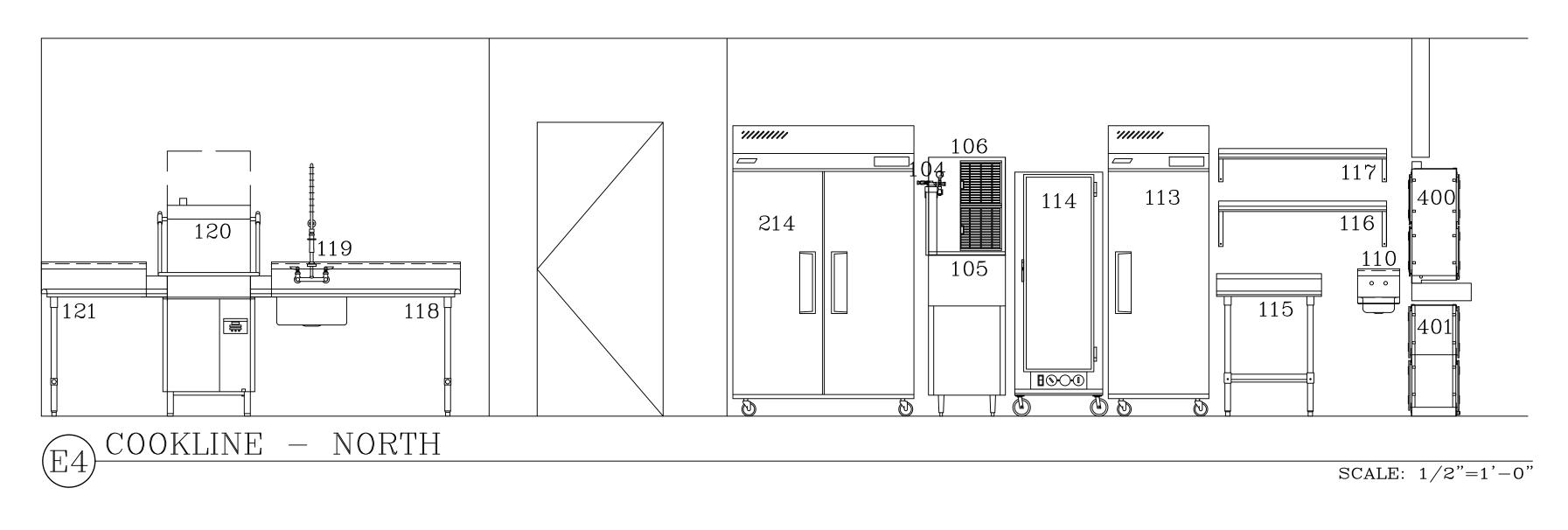
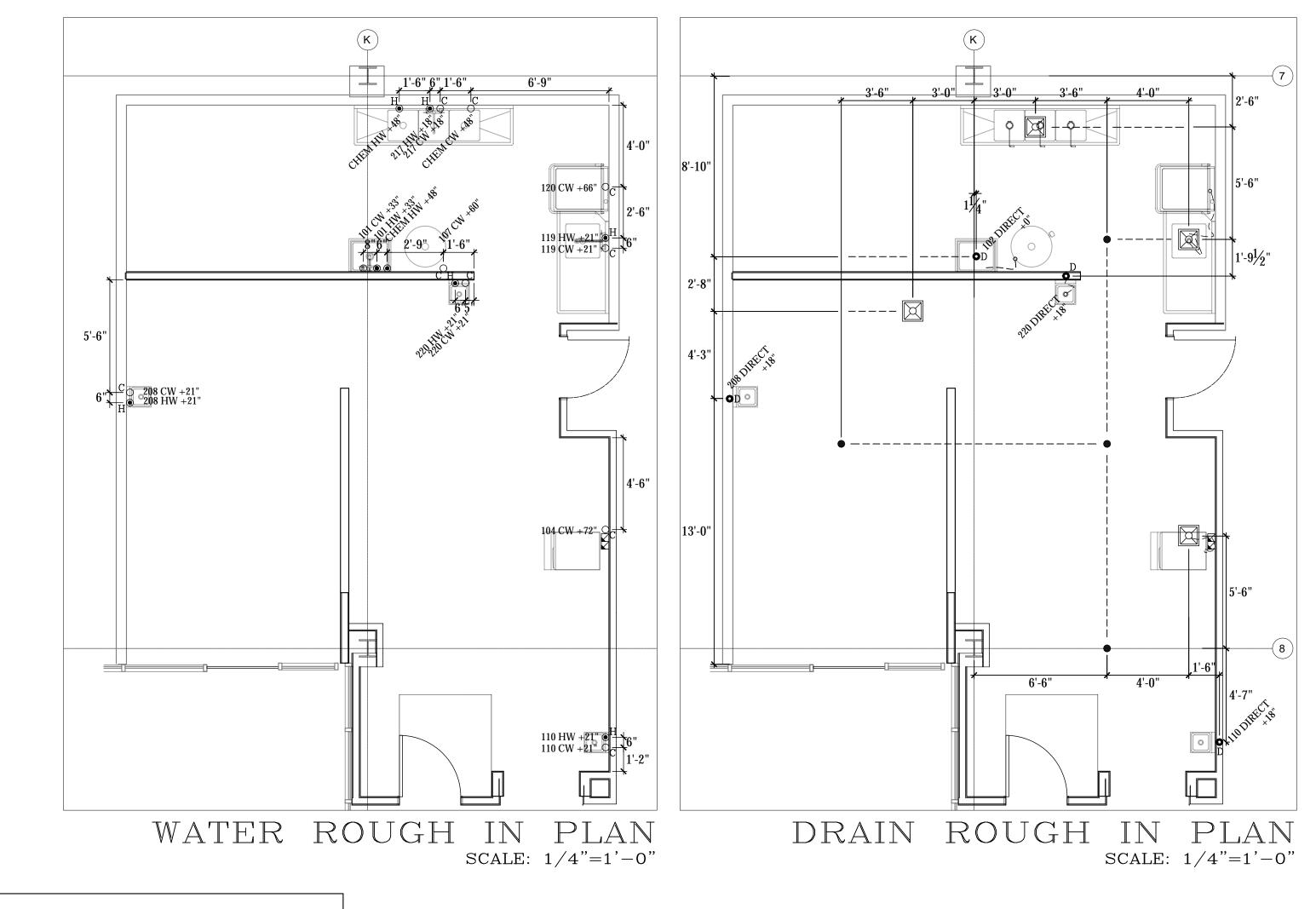


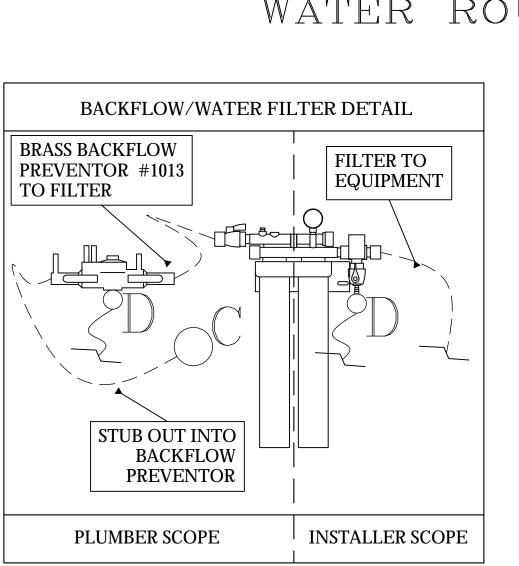
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2RQUIDED	STOP SECTION STOP	AFRICAL STATE OF STAT	Model	Description Description	Equipment Remain	Hard Wife Direct. Not	Prose Arnos	HP Electrical Rough Int. Lectrical Remarks	Cold Water Size Rough In the	the street with the street win the street with the street with the street with the street with	Maste site Nurthing Remarks Direct Maste Runching Remarks	ten kumbei
X X X X	100	0 1 John Boos 1 1 T&S Brass 2 1 John Boos	PB-MSS824-X B-0665-BSTP PBMS2016-6	Wall Shelf w/ Mop Rack, 8"x24" Service Sink Faucet Mop Sink	Mount @ 72" AFF to Shelf w/ Back & Left 24"h Splashes				1/2" 33" 1/2" 3		" O"	100
X	103 104	7,2110	SPARENUMB H9320-51	Spare Number Water Filter System, Single					1/2" 72"		Outlet to Ice Maker #106	103 104
X	10!	5 1 Hoshizaki 6 1 Hoshizaki	B-300SF KM-660MAJ	Ice Bin, 300lb, 22" Ice Maker, 650 lb		X 115	1 15.2	72" Provide Shutoff @ Unit	1/2" FILT	1"	PVC to Floor Sink PVC to Floor Sink	105 106
X	107	<u> </u>	TBD ST6R5-24120SSK-X	80 gal Water Heater, Electric Work Table, 24"x120"	w/ (2) Drawers	X 208	3 TBD	66" Engineer to Provide Spec	3/4" 66"	1"	Copper to Floor Sink	107
X	10'	9 1 John Boos	PTS26K-24120	Double Pass-Thru Shelf, 24"x120"	Mount on 52"h Wall				1/2" 21" 1/2" 3	1" 1 1	/2" 19"	109
X	11	0 1 John Boos 1 1 Quantum	PBHS-W-0909-P-SSLR-X _GY	Hand Sink w/ L&R Side Splashes Pot/Pan Shelving Unit	Mount @ 34" AFF to Top of Sink Bowl See Written Specs for Configuration				1/2" 21" 1/2" 2	.1 1	/2" 18"	111
X	112		SPARENUMB M3R24-1-N	Spare Number 1 Door Refrigerator		X 115	1 2.5 1/-					112
X X	114	4 1 Metro 5 1 John Boos	C519-HFC-U ST6R5-3030SSK-X	Hot Food Holding Cabinet Work Table, 30"x30"		X 120	1 16	48"				114
X	116	6 1 John Boos	EWS8-1648-X EWS8-1248-X	Wall Shelf, 16"x48" Wall Shelf, 12"x48"	Mount @ 60" AFF to Shelf Mount @ 75" AFF to Shelf							116 117
X	118		SDT6-S60SBK-R B-0133-B	Soiled Dishtable, 60"					1/2" 21" 1/2" 2	1 1/2"	ABS to Floor Sink	118
X	120	0 1 Jackson WWS	DYNASTAR VENTLESS (VER	Pre-Rinse Faucet R) Dishwasher, Door Type, Ventless		X 208	3 42.2 1	66"	1/2" 21" 1/2" 2 1/2" 66"	1 1/2"	Copper to Floor Sink	120
X	200	1 1 John Boos 0 2 Turbo Air	CDT6-S36SBK-L TST-60SD-24-N	Clean Dishtable, 36" Sandwich Prep Table, 60" Mega Top	Modify 48" Stock Table to 42"l	X 115	1 8.9 1/	5 24"				200
X	202	1 John Boos2 2 Imperial	ST6R5-3036SSK-X IFS-50-E	Work Table, 30"x36" Fryer, 50lb, Electric		X 208	3 43	18" Provide Shutoff @ Unit				201
X	203		5124CF TCBE-72SDR-N	Charbroiler, 24", Electric Refrigerated Equipment Stand, 72"		X 208 X 115	3 21.8 1 5.6 1/-	36" Provide Shutoff @ Unit				203
X	205	5 1 Imperial	ISB-36-E	Salamander Broiler, 36" Electric	Mount @ 54" to Bottom of Unit	X 208	3 22	78" Horizontal Mount Box				205
X	200	7 1 Imperial	ITG-48-E IR-6-E-C	Griddle, 48" Electric 6 Burner Range, Electric		X 240 X 208	3 50 3 47	36" Provide Shutoff @ Unit 36" Provide Shutoff @ Unit				207
X	208	8 1 John Boos 9 1 T&S Brass	PBHS-W-0909-P-SSLR-X B-0227	Hand Sink w/ L&R Side Splashes Deck Mount Faucet, 4"x8"	Mount @ 34" AFF to Top of Sink Bowl				1/2" 21" 1/2" 2 1/2" 18" 1/2" 1		/2" 18"	208
X X	210	0 1 T&S Brass 1 1 John Boos	B-3950 ST6R5-30120SSK	Twist Waste Valve Work Table, 30"x120" w/ Prep Sink	See Written Specs for Configuration					1 1/2"	ABS to Floor Sink	210
X	212	2 1 John Boos 3 1 John Boos	EWS8-1660-X EWS8-1260-X	Wall Shelf, 16"x60" Wall Shelf, 12"x60"	Mount @ 60" AFF to Shelf Mount @ 75" AFF to Shelf							212
X	21	4 1 Turbo Air	M3F47-2-N	2 Door Freezer		X 115	1 6.3 2/	3 48"				214
X	219	 	BHS1696PR 3B184-2D18-X	Wall Shelf w/ Pot Rack, 16"x96" 3 Comp Sink, 18"x18" Bowls	Mount @ 72" AFF to Shelf							216
X	217	7 1 T&S Brass 8 3 T&S Brass	B-0231 B-3950	Wall Mount Faucet Twist Waste Valve					1/2" 18" 1/2" 1	1 1/2"	ABS to Floor Sink	217 218
X	219	9 AZRC 0 1 John Boos	SPARENUMB PBHS-W-0909-P-SSLR-X	Spare Number Hand Sink w/ L&R Side Splashes	See Written Specs for Configuration Mount @ 34" AFF to Top of Sink Bowl				1/2" 21" 1/2" 2	1" 11	/2" 18"	219
X	300	0 1 AmeriKooler	1COMPBOX PT0097MBNAMSA	1 Compartment Walk in Cooler Self Contained Refrigeration Package		X 115 X 6-20R 208	1 10 1 14.5	120" Light Connection @ Box 120"				300
X	302	2 1 Quantum	_GY	Walk In Cooler Shelving Unit	See Written Specs for Configuration		1 20	24"				302
X	 	1 1 Hatco	F2GB-22-A F2G-22-A	Food Locker, Hot Food Holding Food Locker, Cold Food Holding	Stacked on Bottom of #401 Stacked on Top of #400	X 5-15P 115 X 5-15P 115	1 3.8	48"				401
X	B B		5412ESX-2	Fire Suppression System Type Exhaust Hood, 13'-0"	Mount @ 90" to Center of Box	X 115		120"				AB
X X	C	1 Captive Aire 1 Captive Aire	EA-USBI24DD-RM DCV-1011	Utility Set Exhaust Fan Electrical Control Panel	Mount @ 48" to Center of Box	X 460 X 460		/2 RT Provide Shutoff @ Unit 48"				C E
X		1 2 PSS 2 1 PSS	5"WALLCAPFULLHT 5"WALLCAP52	Wall Cap, 1 1/2"x5"x102"h Wall Cap, 1 1/2"x5"x52"h	Mount Above Coved Base Mount Above Coved Base							SS1 SS2 SS3 SS3
X	SS	3 1 PSS	5"WALLCAP62	Wall Cap, 1 1/2"x5"x62"h	Mount Above Pony Wall							SS3

GEORGE OLIVER
4250 DRINKWATER BLVD #300
SCOTTSDALE, ARIZONA 85251





<u>LEGEND - PLUMBING CONNECTIONS</u>

UNTREATED COLD WATER STUB OUT

REVERSE OSMOSIS COLD WATER STUB OUT

SOFTENED HOT WATER STUB OUT

HOT/COLD WATER CONNECTION POINT TO BE INSTALLED BY PLUMBING CONTRACTOR

G-GAS STUB OUT AT WALL

GAS CONNECTION POINT

DIRECT DRAIN STUB OUT

DRAIN CONNECTION POINT PVC OR COPPER (AS REQUIRED) TO FLOOR SINK TO BE INSTALLED BY PLUMBING CONTRACTOR

FLOOR SINK, NEW

FLOOR SINK, EXISTING

FLOOR DRAIN, 4"

BACKFLOW PREVENTER LOCATION

SODA CONDUIT STUB OUT (UNDERGROUND)

SODA LINES (OVERHEAD)

BEER CONDUIT STUB OUT (UNDERGROUND)

PLUMBING SCOPE OF WORK - WATER

KEC TO PROVIDE:

ALL FAUCETS, AS REFLECTED ON EQUIPMENT SCHEDULE, WATER CONNECTION FROM ICE MACHINE FILTER TO ICE MACHINE.

PLUMBING CONTRACTOR TO PROVIDE:

INSTALLATION OF ALL FIXTURES PROVIDED BY KEC,

FINAL WATER CONNECTIONS FOR ALL EQUIPMENT REQUIRED, CONNECTION FROM STUB OUT TO ANY WATER FILTER,

½" SHUT OFF VALVE FROM STUB OUT TO ALL WATER FILTERS REFLECTED ON THIS PLAN,

NECESSARY BACK FLOW EQUIPMENT AT SODA EQUIPMENT, ICE MACHINE, OR ANY OTHER DIRECT WATER CONNECTION AS REQUIRED PER CODE,

PRESSURE REGULATOR FOR PROPER INSTALLATION OF DISH MACHINE AS REQUIRED BY MANUFACTURER.

VENDOR TRADES:

FINAL CONNECTION FROM FILTER TO PROVIDED EQUIPMENT.

PLUMBING SCOPE OF WORK - DRAINS

KEC TO PROVIDE:

- ALL TWIST WASTE VALVES & BASKET DRAINS, AS REFLECTED ON EQUIPMENT SCHEDULE,
- INSTALLATION OF PVC DRAINS FOR ICE MACHINE AND ICE BIN WITH NECESSARY AIR VENT AS PER CODE, PIPE CONDENSATE DRAIN FOR WALK IN COOLER WITH 3/4" COPPER TUBING, WITH NECESSARY "P" TRAPS AS
- PIPE CONDENSATE DRAIN FOR WALK IN FREEZER WITH 3/4" COPPER TUBING, WITH NECESSARY "P" TRAPS AS PER CODE, PROVIDE INSULATION AND HEAT TAPE IN ALL FREEZER AREAS.

PLUMBING CONTRACTOR TO PROVIDE:

- RIGID DRAIN LINES FOR ALL DIRECT & INDIRECT WASTE. COPPER REQUIRED FOR HOT WATER DRAIN APPLICATIONS/PVC FOR COLD, SEE PLUMBING SCHEDULE NOTES,
- MINIMIUM 1 ½" AIR GAP ABOVE FLOOR SINK FOR ALL INDIRECT WASTE PER CODE, ANCHOR ALL INDIRECT PIPING MINIMUM 6" ABOVE FLOOR WITH UNI-STRUT AND STRAPS FOR CLEAN FINISH.

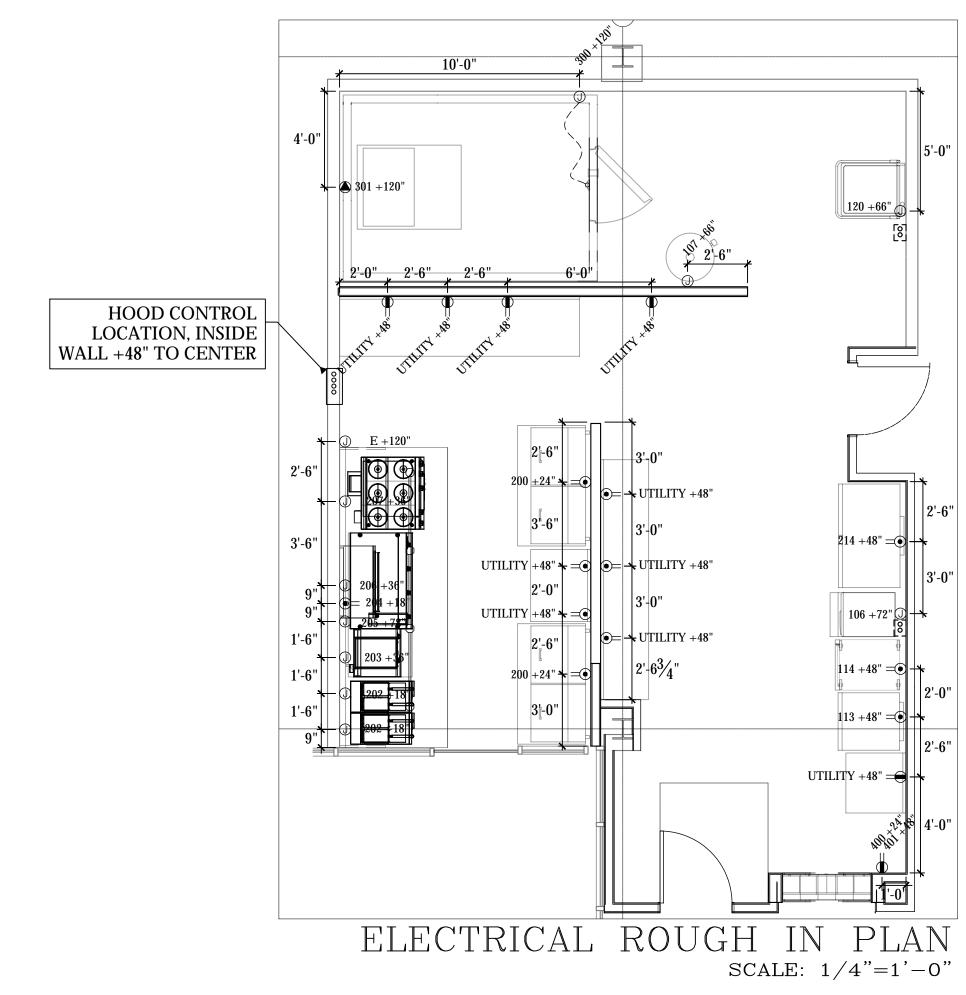
PLUMBIN

Drawn by:

Checked by: 9/5/2023

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ELECTRICAL SCOPE OF WORK

2) RUN CONDENSER POWER FROM BACK OF ICE MACHINE TO ROOFTOP WITH

3) MOUNT WATERPROOF JBOX TO ICE MACHINE CONDENSER - PROVIDE SHUT OFF

SWITCH WITHIN 6 FEET PER CODE - INCOMING POWER FROM ICE MACHINE TO

4) PROVIDE DIRECT SHUNT TRIP BREAKER FOR WALK IN FREEZER DOOR HEAT STRIP

5) PROVIDE DISCONNECT SWITCH FOR EACH WALK IN CONDENSER WITHIN 6 FEET PER

6) WIRE EXHAUST FANS, MAKE UP AIR UNITS AND ALL DESIGNATED OUTLETS UNDER

HOOD SYSTEMS INTO ELECTRICAL CONTROL PANEL (KEC PROVIDED).

DIRECT CONNECTIONS REQUIRED ARE TO BE WATERTIGHT CONDUIT

PROVIDE GFI OUTLETS IN ALL AREAS OF THE KITCHEN,

(BY KEC/WALK IN MANUFACTURER) AND DRAIN LINE HEATER (BY KEC) - WIRE TIME

ELECTRICAL CONTRACTOR NOTES:

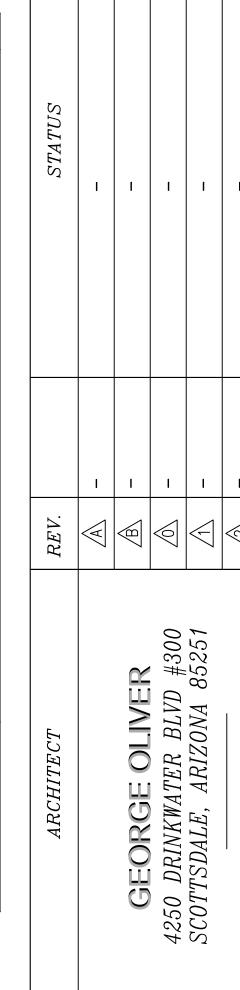
REFRIGERATION LINES,

ROOFTOP LOCATION,

GENERAL NOTES:

CLOCK IF SHIPPED LOOSE,

1) ALL DIMENSIONS ARE TO CENTER OF OUTLET BOX.





KITCHEN AL

|Drawn by:

Checked by:

9/5/2023 Sheet Number:

<u>LEGEND - ELECTRICAL CONNECTIONS</u>

DUPLEX RECEPT. W/ GFI, 20-AMP, 120-VOLT, GROUND TYPE, VERTICAL MOUNT

SPECIAL PURPOSE OUTLET, 208/240-VOLT AS INDICATED, GROUND TYPE, VERTICAL MOUNT

JUNCTION BOX FOR DIRECT CONNECTION

STUB OUT FOR UNDERGROUND CONDUIT

REMOTE CONDENSER ELECTRICAL CONNECTION OUTGOING FROM KITCHEN TO ROOFTOP

MANUAL DISCONNECT SWITCH, WATERTIGHT

DUPLEX RECEPT., 15-AMP, 120-VOLT, GROUND TYPE, VERTICAL MOUNT

DUPLEX RECEPT., 20-AMP, 120-VOLT, GROUND TYPE, VERTICAL MOUNT

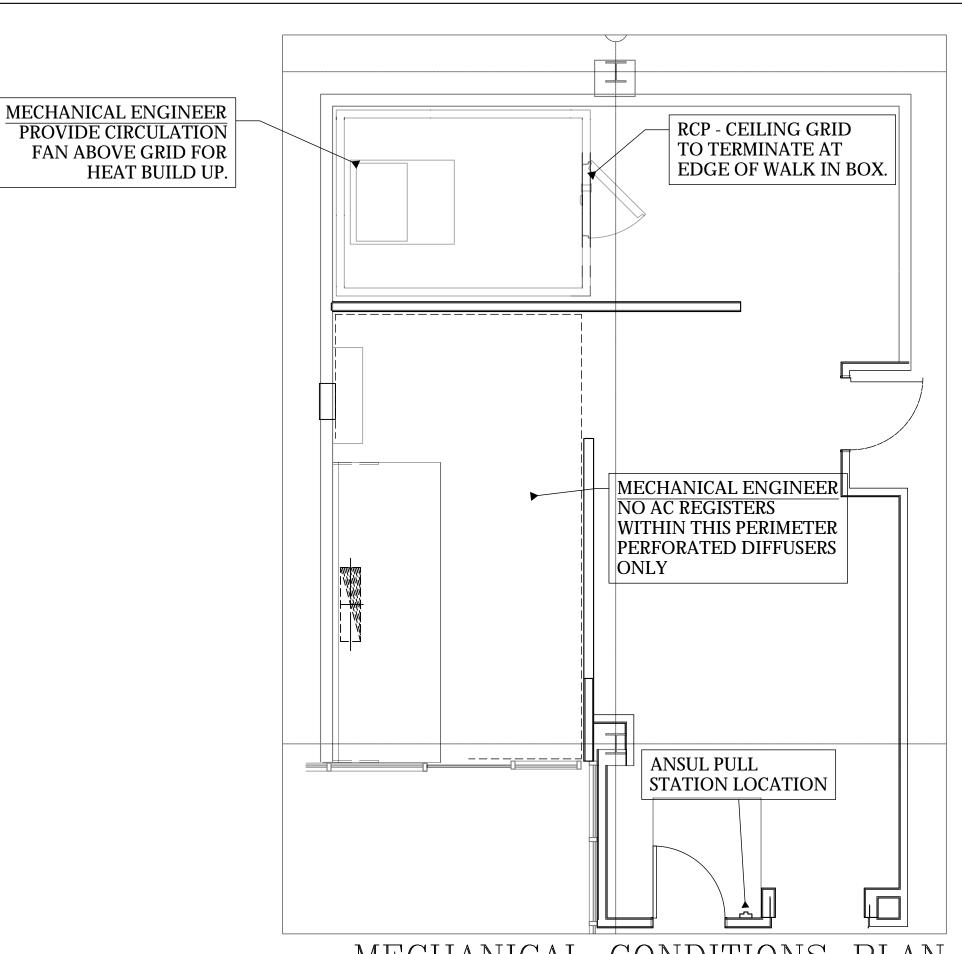
SIMPLEX RECEPT., 20-AMP, 120-VOLT, GROUND TYPE, VERTICAL MOUNT

NEMA CONFIG. AS INDICATED, ON EQUIP. SCHEDULE

FIELD WIRING, EXPOSED RIGID WATERTIGHT CONDUIT

S BASIC SWITCH, WATERTIGHT

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KEC TO PROVIDE:

FLASHING,

WITH PVC CHASE,

"GOOSENECK".

BY KEC.

GREASE DUCT/FIREWRAP & INSTALLATION,

ANSUL SYSTEM PIPING, TANKS, PERMIT, INSTALLATION & FINAL

LOCATIONS FOR ROOF PENETRATIONS FOR REMOTE CONDENSERS

CONDENSER CURBS SHOULD THEY BE REQUIRED OVER 4"X4" WOOD

HANGING OF HOOD BOXES & INSTALLATION OF S/S WALL

PERFORMANCE CHECK OF SYSTEM AFTER HVAC START UP,

PRESSURE TREATED 4"X4" WOOD FOR SETTING OF REMOTE

MOUNTING OF ELECTRICAL CONTROLS (IF NECESSARY), ALL FINAL ELECTRICAL & PLUMBING CONNECTIONS,

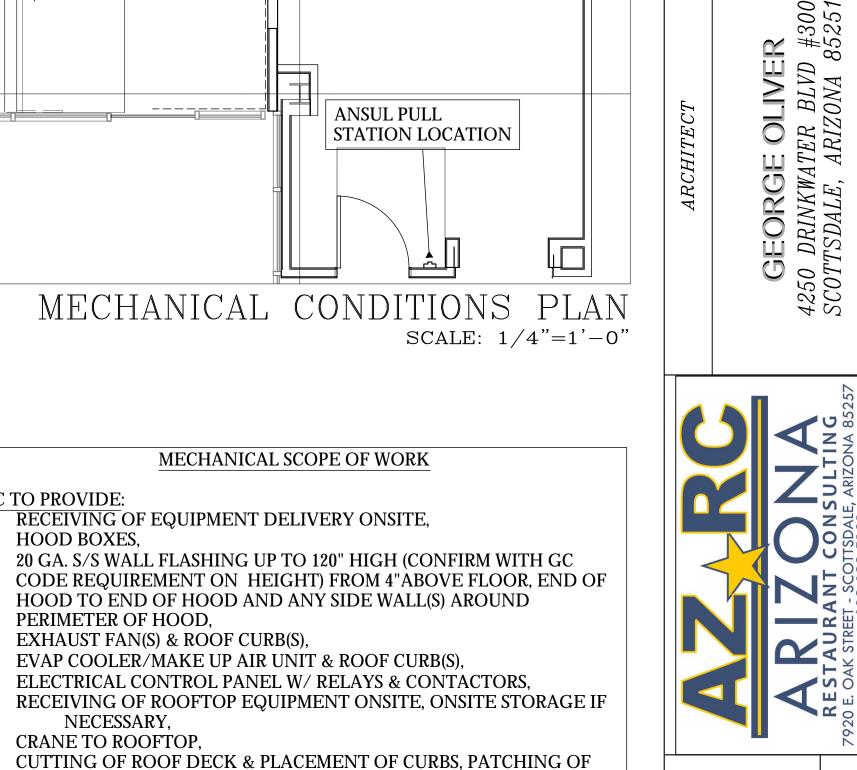
CUTTING AND SEAL ROOF PENETRATIONS FOR REMOTE CONDENSER LINE CHASE - KEC PROVIDED ALUMNIMUM

MUA/AC DUCT & INSTALLATION

CONDENSERS WHEN NECESSARY.

GC/MECHANICAL CONTRACTOR TO PROVIDE:

START UP AND BALANCE OF HOOD WITH AC,

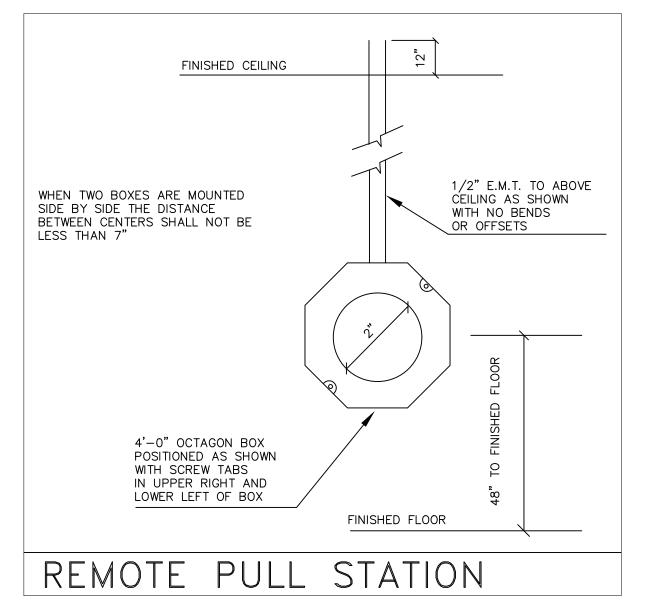


ROUGH MECHANICAL

Drawn by: JBM

Checked by:

9/5/2023 Sheet Number:



<u>LEGEND - MECHANICAL CONNECTIONS</u>

NOT ALL SYMBOLS MAY BE USED FIRE SUPPRESSION PULL SWITCH, OCTAGON BOX TO BE SET INSIDE WALL WITH CONCEALED

REMOTE CONDENSER LINE SET OUTGOING/INCOMING FROM KITCHEN TO ROOFTOP.

FLU EXHAUST CONNECTION POINT FOR WATER HEATER, INSTALLED BY PLUMBER

(*) | FIRE SUPPRESSION SYSTEM TANKS & CONTROLS

MAKE UP AIR DUCT RISER

CONDUIT.

GREASE DUCT RISER

AC DUCT RISER

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HOOL) INF	ORMATION		605596	7														
			.,		MAX			DECION					UST PL					HOOD (CONFIG
HOOD	TAG	MODEL M	ANUFACTURE	RIFNGTH	COOKING	TYPE	APPLIANCE	DESIGN	TOTAL			, t	RISER(S	5)			HOOD	END TO	
NO	17.0	INODEL IVI			TEMP	'''	DUTY	CFM/FT	EXH CFM	WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	CONSTRUCTION	END	ROW
1		5412	ECON-AIR	13'0"	600	ı	HEAVY	300	3900	10"	37"	4"		3900	1519	-1.070 "	430 SS	ALONE	AL ONE
		ESX-2	LCON-AIN	15 0	DEG	I	IILAVI	300	3300	10	57	4		3900	1516	-1.070	WHERE EXPOSED	ALONE	ALONE

<u>HOOD INFORMATION</u> LIGHT(S) WIRE SYSTEM HANGING EFFICIENCY @ 7 QTY HEIGHT LENGTH TYPE TYPE LOCATION SIZE GUARD SIZE MODEL # QUANTITY MICRONS PIPING | WEIGHT 517 LBS 20" NO NO 16" CAPTRATE SOLO FILTER 85% SEE FILTER SPEC L55 SERIES E26

HOOL	OP7	$^{\prime\prime}IONS$
HOOD NO	TAG	OPTION
		FIELD WRAPPER 6.00" HIGH FRONT, RIGHT.
		BACKSPLASH 100.00" HIGH X 178.00" LONG 430 SS VERTICAL.
		LEFT SIDESPLASH 100.00" HIGH X 54.00" LONG 430 SS VERTICAL.
1		RIGHT SIDESPLASH 100.00" HIGH X 38.00" LONG 430 SS VERTICAL.
'		LEFT END STANDOFF(FIN/SLP) 1" WIDE 54" LONG INSULATED.
		STRUCTURAL FRONT PANEL.
		RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 68" HIGH INSULATED 430 SS.

FOR QUESTIONS, CONTACT THE Arizona Office REGION 93 PHONE: (480) 926-6810 EMAIL: reg93@captiveaire.com

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

GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMÚM) 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

HVAC DISTRIBUTION NOTE IT IS RECOMMENDED NOT TO INSTALL HIGH

PATENT NUMBERS

VELOCITY DIFFUSERS OR HVAC RETURNS WITHIN TEN (10) FEET OF THE EXHAUST HOOD. PERFORÀTÉD DIFFUSERS ARE RECOMMENDED.

VERIFY CEILING HEIGHT

CAPTIVEAIRE SYSTEMS RECOMMENDS THE USE OF

LISTED, PRE-FABRICATED ROUND GREASE

EXHAUST DUCT TO REDUCE STATIC PRESSURE IN

THE SYSTEM, MINIMIZE INSTALLATION AND

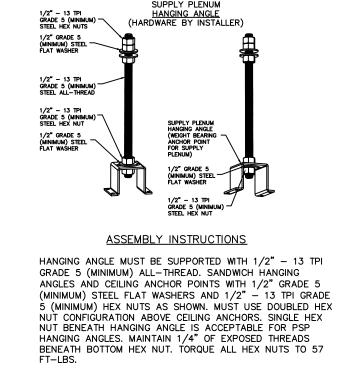
INSPECTION TIMES, AND ENSURE DUCT IS LIQUID

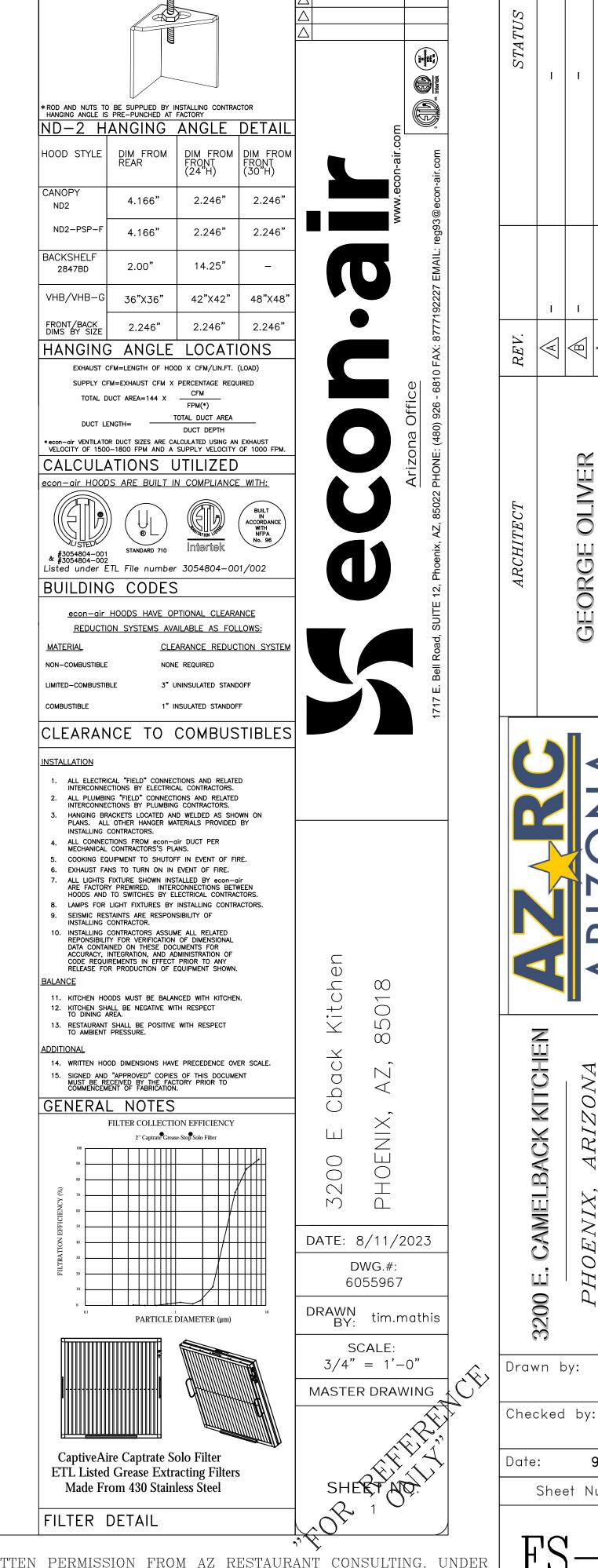
TIGHT

HEIGHT REQUIRED TO VERIFY THAT HOOD FITS SPACE AND TO SIZE THE ENCLOSURE PANELS

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted Approved with NO Exception Taken SIGNATURE





1/2" DIA. HEAVY DUTY NUT

HANGING ANGLE

ONE ABOVE AND ONE BELOW

1/2" DIA. ALL THREAD ROD

CONNECTED TO ROOF JOIST

THROUGH ANOTHER HANGING

REVISIONS

DESCRIPTION DATE:

GEORGE OLIVER
4250 DRINKWATER BLVD #300
SCOTTSDALE, ARIZONA 85251

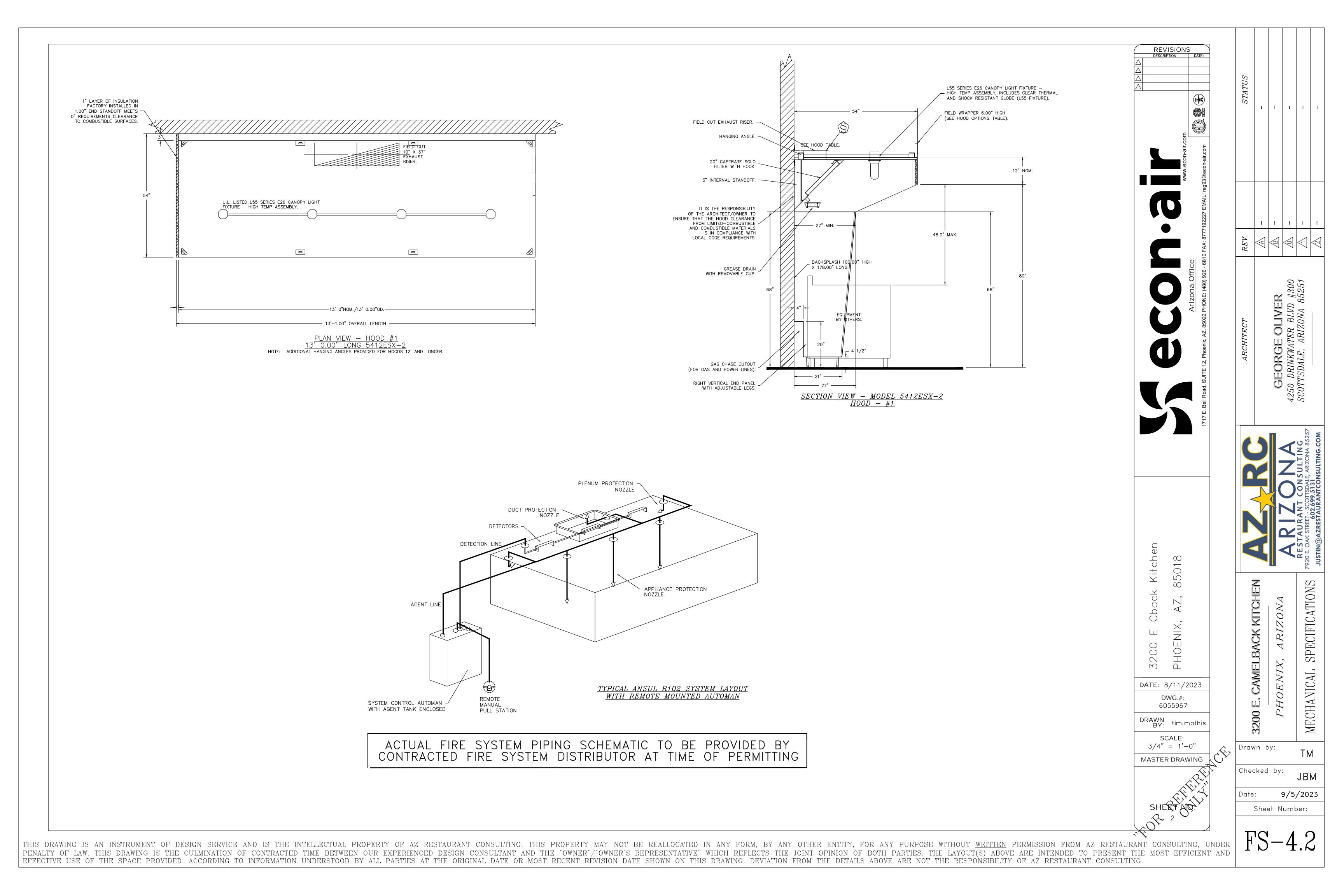
SPECIFICATION

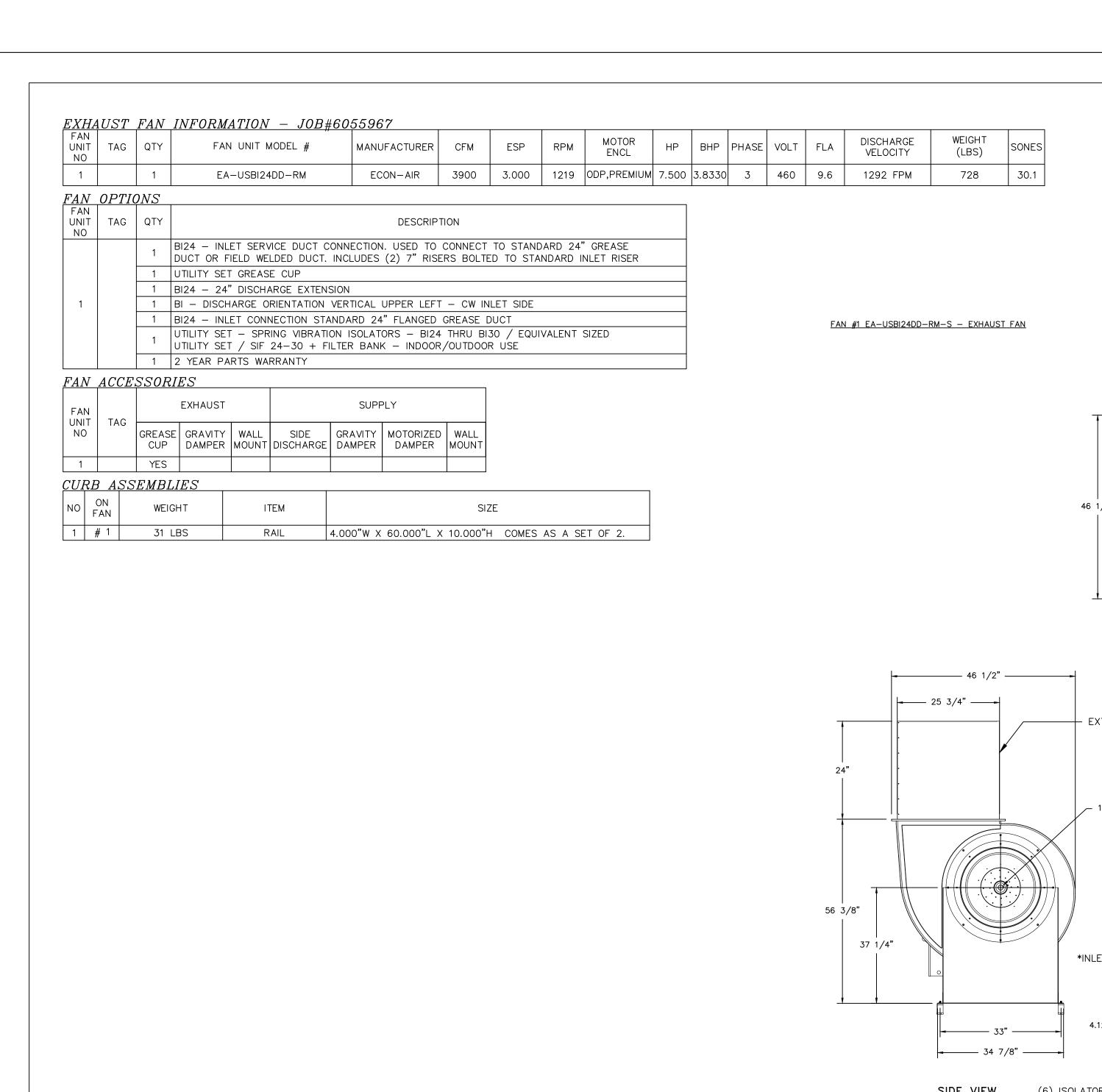
MECHANICAL

9/5/2023

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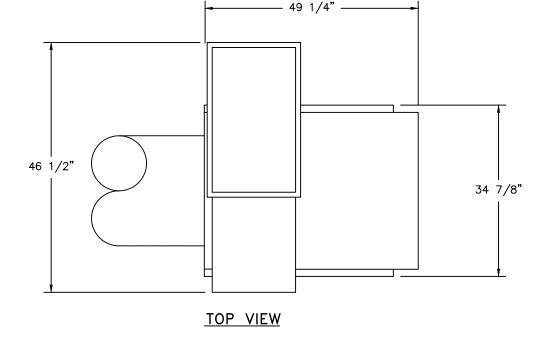
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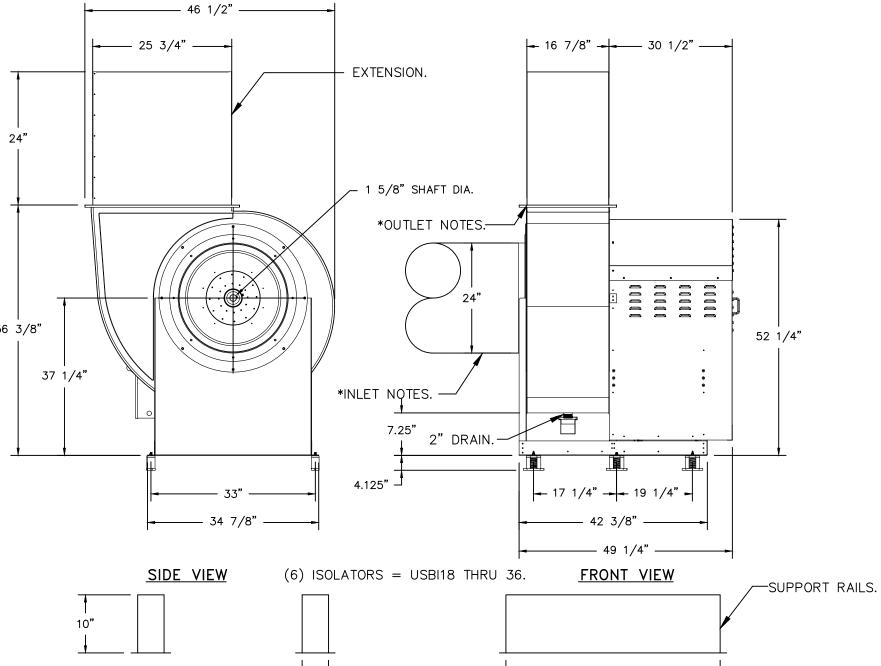




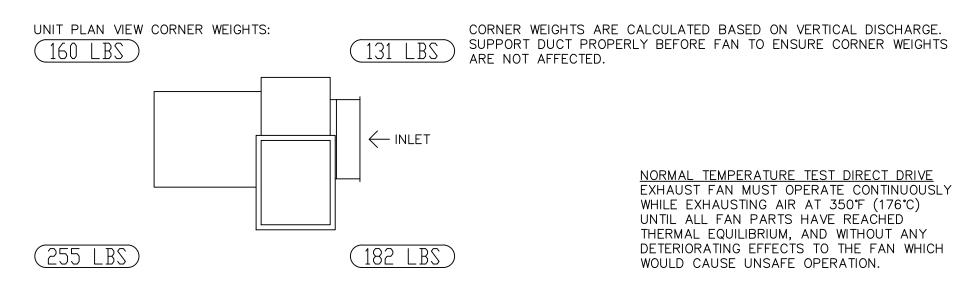
VERIFY PITCH CURB

Curb Pitch Required in order to manufacture the curb to specification.





* 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.



FEATURES:

- ROOF MOUNTED FANS.
- UL705. - UL762 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 2".

- BI24 - 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. - UTILITY SET GREASE CUP. - BI24 - 24" DISCHARGE EXTENSION.

- BI24 - Z4 DISCHARGE EXTENSION.
- BI - DISCHARGE ORIENTATION VERTICAL
UPPER LEFT - CW INLET SIDE.
- BI24 - INLET CONNECTION STANDARD 24" FLANGED GREASE DUCT.

- 2 YEAR PARTS WARRANTY.

- UTILITY SET - SPRING VIBRATION ISOLATORS - BI24 THRU BI30 / EQUIVALENT SIZED UTILITY SET / SIF 24-30 + FILTER BANK - INDOÓR/OUTDOOR

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DRAWN BY:

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DATE: 8/11/2023

DWG.#: 6055967

SCALE:

3/4" = 1'-0"

MASTER DRAWING

tim.mathis

REVISIONS DESCRIPTION



GEORGE OLIVER
4250 DRINKWATER BLVD #300
SCOTTSDALE, ARIZONA 85251

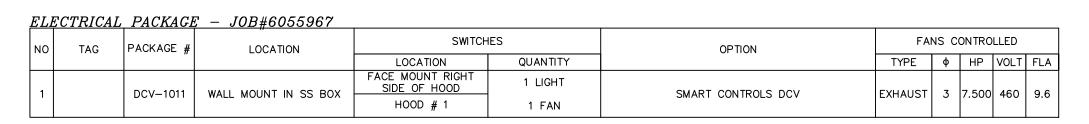
SPECIFICATION MECHANICAL

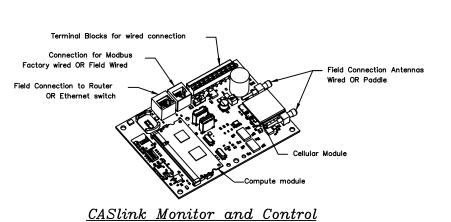
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Hood control panel to support communications to cloud-based Building Management System.

- Hood Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list.

- Hood Control Panel to allow cloud-based Building Management System to control parameters outlined as CONTROL in the points list.

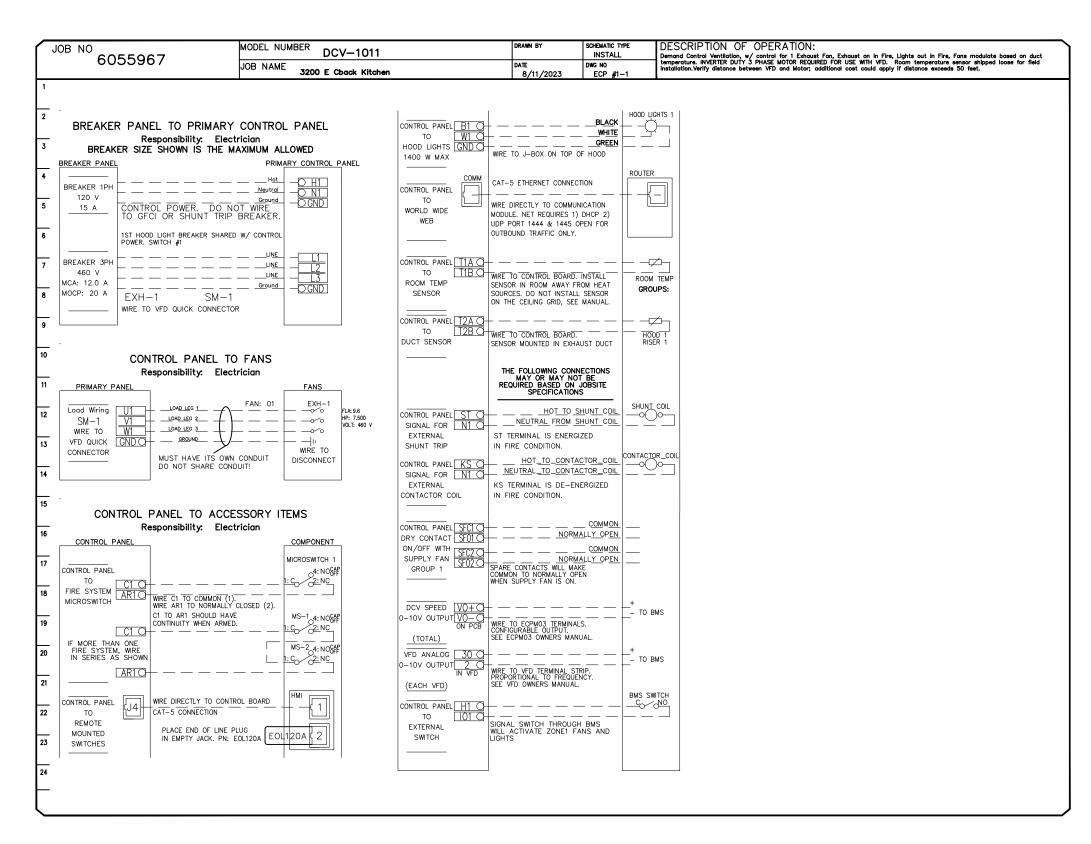
- Hood Control Panel to allow cloud-based Building Management System to implement SYSTEM ECONOMIZER control strategies for fully integrated Building

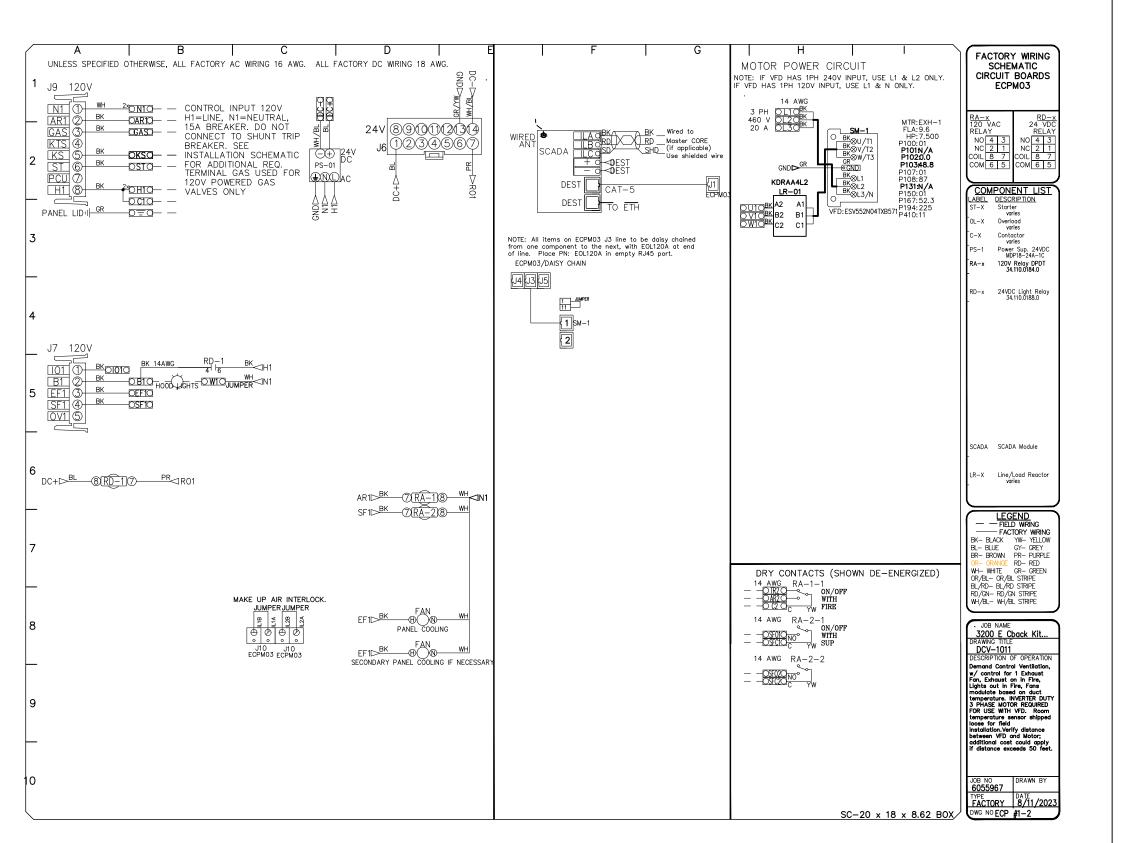
MONITORING AND CONTROL POINTS LIST

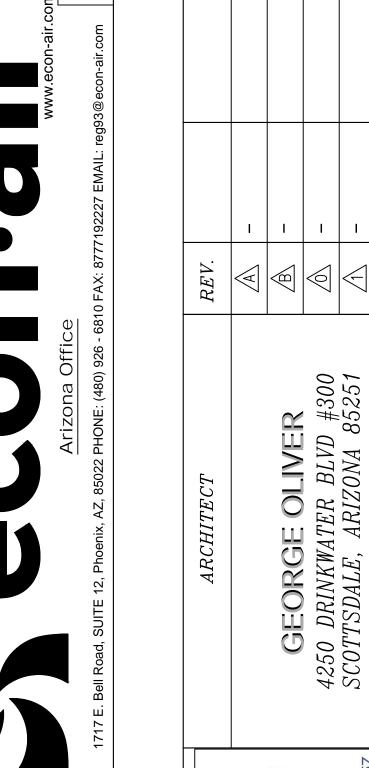
OCV Packages	Function	SC Packages	Function
Room Temperature	MONITOR	Room Temperature(s)	MONITOR
Duct Temperature(s)	MONITOR	Duct Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR	MUA Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR	Kitchen RTU Discharge Temperature	MONITOR
Fan Speed	MONITOR	Controller Faults	MONITOR
Fan Amperage	MONITOR	Fan Faults	MONITOR
Fan Power	MONITOR	Fan Status	MONITOR
VFD Faults	MONITOR	PCU Faults	MONITOR
Controller Faults	MONITOR	PCU Filter Clog Percentages	MONITOR
Fan Faults	MONITOR	Fire Condition	MONITOR
Fan Status	MONITOR	CORE Fire System	MONITOR
PCU Faults	MONITOR	Building Pressures	MONITOR
PCU Filter Clog Percentages	MONITOR	Fans Button(s)	MONITOR & COL
Fire Condition	MONITOR	Lights Button(s)	MONITOR & CO
CORE Fire System	MONITOR	Wash Button	MONITOR & CO
Building Pressures	MONITOR		
Prep Time Button	MONITOR & CONTROL		
Fans Button	MONITOR & CONTROL		
Lights Button	MONITOR & CONTROL		

MONITOR & CONTROL

Wash Button







REVISIONS

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DATE: 8/11/2023

DWG.#:

6055967

SCALE:

3/4" = 1'-0"

MASTER DRAWING

tim.mathis

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SPECIFICATION RI

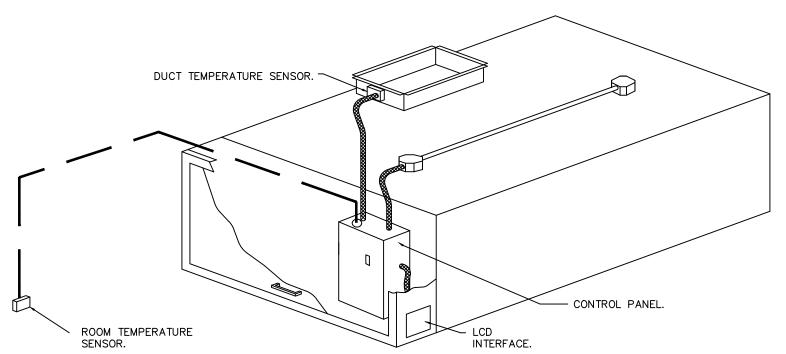
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DEMAND CONTROL VENTILATION HOOD CONTROL PANEL SPECIFICATIONS: CONTROLS SHALL BE LISTED BY ETL (UL 508A) AND SHALL COMPLY WITH DEMAND VENTILATION SYSTEM TURNDOWN REQUIREMENTS OUTLINED IN IECC 403.7.5 (2021).

- THE CONTROL ENCLOSURE SHALL BE NEMA 1 RATED AND LISTED FOR INSTALLATION INSIDE OF THE EXHAUST HOOD UTILITY CABINET. THE CONTROL ENCLOSURE MAY BE CONSTRUCTED OF STAINLESS STEEL OR PAINTED STEEL.
- TEMPERATURE PROBE(S) LOCATED IN THE EXHAUST DUCT RISER(S) SHALL BE CONSTRUCTED OF STAINLESS STEEL.
- A DIGITAL CONTROLLER SHALL BE PROVIDED TO ACTIVATE THE HOOD EXHAUST FANS DYNAMICALLY BASED ON A FIXED DIFFERENTIAL BETWEEN THE AMBIENT AND DUCT TEMPERATURES SENSORS. THIS FUNCTION SHALL MEET THE REQUIREMENTS OF IMC 507.1.1.
- A DIGITAL CONTROLLER SHALL PROVIDE ADJUSTABLE HYSTERESIS SETTINGS TO PREVENT CYCLING OF THE FANS AFTER THE COOKING APPLIANCES HAVE BEEN TURNED OFF AND/OR THE HEAT IN THE EXHAUST SYSTEM IS REDUCED.
- A DIGITAL CONTROLLER SHALL PROVIDE AN ADJUSTABLE MINIMUM FAN RUN-TIME SETTING TO PREVENT FAN CYCLING.
- VARIABLE FREQUENCY DRIVES (VFDS) SHALL BE PROVIDED FOR FANS AS REQUIRED. THE DIGITAL CONTROLLER SHALL MODULATE THE VFDS BETWEEN A MINIMUM SETPOINT AND A MAXIMUM SETPOINT ON DEMAND. THE DUCT TEMPERATURE SENSOR INPUT(S) TO THE DIGITAL CONTROLLER SHALL BE USED TO CALCULATE THE SPEED REFERENCE SIGNAL.
- THE VFD SPEED RANGE OF OPERATION SHALL BE FROM 0% TO 100% FOR THE SYSTEM, WITH THE ACTUAL MINIMUM SPEED SET AS REQUIRED TO MEET MINIMUM VENTILATION REQUIREMENTS.
- AN INTERNAL ALGORITHM TO THE DIGITAL CONTROLLER SHALL MODULATE SUPPLY FAN VFD SPEED PROPORTIONAL TO ALL EXHAUST FANS THAT ARE LOCATED IN THE SAME FAN GROUP AS THE SUPPLY FAN.
- THE SYSTEM SHALL OPERATE IN PREP MODE DURING LIGHT COOKING LOAD OR COOL DOWN MODE WHEN SUFFICIENT HEAT REMAINS UNDERNEATH THE HOOD SYSTEM AFTER COOKING OPERATIONS HAVE COMPLETED. OPERATION DURING EITHER OF THESE PERIODS WILL DISABLE THE SUPPLY FANS AND PROVIDE AN EXHAUST FAN SPEED THAT IS EQUAL TO THE MINIMUM VENTILATION REQUIREMENT.
- A DIGITAL CONTROLLER SHALL DISABLE THE SUPPLY FAN(S), ACTIVATE THE EXHAUST FAN(S), ACTIVATE THE APPLIANCE SHUNT TRIP, AND DISABLE AN ELECTRIC GAS VALVE AUTOMATICALLY WHEN FIRE CONDITION IS DETECTED ON A COVERED HOOD.
- A DIGITAL CONTROLLER SHALL ALLOW FOR EXTERNAL BMS FAN CONTROL VIA DRY CONTACT (EXTERNAL CONTROL SHALL NOT OVERRIDE FAN OPERATION LOGIC AS REQUIRED BY CODE).
- AN LCD INTERFACE SHALL BE PROVIDED WITH THE FOLLOWING FEATURES: A. ON/OFF PUSH BUTTON FAN & LIGHT SWITCH ACTIVATION.
- B. INTEGRATED GAS VALVE RESET FOR ELECTRONIC GAS VALVES (NO RESET RELAY REQUIRED).
- C. VFD FAULT DISPLAY WITH AUDIBLE & VISUAL ALARM NOTIFICATION. DUCT TEMPERATURE SENSOR FAILURE DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
- MIS-WIRED DUCT TEMPERATURE SENSOR DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
- F. A SINGLE LOW VOLTAGE CAT-5 RJ45 WIRING CONNECTION. G. AN ENERGY SAVINGS INDICATOR THAT UTILIZES MEASURED KWH FROM THE VFDS.

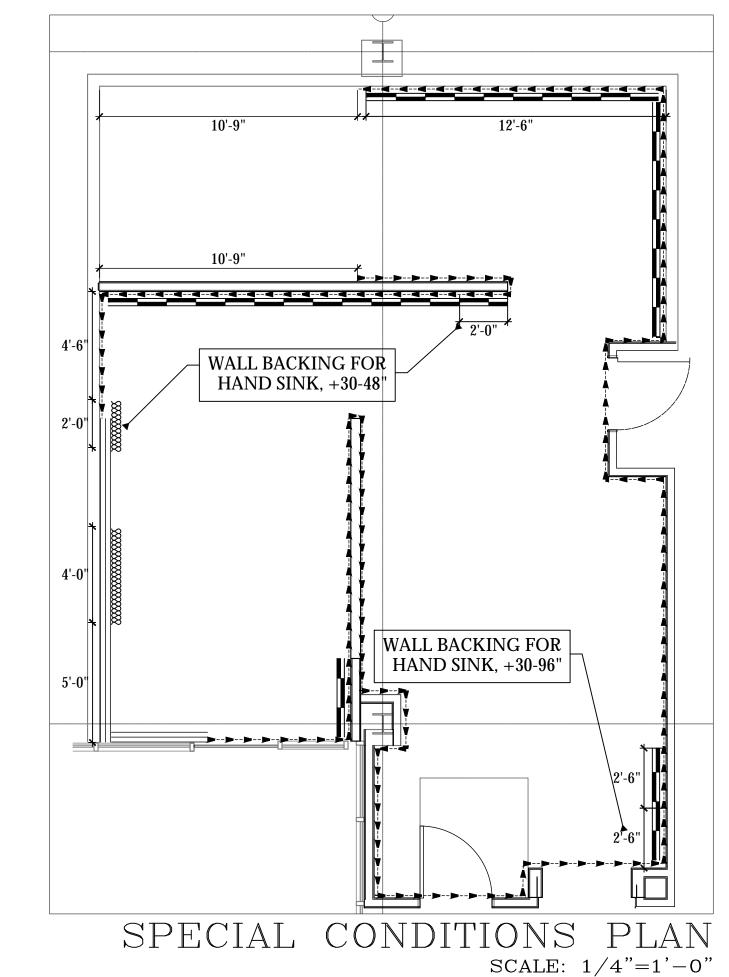


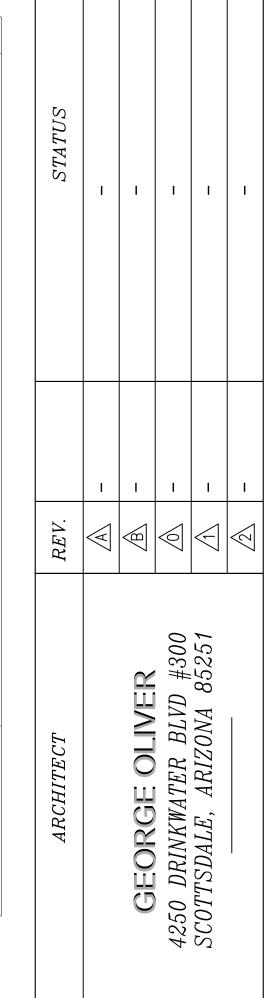
TYPICAL HOOD CONTROL PANEL INSTALLATION

<u>SEQUENCE OF OPERATIONS</u> THE HOOD CONTROL PANEL IS CAPABLE OF OPERATING IN ONE OR MORE OF THE FOLLOWING STATES AT ANY GIVEN TIME:

- <u>AUTOMATIC:</u> THE SYSTEM OPERATES BASED ON THE DIFFERENTIAL BETWEEN ROOM TEMPERATURE AND THE TEMPERATURE AT THE HOOD CAVITY OR EXHAUST DUCT COLLAR. FANS ACTIVATE AT A CONFIGURABLE TEMPERATURE DIFFERENTIAL THRESHOLD. DEPENDING ON THE JOB CONFIGURATION EACH FAN ZONE CAN BE CONFIGURED AS STATIC OR DYNAMIC. THESE TERMS REFER TO WHETHER A VARIABLE MOTOR (SUCH AS EC MOTORS OR VFD DRIVEN MOTORS) MODULATE WITH TEMPERATURE. IF THE PANEL IS EQUIPPED WITH VARIABLE SPEED FANS AND THE ZONE IS DEFINED AS "DYNAMIC", THESE WILL MODULATE WITHIN A USER-DEFINED RANGE BASED ON THE TEMPERATURE DIFFERENTIAL. PANELS EQUIPPED WITH VARIABLE SPEED FANS AND A FAN ZONE DEFINED AS "STATIC", FANS WILL RUN AT A SET SPEED CALCULATED FOR THE DRIVE. DEMAND CONTROL VENTILATION SYSTEMS ARE CAPABLE OF MODULATING EXHAUST AND MAKE UP AIR FAN SPEEDS PER THE REQUIREMENTS OUTLINED IN IECC 403.7.5 (2021).

- MANUAL: THE SYSTEM OPERATES BASED ON HUMAN INPUT FROM AN HMI.
- SCHEDULE: A WEEKLY SCHEDULE CAN BE SET TO RUN FANS FOR A SPECIFIED PERIOD THROUGHOUT THE DAY. THERE ARE THREE OCCUPIED TIMES PER DAY TO ALLOW FOR THE USER TO SET UP A TIME THAT IS SUITABLE TO THEIR NEEDS. ANY TIME THAT IS WITHIN THE DEFINED OCCUPIED TIME, THE SYSTEM WILL RUN AT MODULATION MODE AND FOLLOW THE FAN PROCEDURE ALGORITHM BASED ON TEMPERATURE DURING THIS TIME. DURING UNOCCUPIED TIME, THE SYSTEM WILL HAVE AN EXTRA OFFSET TO PREVENT UNINTENDED ACTIVATION OF THE SYSTEM DURING A TIME WHERE THE SYSTEM IS NOT BEING OCCUPIED.
- OTHER: THE SYSTEM OPERATES BASED ON THE INPUT FROM AN EXTERNAL SOURCE (DDC, BMS OR HARD-WIRED INTERLOCK).
- FIRE: UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM, THE EXHAUST FAN WILL COME ON OR CONTINUE TO TO RUN, THE HOOD MAKEUP AIR WILL SHUTDOWN, AND A SIGNAL WILL BE SENT FOR ACTIVATING THE SHUNT TRIP BREAKER PROVIDED BY THE ELECTRICIAN. FUEL GAS WILL SHUT OFF VIA A MECHANICAL/ELECTRICAL GAS VALVE ACTUATED BY THE HOOD FIRE SUPPRESSION SYSTEM.







WALL FINISH DETAILS IN FOODSERVICE AREAS
NOT ALL SYMBOLS MAY BE USED

S/S WALL FLASHING, 20 GUAGE W/
JOINING STRIPS @ SEAMS, MOUNT
FROM 6" to 8'-6" AFF. w/ 6" COVED BASE

FRP, WHITE W/ JOINING STRIPS @ SEAMS, MOUNT FROM TOP OF COVED BASE TO CEILING GRID UNLESS OTHERWISE NOTED ON PLAN.

EPOXY PAINT, NSF APPROVED OVER BLOCK CONSTRUCTION AS APPROVED BY HEALTH DEPARTMENT.

WALL BACKING DETAILS IN FOODSERVICE AREAS NOT ALL SYMBOLS MAY BE USED

5%" PLYWOOD WALL BACKING, IN LIEU OF SHEETROCK FROM 4'-0" TO 8'-0" UNLESS OTHERWISE NOTED ON PLAN

NON-COMBUSTIBLE WALL BACKING, TBD BY GC, BEHIND SHEETROCK FROM 4'-0" TO 8'-0" UNLESS OTHERWISE NOTED ON PLAN

3200 E. CAMELBACK KITCHEN

PHOENIX, ARIZONA

SPECIAL CONDITIONS PLAN

Drawn by: JBM

Checked by:

Date: 9/5/2023

Sheet Number:

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4" INSULATION, AK-XPS4 HI-PERFORMANCE PANEL CORE VERIFY ALL INTERIOR AND EXTERIOR DIMENSIONS AND ALLOW A MINIMUM 2" CLEAR (AIR) BETWEEN WALK-IN AND COOLERS R-29, FREEZERS R-32 EXISTING/PROJECTED STRUCTURES. CORE FLAME SPREAD RATING OF 15 BE SURE THE LARGEST PANEL TO BE MANUFACTURED WILL BE HANDLED WITHOUT PROBLEM INSIDE YOUR ROOM SMOKE DEVELOPED OF 165 INSULATION WITH 50 YEAR R-VALUE WARRANTY QUOTE#: PO#: FAX# Cooler HOT. AIR 10,7 GEORGE OLIVER 4250 DRINKWATER BLVD #300 SCOTTSDALE, ARIZONA 85251 NAME: JOB COOLER 90" HIGH 60 WITH FLOOR 7,9 47" 7 A [J : 07/27/2023 NUMBER: - 18517 PAGE: SECTIONAL VIEW Consulting (1) .050 SMOOTH ALUMINUM OVER 1/2" PLYWOOD UNDERLAY
FOR 1200 LB/SQ.FT UNIFORMLY DISTRIBUTED LOAD

(2) 4" INSULATED PANELS.
26 GA. STUCCO EMBOSSED ACRYLUME

(3) COOL AIR FLOW

(4) FRESH AIR Restaurant (5) MIN. 24" CLEARANCE REQUIRED FOR INSTALLATION °C C 0" SPECIFICATION SUSTOMER AZ Resta ALK Drawn by: Checked by: 9/5/2023 Sheet Number:

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