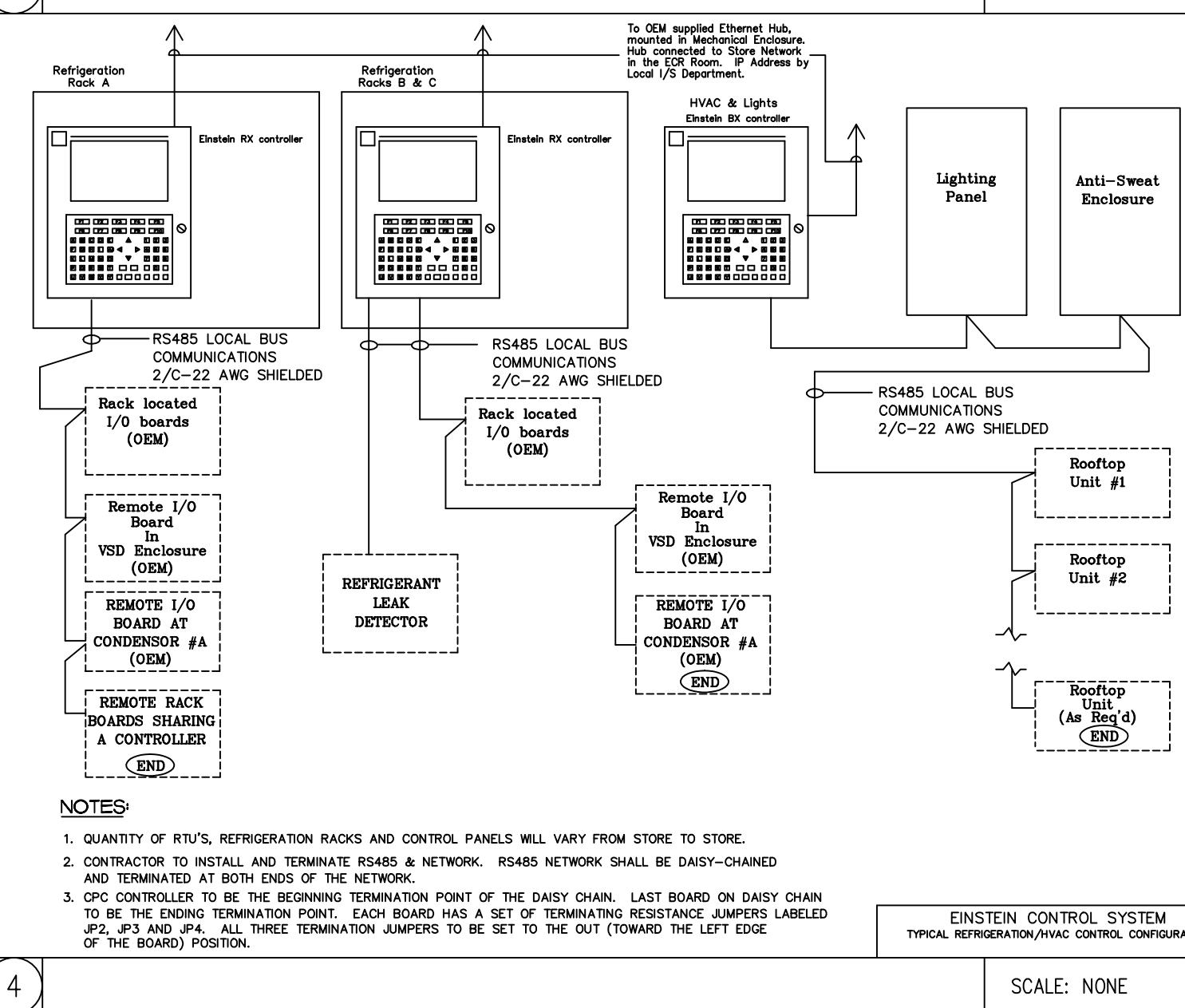


1 ENERGY MANAGEMENT SYSTEM REQUIREMENTS

CPC CONTROLS TAKEOFF			
Refrigerant 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 line 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			
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			
K-0008853	1-8840 No Cards (For upgrade of older E1 and RMCC Units)	845-2400	AS REQ'D
K-0008852	Fluorescent Dimmer Kit board after split	203-5751	2
K-0008821	Single Gang Box Space Temp Sensor	809-6590	1 PER RTU
K-0008720	Indoor Humidity Sensor (2% L2VDC)	510-2001	2
K-0008852	Immersion Temp probe, 8 inch length 3/4 inch-14 threads, 35	501-2008	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)	851-1004	1
K-0008819	20' Green General Purpose Temp Sensor	501-1322	1 PER BOX

KEY NOTE	DESCRIPTION	WIRE TYPE	
		PLENUM	NON-PLENUM
1	W.A.N. 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 #804T #22-2 SHIELDED CABLE OR APPROVED EQUAL	BELEN #804T #22-2 SHIELDED CABLE OR APPROVED EQUAL
3	ANALOG/DIGITAL TEMPERATURE SENSOR/INPUT	BELEN #807N #22-2 SHIELDED CABLE OR APPROVED EQUAL	BELEN #807N #22-2 SHIELDED CABLE OR APPROVED EQUAL
4	DEFOIST TERMINATION SENSOR	BELEN #807N #22-2 SHIELDED CABLE OR APPROVED EQUAL	BELEN #807N #22-2 SHIELDED CABLE OR APPROVED EQUAL
5	RELATIVE HUMIDITY SENSOR	BELEN #807N #22-2 SHIELDED CABLE OR APPROVED EQUAL	BELEN #807N #22-2 SHIELDED CABLE OR APPROVED EQUAL
6	LIGHT LEVEL SENSOR	BELEN #807N #22-2 SHIELDED CABLE OR APPROVED EQUAL	BELEN #807N #22-2 SHIELDED CABLE OR APPROVED EQUAL
7	OUTDOOR TEMPERATURE SENSOR /PROP LEO SENSOR	BELEN #807N #22-2 SHIELDED CABLE OR APPROVED EQUAL	BELEN #807N #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 #807N #16-2 SHIELDED CABLE (PLENUM RATED)	BELEN #807N #16-2 SHIELDED CABLE (PLENUM RATED)
11	NOT USED		
12	HVAC STAGING CONTROL	2-#16-10 MULTI-CONDUCTOR CABLE (PLENUM RATED)	2-#16-10 MULTI-CONDUCTOR CABLE (PLENUM RATED)
13	UNIT HEATER CONTROL	#14 TWISTED PAIR (PLENUM RATED)	#14 TWISTED PAIR (PLENUM RATED)
14	LINE VOLTAGE IN CONDUIT	PER NEC & MANUFACTURER'S GUIDELINES	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	IMMERSIBLE 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.

BIDS AND PERMITS
Issued for: **00% OWNER REVIEW**
06/12/2025
06/18/2026

PROPOSED MINOR INTERIOR REMODEL FOR:
Kroger
STORE NO. D-663
26180 GRATIOT AVE.
ROSEVILLE, MI 48066
THE KROGER CO. OF MICHIGAN

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ENERGY MGMT RISER AND NOTES
project no. **24007** sheet no. **EM-1**

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