NEW PANEL B

LOCATION: DELI/BAKERY AREA
VOLTAGE: 208Y/120V
TRIM: FLUSH
MAIN: 225A MLO
SYSTEM: 3φ, 4W
BUS RATING: 225A
CONN. LOAD: 32.6 KVA
FEED: TOP
GROUND BUS: YES

EMS	CKT	LOAD SERVED	COND	PHASE	NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	LOAD SERVED	CKT	EMS
–	1	SPARE	–	–	–	–	20/1	–	510			M	20/1	3/4"	#12	#12	#12	(M9) DELI/BAKERY COOLER FAN COIL	2	–
–	3	REFRIGERATED TABLE REC	3/4"	#12	#12	#12	20/1	K		480	720		R	20/1	3/4"	#12	#12	DELI/BAKERY FRZR HEAT TAPE	4	–
–	5	DIGITAL MENU BOARD	3/4"	#12	#12	#12	20/1	K				540	720	R	20/1	3/4"	#12	#12	#12	DELI/BAKERY REC	6	–
–	7	SPARE	–	–	–	–	20/1	–	500					K	20/1	3/4"	#12	#12	#12	PHOTOCAKE REC	8	–
–	9	BREADING STATION	3/4"	#12	#12	#12	20/1	K		1080	2000			K	20/1	3/4"	#12	#12	#12	PHOTOCAKE REC	10	–
–	11	SPARE	–	–	–	–	20/1	–				–		–	20/1	–	–	–		SPARE	12	–
–	13	SPARE	–	–	–	–	20/1	–	600					C	20/1	3/4"	#12	#12	#12	DELI/BAKERY HOOD CONTROL	14	–
4	15	DELI/ BAKERY LIGHTING	3/4"	#12	#12	#12	20/1	L		390	1056			M	20/1	3/4"	#12	#12	#12	DELI/BAKERY HOOD FAN KH-1	16	–
4	17	DELI/ BAKERY LIGHTING	3/4"	#12	#12	#12	20/1	L				468	600	C	20/1	3/4"	#12	#12	#12	DELI/BAKERY HOOD CONTROL	18	–
–	19	SPARE	–	–	–	–	20/1	–	1056					M	20/1	3/4"	#12	#12	#12	DELI/BAKERY HOOD FAN KH-2	20	–
–	21	SPARE	–	–	–	–	20/1	–				–		–	20/1	–	–	–		SPARE	22	–
–	23	HMS CASE MONITORS	3/4"	#12	#12	#12	20/1	R				720		–	20/1	–	–	–		SPARE	24	–
–	25	SPARE	–	–	–	–	20/1	–	805					K	20/1	3/4"	#12	#12	#12	DELI/BAKERY WRAPPER	26	–
–	27	SPARE	–	–	–	–	20/1	–		240				K	20/1	3/4"	#12	#12	#12	AUTOMATIC SLICER	28	–
–	29	SPARE	–	–	–	–	20/1	–			713			K	20/1	3/4"	#12	#12	#12	BREAD SLICER	30	–
–	31	(L1) D/B FREEZER FAN COIL-FAN	3/4"	#12	#12	#12	15/2	M	707 1000					K	20/1	3/4"	#12	#12	#12	MANUAL SLICERS	32	–
–	33	"		#12				M		707				–	20/1	–	–	–		SPARE	34	–
–	35	SPARE	–	–	–	–	20/1	–				–		–	20/1	–	–	–		SPARE	36	–
–	37	DELI/ BAKERY (RTU-DB)	1"	#6	#6	#10	60/3	A	5682 600					K	20/1	3/4"	#12	#12	#12	SCALE RECEPTACLES	38	–
–	39	"		#6				A		5682				–	20/1	–	–	–		SPARE	40	–
–	41	"		#6				A			5682 5682			R	20/1	3/4"	#12	#12	#12	FLYTRAP	42	–

INTERRUPT RATING: 10,000 AIC — 11760 | 10855 | 9983 — FROM: NEW PANEL MDP3 VIA 200A BREAKER

LOADS (IN VA)	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
LIGHTING	858	1.25	1073
RECEPTS TO 10 KVA	2700	1.0	2700
RECEPTS REMAINING	0	0.5	0
SPACE HEATING	0	0.0	0
AIR CONDITIONING	17046	1.0	17046

LOADS	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
NON-SEASONAL MOTORS	4036	1.0	4036
LARGEST MOTOR	3816	0.25	954
WATER HEATING	0	1.0	0
KITCHEN EQUIP.	6758	0.65	4393

REMAINING CONTINUOUS LOADS	1200	1.25	1500
REMAINING NON-CONTINUOUS LOADS	0	1.0	0
MISC. DEMAND LOADS	0	1.0	0
TOTAL CONNECTED LOAD	32.6 KVA		90.6 AMPS
TOTAL DEMAND LOAD	31.7 KVA		88.1 AMPS

Note 2. Provide GFIC rated breaker(s) for circuit(s) 5
Note 3. Provide HACR rated breaker(s) for circuit(s) 37

NEW PANEL D

LOCATION: DELI/BAKERY AREA
VOLTAGE: 208Y/120V
TRIM: FLUSH
MAIN: 400A MLO
SYSTEM: 3φ, 4W
BUS RATING: 400A
CONN. LOAD: 129 KVA
FEED: TOP
GROUND BUS: YES

EMS	CKT	LOAD SERVED	COND	PHASE	NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	LOAD SERVED	CKT	EMS
–	1	MIWE OVEN N1 POWER	1"	#6	#6	#10	60/3	K	5367			–	20/1	–	–	–	–	SPARE	2	–
–	3	"		#6				K		5367		–	20/1	–	–	–	–	SPARE	4	–
–	5	"		#6				K			5367 5998	K	60/3	1"	#6	#6	#10	ELECTRIC FRYER	6	4
–	7	MIWE OVEN N1 POWER SHUNT TRIP	–	–	–	–	–	–	5998			K							8	–
4	9	ELECTRIC FRYER	1"	#6	#6	#10	60/3	K		5998	5998	K				#6		"	10	–
–	11	"		#6				K				5998	–	–	–	–	–	ELECTRIC FRYER SHUNT TRIP	12	–
–	13	"		#6				K	5998			–	60/3	–	–	–	–	SPARE	14	–
–	15	ELECTRIC FRYER SHUNT TRIP	–	–	–	–	–	–				–		–	–	–		"	16	–
–	17	SPARE	–	–	–	–	20/1	–				–		–	–	–		"	18	–
–	19	6' PF-6 HC-54 HOT DELI	3/4"	#10	#10	#10	30/3	K	2336			–	20/1	–	–	–	–	SPARE	20	–
–	21	"		#10				K		2336 6449		K	60/3	1"	#6	#6	#10	DISHWASHER CONNECTION	22	–
–	23	"		#10				K			2336 6449	K			#6			"	24	–
–	25	8' HOT BAR	1"	#6	#6	#10	60/3	K	4323 6449			K			#6			"	26	–
–	27	"		#6				K		4323		–	–	–	–	–	–	MIWE OVEN N2 POWER SHUNT TRIP	28	–
–	29	"		#6				K			4323 5200	K	40/3	3/4"	#8	#8	#10	MIWE OVEN N2 POWER	30	–
–	31	COMBI THERM	1"	#6	#6	#10	60/3	K	5488 5200			K			#8			"	32	–
–	33	"		#6				K		5488 5200		K			#8			"	34	–
–	35	"		#6				K			5488	–	20/1	–	–	–	–	SPARE	36	–
–	37	COMBI THERM SHUNT TRIP	–	–	–	–	–	–	3843			K	40/3	3/4"	#8	#8	#10	(GFCI) AIR FRYER	38	–
–	39	SPARE	–	–	–	–	20/1	–		3843		K			#8			"	40	–
–	41	SPARE	–	–	–	–	20/1	–			3843	K			#8			"	42	–

INTERRUPT RATING: 10,000 AIC — 43002 | 43002 | 43002 — FROM: NEW PANEL MDP3 VIA 400A BREAKER

LOADS (IN VA)	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
LIGHTING	0	1.25	0
RECEPTS TO 10 KVA	0	1.0	0
RECEPTS REMAINING	0	0.5	0
SPACE HEATING	0	0.0	0
AIR CONDITIONING	0	1.0	0

LOADS	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
NON-SEASONAL MOTORS	0	1.0	0
LARGEST MOTOR	0	0.25	0
WATER HEATING	0	1.0	0
KITCHEN EQUIP.	129006	0.65	83854

REMAINING CONTINUOUS LOADS	0	1.25	0
REMAINING NON-CONTINUOUS LOADS	0	1.0	0
MISC. DEMAND LOADS	0	1.0	0
TOTAL CONNECTED LOAD	129 KVA		358.4 AMPS
TOTAL DEMAND LOAD	83.9 KVA		232.9 AMPS

Note 2. Provide Lockable breaker(s) for circuit(s) 1, 6, 9, 22, 30, 31

GROUND-FAULT CIRCUIT-INTERRUPTER (GFCI) PROTECTION REQUIREMENTS: PROVIDE GFCI PROTECTION IN STRICT ACCORDANCE WITH NEC SECTIONS 210.8(B), 210.8(D), AND 422.5. GFCI PROTECTION SHALL BE OF THE TYPE REQUIRED BY THE NEC FOR THE APPLICABLE RECEPTACLE, BRANCH CIRCUIT, OUTLET, OR APPLIANCE AS DICTATED BY THE GOVERNING CODE EDITION. CLASS A PERSONNEL PROTECTION (4MA-6MA TRIP THRESHOLD) SHALL BE PROVIDED AS MANDATED BY THE APPLICABLE NEC. WHERE CLASS A GFCI PERSONNEL PROTECTION IS REQUIRED, GROUND-FAULT PROTECTION OF EQUIPMENT (GFEP) OR OTHER EQUIPMENT-LEVEL PROTECTION SHALL NOT BE USED AS A SUBSTITUTE. THE CONTRACTOR SHALL CONFIRM ALL INSTALLATION REQUIREMENTS WITH THE MANUFACTURER'S SPECIFICATIONS, PRODUCT LISTINGS, AND LOCAL AMENDMENTS, AND COORDINATE FINAL INSTALLATION WITH THE AUTHORITY HAVING JURISDICTION (AHJ). IF GROUND FAULT TYPE RECEPTACLES ARE NOT AVAILABLE OR NOT READILY ACCESSIBLE, GROUND FAULT PROTECTION SHALL BE PROVIDED AT THE CIRCUIT BREAKER. GFCI BREAKERS REQUIRE A DEDICATED NEUTRAL CONDUCTOR (NOT SHARED) TO OPERATE PROPERLY.

DELI BAKERY ELECTRICAL POWER PLAN GENERAL NOTES

1. N/A
2. SEE MECHANICAL DRAWINGS FOR KITCHEN HOOD SCHEDULE. ELECTRICAL CONTRACTOR TO MAKE FINAL CONNECTIONS TO EXHAUST FAN, LIGHT, & SWITCHES.
3. PROVIDE SEAL-TITLE FLEX ON ALL DELI/BAKERY EQUIPMENT/CASES: 3 FT. (MIN.) ON FLOOR CIRCUITS AND 4 FT. (MIN.) ON WALL CIRCUITS.
4. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING FOR SHUNT TRIP SYSTEM AT EXHAUST HOOD AND EQUIPMENT.
5. PROVIDE 1-½" OF FLEX CONDUIT AND A 2"X4" BOX WITH A DUPLEX RECEPTACLE.
6. N/A
7. DIMENSIONS LEFT TO RIGHT ARE SHOWN FROM INTERIOR SURFACE OF EXTERIOR MASONRY BUILDING WALLS. DIMENSIONS FRONT TO BACK ARE SHOWN FROM COLUMN LINE 2.
8. MOUNT FLY TRAPS AT 5'-0" ABOVE THE FINISHED FLOOR IN THE DELI/BAKERY AND PRODUCE PREP.
9. TELEPOWER POLES TO BE FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR. FINAL LOCATION TO BE COORDINATED WITH THE FOOD LION CONSTRUCTION MANAGER DURING TIME OF STORE SET. TELEPOWER POLES TO BE CLEAR ANODIZED ALUMINUM. PROVIDE SUPPORTS AT BAR JOIST.
10. ALL DUPLEX RECEPTACLES LOCATED IN THE DELI/BAKERY SHALL BE GFCI AND HAVE "IN-USE" WATERPROOF RECEPTACLE COVER.
11. N/A
12. N/A
13. ELECTRICAL CONTRACTOR SHALL PROVIDE ENOUGH SHIELDED CABLE TO DAISY CHAIN ALL CASE CONTROLS ON THAT REFRIGERATION CIRCUIT.
14. (1) 4-CONDUCTOR SHIELDED CABLE (#18 AWG).
15. ALL 125-VOLT THROUGH 250-VOLT RECEPTACLES SUPPLIED BY SINGLE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 50 AMPERES OR LESS, AND ALL RECEPTACLES SUPPLIED BY THREE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 100 AMPERES OR LESS, INSTALLED IN THE LOCATIONS SPECIFIED IN 210.8(B)(1) THROUGH (B)(12) SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL.

NOTE THAT THE ISOLATED GROUNDING TYPE RECEPTACLES AND CLOCK TYPE RECEPTACLES LOCATED IN THE KITCHEN/SERVING AREA SHALL BE PROTECTED BY GROUND FAULT TYPE CIRCUIT BREAKERS RATHER THAN GROUND FAULT TYPE RECEPTACLES SINCE THESE RECEPTACLES ARE NOT AVAILABLE AS GROUND-FAULT TYPE RECEPTACLES. GFCI BREAKERS REQUIRE A DEDICATED NEUTRAL (NOT SHARED) TO OPERATE PROPERLY.

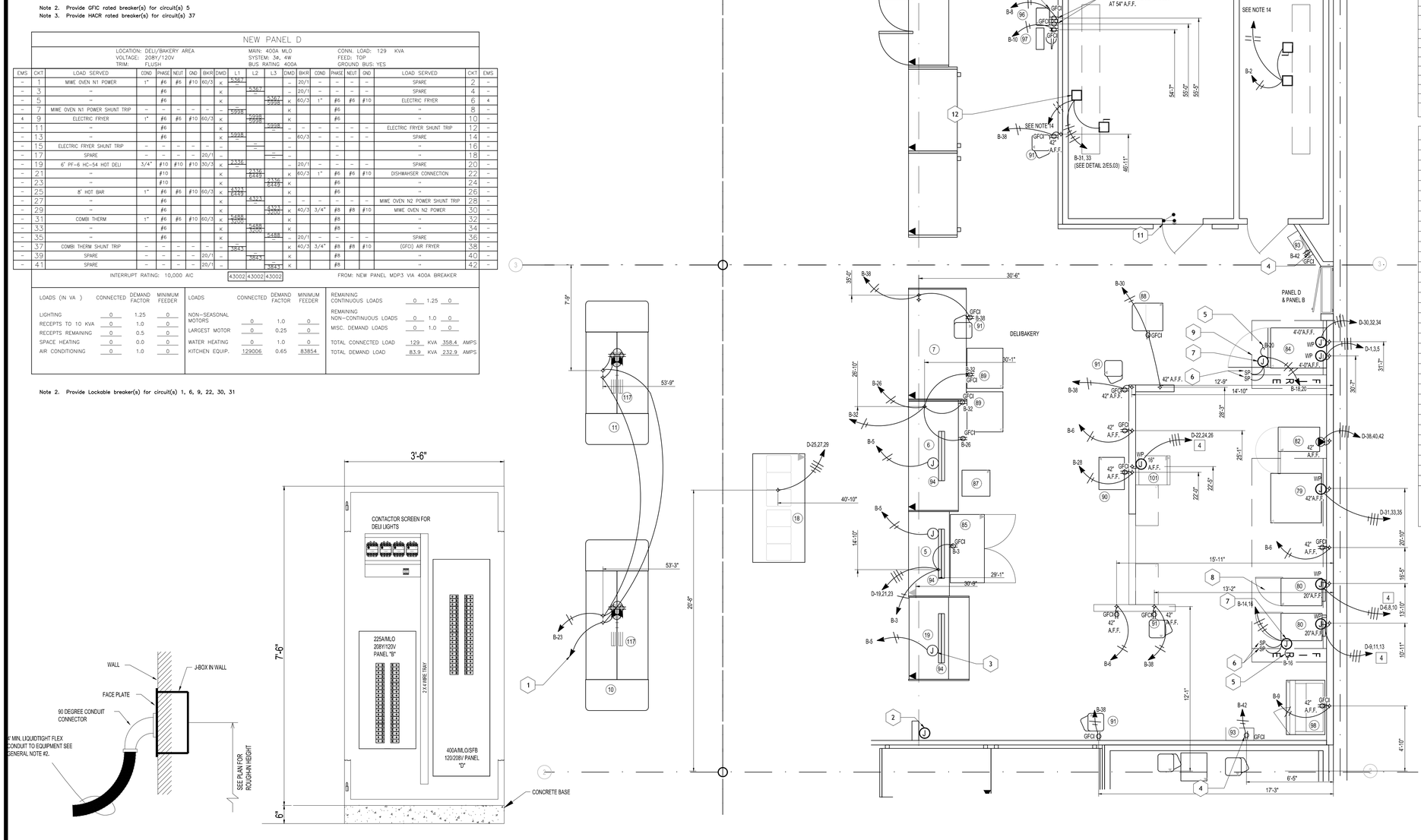
DELI BAKERY ELECTRICAL POWER PLAN KEY NOTES (F)

1	VERIFY MOUNTING WITH FOOD LION CONSTRUCTION MANAGER. MONITORS SHALL BE MOUNTED BACK TO BACK ABVE HMS CASE. POWER AND DATA SHALL BE RUN IN TWO CONDUITS UNDERSLAB TO UNDER CASE (ONE CONDUIT FOR POWER AND ONE CONDUIT FOR DATA, SEPARATE FROM CASE CONDUITS). DATA SHALL BE CAT-5e CABLES TO COMMUNICATIONS CABINET BY ELECTRICAL CONTRACTOR, TYPICAL FOR BOTH ISLAND HMS CASES.
2	4'-0" A.F.F. ANGUL SYSTEM. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
3	J-BOX FOR DELI MENU BOARD CONNECTION ABOVE CEILING. INSTALLATION OF DIGITAL MENU BOARD AND RECEPTACLES BY OTHERS. TYPICAL OF (3).
4	5'-0" A.F.F. SEE DETAIL 5/E2.01
5	SEE SHEET E1.07 FOR CONTINUATION
6	SWITCHES FACTORY INSTALLED ON HOOD
7	4 SQ. J- BOX FOR HOOD...SEE SHEETS M4.01 FOR ELECTRICAL SPECS. AND E6.02 FOR WIRING DIAGRAM.
8	KITCHEN HOOD KH-1. SEE MECH. DWGS.
9	KITCHEN HOOD KH-2. SEE MECH. DWGS.
10	NOT USED.
11	SEE NOTE #5/E1.03
12	CASE CONTROLLER ENCLOSURE MOUNTED ON TOP OF WALK-INS (TYP). COORDINATE EXACT LOCATION WITH FOOD LION MAINTENANCE SUPERVISOR

EQUIPMENT SCHEDULE

No.	DESCRIPTION
	*** CASES ***
5	HOT DELI CASE
6	SELF-SERVE COLD DELI
7	SERVICE/SELF-SERVE DELI COLD DELI
8	SELF-SERVE BAKERY CASE
9	3 DOOR NARROW REACH IN FROZEN BAKERY CASE
10	HMS NARROW ISLAND
11	HMS NARROW ISLAND
18	HOT WING BAR
19	SUSHI
	*** ELECTRIC COOKING/HOLDING EQUIPMENT ***
79	COMBITHERM OVEN WITH STAND
80	FRYER AND FILTER (SEE NOTE No. 2)
81	
82	AIR FRYER
83	
84	MIWE OVEN
85	REFRIGERATED TABLE
86	
	*** ELECTRIC PREP EQUIPMENT ***
87	WRAPPING MACHINE (SINGLE ROLL W/MOUNTING AXLE) WITH TIMER
88	BREAD SLICER
89	SLICER (MANUAL)
90	SLICER (AUTOMATIC)
91	SCALE w/BUILT IN PRINTER
93	FLY TRAP (SEE NOTE No. 8)
94	4.3" VIDEO MONITOR
95	PHOTOCAKE CONTROLLER
96	PHOTOCAKE TOUCHSCREEN
97	PHOTOCAKE PRINTER/SCANNER
98	BREADING STATION
101	DISHWASHER
117	MONITOR 37"

EMS LOAD F
REFER TO SHEET E6.03 FOR EMS LOAD SCHEDULE.



03 POWER CONNECTION DETAIL
NOT TO SCALE

02 DELI/BAKERY PANEL ARRANGEMENT
NOT TO SCALE

01 ENLARGED DELI/BAKERY ELECTRICAL POWER PLAN
SCALE: 1/4"=1'-0"

INTERPLAN
INTERPLAN LLC
AR99238
CA 8660
ARCHITECTURE
ENGINEERING
PERMITTING
220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:

THIS DOCUMENT IS NOT FOR REGULATORY APPROVAL, PERMITTING, OR CONSTRUCTION.

90% REVIEW SET

NO DATE REMARKS
REVISIONS

PHASE III–
FOOD LION
INTERIOR BUILD
OUT

TIMBER DEVELOPMENT CORPORATION
8113 BALL GROUND HWY
BALL GROUND, GA 30107

PROJECT NO: 2026.0771
DATE: 11/13/26

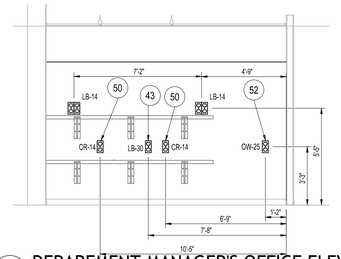
E4.01
DELI_BAKERY ELECTRICAL POWER PLAN

CHECKED: SN DRAWN: NA

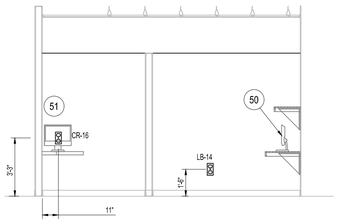
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RYANAT - 11/13/2026 3:25:17 PM

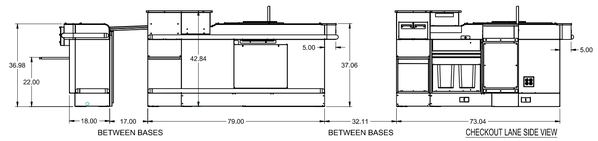
NOTE: STAND LIGHTS PROVIDED BY GENERAL CONTRACTOR. CONTACT : SOUTHEASTERN PRODUCTS 1-800-237-3944 FOR WIRING REQUIRSMENTS COORDINATE WITH FOOD LION CONSTRUCTION MANAGER.



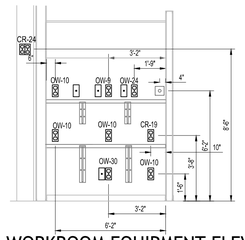
12 DEPAREMENT MANAGER'S OFFICE ELEVATION
SCALE: 1/4"=1'-0"



11 DEPAREMENT MANAGER'S OFFICE ELEVATION
SCALE: 1/4"=1'-0"



10 CHECKOUT/REGISTER DETAILS
SCALE: 1/4"=1'-0"



09 WORKROOM EQUIPMENT ELEVATION
SCALE: 1/4"=1'-0"

CHECKOUT WIRING LEGEND

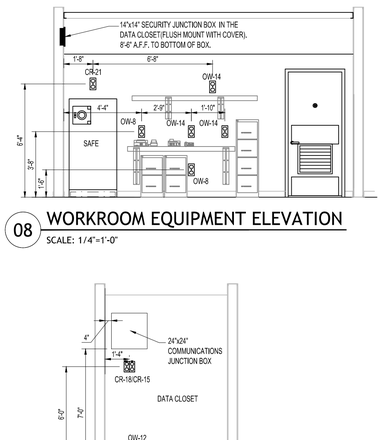
SYMBOL	DESCRIPTION
	DIRTY CIRCUIT No. 1 (BELT MOTOR, STAND LIGHT, GENERAL RECEPTACLES)
	POWER FOR VISU COOLER(S) AND CANDY MERCHANDISER LIGHTS
	CLEAN CIRCUIT No. 1 (REGISTER, CATALINA, DEBIT CARD, SCANNER AND SCALE, SPARE RECEPTACLE)

CHECKOUT INSTALLATION NOTES

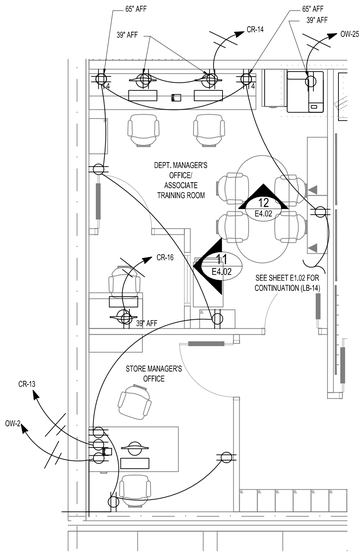
1. SEE SHEET E4.03 FOR WORKROOM, CUSTOMER SERVICE AND CHECKOUT COMMUNICATION WIRING.
2. MOUNT QUAD OUTLET FLUSH IN THE CHECKOUT STAND FOR THE VISU COOLER(S) AND LED CANDY LIGHTING AT THIS LOCATION. RECEPTACLE TO BE MOUNTED 1'-4" A.F.F. IN THE SIDE NEAREST THE CASHIER AND ACCESSIBLE TO THE VISU COOLER PIGTAIL CONNECTION. FACE PLATE TO BE PAINTED TO MATCH CHECKOUT STAND COLOR. COORDINATE LOCATION WITH PRE-WIRED CONTROLS MOUNTED INSIDE THE CHECKOUT.
3. CASH REGISTER CIRCUITS SHALL BE PROVIDED WITH DEDICATED NEUTRAL AND GREEN ISOLATED GROUND.
4. BX CABLES SHALL BE INSTALLED WITH INSULATED THROATS AND APPROVED CONNECTORS.

CUSTOMER SERVICE/WORKROOM/DEPARTMENT MANAGER EQUIPMENT SCHEDULE

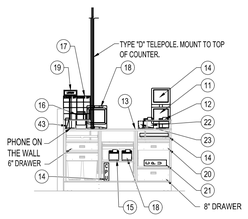
No.	DESCRIPTION
	"CUSTOMER SERVICE EQUIPMENT"
11	REGISTER DISPLAYS
12	CATALINA COUPON PRINTER
13	DEBIT/VISA READER
14	WESTERN UNION WORKSTATION (PC, MONITOR, & KEYBOARD)
15	WESTERN UNION PRINTER
16	MONEY ORDER EQUIPMENT
17	TICKET DISPENSER (SC, NC, GA, FL & DE ONLY)
18	ON LINE LOTTERY (NC, DE, TN, SC, VA MD, GA & FL ONLY)
19	LOTTERY DISPLAY
20	CASH DRAWER
21	REGISTER CPU
22	PULSE PRINTER
23	HAND SCANNER
24	
25	
	CASH COUNT/"WORKROOM COMPUTER EQUIPMENT"
26	WINDOWS SERVER WORK STATION (MONITOR, KEYBOARD, & MOUSE)
26-D	WINDOWS SERVER WORK STATION (PC)(NOT SHOWN – LOCATED IN DATA CLOSET)
27	
27-D	
28	
29-D	SECURITY SURVEILLANCE (DVR)
30-D	CAT-5 ROUTERS (NOT SHOWN – LOCATED IN DATA CLOSET)
31-D	BACK-UP MODEM (NOT SHOWN – LOCATED IN DATA CLOSET)
32	MUZAK SYSTEM
33-D	CATALINA COUPON SYSTEM
34-D	BOSS PC FOR SELF-CHECKOUT STANDS-OPTIONAL (NOT SHOWN-LOCATED IN DATA CLOSET)
35	LEXMARK PRINTER (LOCATED UNDER COUNTER IN WORKROOM
36	
37	
	"OTHER EQUIPMENT"
38	FIRST AID KIT
39	U.P.S. UNIT
40	U.P.S. SWITCH
41	SAFE
42	MONEY COUNTER & PRINTER
43	PHONE
44	CALCULATOR
45	(4) DRAWER FILE CABINET
46	(2) DRAWER FILE CABINET
47	
48	COMMUNICATIONS JUNCTION BOX
49	CONFERENCE TABLE WITH 6 CHAIRS
50	DEPARTMENT MANAGER'S COMPUTER
51	ASSOCIATE TRAINING COMPUTER
52	LEXMARK MULTI FUNCTION PRINTER
53	STORE MANAGER'S COMPUTER
54	STORE MANAGER'S DESK AND CHAIRS
55	6"x 6" COMMUNICATIONS JUNCTION BOX
56	ALUMINUM PRICE-MARKING CART
57	TABLET CABINET



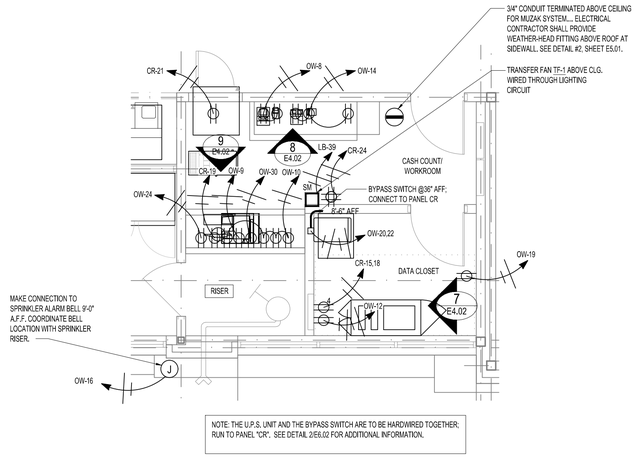
08 WORKROOM EQUIPMENT ELEVATION
SCALE: 1/4"=1'-0"



04 MANAGER'S OFFICE POWER PLAN
SCALE: 1/4"=1'-0"

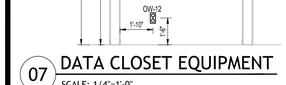


03 CUSTOMER SERVICE COUNTER ELEVATION
SCALE: 1/4"=1'-0"

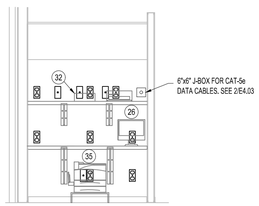


NOTE: THE U.P.S. UNIT AND THE BYPASS SWITCH ARE TO BE HARDWIRED TOGETHER; RUN TO PANEL "CR". SEE DETAIL 2/E6.02 FOR ADDITIONAL INFORMATION.

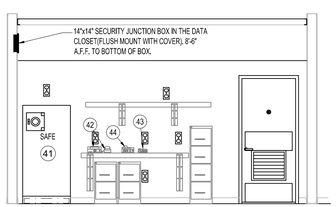
02 WORKROOM ELEVATION POWER PLAN
SCALE: 1/4"=1'-0"



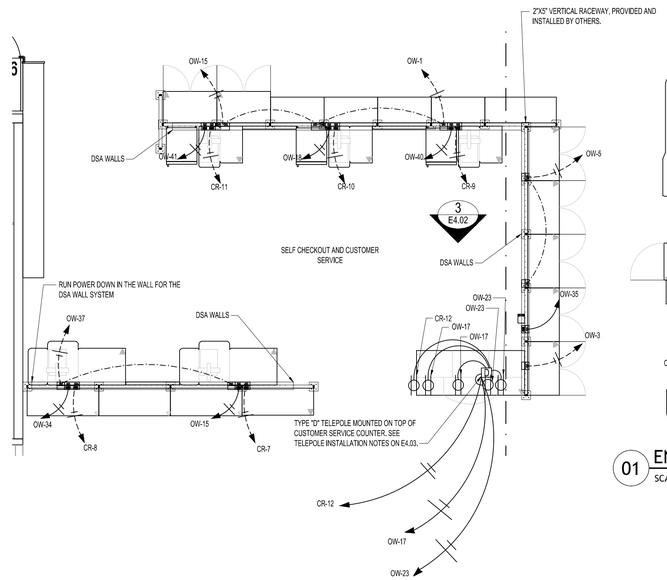
07 DATA CLOSET EQUIPMENT
SCALE: 1/4"=1'-0"

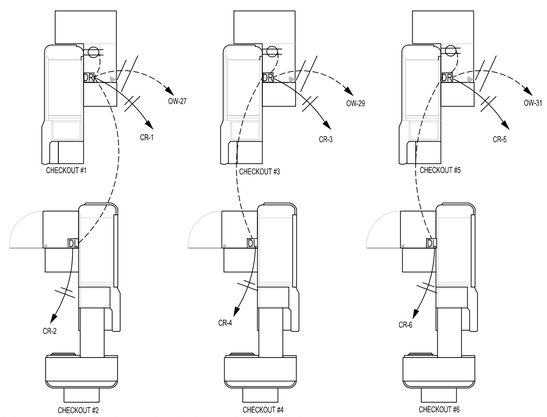


06 WORKROOM EQUIPMENT ELEVATION
SCALE: 1/4"=1'-0"



05 WORKROOM EQUIPMENT ELEVATION
SCALE: 1/4"=1'-0"





01 ENLARGED ELECTRICAL POWER PLAN
SCALE: 1/4"=1'-0"

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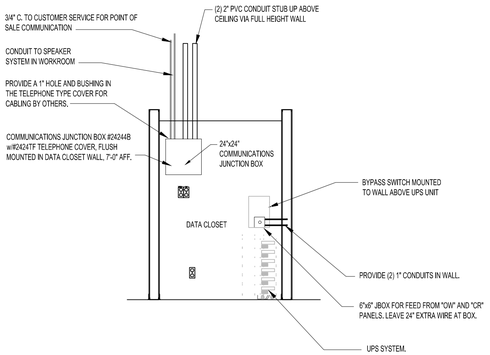
PROJECT NO: 2026.0771
DATE: 11/13/26

E4.02
WORKROOM AND REGISTER POWER PLAN

CHECKED: SN DRAWN: NA

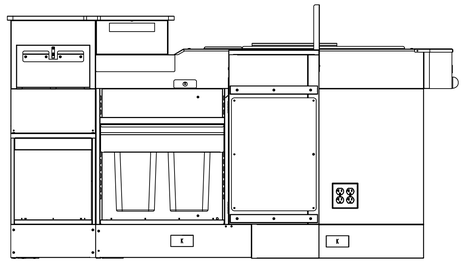
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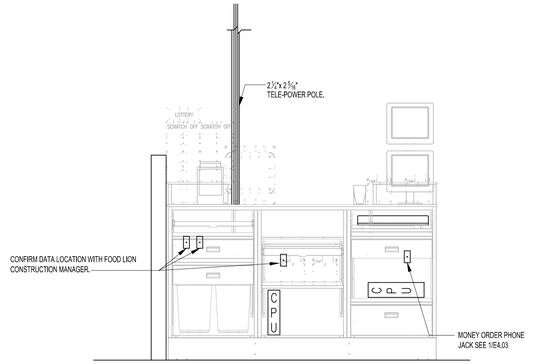
06 DATA CLOSET COMMUNICATION J-BOX ELEVATION

SCALE: 1/4"=1'-0"



05 SECTION AT REGISTER

SCALE: NTS



04 CUSTOMER SERVICE COUNTER ELEVATION

SCALE: NTS

WORKROOM REGISTER COMMUNICATIONS GENERAL NOTES

1. SEE SHEET E4.02 FOR WORKROOM AND CUSTOMER SERVICE REGISTER AND CHECKOUTS ELECTRICAL WIRING.
2. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE GROUNDING OF CHECKOUT COMMUNICATION LOOP TO THE NEAREST COLD WATER PIPE.
3. CHECKOUT COMMUNICATIONS CABLING & TERMINATIONS SHALL BE BY OTHERS.
4. SEE CAT-5E RISER NOTES & DETAILS ON SHEET E1.06 FOR MORE INFORMATION.
5. COORDINATE ALL FINAL INSTALLATION AND WORK WITH COMMUNICATION SHEET E1.06 AND FOOD LION CONSTRUCTION MANAGER TO PREVENT PULLING DUPLICATE RUNS.
6. PROVIDE INCOMING ONLY TELEPHONE AT EACH CHECKOUT.
7. ALL CAT-5e ETHERNET CABLES SHALL BE BELDEN CAT-5e. SEE SHEET E1.06 FOR MORE DETAIL INFORMATION.

TELEPOWER POLE INSTALLATION NOTES

1	CONDUITS FROM "CR" & "OW" SHALL BE AS FOLLOWS: (4) 2" CONDUITS FROM PANEL "CR" - TWO CHECKOUTS MAXIMUM PER CONDUIT. PROVIDE ADDITIONAL CONDUITS AS REQUIRED. (2) 1" CONDUIT FROM PANEL "OW" DEDICATED TO DIRTY POWER FOR BELT MOTOR, SENSOR-MATIC DEACTIVATION PADS & GENERAL RECEPTACLES.
2	CASH REGISTER CIRCUITS SHALL BE PROVIDED WITH DEDICATED NEUTRAL AND GREEN DEDICATED CIRCUIT.
3	BX CABLES SHALL BE INSTALLED WITH INSULATED THROATS AND APPROVED CONNECTORS.
4	ELECTRICAL CONTRACTOR SHALL ENSURE THAT THE TELEPOLES ARE INSTALLED SECURE AND PLUMB; TOP CONNECTION OF TELEPOLE TO BAR JOIST SHALL BE CONNECTED WITH A LEGRAND/WIREMOLD SLIDING SUPPORT, #E63204 (2-CHANNEL), THAT WILL ALLOW DEFLECTION OF THE BAR JOIST WITHOUT BOWING THE TELEPOLE.
5	INSTALL ADAPTER TO REGISTER STAN TOP. A HOLE IS PROVIDED IN REGISTER STAND TOP (AND COUNTER TOP AT CUSTOMER SERVICE) AT THE DESIRED LOCATION. THE ADAPTER MUST BE INSTALLED SO THAT POLES GROMMETED OPENING AND POWER CORD ARE FACING TOWARDS THE REAR OF THE STORE.
6	TELEPOLE CUT IN THE FIELD TO BE CUT AT THE TOP ONLY AND FILED SMOOTH.
7	NEW TELEPOLES TO BE FURNISHED & INSTALLED AS FOLLOWS: •• TELEPOLES AT CHECKSTANDS - FOOD LION VENDOR •• TELEPOLES IN SALES AREA (PRODUCE, WINE, CENTER STORE, ETC.) - ELECTRICAL CONTRACTOR. INSTALL TELEPOLES AFTER EQUIPMENT HAS BEEN SET. TELEPOLES SHALL BE PURCHASED THROUGH LOCAL LEGRAND/WIREMOLD DISTRIBUTOR. MODEL NUMBERS REFERENCED BELOW ARE FOOD LION SPECIFIC MODEL NUMBERS ASSIGNED BY LEGRAND/WIREMOLD. DISTRIBUTOR SHALL COORDINATE MODEL NUMBERS WITH LEGRAND/WIREMOLD. MODEL NUMBERS INCLUDE POLE ADAPTER, TRIM PLATE, (2) TEE CLAMPS. 2 ½"x2 ½" CLEAR ANODIZED ALUMINUM POLES UNLESS NOTED OTHERWISE. MOUNT WITH LARGER DIMENSION OF THE TELEPHONE RUNNING BACK TO FRONT.
8	COORDINATE EXACT TELEPOLE LOCATION WITH FOOD LION CONSTRUCTION MANAGER DURING TIME OF STORE SET.
9	REAR SECTION OF TELEPOLE IS FOR POWER, FRONT SECTION IS FOR COMMUNICATIONS.
10	ALL TELEPOLES SHALL BE ALUMINUM WITH A CLEAR ANODIZED FINISH.

MODEL #'S

BY ELECTRICAL CONTRACTOR (U.N.O.)

[A] FLAMP0573
- SPL AMDTP-415 15FT 2-CHANNEL POLE WITH (1) L5-20R, STANDARD GRAY BOOT
- 3x3 & 4x4 SLANT BINS

[B] FLAMP0574
- SPL AMDTP-415 15FT 2-CHANNEL POLE WITH (2) L6-20R (2 CIRCUITS), STANDARD GRAY BOOT
- 3x6 BIN, 3x6 BIN, 5x5 BERRY QUAD

[B2] FLAMP0746
- SPL AMDTP-415 15FT 2-CHANNEL POLE WITH (2) L6-20R (2 CIRCUITS), (1) DUPLEX RECEPTACLE (1 CIRCUIT), STANDARD GRAY BOOT
- 3x6 BIN, 3x6 BIN, 5x5 BERRY QUAD

[C] FLAMP0739
- SPL AMDTP-415 15FT 2-CHANNEL POLE WITH (2) L6-30R (2 CIRCUITS), STANDARD GRAY BOOT
- LARGE BERRY BIN
- CUT FRUIT ISLAND

[D] FLAMP0577
- SPL AMTC-415 15FT 2-CHANNEL POLE NO RECEPTACLE REQUIRED, STANDARD GRAY BOOT
- WING BAR
- TUB CASES
- CUSTOMER SERVICE COUNTER
- SELF-CHECKOUTS

[E1] FLAMP0741
- SPL AMDTP-415 15FT 2-CHANNEL POLE WITH (1) L14-20R SIMPLEX, STANDARD GRAY BOOT
- SELF-CONTAINED (SHORT) WINE CASE (IM-04-44-S)

[E2] FLAMP0742
- SPL AMDTP-415 15FT 2-CHANNEL POLE WITH (1) L14-30R, STANDARD GRAY BOOT
- SELF-CONTAINED (TALL) WINE CASE (IM-06-90-S)

[F] FLAMP0740
- SPL AMDTP-415 15FT 2-CHANNEL POLE WITH (1) 5-20R SIMPLEX, STANDARD GRAY BOOT
- PET FRESH
- OLIVE BAR

[S] E65392
- SPL AM CRV 15FT 1-CHANNEL SNAP-ON, NO RECEPTACLE REQUIRED,
- FOR USE WITH TYPE "D" FLAMP0577 TO ADD CHANNEL WHEN NEEDED,
- SELF-CHECKOUT
- GRAB & GO

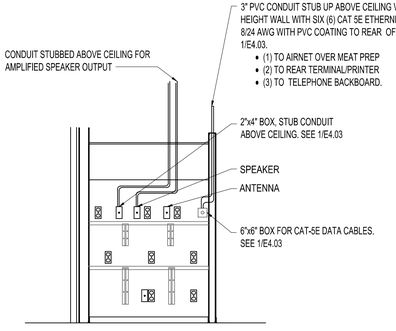
BY VENDOR

[DL] FLAMP0575 (LEFT HAND)
- SPL ALUMINUM 3-CHANNEL POLE WITH LANE LIGHT MOUNTING BRACKET #E63920 (2-1/4"x3-5/16")
- CHECKSTANDS, CUSTOMER SERVICE CHECKSTAND #1

[DR] FLAMP0576 (RIGHT HAND)
- SPL ALUMINUM 3-CHANNEL POLE WITH LANE LIGHT MOUNTING BRACKET #E63920 (2-1/4"x3-5/16")
- CHECKSTANDS

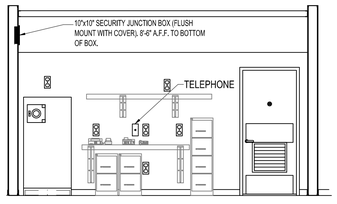
[X] FLAMPX
- WHEN EXTENSION IS NEEDED, USE #AMP0322 (2 CHANNEL) WITH SLIDING SUPPORT #E63204.

LEGRAND WIREMOLD AL#4010 2 CHANNEL ENCLOSED ALUM VERTICAL POLE FOR USE WITH SCO GRID WALL SYSTEM (NO SUBSTITUTIONS) HT REQUIRED



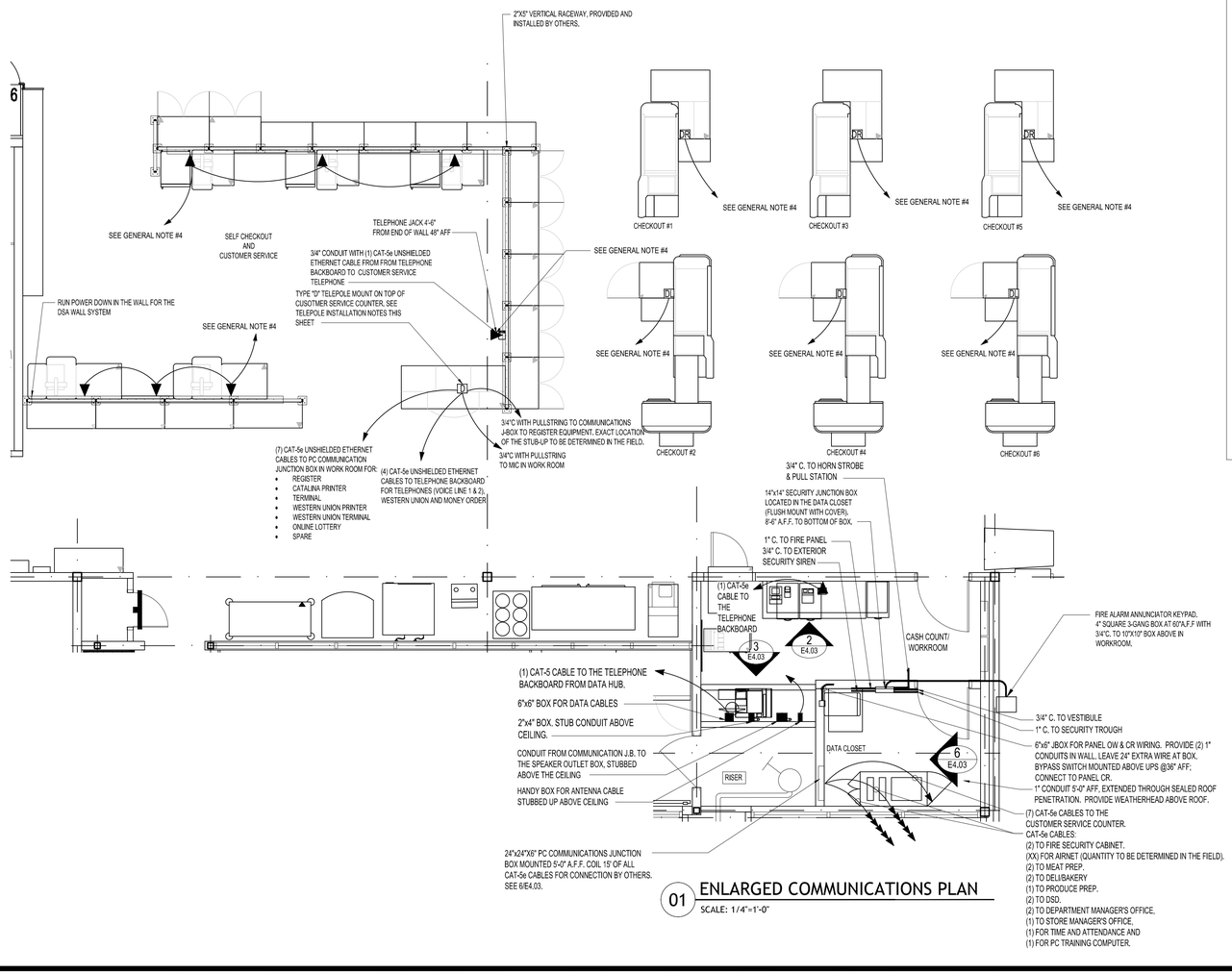
03 WORKROOM EQUIPMENT ELEVATION

SCALE: 1/4"=1'-0"



02 WORKROOM EQUIPMENT ELEVATION

SCALE: 1/4"=1'-0"



01 ENLARGED COMMUNICATIONS PLAN

SCALE: 1/4"=1'-0"

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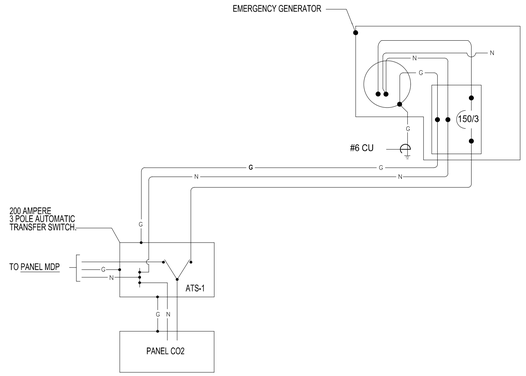
E4.03

WORKROOM AND REGISTER COMMUNICATIONS PLAN

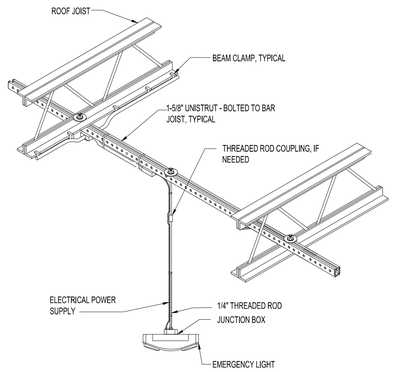
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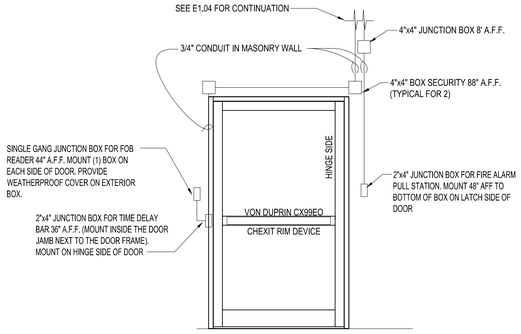
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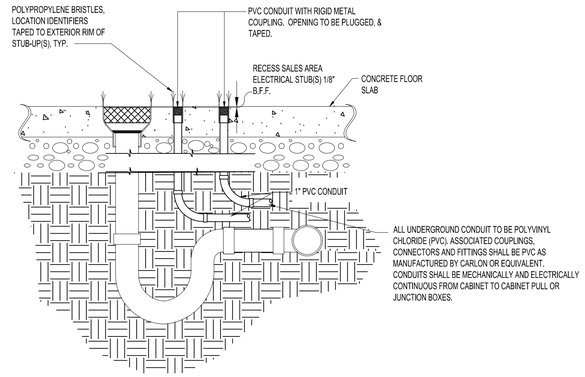
10 GROUNDING DIAGRAM FOR EMERGENCY GENERATOR SYSTEM
SCALE: NTS



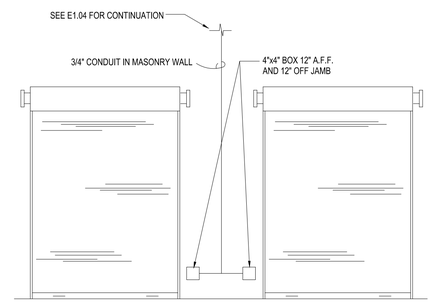
09 SUSPENDED LIGHT MOUNTING DETAIL
SCALE: NTS



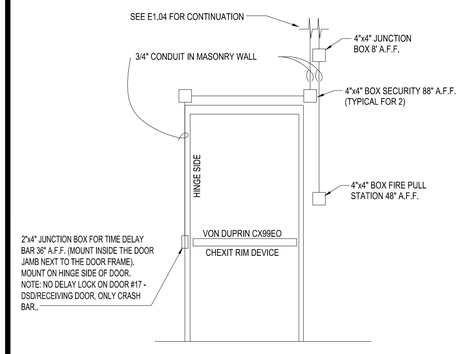
08 E-COMMERCE DOOR CONDUIT INTERIOR VIEW
SCALE: NTS



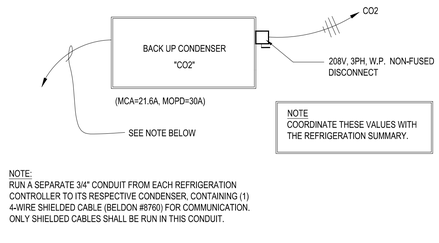
07 SALES FLOOR ELECTRICAL STUBS @ CASES
SCALE: NTS



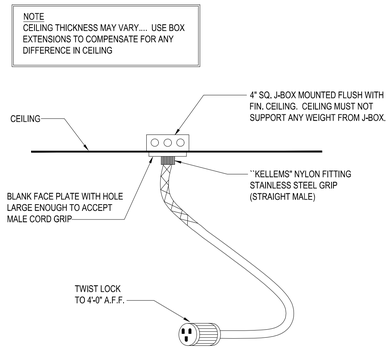
06 SECURITY CONDUIT - DETAIL #2
SCALE: NTS



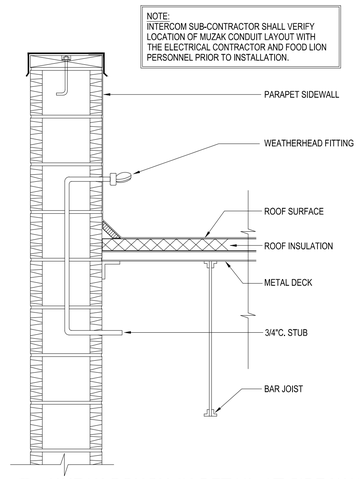
05 SECURITY CONDUIT - DETAIL #1 FOR EGRESS DOORS
SCALE: NTS



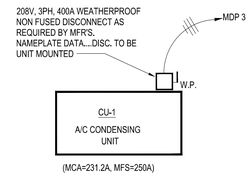
04 ELECTRICAL DETAIL FOR CONDENSERS ON ROOF
SCALE: NTS



03 HANGING TWIST LOCK DETAIL
SCALE: NTS



02 MUZAK ROUGH-IN DETAIL AT SIDE WALL
SCALE: NTS



01 ROOFTOP HVAC EQUIPMENT DETAIL
SCALE: NTS

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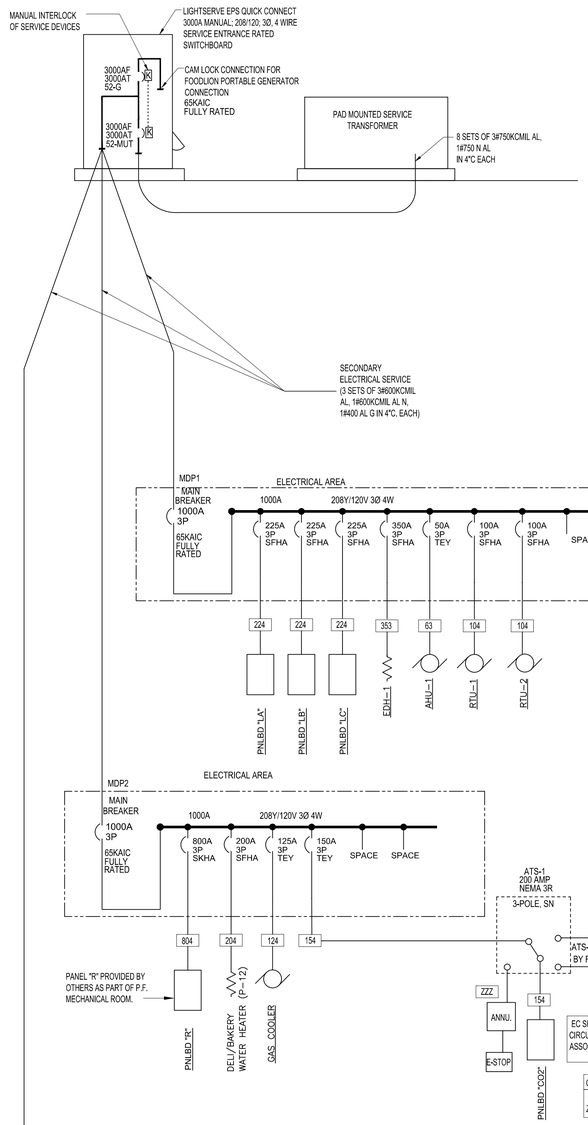
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E5.01
ELECTRICAL DETAILS

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01 ELECTRICAL ONE-LINE DIAGRAM

SCALE: NTS

ALL BREAKER SERVING HVAC EQUIPMENT SHALL BE HACR RATED.

NOTE: REFER TO SHEET E7.01 FOR GROUNDING DETAIL.

NOTE: REFER TO DETAIL 7 ON SHEET E2.01 FOR POWER WALL SYSTEM ELEVATION.

CONTRACTOR SHALL COORDINATE WITH UTILITY (COMPANY NAME)(PHONE NUMBER), FOR FAULT CURRENT INFORMATION BEFORE INSTALLING ELECTRICAL EQUIPMENT. CONTRACTOR SHALL CONTACT EOR WITH FAULT CURRENT INFORMATION AT THE SECONDARY OF THE UTILITY TRANSFORMER.

CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY PRIOR TO COMMENCEMENT OF WORK.

ELECTRICAL CONTRACTOR TO COORDINATE WITH UTILITY TO VERIFY VOLTAGE AND ALL UTILITY REQUIREMENTS PRIOR TO PURCHASE OF EQUIPMENT. ELECTRICAL CONTRACTOR TO PROVIDE ALL EQUIPMENT AND ACCESSORIES REQUIRED FOR ELECTRICAL RISER.

TRIP UNITS FOR ALL CIRCUIT BREAKERS 1200A AND LARGER SHALL PROVIDE REAL TIME POWER METERING AND AN INTEGRAL ENERGY REDUCTION MAINTENANCE SWITCH (ERMS) PER NEC 240.87. THE SWITCHBOARD/QUICK CONNECT MANUFACTURER SHALL PROVIDE A LOCKABLE SWITCH AND INDICATING LIGHT, SEPARATE FROM THE TRIP UNIT, FOR ACTIVATING THE ERMS AND CONFIRMING ITS ACTIVATION. TRIP UNITS SHALL BE EQUAL TO SQUARE D MICROLOGIC 5.0P OR 6.0P.

COORDINATE ALL CHANGES OF ELECTRICAL SERVICE AND METERING WITH UTILITY COMPANY.

STORE ADDRESS: FOOD LION STORE
ADDRESS,TOWN
STATE, ZIP CODE

<UTILITY COMPANY> COMPANY NAME
<CONTACT> ENGINEER NAME
<PHONE> (XXX)XXX-XXXX

EMERGENCY GENERATOR; 35 kW, 120Y/208 VOLT, 3 PHASE, 4 WIRE, W/ PROTECTIVE HOUSING.

FACTORY-INSTALLED WEATHER-PROTECTIVE HOUSING OVER GENERATOR & ENCLOSED CIRCUIT BREAKER.

WARNING

Arc Flash and Shock Hazard

Appropriate PPE Required

CAUTION—SERIES COMBINATION SYSTEM RATED. 65KAIC IDENTIFIED REPLACEMENT COMPONENT REQUIRED.

NEC-110.16, 110.22

NOTES:

1. PROVIDE/INSTALL SIGN ON ALL EQUIPMENT PER ANSI, NEC 70E 2012,AND OSHA. ANSI Z535.4-1998, PRODUCT SAFETY SIGNS AND LABELS, PROVIDES GUIDELINES FOR THE DESIGN OF SAFETY SIGNS AND LABELS FOR APPLICATION TO PRODUCTS.
2. REFER TO RISER DIAGRAM FOR SHORT CIRCUIT AMPERAGE INFORMATION.

02 ARC FLASH WARNING SIGN DETAIL

SCALE: NTS

CONDUIT WIRE SCHEDULE FOR CO2 GENERATOR AND PANEL

XXX	(10) #14, (1) BELDON 9460, 3/4" c
ZZZ	(1) BELDON, (2) #14

CIRCUIT SCHEDULE

33	30A	(3)#10, (1)#10G, 1/2" C
43	40A	(3)#8, (1)#10G, 3/4" C
63	60A	(3)#6, (1)#10G, 1" C
93	90A	(3)#3, (1)#8G, 1-1/4" C
104	100A	(4)#3, (1)#8G, 1-1/4" C
124	125A	(4)#1, (1)#6G, 1-1/2" C
154	150A	(4)#1/0, (1)#6G, 2" C
173	175A	(3)#2/0, (1)#6G, 1-1/2" C
204	200A	(4)#3/0, (1)#6G, 2" C
224	225A	(4)#4/0, (1)#4G, 2-1/2" C
254	250A	(4)-250kcmil, (1)#4G, 2-1/2" C
353	350A	(3)-500kcmil, (1)#3G, 3-1/2" C
404	400A	(2) 2" C, EACH W/ (4)#3/0, (1)#3G
804	800A	(3) 3" C, EACH W/ (4)-300kcmil, (1)#1/0G

ALL CONDUCTOR SIZES SHOWN ARE BASED ON CU.

ALL CONDUCTOR SIZES ARE BASED ON 75 DEG C RATED TERMINATIONS AND TYPE THHN/THWN-2 INSULATION; FOR TERMINATIONS OR INSULATION TYPES RATED LESS THAN 75 DEG C, MODIFY SIZES ACCORDING TO NFPA 70.

FAULT CURRENT CALCULATION

TRANSFORMER SIZE (KVA)	800
TRANSFORMER Z (%)	5.3
"C" FACTOR (#750 KCMIL COND.)	31,051
NUMBER OF CONDUCTORS PER PHASE	8
LINE TO LINE VOLTAGE	208
LINE TO NEUTRAL VOLTAGE	120
LENGTH OF SERVICE	100

$$I = \frac{800 \times 1000}{1.73 \times 208} = 2{,}221$$

$$I(sco) = \frac{2221 \times 100}{5.25} = 42{,}297$$

$$F = \frac{42{,}297 \times 1.73 \times 100}{8 \times 31{,}051 \times 208} = 0.14$$

$$M = \frac{1}{1+0.14} = \frac{1}{1.14} = 0.88$$

Isc AT SERVICE DISCONNECT= 42,297 X 0.88 = 37,044

MAXIMUM AVAILABLE FAULT CURRENT = 35415.00 AMPERES

[ ] FURNISHED BY UTILITY COMPANY ON DATE = XX.XX.XXXX

[/] CALCULATED BY ENGINEER ON DATE = 10.16.2026

ANY CHANGES TO THE SUPPLY POWER, OR INTERNAL ELECTRICAL SYSTEM, THAT COULD CAUSE THIS UTILITY FURNISHED OR CALCULATED VALUE TO INCREASE, SHALL BE EVIDENCE THAT A QUALIFIED PERSON REPEAT THE CALCULATIONS AND MAKE ADJUSTMENTS TO THE SYSTEM IF REQUIRED.
(AFTER REVISIONS, CHANGE THIS LABEL TO REFLECT REVISED DATA AND NEW DATE.)
PLACE ON A VISIBLE SURFACE OF THE SERVICE ENTRANCE DISCONNECT.
USE A LABEL THAT HAS MINIMUM 1/8" HIGH LETTERING AND SUITABLE FOR THE ENVIRONMENT AT THE LOCATION.

TOTAL SERVICE LOAD SUMMARY

LOADS (IN VA)	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
LIGHTING	50567	1.25	63209
RECEPTS TO 10 KVA	10000	1.0	10000
RECEPTS REMAINING	97742	0.5	48871
SPACE HEATING	0	0.0	0
AIR CONDITIONING	300703	1.0	300703

LOADS	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
NON-SEASONAL MOTORS	311675	1.0	311675
LARGEST MOTOR	8712	0.25	2178
WATER HEATING	57000	1.0	57000
KITCHEN EQUIP.	146558	0.65	95263

REMAINING CONTINUOUS LOADS	8020	1.25	10025	
REMAINING NON-CONTINUOUS LOADS	4750	1.0	4750	
MISC. DEMAND LOADS	0	1.0	0	
TOTAL CONNECTED LOAD	987	KVA	2741.7	AMPS
TOTAL DEMAND LOAD	903.7	KVA	2510.2	AMPS

Short-Circuit and Voltage Drop Calculations

FAULT POINT	BUS/FEEDER DESCRIPTION	PHASE	SOURCE POINT	SOURCE ISC (AMPS)	FEEDER: CONDUIT TYPE	FEEDER: MATERIAL CU OR AL	FEEDER: #	FEEDER: WIRE/BUS SIZE	CONDUCTOR 'C' VALUE	BUSWAY 'C' VALUE	L-L VOLTS (E)	CIRCUIT LENGTH (L) **	LOAD POWER FACTOR (PF)	CIRCUIT LOAD (A)	CONDUCTOR: RESISTANCE (R)	CONDUCTOR: REACTANCE (X)	KVA	DEGREE RISE	Z	V SEC	F	M	FAULT CURRENT ISC	VOLTAGE DROP %VD	TOTAL V.D. %VD CUM	FAULT POINT (F#)
1	UTILITY SERVICE POINT			* 37044	AT THE SECONDARY OF THE UTILITY TRANSFORMER 208Y/120V - 3 PHASE SOURCE ISC + 6X MOTOR CONTRIBUTION =																		37650			1
	MOTOR CONTRIBUTION			101																						
2	NEX GEAR	3	1	37650	M	AL	8	SET(S) OF 750 KCMIL	31051		208	50	0.9	2451.3	0.031	0.039					0.863	0.94	35,415	0.57	0.57	2
3	MDP-1	3	2	35415	M	AL	3	SET(S) OF 600 KCMIL	28752		208	50	0.9	779.7	0.036	0.039					0.171	0.85	30,245	0.53	1.11	3
4	MDP-2	3	2	30245	M	AL	3	SET(S) OF 600 KCMIL	28752		208	50	0.9	944.9	0.036	0.039					0.146	0.87	26,392	0.65	1.22	4
5	MDP-3	3	2	26392	M	AL	3	SET(S) OF 600 KCMIL	28752		208	50	0.9	806.2	0.036	0.039					0.127	0.89	23,410	0.55	1.13	5
6	PANEL LA	3	3	23410	M	CU	1	SET(S) OF 4/0 AWG	15082		208	20	0.9	82.7	0.063	0.051					0.259	0.79	18,601	0.11	1.22	6
7	PANEL LB	3	3	18601	M	CU	1	SET(S) OF 4/0 AWG	15082		208	20	0.9	52.6	0.063	0.051					0.205	0.83	15,431	0.07	1.18	7
8	PANEL LC	3	3	15431	M	CU	1	SET(S) OF 4/0 AWG	15082		208	20	0.9	155.3	0.063	0.051					0.170	0.85	13,185	0.20	1.31	8
9	EDH-1	3	3	13185	PVC	CU	1	SET(S) OF 500 KCMIL	26706		208	40	0.9	277	0.027	0.039					0.164	0.86	11,323	0.38	1.49	9
10	AHU-1	3	3	11323	PVC	CU	1	SET(S) OF 3 AWG	4811		208	40	0.9	46.8	0.250	0.047					0.784	0.56	6,347	0.38	1.49	10
11	RTU-1	3	3	6347	PVC	CU	1	SET(S) OF 3 AWG	4811		208	40	0.9	93	0.250	0.047					0.439	0.69	4,409	0.76	1.87	11
12	PANEL R	3	4	4409	M	CU	3	SET(S) OF 300 KCMIL	18177		208	50	0.9	618.9	0.072	0.051					0.034	0.97	4,266	0.75	1.97	12
13	WATER HEATER	3	4	4266	M	CU	1	SET(S) OF 4/0 AWG	15082		208	50	0.9	120	0.063	0.052					0.118	0.89	3,816	0.40	1.62	13
14	PANEL PA	3	5	3816	M	CU	1	SET(S) OF 4/0 AWG	15082		208	20	0.9	61.5	0.063	0.051					0.042	0.96	3,662	0.08	1.21	14
15	PANEL PB	3	5	3662	M	CU	1	SET(S) OF 4/0 AWG	15082		208	20	0.9	32.4	0.063	0.051					0.040	0.96	3,520	0.04	1.17	15
16	PANEL PC	3	5	3520	M	CU	1	SET(S) OF 4/0 AWG	15082		208	20	0.9	112.5	0.063	0.051					0.039	0.96	3,388	0.15	1.27	16
17	PANEL D	3	5	3388	M	CU	2	SET(S) OF 3/0 AWG	12844		208	200	0.9	232.9	0.079	0.052					0.220	0.82	2,778	1.82	2.94	17
18	PANEL B	3	5	2778	M	CU	1	SET(S) OF 4/0 AWG	15082		208	200	0.9	88.1	0.063	0.051					0.307	0.77	2,126	1.16	2.28	18
19	PANEL CO2	3	3	23410	M	CU	1	SET(S) OF 1/0 AWG	8925		208	50	0.9	65.1	0.120	0.055					1.092	0.48	11,190	0.36	1.47	19

*THE FAULT CURRENT WAS CALCULATED USING INFINITE BUS METHOD UTILIZING TRANSFORMER SIZE OF 800 KVA AND 5.3(%)Z. REFER TO FAULT CURRENT CALCULATIONS TABLE ON THIS SHEET.
**DISTANCES SHOWN IN THESE CALCULATIONS ARE ESTIMATED BASED ON INFORMATION AVAILABLE TO ENGINEER AT TIME OF DESIGN.

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OUT

TIMBER DEVELOPMENT CORPORATION

8113 BALL GROUND HWY
BALL GROUND, GA 30107

PROJECT NO: 2026.0771
DATE: 11/13/26

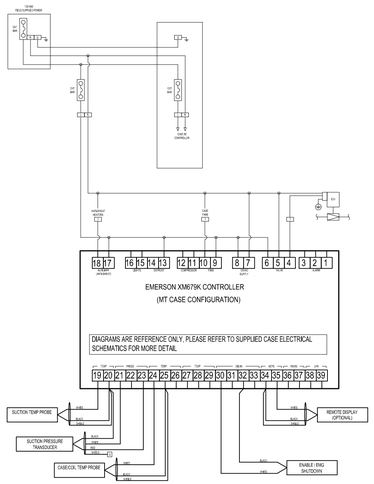
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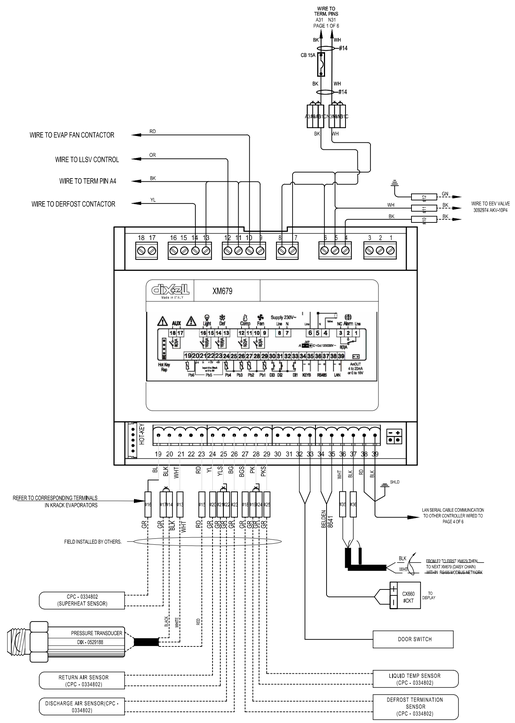
ELECTRICAL ONE LINE DIAGRAM

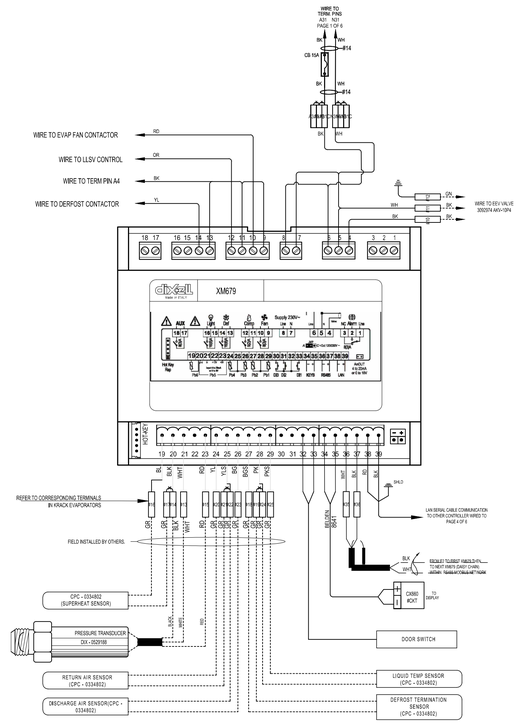
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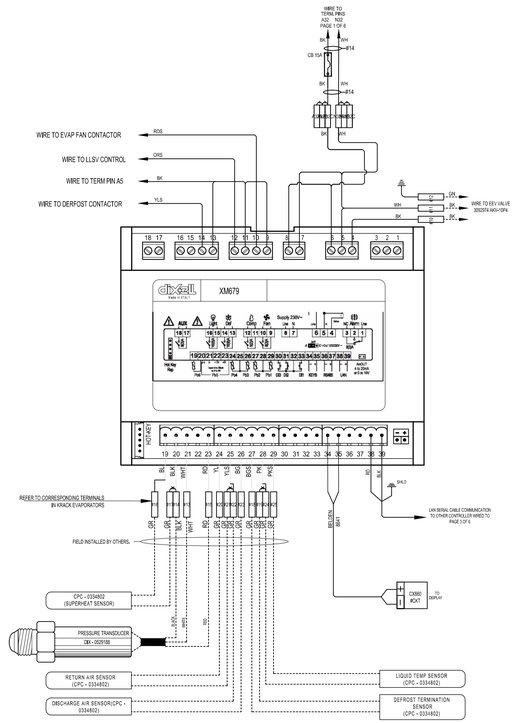
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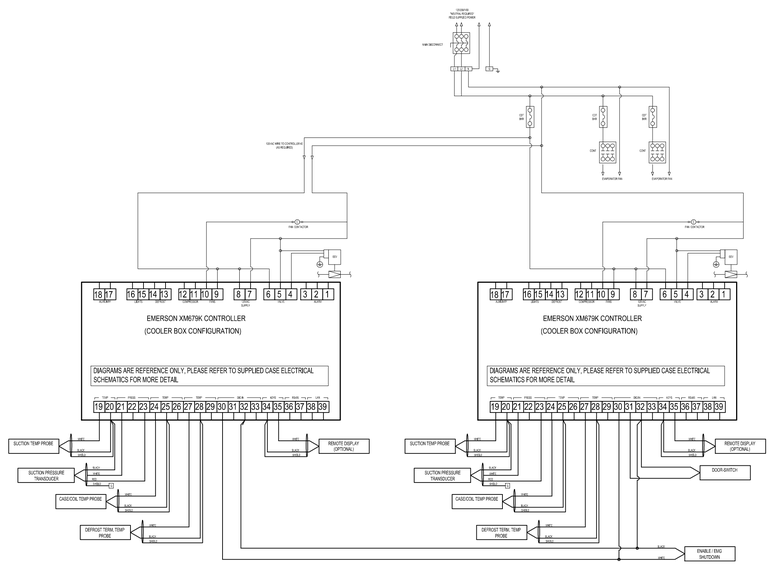








01 TYPICAL STORAGE FREEZER CONTROL WIRING
SCALE: NTS



02 TYPICAL MEAT, ICE CREAM AND DELI/BAKERY FREEZER CONTROL WIRING
SCALE: NTS

FUSES AND FUSE LABELS

UNLESS SPECIFIED OTHERWISE, USE:

250VAC - GLASS FUSES
1. ONLY ON JOBS WITH 120V CONTROL CIRCUITS RATED 10kA SCCR.
2. ON ALL TRANSFORMER SECONDARY CIRCUITS IRRESPECTIVE OF THE CONTROL VOLTAGE OR SCCR RATING. (E.G., SECONDARY OF BOARD TRANSFORMER, MBV TRANSFORMER, ETC.)

600VAC - CLASS CC - KLDR AND CCMR FUSES - (FUSE BLOCKS PT.#S - 1-P 3071969, 2-P 0324742, 3-P 0410738)
1. ON JOBS WITH 120V CONTROL CIRCUITS RATED ABOVE 10kA SCCR
2. ON JOBS WITH 208V CONTROL CIRCUITS IRRESPECTIVE OF THE SCCR RATING.
3. USE KLDR FUSES FOR ALL CONTROL CIRCUITS EXCEPT FOR MOTORS AND TRANSFORMER SECONDARY CIRCUITS.
4. USE CCMR FUSES FOR ALL MOTOR APPLICATIONS IRRESPECTIVE OF THE CONTROL VOLTAGE OR SCCR RATING. (E.G., CONDENSER FANS, HEAD FANS, COMPRESSORS, ETC.)

FUSE LABELS
PER UL REQUIREMENT, ALL FUSE LABELS MUST INCLUDE THE: AMP RATING, MAXIMUM VOLTAGE RATING, AND CLASS RATING IF APPLICABLE. (GLASS FUSES DO NOT HAVE A CLASS RATING, BUT THE LABEL MUST STILL INCLUDE THE AMP AND MAXIMUM VOLTAGE RATING.)

GENERAL NOTES:

1. ALL WIRING MUST BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC), INCLUDING ANY LOCAL CODES.
2. ENSURE ALL CONDUCTOR TERMINATIONS OR CONNECTIONS ARE SECURELY TIGHTENED BEFORE APPLYING POWER.

STANDARD WIRE COLOR:

* COLOR CODING IS (1)RED, (2)ORANGE, (3)YELLOW, (4)BLUE, (5)PURPLE, (6)GREY, (7)BEIGE, & (8)PINK. START OVER WITH RED FOR (9).

** COLOR CODING IS STRIPED COLOR (1)RED, (2)ORANGE, (3)YELLOW, (4)BLUE, (5)PURPLE, (6)GREY, (7)BEIGE, & (8)PINK, START OVER WITH RED FOR (9).

REFRIGERATION COMMUNICATION SYSTEM TO BE PROVIDED BY OWNER AND INSTALLED BY OWNER'S VENDOR.

ABBREVIATION

AI	ANALOG INPUT	KGV	KOOL GAS VALVE
ALR	ALARM RELAY	LIS	LIQUID INJECTION SOLENOID
ARP	AIR HEAT RECLAIM PROOF	LOR	LOW OIL LEVEL RELAY
AUX	AUXILLARY CONTACT	LPC	LOW PRESSURE CONTROL
BSR	BELL SILENCE RELAY	LV	LIQUID LEVEL SOLENOID VALVE
CB	CIRCUIT BREAKER	MCA	MINIMUM CIRCUIT AMPACITY
CC	COMPRESSOR CONTACTOR	MOPD	MAXIMUM OVERCURRENT PROTECTION DEVICE
CCH	CRANKCASE HEATER	MPR	MASTER PRESSURE RELAY
CF	CONDENSER FAN	OFC	OIL FAILURE CONTROL
CFC	CONDENSER FAN CONTACTOR	OFI	OIL FAILURE INPUT
CMP	COMPRESSOR PROOF	OFR	OIL FAILURE RELAY
COM	COMMUNICATIONS	OL	OVERLOAD
CONT	GENERAL CONTACTOR	OLA	OIL LEVEL ALARM
COT	COMPRESSOR OVER TEMPERATURE	OLC	OIL LEVEL CONTROL
CSR	CURRENT SENSING RELAY	OLR	OVERLOAD RELAY
CT	CURRENT TRANSFORMER	OLS	OIL LEVEL SWITCH
DC	DEFROST CONTACTOR	OPC	OIL PRESSURE CONTROL
DCM	DEMAND COOLING MODULE	PB	POWER BLOCK
DCR	DEMAND COOLING RELAY	PL	POWERLINK
DCV	DEMAND COOLING VALVE	PLO	PRESSURE LOCKOUT RELAY
DOR	DIRTY OIL RELAY	PLR	PHASE LOSS RELAY
DPC	DUAL PRESSURE CONTROL	POV	PUMPOUT VALVE
DPR	DISCHARGE PRESSURE RELAY	PPS	PRE-PURGE SOLENOID VALVE
DR	DUAL TEMP RELAY	PRS	POST PURGE SOLENOID VALVE
DT	DEFROST TERMINATION	PS	POWER SUPPLY
DTC	DISCHARGE TEMP CONTROL RELAY	RDR	RUPTURE DISK RELAY
DTR	DISCHARGE TEMPERATURE RELAY	RHR	RECEIVER HEATER RELAY
DTS	DISCHARGE T-STAT	RIV	RECEIVER INLET VALVE
DUV	DUAL TEMP SOLENOID VALVE	RSR	EVAP FAN DELAY RELAY
DV	DEFROST MAIN DIFFERENTIAL VALVE	RT	REFRIGERATION TEMP
EVI	ENHANCED VAPOR INJECTION	SBA	SWITCHBACK ALARM
FC	FAN CONTACTOR	SBR	SWITCHBACK RELAY
FR	FAN RELAY	SBV	SPLIT SUCTION BYPASS VALVE
GCA	GENERAL COMPRESSOR ALARM RELAY	SCV	SUBCOOLER SOLENOID VALVE
GDR	GAS DEFROST RELAY	SDR	SHUTDOWN RELAY
GRA	GENERAL RACK ALARM	SGV	SURGE VALVE
HGV	HOT GAS SOLENOID VALVE	SLR	SATELLITE LOCKOUT RELAY
HOR	HEAT RECLAIM OPTIMIZATION RELAY	SPV	SPLIT CONDENSER VALVE
HPC	HIGH PRESSURE CONTROL	SV	SOLENOID VALVE
HPS	HIGH PRESSURE SWITCH	SW	SWITCH
HRI	HEAT RECLAIM INPUT	TD	TIME DELAY
HRLO	HEAT RECLAIM LOCKOUT RELAY	TDH	HEAT RECLAIM PRE-PURGE TIME DELAY
HRP	HEAT RECLAIM PROOF	UL	UNLOADER SOLENOID
HRPO	HEAT RECLAIM PUMPOUT VALVE	VIS	VAPOR INJECTION SOLENOID
HRR	HEAT RECLAIM RELAY	WBV	WINTER BYPASS VALVE
HRV	HEAT RECLAIM VALVE	WRP	WATER HEAT RECLAIM PROOF
KBV	KOOL GAS BOOST VALVE	XFMR	TRANSFORMER

TERMINAL PIN LEGEND

AL - GENERAL ALARM
AHR - AIR HEAT RECLAIM
CC - CIRCUIT COMMON
CD - CIRCUIT DEFROST
CF - CONDENSER FAN
CR - CIRCUIT REFRIGERATION
CFC - CONDENSER FAN CONTROL
CGF - COOLING FAN
DV - MAIN DIFFERENTIAL VALVE
DS - DESUPERHEATING CONTROL
DTC - DUAL TEMP CONTROL
DSV - DE-SUPERHEATING VALVE CONTROL
EA - EVAPORATOR
EXF - EXHAUST FAN
FV - FLOODING VALVE
HF - HEAD FAN
IDC - IDCM POWERING
LD - LEAK DETECTOR
LLI - LIQUID LEVEL INDICATOR
LPC - LOW PRESSURE CONTROL
OFA - DIRTY OIL FILTER ALARM
OSH - OIL SEPARATOR HEATER
PDI - OIL SEPARATOR PRESS. DIFF. ALARM
PLA - PHASE LOSS ALARM
PPS - POST-PURGE VALVE
PRS - PRE-PURGE VALVE
RD - RUPTURE DISC
RH - RECEIVER HEATER
REH - RE-EVAP HEAT TAPE CONTROL
REV - RE-EVAP VALVE SOLENOID
RFV - RADIANT FLOOR HEATING
SB - SWITCH BLOCK
SC - SUBCOOLER
SP - SPLIT CONDENSER
SAH - SUCTION ACCUMULATOR HEATER
SBV - SUCTION BYPASS VALVE CONTROL
SGV - SURGE VALVE
SSM - SPLIT SUCTION MODIFICATION
TX - TRAXOIL POWERING
WHR - WATER HEAT RECLAIM

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INTERIOR BUILD
OUT

TIMBER DEVELOPMENT CORPORATION
8113 BALL GROUND HWY
BALL GROUND, GA 30107

PROJECT NO: 2026.0771
DATE: 11/13/26

E5.03
ELECTRICAL CONTROLS DIAGRAM

CHECKED: SN DRAWN: NA

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NEW PANEL LA

LOCATION: ELECTRICAL AREA
VOLTAGE: 208Y/120V
TRIM: SURFACE
MAIN: 225A MLO
SYSTEM: 3ø, 4W
BUS RATING: 225A
CONN. LOAD: 23.8 KVA
FEED: TOP
GROUND BUS: YES

EMS	CKT	LOAD SERVED	COND	PHASE	NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	LOAD SERVED	CKT	EMS
1	1	SPARE	–	–	–	–	20/1	L	1464			L	20/1	3/4"	#12	#12	#12	CHECKOUT & PRODUCE HIGHBAY LTS	2	1
–	3	SPARE	–	–	–	–	20/1	L		702		L	20/1	3/4"	#12	#12	#12	PRODUCE & WINE HIGHBAY LTS	4	1
2	5	SALES LTS ROW 2	3/4"	#12	#12	#12	20/1	L			1498	L	20/1	3/4"	#12	#12	#12	PRODUCE & DELI SALES HIGHBAY LTS	6	1
–	7	SPARE	–	–	–	–	20/1	L	1498			L	20/1	3/4"	#12	#12	#12	PERIMETER DELI & WINE LTS	8	14
1	9	SALES LTS ROW 3	3/4"	#12	#12	#12	20/1	L		1530		L	20/1	3/4"	#12	#12	#12	DELI/BAKERY DOWN LTS	10	14
–	11	SPARE	–	–	–	–	20/1	L			1530	L	20/1	3/4"	#12	#12	#12	DELI/BAKERY DOWN LTS	12	14
2	13	SPARE	–	–	–	–	20/1	L	720			L	20/1	3/4"	#12	#12	#12	AMERILUX LTS OUTSIDE GARDEN COOLER	14	1
–	15	SPARE	–	–	–	–	20/1	L		624		L	20/1	3/4"	#12	#12	#12	AMERILUX LTS OUTSIDE GARDEN COOLER	16	9
1	17	SALES LTS ROW 5	3/4"	#12	#12	#12	20/1	L			1430	L	20/1	3/4"	#12	#12	#12	PERIMETER GARDEN COOLER LTS	18	14
–	19	SPARE	–	–	–	–	20/1	L	1000			L	20/1	3/4"	#12	#12	#12	FUTURE HBC DECOR SIGN	20	13
1	21	SALES LTS ROW 6	3/4"	#12	#12	#12	20/1	L		1598		L	20/1	3/4"	#12	#12	#12	PERIMETER MEAT LTS	22	14
–	23	SPARE	–	–	–	–	20/1	L			1498	L	20/1	3/4"	#12	#12	#12	AMERILUX LTS BY BEER COOLER	24	9
1	25	SPARE	–	–	–	–	20/1	L	630			L	20/1	3/4"	#12	#12	#12	AMERILUX LTS BY BEER COOLER	26	9
–	27	SPARE	–	–	–	–	20/1	R		–		R	20/1	–	–	–	–	SPARE	28	–
–	29	EMERGENCY LTS K1	3/4"	#12	#12	#12	20/1	R			1628	R	20/1	3/4"	#12	#12	#12	PERIMETER DARY/ ICECREAM LTS	30	14
–	31	SPARE	–	–	–	–	20/1	R				R	20/1	3/4"	#12	#12	#12	PERIMETER FRONT LTS	32	14
–	33	SPARE	–	–	–	–	20/1	R	1628			R	20/1	3/4"	#12	#12	#12	E-COMMERCE ROOM LTS	34	1
–	35	SPARE	–	–	–	–	20/1	R		328		L	20/1	3/4"	#12	#12	#12	LOUNGE/OFFICE/PC RM LTS	36	1
2	37	SALES LTS ROW 8	3/4"	#12	#12	#12	20/1	L	292			L	20/1	3/4"	#12	#12	#12	WORK-DATA-RISER ROOM LTS	38	1
–	39	SPARE	–	–	–	–	20/1	L		432		L	20/1	3/4"	#12	#12	#12	VESTIBULE LTS	40	6
–	41	EXTERIOR WALL PACKS	3/4"	#12	#12	#12	20/1	L	432			L	20/1	3/4"	#12	#12	#12	EMERGENCY LTS K2 & K3	42	–

INTERRUPT RATING: 22,000 AIC — 7838 | 7008 | 8979 — FROM: NEW PANEL MDP1 VIA 225A BREAKER

LOADS (IN VA)	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
LIGHTING	23825	1.25	29781
RECEPTS TO 10 KVA	0	1.0	0
RECEPTS REMAINING	0	0.5	0
SPACE HEATING	0	0.0	0
AIR CONDITIONING	0	1.0	0

LOADS	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
NON-SEASONAL MOTORS	0	1.0	0
LARGEST MOTOR	0	0.25	0
WATER HEATING	0	1.0	0
KITCHEN EQUIP.	0	0.65	0

REMAINING CONTINUOUS LOADS	0	1.25	0	
REMAINING NON-CONTINUOUS LOADS	0	1.0	0	
MISC. DEMAND LOADS	0	1.0	0	
TOTAL CONNECTED LOAD	23.8	KVA	66.2	AMPS
TOTAL DEMAND LOAD	29.8	KVA	82.7	AMPS

NEW PANEL LB

LOCATION: ELECTRICAL AREA
VOLTAGE: 208Y/120V
TRIM: SURFACE
MAIN: 225A MLO
SYSTEM: 3ø, 4W
BUS RATING: 225A
CONN. LOAD: 18.2 KVA
FEED: TOP
GROUND BUS: YES

EMS	CKT	LOAD SERVED	COND	PHASE	NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	LOAD SERVED	CKT	EMS
–	1	TV REC	3/4"	#12	#12	#12	20/1	R	720			–	20/1	–	–	–	–	SPARE	2	–
1	3	RECEIVING/GROCERY STAGING LTS	3/4"	#12	#12	#12	20/1	L		1218		R	20/1	3/4"	#12	#12	#12	PROD PREP LTS	4	1
1	5	RESTROOM LTS	3/4"	#12	#12	#12	20/1	L			228	R	20/1	3/4"	#12	#12	#12	DOCK LIGHTS REC	6	1
1	7	CORRIDOR/SERV. ALCOVE LTS	3/4"	#12	#12	#12	20/1	L	274			R	20/1	3/4"	#12	#12	#12	PROD REC, FLY TRAP	8	–
3	9	REAR CANOPY LTS	3/4"	#12	#12	#12	20/1	L		252		M	20/1	3/4"	#12	#12	#12	DAIRY-1, CONDENSATE PUMPS	10	–
1	11	MEAT PREP REC	3/4"	#12	#12	#12	20/1	R			180	R	20/1	3/4"	#12	#12	#12	REFRIG. LOUNGE	12	–
1	13	JANITOR'S AREA FAN EF-2	3/4"	#12	#12	#12	20/1	M	288			R	20/1	3/4"	#12	#12	#12	OFFICES /LOUNGE REC	14	–
1	15	LOUNGE/TOILET FANS EF-1	3/4"	#12	#12	#12	20/1	L		432		R	20/1	3/4"	#12	#12	#12	ELECTRIC WATER COOLERS	16	–
3	17	FRONT ENTRY CANOPY LTS	3/4"	#12	#12	#12	20/1	L			324	–	20/1	–	–	–	–	SPARE	18	–
3	19	FRONT CANOPY LTS	3/4"	#12	#12	#12	20/1	R	900			R	20/1	3/4"	#12	#12	#12	MICROWAVE	20	–
3	21	FRONT CANOPY LTS	3/4"	#12	#12	#12	20/1	R		432		R	20/1	3/4"	#12	#12	#12	PROD PREP WRAPPER & SCALE	22	–
–	23	SALES AREA REC	3/4"	#12	#12	#12	20/1	R			900	R	20/1	3/4"	#12	#12	#12	DSD & BACK ROOM	24	–
5	25	STORE FRONT SIGN	3/4"	#12	#12	#12	20/1	L	720			R	20/1	3/4"	#12	#12	#12	PROD PREP REC	26	–
5	27	STORE FRONT SIGN	3/4"	#12	#12	#12	20/1	L		720		R	20/1	3/4"	#12	#12	#12	MISTING SYSTEM	28	–
5	29	STORE FRONT SIGN	3/4"	#12	#12	#12	20/1	L			720	R	20/1	3/4"	#12	#12	#12	DEPT MANAGER'S OFFICE PHONE	30	–
–	31	MEAT PREP SCALE	3/4"	#12	#12	#12	20/1	R	360			R	20/1	3/4"	#12	#12	#12	MEAT PREP LTS	32	1
–	33	SPARE	–	–	–	–	20/1	–	–			–	20/1	–	–	–	–	SPARE	34	–
–	35	SPARE	–	–	–	–	20/1	–		–		–	20/1	–	–	–	–	MEAT PREP REC	36	–
–	37	SPARE	–	–	–	–	20/1	–			–	–	20/1	–	–	–	–	SPARE	38	–
–	39	TRANSFER FAN T-1 OVER DATA CLOSET	3/4"	#12	#12	#12	20/1	M		432		R	20/1	3/4"	#12	#12	#12	DSD MONITOR	40	–
–	41	MEAT PREP BELL	3/4"	#12	#12	#12	20/1	R			300	–	20/1	–	–	–	–	SPARE	42	–

INTERRUPT RATING: 22,000 AIC — 5409 | 6487 | 6290 — FROM: NEW PANEL MDP1 VIA 225A BREAKER

LOADS (IN VA)	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
LIGHTING	5081	1.25	6351
RECEPTS TO 10 KVA	10000	1.0	10000
RECEPTS REMAINING	10006	0.5	503
SPACE HEATING	0	0.0	0
AIR CONDITIONING	0	1.0	0

LOADS	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
NON-SEASONAL MOTORS	2099	1.0	2099
LARGEST MOTOR	0	0.25	0
WATER HEATING	0	1.0	0
KITCHEN EQUIP.	0	0.65	0

REMAINING CONTINUOUS LOADS	0	1.25	0	
REMAINING NON-CONTINUOUS LOADS	0	1.0	0	
MISC. DEMAND LOADS	0	1.0	0	
TOTAL CONNECTED LOAD	18.2	KVA	50.5	AMPS
TOTAL DEMAND LOAD	19	KVA	52.6	AMPS

NEW PANEL LC

LOCATION: ELECTRICAL AREA
VOLTAGE: 208Y/120V
TRIM: SURFACE
MAIN: 225A MLO
SYSTEM: 3ø, 4W
BUS RATING: 225A
CONN. LOAD: 64.5 KVA
FEED: TOP
GROUND BUS: YES

EMS	CKT	LOAD SERVED	COND	PHASE	NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	LOAD SERVED	CKT	EMS
–	1	BALER	1"	#6	#6	#10	60/3	M	4330			M	60/3	3/4"	#12	#12	#12	HEAT TAPE FOR GLACIER	2	–
–	3	"		#6				M		4330		R	60/3	3/4"	#12	#12	#12	BEER CASES REC	4	6
–	5	"		#6				M			4330	R	60/3	3/4"	#12	#12	#12	BEER CASES REC	6	6
–	7	MIXER/GRINDER	3/4"	#10	#10	#10	30/3	K	1598			L	20/1	3/4"	#12	#12	#12	HBC LTS	8	2
–	9	"		#10				K		1598		L	20/1	3/4"	#12	#12	#12	CHARGER REC FOR FLOOR MACHINE	10	–
–	11	"		#10				K			1598	L	20/1	3/4"	#12	#12	#12	HBC LTS	12	2
–	13	REFRIG. PRODUCE BIN	3/4"	#12	#12	#12	20/2	R	1622			L	20/1	3/4"	#12	#12	#12	BEER COOLER DOOR HEATER	14	–
–	15	"		#12				R		1622		L	20/1	3/4"	#12	#12	#12	BEER COOLER DOOR LTS	16	6
–	17	REFRIG. PRODUCE BIN	3/4"	#12	#12	#12	20/1	R			1622	L	20/1	3/4"	#12	#12	#12	BEER COOLER DOOR LTS	18	6
–	19	"		#12				R	1622			R	20/1	3/4"	#12	#12	#12	MEAT PREP WRAPPER	20	–
–	21	FRESH PET COOLER	3/4"	#12	#12	#12	20/1	R		1729		R	20/1	3/4"	#12	#12	#12	DAIRY COOLER DOOR HEATER	22	–
–	23	ICECREAM/ MEAT HEAT TAPE	3/4"	#12	#12	#12	20/1	R			1729	L	20/1	3/4"	#12	#12	#12	DAIRY COOLER DOOR LTS	24	6
–	25	REFRIG. PRODUCE BIN	3/4"	#12	#12	#12	20/1	R	1622			L	20/1	3/4"	#12	#12	#12	DAIRY COOLER DOOR LTS	26	6
–	27	"		#12				R		1622		R	20/1	3/4"	#12	#12	#12	TV REC	28	–
–	29	RTU-2 & DCU-1 REC	3/4"	#12	#12	#12	20/1	R			180	R	20/1	3/4"	#12	#12	#12	FREEZER HEAT TAPE, DOOR HEATER	30	–
–	31	SPARE	–	–	–	–	20/1	R	888			R	20/1	3/4"	#12	#12	#12	E-COMMERCE REFRIGERATOR	32	–
–	33	E-COMMERCE FREEZER	3/4"	#12	#12	#12	20/1	R		888		R	20/1	3/4"	#12	#12	#12	E-COMMERCE REFRIGERATOR	34	–
–	35	GLACIER WATER	3/4"	#12	#12	#12	20/1	R			720	R	20/1	3/4"	#12	#12	#12	REF.COND./ RTU-1/RTU-DB/KH-1 REC	36	–
1	37	DCU-1 CONDENSING UNIT E-COMM	3/4"	#6	#6	#10	60/2	A	4508			A	60/2	3/4"	#8	#8	#10	AC-6 FOR CART CORRAL DOOR	38	–
–	39	"		#6				A		4508		R	20/1	3/4"	#12	#12	#12	E-COMMERCE REFRIGERATOR	40	–
–	41	RECIRCULATION PUMP	3/4"	#12	#12	#12	20/1	M			720	R	20/1	3/4"	#12	#12	#12	E-COMMERCE REFRIGERATOR	42	–

INTERRUPT RATING: 22,000 AIC — 23190 | 23336 | 18010 — FROM: NEW PANEL MDP1 VIA 225A BREAKER

LOADS (IN VA)	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
LIGHTING	7200	1.25	9000
RECEPTS TO 10 KVA	10000	1.0	10000
RECEPTS REMAINING	14416	0.5	7208
SPACE HEATING	0	0.0	0
AIR CONDITIONING	9016	1.0	9016

LOADS	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
NON-SEASONAL MOTORS	13110	1.0	13110
LARGEST MOTOR	2205	0.25	551
WATER HEATING	0	1.0	0
KITCHEN EQUIP.	10794	0.65	7016

REMAINING CONTINUOUS LOADS	0	1.25	0	
REMAINING NON-CONTINUOUS LOADS	0	1.0	0	
MISC. DEMAND LOADS	0	1.0	0	
TOTAL CONNECTED LOAD	64.5	KVA	179.3	AMPS
TOTAL DEMAND LOAD	55.9	KVA	155.3	AMPS

Note 2. Provide HACR rated breaker(s) for circuit(s) 13, 17, 21, 25, 37

ALL BRANCH CIRCUIT PANELBOARDS (NON-DELI/BAKERY) SHALL BE BALANCED TO WITHIN 10% PHASE TO PHASE. PERFORM/DOCUMENT AT LEAST THREE RANDOM AMPERAGE CHECKS AND RELOCATE CONTINUOUS LOADS TO ACCOMPLISH. FINAL ACCEPTANCE REQUIRES ALL PANEL SCHEDULES BE TYPE WRITTEN, DATED AND 100% ACCURATE (AS BUILT). A FOOD LION COMMISSIONING AGENT WILL VERIFY YOUR WORK AND PERFORM A THERMAL WARRANTY SCAN AT 30 DAYS POST GRAND OPENING.

ENERGY MANAGEMENT SYSTEM LIMITS COINCIDENTAL DEMAND PER MDP TO LESS THAN 800 AMPS, ALLOWING FOR MORE THAN 20% SPARE CAPACITY. NO FUTURE EXPANSIONS ARE PLANNED. PANEL SIZE SHALL NOT BE INCREASED WITHOUT PRIOR APPROVAL OF OWNER.

VERIFY REFRIGERATION CIRCUIT LOADS WITH REFRIGERATION SUMMARY. REFRIGERATION SUMMARY SHALL GOVERN DESIGN.

ELECTRICAL ENGINEER IS RESPONSIBLE FOR VERIFYING ALL VOLT/AMP TOTALS AND BREAKER SIZES.

NEW PANEL PA

LOCATION: ELECTRICAL AREA
VOLTAGE: 208Y/120V
TRIM: SURFACE
MAIN: 225A MLO
SYSTEM: 3ø, 4W
BUS RATING: 225A
CONN. LOAD: 21.6 KVA
FEED: TOP
GROUND BUS: YES

EMS	CKT	LOAD SERVED	COND	PHASE	NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	LOAD SERVED	CKT	EMS
6	1	(M19) DAIRY– LTS	3/4"	#12	#12	#12	20/1	L	648			M	20/1	3/4"	#12	#12	#12	(M5) MD PRODUCE – FANS	2	–
–	3	(M19) DAIRY– FANS & A/S	3/4"	#12	#12	#12	20/1	M		604		M	20/1	–	–	–	–	SPARE	4	–
–	5	SPARE	–	–	–	–	20/1	–			604	L	20/1	3/4"	#12	#12	#12	(M4) MD PRODUCE – LTS	6	6
–	7	SPARE	–	–	–	–	20/1	L	540			M	20/1	3/4"	#12	#12	#12	(M4) MD PRODUCE – FANS	8	–
6	9	(M18) DAIRY/DAIRY PROMO– LTS	3/4"	#12	#12	#12	20/1	M		648		R	20/1	3/4"	#12	#12	#12	PRODUCE MONITOR	10	–
–	11	(M18) DAIRY/DAIRY PROMO–FANS&A/S	3/4"	#12	#12	#12	20/1	M			576	M	20/1	3/4"	#12	#12	#12	(M2) PRODUCE PREP– FANS	12	–
–	13	SPARE	–	–	–	–	20/1	–	624			M	20/1	3/4"	#12	#12	#12	(M1) PRODUCE CUR– FANS	14	–
6	15	(M16) DELI– LTS	3/4"	#12	#12	#12	20/1	L		720		L	20/1	3/4"	#12	#12	#12	(M11) BEER CUR W/ DRS– FANS	16	–
–	17	(M16) DELI– FANS & A/S	3/4"	#12	#12	#12	20/1	M			672	M	20/1	3/4"	#12	#12	#12	(M13) MEAT PREP – FANS	18	–
–	19	SPARE	–	–	–	–	20/1	–	2376			R	30/3	3/4"	#10	#10	#10	CUT FRUIT	20	–
6	21	(M14) MEAT– LTS	3/4"	#12	#12	#12	20/1	L		2376		R							22	–
–	23	(M14) MEAT– FANS	3/4"	#12	#12	#12	20/1	L	936			R							24	–
–	25	(M6) MEALS/CHEESE/WINE– FANS	3/4"	#12	#12	#12	20/1	M	936	1008		M	20/1	3/4"	#12	#12	#12	(M17) DAIRY CUR W/ DRS– FANS	26	–
6	27	(M6) MEALS/CHEESE/WINE– LTS	3/4"	#12	#12	#12	20/1	M			1008	M	20/1	3/4"	#12	#12	#12	(M12) MEAT PREP– FANS	28	6
–	29	(M10) BEER– FANS	3/4"	#12	#12	#12	20/1	M	504			L	20/1	3/4"	#12	#12	#12	(M15) MEAT– FANS	30	–
–	31	REFRIG. PRODUCE BIN	3/4"	#12	#12	#12	20/2	R		504		M	20/1	3/4"	#12	#12	#12	(M15) MEAT– FANS	32	–
–	33	"		#12				R	1062			M	20/1	3/4"	#12	#12	#12	(M3) PRODUCE– FANS	34	6
–	35	SPARE	–	–	–	–	20/1	–		1062		M	20/1	3/4"	#12	#12	#12	4" REFRIG SLANT BIN	36	–
–	37	SPARE	–	–	–	–	20/1	–			1062	–	20/1	–	–	–	–	SPARE	38	–
6	39	(M7) HMS ISLAND– LTS	3/4"	#12	#12	#12	20/1	M	128			M	20/1	3/4"	#12	#12	#12	(M8) SUSHI/DELI/CHEESE/BKRY–LTS	40	6
–	41	(M7) HMS ISLAND– FANS	3/4"	#12	#12	#12	20/1	M		128		M	20/1	3/4"	#12	#12	#12	(M9)SUSHI/D/CHEESE/BKRY–FANS&A/S	42	6

INTERRUPT RATING: 10,000 AIC — 6019 | 8111 | 7481 — FROM: NEW PANEL MDP3 VIA 225A BREAKER

LOADS (IN VA)	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
LIGHTING	2151	1.25	2689
RECEPTS TO 10 KVA	10000	1.0	10000
RECEPTS REMAINING	0	0.5	0
SPACE HEATING	0	0.0	0
AIR CONDITIONING	0	1.0	0

LOADS	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
NON-SEASONAL MOTORS	9460	1.0	9460
LARGEST MOTOR	0	0.25	0
WATER HEATING	0	1.0	0
KITCHEN EQUIP.	0	0.65	0

REMAINING CONTINUOUS LOADS	0	1.25	0	
REMAINING NON-CONTINUOUS LOADS	0	1.0	0	
MISC. DEMAND LOADS	0	1.0	0	
TOTAL CONNECTED LOAD	21.6	KVA	60	AMPS
TOTAL DEMAND LOAD	22.1	KVA	61.5	AMPS

Note 2. Provide HACR rated breaker(s) for circuit(s) 20, 31, 36

NEW PANEL PB

LOCATION: ELECTRICAL AREA
VOLTAGE: 208Y/120V
TRIM: SURFACE
MAIN: 225A MLO
SYSTEM: 3ø, 4W
BUS RATING: 225A
CONN. LOAD: 11.4 KVA
FEED: TOP
GROUND BUS: YES

EMS	CKT	LOAD SERVED	COND	PHASE	NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	LOAD SERVED	CKT	EMS
–	1	(L8) F.F. REACH IN– FANS & A/S	3/4"	#12	#12	#12	20/1	M	624			M	20/1	3/4"	#12	#12	#12	(L2) F.F. REACH IN– FANS & A/S	2	–
3	3	(L8) F.F. REACH IN– LTS	3/4"	#12	#12	#12	20/1	M		624		M	20/1	3/4"	#12	#12	#12	(L2) F.F. REACH IN– LTS	4	1
5	5	(L4) MEAT FREEZER– FANS	3/4"	#12	#12	#12	15/2	M			247	–	20/1	–	–	–	–	SPARE	6	–
–	7	"		#12				M	247			M	20/1	3/4"	#12	#12	#12	(L3) F.F. ISLAND– FANS & A/S	8	–
–	9	(L5) ICE CREAM FREEZER– FAN	3/4"	#12	#12	#12	15/2	M		1238		L	20/1	3/4"	#12	#12	#12	(L3) F.F. ISLAND– LTS	10	7
–	11	"		#12				M			1238	L	20/1	–	–	–	–	SPARE	12	–
–	13	(L10) F.F. REACH IN– FANS & A/S	3/4"	#12	#12	#12	20/1	M	624			M	20/1	3/4"	#12	#12	#12	(L9) F.F. REACH IN– FANS & A/S	14	–
7	15	(L10) F.F. REACH IN– LTS	3/4"	#12	#12	#12	20/1	L		84		L	20/1	3/4"	#12	#12	#12	(L9) F.F. REACH IN– LTS	16	7
–	17	SPARE	–	–	–	–	20/1	–			–	–	20/1	–	–	–	–	SPARE	18	–
–	19	(L15) F.F. REACH IN– FANS & A/S	3/4"	#12	#12	#12	20/1	M	624			M	20/1	3/4"	#12	#12	#12	(L7) F.F. REACH IN– FANS & A/S	20	–
7	21	(L15) F.F. REACH IN– LTS	3/4"	#12	#12	#12	20/1	L		84		L	20/1	3/4"	#12	#12	#12	(L7) F.F. REACH IN– LTS	22	7
–	23	(L13) F.F. REACH IN– FANS & A/S	3/4"	#12	#12	#12	20/1	M			624	–	20/1	–	–	–	–	SPARE	24	–
7	25	(L13) F.F. REACH IN– LTS	3/4"	#12	#12	#12	20/1	L	52			–	30/2	–	–	–	–	SPARE	26	–
–	27	SPARE	–	–	–	–	20/1	–		–		–	20/1	–	–	–	–	SPARE	28	–
–	29	SPARE	–	–	–	–	20/1	–			624	M	20/1	3/4"	#12	#12	#12	(L11) F.F. REACH IN– FANS & A/S	30	–
–	31	SPARE	–	–	–	–	20/1	L	52			L	20/1	3/4"	#12	#12	#12	(L11) F.F. REACH IN– LTS	32	7
–	33	(L14) F.F. REACH IN– FANS & A/S	3/4"	#12	#12	#12	20/1	M		624		L	20/1	–	–	–	–	SPARE	34	–
7	35	(L14) F.F. REACH IN– LTS	3/4"	#12	#12	#12	20/1	L	84			M	20/1	3/4"	#12	#12	#12	(L12) F.F. REACH IN– FANS & A/S	36	–
–	37	(L6) STORAGE FREEZER– FAN	3/4"	#12	#12	#12	15/2	M		624		M	20/1	3/4"	#12	#12	#12	(L12) F.F. REACH IN– LTS	38	7
–	39	"		#12				M	624			M	20/1	3/4"	#12	#12	#12	(L16) F.F. REACH IN– FANS & A/S	40	–
–	41	SPARE	–	–	–	–	20/1	–		84		L	20/1	3/4"	#12	#12	#12	(L16) F.F. REACH IN– LTS	42	7

INTERRUPT RATING: 10,000 AIC — 4435 | 3560 | 3451 — FROM: NEW PANEL MDP3 VIA 225A BREAKER

LOADS (IN VA)	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
LIGHTING	852	1.25	1065
RECEPTS TO 10 KVA	0	1.0	0
RECEPTS REMAINING	0	0.5	0
SPACE HEATING	0	0.0	0
AIR CONDITIONING	0	1.0	0

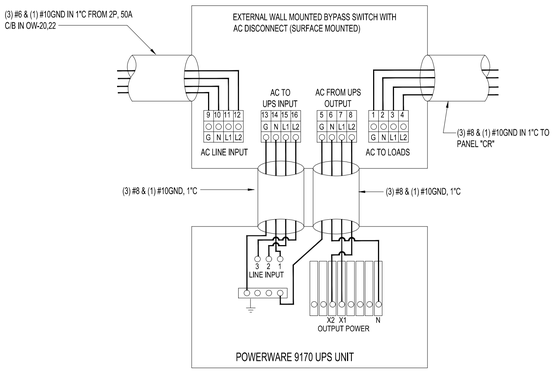
LOADS	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
NON-SEASONAL MOTORS	10594	1.0	10594
LARGEST MOTOR	0	0.25	0
WATER HEATING	0	1.0	0
KITCHEN EQUIP.	0	0.65	0

REMAINING CONTINUOUS LOADS	0	1.25	0	
REMAINING NON-CONTINUOUS LOADS	0	1.0	0	
MISC. DEMAND LOADS	0	1.0	0	
TOTAL CONNECTED LOAD	11.4	KVA	31.8	AMPS
TOTAL DEMAND LOAD	11.7	KVA	32.4	AMPS

NEW PANEL PC

LOCATION: ELECTRICAL AREA
VOLTAGE: 208Y/120V
TRIM: SURFACE
MAIN: 225A MLO
SYSTEM: 3ø, 4W
BUS RATING: 225A
CONN. LOAD: 41.7 KVA
FEED: TOP
GROUND BUS: YES

EMS	CKT	LOAD SERVED	COND	PHASE	NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	LOAD SERVED	CKT	EMS
–	1	GROCERY STAGING BUS ZAPPER	3/4"	#12	#12	#12	20/1	R	180			R	20/1	3/4"	#12	#12	#12	MEAT PREP REC	2	1
–	3	REC BETWEEN RECEIVING DOORS	3/4"	#12	#12	#12	20/1	R		180		R	20/1	3/4"	#12	#12	#12	PROD PREP REC	4	1
–	5	LOUNGE VIDEO MONITOR	3/4"	#12	#12	#12	20/1	N			1260	N	20/1	3/4"	#12	#12	#12	FAMILY RESTROOM HAND DRYER	6	–
–	7	MEN'S HAND DRYER	3/4"	#12	#12	#12	20/1	N	900			N	20/1	3/4"	#12	#12	#12	WOMEN'S HAND DRYER	8	–
–	9	MEN'S HAND DRYER	3/4"	#12	#12	#12	20/1	N		900		N	20/1	3/4"	#12	#12	#12	WOMEN'S HAND DRYER	10	–
–	11	AC–2 FOR DOCK DOOR	3/4"	#12	#12	#12	20/1	A			1260	–	20/1	–	–	–	–	SPARE	12	–
–	13	AC–2 FOR DOCK DOOR	3/4"	#12	#12	#12	20/1	A	1260			L	20/1	3/4"	#12	#12	#12	STORAGE/ICECREAM FREEZER LTS	14	1
–	15	AC–3 FOR DOCK DOOR	3/4"	#12	#12	#12	20/1	A		1260		L	20/1	3/4"	#12	#12	#12	BEER COOLER LTS	16	1
–	17	AC–3 FOR DOCK DOOR	3/4"	#12

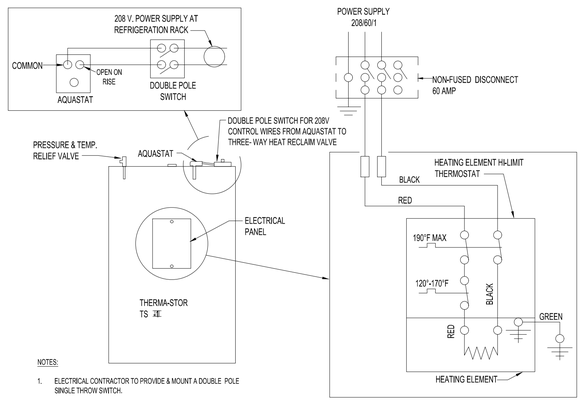


UPS UNIT NOTES:

1. THIS DIAGRAM MUST BE FOLLOWED PER PROPER PHASING AND OPERATION.
2. PANEL 'CR' TO BE POWERED BY 208 VAC HOT, NEUTRAL AND ISOLATED GROUND.
3. ALL ELECTRICAL WIRING WILL BE DONE IN A MANNER ACCEPTABLE TO FOOD LION AND THE N.E.C.
4. FOR ANY QUESTIONS, CALL NATIONAL POWER CORPORATION AT (336) 613-3679.
5. NATIONAL POWER IS RESPONSIBLE FOR STARTING UP THE U.P.S. SYSTEM.
6. 6"X6"X4"D JUNCTION BOX SHALL BE FLUSH MOUNTED DIRECTLY BEHIND THE BYPASS SWITCH FOR CONCEALED UPS WIRING.

02 "UPS" UNIT WIRING DIAGRAM

NOT TO SCALE



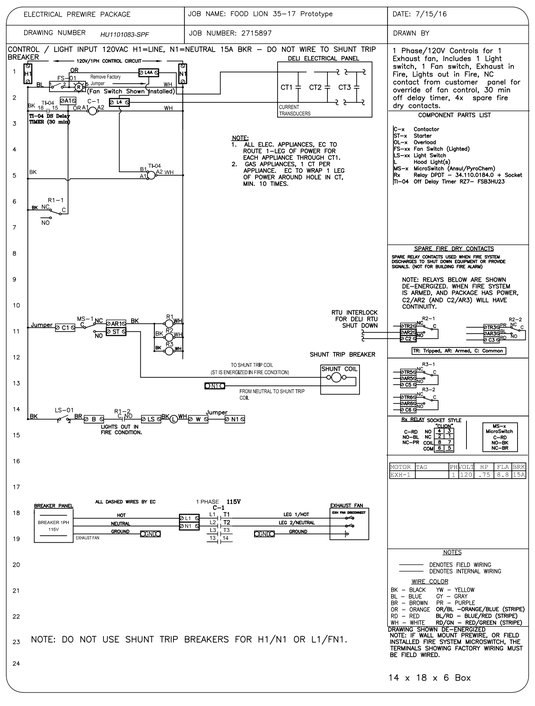
01 WIRING DETAIL FOR THERMA-STOR III-1 RECLAIM WATER HEATER

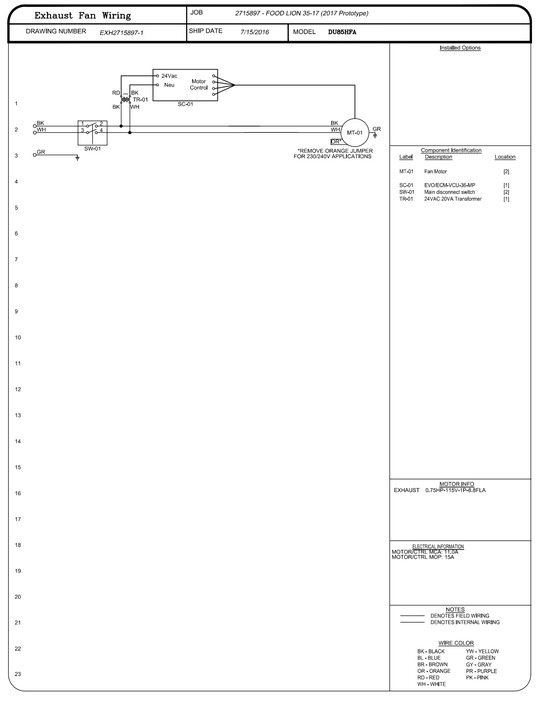
NOT TO SCALE

SYMBOL LEGEND

S	SINGLE POLE SWITCH		NEW FLOOR STUB-UP
S3	THREE WAY SWITCH		ELECTRICAL CONNECTION UNDER CASE
Sp	SINGLE POLE SWITCH w/ PILOT LIGHT INDICATOR		LIGHT FIXTURE
	DUPLEX RECEPTACLE		LIGHT FIXTURE (SEE LIGHT FIXTURE SCHEDULE ON THIS SHEET)
W.P.	WEATHERPROOF RECEPTACLE		EXIT LIGHT
4	QUADRAPLEX RECEPTACLE		EMERGENCY LIGHT FIXTURE
	SPECIAL RECEPTACLE (TYPE AS NOTED)		EXHAUST FAN
J	JUNCTION BOX	PB	PUSHBUTTON
	MICROPHONE	B	SIGNAL BELL
	TELEPHONE JACK, 2"x4" UNLESS NOTED OTHERWISE	S	SENSOR....TEMP/HUMIDITY (HANDY BOX MTD.)
	DISCONNECT SWITCH (TYPE AS NOTED)	SC	SCALE COMMUNICATION OUTLET
	MAGNETIC SWITCH	#	ENERGY MANAGEMENT SYSTEM LOAD NUMBER
	DROP FROM CEILING	V	SPEAKER VOLUME CONTROL

HOOD SYSTEM WIRING DETAIL (REFER AND COORDINATE WITH MECHANICAL CONTRACTOR)





LIGHT FIXTURE SCHEDULE NOTES

1. LIGHT FIXTURES SHALL BE PURCHASED FROM WESCO ENERGY SOLUTIONS. LIGHTING DESIGN AND PROJECT MANAGEMENT DEPARTMENT, 200 MIDWAY PARK DRIVE, MIDDLETOWN, NY 10940. FOR PURCHASE, CONTACT MICHAEL ZALENSKI AT 508-244-9753. EMAIL: foodlionproduct@wescodist.com; ALL FIXTURES SHALL BE INSTALLED AND PROVIDED BY ELECTRICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES, RATINGS, LENGTHS, ETC.
2. SEE SHEET E1.01a FOR MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES. COORDINATE CABLE MOUNTING LENGTH WITH MOUNTING HEIGHT OF FIXTURE.
3. PROVIDE WHITE "SO" POWER FEED, TIE WRAP "SO" CORD NEATLY TO AIRCRAFT CABLE. SUSPEND FIXTURE WITH AIRCRAFT CABLE.
4. FIXTURE TO BE MOUNTED ON TOP OF REFRIGERATED CASE. MOUNT FIXTURE ADJACENT TO DECOR HEADER ON TOP OF CASE.
5. AMERLUX SYSTEM SHALL BE SUSPENDED WITH AIRCRAFT CABLE. ELECTRICAL CONTRACTOR TO PROVIDE WHITE "SO" CORD POWER FEED. DECOR MANUFACTURER TO INSTALL TRACK AND SPOTLIGHTS.
6. NOT USED.
7. MOUNTED TO BACK OF BULKHEAD.
8. (2) "N3" FIXTURES AT THE STORE EXTERIOR TO HAVE A REMOTE LED EMERGENCY DRIVER. ELECTRICAL CONTRACTOR TO PROVIDE REMOTE EMERGENCY LED DRIVER "PHILLIPS BODINE BSL310C2WM". SEE SHEET E1.01 FOR LOCATION.
9. DIRECT LIGHTS DOWNWARD.
10. FIXTURE PROVIDED BY CANOPY VENDOR.

LIGHT FIXTURE SCHEDULE

LIGHT FIXTURES SHALL BE PURCHASED FROM WESCO. EMAIL: foodlionproduct@wescodist.com.

LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	QUANTITY	DESCRIPTION	MANUFACTURER	LABEL	WATTS	VOLTS	NOTES
A	3	8' LED STRIP LIGHT	LITHONIA	CLX L96 6000LM SEF RDL MVOLT GZ10 35K 80CRI PLR1LVG WH	37	120	
A1	1	4' LED STRIP LIGHT	LITHONIA	CLX L48 3000LM SEF RDL MVOLT GZ10 35K 80CRI PLR1LVG WH	19	120	
B	0	8' LED STRIP LIGHT	LITHONIA	CLX L96 8000LM HEF RDL MVOLT GZ10 35K 80CRI PLR1LVG WH	48	120	3
Be	1	8' LED STRIP LIGHT WITH BATTERY BACKUP	LITHONIA	CLX L96 8000LM HEF RDL MVOLT GZ10 35K 80CRI PLR1LVG WH with battery backup	48	120	
B1	5	4' LED STRIP LIGHT	LITHONIA	CLX L48 4000LM HEF RDL MVOLT GZ10 35K 80CRI PLR1LVG WH	24	120	3
C	6	8' LED STRIP LIGHT	LITHONIA	CLX L96 10000LM HEF RDL MVOLT GZ10 35K 80CRI PLR1LVG WH	65	120	3
C1	6	4' LED STRIP LIGHT	LITHONIA	CLX L48 5000LM HEF RDL MVOLT GZ10 35K 80CRI PLR1LVG WH	30	120	
C1e	4	4' LED STRIP LIGHT WITH BATTERY BACKUP	LITHONIA	CLX L48 5000LM HEF RDL MVOLT GZ10 35K 80CRI E10WLCP SPD PLR1LVG WH	30	120	
D	210	8' LED STRIP LIGHT	LITHONIA	CLX L96 14000LM HEF RDL MVOLT GZ10 35K 80CRI PLR1LVG WH	88	120	3
D1	11	4' LED STRIP LIGHT	LITHONIA	CLX L48 7000LM HEF RDL MVOLT GZ10 35K 80CRI PLR1LVG WH	44	120	3
E3	15	LED HIGH BAY FIXTURE (PRODUCE/WINE)	LITHONIA	IBG 18000 HEF AFL GND MVOLT GZ10 35K 80CRI DWH	100	120	
E5	5	LED HIGH BAY FIXTURE (DELI)	LITHONIA	IBG 36000 HEF AFL GND MVOLT GZ10 35K 80CRI DWH	214	120	
E6	12	LED HIGH BAY FIXTURE (FRONT END)	LITHONIA	IBG 30000 HEF AFL GND MVOLT GZ10 35K 80CRI DWH	170	120	
F	19	2x4 FLAT PANEL LED	LITHONIA	CPX 2x4 4000LMHE 80CRI 35K SWL	35	120	
Fe	11	2x4 FLAT PANEL LED WITH BATTERY BACKUP	LITHONIA	CPX 2x4 4000LMHE 80CRI 35K SWL WITH BATTERY BACKUP	35	120	
G	5	2x2 FLAT PANEL LED FIXTURE	LITHONIA	CPX 2x2 3200LMHE 80CRI 35K SWL	28	120	
Ge	1	2x2 FLAT PANEL LED FIXTURE WITH BATTERY BACKUP	LITHONIA	CPX 2x2 3200LMHE 80CRI 35K SWL WITH BATTERY BACKUP	28	120	
H	0	1x4 FLAT PANEL LED FIXTURE	LITHONIA	CPX 1x4 3200LMHE 80CRI 35K SWL	27	120	
I	15	8' LED COOLER/FREEZER LINEAR	LITHONIA	FEM L96 12000LM LPAFL MD MVOLT 40K 80CRI	76	120	
I1	14	4' LED COOLER/FREEZER LINEAR	LITHONIA	FEM L48 6000LM LPAFL MD MVOLT 40K 80CRI	39	120	
K1	66	HIGH CAPACITY EMERGENCY BUGEYE LIGHTING	MULE	TSR-HO-WHBM	11	120	
K2	17	LED RED EXIT SIGN WITH BATTERY BACKUP	MULE	MXBRU	0.65	120	
K3	10	ARCHITECTURALLY STYLED HIGH PERFORMANCE LED EGRESS LUMINAIRE	MULE	MAKO-LED ACEM DB	11	120	
L	14	8" LED CYLINDER	HE WILLIAMS	8CR-T L 20 L60 835 SLVDIM UNV O M CM96	80	120	
M	0	EXTERIOR LED CANOPY LIGHT	CREE	CPY250-C-8L-40K7-F-UL-DM-WH	53	120	
N1	2	DOCK LIGHT WITH SWING ARM	ELITE	ODL1-LED-50W-ODL-ACC-SA40-360	53	120	
N2	2	4' LED VAPOR TIGHT STRIP FOR REAR CANOPY	LUMINOSO	VPS4-14.40W-840K-J-Y-FR-SP	40	120	9
N3	2	LED EXTERIOR SCONCE LIGHT, WAREHOUSE SHADE COLLECTION GOOSENECK	HI-LITE MFG.	H-15312-B-118/6/LED4/35/BCM-M *850 LUMENS-3500K *118-PAINTED ALUMINUM FINISH	21	120	
N5	1	6" ROUND LED	ELITE	HH6-LED-2000L-DIM10-120-MD-30K-85/HH6-6501-CL-SCH	27	120	
O	0	PRODUCE SPOT LIGHT	AMERLUX	SPEQ-M-A17 26.ST.T.EK.120.NF.3CLALE/T E	30	120	5
O1	0	BEER/WINE SPOT LIGHT	AMERLUX	SPEQ-M-A17 21.ST.T.EK.120.FL 309.LE/T E	30	120	5
O2	0	POTATO FLOOD LIGHT	AMERLUX	EDR-6666-SPEQ-M-A17.21.ST.T.EK.120.FL 279.LE/T E-CH	21	120	5
P	-------	6" LOW PROFILE RECESSED LIGHT	GLOBE	SUPPLIED WITH ALLEN INDUSTRIES CANOPY	12	120	10
S1	4	CAN LIGHTS	LITHONIA	LDN8-35K-60-L08-WR-LSS-TRW-MVOLT-GZ10	73	120	
W	0	EXTERIOR WALL PACK	LUMARK	PRV-P-C20-D-UNV-T4-WM-(FINISH)	73	120-277	

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NO	DATE	REMARKS

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PHASE III–
FOOD LION
INTERIOR BUILD
OUT

TIMBER
DEVELOPMENT
CORPORATION

8113 BALL GROUND HWY
BALL GROUND, GA 30107

PROJECT NO: 2026.0771
DATE: 11/13/26

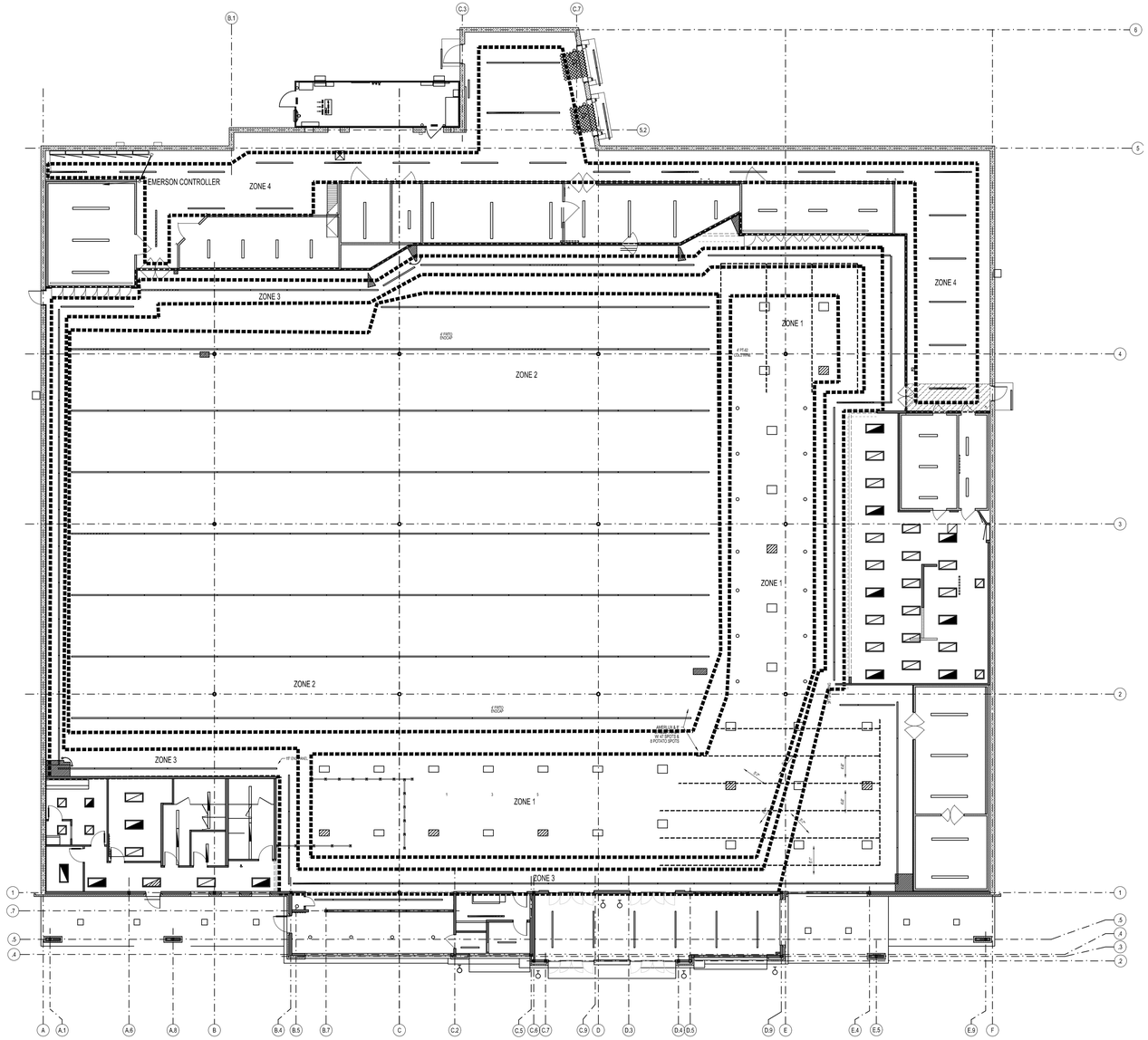
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ELECTRICAL SCHEDULES AND DIAGRAMS

CHECKED: SN DRAWN: NA

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01 LED DIMMING ZONE PLAN
NOT TO SCALE

EMS LOAD 1 (WORK LIGHTS)

LOCATION
ALL RESTROOMS
ALL COOLERS
ALL FREEZERS
LOUNGE
2/3 SALES AREA LIGHTING
DPT., MGR'S OFFICE/ ASSOC. TRAINING ROOM
JANITOR'S AREA
MEAT & PRODUCE PREP
STORE MANAGERS OFFICE
CASH OFFICE/WORK ROOM
CORRIDOR
SERVICES ALCOVE
DSD STATION
2/3 RECEIRING AREA / GROCERY STAGING
DATA CLOSET
VESTIBULE LIGHTS
JANITOR'S AREA EXHAUST FAN
CAVITY ABOVE CASH OFFICE
2/3 HI BAY LIGHTING

EMS LOAD 2 (NIGHT LIGHTS)

LOCATION
1/3 SALES AREA LIGHTING
1/3 RECEIRING AREA / GROCERY STAGING
1/3 HI BAY LIGHTING

EMS LOAD 3 (SECURITY)

LOCATION
REAR CANOPY LIGHTS
FRONT CANOPY LIGHTS

EMS LOAD 4 (DELI/BAKERY)

LOCATION
DELI/BAKERY LIGHTING
DELI/BAKERY HOOD
FRYER

EMS LOAD 5 (STOREFRONT)

LOCATION
EXTERIOR STOREFRONT SIGN LIGHTING
ROAD SIGN LIGHTING

EMS LOAD 6 (MED TEMP CASES)

LOCATION
BEER SIGNAGE RECEPTACLES
DAIRY CASE LIGHTS
PRODUCE CASE LIGHTS
MEAT CASE LIGHTS
BAKERY CASE LIGHTS
LUNCH MEAT CASE LIGHTS
SEASONAL TABLE CASE

EMS LOAD 7 (LOW TEMP CASES)

LOCATION
FROZEN FOOD LIGHTS
FROZEN MEAT LIGHTS
ICE CREAM LIGHTS
FROZEN BAKERY LIGHTS

EMS LOAD 8 (PARKING LOT LIGHTS)

LOCATION
PARKING LOT LIGHTING DIRECTLY AFFECTING STORE OPERATIONS

EMS LOAD 9

LOCATION
AMERILUX LIGHTING

EMS LOAD 10 (EXHAUST FAN)

LOCATION
MECHANICAL ROOM

EMS LOAD 11 (SUPPLY FAN)

LOCATION
MECHANICAL ROOM

EMS LOAD 12 (WATER HEATERS)

LOCATION

EMS LOAD 13 (LIGHTING AT DECOR)

LOCATION
DECOR LIGHTING

EMS LOAD 14 (WALL/ACCENT LIGHTING)

LOCATION
PERIMETER WALL LIGHTING
GARDEN COOLER UPLIGHTING
PRODUCE DOWN LIGHTS

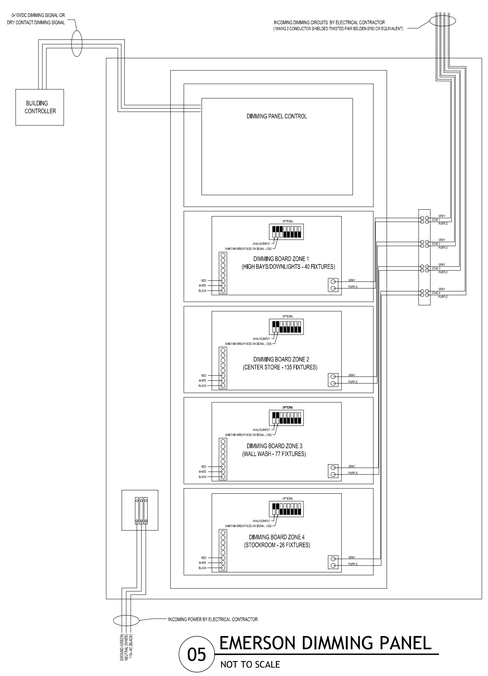
EMS LOAD 15 (PARKING LOT SECURITY LIGHTS)

LOCATION
STORE PARKING LOT SECURITY LIGHTING

EMS LOAD 16 (BEER CASE LIGHTING)

LOCATION
BEER CASE LIGHTING

02 EMS LOAD SCHEDULE
NOT TO SCALE



05 EMERSON DIMMING PANEL
NOT TO SCALE

ELECTRICAL CONTRACTOR RESPONSIBILITIES

1. PULL DIMMING WIRING FOR ALL FOUR ZONES BACK TO DIMMING PANEL.
2. VERIFY THAT ALL DIMMING ZONES ARE COMMUNICATING WITH THE DIMMING PANEL .
3. INSTALL DIMMING JUMPERS AT BREAKS BETWEEN WALL WASH FIXTURES (TYP OF 9).
4. INSTALL EMERSON DIMMING PANEL IN THE ELECTRICAL AREA OF THE STORE.

WESCO RESPONSIBILITIES

5. CONNECT THE DIMMING PANEL WITH THE CONTROLLER IN THE BMS VIA CABLE.
6. INCLUDE EMERSON DIMMING PANEL WITH LIGHTING PACKAGE AND DELIVER TO EC .
7. CONFIRM THAT THE EC PROPERLY CONNECTED FIXTURES IN THE FOUR DIMMING ZONES.
8. VERIFY THE DIMMING PANEL IS COMMUNICATING PROPERLY WITH THE E3 IN THE BMS.
9. SET ALL ZONES AT THE PROPER DIMMING LEVEL AS DETAILED IN THE ILLUMINANCE CRITERIA.

03 DIMMING RESPONSIBILITY MATRIX
NOT TO SCALE

VERIFIED BY WESCO:

1. TAKE FOOT-CANDLE READINGS AT LOCATIONS ON THE PLAN MARKED WITH AN "X".
2. TAKE FOOT-CANDLE READINGS AT 30" AFF .
3. Fc TARGET FOR FRONTEND (ZONE 1) IS 100-110; (SET AT 30% DIMMING).
4. Fc TARGET FOR PRODUCE AMBIENT(ZONE 1) IS 70-80; (SET AT 30% DIMMING).
5. Fc TARGET FOR DELI SALES (ZONE 1) IS 120-130; (SET AT 30% DIMMING).
6. Fc TARGET FOR BEER/WINE AMBIENT (ZONE 1) IS 70-80 (SET AT 30% DIMMING).
7. Fc TARGET FOR GROCERY AISLES (ZONE 2) IS 70-80; (SET AT 30% DIMMING).
8. WALL WASH (ZONE 3) IS TO BE SET AT 30% DIMMING.
9. Fc TARGET FOR STOCKROOM (ZONE 4) IS 30-40; (SET AT 40% DIMMING).

04 ILLUMINANCE TARGETS
NOT TO SCALE

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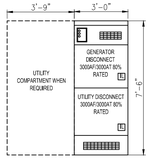
PROJECT NO: 2026.0771
DATE: 11/13/26

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EMS LOAD AND DIMMING SCHEDULE

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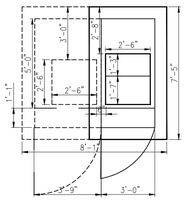
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NOTE:
THE PHASE ROTATION COMING INTO GEAR IS REQUIRED TO BE CLOCKWISE (ABC)

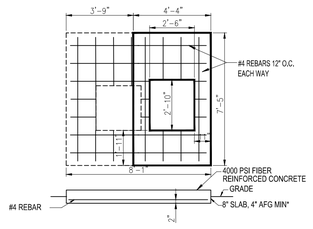
06 QUICK CONNECT ELEVATION

SCALE: 1/4"=1'-0"



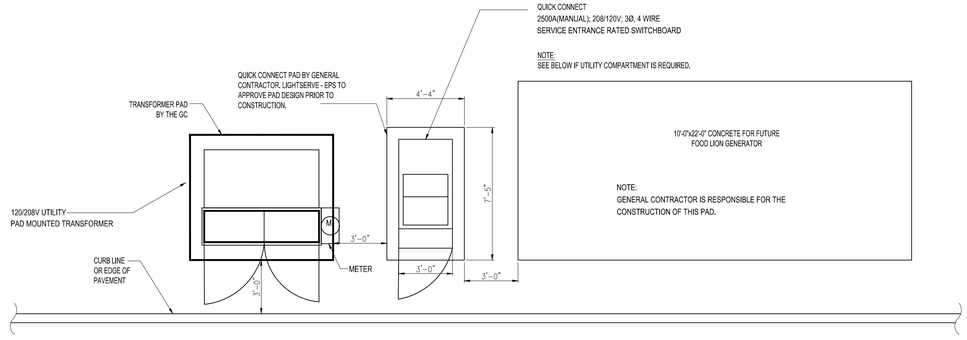
05 QUICK CONNECT PAD QUICK CONNECT LAYOUT

SCALE: 1/4"=1'-0"



04 QUICK CONNECT PAD DETAIL

SCALE: 1/4"=1'-0"



03 PARTIAL SITE PLAN

SCALE: 1/4"=1'-0"

GENERAL NOTES:

1. 3,000 PSI CONCRETE.
2. QUICK CONNECT TO BE SET ON NEW CONCRETE PAD 8"THICK 4"AFG, WITH WIRE MESH REINFORCEMENT.
3. ORIENTATION MAY VARY AT SITE CONSTRUCTION.
4. EXACT LOCATION OF LIGHTSERVE - EPS QUICK CONNECT PAD TO BE DETERMINED IN THE FIELD.

I. DESCRIPTION OF PROJECT SCOPE

A. GENERAL
1. THE PURPOSE OF THIS PROJECT IS TO PROVIDE FOOD LION WITH A QUICK CONNECT TO ENABLE A PORTABLE GENERATOR A SAFE MEANS OF CONNECTION FOR STANDBY PURPOSE IN ACCORDANCE WITH NEC 702.
2. REFER TO DETAIL 1 ON THIS SHEET FOR A ONE-LINE DIAGRAM. NOTE, THE QUICK CONNECT IS PROVIDED WITH TWO CIRCUIT BREAKERS, 52-MUT (MAIN UTILITY TIE) AND 52-G (GENERATOR).
3. 52-MUT AND 52-G WILL BE KEY-INTERLOCKED SO ONLY ONE OF THE TWO BREAKERS WILL BE ABLE TO BE CLOSED AT ANY ONE TIME.

II. PROJECT SPECIFICATIONS

A. THIS PROJECT WILL BE COMPLETED ON A DESIGN-BUILD BASIS.
B. PROJECT INCLUDES:
1. MINOR SITE PREPARATION AND CONCRETE PADS.
2. POWER WIRING AND UTILITY INTERCONNECT.
3. MISCELLANEOUS ELECTRICAL CONSTRUCTION FOR A COMPLETE SYSTEM.
C. COMPLY WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES.
D. WARRANT ELECTRICAL WORK AGAINST FAULTY MATERIAL OR WORKMANSHIP FOR A PERIOD OF ONE YEAR.
E. IN ADDITION TO APPLICABLE LOCAL, STATE AND FEDERAL CODES, PERFORM WORK SPECIFIED IN THIS DIVISION IN ACCORDANCE WITH STANDARDS LISTED BELOW:
1. NFPA-70: NATIONAL ELECTRICAL CODE
F. MAINTAIN A RECORD SET OF DRAWINGS ON THE JOB SITE.
G. EQUIPMENT AND MATERIALS FURNISHED SHALL BE LISTED BY UL.
H. SPECIFICATIONS AND DRAWINGS INDICATE NAME, TYPE AND/OR CATALOG NUMBER OF MATERIALS AND EQUIPMENT TO ESTABLISH STANDARDS OF QUALITY.
I. THESE DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED FOR EXACT SIZES. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. WHERE CONFLICTS OCCUR BETWEEN CONTRACT DOCUMENTS AND THESE RECOMMENDATIONS, A RULING SHALL BE REQUESTED FROM CUSTOMER BEFORE PROCEEDING WITH SUCH WORK.
J. REPAIR OR REPLACE DAMAGE CAUSED BY CUTTING IN PERFORMANCE OF WORK. REPAIRS SHALL BE PERFORMED WITH MATERIALS WHICH MATCH EXISTING MATERIALS AND BE INSTALLED IN ACCORDANCE WITH APPROPRIATE SECTIONS OF THESE SPECIFICATIONS.
K. PROVIDE TRENCHING, EXCAVATION, AND BACKFILLING NECESSARY FOR PERFORMANCE OF WORK UNDER THIS DIVISION. PROVIDE FOUNDATIONS AND PADS FOR ELECTRICAL EQUIPMENT AS SHOWN ON THE DRAWINGS OR SPECIFIED HEREIN.
L. ON COMPLETION OF WORK, INSTALLATION SHALL BE COMPLETELY OPERATIONAL AND ENTIRELY FREE FROM GROUNDS, SHORT CIRCUITS AND OPEN CIRCUITS. PERFORM OPERATIONAL TESTS AS REQUIRED TO DEMONSTRATE SUBSTANTIAL COMPLETION OF THE WORK IN THE PRESENCE OF CUSTOMER AND AUTHORITIES HAVING JURISDICTION, WHERE REQUIRED.
M. OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND INSPECTION FEES REQUIRED FOR ELECTRICAL INSTALLATION.
N. PROVIDE WARNING SIGNS CALLED FOR BY NFPA 70 AND OSHA.
O. ALL PAD-MOUNTED EQUIPMENT TO BE SECURELY FASTENED/BOLTED. USE (4) .50-14 SAE GRADE 5 BOLTS WITH WIDE O.D. WASHERS, TORQUED TO 50 FT/LBS. FOR QUICK CONNECT.

RACEWAYS AND CONDUIT SYSTEMS

1. PROVIDE A COMPLETE CONDUIT SYSTEM WITH ASSOCIATED COUPLINGS, CONNECTORS AND FITTINGS. RIGID AND EMT CONDUIT SHALL BE HOT DIPPED, GALVANIZED, OR ELECTROGALVANIZED STEEL BY ALLIED, GENERAL ELECTRIC, REPUBLIC, TRIANGLE OR WHEATLAND. CONDUIT, CONNECTORS, COUPLINGS AND FITTINGS SHALL BE UL LISTED AND LABELED.
2. PVC CONDUIT SHALL BE CARLON OR EQUIVALENT, SCHEDULE 40, 90°C RATED.
3. ASSOCIATED COUPLINGS, CONNECTORS AND FITTINGS SHALL BE PVC AS MANUFACTURED BY CARLON OR EQUIVALENT.
4. ELECTRICAL METALLIC TUBING (EMT) WILL BE USED AS FOLLOWS:
A. ABOVE GROUND FEEDERS.
5. RIGID STEEL CONDUIT SHALL BE USED AS FOLLOWS:
A. FEEDERS EXPOSED TO SEVERE MECHANICAL DAMAGE.
6. WIREWAYS THAT SEPARATE PROTECTED AND UNPROTECTED FEEDERS.
7. POLYVINYL CHLORIDE (PVC) SHALL BE USED AS FOLLOWS:
A. UNDERGROUND
8. CONDUITS WHICH ENTER FROM OUTSIDE THE BUILDING SHALL BE GROUTED-IN TO PREVENT ENTRY OF GASES, VAPORS, INSECTS OR RODENTS.
9. CONDUITS SHALL BE MECHANICALLY AND ELECTRICALLY CONTINUOUS FROM CABINET TO CABINET PULL OR JUNCTIONS BOXES.
10. PROVIDE CONDUIT BUSHINGS WHERE THE TERMINATING ENCLOSURE DOES NOT PROVIDE PROTECTION.

CONDUCTORS - 600 VOLTS AND BELOW

1. ALL WIRING FOR A COMPLETE WORKING SYSTEM.
2. CONDUCTORS SHALL BE ALUMINUM CONDUCTORS WITH MINIMUM 300 VOLT INSULATION. CONDUCTORS SHALL BE STRANDED AL TYPE XHHW. ALL CONDUCTORS OUTDOORS TO BE RATED FOR WET LOCATION.
3. COLOR CODE CONDUCTORS FOR 120/208 SYSTEM AS FOLLOWS:
1. PHASE A - BLACK
2. PHASE B - RED
3. PHASE C - BLUE
4. NEUTRAL - WHITE
5. GROUND - GREEN
4. CABLE SHALL BE ANACONDA, GENERAL CABLE, OKONITE, ROME, TRIANGLE OR SOUTHWIRE.
5. CONDUCTORS OUTDOORS SHALL BE LISTED FOR USE IN WET LOCATIONS.
6. FINE-STRANDED CONDUCTORS TO UTILIZE COMPRESSION LUGS.

OUTLET BOXES PULL AND JUNCTION

1. OUTLET BOXES SHALL BE NATIONAL, STEEL CITY, APPLETON, RACO, OR GENERAL ELECTRIC.
2. PROVIDE JUNCTION BOXES AS SHOWN ON DRAWINGS AND OTHERWISE WHERE REQUIRED, SIZED ACCORDING TO NUMBERS OF CONDUCTORS IN BOX OR TYPE OF SERVICE TO BE PROVIDED.

QUICK CONNECT

1. LIGHTSERVE - EPS WILL FURNISH ONE QUICKCONNECT RATED AT 120/208 VOLT; 3000 AMPERE (MANUAL) 3Ø, 4-WIRE.
2. BUS BARS WILL BE RIGIDLY BRACED TO COMPLY WITH INTEGRATED EQUIPMENT RATING OF SWITCHBOARD FOR 100,000 AMPS, RMS. BUS BARS WILL BE COPPER.
3. OVERCURRENT PROTECTION SHALL HAVE 65K AIC RATING.
4. RECEIVE, SET AND INSTALL THE SWITCHBOARD PER THE DRAWINGS.

GROUDING

1. THE ENTIRE SYSTEM OF EXTENSION OF RACEWAYS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH ARTICLE 4702 AND 4250 OF THE 2020 NATIONAL ELECTRICAL CODE.
2. REFER TO GROUNDING DETAIL 2 ON THIS SHEET.

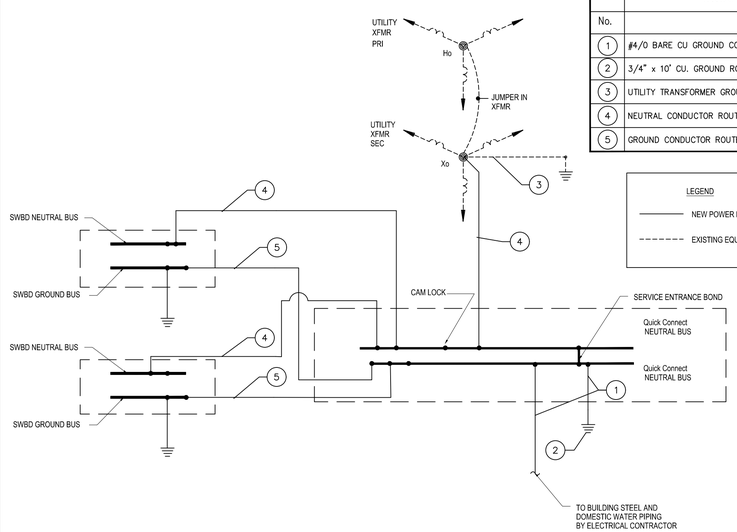
PROJECT SCOPE OF WORK

GENERAL CONTRACTOR RESPONSIBILITY PRIOR TO LIGHTSERVE - EPS ARRIVING ONSITE:
1. INSTALL CONDUIT FROM MDPS TO QUICK CONNECT AND FROM QUICK CONNECT TO UTILITY TRANSFORMER.
2. SUPPLY & INSTALL NECESSARY UTILITY METER CONDUIT AND METER BASE PER UTILITY STANDARDS.
3. INSTALL BUILDING GROUNDING OUT TO QUICK CONNECT (BUILDING STEEL & COLD WATER PIPE BONDS)
4. HAVE UTILITY SET OR POUR TRANSFORMER PAD.
5. POUR QUICK CONNECT PAD (DESIGN APPROVED BY LIGHTSERVE - EPS PRIOR TO POURING)
6. COORDINATE UTILITY TO SET TRANSFORMER SAME DAY THAT LIGHTSERVE - EPS IS ONSITE.
7. PULL WIRE BETWEEN MDP'S AND QUICK CONNECT THE DAY PRIOR TO LIGHTSERVE - EPS ARRIVING ONSITE.

LIGHTSERVE - EPS RESPONSIBILITY:
1. INSTALL GROUNDING SYSTEM AT QUICK CONNECT.
2. SUPPLY & INSTALL WIRE BETWEEN QUICK CONNECT AND UTILITY TRANSFORMER.
3. SET QUICK CONNECT.
4. TERMINATE ALL WIRE AND GROUNDING INSIDE QUICK CONNECT.
- ELECTRICAL CONTRACTOR TO TERMINATE CONDUCTORS INSIDE STORE.
- UTILITY TO TERMINATE ALL CONDUCTORS INSIDE UTILITY TRANSFORMER.
5. ALL WORK IDENTIFIED AS THE RESPONSIBILITY OF LIGHTSERVE - EPS SHALL BE PERMITTED SEPARATELY BY LIGHTSERVE - EPS. THIS WORK SHOULD NOT FALL UNDER THE PERMIT OF THE BUILDING ELECTRICAL CONTRACTOR

IMPORTANT NOTE:
1. GENERAL CONTRACTOR NOT TO INCLUDE QUICK CONNECT OR LIGHTSERVE - EPS INSTALL SCOPE IN THEIR BID. THIS IS A FOOD LION NATIONAL ACCOUNT.
2. ANY WORK WITHIN THE ABOVE DESCRIBED UTILITY SCOPE THAT THE UTILITY DEEMS CUSTOMER RESPONSIBILITY WILL FALL UNDER THE ELECTRICAL CONTRACTORS SCOPE.

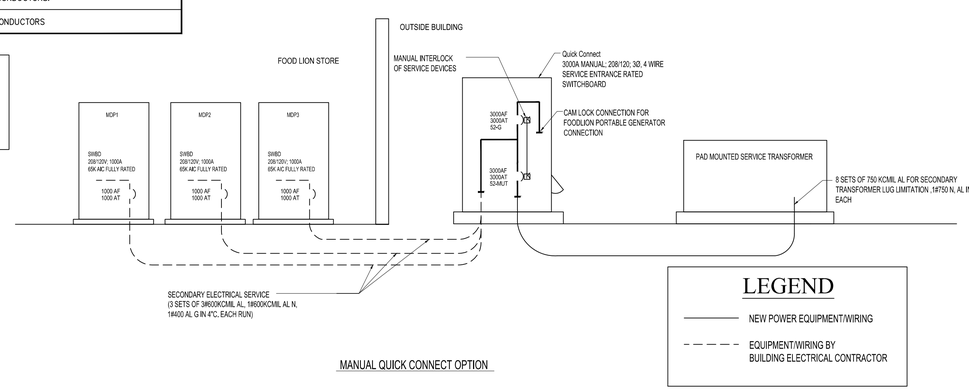
	GROUNDING LEGEND
No.	DESCRIPTION
1	#4/0 BARE CU GROUND CONDUCTOR
2	3/4" x 10' CU. GROUND ROD MIN 6' APART
3	UTILITY TRANSFORMER GROUND
4	NEUTRAL CONDUCTOR ROUTED WITH PHASE CONDUCTORS.
5	GROUND CONDUCTOR ROUTED WITH PHASE CONDUCTORS



LEGEND
NEW POWER EQUIPMENT/WIRING
EXISTING EQUIPMENT/WIRING

02 GROUDING DETAIL

NOT TO SCALE



MANUAL QUICK CONNECT OPTION

LEGEND
NEW POWER EQUIPMENT/WIRING
EQUIPMENT/WIRING BY BUILDING ELECTRICAL CONTRACTOR

01 ELECTRICAL DISTRIBUTION DIAGRAM

NOT TO SCALE

CONTACT:
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LIGHTSERVE- EPS
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CHARLOTTE, NC 28269
Johnny.Phipps@electricalpower.solutions
(800)704-9943 (OFFICE)
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SEAL:

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90% REVIEW SET

NO DATE REMARKS
REVISIONS

PHASE III–
FOOD LION
INTERIOR BUILD OUT

TIMBER DEVELOPMENT CORPORATION
8113 BALL GROUND HWY
BALL GROUND, GA 30107

PROJECT NO: 2026.0771
DATE: 11/13/26

E7.01
LIGHT SERVE - EPS PLANS AND DETAILS

CHECKED: SN DRAWN: NA

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COM*check* Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: 2026.0771 - TIMBER DEVELOPMENT-FOODLION - BALL GROUND, GA
Project Type: New Construction

Construction Site:
8113 BALL GROUND HWY,
BALL GROUND, Georgia 30107

Owner/Agent:
MICHAEL TIMMONS
TIMBER DEVELOPMENT CORP.
1060 WEST STATE RD. 434, SUITE 156
LONGWOOD, Florida 32750
407-227-7277
TIMBERDEV@AOL.COM

Designer/Contractor:
Interplan LLC
220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, Florida 32701
407-645-5008

Additional Efficiency Package(s)

Credits: 1.0 Required 0.0 Proposed

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-FOODLION STORE (Common Space Types;Sales Area)	37361	1.59	59404
		Total Allowed Watts =	59404

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-FOODLION STORE (Common Space Types;Sales Area)				
LED: A: Other:	1	3	37	111
LED: A1: Other:	1	1	19	19
LED: Be: Other:	1	1	48	48
LED: B1: Other:	1	5	24	120
LED: C: Other:	1	6	60	360
LED: C1: Other:	1	6	30	180
LED: C1e: Other:	1	4	30	120
LED: D: Other:	1	210	87	18270
LED: D1: Other:	1	11	44	484
LED: E3: Other:	1	15	100	1500
LED: E5: Other:	1	5	216	1080
LED: Fe: Other:	1	11	39	429
LED: F: Other:	1	19	39	741
LED: G: Other:	1	5	27	135
LED: Ge: Other:	1	1	27	27
LED: I: Other:	1	15	38	570
LED: I1: Other:	1	14	39	546
LED: K1: Other:	1	66	11	726
LED: K2: Other:	1	17	1	17

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
LED: L: Other:	1	14	49	686
LED: N1: Other:	1	2	53	106
LED: N3: Other:	1	2	21	42
LED: N5: Other:	1	1	27	27
LED: E6: Other:	1	12	170	2040
LED: S1: Other:	4	4	73	292
			Total Proposed Watts =	28676

Interior Lighting PASSES: Design 52% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Farah Osman — Name - Title
Farah Osman — Signature
10.23.26 — Date

COM*check* Software Version COMcheckWeb

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: 2026.0771 - TIMBER DEVELOPMENT-FOODLION - BALL GROUND, GA
Project Type: New Construction
Exterior Lighting Zone 3 (Other (LZ3))

Construction Site:
8113 BALL GROUND HWY,
BALL GROUND, Georgia 30107

Owner/Agent:
MICHAEL TIMMONS
TIMBER DEVELOPMENT CORP.
1060 WEST STATE RD. 434, SUITE 156
LONGWOOD, Florida 32750
407-227-7277
TIMBERDEV@AOL.COM

Designer/Contractor:
Interplan LLC
220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, Florida 32701
407-645-5008

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
Canopy Lighting (Entry canopy)	1630 ft2	0.4	Yes	652
Rear Receiving Area (Other door (not main entry))	4 ft of door	20	Yes	80
Employee door at Grocery Staging (Other door (not main entry))	3 ft of door	20	Yes	60
Employee door at rear load area ramp (Other door (not main entry))	3 ft of door	20	Yes	60
Employee door at janitor's area (Other door (not main entry))	3 ft of door	20	Yes	60
Building Side (Other door (not main entry))	80 ft of	20	Yes	1600
Building Side (Other door (not main entry))	80 ft of	20	Yes	1600
Building Side (Other door (not main entry))	80 ft of	20	Yes	1600
Building Side (Other door (not main entry))	80 ft of	20	Yes	1600
			Total Tradable Watts (a) =	7312
			Total Allowed Watts =	7312
			Total Allowed Supplemental Watts (b) =	750

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 750 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Canopy Lighting (Entry canopy, 1630 ft2): Tradable Wattage				
LED: K3: Other:	1	2	11	22
LED: N3: Other:	1	4	21	84
LED: M: Other:	1	8	53	424
Rear Receiving Area (Other door (not main entry), 4 ft of door width): Tradable Wattage				
LED: N2: Other:	1	4	40	160
Employee door at Grocery Staging (Other door (not main entry), 3 ft of door width): Tradable Wattage				
LED: N2: Other:	1	1	40	40

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Employee door at rear load area ramp (Other door (not main entry), 3 ft of door width): Tradable Wattage				
LED: K3: Other:	1	2	11	22
Employee door at janitor's area (Other door (not main entry), 3 ft of door width): Tradable Wattage				
LED: N2: Other:	1	1	40	40
LED: K3: Other:	1	1	11	11
Building Side (Other door (not main entry), 80 ft of door width): Tradable Wattage				
LED: A5: Other:	1	1	73	73
LED: A5: Other:	1	1	73	73
LED: A5: Other:	1	1	73	73
LED: A5: Other:	1	1	73	73
			Total Tradable Proposed Watts =	1095

Exterior Lighting PASSES: Design 86% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title | Signature | Date

COM*check* Software Version COMcheckWeb

Inspection Checklist

Energy Code: 2015 IECC

Requirements: 100.0% were addressed directly in the COM*check* software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C103.2 [PR8][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C406 [PR9][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.1 [EL15][1]	Lighting controls installed to uniformly reduce the lighting load by at least 50%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.1 [EL18][1]	Occupancy sensors installed in required spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.1, C405.2.2.3 [EL23][1]	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.2.1 [EL22][1]	Automatic controls to shut off all building lighting installed in all buildings.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.3 [EL16][1]	Daylight zones provided with individual controls that control the lights independent of general area lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.3, C405.2.3.1, C405.2.3.2 [EL20][1]	Primary sidelighted areas are equipped with required lighting controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.3, C405.2.3.1, C405.2.3.3 [EL21][1]	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.4 [EL4][1]	Separate lighting control devices for specific uses installed per approved lighting plans.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.4 [EL8][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.5 [EL25][NR]	Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.3 [EL6][1]	Exit signs do not exceed 5 watts per face.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI17][1]	**Furnished O&M instructions for systems and equipment to the building owner or designated representative.**	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Requirement will be met.**
C405.4.1 [FI18][1]	**Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.**	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	***See the Interior Lighting fixture schedule for values.***
C405.5.1 [FI19][1]	**Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.**	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	***See the Exterior Lighting fixture schedule for values.***
C408.2.5.1 [FI16][1]	**Furnished as-built drawings for electric power systems within 90 days of system acceptance.**	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Requirement will be met.**
C408.3 [FI18][1]	**Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.**	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Requirement will be met.**

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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90% REVIEW SET

NO DATE REMARKS
REVISIONS

PHASE III–
FOOD LION
INTERIOR BUILD OUT

TIMBER DEVELOPMENT CORPORATION
8113 BALL GROUND HWY
BALL GROUND, GA 30107

PROJECT NO: 2026.0771
DATE: 11/13/26

E8.00
ENERGY CALCULATIONS

CHECKED: SN DRAWN: NA

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