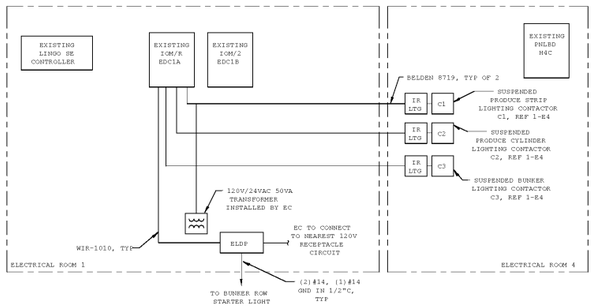
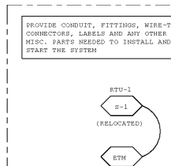
CONTROL INFORMATION

DESCRIPTION	TYPE	PANEL/OCT	BRKR POLES	BRKR TYPE	ON/OFF OUTPUT	DIM OUTPUT	DIM INPUT	ON/OFF PROGRAMMING	DIMMING PROGRAMMING
SUSPENDED PRODUCE STRIP LIGHTING	CONTACTOR				IOM/R EDC1A - 1	N/A	N/A	24 / 7 ON	N/A
SUSPENDED PRODUCE CYLINDER LIGHTING	CONTACTOR				IOM/R EDC1A - 1	N/A	N/A	24 / 7 ON	N/A
SUSPENDED BUNKER LIGHTING	CONTACTOR				IOM/R EDC1A - 4	IOM/R EDC1A - 7	IOM/R EDC1A - 2	24 / 7 ON	24 / 7 - 90

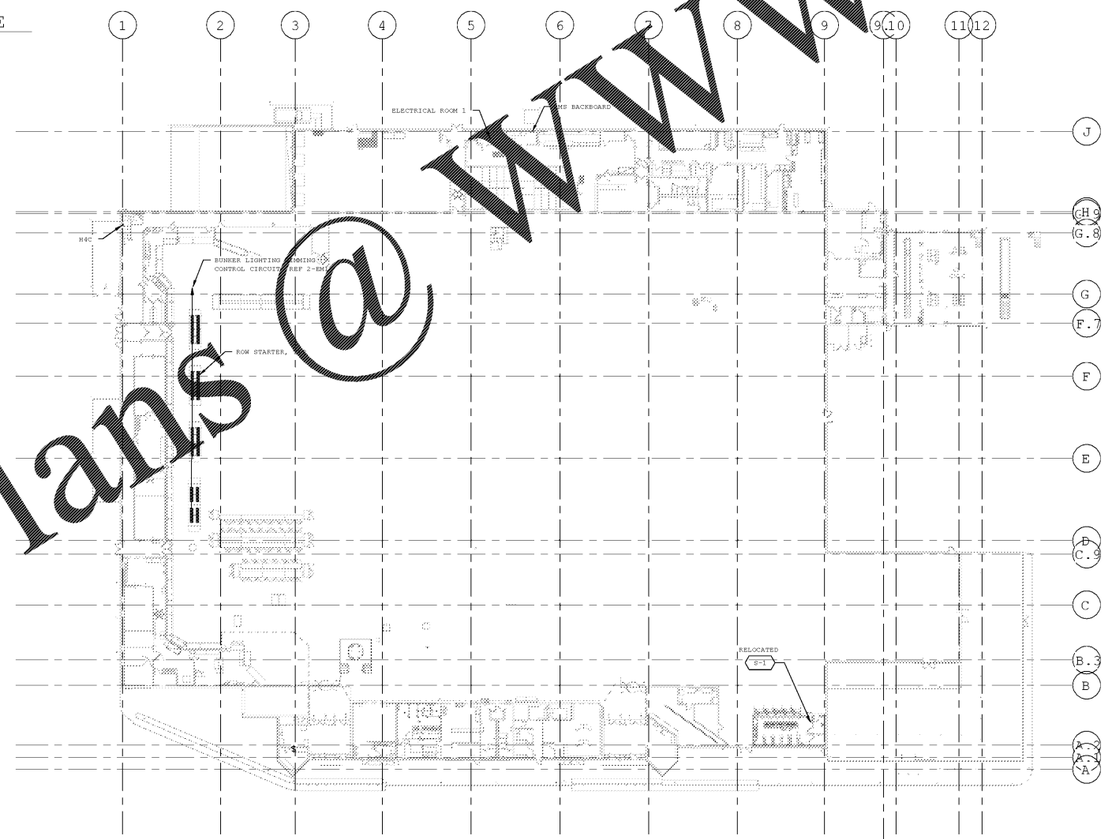
OWNER WILL FURNISH ALL MAJOR E.M.S. DEVICES (INCLUDING 24 VOLT TRANSFORMERS AND RELAYS).



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



2 PARTIAL EMS ONE-LINE
12" = 1'-0"



1 ENERGY MANAGMENT PLAN
1/32" = 1'-0"

EMS EQUIPMENT SALVAGE REQUIREMENTS

12.19.14

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.

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.

WIRE LEGEND

WIR-1010 (TAN CABLE 18-2, 20-2 TWISTED PAIR)
WIR-2020 (BLUE CABLE 22-2 TWISTED PAIR)
BELDEN 8719 (14-2 TWISTED PAIR)
BELDEN 8761 (22-2 TWISTED PAIR)
BELDEN 8471 (22-3 TWISTED PAIR)
BELDEN 9418 (18-4 [illegible] GROUND)
BELDEN 1120 (18-3 TWISTED PAIR)

NOTES :
1. ALL CABLE WIRE COLOR UNLESS NOTED OTHERWISE.
2. ALL CABLE FURNISHED AND INSTALLED BY EMS CONTRACTOR.

GENERAL EMS NOTES

01.30.15

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 INSTALLED ON THE BACK SIDE OF 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 BOX SURFACE MOUNTED VERTICALLY.
   C. INSULATE BEHIND SENSORS [illegible] EXTERIOR WALLS WITH 1/2" POLYSTYRENE SPACER.
   D. MOUNT CO2 [illegible] AND TEMPERATURE SENSORS.
2. TERMINATION: [illegible] SHALL BE MADE [illegible] WITH EMS SUPPLIER INSTALLATION [illegible] TURNS. NO FOIL OR [illegible] WIRE(S) SHALL BE EXPOSED AFTER APPLICATION OF HEAT SHRINK.
3. CABLE: PROVIDE [illegible] ACCORDING TO DRAWINGS. NO DEVIATION FROM [illegible] WILL BE ACCEPTED. CABLES SHALL HAVE EACH END LABELED INDICATING WHERE THE OPPOSITE END TERMINATES. CABLE SHALL BE [illegible] IN CONDUIT OR CABLE TRAY IN FINISHED AREAS OF BUILDING.
4. FOR 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.
8. DIMMING CONTROL WIRING MUST TERMINATE IN HOME RUN FIXTURES ONLY, AS SHOWN ON EMS PLANS, PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. DO NOT MODIFY THE LISTED FIXTURE'S WIRING HARNESS OR TERMINATE CONTROL WIRING IN THE ADJACENT FIXTURES.
9. DO NOT INSTALL EQUIPMENT OR CONDUITS DIRECTLY UNDER SKYLIGHT WELLS UNLESS INDICATED OTHERWISE ON PLANS.
10. WHERE GROUPED CONDUITS ARE INSTALLED WITHIN THE JOIST SPACE, COORDINATE WITH SPRINKLER CONTRACTOR PRIOR TO INSTALLATION IN ORDER TO MAINTAIN REQUIRED CLEARANCES FROM SPRINKLERS.
11. 24 HOURS PRIOR TO SHUTTING DOWN HVAC SYSTEMS OR ENERGY MANAGEMENT CONTROLS SYSTEMS, SEND EMAIL 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 SHUT DOWN. THEN SEND A FOLLOW UP EMAIL TO NSRM@WALMART.COM AFTER THE WORK IS COMPLETE AND THE SYSTEM IS BACK UP AND RUNNING.

EMS SYMBOLS

10.30.15

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
UHS	UNIT HEATER TEMPERATURE SENSOR
RTUC	ROOFTOP UNIT CONTROLLER
BAP	BUILDING 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
MIMLG	AHU INTERFACE AND/OR I/O MODULE
PLM	PHASE LOSS MONITOR
PSOP	POWER SWITCHING OVERRIDE PANEL
PSP	POWER SWITCHING PANEL
ROP	REMOTE OVERRIDE PANEL
ELDF	ECLIPSE LIGHT DIMMING PANEL
UCM	UNITARY CONTROL MODULE
XCM.20R	BUILDING EMS CONTROLLER
SOR	NIGHTTIME OVERRIDE SWITCH
P	MOMENTARY PUSH BUTTON SWITCH
	NEW EQUIPMENT
	EXISTING EQUIPMENT
	FACTORY INSTALLED EQUIPMENT
	EQUIPMENT TO BE DEMOLISHED

1

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

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.

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CERTIFICATION FOR PERMIT

THIS DRAWING AS PREPARED FOR PERMIT IS TO THE BEST OF MY KNOWLEDGE IN CONFORMANCE WITH THE LOCAL CODES AND ORDINANCES. I FURTHER CERTIFY THAT THE PLANS AND SPECIFICATIONS COMPLY WITH THE MINIMUM REQUIREMENTS OF THE ENERGY CONSERVATION CODE AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION. ANY DEVIATION FROM THE PLANS AND SPECIFICATIONS WILL REQUIRE RESUBMITTAL AND APPROVAL PRIOR TO CONSTRUCTION. ANY DEVIATION FROM THE PLANS AND SPECIFICATIONS MAY REQUIRE THE SUBMITTAL OF A REVISED CERTIFICATION STATEMENT. ANY DEVIATION FROM THE PLANS AND SPECIFICATIONS MAY BE CONTRARY TO THE LAW AND MAY REQUIRE REVISION OF THE PLANS AND SPECIFICATIONS.

CONSULTANTS

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JESUP, GA
STORE NO: 2630
139
FOR NUMBERS: 2180278 | PROTO1

ISSUE BLOCK

1	PP#1	10/26/18

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PHOTO CYCLE:	07/27/18
DOCUMENT DATE:	10/26/18

NOT FOR CONSTRUCTION

ENERGY MANAGEMENT PLAN

novar.

SHEET:
EM1

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