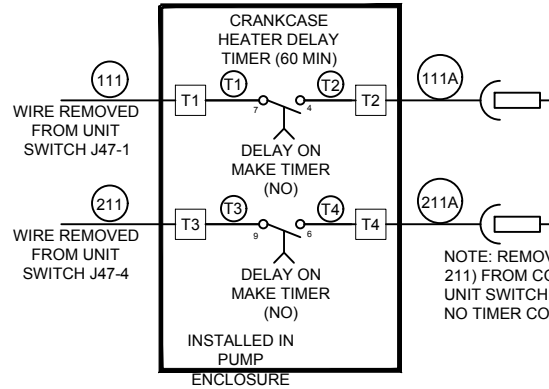
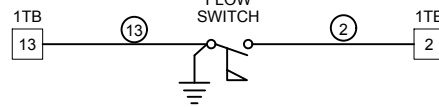
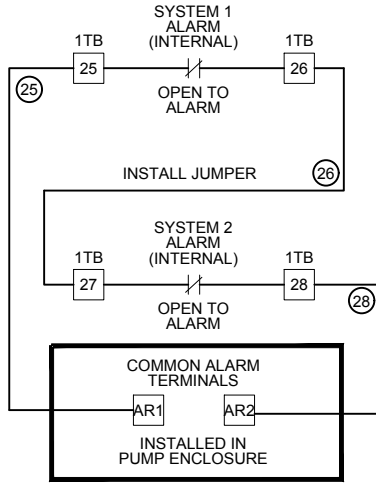
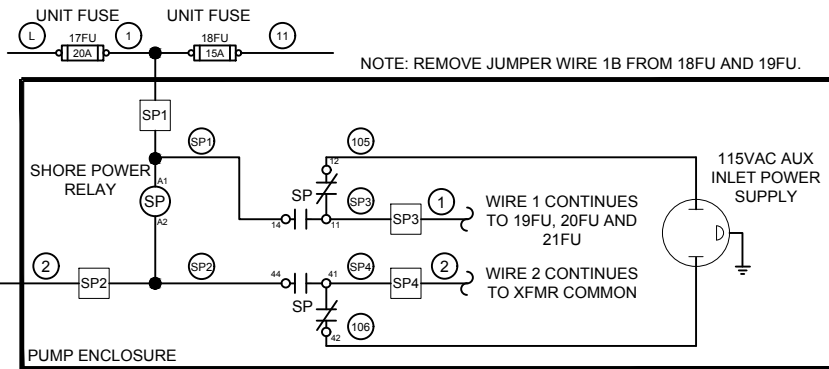
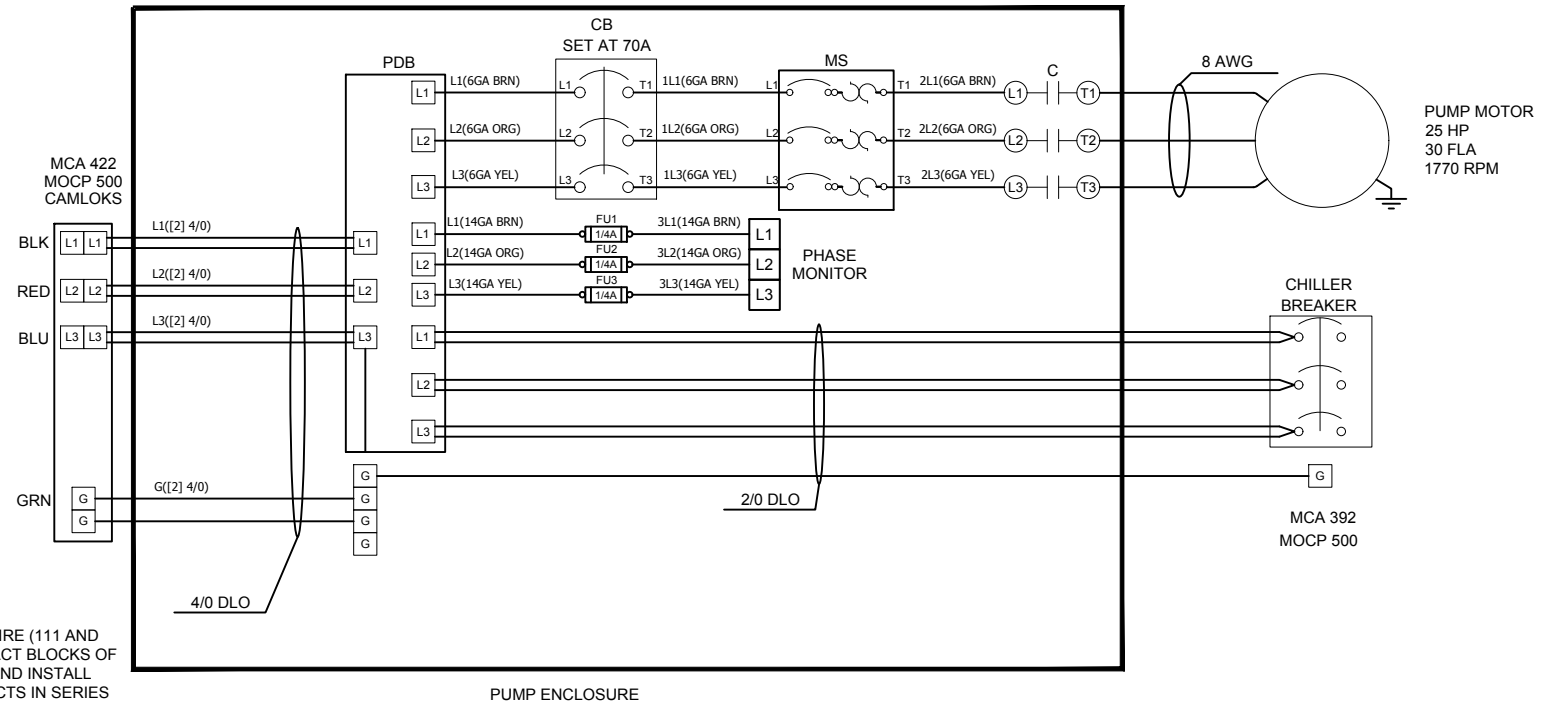


NOTE: ADD JUMPER FROM TERMINAL 15 AND 16 ON 1TB TERMINAL BOARD ON CHILLER.



NOTE: REMOVE WIRE (111 AND 211) FROM CONTACT BLOCKS OF UNIT SWITCH S1 AND INSTALL NO TIMER CONTACTS IN SERIES



NOTE: REMOVE JUMPER WIRE 1B FROM 18FU AND 19FU.

DANGER
HIGH VOLTAGE
TURN OFF POWER
BEFORE SERVICING

WHITE ON RED, TEXT SIZE 0.2" / 0.15"
LOCATION: RIGHT TOP OF OUTSIDE DOOR

CAUTION
RISK OF ELECTRIC SHOCK
MORE THAN ONE DISCONNECT
SWITCH MAY BE REQUIRED TO
DE-ENERGIZE THE EQUIPMENT
BEFORE SERVICING.

WHITE ON RED, TEXT SIZE 0.2" / 0.15"
LOCATION: RIGHT TOP OF OUTSIDE DOOR

USE COPPER
CONDUCTOR ONLY.
60C (140F)
3.5-5.5 LBS. IN.
TORQUE

BLACK ON WHITE, TEXT SIZE 0.15"
LOCATION: BACK PANEL ON FIELD SIDE OF TERMINAL BLOCK STRIP

USE COPPER
CONDUCTOR ONLY.
60C (140F)
INCOMING LUG 375
LBS. IN. TORQUE

BLACK ON WHITE, TEXT SIZE 0.15"
LOCATION: BACK PANEL ON FIELD SIDE OF TERMINAL BLOCK STRIP

ENCLOSURE RATING: TYPE 1
MAX VOLTAGE: 480VAC
PHASE: 3
FREQUENCY: 60Hz
SHORT CIRCUIT CURRENT: 5KAIC
RMS SYMMETRICAL: 480VAC
LARGEST MOTOR FLA:
TOTAL PANEL FLA:
MFG DATE: XX/XX/XX

LOCATION: EXTERIOR DOOR INSIDE WALL

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
- 24VAC PHASE A - RED NEUTRAL - BROWN

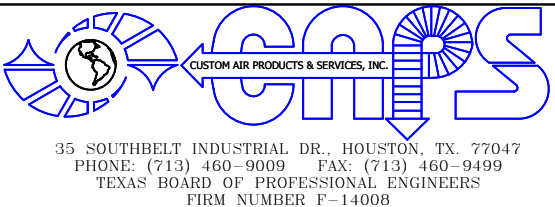
INTRINSICALLY SAFE WIRING 18AWG LIGHT BLUE AND MUST BE SEPARATED FROM OTHER WIRING BY MINIMUM OF 2". IF CABLE USED IT MUST BE SHIELDED.

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.

REV#	DATE	DESIGNER	DESCRIPTION
0	04/03/2018	B. LANDRY	FOR CUSTOMER'S APPROVAL
1	04/09/2018	B. LANDRY	ISSUE FOR CONSTRUCTION



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APPROVER: _____ DATE: _____

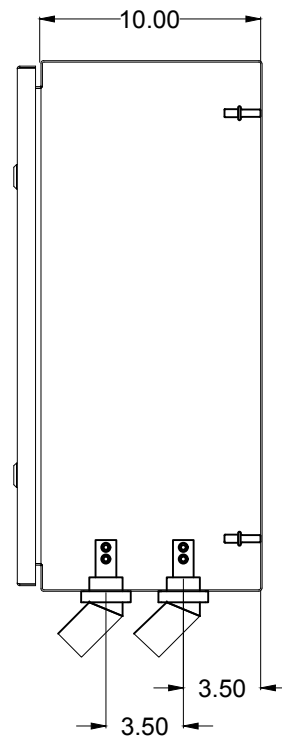
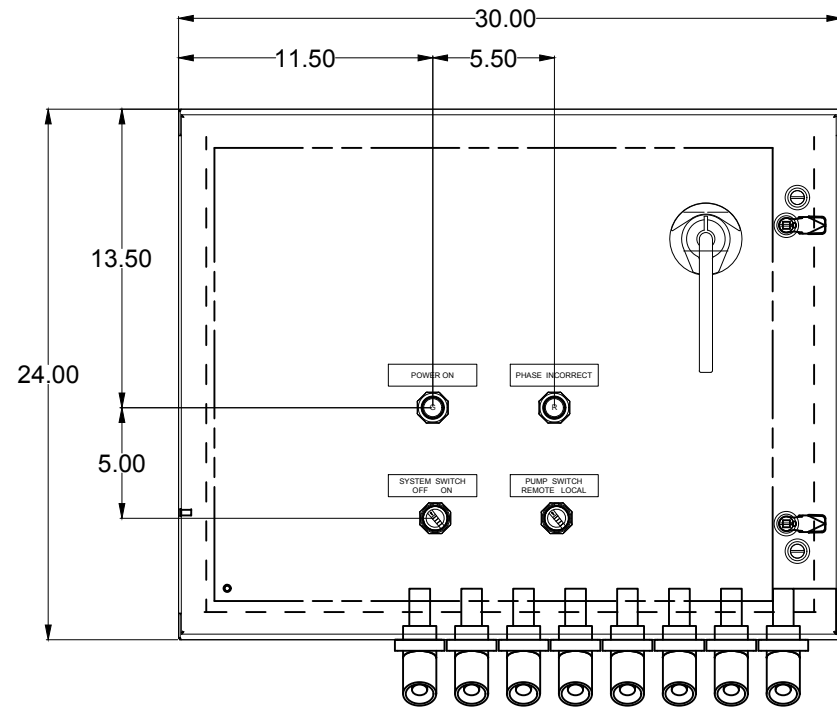
CAPS NO.: 18F-0177
DRAWING: E1
DRAWN BY: B. LANDRY
DATE: 04/03/2018

CUST. PO#: 1087073
SHEET: 1 OF 4
CHECKED BY: DAVID NGUYEN
DATE: 04/09/2018

SIZE: B
REV: 1
APPROVED BY: LARRY NOVAK
DATE: 04/09/2018

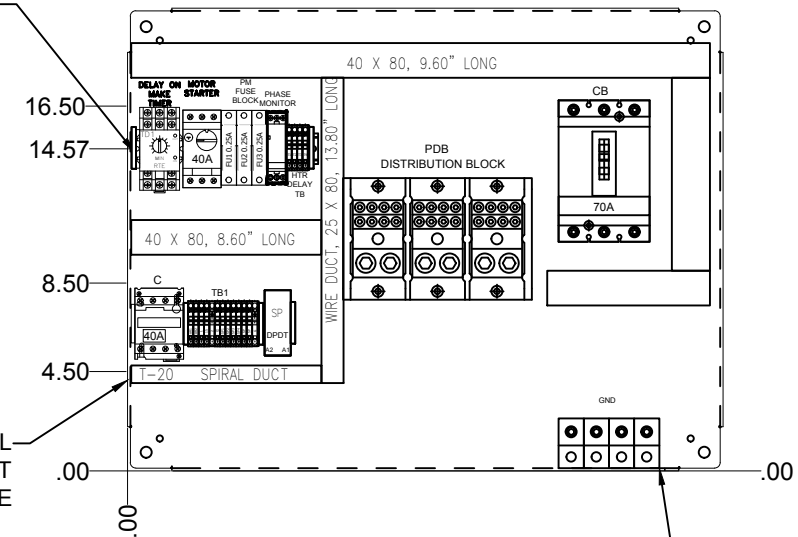
CUSTOMER: HERC

227 TON SKID MOUNTED & CAGED CHILLER
GALV. SKID, GALV. CAGE, 4" CONNECTIONS
600 GPM @ TDH, 460V/3PH/60HZ GP
ELECTRICAL DESIGN
POWER SCHEMATIC

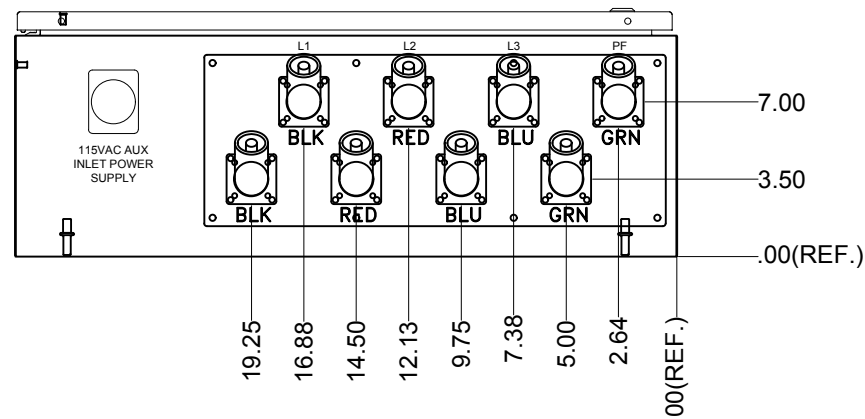


8.5 DIN RAIL
(2)10-32X1/2TT
ALIGN W/ EDGE

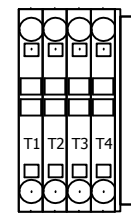
8.0 TALL DIN RAIL
(2)10-32X1/2TT
ALIGN W/ EDGE



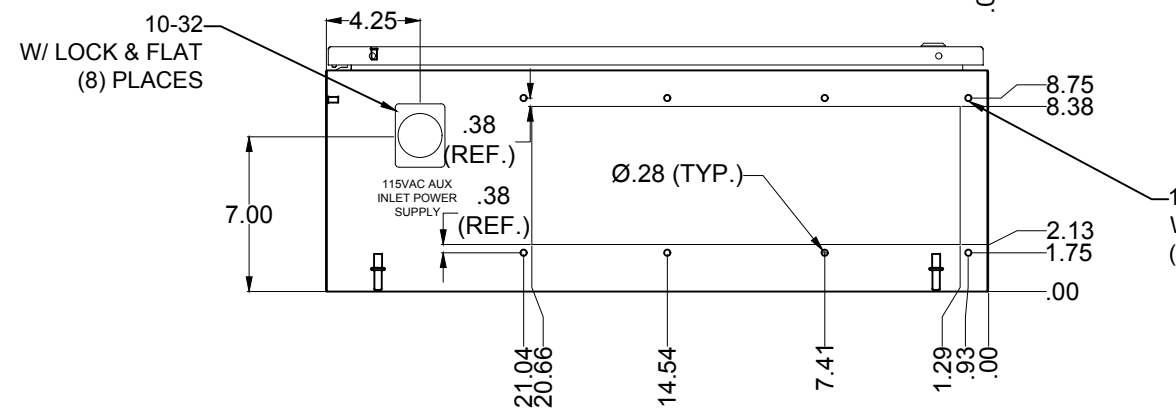
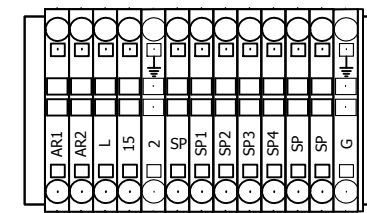
(2)3/8-16X7/8
W/FLAT & LOCK



HTR DELAY TB



TB1



CUTOUT DETAIL

1/4-20 KEPS
W/ FLAT
(8) PLACES

NOTES:

1. TERMINAL MARKER FOR TERMINALS MARKED "SP" WILL BE BLANK.
2. EACH DEVICE TO HAVE (2) LABELS. ONE ON DEVICE, ONE ON PANEL BEHIND DEVICE.

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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

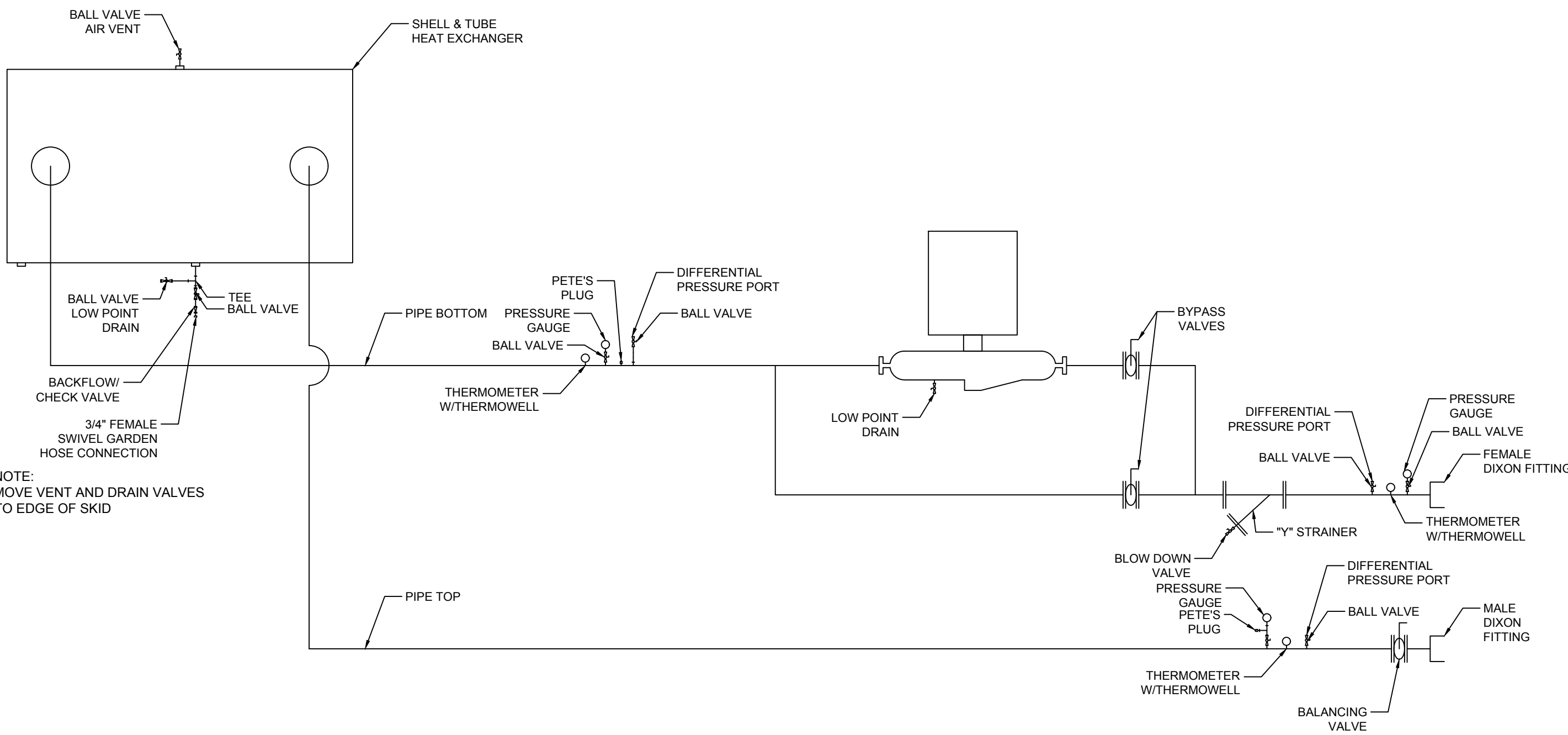
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APPROVER: _____ DATE: _____

CAPS NO.:	DRAWING:	DRAWN BY:	DATE:
18F-0177	E2	B. LANDRY	04/03/2018
CUST. PO#:	SHEET:	CHECKED BY:	DATE:
1087073	2 OF 4	DAVID NGUYEN	04/09/2018
SIZE:	REV:	APPROVED BY:	DATE:
B	1	LARRY NOVAK	04/09/2018

CUSTOMER:	HERC
227 TON SKID MOUNTED & CAGED CHILLER GALV. SKID, GALV. CAGE, 4" CONNECTIONS 600 GPM @ TDH, 460V/3PH/60HZ GP ELECTRICAL DESIGN PANEL LAYOUT DIAGRAM	



NOTE:
MOVE VENT AND DRAIN VALVES
TO EDGE OF SKID

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CAPS NO.:	DRAWING:	DRAWN BY:	DATE:
18F-0177	E3	B. LANDRY	04/03/2018
CUST. PO#:	SHEET:	CHECKED BY:	DATE:
1087073	3 OF 4	DAVID NGUYEN	04/09/2018
SIZE:	REV:	APPROVED BY:	DATE:
B	1	LARRY NOVAK	04/09/2018

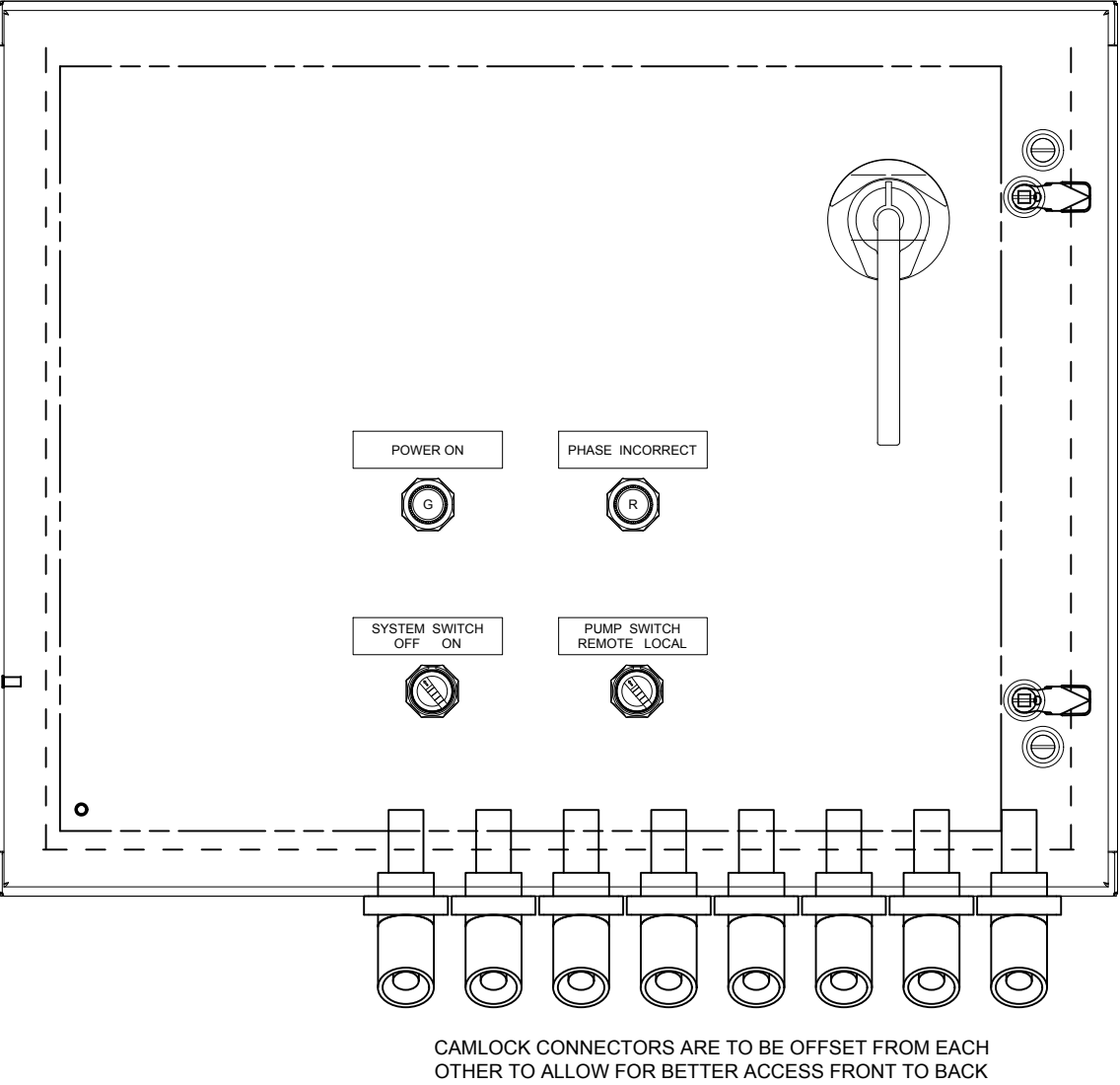
CUSTOMER: **HERC**

**227 TON SKID MOUNTED & CAGED CHILLER
GALV. SKID, GALV. CAGE, 4" CONNECTIONS
600 GPM @ TDH, 460V/3PH/60HZ GP
ELECTRICAL DESIGN
PIPING & INSTRUMENTATION DIAGRAM**

SEQUENCE OF OPERATION

The system is placed into initial operation as follows:

- Turn Master Switch and Pump Switch to "OFF"
- Turn Pump and Chiller Circuit Breakers "ON"
 - If the "Phase Incorrect" light is on, turn off the circuit breakers; 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 "Main Power On" light is on and the "Phase Incorrect" light is off, turn Master Switch to "ON": Chiller will be ready for Crankcase Heater pre-heat and can be operated after 60 minute time delay
- Turn Pump Switch to "ON"
- Turn Chiller Switch to "ON" then set chilled leaving water setpoint
- To shut down Chiller and Pump:
 - 1- Raise setpoint to 70F
 - 2- Turn off Chiller Switch
 - 3- Turn off Pump Switch
 - 4- Turn off Master Switch



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 APPROVER: _____ DATE: _____

CAPS NO.: 18F-0177	DRAWING: E4	DRAWN BY: B. LANDRY	DATE: 04/03/2018
CUST. PO#: 1087073	SHEET: 4 OF 4	CHECKED BY: DAVID NGUYEN	DATE: 04/09/2018
SIZE: B	REV: 1	APPROVED BY: LARRY NOVAK	DATE: 04/09/2018

CUSTOMER: **HERC**

**227 TON SKID MOUNTED & CAGED CHILLER
 GALV. SKID, GALV. CAGE, 4" CONNECTIONS
 600 GPM @ TDH, 460V/3PH/60HZ GP
 ELECTRICAL DESIGN
 SEQUENCE OF OPERATION**

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