

OWNERSHIP OF INSTRUMENTS OF SERVICE

All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by the Consultant as instruments of service shall remain the property of the Consultant. The Consultant shall retain all common law, statutory and other reserved rights, including, without limitation, the copyright therein.



GENERAL NOTES

- REFER TO EM SERIES SHEETS FOR ALL RELATED SCHEDULES, DETAILS ETC. RELATING TO THIS PLAN.
- PROVIDE A MINIMUM OF (2) 1" CONDUITS FOR EACH REFRIGERATION CIRCUIT, CONSISTING OF (1) CONDUIT FOR LOW VOLTAGE AND (1) FOR LINE VOLTAGE.
- FURNISH AND INSTALL ALL WIRES AND CABLES. PROVIDE FINAL TERMINATIONS FOR ALL LINE VOLTAGE WIRING U.N.O. REFRIGERATION CONTRACTOR SHALL MAKE FINAL TERMINATIONS AT BOTH ENDS OF LOW VOLTAGE WIRES/CABLES AND DEFROST WIRING. PROVIDE SUFFICIENT SLACK AT BOTH ENDS TO ALLOW FOR SERVICE LOOPS AND TO FACILITATE PROPER TERMINATIONS ELSEWHERE, INCLUDING RELATED POWER WIRING SHOWN ON OTHER DRAWING SHEETS. PROVIDE ALL REQUIRED TERMINATIONS.
- IF A DISCREPANCY EXISTS BETWEEN THIS DRAWING AND THE SPECIFICATIONS, REFER TO KROGER PROJECT ENGINEER FOR RESOLUTION.
- WHERE APPLICABLE FOR ISLAND TYPE CASE LOCATIONS, INSTALL CONDUIT BELOW SLAB AND PROVIDE OUTLET BOXES SURFACE MOUNTED JUST ABOVE FLOOR SLAB.
- REFER TO EQUIPMENT SCHEDULES ON ES-SERIES DRAWINGS FOR MOUNTING HEIGHTS AND ADDITIONAL INFORMATION. ALSO SEE DETAILS ON SHEET ES-SERIES DRAWINGS WHERE APPLICABLE.
- INSTALL ELECTRICAL OUTLETS FOR REFRIGERATION ISLAND CASES IN A STRAIGHT LINE ALIGNED WITH THE HUB DRAWING. COORDINATE WITH PLUMBING DIMENSIONS SIGNED PLAN.
- ALL DIMENSIONS INDICATED ON PLANS THAT ARE FROM INTERIOR PARTITIONS WHERE THE RETURN AIR SHAFI IS INDICATED ARE TAKEN FROM THE SALES AREA SIDE OF THE ROOF DECK HIGH PARTITION, NOT THE RETURN AIR SHAFI PARTITION.
- COORDINATE THE UNDERSLAB CONDUIT AND RACEWAY LAYOUT WITH ALL AFFECTED PARTIES PRIOR TO SLAB PLACEMENT.
- PROVIDE 10 FEET OF FLEXIBLE CONDUIT FOR REFRIGERATED CASES SERVED FROM WALL JUNCTION BOXES AND 6 FEET FOR ISLAND REFRIGERATED CASES FOR CONNECTION TO CASES BY THE PHASE II EQUIPMENT CONTRACTOR.
- ALL WALL MOUNTED OUTLETS SERVING REFRIGERATED CASES WITH RETURN AIR PLENUM ABOVE SHALL BE ACCESSIBLE (WITH ALL WIRING PLENUM RATED AS APPLICABLE).
- REFER TO ELECTRICAL DIMENSION PLANS FOR GENERAL DIMENSIONAL INFORMATION THAT SHALL SCHEMATICALLY APPLY FOR CORRESPONDING SYSTEMS WORK.
- IF DEFROST SYMBOL IS SHOWN ON THE PLAN, BUT THE EQUIPMENT IS NOT LISTED IN THE DEFROST WIRING SCHEDULE, THEN ROUGH IN THE CONDUIT AND OUTLET BOX (WITH BLANK PLATE) FOR FUTURE TERMINATION.
- REFER TO RISD-11 FOR MOUNTING SPECIFICS (LOCATIONS, HEIGHTS, ETC) REGARDING PROTOCOL UNIT ACCESSORIES AND ANCILLARY EQUIPMENT.
- REFRIGERATION PITS SHOWN FOR REFERENCE ONLY. B.E.C. TO UTILIZE REFRIGERATION TRENCHES FOR ELECTRICAL CONDUIT WHERE EVER POSSIBLE. COORDINATE ALL TRENCHES WITH REFRIGERATION CONTRACTOR AND GENERAL CONTRACTOR. B.E.C. IS RESPONSIBLE FOR ANY ADDITIONAL UNDERFLOOR TRENCHES AS REQUIRED BY ELECTRICAL DRAWINGS.

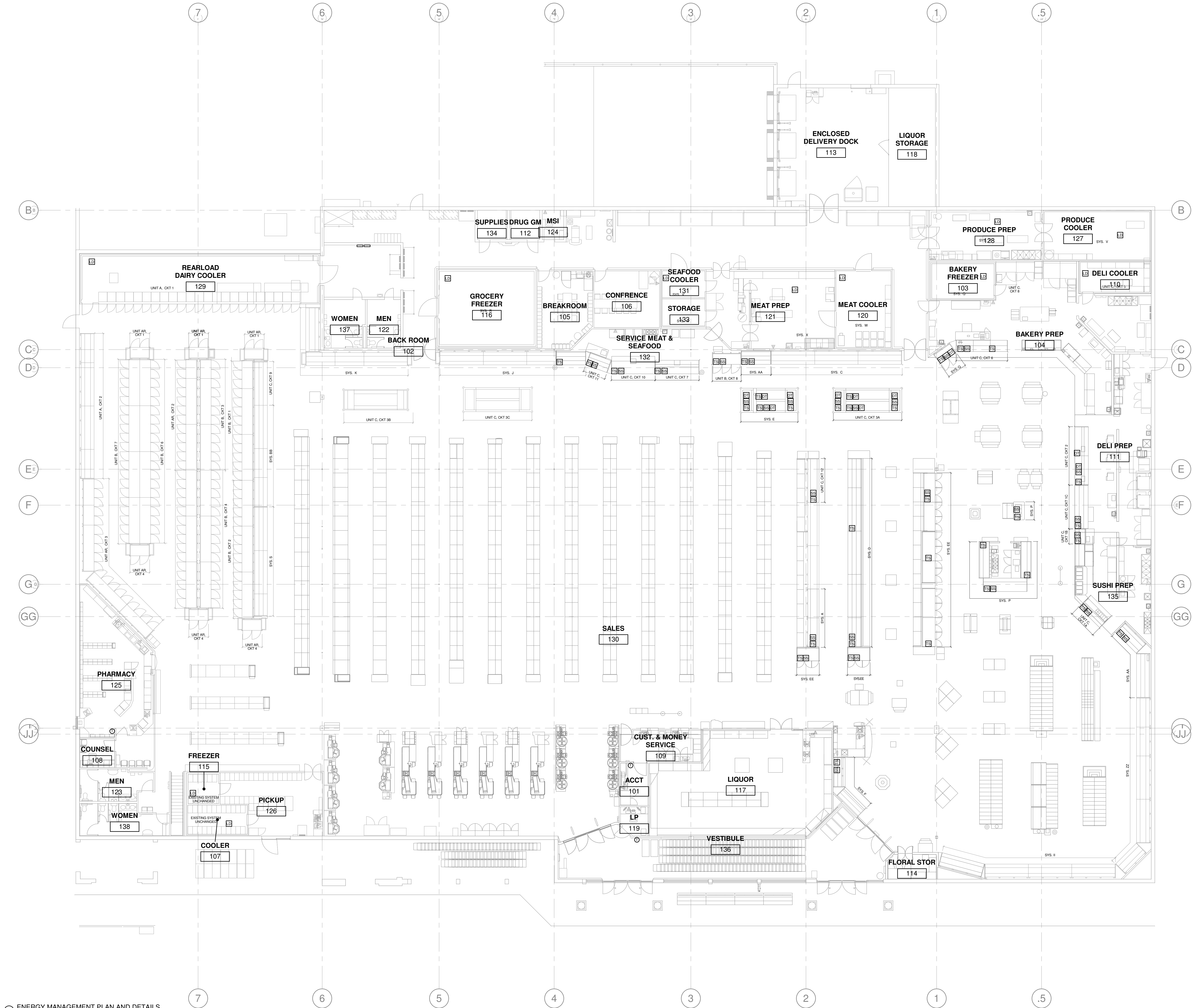
ENERGY MANAGEMENT SYSTEM (EMS) LEGEND
(APPLIES ONLY FOR EMS DRAWING SHEETS)

SYMBOL	DESCRIPTION	NOTE	CABLE/CONDUCTORS
DT	DEFROST CONDUIT	PROVIDE OUTLET BOX AT CASE. PROVIDE WIRING FROM CASE TO RESPECTIVE DANFOSS "RC" PANEL. SEE DEFROST WIRING SCHEDULE. PROVIDE WIRING IN 1" CONDUIT FOR WALK-IN COOLERS/FREEZERS AND ALL OTHER APPLICATIONS. FOR REFRIGERATED CASES, PROVIDE WIRING FROM CASE TO RESPECTIVE SINGLE PHASE OR THREE PHASE CONNECTION POINT PER RISD-13 (WHERE APPLICABLE), OR DIRECTLY TO PROTOCOL UNIT. SEE DEFROST WIRING SCHEDULE FOR DEFROST CIRCUIT PHASE. IN ADDITION, PROVIDE 1" CONDUIT FOR KLIXON UNITS. KLIXON UNITS TO BE WIRED IN SERIES PER REFRIGERATION CIRCUIT WITH A SINGLE HOME RUN TO "RC" PER CIRCUIT.	SEE DEFROST WIRING SCHEDULE ON EMS SHEETS. REFER TO SPECIFICATION 26.05.19 FOR CABLING REQUIREMENTS AND ADDITIONAL INFORMATION.
SS	SUCTION STOP SOLENOID	PROVIDE OUTLET BOX AT CASE. PROVIDE CABLE IN 1" CONDUIT FROM SOLENOID TO RESPECTIVE "RC" CONTROL PANEL. SOLENOID SHALL BE FURNISHED & INSTALLED BY REFRIGERATION CONTRACTOR.	SEE 208V COOLING COIL FAN WIRING SCHEDULE ON THIS SHEET.
TS	TEMPERATURE SENSOR (REFRIGERATION)	PROVIDE OUTLET BOX AT CASE. PROVIDE CABLE FROM SENSOR TO RESPECTIVE "RC" CONTROL PANEL. PROVIDE 1" CONDUIT TO JOIST SPACE OR ABOVE CEILING, THEN FREE WIRED TO JOIST SPACE. CABLE IN JOIST SPACE TO BE FREE-WIRED.	REFER TO SPECIFICATION 26.05.19 FOR CABLING REQUIREMENTS AND ADDITIONAL INFORMATION. REFER TO REFRIGERATION INSTALLATION SPECS FOR FREE-WIRED REQUIREMENTS.

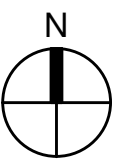
WHERE REFRIGERATION EQUIPMENT IS SERVED FROM A PROTOCOL UNIT, ROUTE TO RESPECTIVE PROTOCOL UNITS "RC" CONTROL PANEL.

IN THE NOTES STATED ABOVE, PROVIDE SHALL MEAN FURNISH AND INSTALL.

PROVIDE AND WIRE ALL ADDITIONAL CONTACTORS, RELAYS AND ADDITIONAL ENCLOSURES NECESSARY FOR A FULLY WORKING DEFROST SYSTEM. REFER TO HUSSMAN EQUIPMENT SCHEDULES FOR PROTOCOL SYSTEMS AS THESE ARE TYPICALLY PROVIDED WITH THE PROTOCOL.



1 ENERGY MANAGEMENT PLAN AND DETAILS
3/32" = 1'-0"



2" REFERENCE LINE

#	Date	Change Description
---	------	--------------------

KROGER N273 WORTHINGTON
50 WORTHINGTON MALL
WORTHINGTON, OH 43085
for
THE KROGER COMPANY

MOODY•NOLAN

300 Spruce Street
Suite 300
Columbus, Ohio 43215

Phone: (614) 461-4664
Fax: (614) 280-8881
www.moodynolan.com

Dwg. Coord: EBA Tech. Coord: LGF Proj. # 21701

ENERGY MANAGEMENT PLAN AND DETAILS **EM1.1**

PERMIT BID 12/10/2019