

HOOD INFORMATION - Job#2497308

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	TOTAL EXH. CFM	EXHAUST PLENUM RISER(S)					TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG.	
						WIDTH	LENG.	DIA.	CFM	S.P.			END TO END	ROW
1		4812 SND-2-PSP-F	12' 0.00"	600 Deg.	2820	10"	27"		2820	-0.392"	1889	430 SS 100%	ALONE	ALONE

HOOD INFORMATION

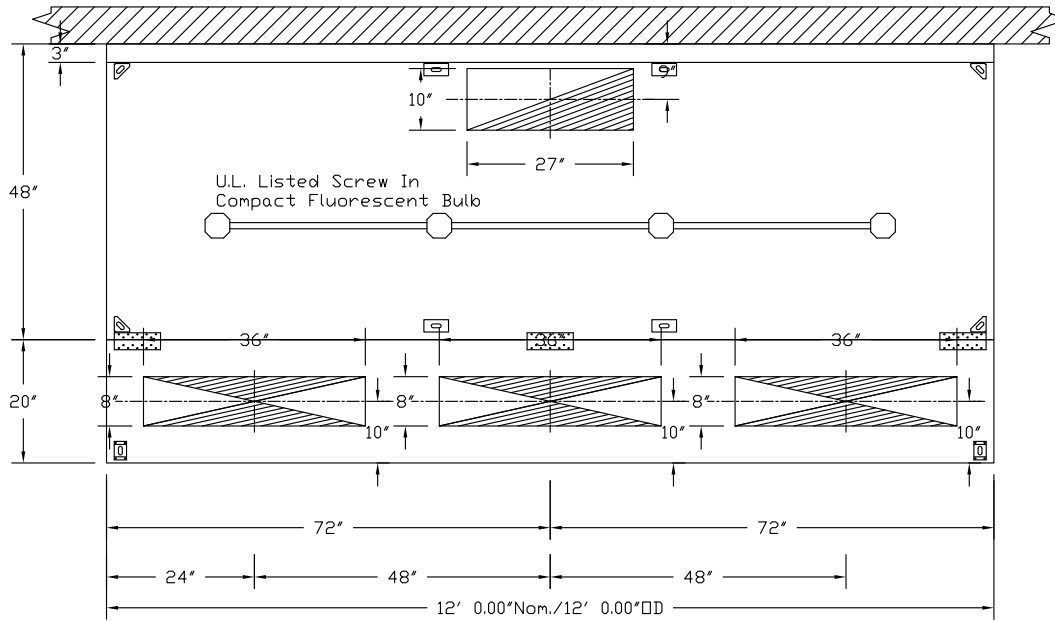
HOOD NO.	TAG	TYPE	FILTER(S)			EFFICIENCY @ 9 MICRONS	QTY.	LIGHT(S)		WIRE GUARD	LOCATION	UTILITY CABINET(S)			FIRE SYSTEM PIPING	HOOD HANGING WGT
			QTY.	HEIGHT	LENGTH			TYPE	TYPE			TYPE	SIZE	MODEL #		
1		SS Baffle with Handles	9	20"	16"	30%	4	Screw In Compact	ND					ND	553 LBS	

HOOD OPTIONS

HOOD NO.	TAG	OPTION
1		LEFT VERTICAL END PANEL 27" Top Width, 21" Bottom Width, 68" High Insulated 4" Legs 430 SS
		RIGHT VERTICAL END PANEL 27" Top Width, 21" Bottom Width, 68" High Insulated 4" Legs 430 SS

PERFORATED SUPPLY PLENUM(S)

HOOD NO.	TAG	POS.	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
							WIDTH	LENG.	DIA.	CFM	S.P.
1		Front	144'	20"	6'	MUA	8"	36"		629	0.177"
						MUA	8"	36"		629	0.177"
						MUA	8"	36"		629	0.177"



PLAN VIEW - Hood #1
 12' 0.00" LONG 4812SND-2-PSP-F
 NOTE: Additional hanging angles provided for hoods 12' and longer.

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

Approved with NO Exception Taken

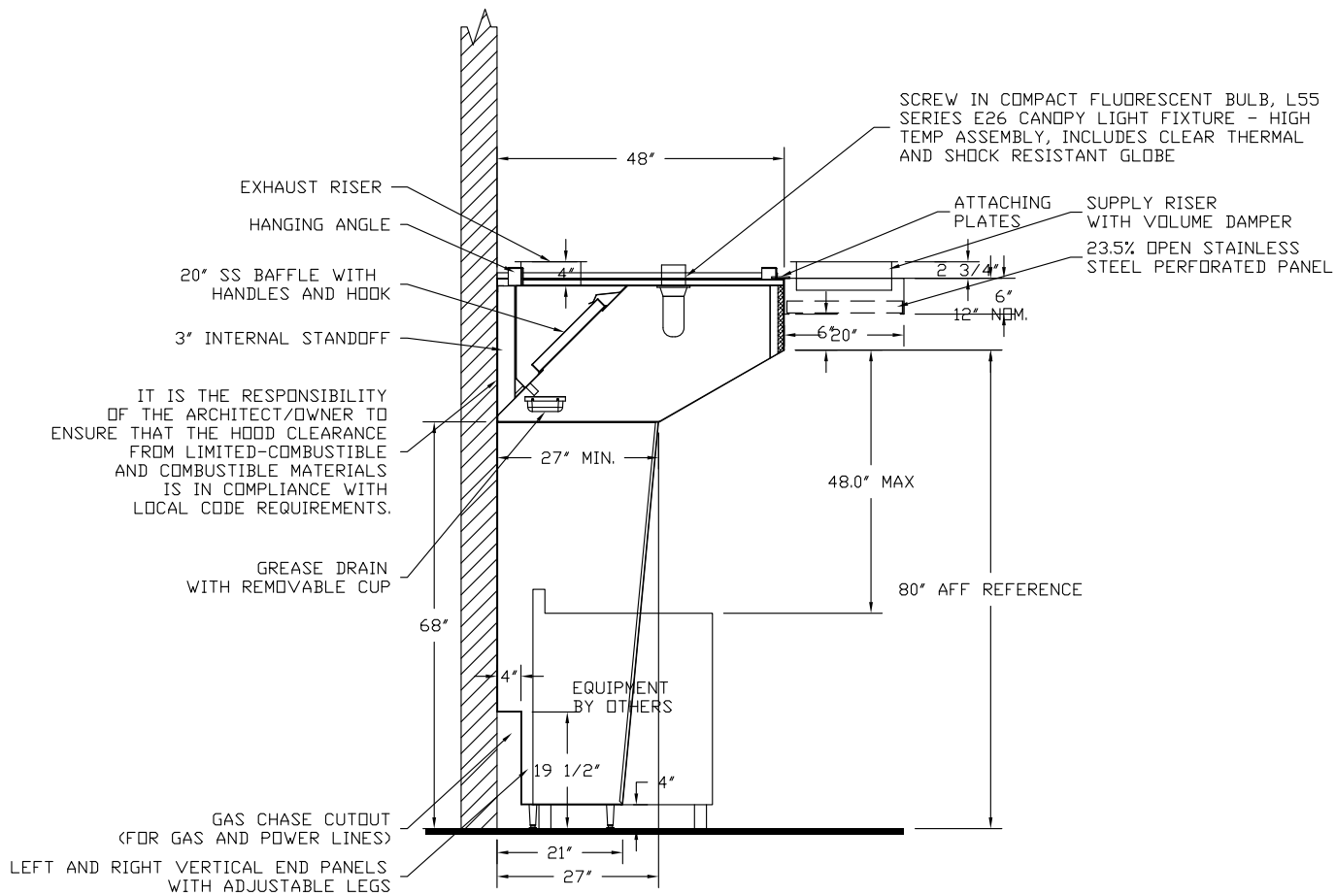
Revise and Resubmit

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JOB Portland w AltoShaam - 12ft	
LOCATION SCARBOROUGH, ME,	
DATE 12/7/2015	JOB # 2497308
DWG # 1	DRAWN BY MD-21
REV.	SCALE 3/8" = 1'-0"



**SECTION VIEW - MODEL 4812SND-2-PSP-F
HOOD - #1**

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JOB Portland w AltoShaam - 12ft	
LOCATION SCARBOROUGH, ME,	
DATE 12/7/2015	JOB # 2497308
DWG # 2	DRAWN BY MD-21
REV.	SCALE 3/8" = 1'-0"

EXHAUST FAN INFORMATION - Job#2497308

FAN UNIT NO.	TAG	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	WEIGHT (LBS.)	SDNES
1		NCA24HPFA	2820	2.000	1027	3.000	1.7420	1	230	17.0	299	20

MUA FAN INFORMATION - Job#2497308

FAN UNIT NO.	TAG	FAN UNIT MODEL #	BLOWER	HOUSING	CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	WEIGHT (LBS.)	SDNES
2		A1-G10	G10	A1	1889	1.250	1111	1.500	0.8520	1	230	10.2	293	26

FAN OPTIONS

FAN UNIT NO.	TAG	OPTION (Qty. - Descr.)
1		1 - Grease Box
		1 - Extra Set of Belts
		1 - 3 Year Extended Motor Warranty
		1 - Fan Base Ceramic Seal - For Grease Ducts
2		1 - Full Crating For Untempered Fans
		1 - Extra Set of Belts
		1 - Gravity Backdraft Damper for Size 1 Housing

FAN ACCESSORIES

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

CURB ASSEMBLIES

NO.	DN FAN	WEIGHT	ITEM	SIZE
1	# 1	48 LBS	Curb	31.500"W x 31.500"L x 20.000"H Vented Hinged
2	# 2	29 LBS	Curb	21.000"W x 21.000"L x 20.000"H

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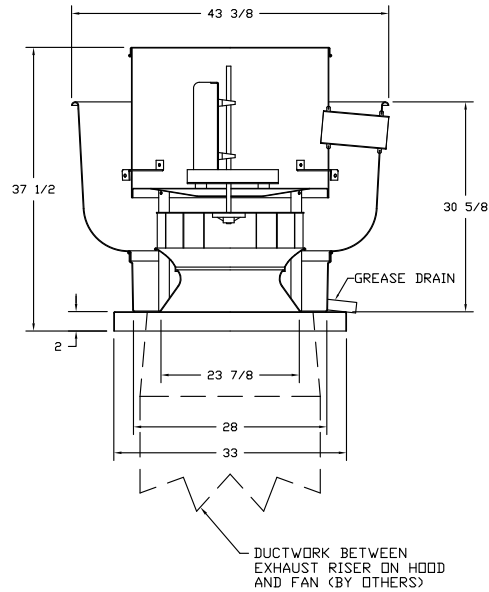
SIGNATURE _____

Your Title _____ Date _____



JOB Portland w AltoShaam - 12ft	
LOCATION SCARBOROUGH, ME,	
DATE 12/7/2015	JOB # 2497308
DWG # 3	DRAWN BY MD-21
REV.	SCALE 3/8" = 1'-0"

FAN #1 NCA24HPFA - EXHAUST FAN



FEATURES:

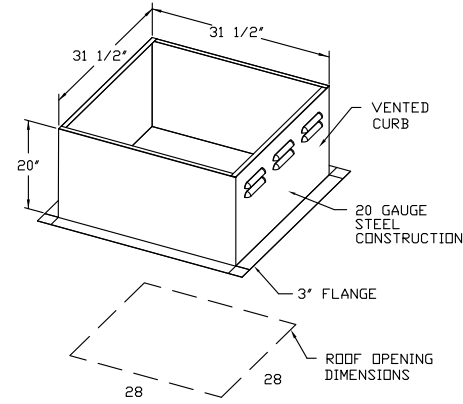
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762
- AMCA SOUND AND AIR CERTIFIED
- WIRING FROM MOTOR TO DISCONNECT SWITCH
- WEATHERPROOF DISCONNECT
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

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

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

OPTIONS

- GREASE BOX
- EXTRA SET OF BELTS
- 3 YEAR EXTENDED MOTOR WARRANTY
- FAN BASE CERAMIC SEAL - FOR GREASE DUCTS



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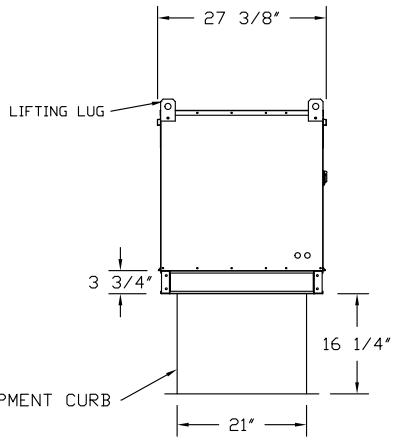
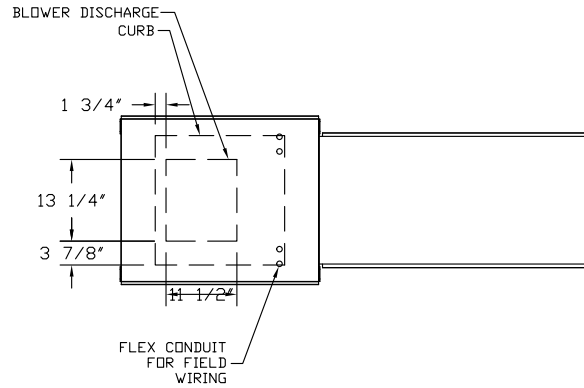
Your Title _____ Date _____



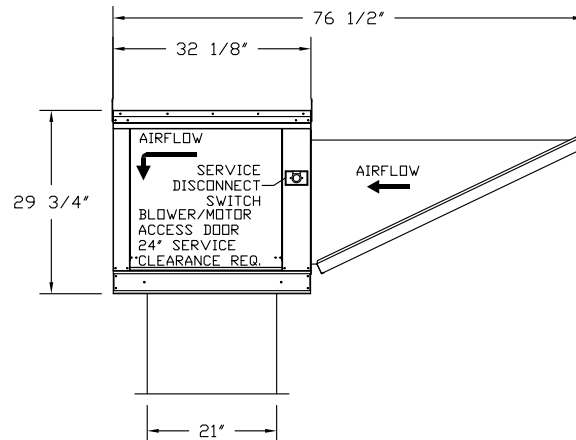
JOB Portland w AltoShaam - 12ft	
LOCATION SCARBOROUGH, ME,	
DATE 12/7/2015	JOB # 2497308
DWG # 4	DRAWN BY MD-21
REV.	SCALE 3/8" = 1'-0"

FAN #2 A1-G10 - SUPPLY FAN

1. UNTEMPERED SUPPLY UNIT WITH 10" BLOWER IN SIZE #1 HOUSING
2. INTAKE HOOD WITH EZ FILTERS
3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT
4. FULL CRATING FOR UNTEMPERED FANS FOR SHIPPING.
5. EXTRA SET OF V-BELTS. ONLY TO BE ORDERED AS FAN OPTION AT TIME FAN IS ORDERED.
6. 3 YEAR EXTENDED WARRANTY FOR FAN MOTOR. PARTS ONLY; DOES NOT INCLUDE LABOR.
7. GRAVITY BACK DRAFT DAMPER, 16" WIDE X 18" HIGH, STANDARD GALVANIZED CONSTRUCTION, 1 1/4" REAR FLANGE, FOR SIZE 1 UNTEMPERED FAN HOUSING (S181)



ROOF OPENING 2" SMALLER THAN CURB DIMENSION.



CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted	<input type="checkbox"/>
Approved with NO Exception Taken	<input type="checkbox"/>
Revise and Resubmit	<input type="checkbox"/>
SIGNATURE _____	
Your Title _____	Date _____



JOB Portland w AltoShaam - 12ft	
LOCATION SCARBOROUGH, ME,	
DATE 12/7/2015	JOB # 2497308
DWG # 5	DRAWN BY MD-21
REV.	SCALE 3/8" = 1'-0"

Exhaust Fan Wiring

JOB 2497308 - Portland w AltoShaan - 12ft

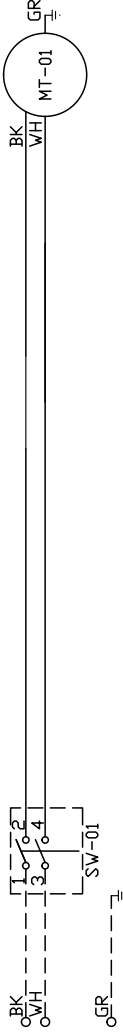
DRAWING NUMBER EXH2497308-1

SHIP DATE 12/7/2015

MODEL NCA24HPFA

Installed Options

1



Component Identification Location
 Label Description Location
 MT-01 Fan Motor [2]

SW-01 Main disconnect switch [2]

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

EXHAUST MOTOR_INFO
 3HP-230V-1P-17.0FLA

ELECTRICAL INFORMATION
 MOTOR/CTRL MOP: 213A
 MOTOR/CTRL MOP: 55A

CUSTOMER APPROVAL TO MANUFACTURE:

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Revise and Resubmit

SIGNATURE _____ Date _____

Your Title _____

NOTES
 - - - - DENOTES FIELD WIRING
 _____ DENOTES INTERNAL WIRING

WIRE COLOR
 BK - BLACK YW - YELLOW
 BL - BLUE GR - GREEN
 BR - BROWN GY - GRAY
 OR - ORANGE PR - PURPLE
 RD - RED PK - PINK
 WH - WHITE

21

22

23

AirHandler Wiring

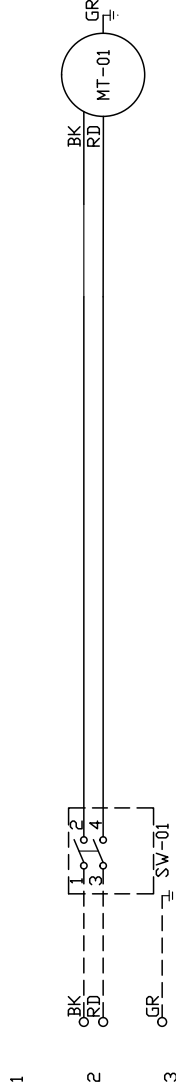
JOB 2497308 - Portland w AltoShoam - 12ft

DRAWING NUMBER A2497308-2

SHIP DATE 12/7/2015

MODEL A1-G10

ATTENTION ELECTRICIAN!
 DROP FOR DISCONNECT CONNECTION
 IS FACTORY SUPPLIED
 CONNECT POWER TO THE DROP



Installed Options

Component Identification Location

Label Description Location
 MT-01 Supply motor [20]

SW-01 Main disconnect switch [20]

MOTOR_INFO
 SUPPLY 1.5HP-230V-1P-10.2FLA

ELECTRICAL INFORMATION
 MOTOR/CTRL CIRCUIT MOP: 12.8A
 MOTOR/CTRL CIRCUIT MOP: 0A

CUSTOMER APPROVAL TO MANUFACTURE:

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Approved with NO Exception Taken

Revise and Resubmit

SIGNATURE _____ Date _____

Your Title _____

- NOTES
- DENOTES FIELD WIRING
 - ___ DENOTES INTERNAL WIRING
- WIRE COLOR
- BK - BLACK YW - YELLOW
 - BL - BLUE GR - GREEN
 - BR - BROWN GY - GRAY
 - OR - ORANGE PR - PURPLE
 - RD - RED PK - PINK
 - WH - WHITE

ELECTRICAL PACKAGES - Job#2497308

NO.	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		TYPE	Ø	H.P.	VOLT	FLA
1		SC-211110FP	Wall Mount In SS Box	SS Wall Mount Box	1 Light 1 Fan	Smart Controls Thermostatic Control	Exhaust	1	3.000	230	17.0
							Supply	1	1.500	230	10.2

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JOB Portland w AltoShaam - 12ft	
LOCATION SCARBOROUGH, ME,	
DATE 12/7/2015	JOB # 2497308
DWG # 8	DRAWN BY MD-21
REV.	SCALE 3/8" = 1'-0"

JOB NO
2497308

MODEL NUMBER
SC-211110FP

DRAWN BY
INSTALL

DESCRIPTION OF OPERATION:
220V 1 Phase w/ control for 1 Exhaust Fan, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Fan(s) On/Off
Thermostatically Controlled. Room temperature sensor shipped loose for field installation.

JOB NAME
Portland w AltoShaan - 12ft

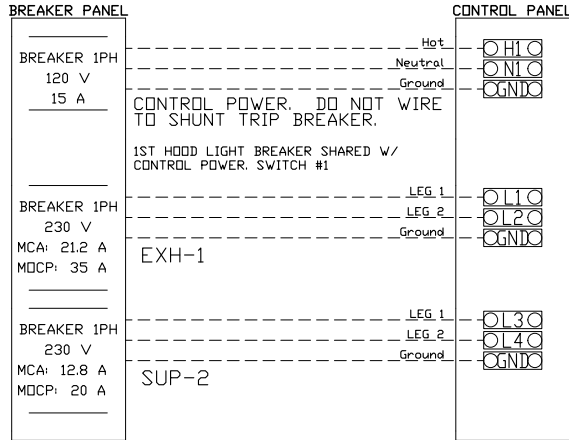
DATE
12/7/2015

DWG NO
ECP #1-1

BREAKER PANEL TO CONTROL PANEL

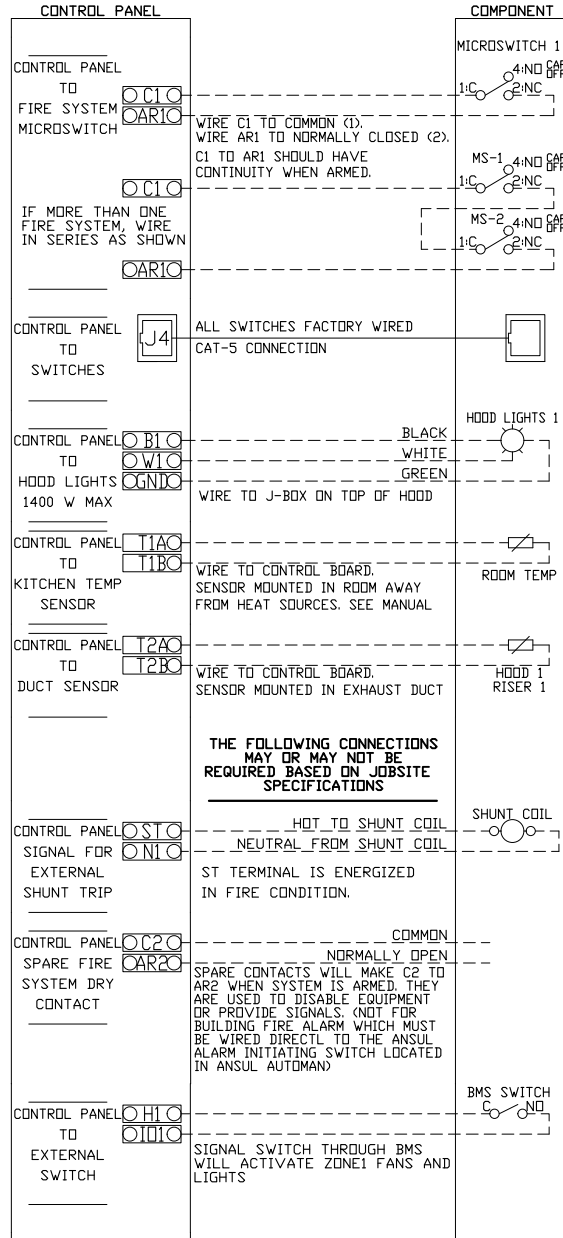
Responsibility: Electrician

BREAKER SIZE SHOWN IS THE MAXIMUM ALLOWED



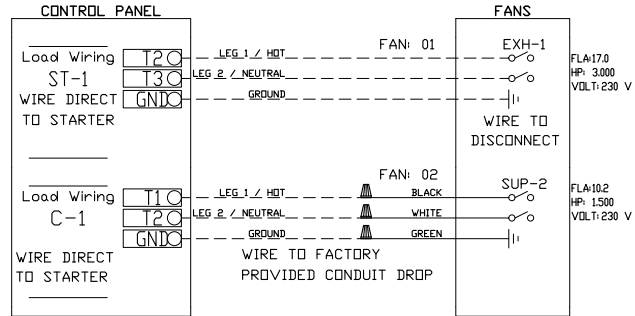
CONTROL PANEL TO ACCESSORY ITEMS

Responsibility: Electrician



CONTROL PANEL TO FANS

Responsibility: Electrician



CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

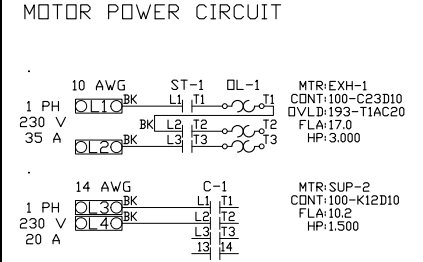
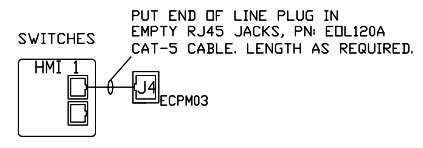
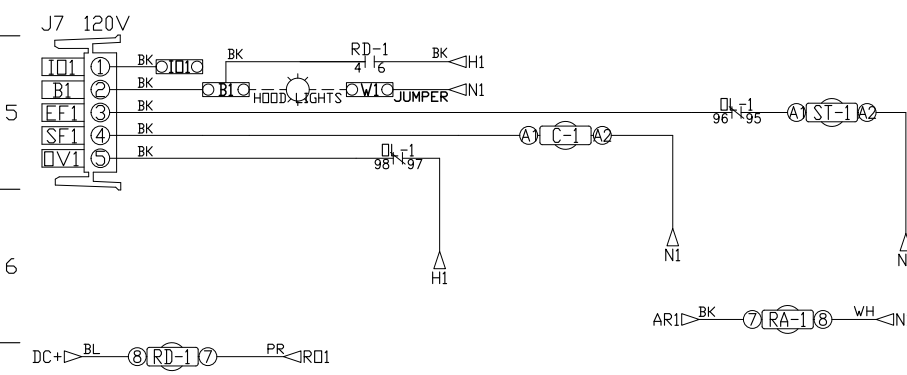
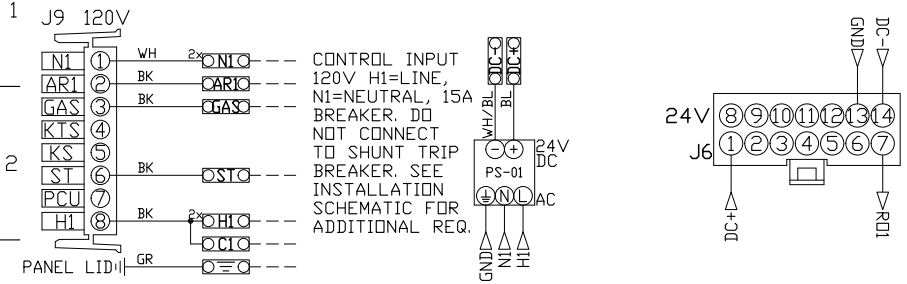
Approved with NO Exception Taken

Revise and Resubmit

SIGNATURE _____

Your Title _____ Date _____

UNLESS SPECIFIED OTHERWISE, ALL FACTORY AC WIRING 16 AWG. ALL FACTORY DC WIRING 18 AWG.



FACTORY WIRING SCHEMATIC CIRCUIT BOARDS
ECPM03 Rev. 1.35
HMI Rev. 1.06

RA-x 120 VAC RELAY	RD-x 24 VDC RELAY
NO 4 3	14 NO
NC 2 1	12 NC
COIL 8 7	+A1 A2 COIL
COM 6 5	11 COM

COMPONENT LIST

LABEL	DESCRIPTION
ST-X	Starter PN-varies
DL-X	Overload PN-varies
C-X	Contactors PN-varies
PS-1	Power Sup. 24VDC PN-MDP18-24A-1C
RA-x	120V Relay DPDT PN-34.110.0184.0
RD-x	24VDC Light Relay PN-34.110.0186.0

LEGEND

--- FIELD WIRING
 ——— FACTORY WIRING

BK- BLACK YW- YELLOW
 BL- BLUE GY- GREY
 BR- BROWN PR- PURPLE
 OR- ORANGE RD- RED
 WH- WHITE
 OR/BL- OR/BL STRIPE
 BL/RD- BL/RD STRIPE
 RD/GN- RD/GN STRIPE
 WH/BL- WH/BL STRIPE

JOB NAME
 Portland w AltoS...

DRAWING TITLE
 SC-211110FP

DESCRIPTION OF OPERATION
 220V 1 Phase w/ control for 1 Exhaust Fan, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Fan(s) On/Off Thermostatically Controlled. Room temperature sensor shipped loose for field installation.

JOB NO 2497308	DRAWN BY
TYPE FACTORY	DATE 12/7/2015
DWG NO ECP #1-2	

CUSTOMER APPROVAL TO MANUFACTURE:

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