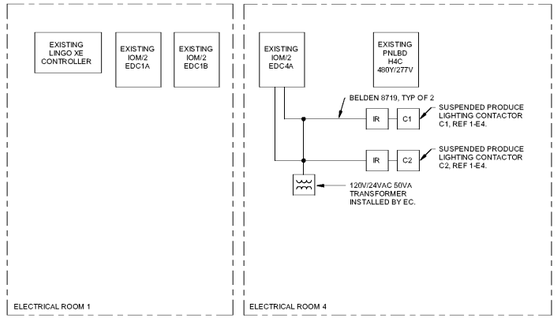
CONTROL INFORMATION

DESCRIPTION	TYPE	ON/OFF OUTPUT	ON/OFF PROGRAMMING
SUSPENDED PRODUCE LIGHTING	CONTACTOR	IOM/2 EDC4A - 4	COORDINATE WITH STORE MANAGER
SUSPENDED PRODUCE LIGHTING	CONTACTOR	IOM/2 EDC4A - 5	COORDINATE WITH STORE MANAGER

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).



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 BAS CONTRACTOR.

BAS EQUIPMENT SALVAGE REQUIREMENTS

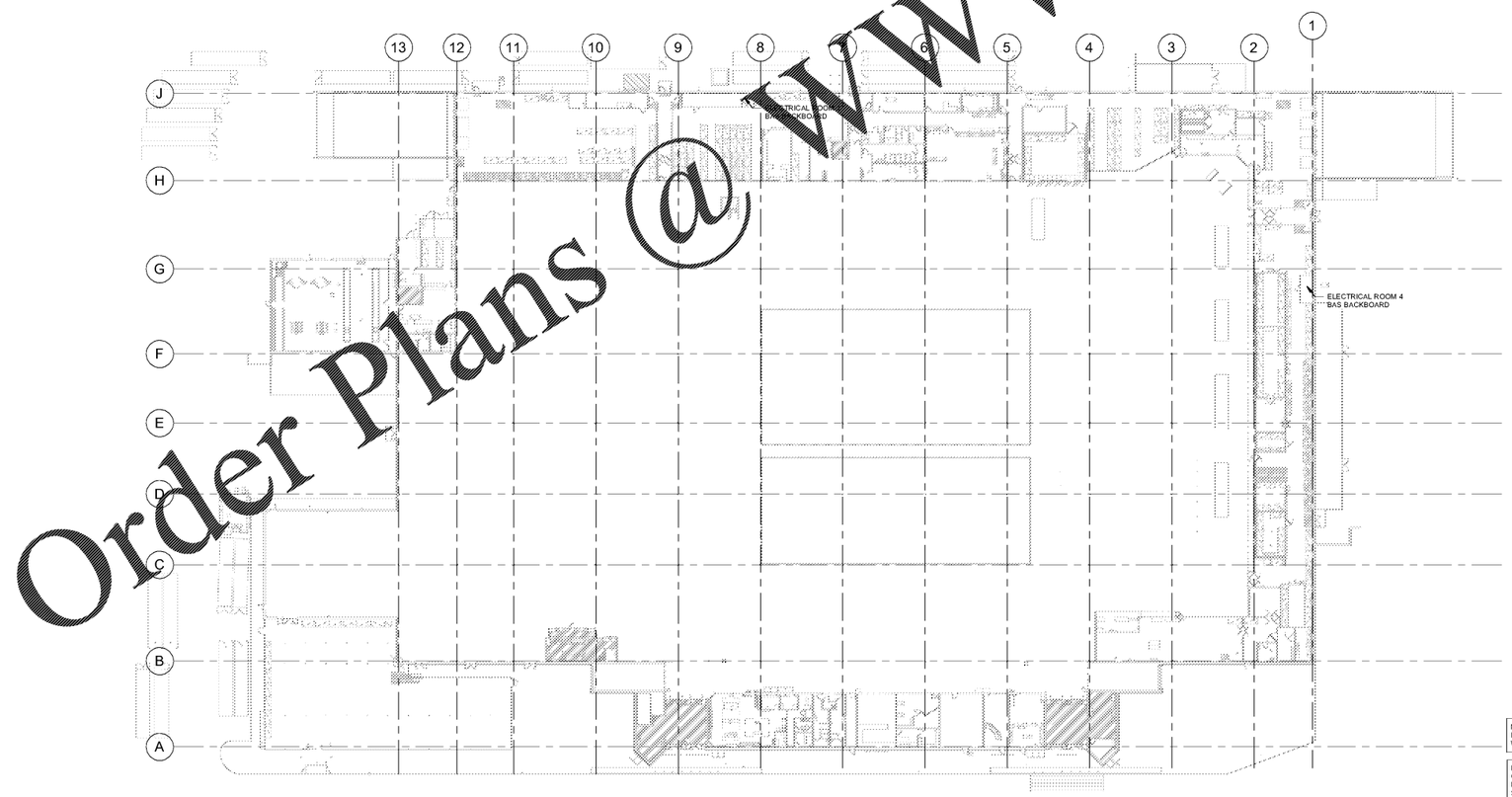
ALL DEMOLISHED NOVAR BAS EQUIPMENT SHALL BE RETURNED TO WALMART MECHANICAL SERVICES CONSTRUCTION MANAGER. EQUIPMENT TO BE RETURNED INCLUDES: EXECUTIVE CONTROLLER(S), IOM(S), CMM(S), COM(S), ETC. PROVIDE DOCUMENTATION FOR ALL EQUIPMENT REMOVED IN ACCORDANCE WITH SPECIFICATIONS AND REQUIRED CLOSE-OUT DOCUMENTS.

GENERAL BAS NOTES

1. TEMPERATURE AND CO2 SENSOR MOUNTING: PROVIDE 1/2" CONDUIT AND INSTALL BAS CABLE FROM SENSOR TO CONTROL MODULE. MOUNT SENSOR ON BOX. ALL SENSORS TO BE MOUNTED AT +94" 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 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. TERMINATION SHALL BE MADE IN ACCORDANCE WITH BASCUPPLIED INSTALLATION INSTRUCTIONS. NO WIRE OR UNUSED WIRE(S) SHALL BE EXPOSED AND NO SPLICES OR HEAT SHRINK.
3. CABLE TO PROVIDE CAN BE ORDERING TO DRAWINGS. NO DEVIATIONS FROM DRAWINGS WILL BE ACCEPTED. CABLES SHALL HAVE EACH END LABELLED INDICATING WHERE THE OPPOSITE END TERMINATES. CABLE SHALL BE INSTALLED IN CONDUIT OR CABLE TRAY IN FINISHED AREAS OF BUILDING, EXCEPT HVAC CABLE IN SALES FLOOR AREA AT BAR JOISTS.
4. MINOR CHANGES IN MATERIALS OR TERMINATION POINTS SHALL NOT INCREASE CONTRACT COST.
5. ROUTE BAS CONDUITS IN CONCEALED LOCATIONS (IN WALLS, PIPE RACKS AND/OR CHASES). PROVIDE A TRANSITION FROM THE PVC UNDERSLAB BAS CONDUIT TO EMT OR FLEX. BAS CABLES SHALL BE RUN IN CONDUIT FULL LENGTH, BENEATH REFRIGERATED CASES. BAS CABLES AT BAR JOIST LEVEL IN OPEN SALES AREA AND THE STOCKROOM CAN BE EXPOSED.
6. DEMOLITION: COORDINATE WITH ARCHITECTURAL DEMOLITION PLANS THE EXTENT OF BAS DEMOLITION. REMOVE CONDUIT AND WIRES ALL THE WAY BACK TO ORIGINATING JUNCTION BOXES OR DEVICES. DEMOLITION SHALL NOT AFFECT ACTIVE CIRCUITS.
7. BAS CONTRACTOR SHALL PROVIDE ASSISTANCE TO THE BAS 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.

BAS SYMBOLS

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
HS-X	WALL HUMIDITY SENSOR
RTUC	ROOFTOP UNIT CONTROLLER
EICB	EQUIPMENT INTERFACE COMM BOARD
BAP	BUILDING ALARM PANEL
CO2	CARBON DIOXIDE SENSOR
FDI	FLUORESCENT DIMMER INTERFACE
HIR	HUMIDITY INTERFACE RELAY
I/AO	INTERFACE ANALOG OUTPUT
IFP	INTERFACE PANEL
IOM	INPUT/OUTPUT MODULE
IR	INTERFACE RELAY
C#	CONTACTOR
MINio	AHU INTERFACE 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
ES1	BAS CONTROLLER
LINGO EP/2	BAS CONTROLLER
LINGO XE	BAS CONTROLLER
LCD	NOVAR LCD DISPLAY
NOS	NIGHTTIME OVERRIDE SWITCH
S	MOMENTARY PUSH BUTTON SWITCH
———	NEW EQUIPMENT
———	EXISTING EQUIPMENT
— — —	FACTORY INSTALLED EQUIPMENT
— — —	EQUIPMENT TO BE DEMOLISHED



1 BUILDING AUTOMATION PLAN
1/32" = 1'-0"

2 PARTIAL BAS ONE-LINE
NTS

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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DOCUMENT DATE:	03/01/21

ALABAMA LICENSED No. 39430-E PROFESSIONAL ENGINEER JUSTIN S. PARKER

03/30/2021

BUILDING AUTOMATION SYSTEM

novar.

SHEET: BAS1

DUSTIN R. PADGET