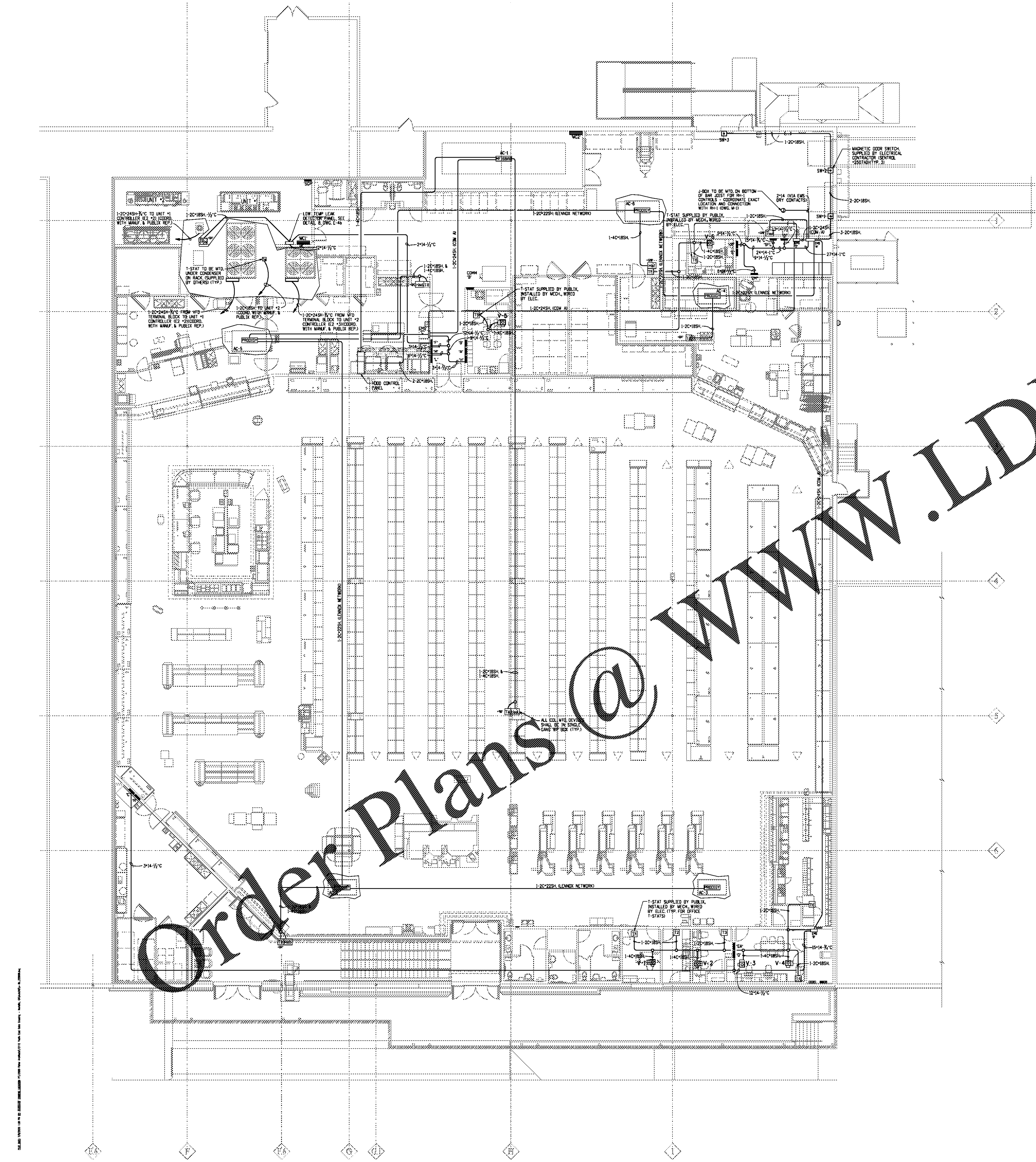


1. ENERGY MANAGEMENT SYSTEM INSTALLATION RESPONSIBILITY										
2.	REFRIGERATION CONTROL EQUIPMENT									
3. DESCRIPTION	RESPONSIBILITY									COMMENTS
4.	PUB	RM	RIC	HC	CEM	RCM	EC	ACM	CPC	
5. FURNISH ALL TEMPERATURE AND HUMIDITY SENSORS	X									
6. INSTALL WALK-IN SENSORS			X							
7. WIRE TEMPERATURE & HUMIDITY SENSORS							X			
8. FURNISH, INSTALL AND TERMINATE CONDUIT/WIRING FOR REMOTE SENSORS							X			
9. FURNISH, INSTALL AND TERMINATE ALL CONDUIT/WIRING BETWEEN CONTROLLERS							X			
10. FURNISH, INSTALL AND TERMINATE ALL CONDUIT/WIRING BETWEEN ALARM PANELS							X			
11. FURNISH, INSTALL AND TERMINATE ALL CONDUIT/WIRING TO REMOTE I/O BOARDS							X			
12. FURNISH REMOTE I/O BOARDS - EMS BOARD	X									
13. INSTALL AND TERMINATE REMOTE I/O BOARDS							X			
14. FURNISH ALARM PANELS (IF APPLICABLE)	X									
15. INSTALL, WIRE, AND TERMINATE ALARM PANELS (IF APPLICABLE)							X			
16.										
17.										
18. ENERGY MANAGEMENT SYSTEM LIGHTING CONTROL										
19.	LIGHTING CONTROL EQUIPMENT									
20. DESCRIPTION	RESPONSIBILITY									COMMENTS
21.	PUB	RM	RIC	HC	CEM	RCM	EC	ACM	CPC	
22. FURNISH REMOTE I/O BOARDS, BRO'S & W/TRANSFORMERS AND ENCLOSURES	X									
23. INSTALL, WIRE AND TERMINATE REMOTE I/O BOARDS, BRO'S & W/TRANSFORMERS AND ENCLS.							X			
24. FURNISH, INSTALL, WIRE AND TERMINATE LIGHTING CONTACTORS W/ENCLS.							X			
25. FURNISH, INSTALL AND TERMINATE ALL CONDUIT/WIRING FOR LIGHTING CONTROLS							X			
26.										
27.										
28. HVAC CONTROL EQUIPMENT RESPONSIBILITY										
29.	HVAC CONTROL EQUIPMENT									
30. DESCRIPTION	RESPONSIBILITY									COMMENTS
31.	PUB	RM	RIC	HC	CEM	RCM	EC	ACM	CPC	
32. FURNISH EMS A	X									
33. INSTALL, WIRE AND TERMINATE EMS A							X			
34. FURNISH CPC BOARDS, 8I/O, 8RO(C), 16AI	X									
35. INSTALL CPC BOARDS, 8I/O, 8RO(C), 16AI			X							
36. FURNISH ALL PRE-SPECIFIED SENSORS AND CONTROLS	X									
37. INSTALL AND TERMINATE ALL PRE-SPECIFIED SENSORS AND CONTROLS										
38. FURNISH, INSTALL AND TERMINATE ALL CONDUIT/WIRING TO CPC/RMCC										
39. FURNISH, INSTALL AND TERMINATE ALL CONDUIT/WIRING TO HEAT RECLAIM										
40. FURNISH, INSTALL AND TERMINATE ALL CONDUIT/WIRING TO ALL REFRIGERATION RACKS										
41. FURNISH, INSTALL AND TERMINATE ALL CONDUIT/WIRE TO VAV AND DUMP BOX CONTROLS							X			
42. FURNISH, INSTALL AND TERMINATE ALL CONDUIT/WIRE TO FURNISHED CONTROLS/DEVICES										
43. FURNISH CPC I/O BOARDS FOR EXISTING HVAC EQUIPMENT RETROFIT										
44. INSTALL CPC I/O BOARDS FOR EXISTING HVAC EQUIPMENT RETROFIT			X							

LEGEND:
PUB - PUBLIX
RM - RACK MANUFACTURER
RIC - REFRIGERATION INSTALLATION CONTRACTOR
HC - HVAC CONTRACTOR
CEM - CONDENSER AND EVAPORATOR MANUFACTURER OEM
RCM - REFRIGERATED CASE MANUFACTURER
EC - ELECTRICAL CONTRACTOR
ACM - HVAC MANUFACTURER
CPC - COMPUTER PROCESS CONTROLS

GENERAL INSTALLATION NOTES

1. ALL CONDUIT STUB UPS SHALL HAVE A PULL STRING AND BUSHINGS ON TERMINATING END ABOVE CEILING OR AT JOISTS.
2. ALL CABLE PENETRATIONS THROUGH WALLS, CEILINGS, OR ROOF SHALL BE SLEEVED WITH CONDUIT AND BUSHINGS ON BOTH ENDS.
3. ALL EMPTY CONDUITS SHALL HAVE A PULL STRING.
4. EXPOSED CABLE SHALL BE INSTALLED PARALLEL AND PERPENDICULAR TO SURFACES OR EXPOSED STRUCTURAL MEMBERS AND FOLLOW SURFACE CONTOURS WHERE POSSIBLE. ANY CABLES NOT INSTALLED ALONG THE CONTOURS OF THE STRUCTURE SHALL BE ENCASED IN CONDUIT WITH BUSHINGS
5. CABLES SHALL BE SECURED AND SUPPORTED AT INTERVALS NOT EXCEEDING 30" AND NOT MORE THAN 6" FROM CABINETS, BOXES, FITTINGS AND TERMINATIONS.
6. IN ADDITION TO CONDUIT SHOWN FOR EMS A, ALL CABLING SHALL BE INSTALLED FROM EMS A PANEL/WIREWAY TO THE JOIST. ALL CONDUIT STUB UPS SHALL HAVE BUSHINGS AND PULL STRINGS.
7. IN ADDITION TO CONDUIT SHOWN FOR EMS B, ALL CABLING SHALL BE INSTALLED FROM EMS B TO THE ACCESSIBLE CEILING SPACE. ALL CONDUIT STUB UPS SHALL HAVE BUSHINGS AND PULL STRINGS.
8. ALL TEMPERATURE AND HUMIDITY SENSORS SHALL HAVE CABLING TO BE INSTALLED IN CONDUIT TO ABOVE THE ACCESSIBLE CEILING OR TO THE JOIST WITH BUSHINGS AT THE CONDUIT TERMINATION.
9. EXPOSED RUNS OF CABLES SHALL BE ENCASED IN CONDUIT IF MOUNTED BELOW JOIST OR ABOVE ACCESSIBLE CEILINGS.
10. ELECTRICAL CONTRACTOR SHALL LABEL EACH END OF ALL LOW VOLTAGE CONDUCTORS INSTALLED BY ELECTRICAL CONTRACTOR INCLUDING CONDUCTORS TERMINATED BY OTHERS.

EMS NOTES

1. ALL EMS EQUIPMENT IS SUPPLIED BY PUBLIX. INSTALLED AND WIRED BY ELEC. CONTRACTOR (U.O.N.)
2. ONLY THE FOLLOWING MULTI-CONDUCTOR CABLES ARE APPROVED. NO SUBSTITUTIONS PERMITTED.

MANUFACTURER: PART NUMBER: COLOR CODE:

COM A NETWORK (24 GAUGE / 2 CONDUCTOR / SHIELDED)

ALPHA	P/N 2400C	BLACK & CLEAR
BELDEN	P/N 8641	BLACK & CLEAR
CAROL	P/N C2513A	BLACK & CLEAR

LENNOX PRODIGY NETWORK (22 GAUGE / 2 CONDUCTOR / SHIELDED)

ALPHA	P/N 2401C	BLACK & CLEAR
BELDEN	P/N 8761	BLACK & CLEAR
CAROL	P/N C2514A	BLACK & CLEAR

SENSOR APPLICATIONS (18 GAUGE / 4 CONDUCTOR / SHIELDED)

ALPHA	P/N 2424C	BLACK, RED, WHITE & GREEN
BELDEN	P/N 9418	BLACK, RED, WHITE & GREEN
EEC	P/N 18348	BLACK, RED, WHITE & GREEN

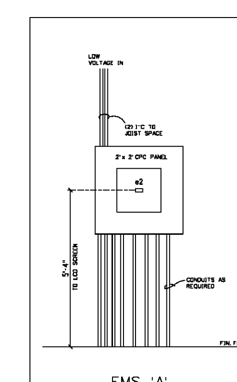
SENSOR APPLICATIONS (18 GAUGE/ 2 CONDUCTOR / SHIELDED)

ALPHA	P/N 2421C	BLACK & CLEAR
BELDEN	P/N 8760	BLACK & CLEAR
EEC	P/N 18308	BLACK & CLEAR

3. MARK EACH END OF ALL CONDUCTORS USING DESIGNATED PLAN SYMBOLS AND LABELS. MARKERS SHALL BE THE PERMANENT TYPE. EVERYTHING MUST BE LABELED. EACH END SHALL BE 8'-0" LONG AFTER ENTERING TERMINATION CABINET
4. THE ELECTRICIAN IS TO PROVIDE WIRE CONNECTIONS ACCORDING TO THE FOLLOWING: (NO SUBSTITUTIONS)

CONTACTOR	RED – LATCHED BLACK – UNLATCHED WHITE – COMMON
V.A.V.'S	RED – CLOCKWISE BLACK – COUNTERCLOCKWISE WHITE – COMMON
HUMIDITY SENSOR	RED – P(ositive) GREEN – O(ut) BLACK – NEGATIVE & GROUND
4C SHIELDED CABLES	BLACK & WHITE – TEMP. PROBES RED & GREEN – DEFROST TERMINATION
REVERSE AIR DEFROST	YELLOW & ORANGE
PHOTO CELL (supplied by Publix)	WIRE ACCORDING TO COLORS PROVIDED

5. ALL •14 THHN SHALL BE STRANDED (U.O.N.).
6. ALL MULTI-CONDUCTOR CABLE IS LOW VOLTAGE. ALL •14 THHN IS HIGH VOLTAGE. DO NOT MIX HIGH AND LOW VOLTAGE CONDUCTORS IN SAME CONDUIT.
7. DO NOT SPLICE MULTI-CONDUCTOR CABLE.
8. THE EMS IS TO BE INSTALLED AND OPERATIONAL TWO WEEKS PRIOR TO START UP OF THE HVAC SYSTEM. FAILURE TO COMPLETE EMS INSTALLATION WILL RESULT IN DELAY OF HVAC START UP.
9. THIS DRAWING IS INTENDED AS A SCHEMATIC REPRESENTATION AND THE CONTRACTOR IS TO REFER TO DWG. E5 FOR EXACT REQUIREMENTS OF INDIVIDUAL SYSTEMS FOR CONDUCTOR QUANTITY AND CONDUIT RUNS.
10. LEAVE 8'-0" LOOP OF MULTI-COND. CABLE AT ALL REFRIGERATION RACKS AND AC UNITS.



EMS 'A'

SCALE = 1/8" = 1'-0"

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ELECTRICAL EMS PLAN
EAST COBB PUBLIX - #1745
EAST COBB CROSSING SHOPPING CENTER
ROSEWELL ROAD
MARIETTA, GA 30062

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