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.

EMS EQUIPMENT SALVAGE REQUIREMENTS

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

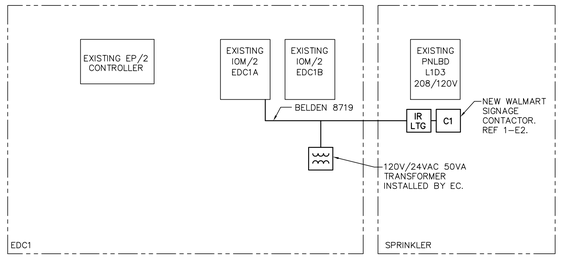
GENERAL EMS NOTES

09.27.13 EN07

1. TEMPERATURE AND CO2 SENSOR MOUNTING: PROVIDE 1/2" CONDUIT AND INSTALL EMS CABLE FROM SENSOR TO CONTROL MODULE. MOUNT SENSOR ON BOX. ALL SENSORS TO BE MOUNTED AT +84" UNLESS NOTED OTHERWISE. SENSORS ON SALES FLOOR SHALL BE MOUNTED ON THE FRONT OF THE COLUMN. DO NOT INSTALL SENSORS IN HVAC SUPPLY AIR PATH OR IN DIRECT SUNLIGHT. REF MECHANICAL DRAWINGS FOR EXACT LOCATIONS.
   A. GYPSUM BOARD WALLS: PROVIDE A 4" SQUARE RECESSED BOX WITH A SINGLE GANG PLASTER RING FLUSH MOUNTED VERTICALLY.
   B. BLOCK WALLS AND COLUMNS: PROVIDE A 2"x4" BOX SURFACE MOUNTED VERTICALLY.
   C. INSULATE BEHIND SENSORS MOUNTED ON EXTERIOR WALLS WITH 1/2" POLYSTYRENE SPACER.
   D. MOUNT CO2 SENSORS 6" ABOVE TEMPERATURE SENSORS.
2. TERMINATIONS SHALL BE MADE IN ACCORDANCE WITH EMS SUPPLIER INSTALLATION INSTRUCTIONS. NO FOIL OR UNUSED WIRE(S) SHALL BE EXPOSED AFTER APPLICATION OF HEAT SHRINK.
3. CABLE: PROVIDE CABLE ACCORDING TO DRAWINGS. NO DEVIATION FROM DRAWINGS WILL BE ACCEPTED. CABLES SHALL HAVE EACH END LABELED INDICATING WHERE THE OPPOSITE END TERMINATES. CABLE SHALL BE INSTALLED IN CONDUIT OR CABLE TRAY IN FINISHED AREAS OF BUILDING.
4. MINOR CHANGES IN MATERIALS OR TERMINATION POINTS SHALL NOT INCREASE CONTRACT COST.
5. ROUTE EMS CONDUITS IN SALES AREA CONCEALED (IN WALLS, PIPE RACKS AND/OR CHASES). PROVIDE A TRANSITION FROM THE PVC UNDERSLAB EMS CONDUIT TO EMT OR FLEX. EMS CABLES SHALL BE RUN IN CONDUIT FULL LENGTH, BENEATH REFRIGERATED CASES. EMS CABLES AT BAR JOIST LEVEL IN THE STOCKROOM CAN BE EXPOSED.
6. DEMOLITION: COORDINATE WITH ARCHITECTURAL DEMOLITION PLANS THE EXTENT OF EMS DEMOLITION. REMOVE CONDUIT AND WIRES ALL THE WAY BACK TO ORIGINATING JUNCTION BOXES OR DEVICES. DEMOLITION SHALL NOT AFFECT ACTIVE CIRCUITS.
7. EMS CONTRACTOR SHALL PROVIDE ASSISTANCE TO THE EMS SUPPLIER ON PERFORMING EQUIPMENT TESTS ON POWER SWITCHING PANELS AS NECESSARY.

CONTROL INFORMATION

DESCRIPTION	TYPE	PANEL/CCT	BRKR POLES	BRKR TYPE	ON/OFF OUTPUT	DIM OUTPUT	DIM INPUT	ON/OFF PROGRAMMING	DIMMING PROGRAMMING
WALMART SIGNAGE	CONTACTOR				IOM-EDC1A-1	N/A	N/A	4PM-8AM ON 8AM-4PM OFF	N/A



WIRE LEGEND
WIR-1010 (TAN CABLE 18-2, 20-2 TWISTED PAIR)
WIR-2020 (BLUE CABLE 22-2 TWISTED PAIR)
BELDEN 8719 (16-2 TWISTED PAIR)
BELDEN 8761 (22-2 TWISTED PAIR)
BELDEN 8771 (22-3 TWISTED PAIR)
BELDEN 9418 (18-4 W/DRAIN GROUND)
BELDEN 1120A (18-3 TWISTED PAIR)

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

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

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

2 PARTIAL EMS ONE-LINE DIAGRAM

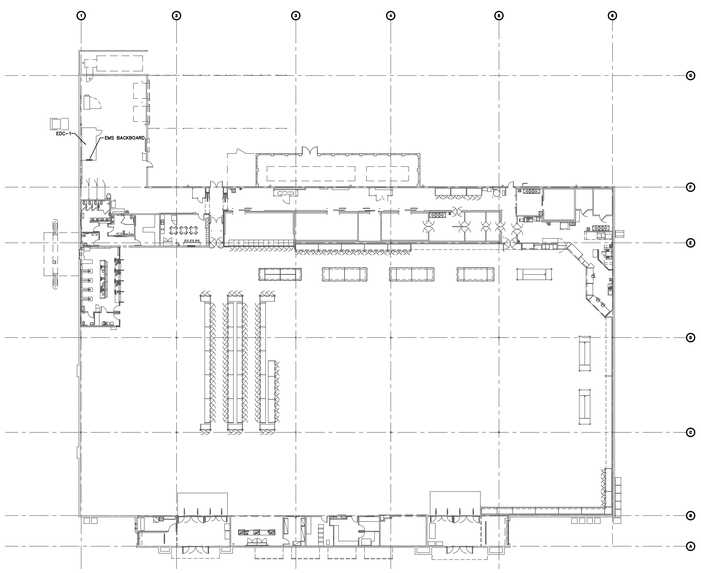
NTS

EMS SYMBOLS

10.30.15 ES09

AHUC	AHU CONTROLLER
AHUS#	AHU TEM/RH SENSOR
ALS	ANALOG LIGHT SENSOR
ETM	ELECTRONIC THERMOSTAT MODULE
IDS	INDOOR DEWPOINT SENSOR
IHS	INDOOR HUMIDITY SENSOR
ITS	INDOOR TEMPERATURE SENSOR
ODS	OUTDOOR DEWPOINT SENSOR
OTS	OUTDOOR TEMPERATURE SENSOR
S-X	WALL TEMPERATURE SENSOR
_S#	UNIT HEATER TEMPERATURE SENSOR
RTUC	ROOFTOP UNIT CONTROLLER
BAP	BUIDLING ALARM PANEL
CO2	CARBON DIOXIDE SENSOR
LINGO XE	BUILDING EMS CONTROLLER
FDI	FLUORESCENT DIMMER INTERFACE
HIR	HUMIDITY INTERFACE RELAY
IAO	INTERFACE ANALOG OUTPUT
IFP	INTERFACE PANEL
IOM	INPUT/OUTPUT MODULE
IR	INTERFACE RELAY
C#	CONTACTOR
MINIo	AHU INTERFACE MODULE AND/OR I/O MODULE
PLM	PHASE LOSS MONITOR
PSOP	POWER SWITCHING OVERRIDE PANEL
PSP	POWER SWITCHING PANEL
ROP	REMOTE OVERRIDE PANEL
ELDP	ECLIPSE LIGHT DIMMING PANEL
UCM	UNITARY CONTROL MODULE
XCM.2OR	BUILDING EMS CONTROLLER
NOS	NIGHTTIME OVERRIDE SWITCH
S	MOMENTARY PUSH BUTTON SWITCH
———	NEW EQUIPMENT
———	EXISTING EQUIPMENT
– – – –	FACTORY INSTALLED EQUIPMENT
– – – –	EQUIPMENT TO BE DEMOLISHED

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



1 ENERGY MANAGEMENT PLAN

1/32" = 1'-0"

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. 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 THEMSELF 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.

CYNTERGY
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FORT WORTH, TX
STORE NO.2979-211
JOB NUMBER: USMR-006304 | GENERAL REMODEL

ISSUE BLOCK

	02/12/18	PERMIT/ BID
30 X 42	SHEET SET	

CHECKED BY:	BLW
DRAWN BY:	NSW
PROTO:	52
PROTO CYCLE:	12/29/17
DOCUMENT DATE:	02/12/18

DOCUMENTS WITHOUT SIGNATURE AND REQUIRED SEAL OF AOR/EOR ARE NOT FOR CONSTRUCTION

ERIC KESTERSON, P.E.
ENGINEER OF RECORD
CA # F-2220

ENERGY MANAGEMENT PLAN

novar.

SHEET: EM1

Feb 28, 2018 - 7:59am - USER bwestlund
W:\Supctrs\2018 Remodels\2979-211 Fort Worth TX\Drawings\4300 - EM1 ENERGY MANAGEMENT PLAN - 2979.dwg