOR PERMIT
04.12.2024	ISSUE FOR CONSTRUCTION

△	DATE	DESCRIPTION
A	01/15/24	ADDENDUM A - CITY COMMENTS
1	02/05/24	OWNER COMMENTS - VE
2	02/27/24	OWNER COMMENTS - VE
3	04/12/24	OWNER COMMENTS - VE
4	06/10/24	OWNER COMMENTS - VE

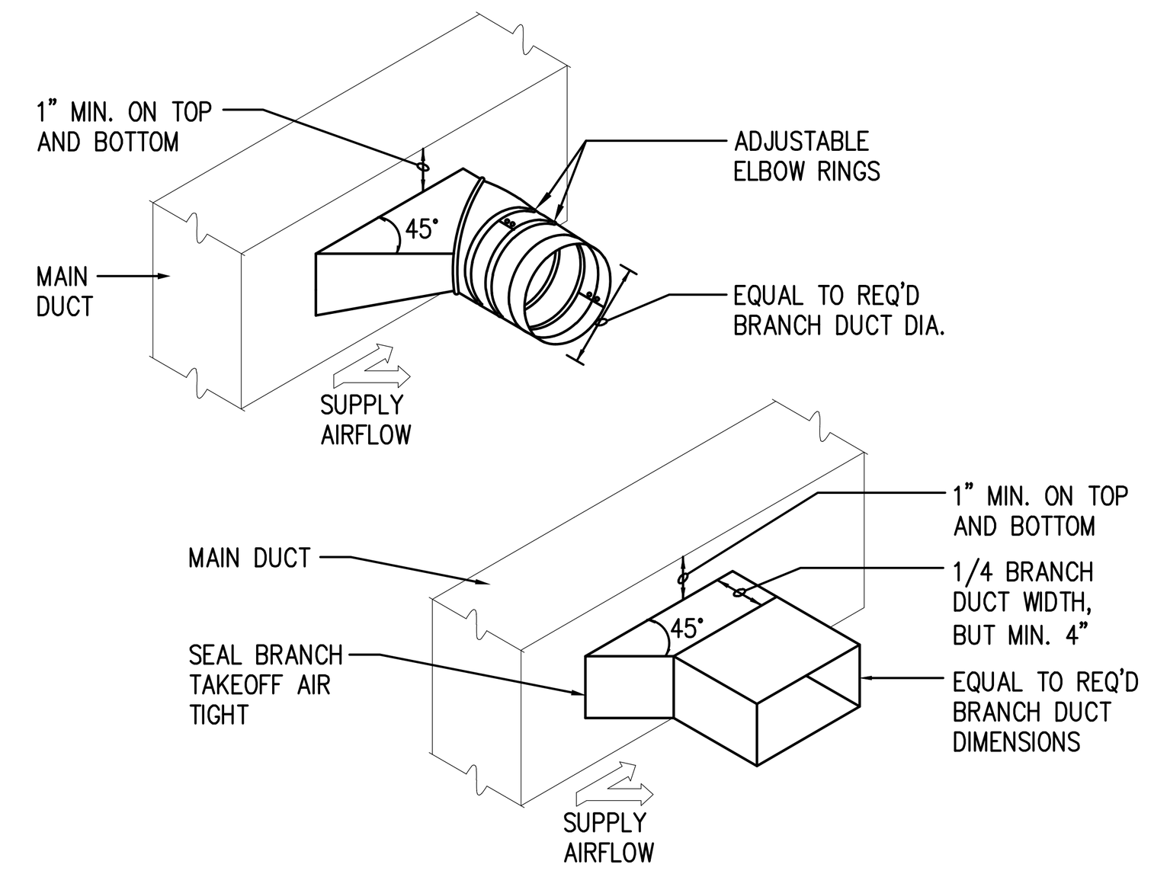
SHEET TITLE:
MECHANICAL SCHEDULES

SHEET NUMBER:
M2.0

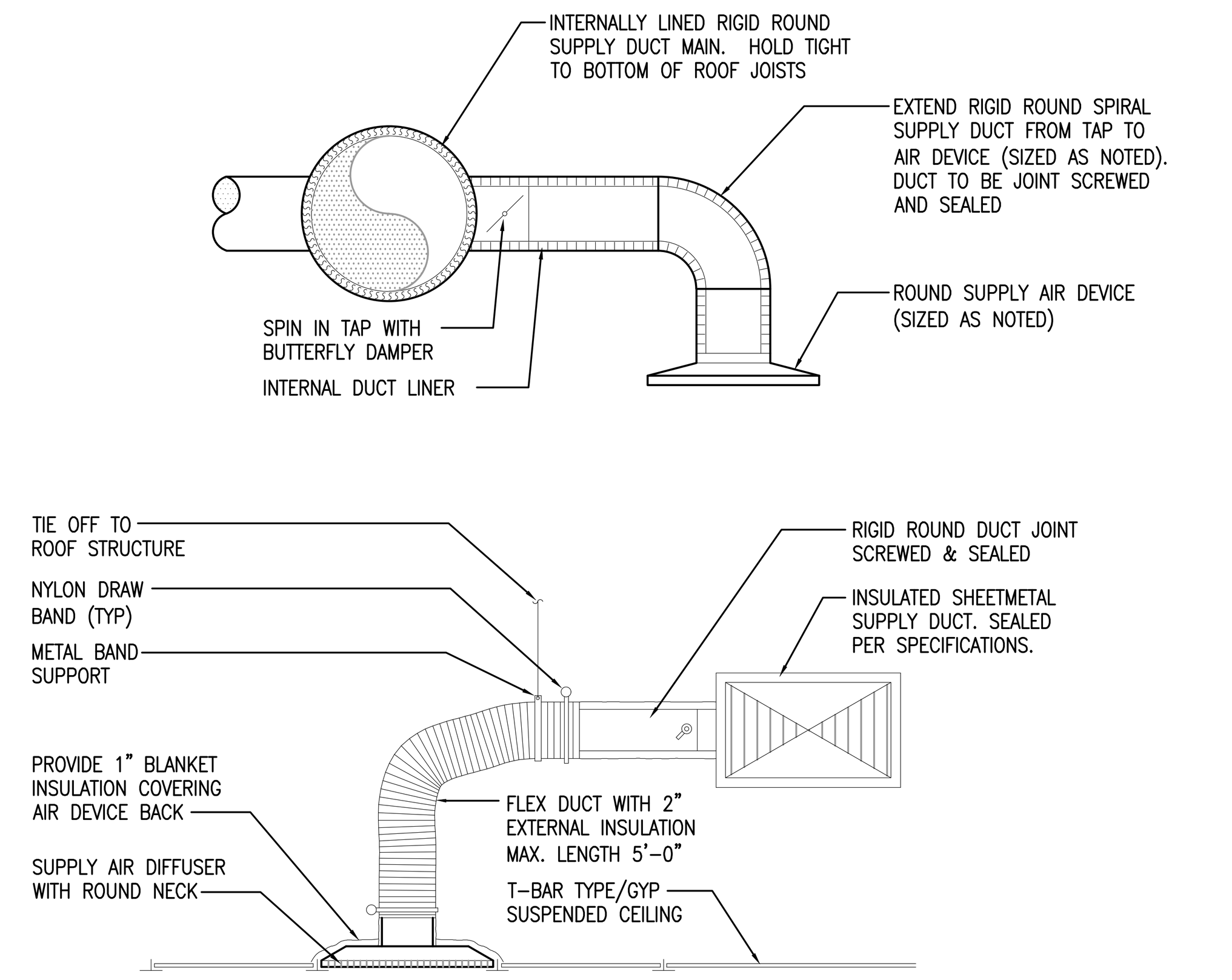
PROJECT NUMBER:
LAS23001



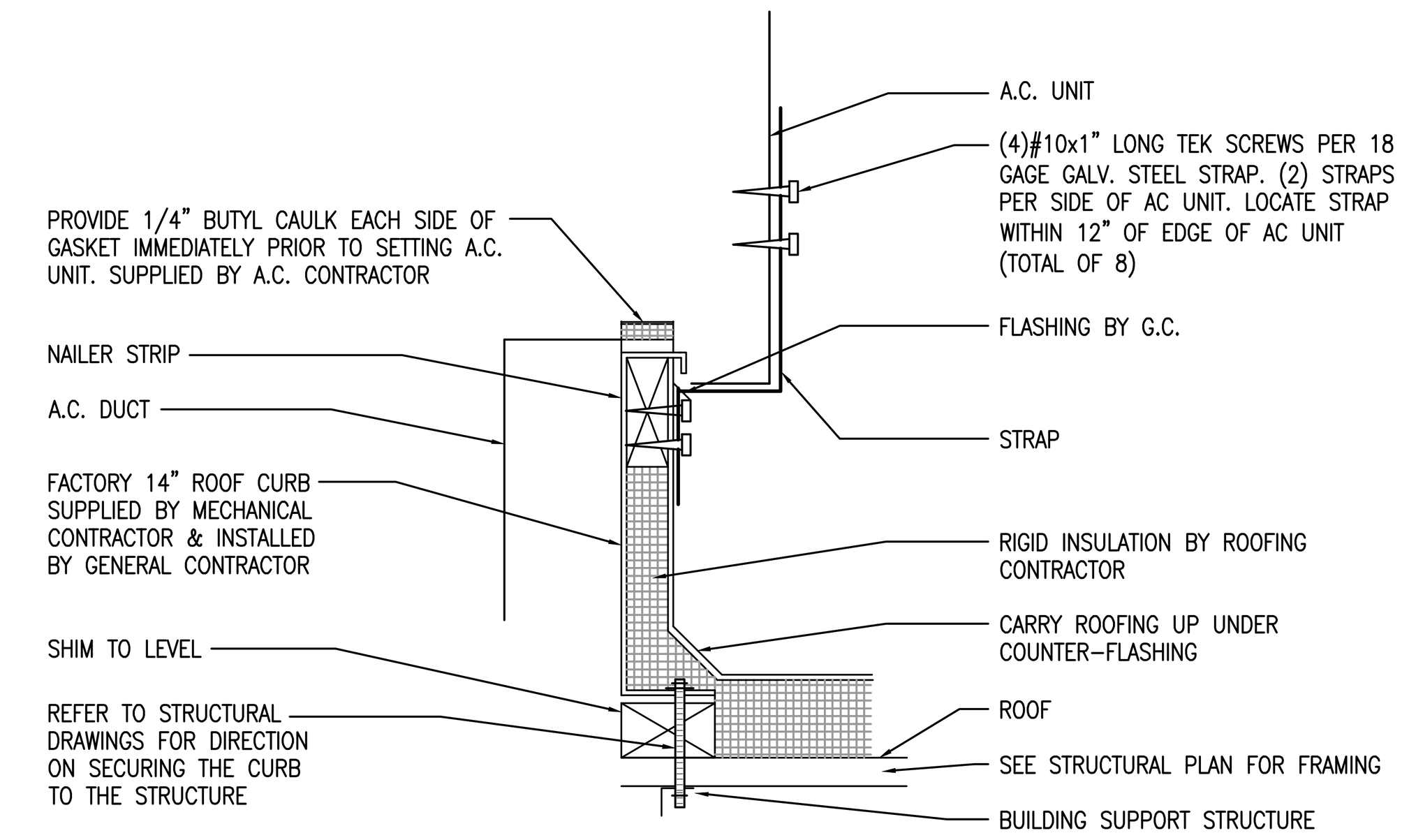
ROOFTOP UNIT DETAIL 1
SCALE: NONE



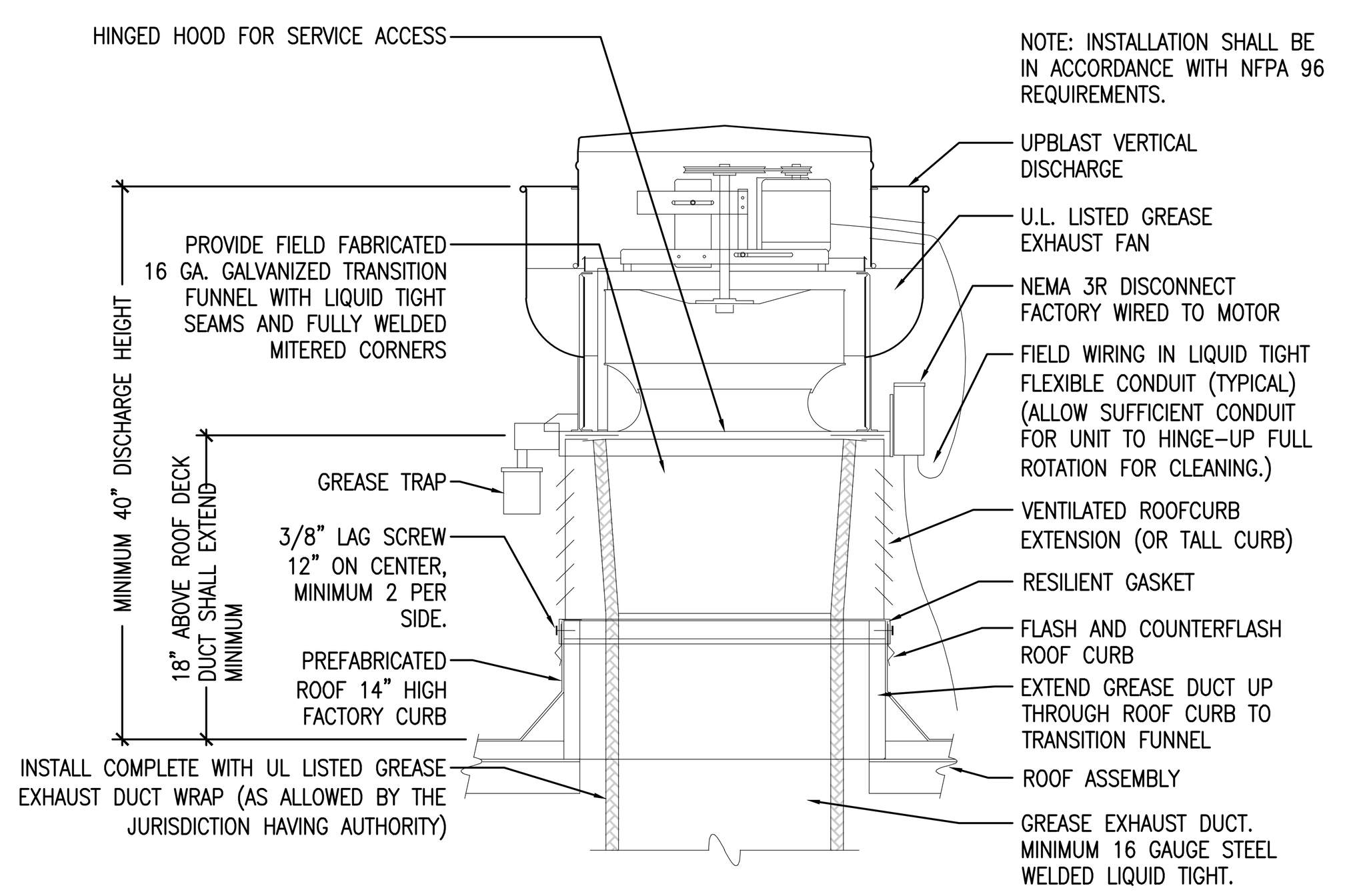
BRANCH TAKE-OFF FITTING DETAIL 2
SCALE: NONE



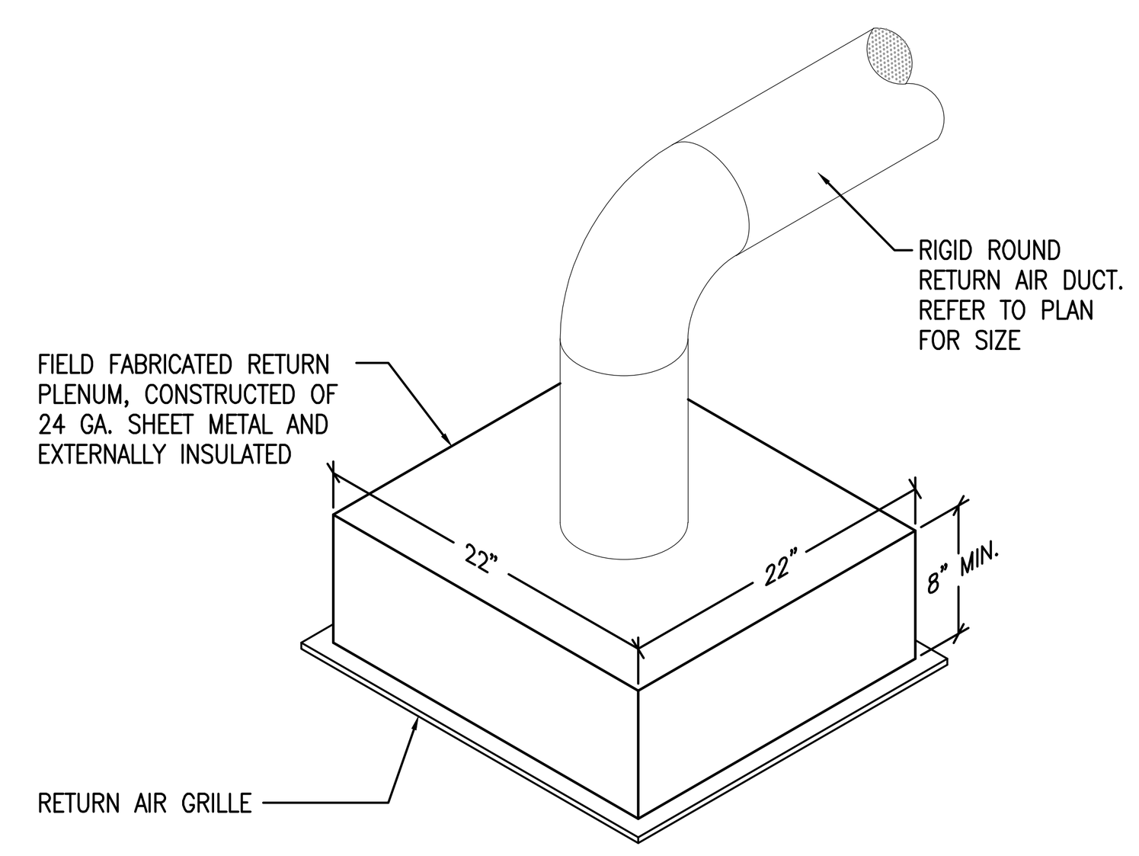
SUPPLY DUCT TAKE-OFF DETAIL 3
SCALE: NONE



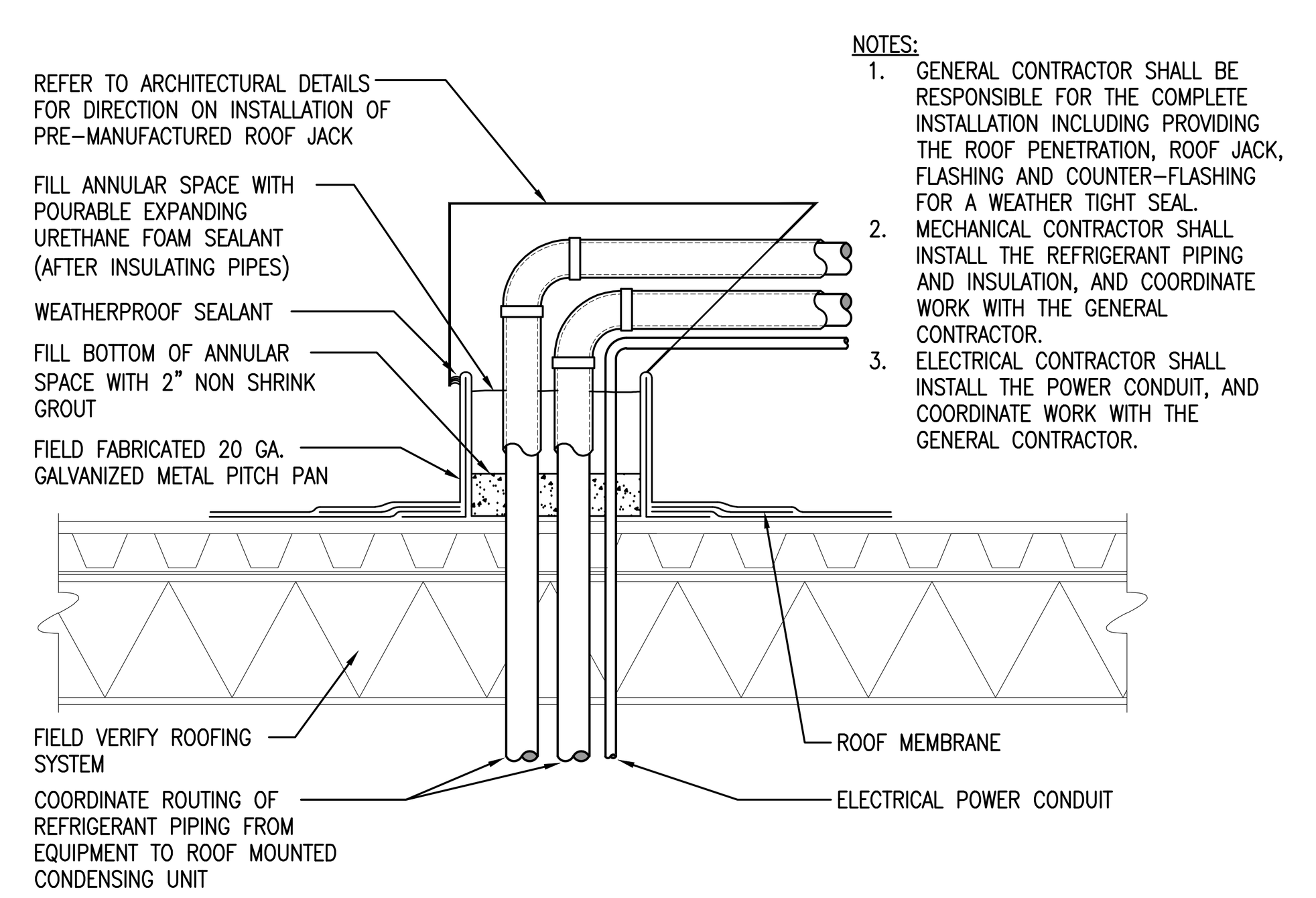
PACKAGED ROOFTOP UNIT CURB BASE DETAIL 4
SCALE: NONE



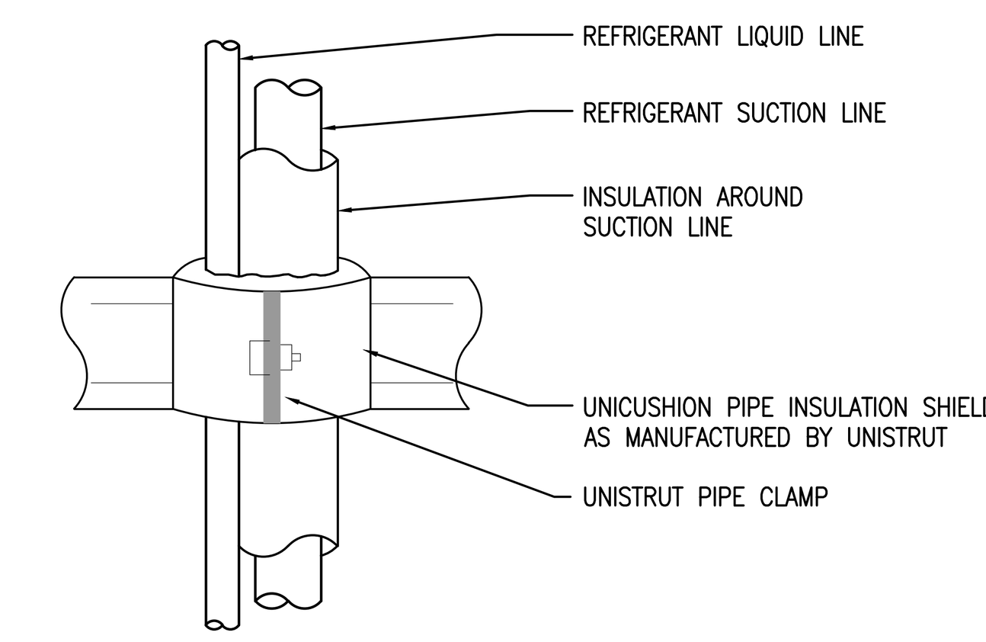
KITCHEN UPBLAST GREASE EXHAUST FAN DETAIL 5
SCALE: NONE



CEILING MNTD. RETURN AIR GRILLE DETAIL 6
SCALE: NONE



PIPING AND CONDUIT ROOF PENETRATION DETAIL 7
SCALE: NONE



NOTES:

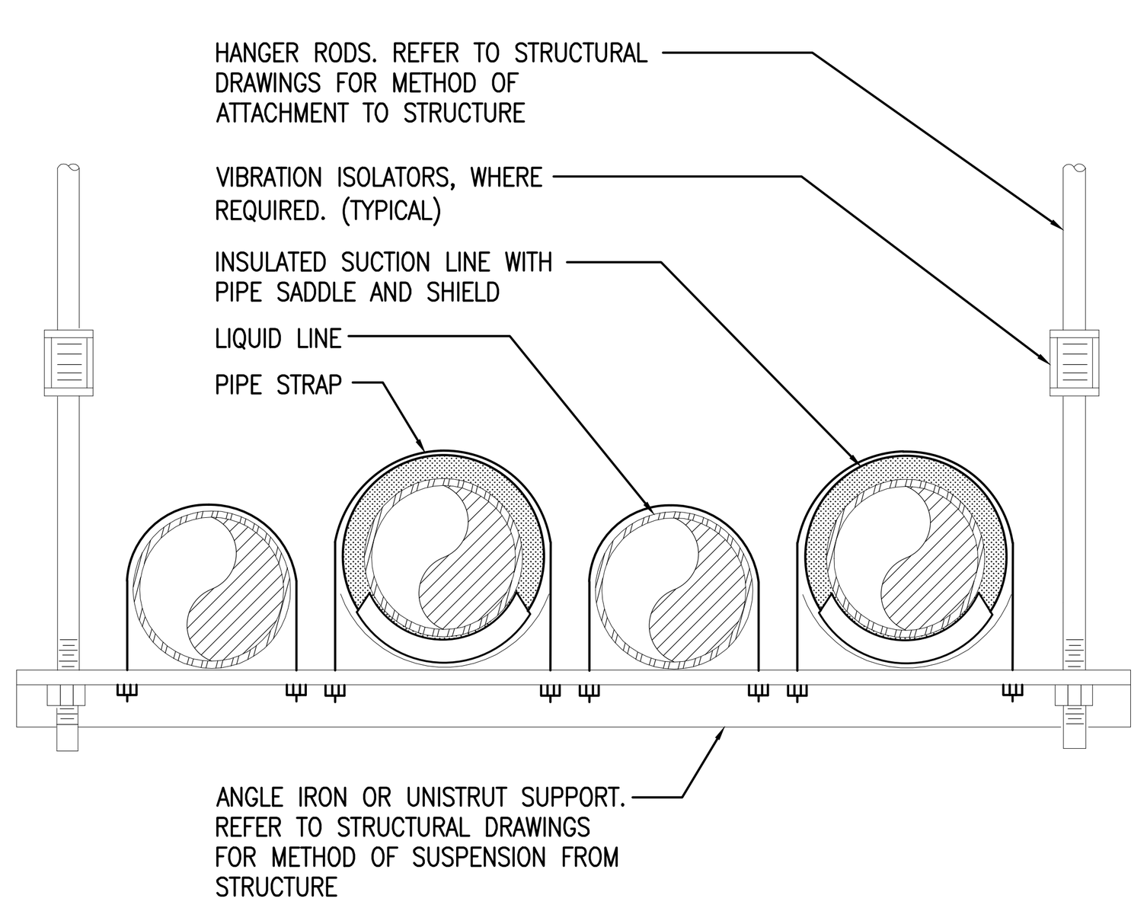
1.) LIQUID AND SUCTION LINES MAY BE ROUTED TOGETHER FOR CONVENIENCE, BUT MUST BE COMPLETELY INSULATED FROM EACH OTHER. DO NOT SOLDER LIQUID AND SUCTION LINES TOGETHER. DO NOT ALLOW METAL TO METAL CONTACT.

2.) LINES SHOULD BE INSTALLED WITH AS FEW BENDS AS POSSIBLE, ALLOWING SERVICE ACCESS TO THE INDOOR COIL.

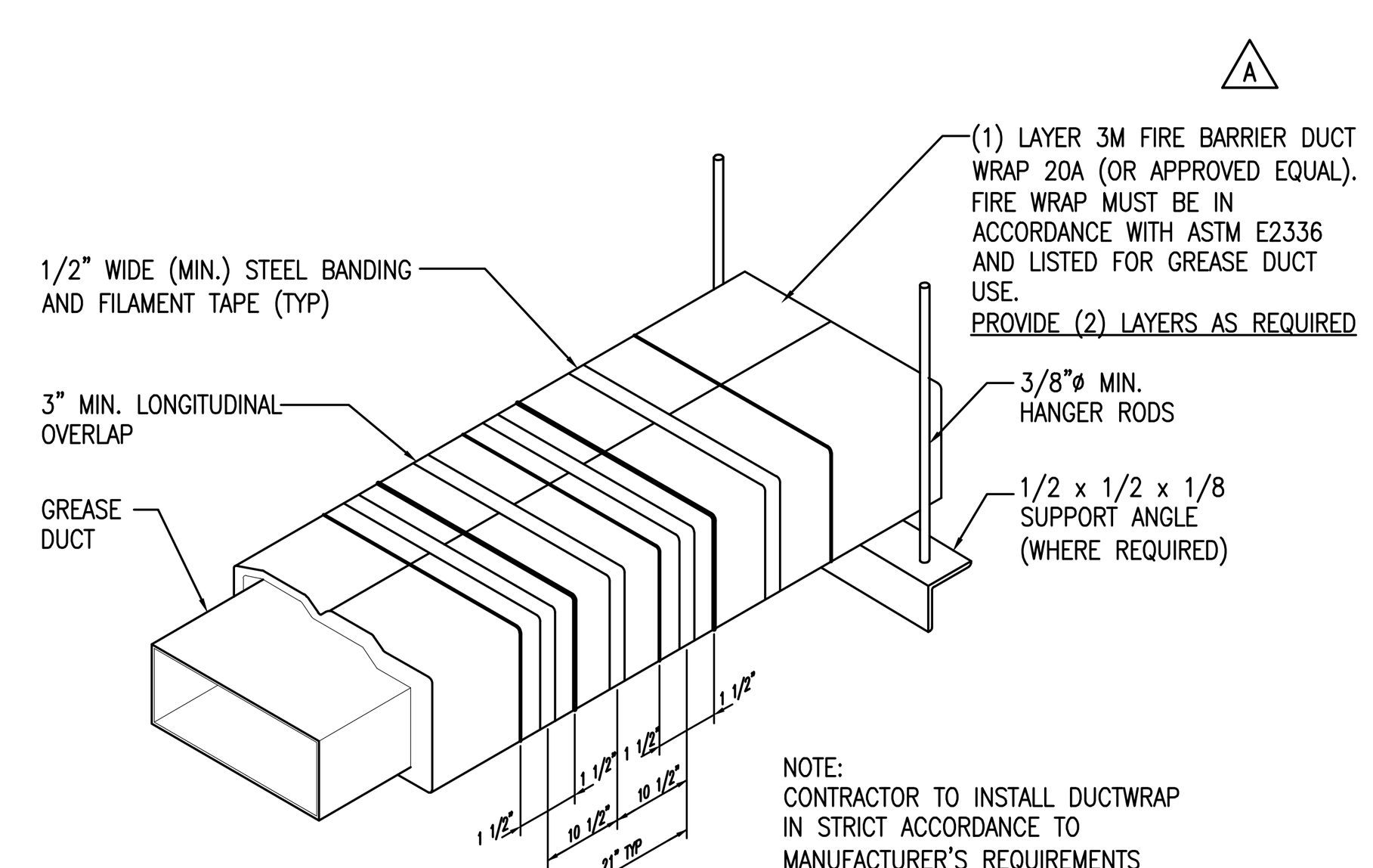
3.) USE LONG RADIUS ELBOWS WHEREVER POSSIBLE, EXCEPT IN OIL RETURN TRAPS, WHERE SHORT RADIUS ELBOWS SHOULD BE USED.

4.) REFER TO MANUFACTURER'S GUIDELINES FOR THE COMPLETE INSTALLATION.

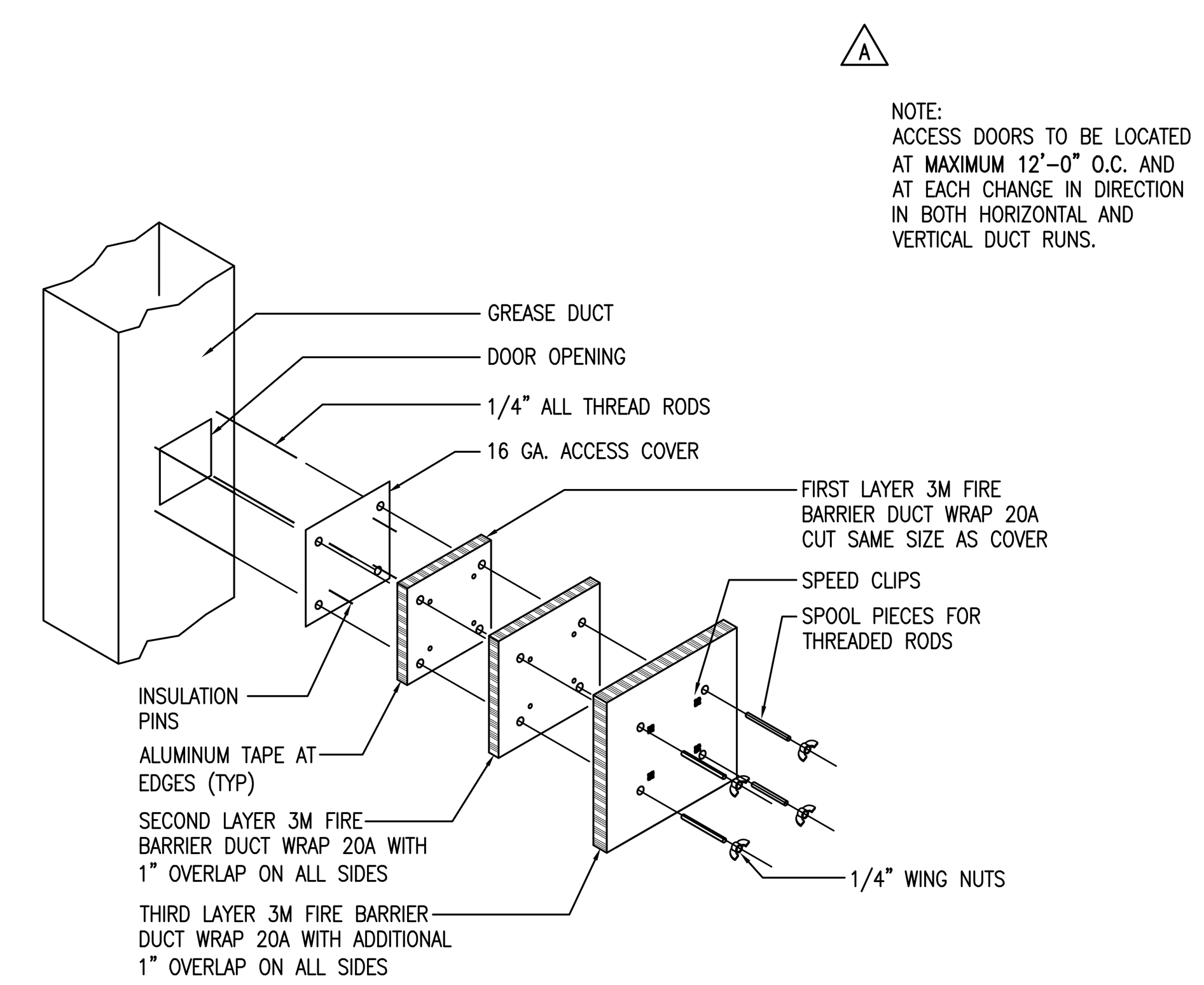
VERTICAL REFRIGERANT PIPE SUPPORT DETAIL 8
SCALE: NONE



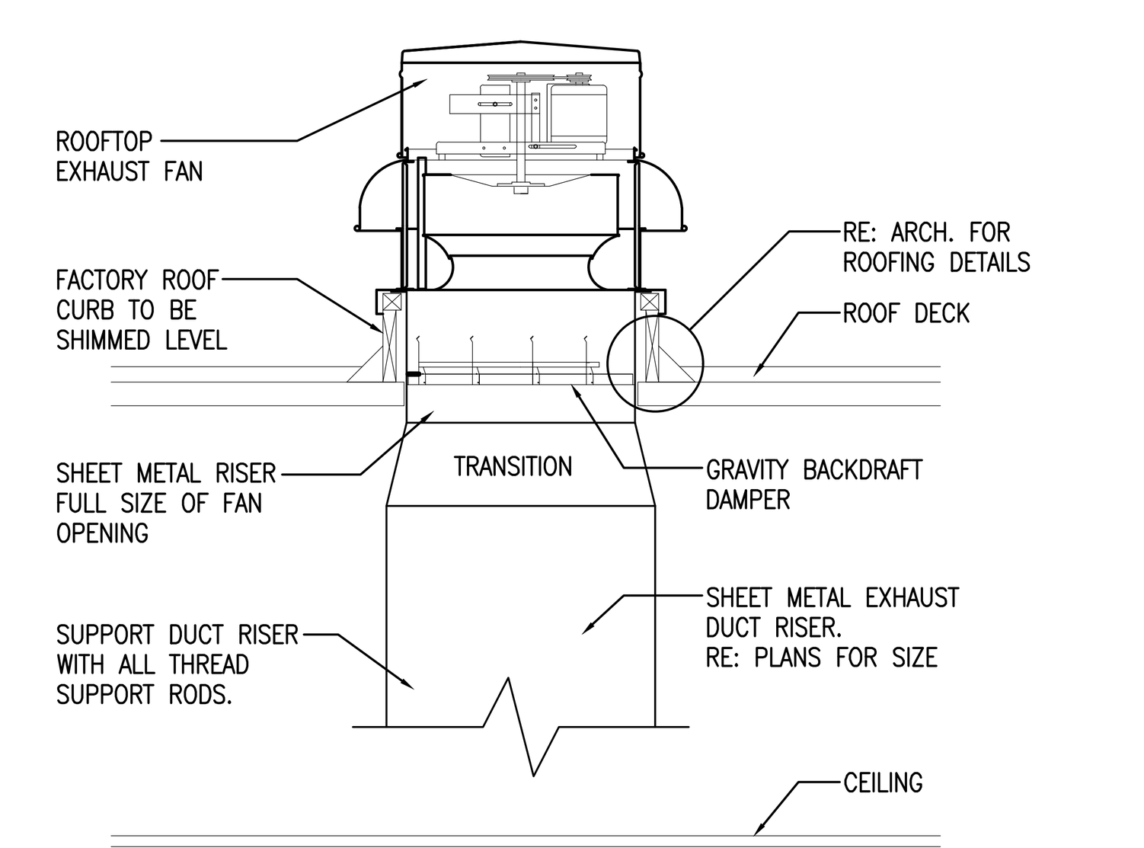
HORIZONTAL REFRIGERANT PIPE SUPPORT DETAIL 9
SCALE: NONE



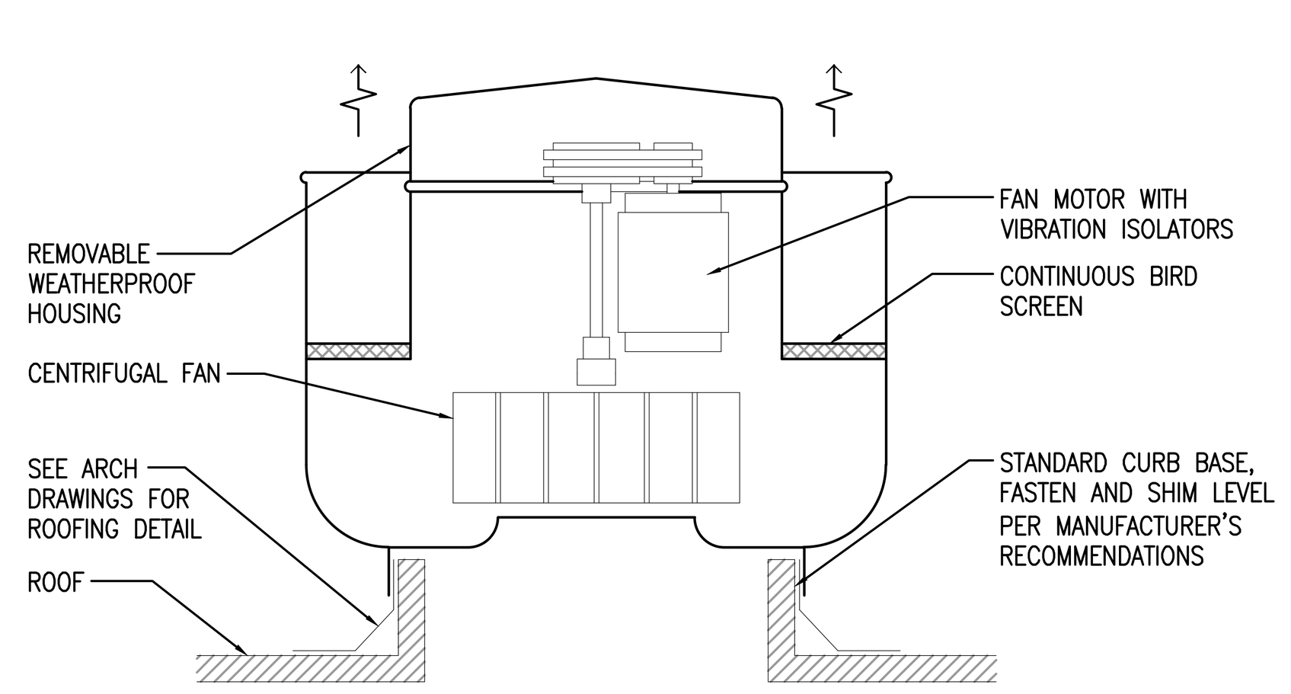
UL LISTED GREASE EXHAUST DUCT WRAP DETAIL 10
SCALE: NONE



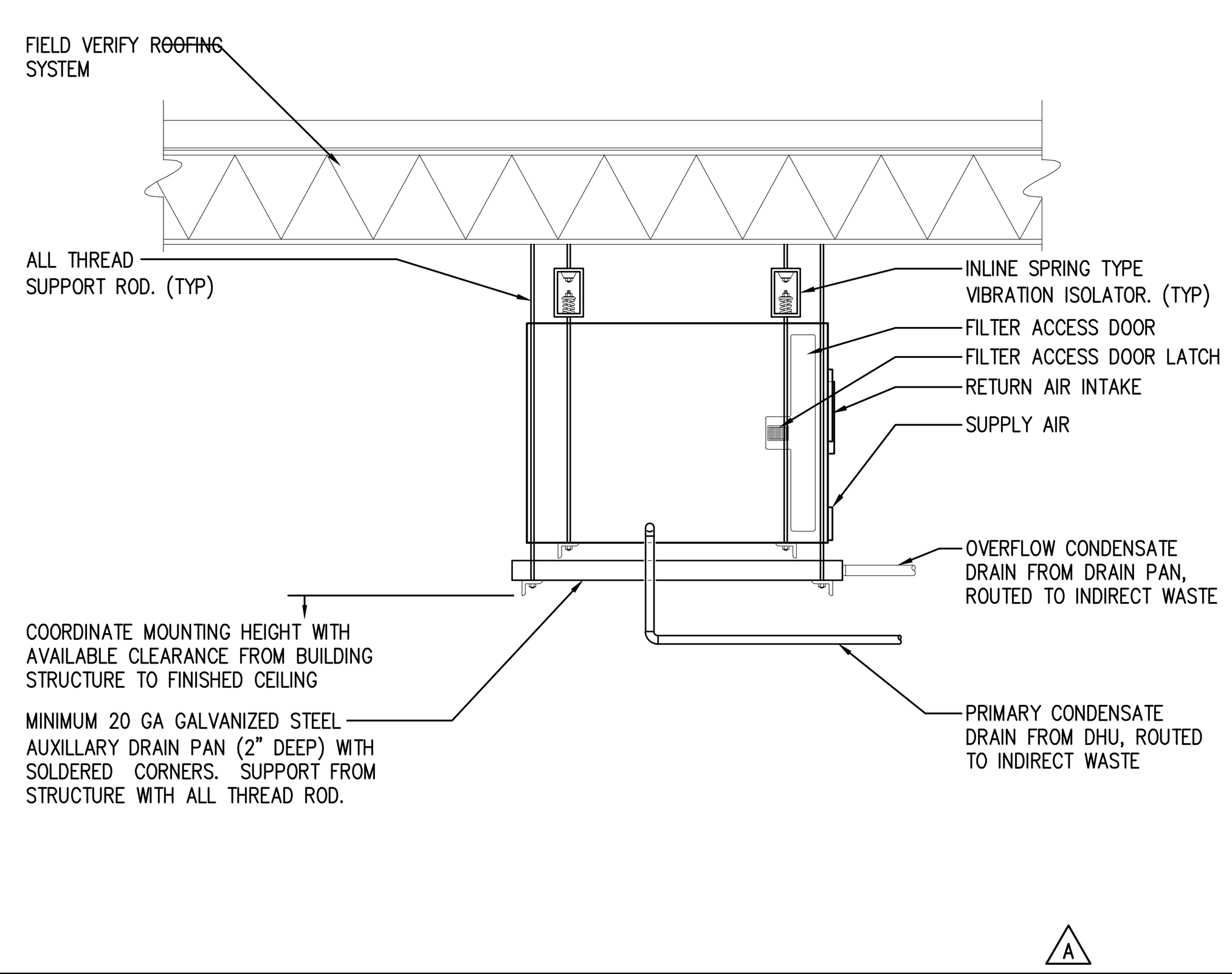
UL LISTED GREASE EXHAUST DUCT ACCESS DOOR DETAIL 11
SCALE: NONE



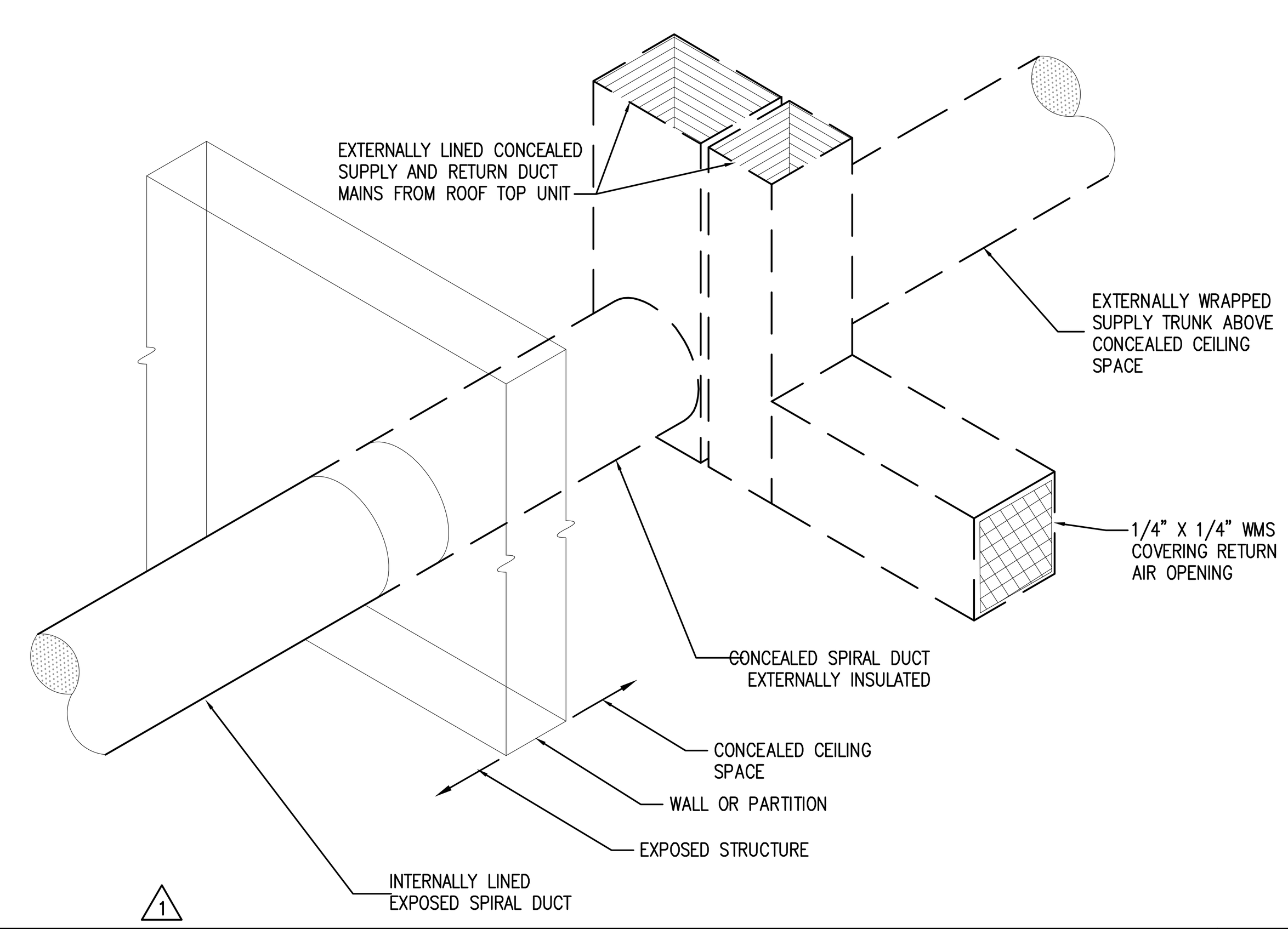
RESTROOM DOWNBLAST EXHAUST FAN DETAIL 12
SCALE: NONE



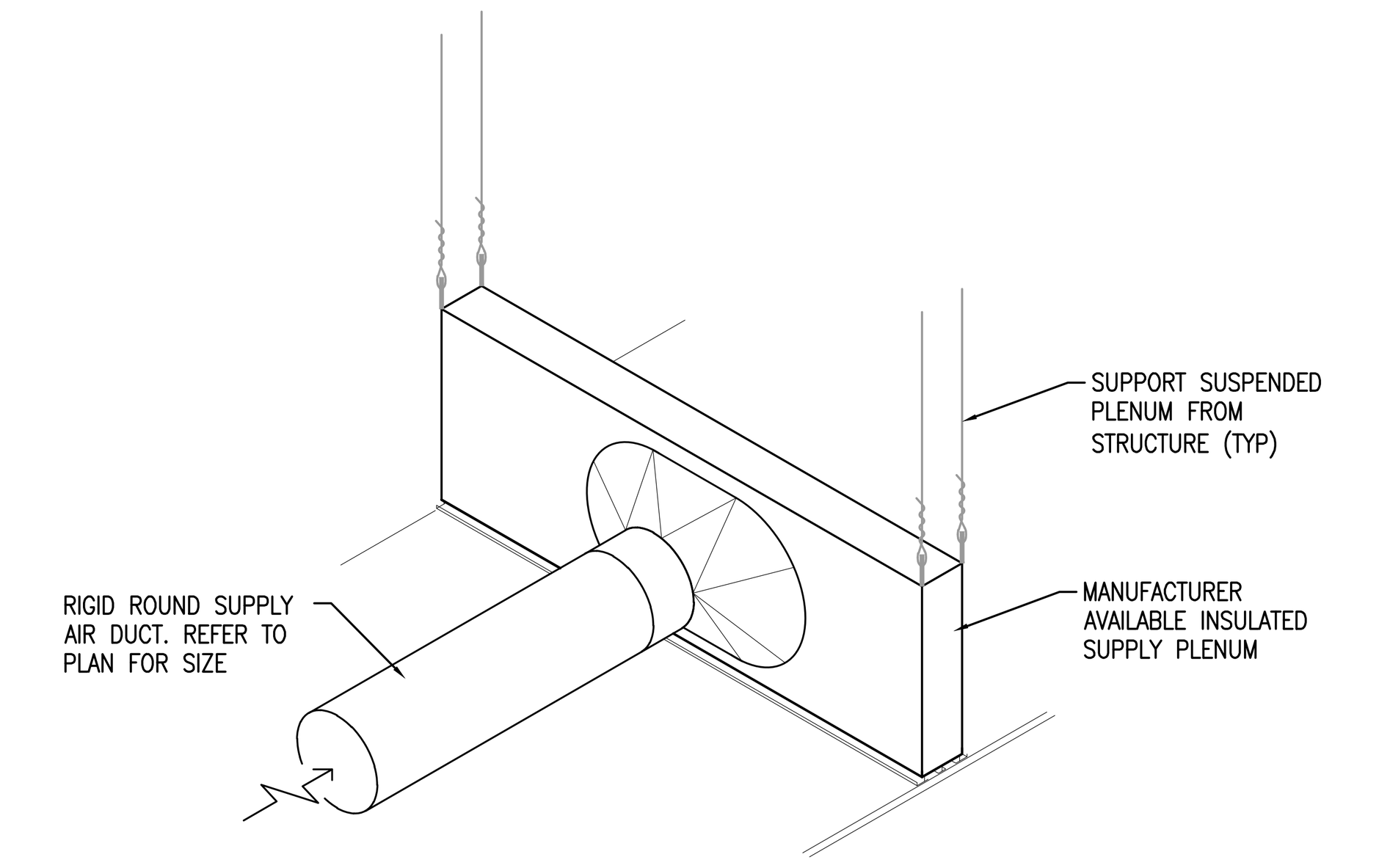
DISHMACHINE UPBLAST EXHAUST FAN DETAIL 13
SCALE: NONE



SUSPENDED DEHUMIDIFICATION UNIT DETAIL 14
SCALE: NONE



EXPOSED DUCTWORK LAYOUT SCHEMATIC 15
SCALE: NONE



LINEAR SLOT DIFFUSER WITH SIDE CONNECTION DETAIL 16
SCALE: NONE

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www.haihospitality.com

TBPE FIRM REGISTRATION# F-11678

STATE OF TEXAS
JOHN G. SISK
101280
LICENSED PROFESSIONAL ENGINEER

05/24/2024
ISSUE FOR CONSTRUCTION

LORO'S ASIAN SMOKEHOUSE & BAR AUSTIN, TX

11601 DOMAIN DR. #200
AUSTIN, TEXAS 78758

CLIENT: HAI HOSPITALITY
1306 W. OLTORF STREET, SUITE C
AUSTIN, TEXAS 78704

LORO ASIAN SMOKEHOUSE & BAR

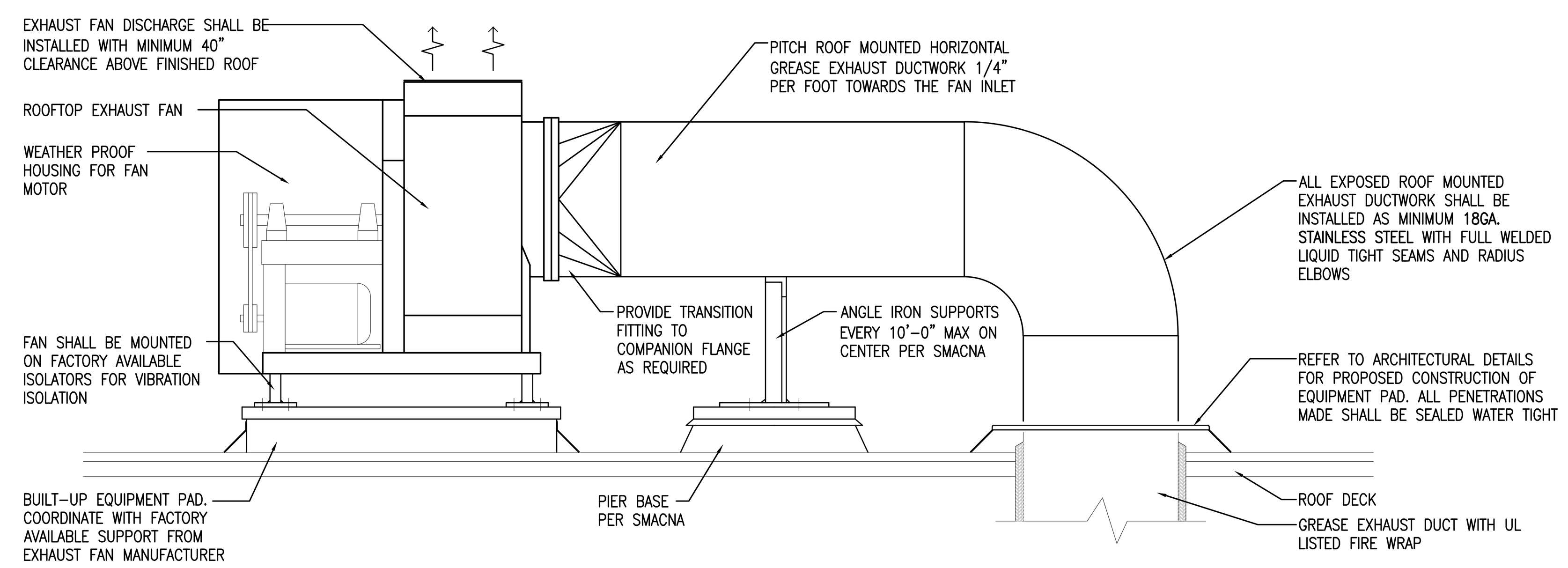
DATE	DESCRIPTION
10.27.2023	ISSUE FOR PERMIT
04.12.2024	ISSUE FOR CONSTRUCTION

△	DATE	DESCRIPTION
A	01/15/24	ADDENDUM A - CITY COMMENTS
1	02/05/24	OWNER COMMENTS - VE

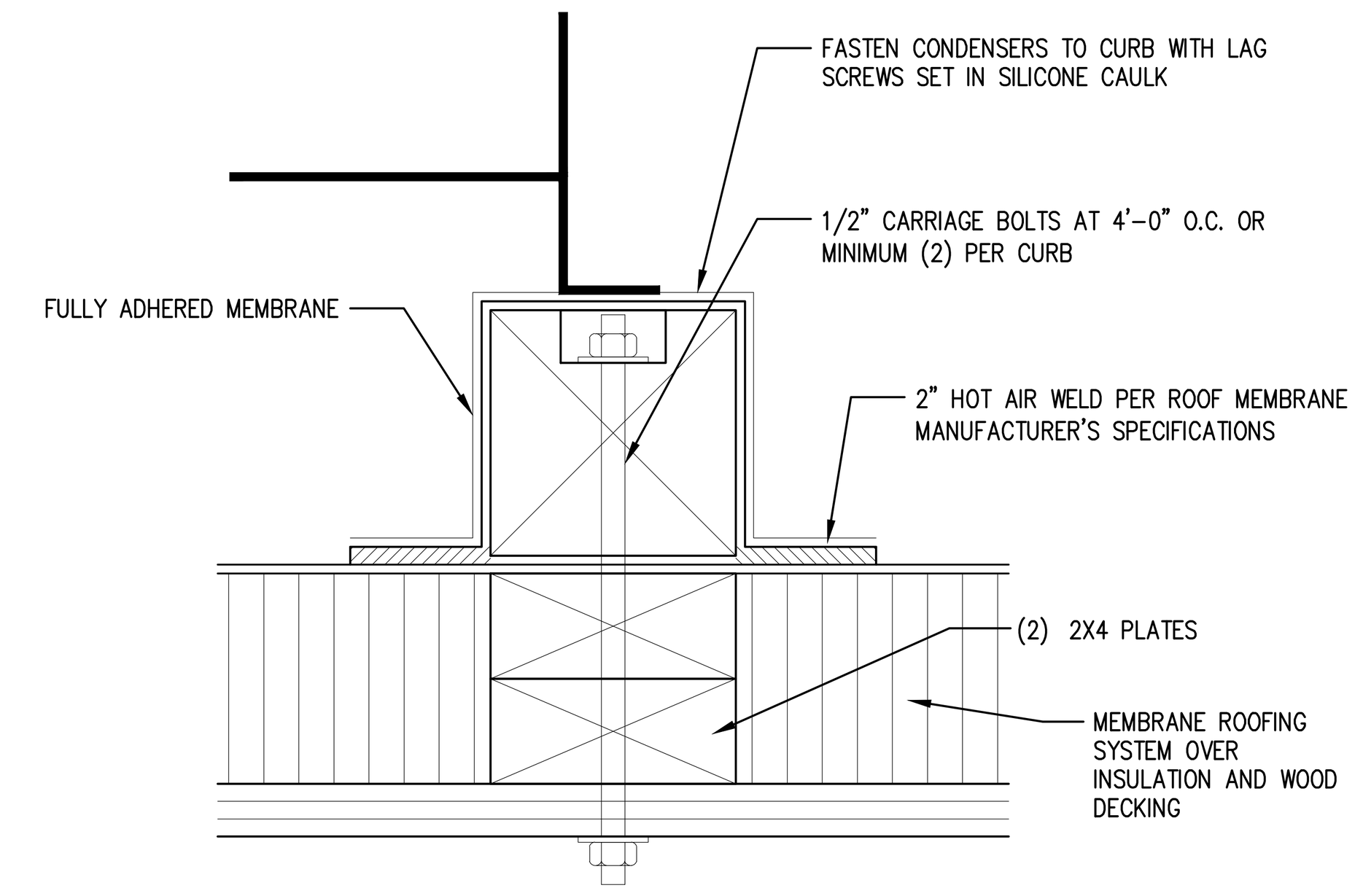
SHEET TITLE:
MECHANICAL DETAILS

SHEET NUMBER:
M3.0

PROJECT NUMBER:
LAS23001



COMMERCIAL KITCHEN UTILITY EXHAUST FAN DETAIL 1
SCALE: NONE



COMPRESSOR CURB DETAIL 2
SCALE: NONE

NOT USED 3
SCALE: NONE

NOT USED 4
SCALE: NONE

NOT USED 5
SCALE: NONE

NOT USED 6
SCALE: NONE

NOT USED 7
SCALE: NONE

NOT USED 8
SCALE: NONE

NOT USED 9
SCALE: NONE

NOT USED 10
SCALE: NONE

NOT USED 11
SCALE: NONE

NOT USED 12
SCALE: NONE

NOT USED 13
SCALE: NONE

NOT USED 14
SCALE: NONE

NOT USED 15
SCALE: NONE

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AUSTIN, TX

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AUSTIN, TEXAS 78758

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1306 W. OLTORF STREET, SUITE C
AUSTIN, TEXAS 78704

LORO ASIAN SMOKEHOUSE & BAR

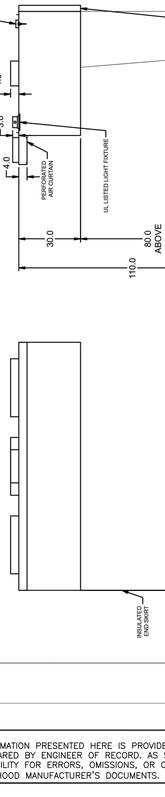
DATE	DESCRIPTION
10.27.2023	ISSUE FOR PERMIT
04.12.2024	ISSUE FOR CONSTRUCTION

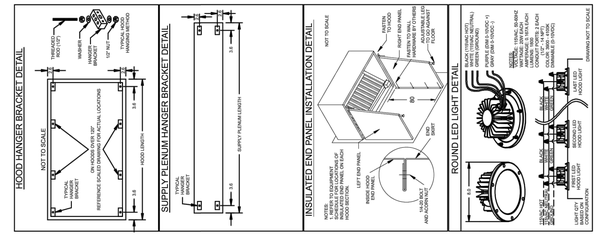
△	DATE	DESCRIPTION
3	04/12/24	OWNER COMMENTS - VE
4	06/10/24	OWNER COMMENTS - VE

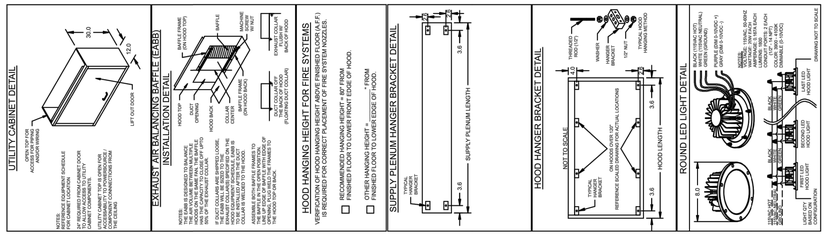
SHEET TITLE:
3
MECHANICAL DETAILS

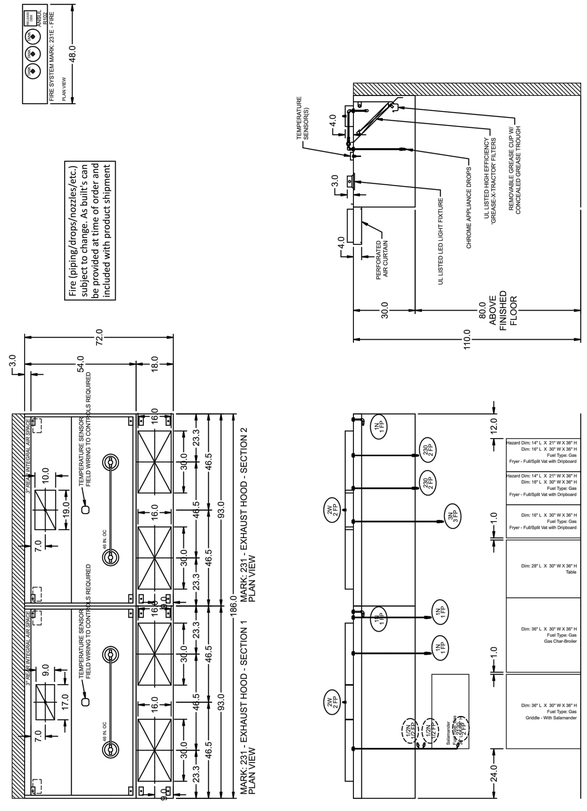
SHEET NUMBER:
M3.1

PROJECT NUMBER:
LAS23001









PROJECT 4/11/2024 LORO AUSTIN TX (THE DOMAIN) REV.6
MARK 231 - EXHAUST HOOD
ACCUREX SOUTHERN CA & HAWAII - 2297
AMEER TILLMAN
AMEER.TILLMAN@ACCUREX.COM
(509)430-5326
ACCUREX
CONSTRUCTION COMPLIES WITH NFPA 96

HOOD INFORMATION

HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN.) LENGTH	WIDTH	HEIGHT	HOOD CONSTR.	COOKING LOAD / DUTY RATING	EXHAUST TOTAL CFM	COLLAR(S) WIDTH	LENGTH	DIA.	CFM	S.P.	SUPPLY MUA CFM	AC CFM	HANGING WEIGHT LBS.	SECTION LOCATION
1	231 - EXHAUST HOOD	XXEW-93-S	93	54	30	430 SS WHERE EXPOSED	HEAVY	1752	9	17		1752	0.589	1501		351	LEFT
2	231 - EXHAUST HOOD	XXEW-93-S	93	54	30	430 SS WHERE EXPOSED	HEAVY	2000	10	19		2000	0.617	1501		343	RIGHT

HOOD INFORMATION

HOOD NO.	MARK	LIGHTING DETAILS FIXTURE TYPE BULB / LAMP INFO	QTY	FOOT CANDLES	GREASE FILTRATION DETAILS TYPE / MODEL MATERIAL	QTY	SIZE (IN.) L	H	UTILITY CABINET(S) LOCATION	FIRE SYSTEM TYPE	SIZE	CONTROLS MODEL	INTERFACE
1	231 - EXHAUST HOOD	ROUND LED	2	61.51	X-TRACTOR (SPARK ARRESTOR INCL.) STAINLESS STEEL	2 3	16 20	20					
2	231 - EXHAUST HOOD	ROUND LED	2	61.51	X-TRACTOR (SPARK ARRESTOR INCL.) STAINLESS STEEL	2 3	16 20	20	WALL	ANSUL R102	9		

SUPPLY PLENUM INFORMATION

HOOD NO.	MARK	POS.	TYPE	SIZE (IN.) L	W	H	INSULATED	DAMPER(S)	LED LIGHT(S) SUPPLIED	QTY	TOTAL CFM	TOTAL S.P.	COLLARS TYPE	MOUNTING	QTY	W	L	DIA.	CFM	VEL.
1	231 - EXHAUST HOOD	FRONT	ASP	93	18	4	NO	YES	NO		1501	0.01	MUA	FACTORY	2	16	30		751	225
2	231 - EXHAUST HOOD	FRONT	ASP	93	18	4	NO	YES	NO		1501	0.01	MUA	FACTORY	2	16	30		751	225

HOOD OPTIONS

UL 710 LISTED W/ OUT EXHAUST FIRE DAMPER - UL #R25625
BACK INTEGRAL AIR SPACE - 3 IN WIDE
CONTINUOUS CAPTURE
FACTORY MOUNTED EXHAUST COLLAR(S)
EXHAUST AIR BALANCING BAFFLE(S) - (EABB)
WALL UTILITY CABINET 24 IN HIGH 48 IN LONG 12 IN WIDE
PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY
STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH

MARK: 231 - EXHAUST HOOD - SECTION 1
PLAN VIEW

MARK: 231 - EXHAUST HOOD - SECTION 2
PLAN VIEW

Fire (piping/drops/nozzles/etc.) subject to change. As built's can be provided at time of order and included with product shipment

MARK: 231 - EXHAUST HOOD - SECTION 1
ELEVATION VIEW

MARK: 231 - EXHAUST HOOD - SECTION 2
ELEVATION VIEW

MARK: 231 - EXHAUST HOOD (LAST HOOD IN ROW)
SECTION VIEW

UTILITY CABINET DETAIL

NOTES:
REFERENCE EQUIPMENT SCHEDULE FOR CABINET LOCATION

24" REQUIRED FROM CABINET DOOR TO ALLOW ACCESS TO UTILITY CABINET COMPONENTS.

UTILITY CABINET TOP IS OPEN FOR ACCESSABILITY TO POWERSOURCE / COMPONENT CONNNECTIONS FROM THE CEILING

EXHAUST AIR BALANCING BAFFLE (EABB) INSTALLATION DETAIL

NOTES:
THE EABB IS DESIGNED TO BALANCE THE AIR VOLUME BETWEEN MULTIPLE HOODS ON THE SAME FAN. THE BAFFLE HAS THE CAPACITY TO CLOSE OFF UPTO 50% OF THE EXHAUST COLLAR.

IF DUCT COLLARS ARE SHIPPED LOOSE, THE EABB WILL BE SIZED TO THE EXHAUST COLLAR(S) SPECIFIED ON THE HOOD EQUIPMENT SCHEDULE, EABB IS TO BE INSTALLED AFTER THE DUCT COLLAR IS WELDED TO THE HOOD.

ASSEMBLE BOTH BAFFLE FRAMES TO THE BAFFLE IN THE OPEN POSITION. LINE UP EDGE OF BAFFLE WITH EDGE OF OPENING, PLUG WELD THE FRAMES TO THE HOOD TOP OR BACK.

HOOD HANGING HEIGHT FOR FIRE SYSTEMS

VERIFICATION OF HOOD HANGING HEIGHT ABOVE FINISHED FLOOR (A.F.F.) IS REQUIRED FOR CORRECT PLACEMENT OF FIRE SYSTEM NOZZLES.

☐ RECOMMENDED HANGING HEIGHT = 80" FROM FINISHED FLOOR TO LOWER FRONT EDGE OF HOOD.

☐ OTHER HANGING HEIGHT = ________" FROM FINISHED FLOOR TO LOWER EDGE OF HOOD.

SUPPLY PLENUM HANGER BRACKET DETAIL

HOOD HANGER BRACKET DETAIL

ROUND LED LIGHT DETAIL

NOTES:
VOLTAGE: 115VAC, 50-60HZ
WATTAGE: 20W EACH
AMPERAGE: 0.167A EACH
LUMENS: 1800
CONDUIT PORTS: 2 EACH (1/2" - 14 NPT)
COLOR: 3900 - 4100K
DIMMABLE (0-10VDC)

PROJECT 4/11/2024 LORO AUSTIN TX (THE DOMAIN) REV.6
MARK 214 - EXHAUST HOOD
ACCUREX SOUTHERN CA & HAWAII - 2297
AMEER TILLMAN
AMEER.TILLMAN@ACCUREX.COM
(509)430-5326
ACCUREX
CONSTRUCTION COMPLIES WITH NFPA 96

HOOD INFORMATION

HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN.) LENGTH	WIDTH	HEIGHT	HOOD CONSTR.	COOKING LOAD / DUTY RATING	EXHAUST TOTAL CFM	COLLAR(S) WIDTH	LENGTH	DIA.	CFM	S.P.	SUPPLY MUA CFM	AC CFM	HANGING WEIGHT LBS.	SECTION LOCATION
1	214 - EXHAUST HOOD	XO-120-S	120.00	60	30	430 SS 100%		2000.0	12	16		2000	0.27	1600		253	SINGLE

HOOD INFORMATION

HOOD NO.	MARK	LIGHTING DETAILS FIXTURE TYPE BULB / LAMP INFO	QTY	FOOT CANDLES	BAFFLE FILTRATION DETAILS TYPE / MODEL MATERIAL	QTY	SIZE (IN.) L	H	UTILITY CABINET(S) LOCATION	FIRE SYSTEM TYPE	SIZE	CONTROLS MODEL	INTERFACE
1	214 - EXHAUST HOOD	ROUND LED	2	57.80									

SUPPLY PLENUM INFORMATION

HOOD NO.	MARK	POS.	TYPE	SIZE (IN.) L	W	H	INSULATED	DAMPER(S)	LED LIGHT(S) SUPPLIED	QTY	TOTAL CFM	TOTAL S.P.	COLLARS TYPE	MOUNTING	QTY	W	L	DIA.	CFM	VEL.
1	214 - EXHAUST HOOD	FRONT	ASP	120	14	4	NO	YES	NO		1600	0.01	MUA	FACTORY	3	12	28		533	228

HOOD OPTIONS

FACTORY MOUNTED EXHAUST COLLAR(S)
LEFT INSULATED END PANEL WITH ADJUSTABLE LEG 80.00 IN HIGH 27.00 IN TOP WIDTH 21.0 IN BOTTOM WIDTH

MARK: 214 - EXHAUST HOOD - SECTION 1
PLAN VIEW

MARK: 214 - EXHAUST HOOD - SECTION 1
ELEVATION VIEW

MARK: 214 - EXHAUST HOOD
SECTION VIEW

HOOD HANGER BRACKET DETAIL

SUPPLY PLENUM HANGER BRACKET DETAIL

INSULATED END PANEL INSTALLATION DETAIL

NOTES:
1. REFER TO EQUIPMENT SCHEDULE FOR LOCATIONS OF INSULATED END PANEL ON EACH HOOD SECTION.

ROUND LED LIGHT DETAIL

NOTES:
VOLTAGE: 115VAC, 50-60HZ
WATTAGE: 20W EACH
AMPERAGE: 0.167A EACH
LUMENS: 1800
CONDUIT PORTS: 2 EACH (1/2" - 14 NPT)
COLOR: 3900 - 4100K
DIMMABLE (0-10VDC)

NOTE:
THE INFORMATION PRESENTED HERE IS PROVIDED FOR REFERENCE ONLY AND WAS NOT PREPARED BY ENGINEER OF RECORD. AS SUCH, THE EOR ASSUMES NO RESPONSIBILITY FOR ERRORS, OMISSIONS, OR CODE COMPLIANCE ISSUES IN THE EXHAUST HOOD MANUFACTURER'S DOCUMENTS.

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AUSTIN, TEXAS 78704
www.haihospitality.com

TBPE FIRM REGISTRATION# F-11678

JOHN G. SISK
101280

05/24/2024
ISSUE FOR CONSTRUCTION

LORO'S ASIAN SMOKEHOUSE & BAR
AUSTIN, TX
11601 DOMAIN DR. #200
AUSTIN, TEXAS 78758

CLIENT: HAI HOSPITALITY
1306 W. OLTORF STREET, SUITE C
AUSTIN, TEXAS 78704

LORO ASIAN SMOKEHOUSE & BAR

DATE	DESCRIPTION
10.27.2023	ISSUE FOR PERMIT
04.12.2024	ISSUE FOR CONSTRUCTION

△	DATE	DESCRIPTION
1	02/05/24	OWNER COMMENTS - VE
3	04/12/24	OWNER COMMENTS - VE

SHEET TITLE:
HOOD DRAWINGS DETAILS

SHEET NUMBER:
M4.0

PROJECT NUMBER:
LAS23001

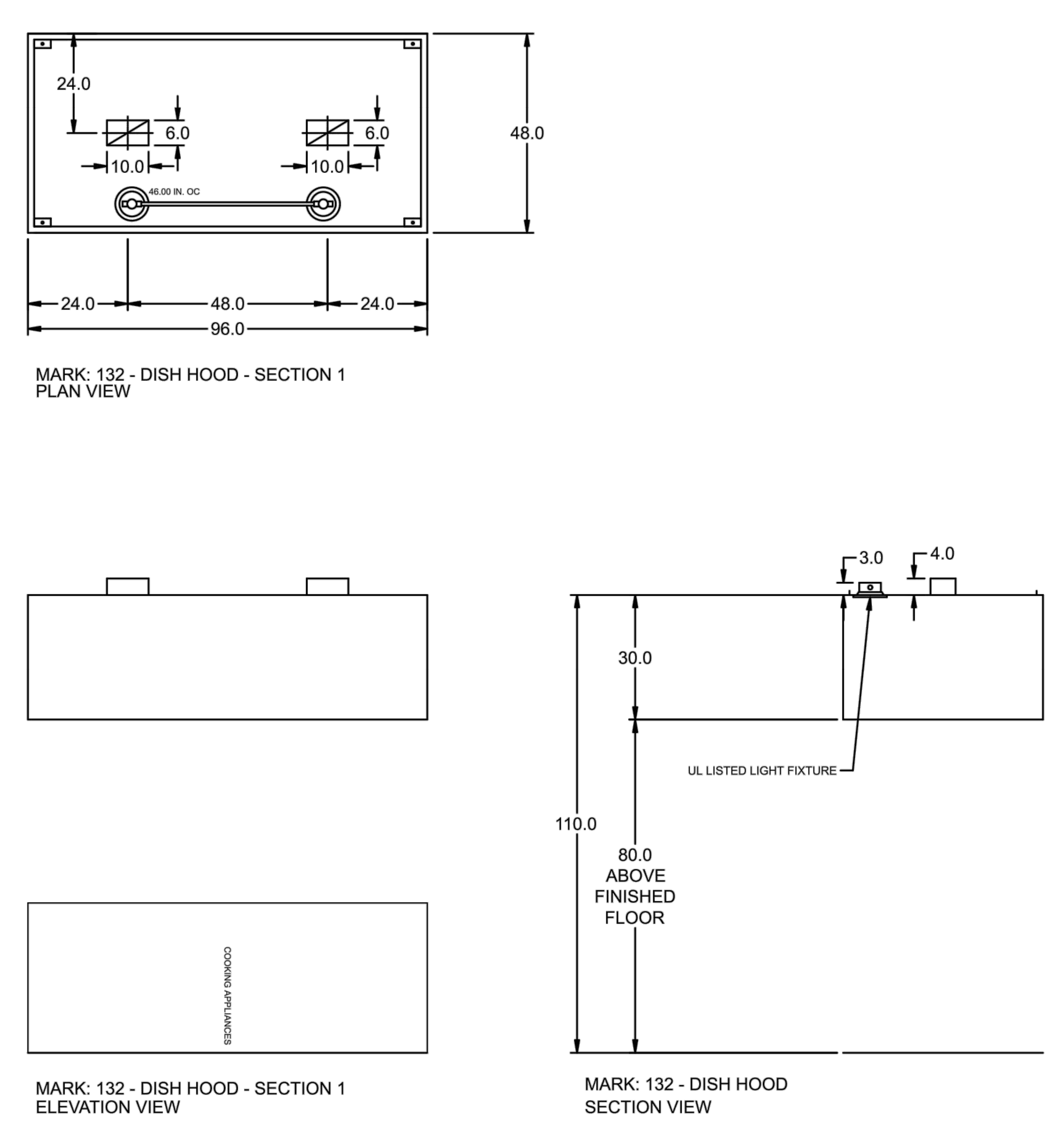
HOOD INFORMATION

HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN.) LENGTH	WIDTH	HEIGHT	HOOD CONSTR.	COOKING LOAD / DUTY RATING	EXHAUST TOTAL CFM	COLLAR(S) WIDTH	LENGTH	DIA.	CFM	S.P.	SUPPLY MUA CFM	AC CFM	HANGING WEIGHT LBS.	SECTION LOCATION
1	132 - DISH HOOD	XO-96-S	96.00	48	30	300 SS 100%		1400.0	6	10		700	0.339			186	SINGLE
									6	10		700	0.339				

HOOD INFORMATION

HOOD NO.	MARK	LIGHTING DETAILS FIXTURE TYPE BULB / LAMP INFO	QTY	FOOT CANDLES	BAFFLE FILTRATION DETAILS TYPE / MODEL MATERIAL	QTY	SIZE (IN.) L	H	UTILITY CABINET(S) LOCATION	FIRE SYSTEM TYPE	SIZE	CONTROLS MODEL	INTERFACE
1	132 - DISH HOOD	ROUND LED	2	61.07									

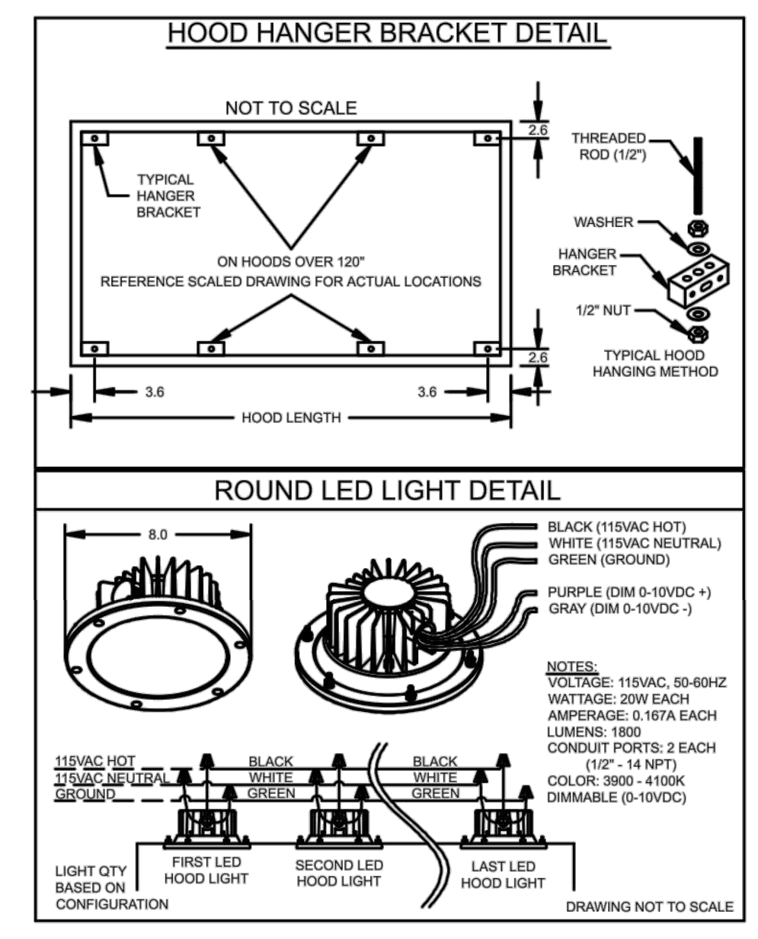
HOOD OPTIONS
- FACTORY MOUNTED EXHAUST COLLAR(S)



MARK: 132 - DISH HOOD - SECTION 1 PLAN VIEW

MARK: 132 - DISH HOOD - SECTION 1 ELEVATION VIEW

MARK: 132 - DISH HOOD SECTION VIEW



PROJECT: LORO AUSTIN TX (THE DOMAIN) REV.6
4/11/2024
MARK: 132 - DISH HOOD

ACCUREX SOUTHERN CA & HAWAII - 2297
AMEER TILLMAN
AMEER.TILLMAN@ACCUREX.COM
(509)430-5326

ACCUREX

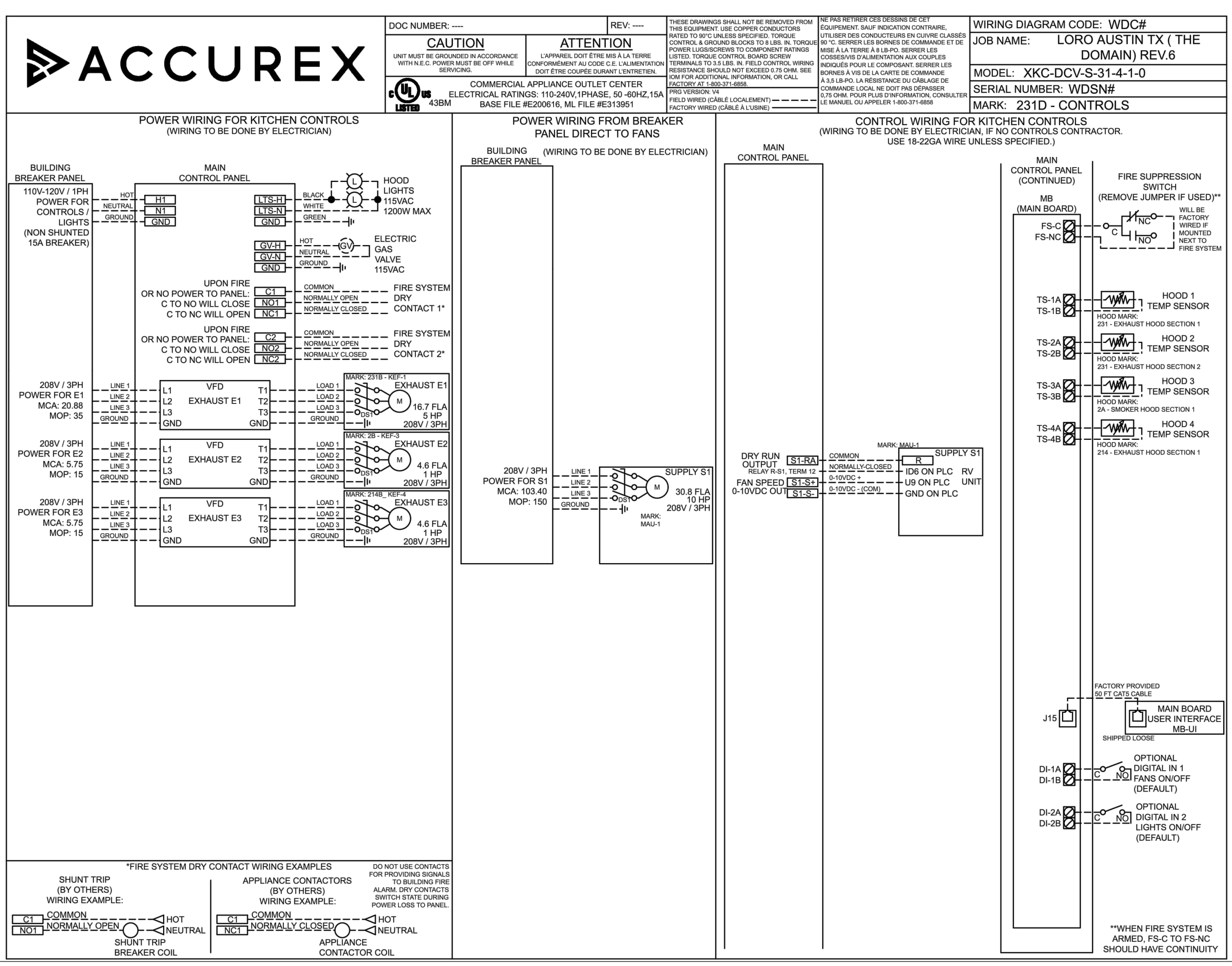
CONTROL INFORMATION

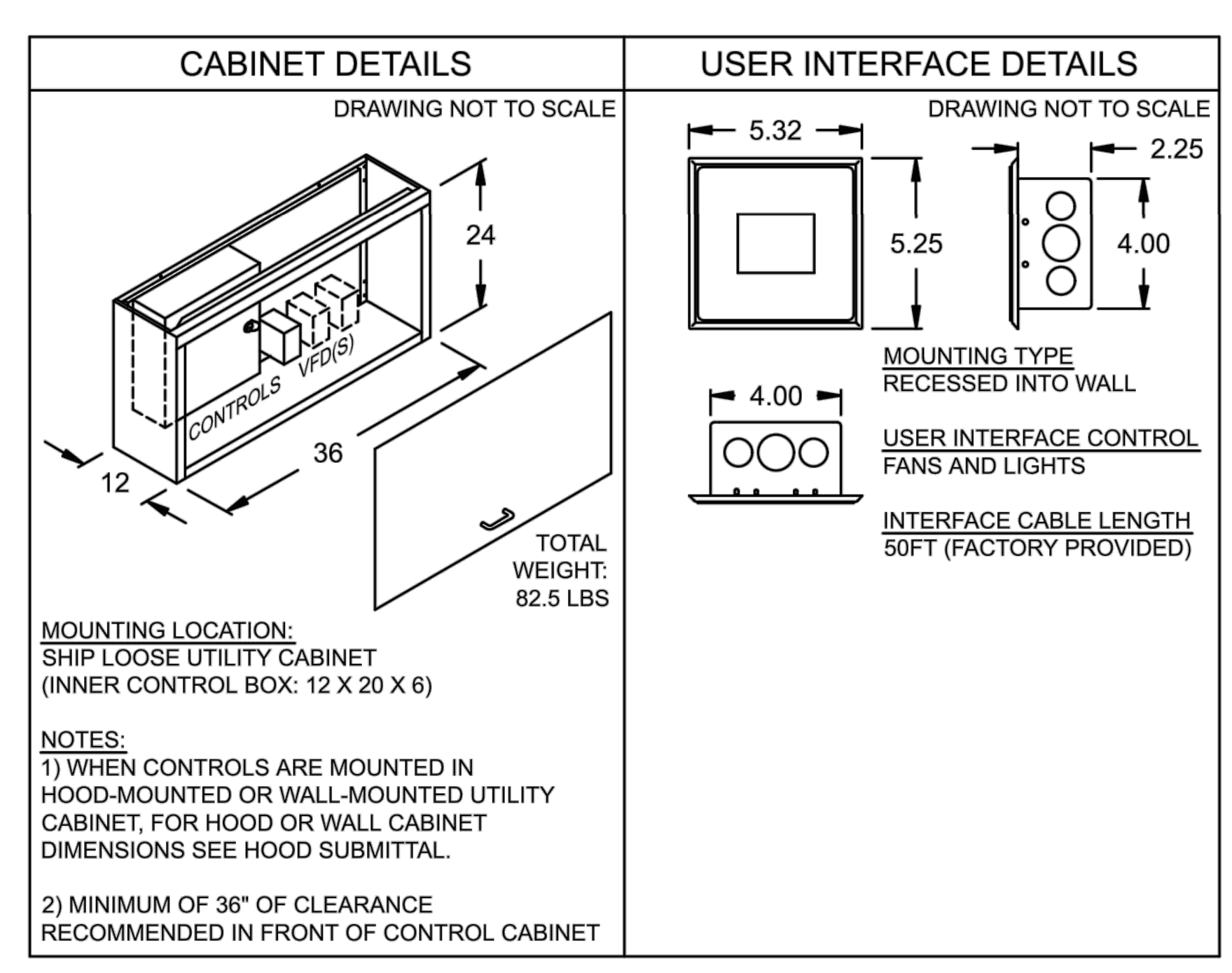
MARK	ELECTRICAL CONTROL PACKAGE MODEL	LOCATION	USER INTERFACE TYPE	LOCATION
231D - CONTROLS	XKC-DCV-S-31-4-1-0	SHIP LOOSE UTILITY CABINET	FULL COLOR TOUCHSCREEN	SHIP LOOSE

FANS CONTROLLED

FAN #	TYPE	FAN	FAN MARK	ZONE	CFM	MOTOR HP	MOTOR VOLT	CYCLE	MOTOR PHASE	MOTOR STARTER IN PANEL	VFD IN PANEL
1	EXHAUST	E1	231B - KEF-1	1	3752	5	208	72	3	NO	YES
2	EXHAUST	E2	2B - KEF-3	1	1900	1	208	60	3	NO	YES
3	EXHAUST	E3	214B_ KEF-4	1	2000	1	208	56	3	NO	YES
4	SUPPLY	S1	MAU-1	1	6120	10	208	60	3	NO	NO

CONTROL FEATURES
- HOOD LIGHT CONTROL
- TEMP SENSORS (FACTORY INSTALLED) - QTY. 4
- DRY FIRE CONTACTS - QTY. 2
- LIGHTS OFF DURING FIRE
- EXHAUST MAX DURING FIRE
- SUPPLY OFF DURING FIRE
- GAS RESET





MOUNTING LOCATION:
SHIP LOOSE UTILITY CABINET
(INNER CONTROL BOX: 12 X 20 X 6)

NOTES:
1) WHEN CONTROLS ARE MOUNTED IN HOOD-MOUNTED OR WALL-MOUNTED UTILITY CABINET, FOR HOOD OR WALL CABINET DIMENSIONS SEE HOOD SUBMITTAL.

2) MINIMUM OF 36" OF CLEARANCE RECOMMENDED IN FRONT OF CONTROL CABINET

ZONE CONFIGURATION

ZONE #	ZONE	ROOM TEMP
1	Z1	PRESET

HOOD CONFIGURATION

HOOD #	HOOD	HOOD MARK	ZONE	EXHAUST	SUPPLY	MB-TEMP SENSORS	HCB
1	H1	231 - EXHAUST HOOD SECTION 1	Z1	E1	S1	TS1	NO
2	H2	231 - EXHAUST HOOD SECTION 2	Z1	E1	S1	TS2	NO
3	H3	2A - SMOKER HOOD SECTION 1	Z1	E2	S1	TS3	NO
4	H4	214 - EXHAUST HOOD SECTION 1	Z1	E3	S1	TS4	NO

WIRING DIAGRAM CODE: WDC#
JOB NAME: LORO AUSTIN TX (THE DOMAIN) REV.6
MODEL: XKC-DCV-S-31-4-1-0
SERIAL NUMBER: WDSN#
MARK: 231D - CONTROLS
DOC NUMBER: ---- REV: ----

DEFAULT SETTINGS / PARAMÈTRES PAR DÉFAUT

FACTORY SETTINGS
TYPE: VAV
CONFIGURATION: STANDARD
ZONES: 1
HOODS: 4
SUMPS: 0
EXHAUST FANS: 3
SUPPLY FANS: 1
MB ROOM SENSOR: NO
MB TEMP SENSORS: 4
HIGH TEMP FAULT: NO
FREEZE PROTECTION: YES
GAS RESET: YES
FAN PROVING: NO
BMS: NONE

ZONE SETTINGS
SEE ZONE CONFIGURATION IN TABLE ON LEFT

HOOD SETTINGS
SEE HOOD CONFIGURATION IN TABLE ON LEFT

EXHAUST FAN SETTINGS
SEE FAN CONFIGURATION IN TABLE ON LEFT

SUPPLY FAN SETTINGS
SEE FAN CONFIGURATION IN TABLE ON LEFT

SENSOR SETTINGS
SEE HOOD CONFIGURATION IN TABLE ON LEFT

USER INTERFACE SETTINGS (MB)
FAN & LIGHT BUTTONS: SHOW BOTH (SEPERATE)

USER INTERFACE SETTINGS (HCB)
NA

GENERAL SETTINGS
TIME ZONE: CENTRAL DAYLIGHT (DEFAULT)

FIRE/FAULT SETTINGS
EXHAUST DURING FIRE: MAX
SUPPLY DURING FIRE: OFF
LIGHTS DURING FIRE: OFF

BMS SETTINGS
NA

PRG VERSION: V4

FAN CONFIGURATION

FAN #	TYPE	FAN	FAN MARK	ZONE	MIN CFM	MAX CFM	MODBUS VFD	VFD ADDRESS	MIN FREQ.	MAX FREQ.	MIN VDC	MAX VDC
1	EXHAUST	E1	231B - KEF-1	Z1	1876	3752	YES	1	36	72	-	-
2	EXHAUST	E2	2B - KEF-3	Z1	950	1900	YES	2	30	60	-	-
3	EXHAUST	E3	214B_ KEF-4	Z1	1000	2000	YES	3	28	56	-	-
4	SUPPLY	S1	MAU-1	Z1	3060	6120	NO	-	-	-	5.0	10.0

PROJECT: LORO AUSTIN TX (THE DOMAIN) REV.6
4/11/2024
MARK: 231D - CONTROLS

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TBPE FIRM REGISTRATION# F-11678
JOHN G. SISK
101280

05/24/2024
ISSUE FOR CONSTRUCTION

DATE	DESCRIPTION
10.27.2023	ISSUE FOR PERMIT
04.12.2024	ISSUE FOR CONSTRUCTION

△	DATE	DESCRIPTION
2	02/09/24	OWNER COMMENTS - VE
3	04/12/24	OWNER COMMENTS - VE

SHEET TITLE: HOOD DRAWINGS DETAILS

SHEET NUMBER: M4.1

PROJECT NUMBER: LAS23001

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PROJECT: LORO AUSTIN TX (THE DOMAIN) REV.6
4/11/2024
MARK: 231E - FIRE

FIRE SYSTEM INFORMATION

MARK	MODEL	LOCATION	FLOW POINTS		SUPPLY LINE	DETECTION	MARK(S) PROTECTED BY FIRE SYSTEM
			HOODS	PCU			
231E - FIRE	ANSUL R-102 WET CHEMICAL	WALL CABINET – ON 231 - EXHAUST HOOD	27 UTILIZED 33 AVAILABLE		CONTINUOUS	FUSIBLE LINK	231 - EXHAUST HOOD SECTION 1 231 - EXHAUST HOOD SECTION 2 2A - SMOKER HOOD SECTION 1

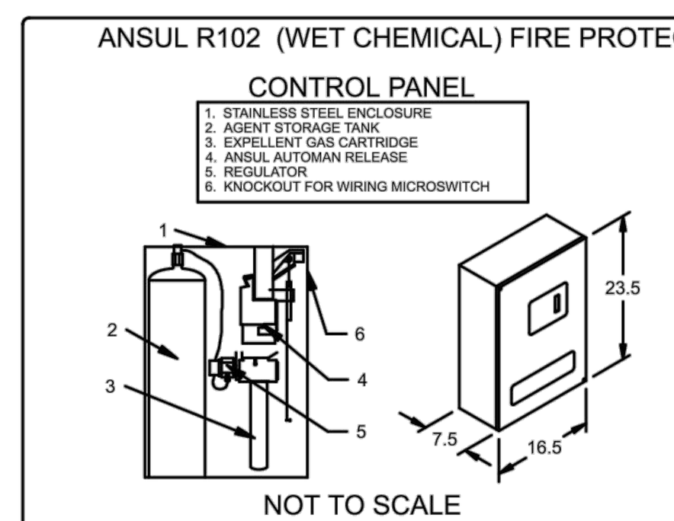
FIRE SYSTEM OPTIONS AND ACCESSORIES

- PRE-PIPE WITH FACTORY PARTS (INCLUDES PRE-PIPED HOOD(S) WITH DETECTION AND DISTRIBUTOR SUPPLIED PARTS)
- CHROME SLEEVES FOR FACTORY PROVIDED APPLIANCES DROPS - INCLUDED
- METAL BLOW-OFF CAPS - INCLUDED
- GAS VALVE - INCLUDED - MECHANICAL SHUTOFF VALVE, 2", (ANSUL) - PART# ANSULMECHSHUTOFFVALVE200
- HOOD SUPPRESSION TANK - INCLUDED - 9 GAL. - [(3) 3.0 TANK(S)]
- REMOTE PULL STATION - STANDARD - FIELD INSTALLATION AT SINGLE POINT OF EGRESS

ANSUL R102 (WET CHEMICAL) FIRE PROTECTION SYSTEM - MODEL FSSC

CONTROL PANEL

1. STAINLESS STEEL ENCLOSURE
2. AGENT STORAGE TANK
3. EXPELLENT GAS CARTRIDGE
4. ANSUL AUTOMAN RELEASE
5. REGULATOR
6. KNOCKOUT FOR WIRING MICROSWITCH



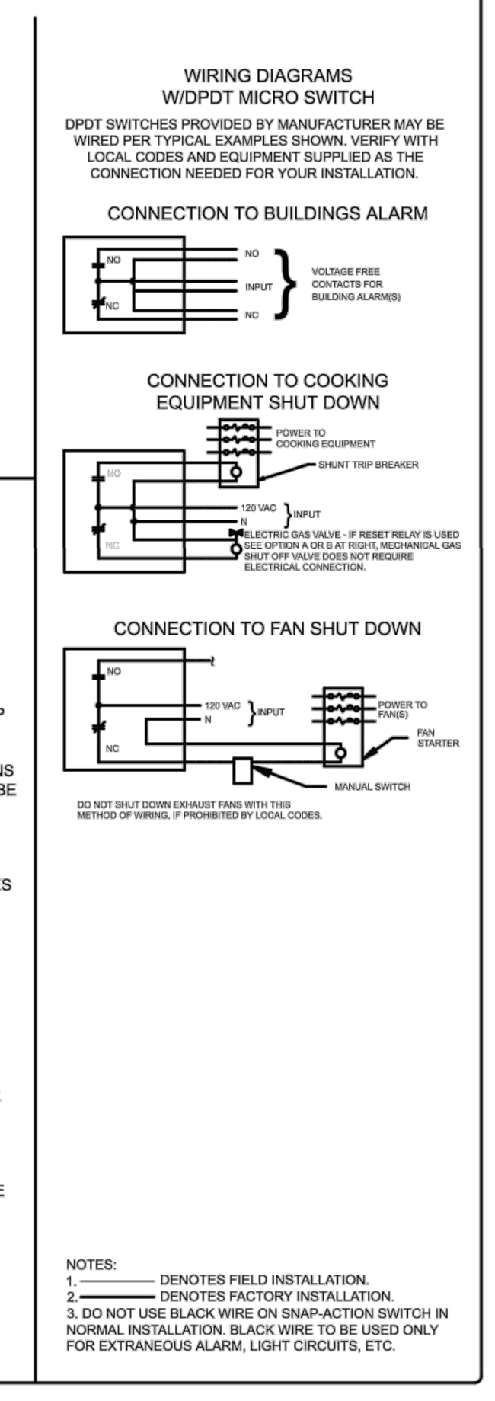
NOT TO SCALE

NOTES:

WET CHEMICAL FIRE PROTECTION SYSTEM TO BE ANSUL R-102, DESIGNED IN COMPLIANCE WITH UL 300 REQUIREMENTS.
-VERIFICATION OF ALL COOKING EQUIPMENT MAKE, MODEL AND LOCATION REQUIRED FOR ALL FIRE PROTECTION SYSTEMS.
-ALL FIRE SYSTEM PIPING IS STANDARDLY TO THE RIGHT END OF THE HOOD UNLESS A WALL IS LOCATED ON THE RIGHT END.
-ANSUL AUTOMAN RELEASE TO BE LOCATED WITHIN 60" OF HOOD.

THE BASIC FIRE SYSTEM WILL INCLUDE THE FOLLOWING:
-GAS SHUT-OFF VALVE, IF REQUIRED, TO BE SUPPLIED BY MANUFACTURER (UP TO 2" DIAMETER AS STANDARD), AND INSTALLED BY A LICENSED PLUMBER.
-MICRO SWITCH TO BE SUPPLIED BY MANUFACTURER FOR CONNECTION TO, BUT NOT LIMITED TO, BUILDING ALARM SYSTEM(S), EXHAUST AND SUPPLY FANS AND ELECTRICAL POWER SHUT DOWN. FIELD WIRING AND CONNECTIONS TO BE PERFORMED BY A LICENSED ELECTRICIAN.

THE BASIC FIRE SYSTEM DOES NOT INCLUDE THE FOLLOWING:
-FULL DUMP TEST OTHER THAN WHT IS SPECIFIED PER THE INSTALLATION MANUAL, OR TO SATISFY A STATE OR LOCAL CODE. PERMIT AND TESTING FEES ARE NOT INCLUDED UNLESS NOTED UNDER THE EQUIPMENT SCHEDULE FOR THE FIRE SYSTEM.
-MORE THEN TWO TRIPS TO THE JOBSITE OR SPECIAL TRANSPORTATION, OR OVERNIGHT LODGING REQUIREMENTS IN REMOTE AREAS. NORMAL TRAVEL DISTANCE IS FIRST 50 MI. (80.5 KM) FROM OFFICE.
- SPECIAL CLASSES OR ADDITIONAL LABOR FOR ACCESS TO SECURITY SENSITIVE AREAS.
-INSTALLATION OF GAS SHUT-OFF VALVE.
-SPECIAL DRAWINGS REQUIRED TO SATISFY STATE OR LOCAL CODE. PLAN EXAMINATION FEES, PE OR FS APPROVAL STAMP.
-UNION LABOR, GOVERNMENT LABOR, OR PREVAILING WAGES REQUIRED FOR FINAL FIELD HOOK-UP.
-ANY AND ALL ELECTRICAL COMPONENTS/CONNECTIONS REQUIRED TO SHUT DOWN FANS, SHUT OFF DEVICE FOR ELECTRIC COOKING EQUIPMENT (SHUNT TRIP BREAKER), OR ACTIVATE AN ALARM SYSTEM, ETC.
-ANY DISMANTLING OR REASSEMBLY REQUIRED TO GAIN ACCESS TO THE FIRE SUPPRESSION PIPING LOCATED ON THE TOP OF THE HOOD.
-ROUGH-IN HIDDEN CONDUIT FOR REMOTE PULL STATION OR GAS VALVE (FLUSH MOUNTED PULL STATION).
-INSTALLATION OF MORE THAN (1) REMOTE PULL STATIONS OR DISTANCES GREATER THAN 20 FT (6.1M.)
-PARTS OR LABOR REQUIRED TO CORRECT PIPING DUE TO COOKING EQUIPMENT CHANGES OR DEVIATION FROM PLANS. OR ANY CHARGES FOR MISSING OR ADDITIONAL PARTS OTHER THEN THOSE INDICATED ON THE FIRE SUPPRESSION DETAIL.



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PROJECT: LORO AUSTIN TX (THE DOMAIN) REV.6
4/11/2024
MARK: 2A - SMOKER HOOD

HOOD INFORMATION

HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN.)			HOOD CONSTR.	COOKING LOAD / DUTY RATING	EXHAUST						SUPPLY		HANGING WEIGHT LBS.	SECTION LOCATION
								TOTAL CFM	COLLAR(S)								
			LENGTH	WIDTH	HEIGHT				WIDTH	LENGTH	DIA.	CFM	S.P.	MUA CFM	AC CFM		
1	2A - SMOKER HOOD	XXEW-59-S	59	72	30	430 SS WHERE EXPOSED	EXTRA HEAVY	1900	10	18		1900	1.106	1520		277	SINGLE

HOOD INFORMATION

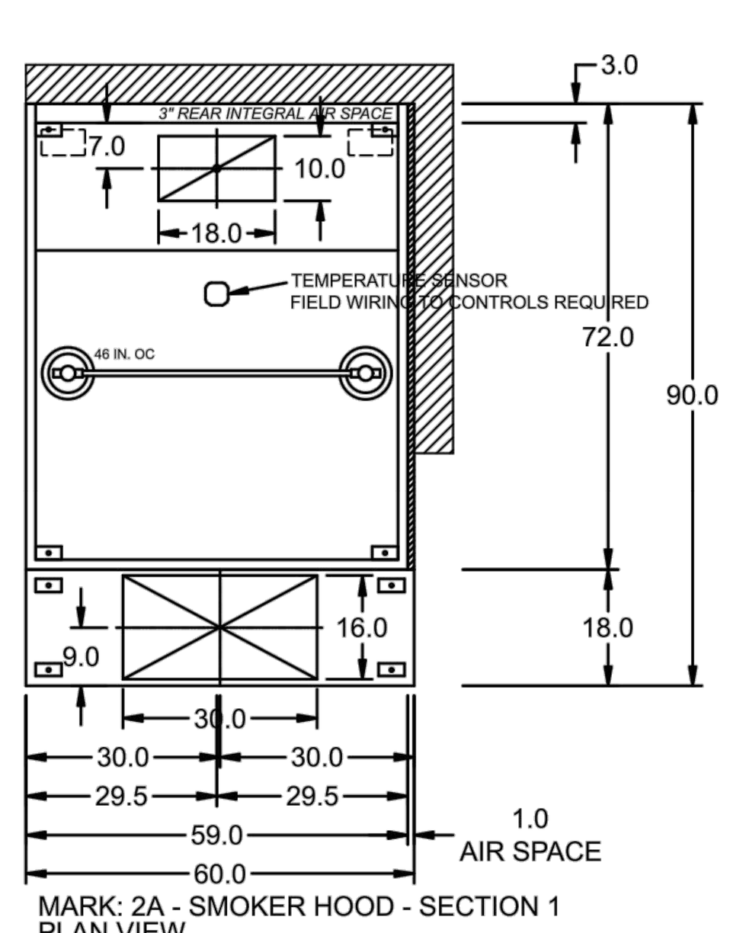
HOOD NO.	MARK	LIGHTING DETAILS			GREASE FILTRATION DETAILS				UTILITY CABINET(S)				
		FIXTURE TYPE BULB / LAMP INFO	QTY	FOOT CANDLES	TYPE / MODEL MATERIAL	QTY	SIZE (IN.)		LOCATION	FIRE SYSTEM		CONTROLS	
							L	H		TYPE	SIZE	MODEL	INTERFACE
1	2A - SMOKER HOOD	ROUND LED	2	67.09	X-TRACTOR (SPARK ARRESTOR INCL.) STAINLESS STEEL	1	16	20					
						2	20						

SUPPLY PLENUM INFORMATION

HOOD NO.	MARK	POS.	TYPE	SIZE (IN.)			INSULATED	DAMPER(S)	LED LIGHT(S)		TOTAL CFM	TOTAL S.P.	COLLARS							
				L	W	H			SUPPLIED	QTY			TYPE	MOUNTING	QTY	W	L	DIA.	CFM	VEL.
1	2A - SMOKER HOOD	FRONT	ASP	60	18	4	NO	YES	NO		1520	0.07	MUA	FACTORY	1	16	30		1520	456

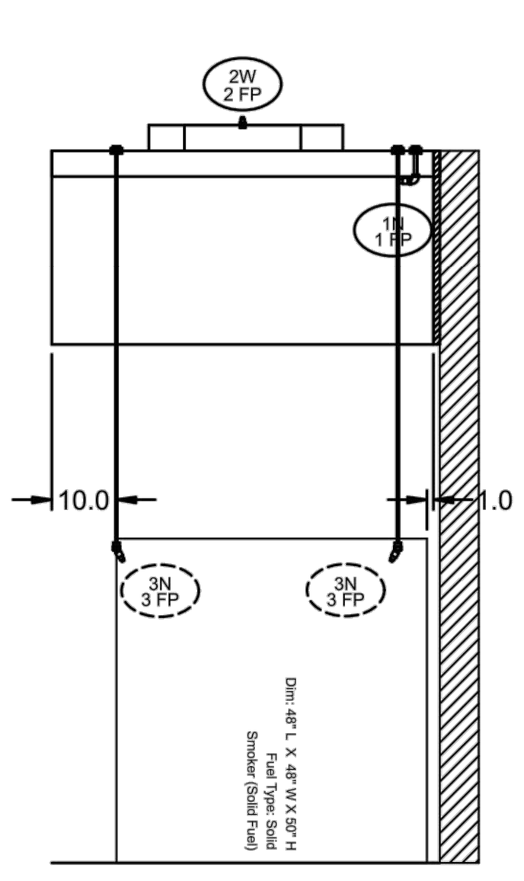
HOOD OPTIONS

- UL 710 LISTED W/ OUT EXHAUST FIRE DAMPER - UL #R25625
- BACK INTEGRAL AIR SPACE - 3 IN WIDE
- RIGHT NON-INTEGRAL AIR SPACE - 1 IN THICK - ZERO CLEARANCE
- FACTORY MOUNTED EXHAUST COLLAR(S)
- HOOD CONTAINS SOLID FUEL COOKING APPLIANCES
- PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY
- STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH

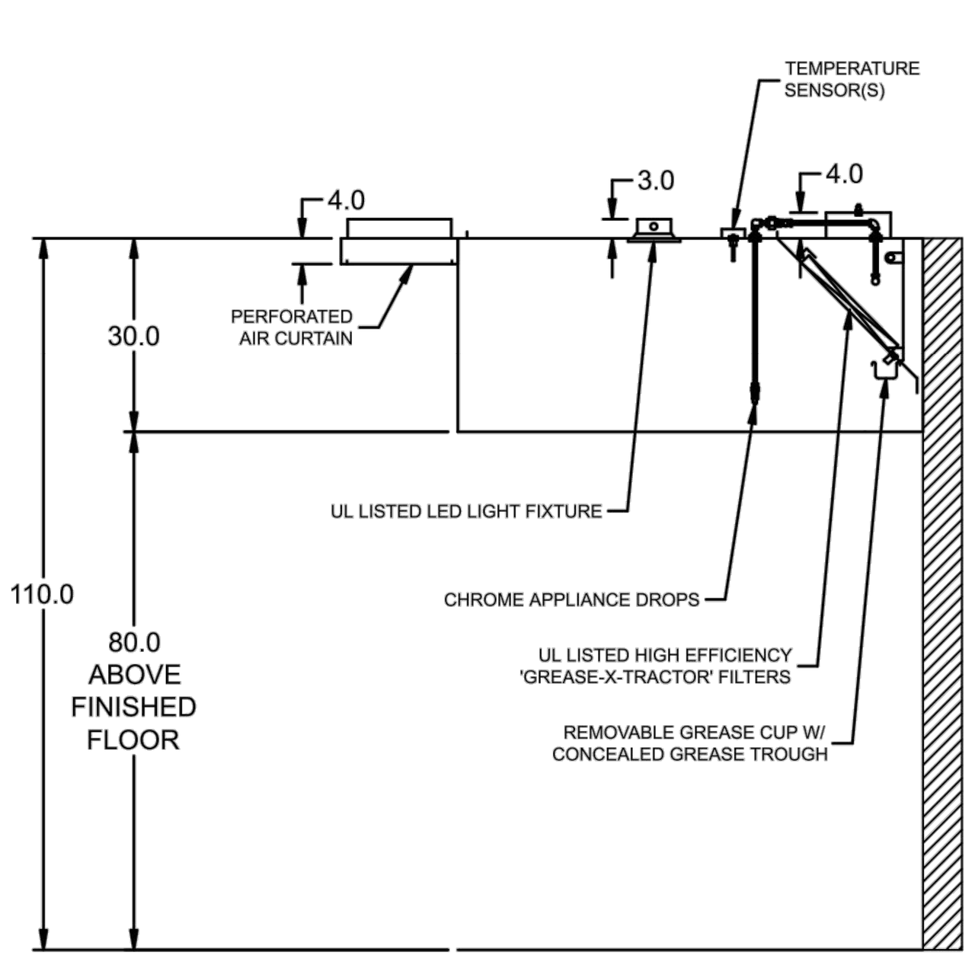


MARK: 2A - SMOKER HOOD - SECTION 1
PLAN VIEW

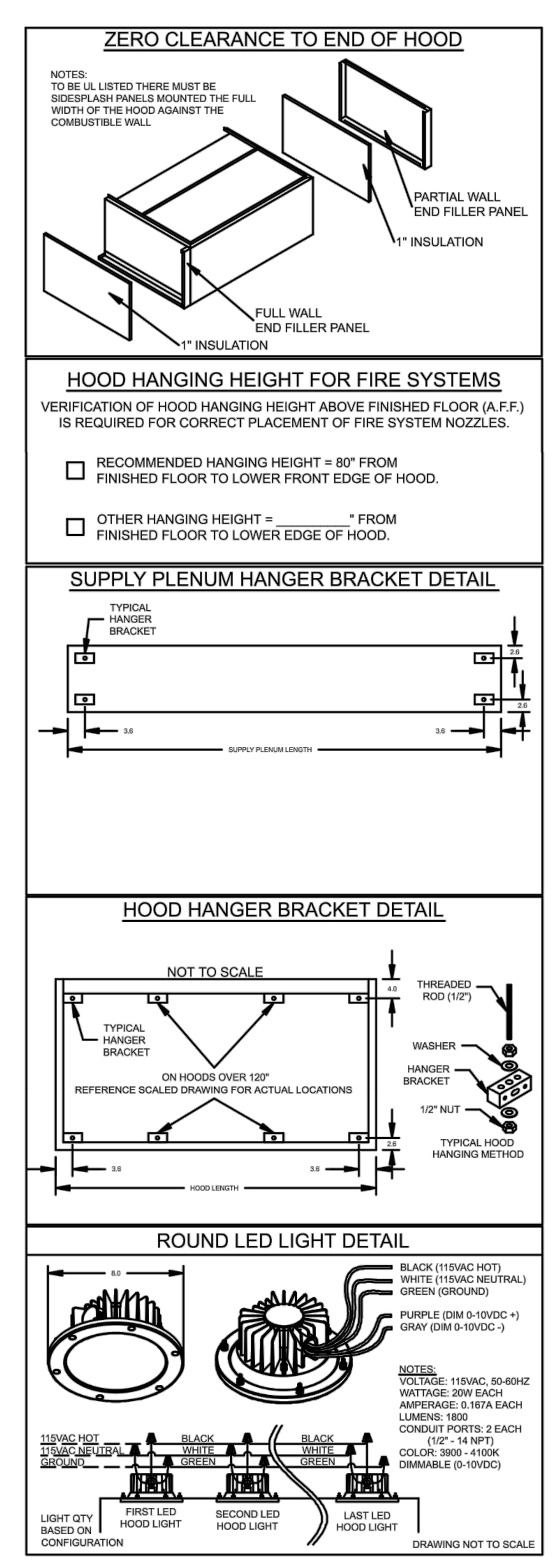
Fire (piping/drops/nozzles/etc.) subject to change. As built's can be provided at time of order and included with product shipment



MARK: 2A - SMOKER HOOD - SECTION 1
ELEVATION VIEW



MARK: 2A - SMOKER HOOD
SECTION VIEW



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05/24/2024
ISSUE FOR CONSTRUCTION

LORO'S ASIAN SMOKEHOUSE & BAR AUSTIN, TX

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LORO ASIAN SMOKEHOUSE & BAR

DATE	DESCRIPTION
10.27.2023	ISSUE FOR PERMIT
04.12.2024	ISSUE FOR CONSTRUCTION

△	DATE	DESCRIPTION
1	02/05/24	OWNER COMMENTS - VE
3	04/12/24	OWNER COMMENTS - VE

SHEET TITLE:
HOOD DRAWINGS DETAILS

SHEET NUMBER:
M4.2

PROJECT NUMBER:
LAS23001

PROJECT LORO AUSTIN TX (THE DOMAIN)
4/11/2024 REV.6
MARK 2B - KEF-3

ACCUREX SOUTHERN CA & HAWAII - 2297
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ACCUREX

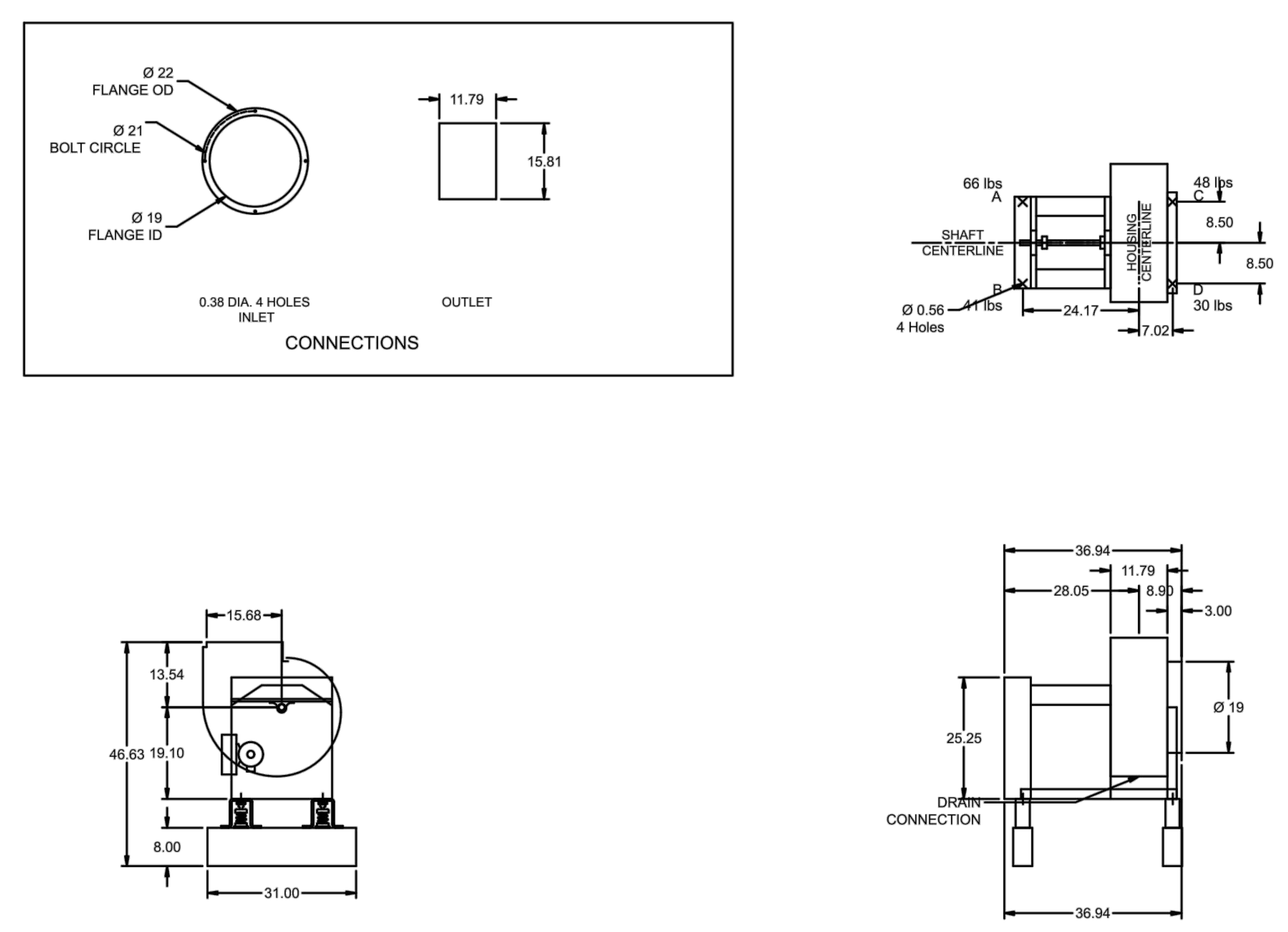
Universal Single Width Fan

MARK INFORMATION			FAN INFORMATION					MOTOR INFORMATION					
QTY	MARK	MODEL	VOLUME (CFM)	TOTAL EXTERNAL SP (IN WG)	FAN RPM	OPERATING POWER (HP)	WEIGHT (LB.)	SIZE (HP)	V/C/P	ENCLOSURE	MOTOR RPM	WINDINGS	NEC FLA*
1	2B - KEF-3	XUEF-15	1,900	1.5	1,498	0.72	188	1	208/60/3	TF	1725	1	4.6

NEC FLA - Based on table 430.250 or 430.248 of National Electrical Code 2020. Actual motor FLA may vary for sizing thermal overload, consult factory

2B - KEF-3 : SELECTED OPTIONS AND ACCESSORIES

Finish - Coated
Coating - Permatector, Concrete Gray-RAL 7023, Mill Finish on Aluminum Components
Direct Mount Isolators, Isolator-Spring, Restrained, 1 Inch, Indoor / Outdoor Use, Base Coating - N/A
Rotation - CW
Bearings - L10 Standard Life, 1000k hours at OperatingPoint
Discharge Position - UB
UL/cUL-762 Outdoor - Power Vent. for Restaurant Exhaust Appliances
Polished Steel Shaft
Access Door - Bolted
Drain Connection - 1 inch threaded male
Extended Lube Lines - Nylon
Inlet Flange, Punched
Outlet Connection, Slip Fit
Weatherhood - Steel Construction
Shaft Seal - Standard
Grease Trap, Shipped Loose
Fasteners - Standard



PROJECT LORO AUSTIN TX (THE DOMAIN)
4/11/2024 REV.6
MARK 231B - KEF-1

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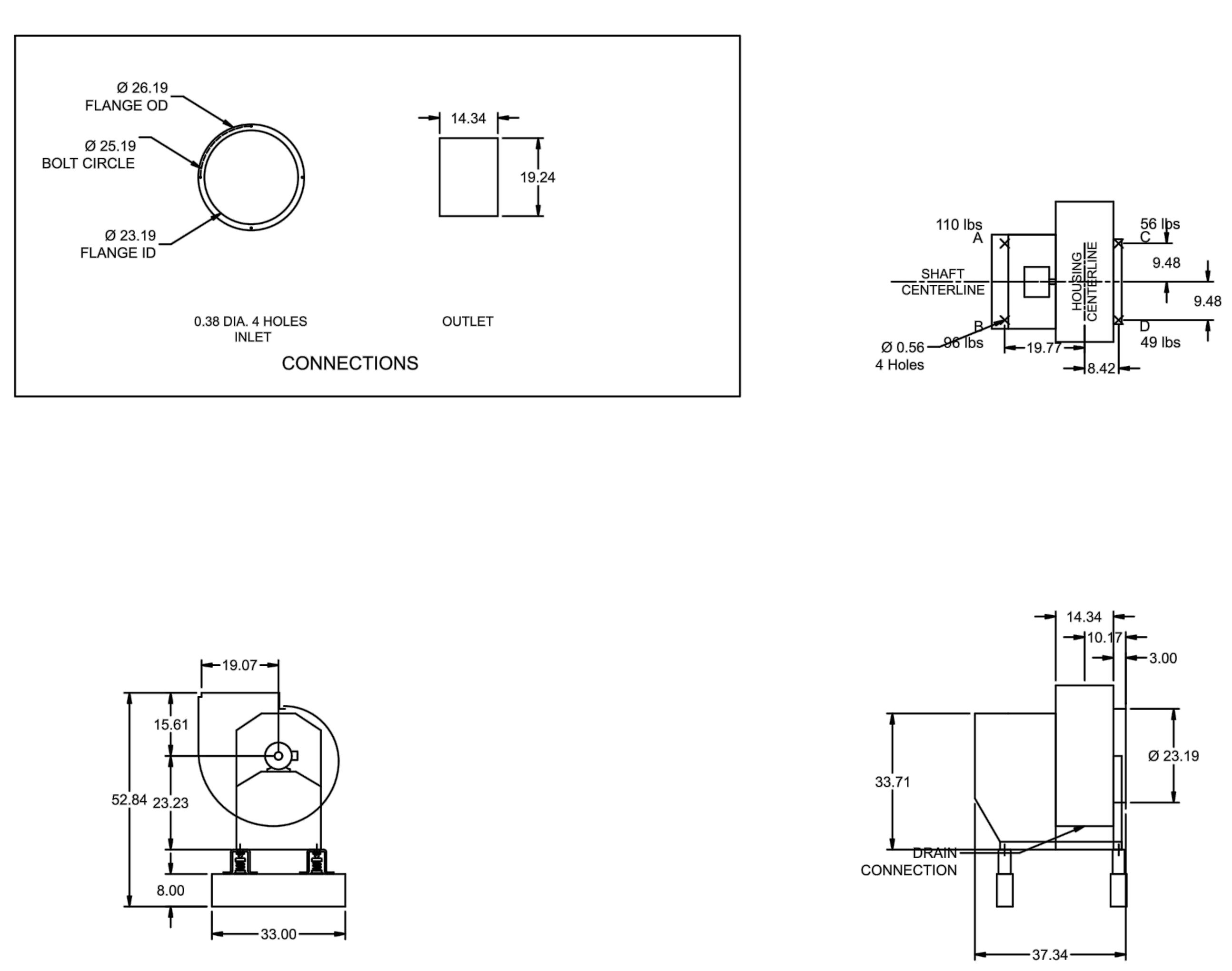
Universal Single Width Fan

MARK INFORMATION			FAN INFORMATION					MOTOR INFORMATION				
QTY	MARK	MODEL	VOLUME (CFM)	TOTAL EXTERNAL SP (IN WG)	FAN RPM	OPERATING POWER (HP)	WEIGHT (LB.)	SIZE (HP)	V/C/P	ENCLOSURE	MOTOR RPM	WINDINGS
1	231B - KEF-1	XUEF-18	3,752	2	1,410	1.85	314	5	208/60/3	OP	1170	1

231B - KEF-1 : SELECTED OPTIONS AND ACCESSORIES

Finish - Coated
Coating - Permatector, Concrete Gray-RAL 7023, Mill Finish on Aluminum Components
Direct Mount Isolators, Isolator-Spring, Restrained, 1 Inch, Indoor / Outdoor Use, Base Coating - N/A
Rotation - CW
Discharge Position - UB
Arrangement - 4
UL/cUL-762 Outdoor - Power Vent. for Restaurant Exhaust Appliances
Access Door - Bolted
Drain Connection - 1 inch threaded male
Inlet Flange, Punched
Outlet Connection, Slip Fit
Motor Cover - Steel Construction
Shaft Seal - Standard
Grease Trap, Shipped Loose
Fasteners - Standard



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LORO ASIAN SMOKEHOUSE & BAR

SHEET TITLE:
HOOD DRAWINGS

SHEET NUMBER:
M4.3

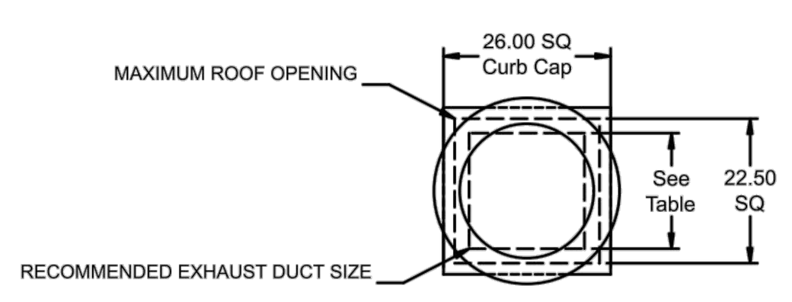
PROJECT NUMBER:
LAS23001

Direct Drive Upblast Centrifugal Roof Exhaust Fan

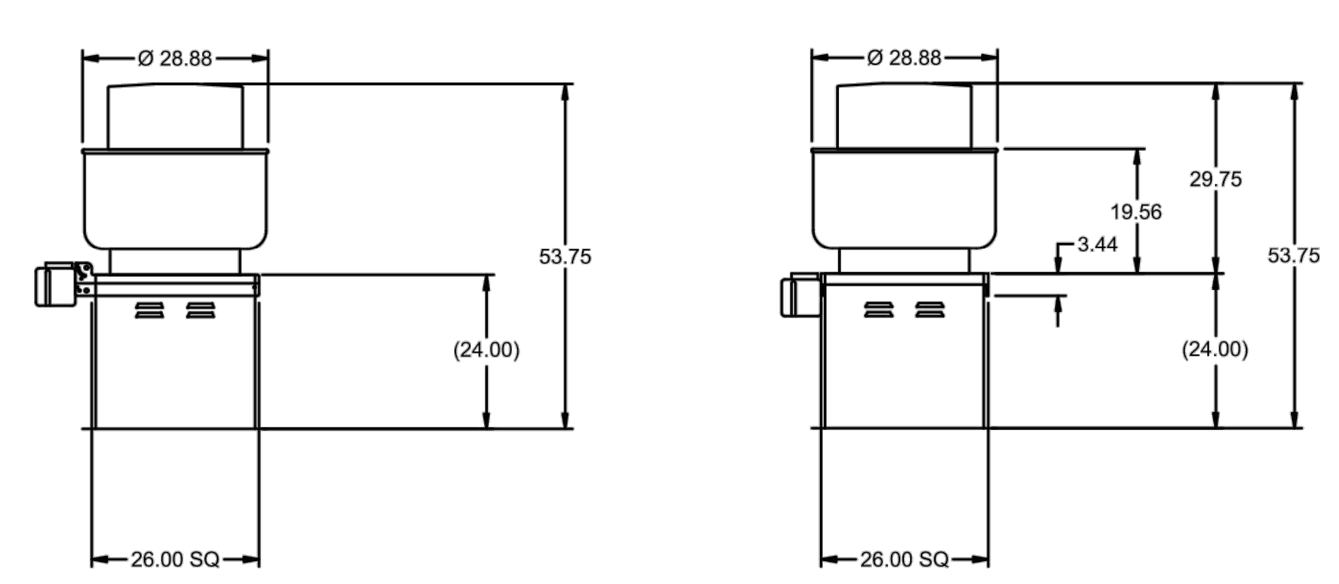
MARK INFORMATION		FAN INFORMATION						MOTOR INFORMATION					
QTY	MARK	MODEL	VOLUME (CFM)	TOTAL EXTERNAL SP (IN WG)	FAN RPM	OPERATING POWER (HP)	WEIGHT (LB.)	SIZE (HP)	V/C/P	ENCLOSURE	MOTOR RPM	WINDINGS	NEC FLA*
1	214B_ KEF-4	XCUE-140-A	2,000	1.25	1,614	0.79	96	1	208/60/3	OP	1725	1	4.6

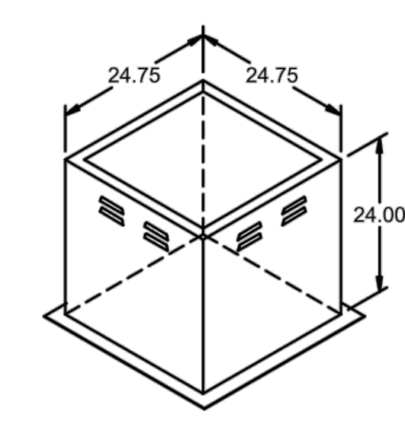
*NEC FLA - Based on table 430.250 or 430.248 of National Electrical Code 2020. Actual motor FLA may vary for sizing thermal overload, consult factory"

214B_ KEF-4 : SELECTED OPTIONS AND ACCESSORIES
Motor VFD Rated without Shaft Grounding Protection
One piece fully welded windband
Tapered bushing wheel hub
Breather tube outlet area min. 4.4 sq. in. (sizes 99-480), 2.0 sq. in. (sizes 60-95)
Min. windband material thickness: 0.051" aluminum (060-240), 0.064" aluminum (240HP, 240XP), 0.080" aluminum (sizes 300-480)
Larger Curb Cap Size - 26 Square
UL/cUL 705 Listed - Supplement SC - "Power Ventilators for Restaurant Exh. Appliances" (Formerly UL 762)
Switch, NEMA-3R, Toggle,
Hinge, Factory Installed
High Temp Curb Seal Rated for Continuous Duty at 1500 F (Factory Attached)
Grease Trap (PN 475538)
Conduit Chase Qty 1



DUCT TYPE	SIZE
STANDARD	18 SQ
FIRE-WRAPPED	12 SQ





DUCT DIMENSIONS ARE LARGEST POSSIBLE DUCT TO FIT THROUGH CURB. CONSULT SYSTEM DESIGN ENGINEER FOR RECOMMENDED DUCT SIZE.

OVERALL HEIGHT MAY BE GREATER DEPENDING ON MOTOR, ADAPTER, AND/OR HINGE BASE.

ACCUREX

PROJECT LORO AUSTIN TX (THE DOMAIN) REV.6
4/11/2024

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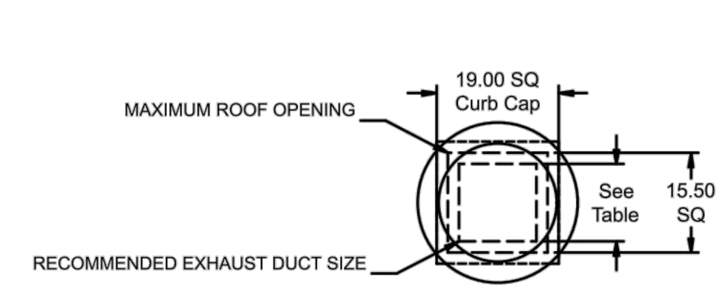
MARK 214B_ KEF-4

Direct Drive Upblast Centrifugal Roof Exhaust Fan

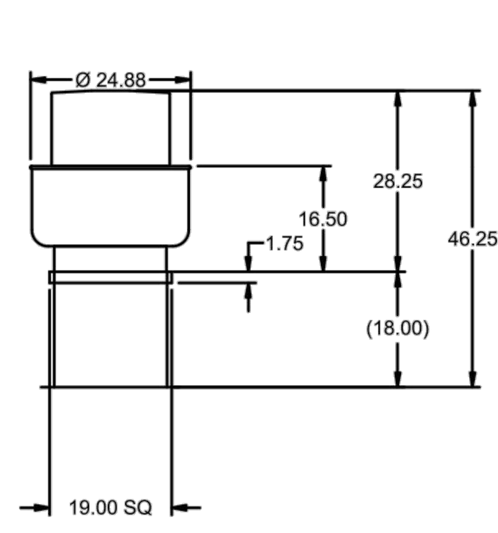
MARK INFORMATION		FAN INFORMATION						MOTOR INFORMATION					
QTY	MARK	MODEL	VOLUME (CFM)	TOTAL EXTERNAL SP (IN WG)	FAN RPM	OPERATING POWER (HP)	WEIGHT (LB.)	SIZE (HP)	V/C/P	ENCLOSURE	MOTOR RPM	WINDINGS	NEC FLA*
1	132 - DISH FAN	XCUE-120-VG	1,400	1	1,627	0.4	55	0.5	208/60/1	OP	1725	1	5.4

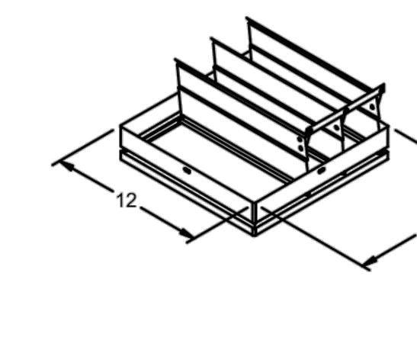
*NEC FLA - Based on table 430.250 or 430.248 of National Electrical Code 2020. Actual motor FLA may vary for sizing thermal overload, consult factory"

132 - DISH FAN : SELECTED OPTIONS AND ACCESSORIES
One piece fully welded windband
Tapered bushing wheel hub
Breather tube outlet area min. 4.4 sq. in. (sizes 99-480), 2.0 sq. in. (sizes 60-95)
Min. windband material thickness: 0.051" aluminum (060-240), 0.064" aluminum (240HP, 240XP), 0.080" aluminum (sizes 300-480)
Standard Curb Cap Size - 19 Square
UL/cUL 705 Listed - "Power Ventilators"
Switch, NEMA-1, Toggle,
Foam Curb Seal (Factory Applied)
Damper Shipped Loose, BD-100-PB-12X12, Gravity Operated, Not Coated, Nominal Size
Conduit Chase Qty 1

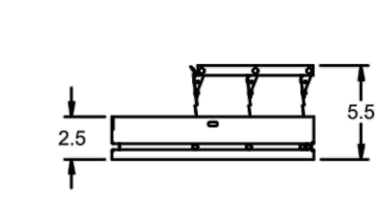


DUCT TYPE	SIZE
STANDARD	12 SQ
FIRE-WRAPPED	8 SQ

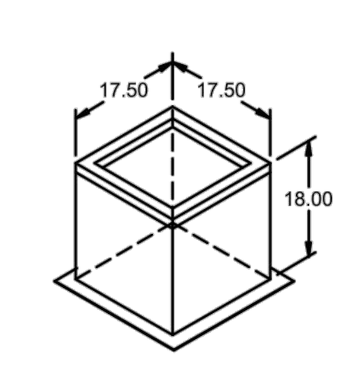




DAMPER



TYP. SECTION VIEW



DUCT DIMENSIONS ARE LARGEST POSSIBLE DUCT TO FIT THROUGH CURB. CONSULT SYSTEM DESIGN ENGINEER FOR RECOMMENDED DUCT SIZE.

OVERALL HEIGHT MAY BE GREATER DEPENDING ON MOTOR, ADAPTER, AND/OR HINGE BASE.

ACCUREX

PROJECT LORO AUSTIN TX (THE DOMAIN) REV.6
4/11/2024

ACCUREX SOUTHERN CA & HAWAII - 2297
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MARK 132 - DISH FAN

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TBPE FIRM REGISTRATION# F-11678

JOHN G. SISK 101280

05/24/2024
ISSUE FOR CONSTRUCTION

LORO'S ASIAN SMOKEHOUSE & BAR
AUSTIN, TX
11601 DOMAIN DR. #200
AUSTIN, TEXAS 78758

CLIENT: HAI HOSPITALITY
1306 W. OLTORF STREET, SUITE C
AUSTIN, TEXAS 78704

LORO ASIAN SMOKEHOUSE & BAR

DATE	DESCRIPTION
10.27.2023	ISSUE FOR PERMIT
04.12.2024	ISSUE FOR CONSTRUCTION

△	DATE	DESCRIPTION
1	02/05/24	OWNER COMMENTS - VE
3	04/12/24	OWNER COMMENTS - VE

SHEET TITLE:
HOOD DRAWINGS

SHEET NUMBER:
M4.4

PROJECT NUMBER:
LAS23001

ACCUREX

PROJECT: LORO AUSTIN TX (THE DOMAIN)
REV.6
4/11/2024
MARK: MAU-1

ACCUREX SOUTHERN CA HAWAII - 2297
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EQUIPMENT SCHEDULE

Packaged Ventilator				
Mark Name	Qty	Model	Mounting Location	Weight
MAU-1	1	XRV-25-15I-J-A1	Outdoor	2,471 lb

Supply Fan						Electrical				
Supply Volume	Supply ESP	Supply TSP	FRPM	Supply BHP	Supply Motor	Voltage	Frequency	Phase	Unit MCA	Unit MOP
6,120 CFM	1 in. wg	3.972 in. wg	2741	7.072	(1) 10 hp	208	60	3	103.4	150

Cooling Section														
Coil Entering DB	Coil Entering WB	Coil Leaving DB	Coil Leaving WB	Nominal Tonnage	Total Capacity	Sensible Capacity	Coil Face Velociy	Coil Pressure Drop	Rows Deep	Fins per Inch	Compressor Type	Compressor Qty	Refrigerant Type	AHRI 920 ISMRE	AHRI 920 ISMRE2
99.7 F	79.1 F	70.3 F	69.9 F	15.0	237.6 MBH	197.3 MBH	461 ft/min	0.753 in. wg	6	14	Inverter Scroll	1	R-410a	8.4	7.9

Heating Section							Hot Gas Reheat	
Gas Type	Input	Output	EAT	LAT	Furnace Control	Temp Rise	Hot Gas Reheat Capacity	LAT
Natural	300.0 MBH	243.0 MBH	25.2 F	61.9 F	4:1 Modulating	36.7 F	168.4 MBH	95.8 F

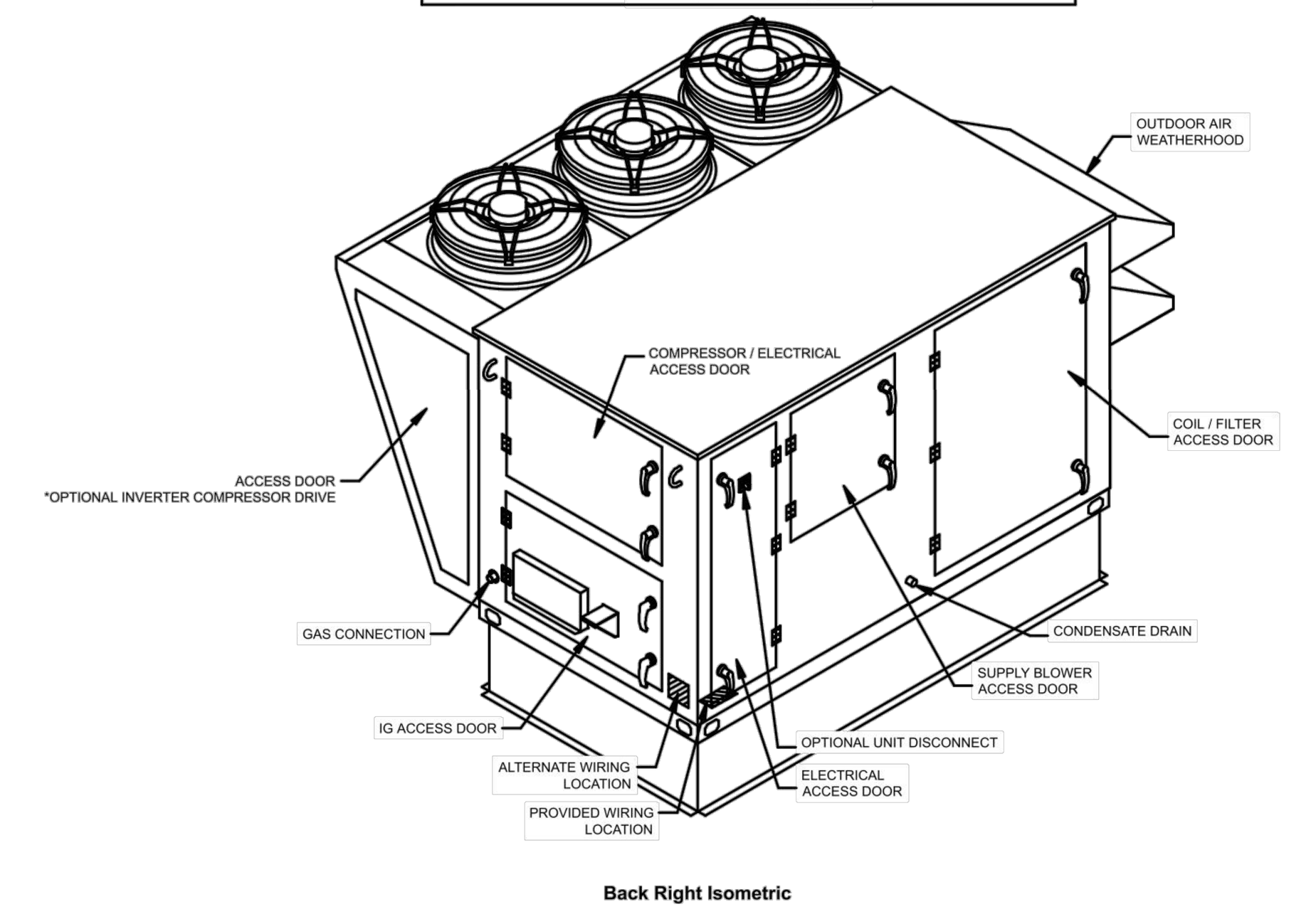
NOTES

Painted exterior with 2,500 hr. salt spray rating.
Double wall 2" R13 injected foam insulated cabinet.
Single condenser fan shall not exceed a sound power level of 75 LwA.
Compressors mounted on a shelf behind an insulated door for minimized radiated and transmitted sound.
Direct-drive fans with factory mounted VFDs.
Controller must have simplified access via a laptop to view and change unit operation, set points, alarm history & 1 week of trending data.
Inverter scroll lead compressor with a 5 year warranty.
Modulating gas furnace with 4:1 Modulating turndown and a 25 year HX warranty.

OPTIONS AND ACCESSORIES

Weatherhood: Downturned Hood
Supply Filters - 2" Pleated MERV 13, 2-20x22x2, 2-20x24x2
Outdoor Air Dampers - Motorized Low Leakage
Recirc Dampers - Motorized Low Leakage
Painted Exterior - Concrete Gray (RAL 7023)
Microprocessor Controls
Supply Fan VFD Control - 0-10VDC By Others
OA RH Sensor
Space Thermostat - 1 Temperature Only
Network Protocol: BACNetMSTP
Phase and Brown Out Protection
Branch Circuit Fusing
Unit Disconnect - Mounted By Factory
Hail Guards
Shipped Loose Smoke Detectors - Supply
Condensate Overflow Switch
Unit Warranty: 18 Months Standard
Extended Compressor Warranty: 5 Yrs

Component Layout

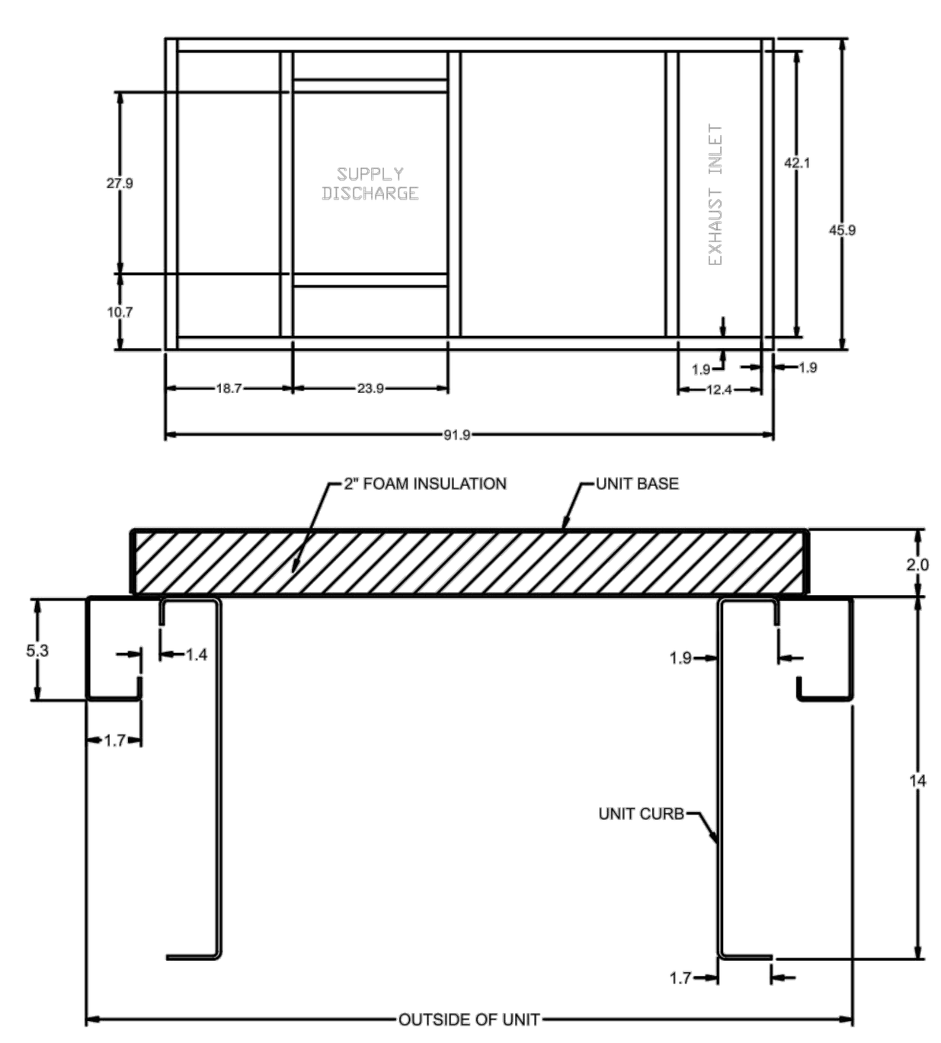


Back Right Isometric

Curb Installation Instructions

1. Factory supplied roof curbs. Roof curbs are model GKD which ship in a knockdown kit (includes duct adapters) and require field assembly (by others) on all units except XRV-110 which are shipped assembled. Assembly instructions are included with the curb kit.
2. Install curb. Locate curb over roof opening and fasten in place. Check that the diagonal dimensions are within ± 1/8 inch of each other and adjust as necessary. For proper coil drainage and unit operation, it is important that the installation be level. Shim the curb as required to level. Install gasketing on top surface of curb (provided by others).
3. Install ductwork. Installation of all ducts should be done in accordance with SMACNA and AMCA guidelines. Duct adapters are provided to support ducts prior to setting the unit.
4. Set the unit. Lift unit to a point directly above the curb and duct openings. Guide unit while lowering to align with duct openings. Roof curbs fit inside the unit base. Make sure the unit is properly seated on the curb and level.
5. Fasten the unit. Fasten the unit to the curb/equipment support(s) using the appropriate methods. The installer is responsible for determining appropriate support and fastening methods to ensure compliance with all applicable codes.
6. Install vestibule. If unit was ordered with a vestibule and it has not yet been attached to the unit, caulk and attach the vestibule at this time.

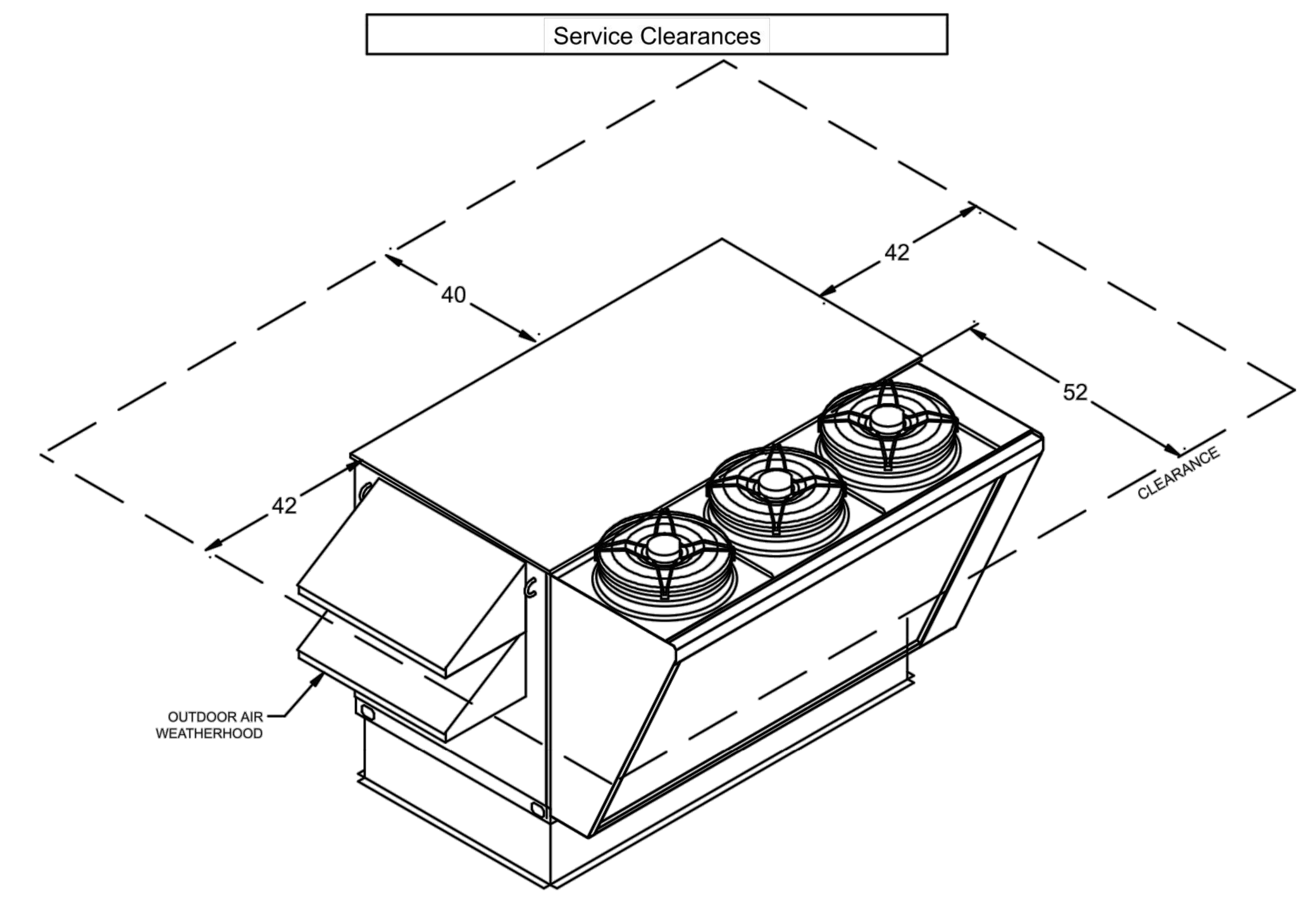
Curb Detail



Curb Specifications

Height (in)	Length (in)	Width (in)	Material	Finish Type	Duct Adapter	Weight (lb)
14	91.9	45.9	Galvanized	Galvanized	Yes	223

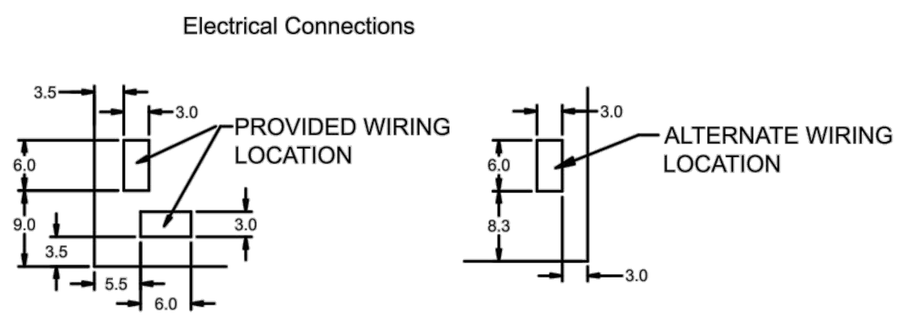
Service Clearances

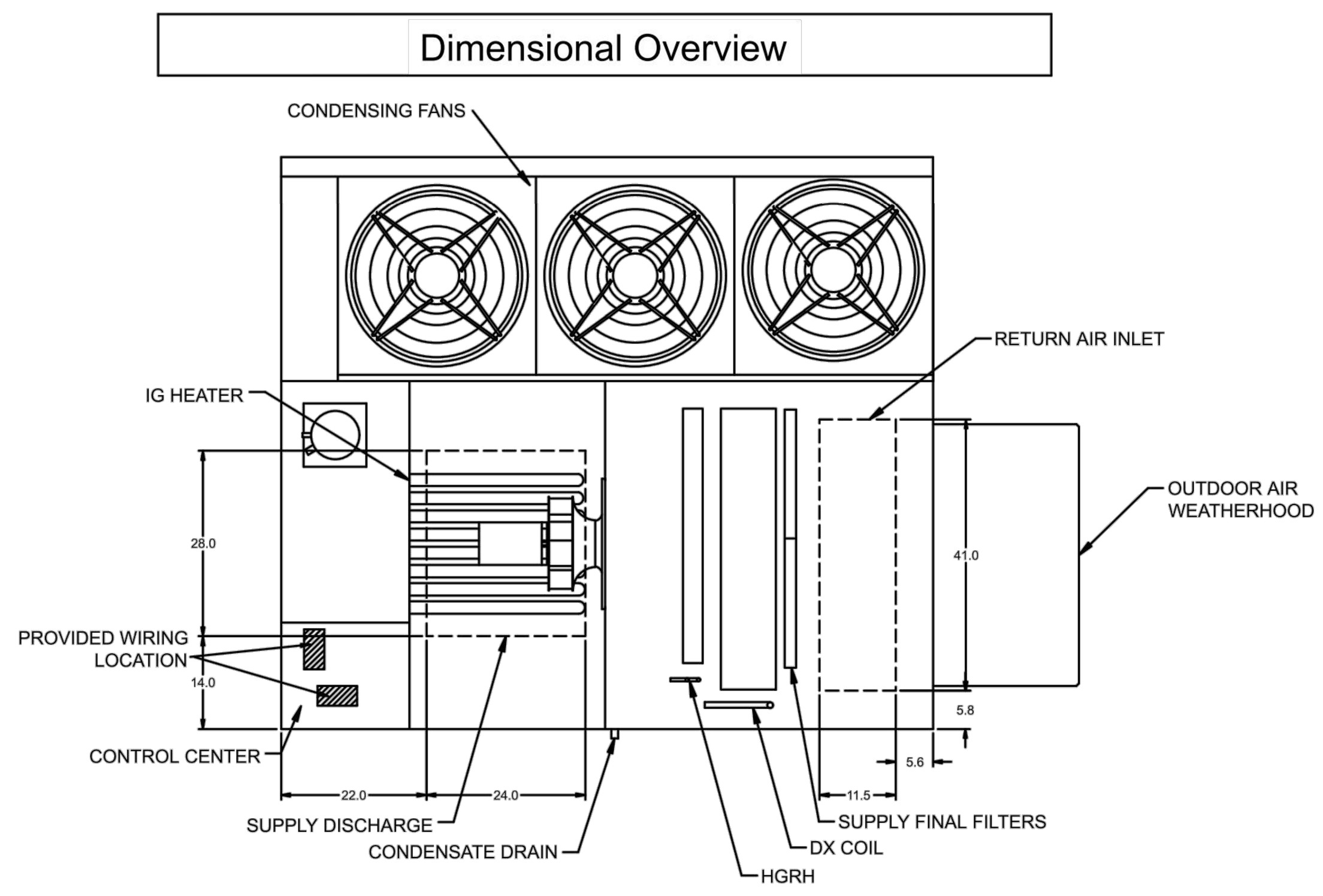


Front Left Isometric

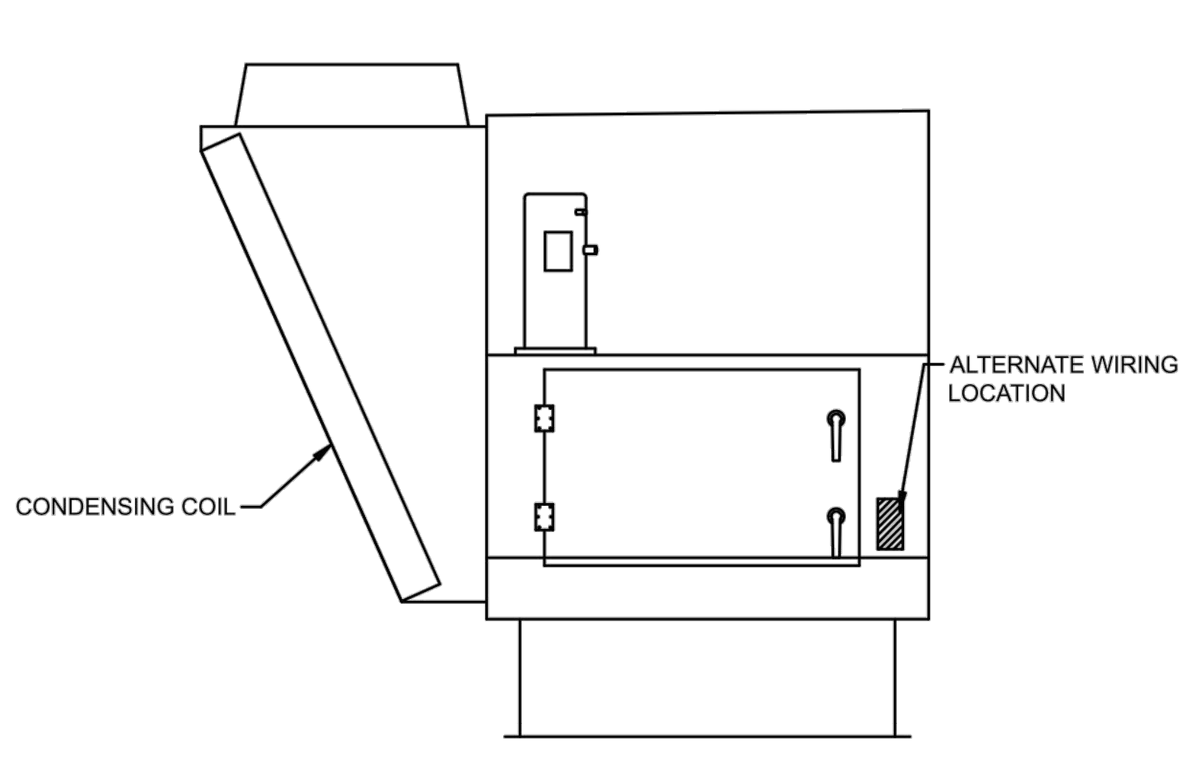
Dimensional Overview

Electrical Connections

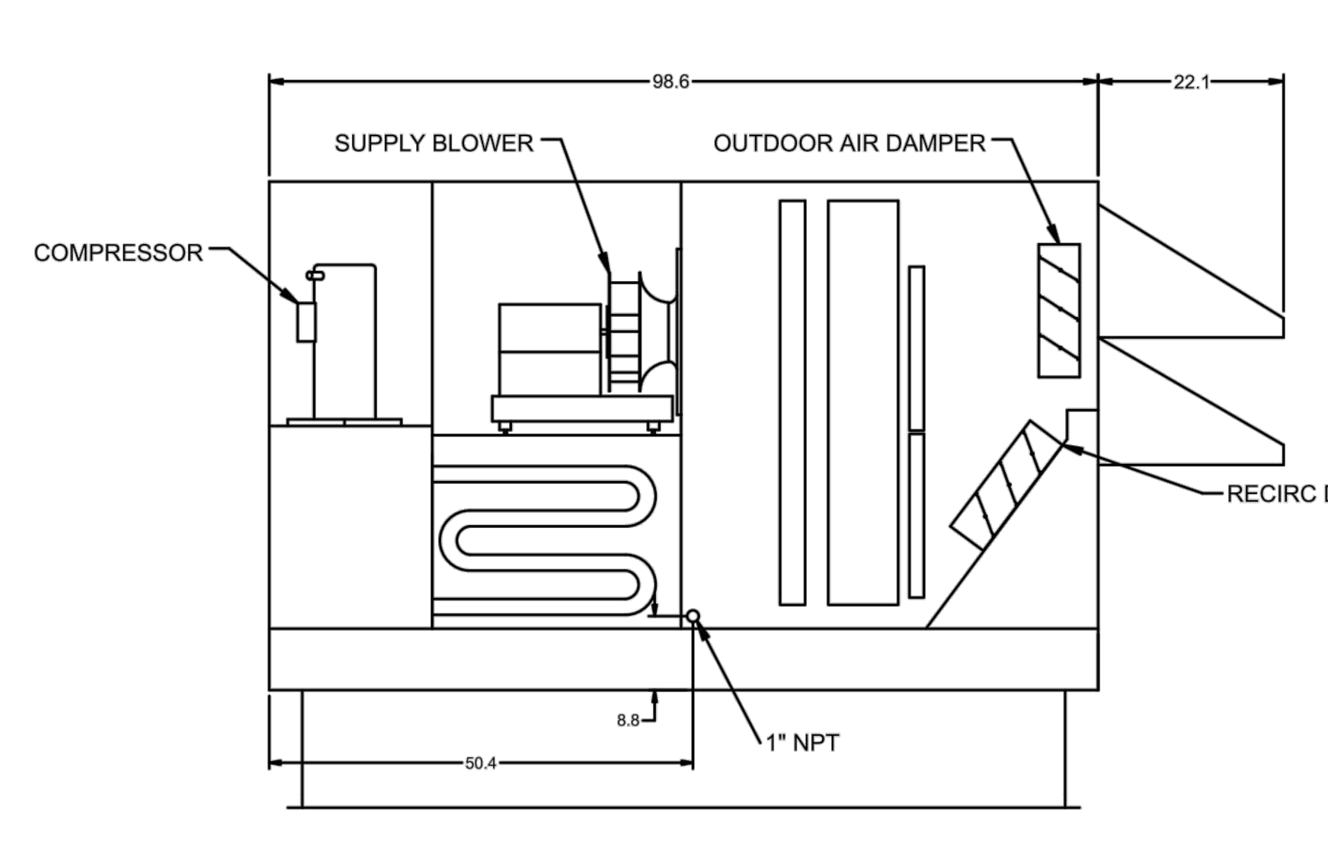




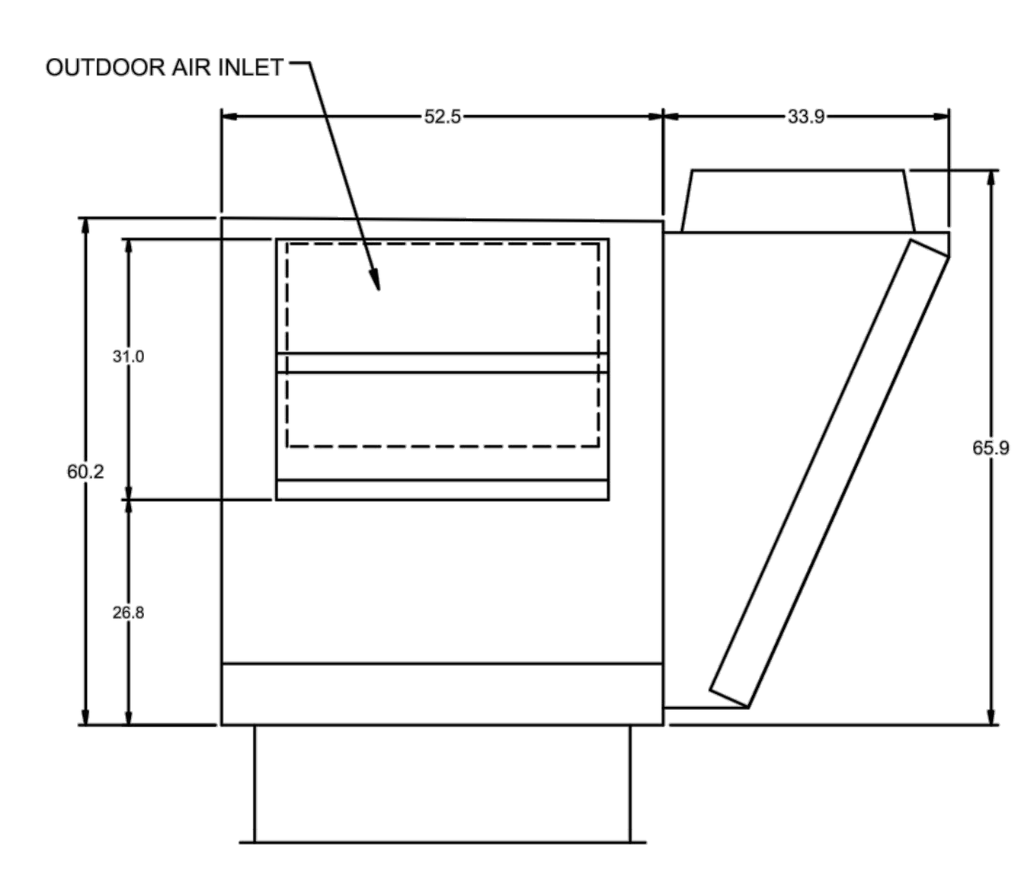
Plan



Left End



Elevation



Right End

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SHEET TITLE:
HOOD DRAWINGS

SHEET NUMBER:
M4.5

PROJECT NUMBER:
LAS23001

A

ACCUREX

CONSTRUCTION COMPLIES WITH NFPA 96

ACCUREX

Wiring Diagram Code:
A4K51P1RX0052GS22

CAUTION
UNIT SHALL BE GROUNDED IN ACCORDANCE WITH N.E.C.
POWER MUST BE OFF WHILE SERVICING.

NOTES
USE COPPER CONDUCTORS ONLY
60° C FOR TERMINALS RATED LESS THAN 100 AMPS.
75° C FOR TERMINALS RATED 100 AMPS OR MORE.
FIELD CONTROL WIRING RESISTANCE SHOULD NOT EXCEED 0.75 OHM.
FIELD WIRED - - - - -
FACTORY SUPPLIED AND WIRED ———
NOTE: 1
MODBUS COMMUNICATION WIRING. DAISY CHAIN TO ALL MODBUS DEVICES.

WIRE COLOR CODE

BK	BLACK	BL	BLUE	BR	BROWN
GY	GRAY	LT BL	LIGHT BLUE	O	ORANGE
PK	PINK	PR	PURPLE	R	RED
W	WHITE	Y	YELLOW		

LEGEND

CM	COMBUSTION BLOWER MOTOR
FU#	FUSE(S)
HLC	HIGH TEMPERATURE LIMIT CONTROL
IC1	IGNITION CONTROL
IR	INDUCTION RELAY
MDV	MODULATING VALVE
MV	MAIN GAS VALVE
PS2	COMBUSTION AIR PROVING SWITCH
PS5	HIGH SPEED PRESSURE SWITCH
SC1	STAGE CONTROLLER
TR#	TRANSFORMER(S)

Wiring Template: S22 DOC NUMBER: 2810022 REV: 16

INDIRECT GAS WIRING DIAGRAM
FURNACE 1 - 4:1 MODULATING

3

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PROJECT
4/11/2024 LORO AUSTIN TX (THE DOMAIN)
REV.6

MARK
MAU-1

CONSTRUCTION COMPLIES WITH NFPA 96

SENSORS

SAD: Supply air discharge temperature
OAI: Outdoor air intake temperature
CS: Condensate overflow switch
CCT: Cooling coil temperature
OARH: Outdoor air intake relative humidity
ST: Space temperature

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SHEET TITLE:
HOOD DRAWINGS

SHEET NUMBER:
M4.6

PROJECT NUMBER:
LAS23001

GENERAL NOTES

A.	ALL OUTDOOR AIR INTAKES BY MECHANICAL EQUIPMENT SHALL HAVE A MINIMUM 10'–0" HORIZONTAL CLEARANCE FROM THE DISCHARGE OF ANY EXHAUST FAN, COMBUSTION EXHAUST OR PLUMBING VENT.
B.	PROVIDE VIBRATION ISOLATION DEVICES AND FLEXIBLE DUCT/ PIPING CONNECTIONS TO ALL MOVING MACHINERY NOT INTERNALLY ISOLATED.
C.	ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL ELECTRICAL WORK SHOWN ON THE MECHANICAL DRAWINGS.
D.	ALL METALLIC NATURAL GAS PIPING EXPOSED ON THE ROOF SHALL BE FIELD PAINTED **YELLOW** WITH WEATHER RESISTANT PAINT, BY THE INSTALLING CONTRACTOR.
E.	GENERAL CONTRACTOR TO FIELD VERIFY STRUCTURAL ELEVATIONS FOR ADEQUATE SPACE FOR NEW DUCTWORK, PIPING, AND EQUIPMENT ABOVE THE CEILING. NOTIFY OWNER AND DESIGNER IMMEDIATELY OF ANY SUSPECTED INSTALLATION OR FIELD ISSUES RELATING TO THIS SPACE.

A

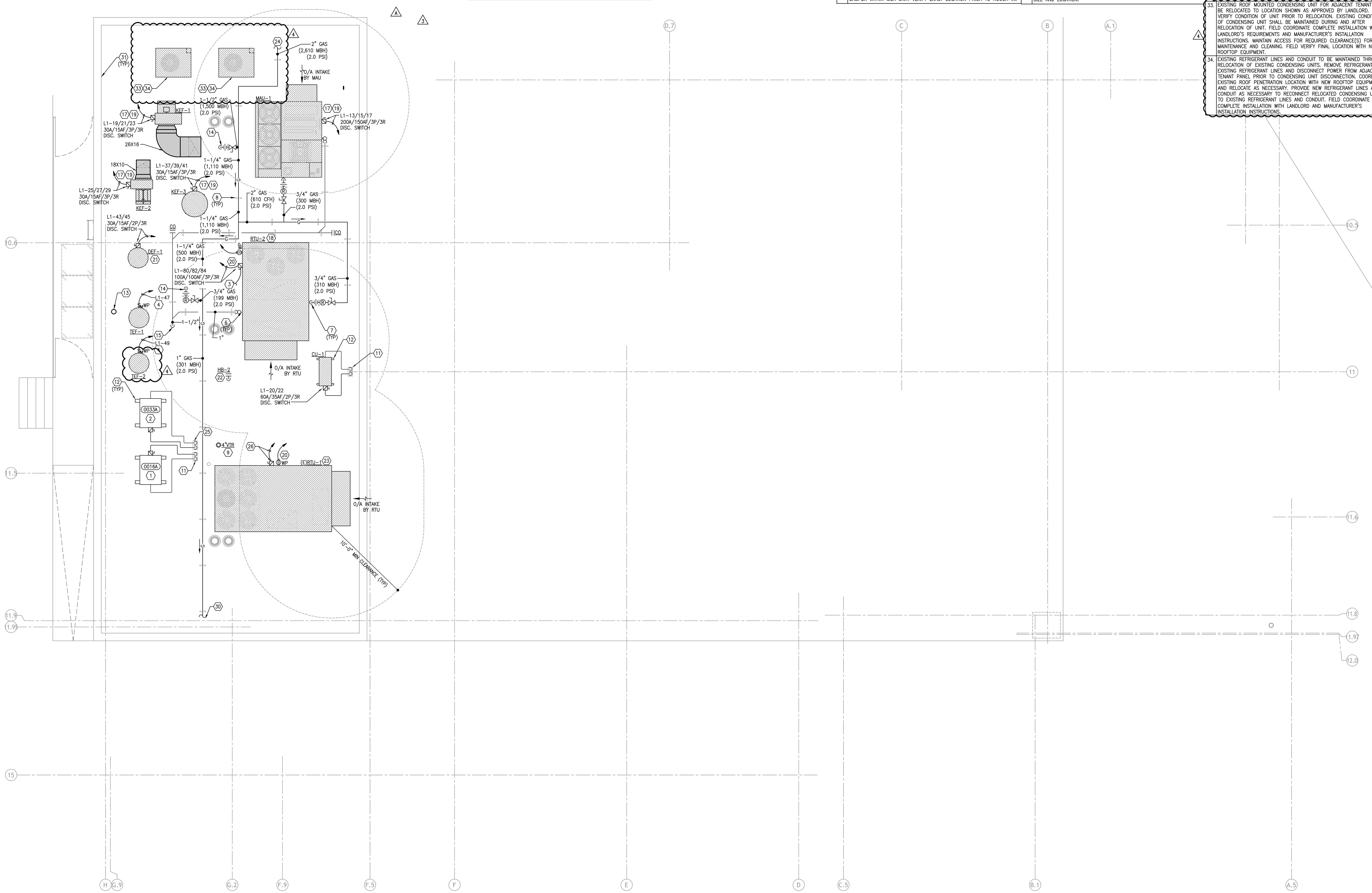
GENERAL NOTES

A.	ALL ROOFTOP EQUIPMENT SHALL BE SURROUNDED BY WALKWAY PADS AS APPROVED BY LANDLORD. COORDINATE FINAL LOCATION, MATERIAL , AND INSTALLATION OF PADS WITH THE OPERATIONS TEAM PRIOR TO START OF ANY WORK. (4)
B.	ALL ROOF PENETRATIONS TO ROOF MUST BE APPROVED BY LANDLORD. ALL ROOF WORK MUST BE DONE BY **DOMAIN NORTHSIDE ROOFING CONTRACTOR** AS APPROVED BY LANDLORD.
C.	ALL ROOFTOP EQUIPMENT SHALL BE MECHANICALLY FASTENED TO ROOF.
D.	ALL PIPING ON ROOF SHALL BE SUPPORTED ON PRE–MANUFACTURED PIPE SUPPORTS INSTALLED ON CARRY TREAD, SPACED PROPERLY TO SUPPORT PIPING.
E.	ALL CONDENSATION, ELECTRICAL, AND DUCTWORK SHALL BE SET INSIDE THE PERIMETER OF THE CURB AS APPROVED BY LANDLORD. CONDENSATE SHALL DRAIN INTO AN INTERIOR FLOOR DRAIN OR MOP SINK LOCATION WITHIN THE SPACE.
F.	ALL ROOFTOP EQUIPMENT SHALL BE LABELED IN ACCORDANCE WITH LANDLORD DESIGN CRITERIA. LABEL SHALL INCLUDE TENANT NAME, SPACE NUMBER, AND EQUIPMENT IDENTIFICATION. (4)

A 3

KEYED NOTES

#	KEYED NOTES
1.	INTERWIRE SERVICE FROM COOLER COMPRESSOR AND TIMECLOCK TO BLOWER COIL FOR AUTOMATIC DEFROST SYSTEM TO STOP COMPRESSOR BLOWER COIL FANS AND START HEATERS IN COIL. RUN CONDUIT ABOVE CEILING. THESE ITEMS ARE NOT PRE–WIRED AND WILL REQUIRE CONNECTIONS BY ELECTRICIAN AND FIELD WIRING.
2.	INTERWIRE SERVICE FROM BEER COOLER COMPRESSOR AND TIMECLOCK TO BLOWER COIL FOR AUTOMATIC DEFROST SYSTEM TO STOP COMPRESSOR BLOWER COIL FANS AND START HEATERS IN COIL. RUN CONDUIT ABOVE CEILING. THESE ITEMS ARE NOT PRE–WIRED AND WILL REQUIRE CONNECTIONS BY ELECTRICIAN AND FIELD WIRING.
3.	ELECTRICAL CONTRACTOR SHALL RUN CONTROL WIRING TO ROOF TOP UNITS, SENSORS, AND THERMOSTATS. COORDINATE WITH MECHANICAL CONTRACTOR.
4.	WEATHERPROOF MOTOR RATED SWITCH. PROVIDE 24" FLEXIBLE LOOP CONNECTION TO UNIT FOR MAINTENANCE.
5.	VERIFY LOCATION & NUMBER OF SIGNS WITH SIGN VENDOR. RUN SIGN CIRCUITS THROUGH RELAY, REFER TO EXTERIOR LIGHTING CONTROL DIAGRAM, **REFER TO 6/E3.0**. PROVIDE FLUSH MOUNTED WP J–BOX IN EXTERIOR FACE OF WALL. PROVIDE DISCONNECTING MEANS PER NEC AND LOCAL AUTHORITY HAVING JURISDICTION.
6.	CONDENSATE DRAIN PIPING FROM THE HVAC UNIT SHALL BE ROUTED ON THE ROOF AS SHOWN, AT A MINIMUM PITCH OF 1/4" PER FOOT IN THE DIRECTION OF FLOW. REFER TO THE PLUMBING DWV PLAN FOR CONTINUATION OF CONDENSATE DRAINAGE PIPING BELOW THE ROOF.
7.	GAS PIPING TO THE MECHANICAL UNIT SHALL BE COMPLETE WITH GAS COCK, UNION, PRESSURE REGULATOR & 6" DIRT LEG.
8.	ALL PIPING INSTALLED ON THE ROOF SHALL BE SUPPORTED WITH PRE–MANUFACTURED ADJUSTABLE PIPE SUPPORTS AT MAXIMUM 5'–0" ON CENTER AND EVERY CHANGE OF DIRECTION.
9.	ROOF MOUNTED VTR, SIZED AS SHOWN. INSTALLED LOCATION SHALL BE A MINIMUM OF 10'–0" FROM ANY OUTDOOR AIR INTAKE. TOP OF VTR STACK SHALL BE EVEN WITH PARAPET WALL.
10.	INSTALL COMPLETE WITH MANUFACTURER FURNISHED WINDBAND EXTENSION COLLAR TO PROVIDE A MINIMUM **36" VERTICAL SEPARATION PER SECTION 401.4 OF THE 2021 IMC**, FROM THE EXHAUST TERMINATION ABOVE THE INTAKE OF ANY ADJACENT MECHANICAL EQUIPMENT.
11.	PRE–MANUFACTURED ROOF JACK FOR REFRIGERATION PIPING AND POWER CONDUIT(S) SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. REFER TO ARCHITECTURAL DETAILS FOR DIRECTION. THE MC, EC AND GC SHALL COORDINATE FOR A COMPLETE INSTALLATION. (4)
12.	CONDENSING UNIT SHALL BE INSTALLED PER MANUFACTURERS CURB INSTALLATION INSTRUCTIONS (AS APPROVED BY THE MANUFACTURER. FIELD COORDINATE THE COMPLETE INSTALLATION. REF **2/M3.1** FOR PROPOSED MOUNTING.
13.	MANUFACTURER'S AVAILABLE CONCENTRIC COMBUSTION AIR VENT FOR THE GAS FIRED TANK WATER HEATERS BELOW. COORDINATE THE ROOF PENETRATIONS, FLASHINGS AND COUNTER–FLASHINGS WITH THE GENERAL CONTRACTOR.
14.	GAS PIPING SHALL BE ROUTED DOWN THROUGH THE ROOF. PROVIDE WEATHER TIGHT SEAL AT PIPE PENETRATION. REFER TO THE GAS PLUMBING PLAN FOR CONTINUATION OF PIPING BELOW THE ROOF.
15.	HVAC CONDENSATE DRAIN PIPING SHALL BE ROUTED DOWN THROUGH THE ROOF TO TERMINATION BELOW. REFER TO THE PLUMBING DWV PLAN FOR CONTINUATION OF CONDENSATE DRAINAGE PIPING BELOW THE ROOF.
16.	PROVIDE AND INSTALL A WEATHERPROOF JUNCTION BOX FOR MOTORIZED DAMPER WITHIN MUA UNIT. VERIFY EXACT LOCATION PRIOR TO ROUGH IN.
17.	CONTRACTOR SHALL PROVIDE ALL ELECTRICAL CONNECTIONS, WIRING AND CONDUITS NECESSARY FOR THE INTERLOCKING OF KITCHEN EXHAUST FANS AND MAKEUP AIR UNIT THROUGH THE KITCHEN CONTROL PANEL. (A)
18.	NEW ROOFTOP UNIT SHALL BE LOCATED IN EXISTING ROOFTOP UNIT LOCATION AND SHALL REUSE EXISTING ROOF OPENING. FIELD VERIFY SIZE AND LOCATION PRIOR TO INSTALLATION. FIELD COORDINATE WITH EXISTING STRUCTURE.
19.	WEATHER PROOF DISCONNECT SWITCH, SIZE AS NOTED, ROUTE FEEDER DOWN TO PRE–WIRED ELECTRICAL CONTROL PANEL ON KITCHEN HOOD. DISCONNECT SWITCH TO ARRIVE FACTORY INSTALLED ON FAN.
20.	WEATHER PROOF DISCONNECT SWITCH TO ARRIVE FACTORY INSTALLED ON RTU.
21.	ROUTE ELECTRICAL POWER FROM EXHAUST FAN THROUGH DISHWASHER CONTROLLER. REFER TO DISHWASHER EXHAUST ELECTRICAL SCHEMATIC DIAGRAM.
22.	ROUTE 3/4" COLD WATER UP THROUGH ROOF AND CONNECT TO ROOF HYDRANT. REFER TO THE WATER AND GAS PLUMBING PLAN FOR CONTINUATION OF PIPING BELOW THE ROOF. (3)
23.	EXISTING ROOFTOP UNIT SHALL BE EXISTING TO REMAIN. FIELD VERIFY SIZE AND LOCATION.
24.	FIELD ROUTE GAS SERVICE PIPING UP FROM EXISTING GAS METER AND MANIFOLD. ROUTE ON THE ROOF AS SHOWN. REFER TO SHEET **P1.3** PLAN FOR CONTINUATION.
25.	24" X 24" ROOF JACK FOR BLIZZARD BEER SYSTEM. OPENING IN ROOF BY GC, ROOF JACK BY BLIZZARD. BEER SYSTEM GLYCOL AND POWER TO BE ROUTED THROUGH BLIZZARD ROOF JACK.
26.	EXISTING DISCONNECT SWITCH AND CIRCUIT TO REMAIN.
27.	EXISTING GAS MANIFOLD.
29.	REMOTE ROOF MOUNTED CONDENSING UNIT FOR WALL MOUNTED DUCTLESS AIR HANDLING UNIT IN OUTDOOR BAR BELOW.
30.	FIELD ROUTE GAS SERVICE PIPING DOWN TO PATIO. REFER TO SHEET P1.3 PLAN FOR CONTINUATION.
31.	EXISTING PARAPET EXCEEDS **42"** IN HEIGHT. NO SAFETY RAIL GUARDS REQUIRED PER **SECTION 303.8.4** OF THE **2021 UNIFORM MECHANICAL** CODE.
32.	ROUTE GREASE EXHAUST DUCT FROM ROOF MOUNTED EXHAUST FAN DOWN THRU ROOF. COORDINATE ROOF PENETRATION AND FLASHING WITH ROOFING CONTRACTOR. REFER TO **M2.0** FOR PROPOSED MATERIALS OF THE ROOF MOUNTED DUCTWORK.
33.	EXISTING ROOF MOUNTED CONDENSING UNIT FOR ADJACENT TENANT SHALL BE RELOCATED TO LOCATION SHOWN AS APPROVED BY LANDLORD. FIELD VERIFY CONDITION OF UNIT PRIOR TO RELOCATION. EXISTING CONDITION OF CONDENSING UNIT SHALL BE MAINTAINED DURING AND AFTER RELOCATION OF UNIT. FIELD COORDINATE COMPLETE INSTALLATION WITH LANDLORD'S REQUIREMENTS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS. MAINTAIN ACCESS FOR REQUIRED CLEARANCE(S) FOR MAINTENANCE AND CLEANING. FIELD VERIFY FINAL LOCATION WITH NEW ROOFTOP EQUIPMENT. (4)
34.	EXISTING REFRIGERANT LINES AND CONDUIT TO BE MAINTAINED THROUGH RELOCATION OF EXISTING CONDENSING UNITS. REMOVE REFRIGERANT FROM EXISTING REFRIGERANT LINES AND DISCONNECT POWER FROM ADJACENT TENANT PANEL PRIOR TO CONDENSING UNIT DISCONNECTION. COORDINATE EXISTING ROOF PENETRATION LOCATION WITH NEW ROOFTOP EQUIPMENT AND RELOCATE AS NECESSARY. PROVIDE NEW REFRIGERANT LINES AND CONDUIT AS NECESSARY TO RECONNECT RELOCATED CONDENSING UNITS TO EXISTING REFRIGERANT LINES AND CONDUIT. FIELD COORDINATE COMPLETE INSTALLATION WITH LANDLORD AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.



MEP ROOF PLAN 1
SCALE: 1/4" = 1'-0"

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JOHN G. SISK 101280 LICENSED PROFESSIONAL ENGINEER

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4	06/10/24	OWNER COMMENTS - VE

MEP ROOF PLAN

MEP1.0

PROJECT NUMBER:
LAS23001