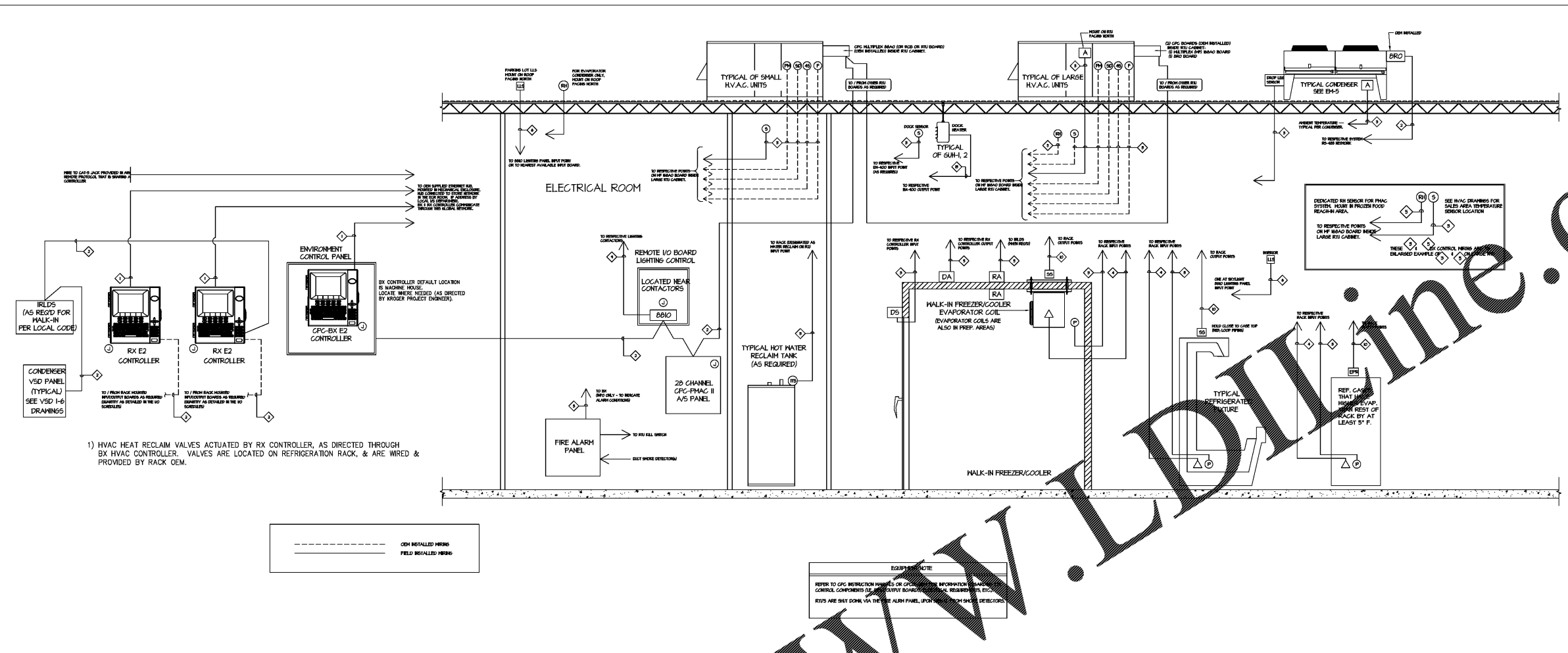


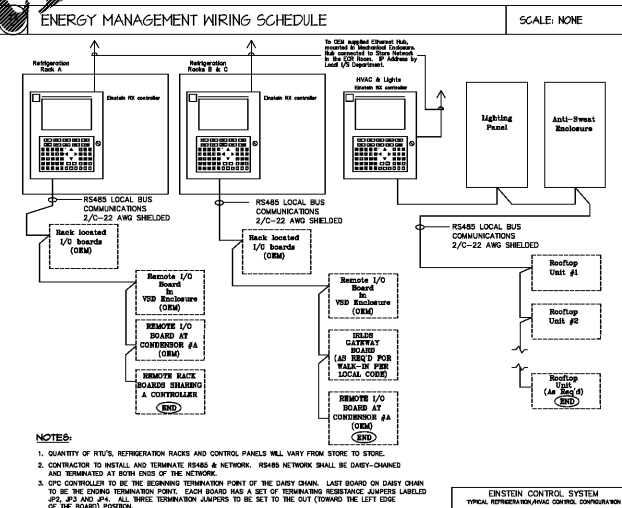
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1 ENERGY MANAGEMENT SYSTEM REQUIREMENTS

Item #	Description	Supplier Part ID	Qty
CONTROLS TAKEOFF			
REFRIGERATION LEAK DETECTION			
K-0008846	2.800 board series 24V ac and enclosure	310-2016	1
K-0008823	Gateway BUS	310-2760	1
K-0008848	240 Transformer, 50VA 120/240/120V Center Tap, Class 2	340-0250	1
K-0008848	Backpack, Tech HV/MVAC, 5x 1000' Tubing, 30 High Flow Fittings, 2.6 x 1/4" splitter connections with line end filter assembly, Machine room binder with technical bulletins and parts guide (Includes Filter End)	3015-KT	1
K-0002271	Washdown 1 bay for filter ends	3015-5748	4
K-0002270	Tubing - 1000' roll (not for NH3)	110100	EXTRA IF REQ'D
K-0002272	Line End Filter Assembly (Includes Filter & tubing connection)	3015-3420	EXTRA IF REQ'D
K-0002297	TYPE BLUE HORN STROBE MTW9-2475W-WW	BLUE HORN STROBE	1 FOR OFFICES, 1 MECH ROOM, 1 PER MECH ROOM, 1 PER BOX (CODE MAY REQUIRE 2 PER BOX, INSIDE AND OUTSIDE)
LIGHTING FACTOR CONTROL			
K-0008812	2-8x4x5 Fluor. 88 boards and 13x21 enclosure, 2 light level sensors	510-1013	1
K-0008845	24V Transformer, 50VA 120/240/120V Center Tap, Class 2	340-0250	1
LIGHTING DIMMING CONTROL			
K-0008813	3-8840 board and enclosure	510-1100	1
K-0002280	Fluorescent Dimmer Kit/board/enclosure	2400	2
K-0008845	24V Transformer, 50VA 120/240/120V Center Tap, Class 2	340-0250	1
BUILDING CONTROL			
K-0008808	227 80000-400 Cards (for use with 81 and 81AC Units)	845-1400	AS REQ'D
K-0008822	Indoor Thermostat (2%, 12VDC)	500-0753	2
K-0008821	Single Pack Temp Sensor	500-0750	1 PER RTU
K-0008820	Indoor Temp Sensor	510-0001	2
K-0008819	Indoor Temp Sensor	501-0008	2
K-0008818	Indoor Temp Sensor	501-0008	2
K-0008817	Indoor Temp Sensor	501-0008	2
K-0008816	Indoor Temp Sensor	501-0008	2
K-0008815	Indoor Temp Sensor	501-0008	2
K-0008814	Indoor Temp Sensor	501-0008	2
K-0008813	Indoor Temp Sensor	501-0008	2

KEY NOTE	DESCRIPTION	PLenum	WIRE TYPE	PLenum
1	MAIN CONNECTION	BELDEN R900P K24-0 CABLE OR APPROVED EQUAL	BELDEN R900P K24-0 CABLE OR APPROVED EQUAL	BELDEN R900P K24-0 CABLE OR APPROVED EQUAL
2	RS-485 NETWORK	BELDEN R900P K24-0 CABLE OR APPROVED EQUAL	BELDEN R900P K24-0 CABLE OR APPROVED EQUAL	BELDEN R900P K24-0 CABLE OR APPROVED EQUAL
3	ANALOG/DIGITAL TEMPERATURE SENSOR/INPUT	BELDEN R900P K24-0 CABLE OR APPROVED EQUAL	BELDEN R900P K24-0 CABLE OR APPROVED EQUAL	BELDEN R900P K24-0 CABLE OR APPROVED EQUAL
4	DEPOSIT TEMPERATURE SENSOR	BELDEN R900P K24-0 CABLE OR APPROVED EQUAL	BELDEN R900P K24-0 CABLE OR APPROVED EQUAL	BELDEN R900P K24-0 CABLE OR APPROVED EQUAL
5	RELATIVE HUMIDITY SENSOR	BELDEN R900P K24-0 CABLE OR APPROVED EQUAL	BELDEN R900P K24-0 CABLE OR APPROVED EQUAL	BELDEN R900P K24-0 CABLE OR APPROVED EQUAL
6	LIGHT LEVEL SENSOR	BELDEN R900P K24-0 CABLE OR APPROVED EQUAL	BELDEN R900P K24-0 CABLE OR APPROVED EQUAL	BELDEN R900P K24-0 CABLE OR APPROVED EQUAL
7	OUTDOOR TEMPERATURE SENSOR/UP LES SENS	BELDEN R900P K24-0 CABLE OR APPROVED EQUAL	BELDEN R900P K24-0 CABLE OR APPROVED EQUAL	BELDEN R900P K24-0 CABLE OR APPROVED EQUAL
8	NOT USED			
9	LIGHTING CONTROL	84 THREADED PAIR PER LIGHTING CONDUCTOR PLenum	84 THREADED PAIR PER LIGHTING CONDUCTOR PLenum	84 THREADED PAIR PER LIGHTING CONDUCTOR PLenum
10	REFRIGERATION SOLIDROCK VALVE	BELDEN R900P K24-0 CABLE OR APPROVED EQUAL	BELDEN R900P K24-0 CABLE OR APPROVED EQUAL	BELDEN R900P K24-0 CABLE OR APPROVED EQUAL
11	NOT USED			
12	STAIRS CONTROL	2-48-40 MULTI-CONDUCTOR CABLE	2-48-40 MULTI-CONDUCTOR CABLE	2-48-40 MULTI-CONDUCTOR CABLE
13	HEAT RECLAIM CONTROL	84 THREADED PAIR PLenum	84 THREADED PAIR PLenum	84 THREADED PAIR PLenum
14	NOT USED			
15	CONDUIT	PER REC 4 MANUFACTURER'S GUIDELINES		



7 GENERAL SYMBOLS

SCALE: NONE

- THE BIDDING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE CORRECT INSTALLATION OF THE ENERGY MANAGEMENT SYSTEM. THE BIDDING CONTRACTOR SHALL BE RESPONSIBLE FOR THE START-UP, TROUBLESHOOTING AND PROGRAMMING ADJUSTMENT OF THE ENERGY CONTROL SYSTEM. BELDEN REFRIGERATION RACKS AND LIMITED CONTROL.
- THE BIDDING CONTRACTOR SHALL PROVIDE ALL CONNECTIONS BETWEEN THE ENERGY MANAGEMENT SYSTEM AND ELECTRICAL TO INSURE THAT ALL SYSTEMS ARE PROPERLY CONTROLLED AND THAT ALL CONTROL POINTS ARE ACCURATELY LOCATED. THE BIDDING CONTRACTOR SHALL PROVIDE ALL WIRING SUPPORT TO BE CONSIDERED IN THE LAYOUT OF THE ENERGY MANAGEMENT SYSTEM. THE BIDDING CONTRACTOR SHALL PROVIDE ALL WIRING SUPPORT TO BE CONSIDERED IN THE LAYOUT OF THE ENERGY MANAGEMENT SYSTEM.
- FOR COMPLIANCE OF THE BIDDING CONTRACTOR SHALL PROVIDE ACCURATE AND COMPLETE AS-BUILT CONNECTIONS TO THE OWNER AND THE CONTRACTOR. THE BIDDING CONTRACTOR SHALL PROVIDE ALL CONNECTIONS BETWEEN THE ENERGY MANAGEMENT SYSTEM AND ELECTRICAL TO INSURE THAT ALL SYSTEMS ARE PROPERLY CONTROLLED AND THAT ALL CONTROL POINTS ARE ACCURATELY LOCATED. THE BIDDING CONTRACTOR SHALL PROVIDE ALL WIRING SUPPORT TO BE CONSIDERED IN THE LAYOUT OF THE ENERGY MANAGEMENT SYSTEM. THE BIDDING CONTRACTOR SHALL PROVIDE ALL WIRING SUPPORT TO BE CONSIDERED IN THE LAYOUT OF THE ENERGY MANAGEMENT SYSTEM.
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- REFER TO SPECIFICATIONS FOR INFORMATION REGARDING PICTURE, PAUSE, COLLAPSE, EXPAND, CONTRACT AND RECLAIM REQUIREMENTS.

2 CONTROLS TAKEOFF

4 ENERGY MANAGEMENT WIRING SCHEDULE

7 GENERAL SYMBOLS

8 ENERGY MANAGEMENT NOTES



NEW STORE
CONTROLS
INSTALLATION TEMPLATE

CURRENT PLAN DATE:	5/1/2015		
ORIGINAL PLAN DATE:	3/31/08		
OWNER:	MAD		
DESIGNER:	CREC		
REVISION:			
1	CTS	7	CTS
2	CTS	8	MAD
3	CTS		
4	CTS		
5	CTS		
6	SPF		
STANDARD PLOTTED BOARDS			
BUILDING STAFFS			
TOTAL SHELVING			
SALES AREA			
S.F. STORE BUILDING			
BASE STORE			
MEZZANINE			
DOCK / UTILITY			
ENERGY MANAGEMENT RISER AND NOTES			
STYL PACKAGE D			
EM-1			
CND FILED CON-INT-TEMP-ENL-ENG			