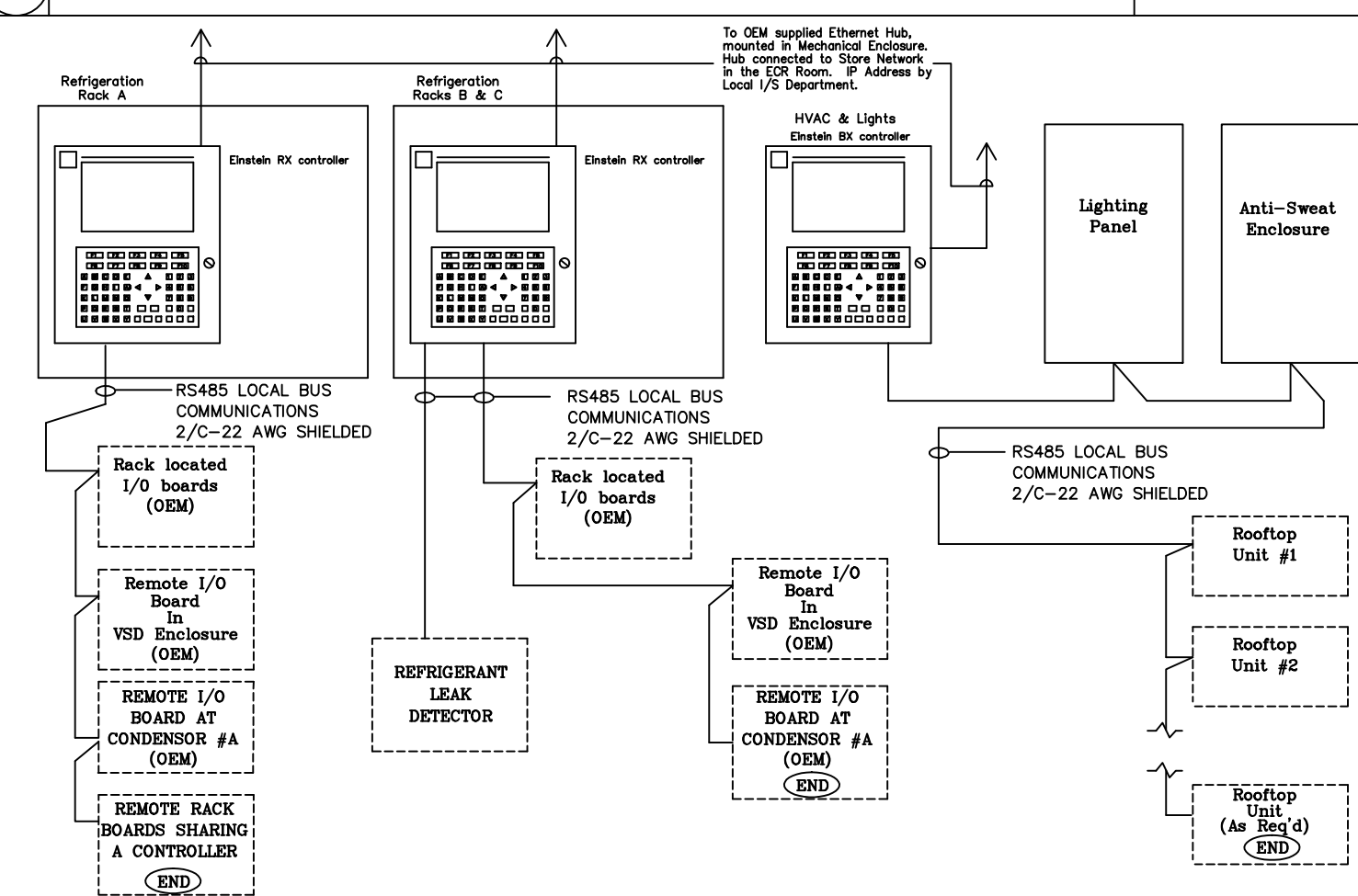


1 ENERGY MANAGEMENT SYSTEM REQUIREMENTS

CPC CONTROLS TAKEOFF			
Kroger Item #	Description	Supplier Part ID	Qty
K-0008846	2-8RO board wired 24V out and enclosure	810-2036	1
K-0008848	24V Transformer, 50VA 120/208/240V Center Tap - Class 2	640-0056	1
K-0052368	Bacharach 16Ch HGM MZ, Sk 1,000 Tubing, 10 High Flow fittings, 2 & 3 way splitter connections with time end filter assembly, Machine room blinder with technical bulletins and parts guide (Includes Filter Ends)	3015-KIT	1
K-0052371	Washdown 2-box for filter ends.	3015-5748	4
K-0052370	Tubing - 1,000' roll (Not for RVH)	15100	EXTRA IF REQ'D
K-0052372	Line End Filter Assembly (Includes filter & tubing connection)	3015-3420	EXTRA IF REQ'D
K-0052397	TYPE BLUE HORN STROBE AC/DC 24V 8685TRB-AQ	BLUE HORN STROBE	1 FOR OFFICES, 1 NEAR LOU, 1 PER MACH ROOM, 1 PER BOX (CODE MAY REQUIRE 2 PER BOX, INSIDE AND OUTSIDE)
LIGHTING CONTACTOR CONTROL			
Kroger Item #	Description	Supplier Part ID	Qty
K-0008612	2-MultiFlex 88 boards and 13x11 enclosure, 2 light level sensors	810-1013	1
K-0019685	24V Transformer, 80VA 120/208/240V Center Tap - Class 2	640-0080	1
LIGHTING DIMMING CONTROL			
Kroger Item #	Description	Supplier Part ID	Qty
K-0008853	1-8840 No Cards (For upgrade of older E3 and RMCC Units)	845-2400	AS REQ'D
K-0007180	Fluorescent Dimmer Kit board after split	203-5751	2
K-0019685	24V Transformer, 80VA 120/208/240V Center Tap - Class 2	640-0080	1
BUILDING CONTROL			
Kroger Item #	Description	Supplier Part ID	Qty
K-0008729	EZE B8400 No Cards (For upgrade of older E3 and RMCC Units)	845-2400	AS REQ'D
K-0008718	EZE B8400 No Cards (For upgrade of older E3 and RMCC Units)	845-2400	AS REQ'D
K-0008862	Indoor Humidity Sensor (2% L2VDC)	809-6590	1 PER RTU
K-0008821	Single Gang Box Space Temp Sensor	510-2001	2
K-0008720	Indoor CO2 0-2000 PPM w/o Display 24VAC	501-2008	1
K-0008852	Immersion Temp probe, 8 inch length 3/4 inch-14 threads, 35	851-1004	1
K-0008860	PMAC II 28 Channel, 16 Amp per Channel (APPLIED WHEN WITH SWEATS ARE SEPARATED AT THE CASE, AND STORE HAS AN EXISTING CPC)	501-1004	1
K-0008819	20' Green General Purpose Temp Sensor	501-1322	1 PER BOX

KEY NOTE	DESCRIPTION	WIRE TYPE	
		PLENUM	NON-PLENUM
1	WAIN CONNECTION	BELEN #153P #4-8 CATEGORY-5 CABLE OR APPROVED EQUAL	BELEN #153P #4-8 CATEGORY-5 CABLE OR APPROVED EQUAL
2	RS-485 NETWORK	BELEN #807H #22-2 SHIELDED CABLE OR APPROVED EQUAL	BELEN #807H #22-2 SHIELDED CABLE OR APPROVED EQUAL
3	ANALOG/DIGITAL TEMPERATURE SENSOR/INPUT	BELEN #807H #22-2 SHIELDED CABLE OR APPROVED EQUAL	BELEN #807H #22-2 SHIELDED CABLE OR APPROVED EQUAL
4	DEFOIST TERMINATION SENSOR	BELEN #807H #22-2 SHIELDED CABLE OR APPROVED EQUAL	BELEN #807H #22-2 SHIELDED CABLE OR APPROVED EQUAL
5	RELATIVE HUMIDITY SENSOR	BELEN #807H #22-2 SHIELDED CABLE OR APPROVED EQUAL	BELEN #807H #22-2 SHIELDED CABLE OR APPROVED EQUAL
6	LIGHT LEVEL SENSOR	BELEN #807H #22-2 SHIELDED CABLE OR APPROVED EQUAL	BELEN #807H #22-2 SHIELDED CABLE OR APPROVED EQUAL
7	OUTDOOR TEMPERATURE SENSOR /PROP LEO SENSOR	BELEN #807H #22-2 SHIELDED CABLE OR APPROVED EQUAL	BELEN #807H #22-2 SHIELDED CABLE OR APPROVED EQUAL
8	NOT USED		
9	LIGHTING CONTROL	#14 TWISTED PAIR PER LIGHTING CONTACTOR (PLENUM RATED)	#14 TWISTED PAIR PER LIGHTING CONTACTOR (PLENUM RATED)
10	REFRIGERATION SOLINOID VALVE	BELEN #807H #16-2 SHIELDED CABLE (PLENUM RATED)	BELEN #807H #16-2 SHIELDED CABLE
11	NOT USED		
12	HVAC STAGING CONTROL	2-#16-10 MULTI-CONDUCTOR CABLE (PLENUM RATED)	2-#16-10 MULTI-CONDUCTOR CABLE
13	UNIT HEATER CONTROL	#14 TWISTED PAIR (PLENUM RATED)	#14 TWISTED PAIR
14	LINE VOLTAGE IN CONDUIT	PER NEC & MANUFACTURER'S GUIDELINES	

3 ENERGY MANAGEMENT WIRING SCHEDULE



2 CONTROLS TAKEOFF

SCALE: NONE

4

SCALE: NONE

- FOR REFERENCE ONLY -  
CONSTRUCTION GUIDELINES

7 GENERAL SYMBOLS

SCALE: NONE

SYMBOL	DESCRIPTION	PNET #
1	REFRIGERATION CIRCUIT DESIGNATION	-----
2	DEFOIST TERMINATION THERMOSTAT	DEM
3	ANALOG TEMPERATURE SENSOR	DEM
4	ANALOG TEMPERATURE SENSOR (HVAC)	(CPC) 000-0004009
5	ANALOG RELATIVE HUMIDITY SENSOR	(CPC) 000-0004010 (INDOOR) (CPC) 000-0004011 (OUTDOOR)
6	LIGHT LEVEL SENSOR	(CPC) (INDOOR & OUTDOOR) 000-0004007
7	AMBIENT TEMPERATURE SENSOR / SHIELD	000-0004009 / 000-0004010
8	DOOR SWITCH	
9	PHASE MONITOR	DEM
10	SMOKE DETECTOR	DEM
11	CLEAN POWER FIELD INSTALLED BY EC	-----
12	KEY NOTE SYMBOL	-----
13	LOCAL DOOR ALARM	-----
14	LOCAL REFRIGERATION ALARM	-----
15	IMMEDIATE TEMPERATURE SENSOR NUMBER	(CPC) 000-0004010
16	(C) INTERNAL RTU MIXED AIR TEMPERATURE SENSORS	N/A SUPPLIED BY RTU VENDOR
17	(C) INTERNAL RTU MIXED AIR TEMPERATURE SENSORS	N/A SUPPLIED BY RTU VENDOR
18	AIR FLOW / SAIL PROOFING SWITCH	N/A SUPPLIED BY RTU VENDOR
19	SUCION STOP SOLINOID	-----
20	EVAPORATOR PRESSURE REGULATOR	-----

8 ENERGY MANAGEMENT NOTES

SCALE: NONE

ATTENTION DESIGN ENGINEERS:

THIS DRAWING REPRESENTS A TYPICAL STORE, AND SERVES AS A TEMPLATE FOR DEVELOPING JOB SPECIFIC DRAWINGS. YOUR DRAWINGS SHALL REFLECT THE DESIGN REQUIREMENTS FOR YOUR SPECIFIC STORE, AND SHALL USE THE LAYOUT ESTABLISHED BY THIS TEMPLATE. USE OF THE TEMPLATE IS NECESSARY TO SUPPORT THE DESIGN AND PROCUREMENT SYSTEMS WITHIN THE KROGER COMPANY.

ISSUED FOR: BIDS AND PERMITS  
00% OWNER REVIEW

03/13/2024  
02/08/2024

PROPOSED MINOR INTERIOR  
REMODEL FOR:

STORE NO. D-365  
3616 WASHTENAW AVE  
ANN ARBOR, MI 48104

THE KROGER CO. OF MICHIGAN

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ENERGY MGMT RISER AND NOTES

project no.  
23058

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EM-1

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