

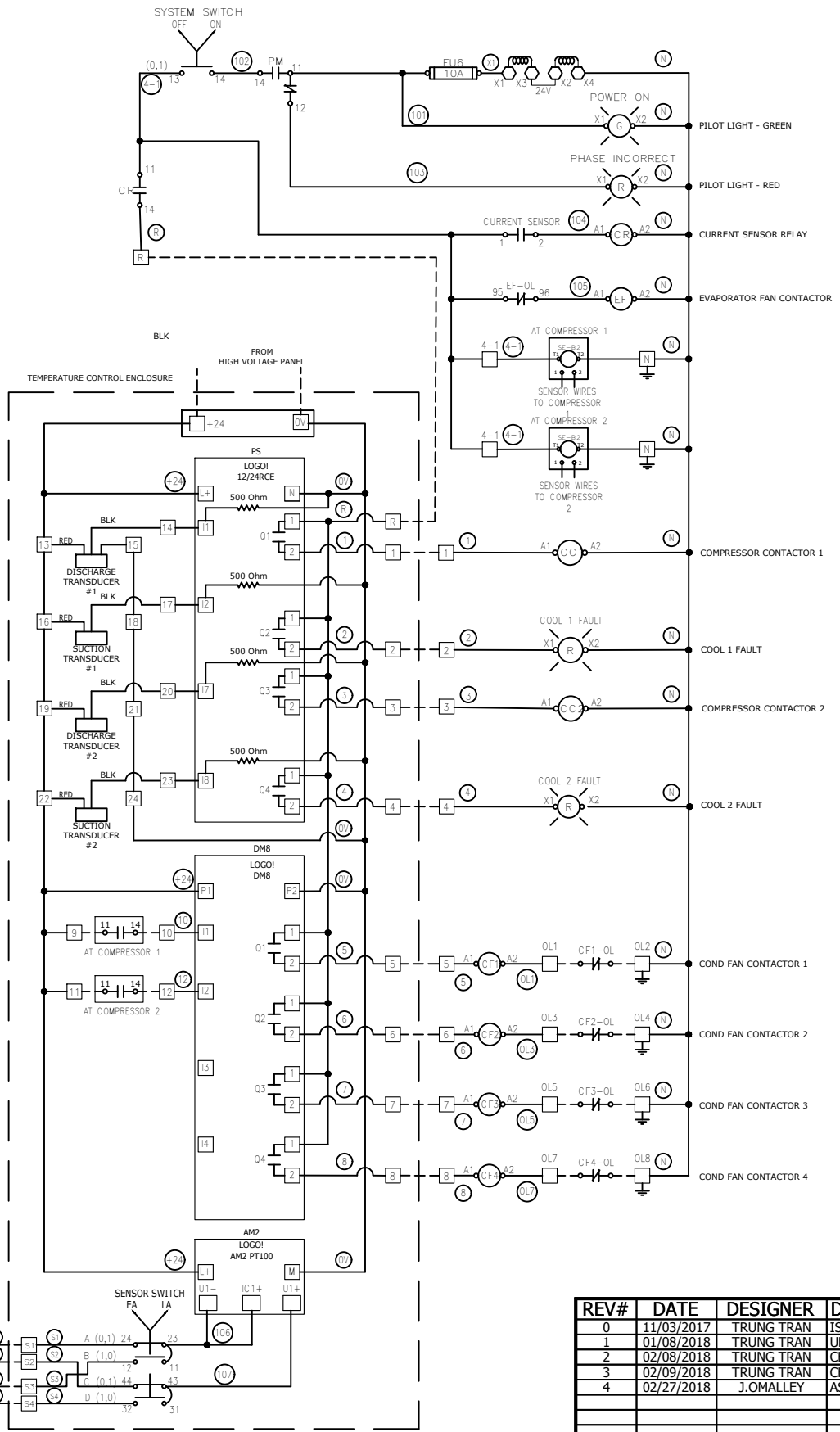
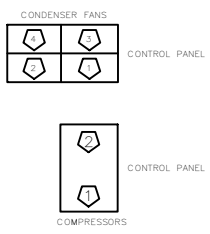
WIRING NOTES

208/120VAC PHASE A - BLACK PHASE B - RED PHASE C - BLUE NEUTRAL - WHITE GROUND - GREEN	480/277VAC PHASE A - BROWN PHASE B - ORANGE PHASE C - YELLOW NEUTRAL - GRAY GROUND - GREEN	24VDC POSITIVE - DARK BLUE NEGATIVE - GRAY
INTRINSICALLY SAFE WIRING 18AWG LIGHT BLUE AND MUST BE SEPARATED FROM OTHER WIRING BY MINIMUM OF 2". IF CABLE USED IT MUST BE SHIELDED.		
IF VAC WIRING GAUGE NOT SPECIFIED USE 18 AWG IF VDC WIRING GAUGE NOT SPECIFIED USE 18 AWG		

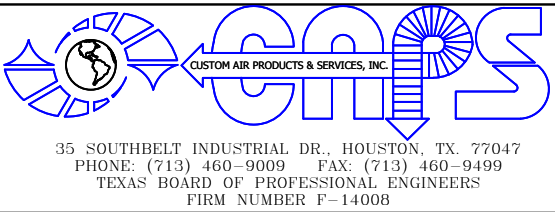
- NOTES:**
- SEE NC-REF001-C001 FOR FIELD WIRING SPECIFICATION.
 - ALL DEVICES SHOWN DE-ENERGIZED.
 - WIRE POINT TO POINT PER WIRE CHART.
 - EACH END OF EACH CONTROL AND POWER WIRE TO BE MARKED WITH HEAT SHRINK MARKERS.
 - USE FERRULES FOR ALL CONNECTIONS.

LEGEND

EF	- EVAPORATOR FAN CONTACTOR
CF	- CONDENSOR FAN CONTACTOR
CC	- COMPRESSOR CONTACTOR
PM	- PHASE MONITOR
PDB	- POWER DISTRIBUTION BLOCK



REV#	DATE	DESIGNER	DESCRIPTION
0	11/03/2017	TRUNG TRAN	ISSUE FOR CONSTRUCTION
1	01/08/2018	TRUNG TRAN	UPDATE NUCO DRAWING PER ECN# 00303
2	02/08/2018	TRUNG TRAN	CHANGE LOGO INPUT PER ECR#00349
3	02/09/2018	TRUNG TRAN	CHANGE MAIN BREAKER W/MCA & MOP PER ECR# 00354
4	02/27/2018	J.OMALLEY	AS BUILT



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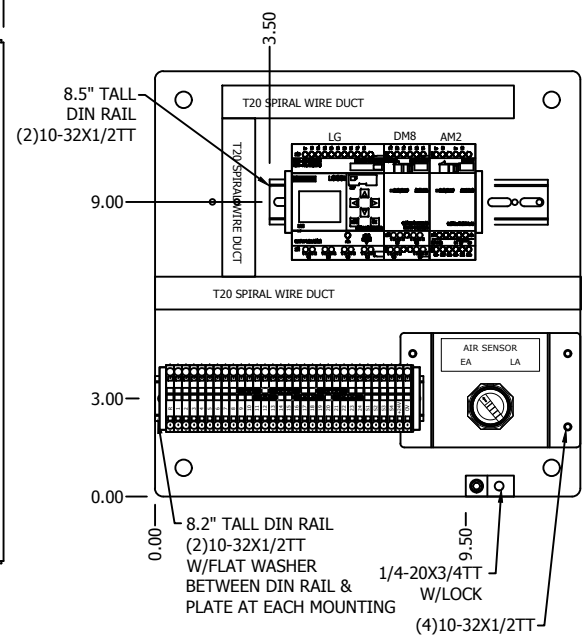
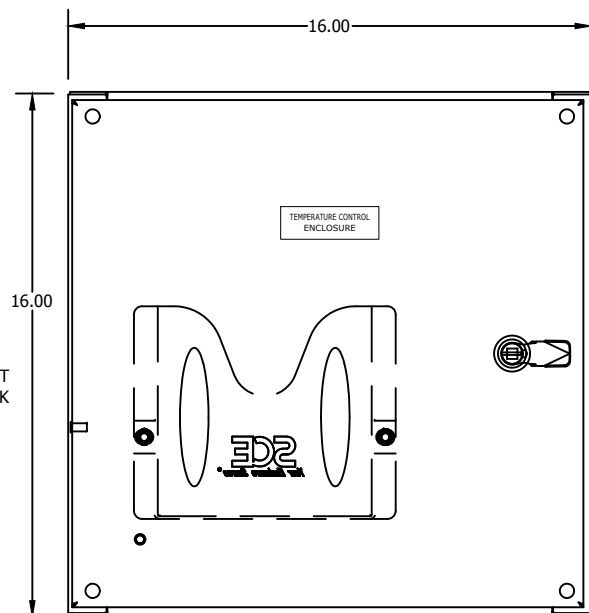
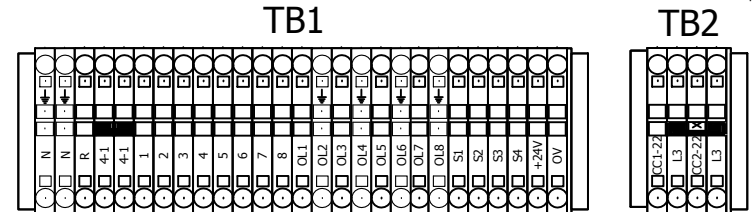
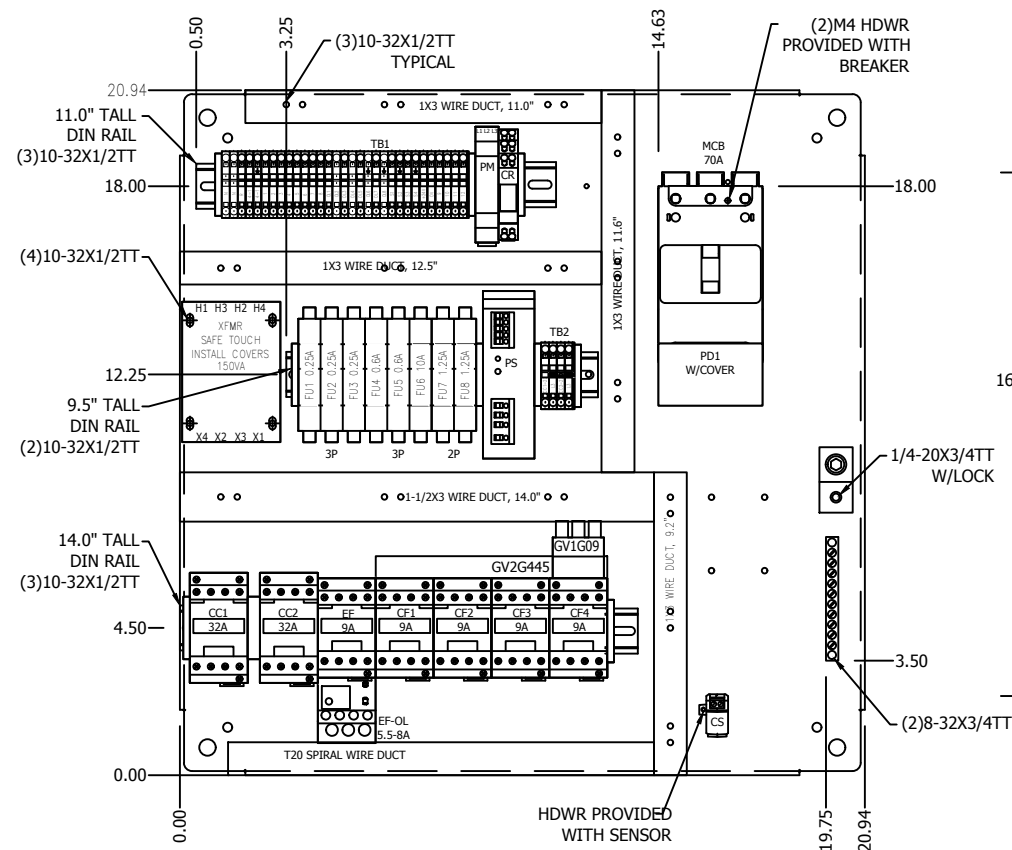
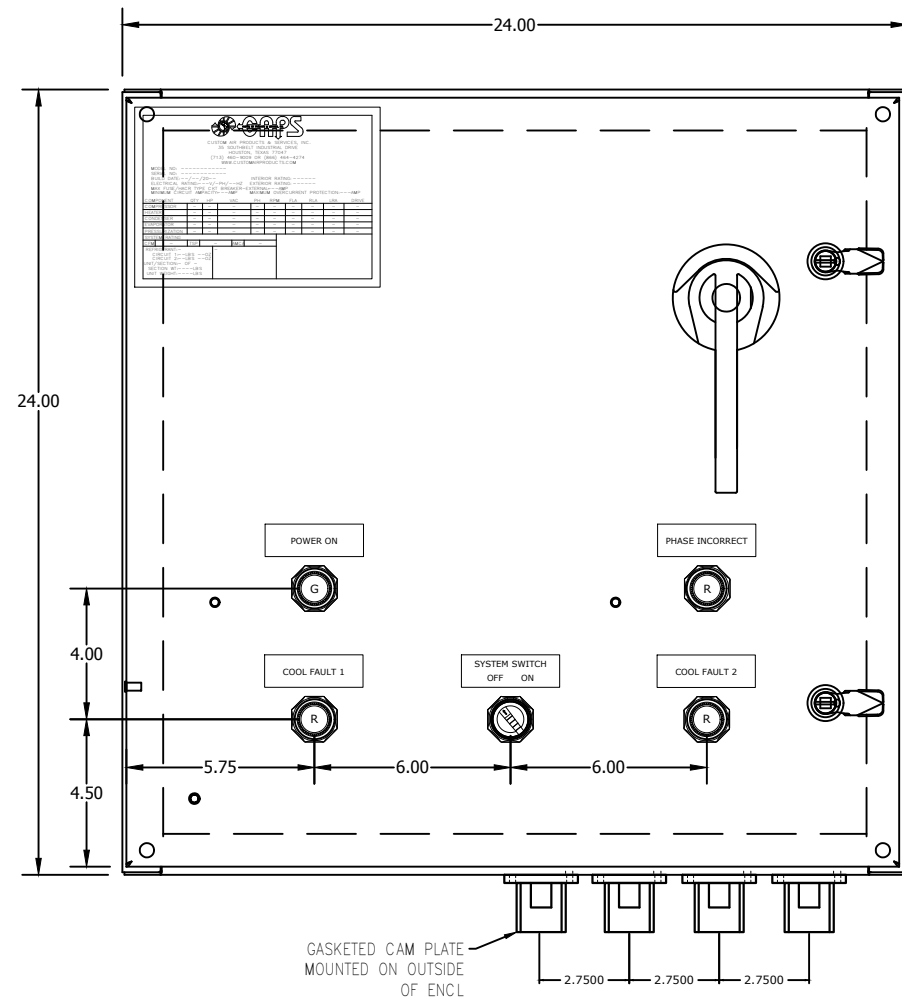
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APPROVER: _____ DATE: _____

CAPS NO.:	17F-0794	DRAWING:	AE1	DRAWN BY:	DAVID NGUYEN	DATE:	11/09/2017
CUST. PO#:		SHEET:	1 OF 3	CHECKED BY:	DAVID NGUYEN	DATE:	02/09/2018
SIZE:	B	REV:	4	APPROVED BY:	LARRY NOVAK	DATE:	02/27/2019

CUSTOMER: CAPS

20 TON INDUSTRIAL AC UNIT NEMA 4
GENERAL PURPOSE
460V/3P/60HZ
ELECTRICAL DESIGN
ELECTRICAL WIRING DIAGRAM

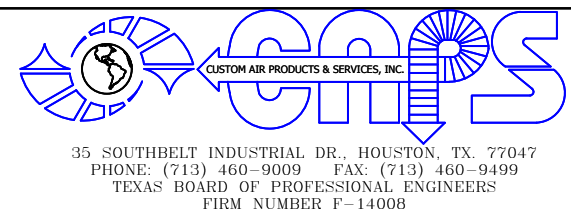


LEGEND

EF	- EVAPORATOR FAN CONTACTOR
CF	- CONDENSOR FAN CONTACTOR
CC	- COMPRESSOR CONTACTOR
PM	- PHASE MONITOR
PDB	- POWER DISTRIBUTION BLOCK

NOTES:
 1. EACH DEVICE TO HAVE (2) LABELS. ONE ON DEVICE, ONE ON PANEL BEHIND DEVICE.

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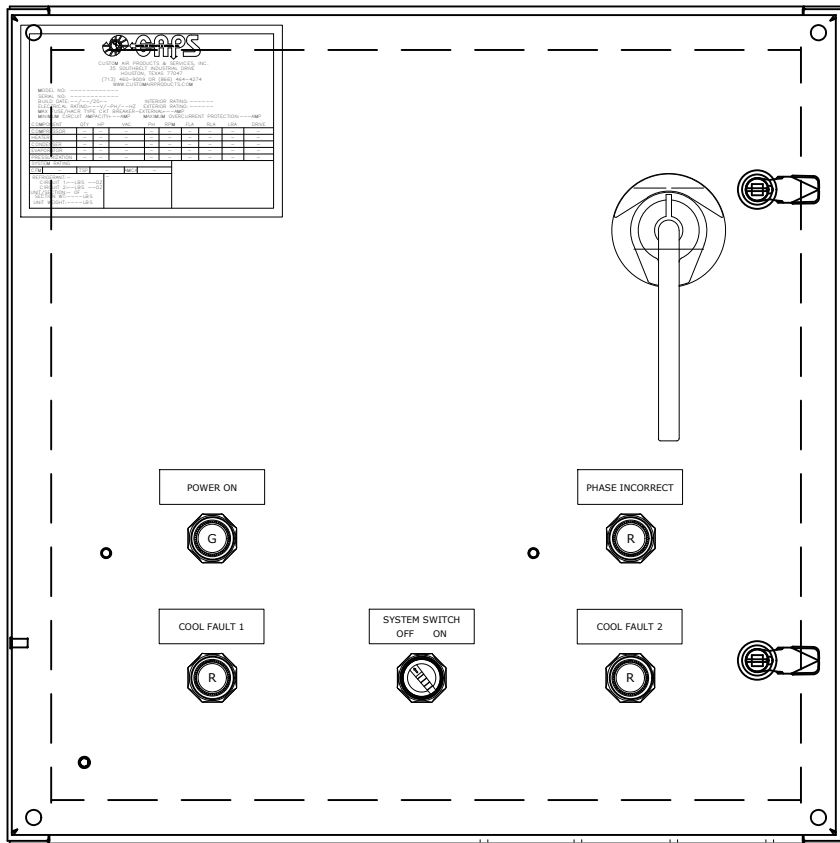
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CAPS NO.:	17F-0794	DRAWING:	AE2	DRAWN BY:	DAVID NGUYEN	DATE:	11/09/2017
CUST. PO#:		SHEET:	2 OF 3	CHECKED BY:	DAVID NGUYEN	DATE:	02/09/2018
SIZE:	B	REV:	4	APPROVED BY:	LARRY NOVAK	DATE:	02/27/2019

CUSTOMER: CAPS

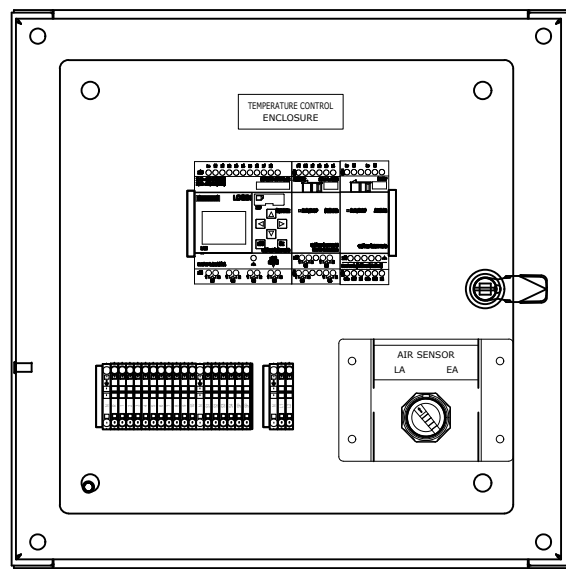
20 TON INDUSTRIAL AC UNIT NEMA 4
 GENERAL PURPOSE
 460V/3P/60HZ
 ELECTRICAL DESIGN
 PANEL LAYOUT



SEQUENCE OF OPERATION

The system is placed into initial operation as follows:

- Turn System Switch to "OFF"
- Turn Circuit Breaker "ON"
 - If the "Phase Incorrect" light is on, turn off the circuit breaker; reverse two (2) phases of incoming power for proper phase sequencing then check the incoming power source to be sure the unit has a good power source - 460V/3P/60HZ
 - If the "Power On" light is on and the "Phase Incorrect" light is off, the unit is ready for operation
- Turn System Switch to "ON"
- Air Sensor Switch settings:
 - 1- Leaving: The HVAC is controlled by the leaving air temperature
 - 2- Entering: The HVAC is controlled by the return air temperature
- Thermostat field settings:
 - 1- Press PRG
 - 2- Press DOWN buttons to move down to next screen (temperature setpoint)
 - 3- Press ENTER to highlight temperature setting and use up and down arrows to change temperature.
 - 4 - Press Enter to accept the change
 - 5 - Press Escape to return to main screen.
- If a Compressor is failed, it will be turned off and locked out then its light alarm will be turned on.
- Only use System Switch to turn off the unit



NOTE: THIS UNIT IS "COOL" ONLY

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35 SOUTHBELT INDUSTRIAL DR., HOUSTON, TX. 77047
 PHONE: (713) 460-9009 FAX: (713) 460-9499
 TEXAS BOARD OF PROFESSIONAL ENGINEERS
 FIRM NUMBER P-14008

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CUST. PO#:	SHEET:	CHECKED BY:	DATE:
	3 OF 3	DAVID NGUYEN	02/09/2018
SIZE:	REV:	APPROVED BY:	DATE:
B	4	LARRY NOVAK	02/27/2019

CUSTOMER:	CAPS
20 TON INDUSTRIAL AC UNIT NEMA 4 GENERAL PURPOSE 460V/3P/60HZ ELECTRICAL DESIGN SEQUENCE OF OPERATION	