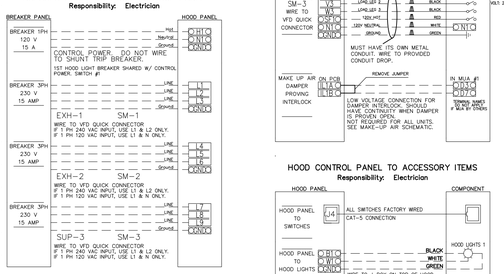
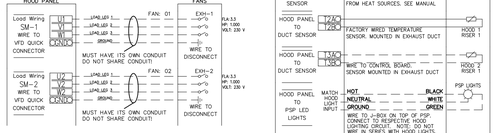
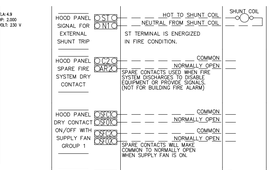
JOB NO	MODEL NUMBER	DRAWN BY	SCHEMATIC TYPE	DESCRIPTION OF OPERATION:
1934403	SC-EMS2111		INSTALL	Energy Management System w/ 2 Exhaust Fans, 1 Supply Fan. Exhaust on in Fire, Lights out in Fire, Fans modulate based on duct temperature. INVERTER DUTY THREE PHASE MOTOR REQUIRED! Room temperature sensor shipped loose for field installation.
JOB NAME: Maine Wharf Restaurant	DATE: 12/18/2013	DWG NO: ECP #1-1		

BREAKER PANEL TO HOOD CONTROL PANEL
Responsibility: Electrician

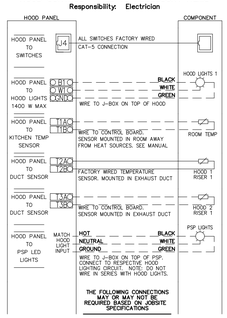


HOOD CONTROL PANEL TO FANS / MUA
Responsibility: Electrician





HOOD CONTROL PANEL TO ACCESSORY ITEMS
Responsibility: Electrician



JOB NO	MODEL NUMBER	DRAWN BY	SCHEMATIC TYPE	DESCRIPTION OF OPERATION:
1934403	SC-EMS2111		INSTALL	Fire System #1 CORE Protection. CORE Appliance Manifold Package with Self Cleaning. Installed in Hood Utility Cabinet with integral hood presets panel.
JOB NAME: Maine Wharf Restaurant	DATE: 12/18/2013	DWG NO: ECP #1-2		

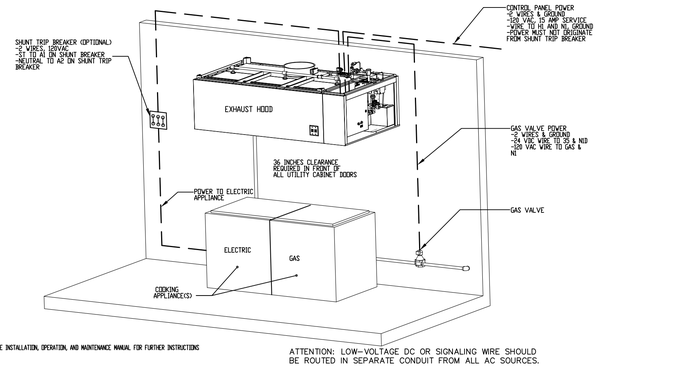
CORE TOTAL FLOOD PROTECTION ELECTRICAL DETAIL

05/08/2013 Rev. 8

FS-1: MASTER

ELECTRICIAN:
1. WIRE MAIN CONTROL PANEL PER INCLUDED SCHEMATIC
2. WIRE ALL FANS PER INCLUDED SCHEMATIC
3. WIRE SHUNT TRIP BREAKER (OPTIONAL)
4. WIRE UDS APPLIANCE KILL SWITCH (IF EQUIPPED) (OPTIONAL)
5. WIRE GAS VALVE

ELECTRICAL CONTRACTOR REQUIREMENT					
ITEM	CONNECTION IN PANEL	CONNECTION IN DEVICE	VOLTAGE	AMPERAGE	COMMENTS
SHUNT TRIP BREAKER (OPTIONAL)	ST & N1	BREAKER COIL (A1 & A2)	120 VAC	< 4 AMPS	ST TO A1 ON SHUNT BREAKER COIL, AND NEUTRAL TO A2 ON SHUNT TRIP BREAKER COIL
CONTROL PANEL POWER	H1 & N1 + GROUND	CIRCUIT BREAKER	120 VAC	15 AMPS	CONTROL PANEL POWER MUST NOT BE RUN THROUGH SHUNT TRIP BREAKER
UDS APPLIANCE KILL SWITCH (OPTIONAL)	KTS & N1	KTS & N1	120 VAC	< 4 AMPS	KILL SWITCH TERMINALS MUST BE IN SERIES WITH OTHER KILL SWITCHES
REMOTE ANSUL AUTOMAN (OPTIONAL)	AU1, AU2	SOLENOID	120 VAC	< 6 AMPS	120V TO AU1, AU2 TO ANSUL ELECTRIC AUTOMAN, ANSUL SOLENOID TO NEUTRAL
GAS VALVE	20 & N20 (IF 24 VDC) GAS & N1 (IF 120 VAC)	RED/RED/GREEN	24 VDC OR 120 VAC	< 10 AMPS	IF 24 VDC - 2 WIRES & GROUND, N20 TO RED, 20 TO RED, AND GREEN TO GROUND IF 120 VAC - 2 WIRES & GROUND GAS TO RED, N1 TO RED, AND GREEN TO GROUND



NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

ATTENTION: LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES.

JOB NO	MODEL NUMBER	DRAWN BY	SCHEMATIC TYPE	DESCRIPTION OF OPERATION:
1934403	SC-EMS2111		INSTALL	Fire System #1 CORE Protection. CORE Appliance Manifold Package with Self Cleaning. Installed in Hood Utility Cabinet with integral hood presets panel.
JOB NAME: Maine Wharf Restaurant	DATE: 12/18/2013	DWG NO: ECP #1-3		

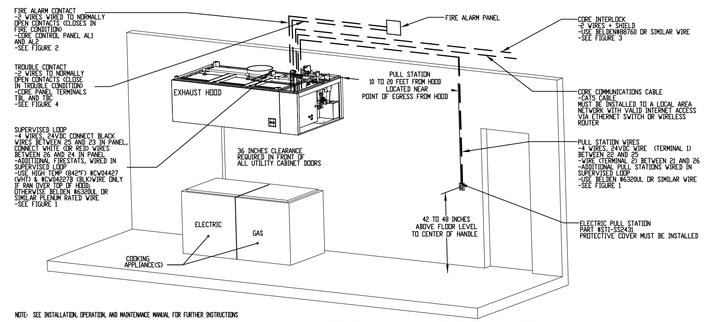
CORE TOTAL FLOOD PROTECTION LOW-VOLTAGE DETAIL

05/08/2013 Rev. 8

FS-1: MASTER

ALARM CONTRACTOR:
1. WIRE REMOTE PULL STATIONS, REMOTE FIRESTATS, CORE INTERLOCKS, FIRE SENSORS AND FIRE ALARM CONTACTS
2. COMPLETE FINAL HOOKUP OF SYSTEM
3. PERFORM FINAL FIRE SYSTEM TEST
4. FILL SURFACTANT TANK

ALARM CONTRACTOR REQUIREMENT					
ITEM	CONNECTION IN PANEL	CONNECTION ON DEVICE	VOLTAGE	AMPERAGE	COMMENTS
REMOTE PULL STATION(S)	22 AND 25 21 AND 26	1 & 2	24 VDC	< 1.0 AMPS	WIRE PULL STATION TERMINAL 1 BETWEEN HOOD CORE PANEL TERMINALS 22 AND 25. WIRE PULL STATION TERMINAL 2 BETWEEN HOOD CORE PANEL TERMINALS 21 AND 26; USE BELDEN 9620UL OR SIMILAR WIRE.
PULL STATION COVER	N/A	N/A	N/A	N/A	PULL STATION COVER MUST BE INSTALLED IF SURFACE MOUNTED USE COVER EXTENSION 1-7-PS-EX319
REMOTE FIRESTAT SENSOR(S)	23 AND 23 24 AND 24	BLACK AND WHITE	24 VDC	< 1.0 AMPS	WIRE FIRE SENSOR TERMINAL WIRES BETWEEN HOOD CORE PANEL TERMINALS 23 AND 23. WIRE FIRE SENSOR TERMINAL WIRES BETWEEN HOOD CORE PANEL TERMINALS 24 AND 24. HIGH TEMP (94A°F) #CW4447 (WHT) & #CW4447B (BLK)WIRE OR SIMILAR ONLY IF RAN OVER TOP OF HOOD, OTHERWISE BELDEN 9620UL OR SIMILAR PLENUM RATED WIRE, SEE FIGURE 1
FIRE ALARM CONTACT	AL1, AL2	VARIES	50V MAX (AC/DC)	UP TO 1 AMP	FIRE ALARM RELAY CONTACTS FOR BUILDING FIRE ALARM LOCATED IN THE CORE ELECTRICAL CONTROL PANEL
CORE INTERLOCK(S)	ILA, ILB, ILC	ILA, ILB, ILC	RS-485 COMMUNICATIONS SIGNAL		CORE SYSTEM (1) ILA TO CORE SYSTEM (2) ILA CORE SYSTEM (1) ILB TO CORE SYSTEM (2) ILB CORE SYSTEM (1) ILC TO CORE SYSTEM (2) ILC USE BELDEN 88760 OR SIMILAR WIRE
TROUBLE CONTACT	TBC, TBL, TDK	VARIES	MAX 120 VAC	UP TO 6 AMPS	WIRE TO TBL & TBC NORMALLY OPEN CONTACT, CLOSES IN TROUBLE CONDITION
CORE COMMUNICATIONS CABLE	RJ-45 Jack	INTERNET CONNECTION	SIGNAL	<1.0 AMPS	TYPICAL CONNECTION CAT5 CABLE TO LOCAL AREA NETWORK VIA ETHERNET SWITCH OR WIRELESS ROUTER WITH VALID INTERNET CONNECTION



NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

ATTENTION: LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES.

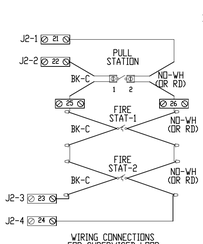
JOB NO	MODEL NUMBER	DRAWN BY	SCHEMATIC TYPE	DESCRIPTION OF OPERATION:
1934403	SC-EMS2111		INSTALL	Fire System #1 CORE Protection. CORE Appliance Manifold Package with Self Cleaning. Installed in Hood Utility Cabinet with integral hood presets panel.
JOB NAME: Maine Wharf Restaurant	DATE: 12/18/2013	DWG NO: ECP #1-4		

CORE TOTAL FLOOD PROTECTION LOW-VOLTAGE FIGURES

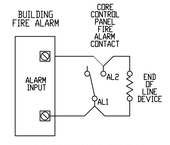
05/08/2013 Rev. 8

FS-1: MASTER

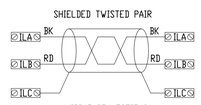
ATTENTION: LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES.



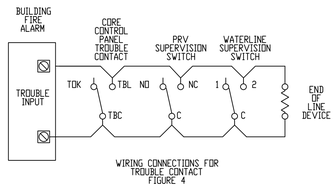
WIRING CONNECTIONS FOR SUPERVISED LOOP FIGURE 1



WIRING CONNECTIONS FOR FIRE ALARM CONTACT FIGURE 2



WIRING CONNECTIONS FOR CORE INTERLOCK FIGURE 3



WIRING CONNECTIONS FOR TROUBLE CONTACT FIGURE 4

REVISIONS	
DESCRIPTION	DATE:

CAPTIVEAIRE
www.captiveaire.com
MAINE OFFICE
PO Box 86, 179 South Rd., Topsfield, ME. 04490 PHONE: (207) 796-2590 FAX: (919) 227-5946 EMAIL: reg21@captiveaire.com

Maine Wharf Restaurant
PORTLAND, ME

DATE: 12/18/2013

DWG.#: 1934403

DRAWN BY: BFC-21

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

MASTER DRAWING

SHEET NO. 12