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1 REFRIGERATION BUILDING AUTOMATION PLAN
1/16" = 1'-0"

BAS EQUIPMENT SALVAGE REQUIREMENTS
R04-04-22-02

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

LEAK DETECTION SYMBOLS

	AUDIO/VISUAL ALARM
	HORN AND STROBE INDICATOR
	LEAK DETECTION PANEL
	LEAK DETECTION SENSOR
	ZONE ALARM SILENCE PANEL

GENERAL REFRIGERATION BAS NOTES
R04-04-22-02

1. BAS CONTRACTOR SHALL CONTACT THE BAS SUPPLIER(S) 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 BAS CABLES. WIRING TERMINATIONS SHALL BE LANDED ACCORDING TO THE BAS SUPPLIER CONFIGURATION SHEETS.
2. BAS CONTRACTOR SHALL PROVIDE COMPLETED REFRIGERATION SENSOR INPUT VERIFICATION FORMS TO THE BAS SUPPLIER AT THE BEGINNING OF THE REFRIGERATION EQUIPMENT STARTUP. BAS INSTALLER SHALL PROVIDE ASSISTANCE TO THE BAS SUPPLIER FOR SPOT CHECKING OF SENSORS FOR ACCURACY.
3. ALL BAS CABLE ON THE SALES FLOOR SHALL BE ROUTED IN CONDUIT AND CONCEALED FROM VIEW AND ROUTED ALONGSIDE OTHER PIPING OR CONDUIT AS MUCH AS POSSIBLE.
4. BAS CONTRACTOR SHALL BE PRESENT AND AVAILABLE TO RESOLVE ISSUES AND PROVIDE REFRIGERATION STARTUP ASSISTANCE UNTIL RELEASE BY BAS SUPPLIER AND OWNER'S REFRIGERATION CONSTRUCTION COORDINATOR. DURING REFRIGERATION STARTUP, BAS CONTRACTOR SHALL COMPLETE ALL UNRESOLVED REFRIGERATION WORK PRIOR TO WORKING ON OTHER BAS INSTALLATION ITEMS.
5. IF THE BAS SUPPLIER IS NOT SCHEDULED TO PERFORM THE ON SITE REFRIGERATION STARTUP, THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL CHECKS AND TEST TO ENSURE A FULLY FUNCTIONAL REFRIGERATION CONTROL SYSTEM. CONTACT THE BAS SUPPLIER FOR THE BLANK TEST VERIFICATION FORMS AND INSTRUCTIONS FOR COMPLETING. ALL COMPLETED TEST VERIFICATION FORMS SHALL BE RETURNED TO THE OWNER'S MECHANICAL SERVICES CONSTRUCTION MANAGER.
7. 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.
8. ROUTE ALL UTILITY SERVICE LINES (PIPES AND CONDUIT) WITHIN STUD WALLS WHERE POSSIBLE. ON COOLER/FREEZER PANELS IN FOOD PREP AREAS WHERE UTILITIES MUST BE EXPOSED, CONTRACTOR TO HAVE THE OPTION OF THE FOLLOWING:
 - A. SURFACE MOUNT UTILITIES WITH NON-CORROSIVE ANCHORS; SEAL BOTH SIDES OF PIPE/CONDUIT TO PANEL CONTINUOUSLY WITH SEALANT.
 - B. INSTALL UTILITIES 1/2" OFF FACE OF PANEL TO ALLOW FOR CLEANING; USE ONLY NON-CORROSIVE MATERIALS FOR SPACERS AND ANCHORS.
 - C. COVER UTILITIES WITH 20 GAUGE STAINLESS STEEL BENT PLATES MOUNTED TO WALL WITH NON-CORROSIVE ANCHORS; APPLY CONTINUOUS SEALANT ALONG EDGES AND JOINTS.
9. REFERENCE ARCHITECTURAL DEMOLITION PLANS FOR FULL EXTENT OF DEMOLITION WORK REQUIRED.
10. 24 HOURS PRIOR TO SHUTTING DOWN ANY REFRIGERATION SYSTEMS, HVAC SYSTEMS OR BUILDING AUTOMATION SYSTEMS, SEND EMAIL TO NSRM@WALMART.COM. THE EMAIL 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.
11. ALL WORK ON THIS SHEET IS TO BE COMPLETED BY AN OWNER'S APPROVED CONTRACTOR.

BAS SYMBOLS
R04-04-22-02

ES1	NOVAR EDGE SERVER GATEWAY
E2E	EMERSON RX300 GATEWAY
RC2XE	NOVAR SPECTRUM RACK CONTROLLER
XCM 20R	NOVAR OPUS RACK CONTROLLER
BAS	BUILDING AUTOMATION SYSTEM
TEMP	TEMPERATURE
VFD	VARIABLE FREQUENCY DRIVE
XFMR	TRANSFORMER
COMM	COMMUNICATION PORT/MODULE
CM	CASE INPUT MODULE
LTA-X	REFRIGERATION CIRCUIT
S	REMOTE TEMPERATURE SENSOR
D	DEFROST TERMINATION SENSOR
DTS	DUAL TEMP SWITCH
RB	RELAY IN BOX
RCC	NOVAR CIRCUIT CONTROLLER
CMS	CASE MANAGEMENT SYSTEM MODULE
ACM	ANALOG OUTPUT MODULE
SM	UNIVERSAL INPUT MODULE
RM	RACK INPUT MODULE
SSC	SPORLAN WALK-IN CONTROLLER
SSC	SPORLAN CASE CONTROLLER
SGR	SPORLAN GATEWAY ROUTER
SNS	SPORLAN NETWORK SWITCH
BAS BACKBOARD	
DS	DOOR SWITCH
XIO	BACNET INPUT/OUTPUT MODULE
— NEW FIELD INSTALLED EQUIPMENT	
— EXISTING EQUIPMENT	
- - - NEW FACTORY INSTALLED EQUIPMENT	
- - - EQUIPMENT TO BE DEMOLISHED	

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03/30/2021
REFRIGERATION BUILDING AUTOMATION SYSTEM PLAN

SHEET: **BAS2**

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 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.