

WIRE LEGEND
 WIR-1010 (TAN CABLE 18-2, 20-2 TWISTED PAIR)
 WIR-2020 (BLUE CABLE 22-2 TWISTED PAIR)
 BELDEN 8719 (19-2 TWISTED PAIR)
 BELDEN 8771 (22-3 TWISTED PAIR)
 BELDEN 8771 (22-3 TWISTED PAIR)
 BELDEN 1120A (18-3 TWISTED PAIR)

NOTES
 1. ALL CABLE WIR-2020 UNLESS NOTED OTHERWISE.
 2. ALL CABLE FURNISHED AND INSTALLED BY EMS CONTRACTOR.

ONE-LINE REFLECTS THE INTENDED DESIGN BASED ON RELOCATED CASES AND EXISTING SYSTEM NUMBERS. VERIFY ALL EXISTING CONDITIONS AND LOCATION OF ALL EMS EQUIPMENT PRIOR TO ROUGH-IN.

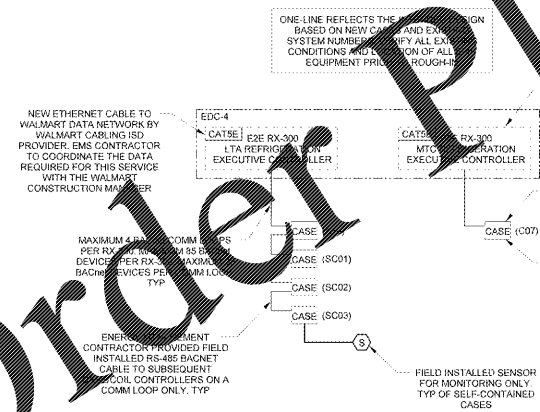
ALL CMS'S ARE EXISTING IN CASES BEING RELOCATED.

PROVIDE CONDUIT, FITTINGS, WIRE-TIES, CONNECTORS, LABELS, AND ANY OTHER MISC. PARTS NEEDED TO INSTALL AND START THE SYSTEM.

OWNER WILL FURNISH ALL MAJOR E.M.S. DEVICES (INCLUDING 24 VOLT TRANSFORMERS AND RELAYS).

CMS MODULE MOD COMM-C24V DC WIR-2020 AS REQUIRED FOR CASES BEING RELOCATED. TYP.

3 PARTIAL REFRIGERATION EMS ONE-LINE DIAGRAM
 NTS



ONE-LINE REFLECTS THE INTENDED DESIGN BASED ON NEW CASES AND EXISTING SYSTEM NUMBERS. VERIFY ALL EXISTING CONDITIONS AND LOCATION OF ALL EQUIPMENT PRIOR TO ROUGH-IN.

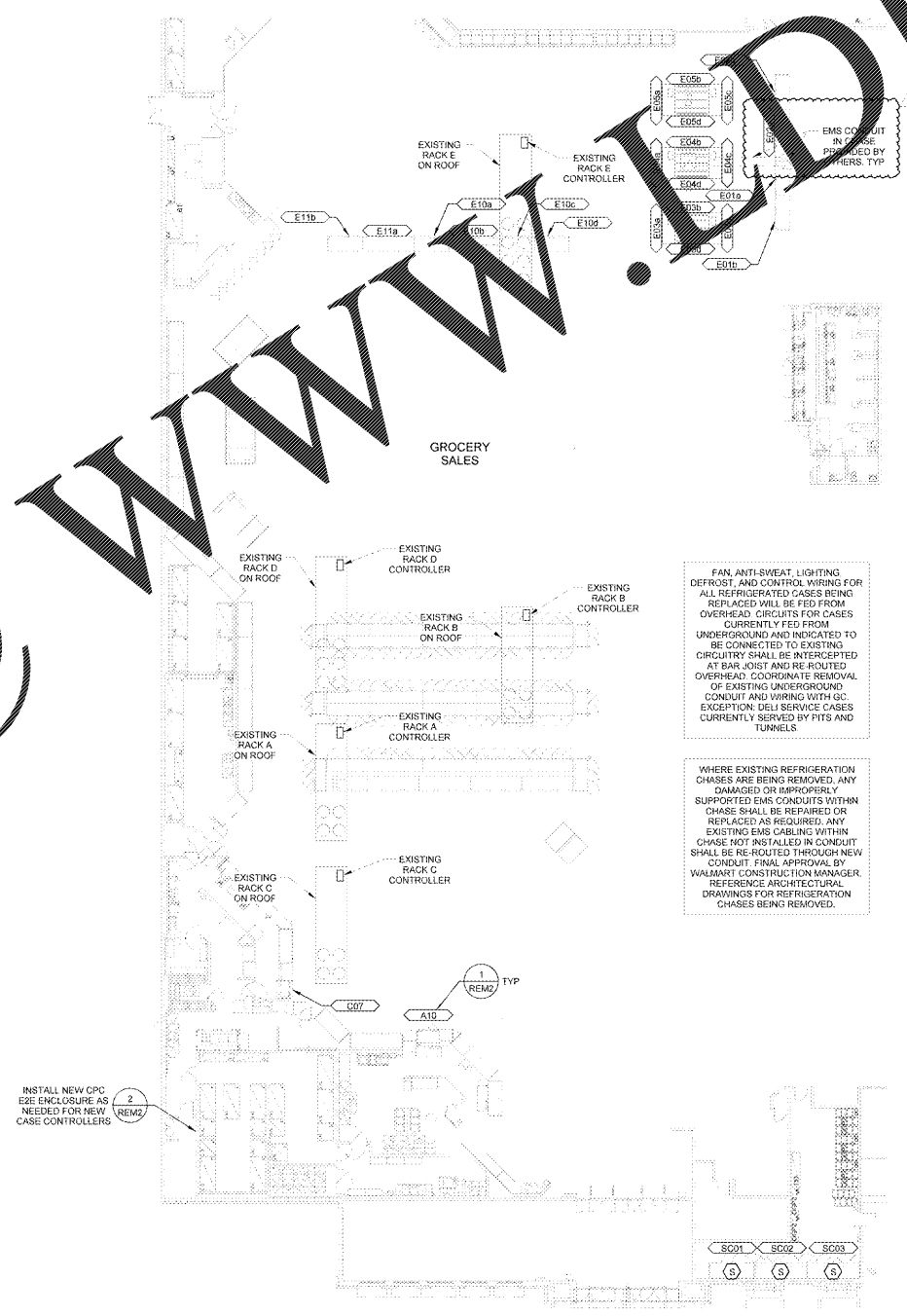
REF CASE CONTROLLER WIRING DETAIL TYP.

CASE CONTROLLER QUANTITY TO BE DETERMINED BY THE CASE MANUFACTURER. TYP.

EXECUTIVE GATEWAY - EZE RX-300	
COM2a	LEAK DETECTION COMM LOOP
COM2b	OPEN
COM4a	CASE/COIL CONTROLLER LOOP #1 / RACK CONTROLLER / W/O BOARD
COM4b	OPEN
COM5	SPORLANE(LI/WELL/CAREL/CPC) CASE/COIL CONTROLLER LOOP #3

NOTE: NOT ALL CONNECTIONS SHOWN ON THIS SCHEDULE ARE PRESENT AT EACH RACK CONTROLLER. REFER TO ONE-LINE DIAGRAM FOR CONNECTIONS SPECIFIC TO EACH RACK CONTROLLER.

2 REFRIGERATION EMS ONE-LINE DIAGRAM
 NTS



FAN, ANTI-SWEAT, LIGHTING DEFROST, AND CONTROL WIRING FOR ALL REFRIGERATED CASES BEING REPLACED WILL BE FED FROM OVERHEAD. CIRCUITS FOR CASES CURRENTLY FED FROM UNDERGROUND AND INDICATED TO BE CONNECTED TO EXISTING CIRCUITRY SHALL BE INTERCEPTED AT BAR JOIST AND RE-ROUTED OVERHEAD. COORDINATE REMOVAL OF EXISTING UNDERGROUND CONDUIT AND WIRING WITH GE. EXCEPTION: DELI SERVICE CASES CURRENTLY SERVED BY FITS AND TUNNELS.

WHERE EXISTING REFRIGERATION CHASES ARE BEING REMOVED, ANY DAMAGED OR IMPROPERLY SUPPORTED EMS CONDUITS WITHIN CHASE SHALL BE REPAIRED OR REPLACED AS REQUIRED. ANY EXISTING EMS CABLING WITHIN CHASE NOT INSTALLED IN CONDUIT SHALL BE RE-ROUTED THROUGH NEW CONDUIT. FINAL APPROVAL BY WALMART CONSTRUCTION MANAGER. REFERENCE ARCHITECTURAL DRAWINGS FOR REFRIGERATION CHASES BEING REMOVED.

1 REFRIGERATION ENERGY MANAGEMENT PLAN
 1/16" = 1'-0"

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT AS-BUILT CONDITIONS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELVES WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

24 HOURS PRIOR TO SHUTTING DOWN ANY REFRIGERATION SYSTEMS, HVAC SYSTEMS, OR ENERGY MANAGEMENT CONTROLS SYSTEMS, SEND E-MAIL TO NSRM@WALMART.COM. THE E-MAIL SHALL STATE WHAT, WHY, AND WHEN IT IS BEING SHUT DOWN AND HOW LONG IT IS ANTICIPATED TO BE DOWN. THEN SEND A FOLLOW UP E-MAIL TO NSRM@WALMART.COM AFTER THE WORK IS COMPLETE AND THE SYSTEM IS BACK UP AND RUNNING.

GENERAL REFRIGERATION EMS NOTES
 02.28.14 EHS

- EMS CONTRACTOR SHALL CONTACT THE EMS SUPPLIER TO OBTAIN A CURRENT MODULE CONFIGURATION PRINTOUT BEFORE TERMINATING SENSOR LEADS AT INPUT MODULES. THE REQUEST FOR THE CONFIGURATION PRINTOUT SHALL BE MADE PRIOR TO THE INSTALLATION OF EMS CABLES. WIRING TERMINATIONS SHALL BE LANCED ACCORDING TO THE EMS SUPPLIER CONFIGURATION SHEETS.
- EMS CONTRACTOR SHALL PROVIDE COMPLETED REFRIGERATION SENSOR INPUT VERIFICATION FORMS TO THE EMS SUPPLIER AT THE BEGINNING OF THE REFRIGERATION EQUIPMENT STARTUP. EMS INSTALLER SHALL PROVIDE ASSISTANCE TO THE EMS SUPPLIER FOR SPOT CHECKING OF SENSORS FOR ACCURACY.
- ALL EMS CABLE ON THE SALES FLOOR SHALL BE ROUTED IN CONDUIT AND CONCEALED FROM VIEW AND ROUGH-IN ALONGSIDE OTHER PIPING OR CONDUIT AS FAR AS POSSIBLE.
- EMS CONTRACTOR SHALL BE PRESENT AND AVAILABLE TO RESOLVE ISSUES AND PROVIDE STARTUP ASSISTANCE UNTIL RELEASED BY THE EMS SUPPLIER AND WALMART REFRIGERATION CONSTRUCTION COORDINATOR.
- DURING THE REFRIGERATION STARTUP, EMS CONTRACTOR SHALL COMPLETE ALL UNRESOLVED REFRIGERATION WORK PRIOR TO WORKING ON THE EMS INSTALLATION ITEMS.
- WHEN THE EMS SUPPLIER REQUESTS THE CONTRACTOR TO PERFORM REFRIGERATION, THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING CHECKS AND TEST TO ENSURE A FULLY FUNCTIONAL REFRIGERATION CONTROL SYSTEM. CONTACT THE EMS SUPPLIER FOR THE BLANK TEST VERIFICATION FORMS AND INSTRUCTIONS FOR COMPLETING AND TESTING VERIFICATION FORMS. TEST VERIFICATION FORMS SHALL BE TURNED IN TO THE WALMART MECHANICAL SERVICES MANAGER.
- REFER TO ARCHITECTURAL DRAWINGS FOR PIPING INSTALLATION AND SEALING REQUIREMENTS FOR DEVICES SHOWN ON COOLER/FREEZER PANELS. DO NOT INSTALL PIPING WITHIN COOLER/FREEZER PANELS.
- ROUTE ALL UTILITY SERVICE LINES (PIPES AND CONDUIT) WITHIN STUD WALLS WHEREVER POSSIBLE. ON COOLER/FREEZER PANELS IN FOOD PREP AREAS WHERE UTILITIES MUST BE EXPOSED, CONTRACTOR TO HAVE THE OPTION OF THE FOLLOWING:
 - SURFACE MOUNT UTILITIES WITH NON-CORROSIVE ANCHORS. SEAL BOTH SIDES OF PIPE/CONDUIT TO PANEL CONTINUOUSLY WITH SEALANT.
 - INSTALL UTILITIES 1/2" OFF FACE OF PANEL TO ALLOW FOR CLEANING. USE ONLY NON-CORROSIVE MATERIALS FOR SPACERS AND ANCHORS.
 - COVER UTILITIES WITH 20 GAUGE STAINLESS STEEL BENT PLATES MOUNTED TO WALL WITH NON-CORROSIVE ANCHORS. APPLY CONTINUOUS SEALANT ALONG EDGES AND JOINTS.
- REFERENCE ARCHITECTURAL DEMOLITION PLANS FOR FULL EXTENT OF DEMOLITION WORK REQUIRED.

REM SYMBOLS

LTAX	REFRIGERATION CIRCUIT
EZE RX-300	REFRIGERATION EXECUTIVE CONTROLLER
IRM	RACK INPUT MODULE
ROM	RACK OUTPUT MODULE
CIM	CASE INPUT MODULE
COM2	CASE INPUT MODULE
RIB	RELAY IN A BOX
S	CASE/COIL TEMPERATURE MODULE
IRM	UNIVERSAL INPUT MODULE
CR	CONTACTOR
IR	INTERFACE RELAY
CMS	CASE MANAGEMENT SYSTEM MODULE/ENCLOSURE
CASE	EMERSON CASE CONTROLLER
COL	EMERSON VALV-IN COIL CONTROLLER
---	NEW EQUIPMENT
---	EXISTING EQUIPMENT
---	FACILITY INSTALLED EQUIPMENT
---	EQUIPMENT TO BE DEMOLISHED

EMS EQUIPMENT SALVAGE REQUIREMENTS
 12.19.14 EHS

ALL DEMOLISHED NOVART EMS EQUIPMENT SHALL BE RETURNED TO WALMART MECHANICAL SERVICES CONSTRUCTION MANAGER. EQUIPMENT TO BE RETURNED INCLUDES EXECUTIVE CONTROLLER(S), IOM(S), CIMS(S), CCMS(S), ETC. PROVIDE DOCUMENTATION FOR ALL EQUIPMENT REMOVED IN ACCORDANCE WITH SPECIFICATIONS AND REQUIRED CLOSE-OUT DOCUMENTS.

SHEET ADDED TO SET

NOTE: ALL WORK ON THIS SHEET IS TO BE COMPLETED BY A WALMART APPROVED CONTRACTOR.



RETAIL DESIGN COLLABORATIVE
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STIPULATION FOR THE CONTRACTOR TO VERIFY THE EXISTING CONDITIONS AND LOCATION OF ALL EMS EQUIPMENT PRIOR TO ROUGH-IN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES HAVING JURISDICTION OVER THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES HAVING JURISDICTION OVER THE PROJECT.

CONSULTANTS
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143 SGPOR
 17-127-25 | PHOTO:
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Remodel Photo

ISSUE BLOCK

1	REV #1	04/16/18
2	REV #2	04/25/18

CHECKED BY: WRK
 DRAWN BY: RGP
 PHOTO CYCLE: 02/23/18
 DOCUMENT DATE: 04/10/18
 BS PROJECT NO: 19532

This document originally issued and prepared by
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 or 04252918
 This document should not be considered a contract document.
 NOT FOR CONSTRUCTION

REFRIGERATION ENERGY MANAGEMENT PLAN

SHEET: REM1