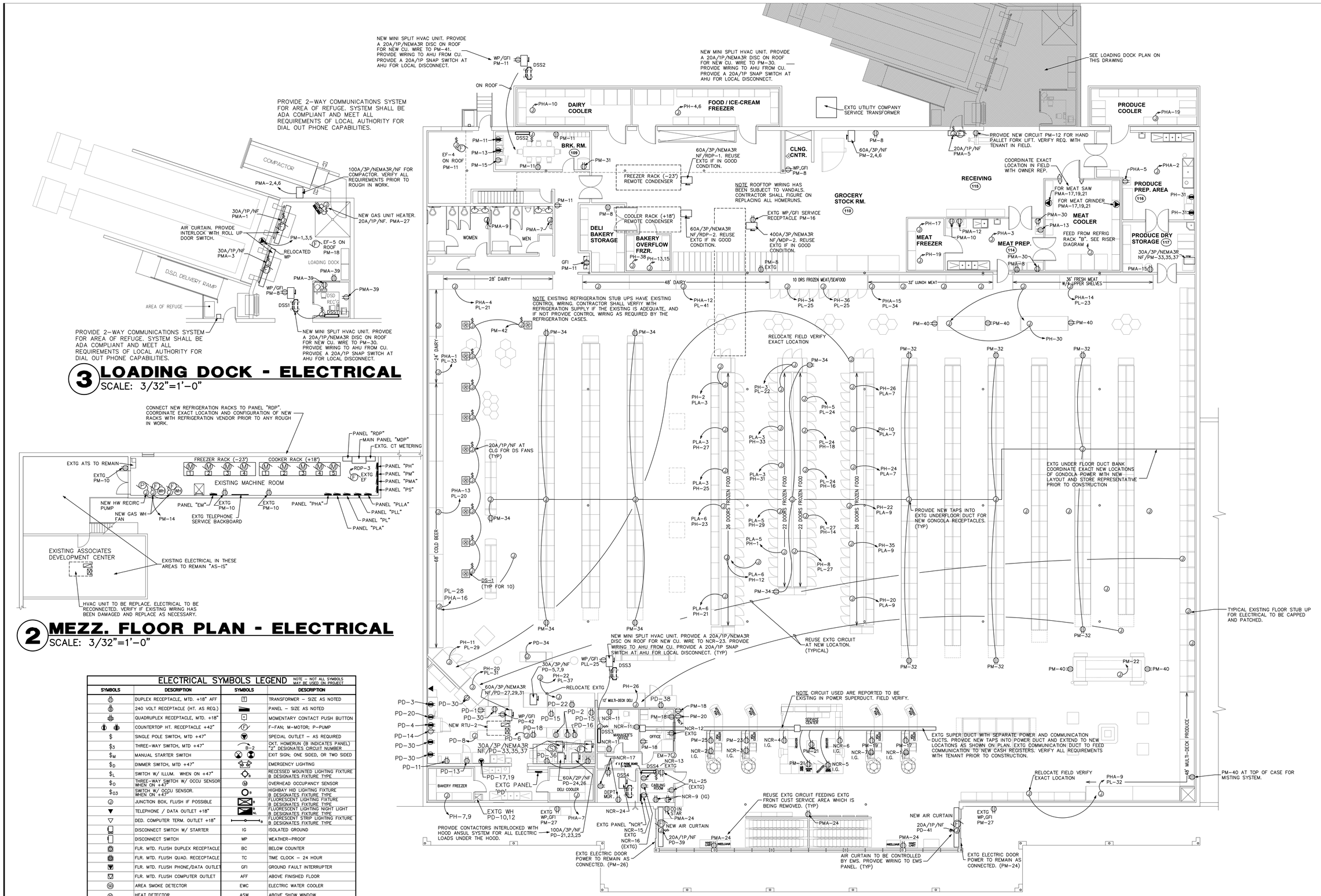
CALCULATION SUMMARY										
AREA NAME	DIMENSIONS	GRID / TYPE	# PTS	SPAC	GROUP	AVE	MAX	MIN	MAX/MIN	AVE/MIN
Front Parking	624.60x439.50Ft	New Grid / N-H	495	15.00	<+>	6.01	47.55	0.39	122.46	15.49
			375	15.00	<*>	1.72	10.94	0.02	453.61	71.52

1 SITE PHOTOMETRIC STUDY - JUST SAVE PARKING LOT

SCALE: 1"=40''-0"

0 10' 20' 30' 40' 50' 60' 70' 80'



3 LOADING DOCK - ELECTRICAL
SCALE: 3/32"=1'-0"

2 MEZZ. FLOOR PLAN - ELECTRICAL
SCALE: 3/32"=1'-0"

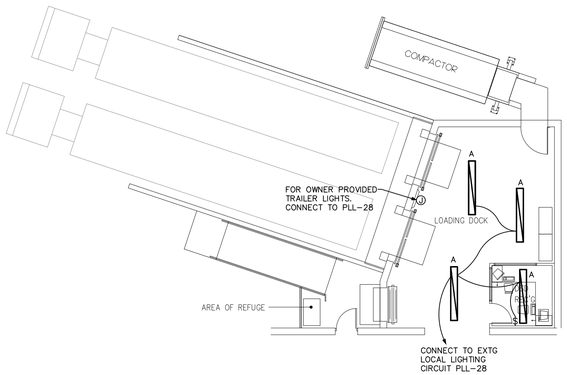
ELECTRICAL SYMBOLS LEGEND
NOTE – NOT ALL SYMBOLS MAY BE USED ON PROJECT

SYMBOLS	DESCRIPTION	SYMBOLS	DESCRIPTION
	DUPLEX RECEPTACLE, MTD. +18" AFF	T	TRANSFORMER – SIZE AS NOTED
	240 VOLT RECEPTACLE (HT. AS REQ.)		PANEL – SIZE AS NOTED
	QUADRUPLEX RECEPTACLE, MTD. +18"		MOMENTARY CONTACT PUSH BUTTON
	COUNTERTOP HT. RECEPTACLE +42"	F/P	F-FAN; M-MOTOR; P-PUMP
$	SINGLE POLE SWITCH, MTD +47"		SPECIAL OUTLET – AS REQUIRED
$3	THREE-WAY SWITCH, MTD +47"	B-2	CKT. HOMERUN (B INDICATES PANEL) "2" DESIGNATES CIRCUIT NUMBER
$M	MANUAL STARTER SWITCH		EXIT SIGN; ONE SIDED, OR TWO SIDED
$D	DIMMER SWITCH, MTD +47"		EMERGENCY LIGHTING
$L	SWITCH W/ ILLUM. WHEN ON +47"	B	RECESSED MOUNTED LIGHTING FIXTURE B DESIGNATES FIXTURE TYPE
$O	THREE-WAY SWITCH W/ OCCU SENSOR WHEN ON +47"	OS	OVERHEAD OCCUPANCY SENSOR
$O3	SWITCH W/ OCCU SENSOR. WHEN ON +47"	B	HIGHBAY HID LIGHTING FIXTURE B DESIGNATES FIXTURE TYPE
J	JUNCTION BOX, FLUSH IF POSSIBLE	B	FLUORESCENT LIGHTING FIXTURE B DESIGNATES FIXTURE TYPE
	TELEPHONE / DATA OUTLET +18"	B NL	FLUORESCENT LIGHTING NIGHT LIGHT B DESIGNATES FIXTURE TYPE
	DED. COMPUTER TERM. OUTLET +18"	B	FLUORESCENT STRIP LIGHTING FIXTURE B DESIGNATES FIXTURE TYPE
	DISCONNECT SWITCH W/ STARTER	IG	ISOLATED GROUND
	DISCONNECT SWITCH	WP	WEATHER-PROOF
	FLR. MTD. FLUSH DUPLEX RECEPTACLE	BC	BELOW COUNTER
	FLR. MTD. FLUSH QUAD. RECEPTACLE	TC	TIME CLOCK – 24 HOUR
	FLR. MTD. FLUSH PHONE/DATA OUTLET	GFI	GROUND FAULT INTERRUPTER
	FLR. MTD. FLUSH COMPUTER OUTLET	AFF	ABOVE FINISHED FLOOR
SD	AREA SMOKE DETECTOR	EWC	ELECTRIC WATER COOLER
H	HEAT DETECTOR	ASW	ABOVE SHOW WINDOW
D	DUCT SMOKE DETECTOR	BSW	BELOW SHOW WINDOW
F	FIRE ALARM MAN. PULL STATION +47"	FACP	FIRE ALARM CONTROL PANEL
30	HORN WITH STROBE LIGHT, MTD. +80" # BESIDE DEVICE IS CANDELLA RATING	FAAP	FIRE ALARM ANNUNCIATOR PANEL
L30	STROBE LIGHT ONLY, MTD. +80" # BESIDE DEVICE IS CANDELLA RATING		

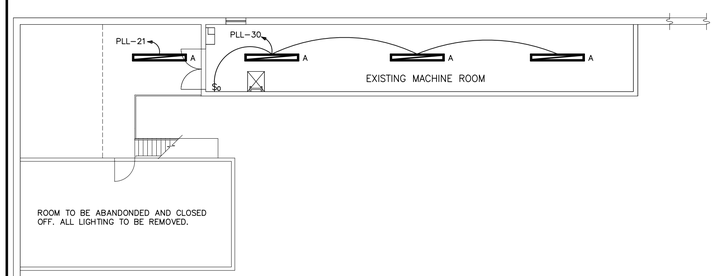
NOTE THIS IS AN REHAB OF AN EXISTING BUILDING WHICH HAS AN EXISTING SERVICE AND DISTRIBUTION EQUIPMENT. ALTERATIONS TO EXISTING BUILDING BEING OF SUCH NATURE THAT ALL FACETS OF THE WORK ARE IMPOSSIBLE TO DETAIL AND SPECIFY. IT IS THEREFORE SPECIFICALLY THE RESPONSIBILITY OF THE CONTRACTOR TO CAREFULLY EXAMINE THE EXISTING BUILDING AND FAMILIARIZE HIMSELF WITH THE CONDITIONS AND RELATE THESE CONDITIONS TO THE SCOPE OF THE PROPOSED NEW WORK. ALL BIDS ARE EXPECTED TO ENCOMPASS THE TOTAL WORK SCOPE NEEDED TO PLACE THE COMPLETED ELECTRICAL SYSTEMS IN WORKING CONDITION TO THE EXTENT OF THE PLANS.

1 FLOOR PLAN - ELECTRICAL
SCALE: 3/32"=1'-0"

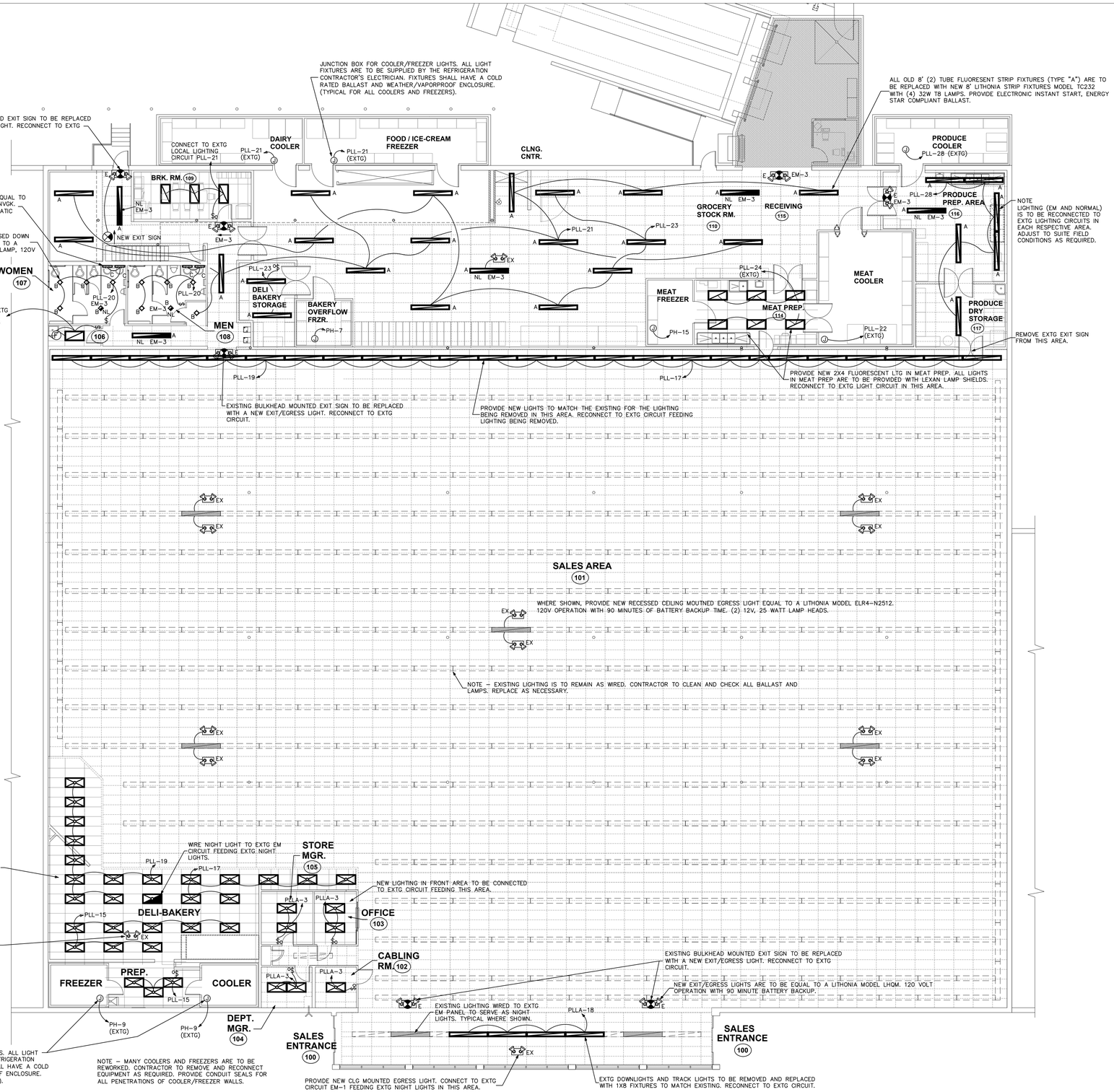
NOTE – SEE REFRIGERATION SCHEDULES ON SHEET P-5 FOR ADDITIONAL INFORMATION ON THE ELECTRICAL REQUIREMENTS OF THE REFRIGERATION EQUIPMENT.



3 LOADING DOCK - LIGHTING
SCALE: 3/32"=1'-0"



2 MEZZ. FLOOR PLAN - LIGHTING
SCALE: 3/32"=1'-0"



1 FLOOR PLAN - LIGHTING
SCALE: 3/32"=1'-0"

PANEL SCHEDULE PD

400 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, 350A. M.C.B., 10000 AMPS MINIMUM A.I.C. BRACING, FLUSH MOUNTED, TYPE NEMA 1 ENCLOSURE

##	BKR.	WIRE AND CONDUIT COND.	NEUTRAL	GND	C.	KEYS	LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LINE C	LOAD DESCRIPTION	WIRE AND CONDUIT KEYS	C.	GND	NEUTRAL	COND.	BKR.	##
1	20/1	#12	#12	#12	1/2	CHAL	BREAD SLICER *	1123	1123	------	------								
								1560	1560	------	------	SLICER/WRAPPER *	CHAL	1/2	#12	#12	#12	20/1	2
3	20/1	#12	#12	#12	1/2	CHAL	COPY CONFECTION *	900	------	900	------								
								1200	------	1200	------	MINI OVEN *	CHAL	1/2	#12	#12	#12	20/1	4
5								0	------	------	1020								
7	20/3	#12	---	#12	1/2	CHAL	HOT CASE	1800	------	------	1800	COFFEE MAKER *	CHAL	1/2	#12	#12	#12	20/1	6
								0	1020	------	------								
9								1123	1123	------	------	MIXER *	CHAL	1/2	#12	#12	#12	20/1	8
								0	------	1020	------								
								0	------	0	------	SPACE							10
11	20/1	#12	#12	#12	1/2	CHAL	FOOD PROCESSOR *	420	------	------	420								
								0	------	------	0	SPACE							12
13	20/1	#12	#12	#12	1/2	CHAL	HOLDING CABINET *	1200	1200	------	------								
								1200	1200	------	------	PROOFER *	CHAL	1/2	#12	#12	#12	20/1	14
15	20/1	#12	#12	#12	1/2	CHAL	SLICERS *	1584	------	1584	------								
								1440	------	1440	------	REFRIGERATED TABLE *	CHAL	1/2	#12	#12	#12	20/1	16
17								0	------	------	915								
	20/2	#12	---	#12	1/2	CHAL	QUICK CHILLER	1560	------	------	1560	TEA BREWER*	CHAL	1/2	#12	#12	#12	20/1	18
19								0	915	------	------								
								900	900	------	------	MICRDWAVE *	CHAL	1/2	#12	#12	#12	20/1	20
21								0	------	7128	------								
								1440	------	1440	------	SCALE *	CHAL	1/2	#12	#12	#12	20/1	22
23	80/3	#4	---	#8	1	CHAL	OVEN	0	------	------	7128								
								0	------	------	4451								24
25								0	7128	------	------	ROTISSIERIE	CHAL	3/4	#10	---	#6	60/2	
								0	4451	------	------								26
27								0	------	4919	------								
29	60/3	#6	---	#10	3/4	CHAL	NEW RTU-2	360	------	360	------	HOOD LIGHTS AND CONTROLS	CHAL	1/2	#12	#12	#12	20/1	28
								0	------	------	4919								
31								540	------	------	540	DELI RECEPTACLES *	CHAL	1/2	#12	#12	#12	20/1	30
								0	4919	------	------								
								0	0	------	------	SPACE							32
33								0	------	1584	------								
35	20/3	#12	---	#12	1/2	CHAL	EXHAUST HOOD	1123	------	1123	------	CHICKEN MERCH *	CHAL	1/2	#12	#12	#12	20/1	34
								0	------	------	1584								
37								960	------	------	960	FRYER *	CHAL	1/2	#12	#12	#12	20/1	36
								0	1584	------	------								
39	20/1	#12	#12	#12	1/2	CHAL	NEW AIR CURTAIN #1	1000	1000	------	------	ICE MERCHANDISER	CHAL	1/2	#12	#12	#12	20/1	38
								1123	------	1123	------								
41	20/1	#12	#12	#12	1/2	CHAL	NEW AIR CURTAIN #2	0	------	0	------	SPACE							40
								1123	------	------	1123								
								180	------	------	180	ROOF RECEPTACLE	CHAL	1/2	#12	#12	#12	20/1	42

WIRE/CONDUIT KEY 1234	WIRING TYPE	INSULATION	CONDUIT TYPE	TEMP RATING	28123	23821	26600	PEAK PHASE (B) UNBALANCED NEUTRAL LOAD AMPS = 76.4 AMPS
1=TEMP RATING, 2=CONDUIT TYPE, 3=INSULATION, 4=WIRING TYPE	C-CU WIRE	H-THWN	A-EMT	L-78-86 Deg. F.	78,544			NON DIVERSIFIED LOAD AT 208 VOLT, THREE PHASE = 218.2 AMPS

PRINTED ON PANELS PROGRAM SERIAL NUMBER 2001.4001
REGISTERED TO - TODD W. CAREY AND ASSOCIATES OF THE CARDINAS

PANEL NOTES:
* - PROVIDE GFI BREAKER

PANEL PD DIVERSIFICATION CALCULATIONS

RECEPTACLES (4) - 720 VA TOTAL FIRST 10 KVA AT 100%	-	720
LIGHTING - 360 X 125%	-	450
HVAC LOAD AT 100%	-	14756
MOTOR LOADS AT 100%	-	1123
PLUS 25% OF THE LARGEST MOTOR	-	414
MISC NON-CONTINUOUS LOADS AT 100%	-	10681
KITCHEN EQUIPMENT (17) 50903 X 0.65	-	33087
TOTAL DIVERSIFIED PANEL LOAD	-	61231
LOAD AT 120/208V/3-PHASE/4-WIRE	-	170.1A

ELECTRICAL NOTES:

1. GENERAL: ALL WORK SHALL CONFORM TO THE LATEST APPROVED EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL JURISDICTIONAL CODES.

   THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DRAWINGS AND ANY APPLICABLE SPECIFICATIONS. IF A PROBLEM IS ENCOUNTERED IN COMPLYING WITH THIS REQUIREMENT, THE CONTRACTOR SHALL NOTIFY THE OWNER OR HIS REPRESENTATIVE AS SOON AS POSSIBLE AFTER DISCOVERY OF THE PROBLEM, AND SHALL NOT PROCEED WITH THAT PORTION OF THE WORK UNTIL THE OWNER HAS DIRECTED THE CORRECTIVE ACTION TO BE TAKEN.

   THE CONTRACTOR SHALL COORDINATE THE PROPOSED LOCATIONS OF ALL ELECTRICAL MATERIALS AND EQUIPMENT WITH THE REPRESENTATIVES OF THE OTHER TRADES INVOLVED BEFORE STARTING INSTALLATION OF THOSE ITEMS.

   COORDINATE THE INSTALLATION OF REQUIRED SUPPORTING DEVICES, CONDUIT, AND SLEEVES TO BE SET IN CAST-IN-PLACE CONCRETE AND OTHER STRUCTURAL COMPONENTS, AS THEY ARE CONSTRUCTED.

   UNLESS OTHERWISE SPECIFIED ON THE PLANS, ALL SPECS ARE NOT INTENDED TO BE PROPRIETARY, SUBSTITUTIONS WILL BE ACCEPTABLE FOR EQUAL RATED AND LISTED UNITS.

2. SCOPE: EXCEPT WHERE OTHERWISE SPECIFICALLY INDICATED ON THE DRAWINGS BY "FUTURE", "BY OTHERS", OR BY A SIMILAR NOTATION, IT IS THE INTENT THAT THE CONTRACTOR FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND TOOLS NECESSARY TO PROVIDE ALL SYSTEMS IN COMPLETE AND OPERATING CONDITION.

3. EXCAVATE AS NECESSARY FOR THE INSTALLATION OF ELECTRICAL MATERIALS AND EQUIPMENT. VERIFY THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES OR STRUCTURES BEFORE EXCAVATING AND EXERCISE CARE TO AVOID DAMAGE TO SUCH ITEMS DURING EXCAVATION. BACKFILL WITH EARTH FREE OF LARGE CLODS, LARGE STONES AND FOREIGN DEBRIS, DEPOSITED IN 6" LAYERS AND COMPACTED TO A DENSITY OF NOT LESS THAN THAT OF THE SURROUNDING UNDISTURBED MATERIAL.

4. MATERIALS: THE MATERIALS AND EQUIPMENT FURNISHED SHALL BE AS INDICATED ON THE DRAWINGS; SUBSTITUTIONS SHALL NOT BE MADE EXCEPT WHERE EXPRESSLY APPROVED BY THE OWNER OR HIS REPRESENTATIVE PRIOR TO STARTING INSTALLATION OF THE ITEMS. THE ELECTRICAL MATERIALS AND EQUIPMENT FURNISHED SHALL BE LISTED OR LABELED BY UNDERWRITERS LABORATORIES OR OTHER RECOGNIZED TESTING ORGANIZATION, AND SHALL BE ACCEPTABLE TO THE LOCAL BUILDING AUTHORITY.

5. GROUNDING: GROUNDING SHALL BE IN ACCORDANCE WITH ARTICLE 250, NEC.

6. SHARED NEUTRAL CONDUCTORS SHALL NOT BE ALLOWED UNLESS INSTALLED IN ACCORDANCE WITH NEC-210.4

7. CONDUITS: PROVIDE CONDUITS WHERE CALLED FOR ON PANEL SCHEDULES: ELECTRICAL METALLIC TUBING (EMT) SHALL BE INSTALLED ONLY IN DRY LOCATIONS, IN CONCRETE ABOVE GRADE, AND WHERE NOT SUBJECT TO PHYSICAL DAMAGE.

   CONDUITS INSTALLED UNDERGROUND SHALL BE POLYVINYLCHLORIDE (PVC) AND SHALL NOT BE SMALLER THAN 3/4" TRADE SIZE. WHERE PVC CONDUIT IS INSTALLED UNDERGROUND, ELBOWS TURNING UP AND CONDUIT EMERGING ABOVE GRADE SHALL BE RSC. THE TOPS OF CONDUITS SHALL NOT BE LESS THAN 24" BELOW FINISHED GRADE. PVC CONDUIT INSTALLED ABOVE GRADE OR DIRECT-BURIED IN EARTH SHALL BE NEMA TC2 TYPE EPC-40-PVC (SCHEDULE 40) EXCEPT THAT WHERE UNDER AREAS SUBJECT TO HEAVY VEHICULAR TRAFFIC, IT SHALL BE NEMA TC2 TYPE EPC-80-PVC (SCHEDULE 80).

   ALL ARMOR CLAD CABLE (AC CABLE) WIRING SHALL MEET OR EXCEED ALL NEC, OSHA AND HUD STANDARDS.

8. CONDUCTORS: CONDUCTORS SHALL BE AS SCHEDULED ON PANEL SCHEDULES. ALL POWER CONDUCTORS SHALL NOT BE SMALLER THAN #14 AWG (CU), OR #12 AWG (AL), CONTROL CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN #18 AWG CU. CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET WITHOUT SPLICES EXCEPT WITHIN WIREWAY OR JUNCTION BOXES. MARK CONDUCTORS IN PANELS, PULL BOXES OR WIREWAYS AND TERMINAL STRIP TERMINALS FOR IDENTIFICATION OF CIRCUITS.

   CONDUCTORS SHALL BE JOINED USING COMPRESSION SPLICES, EXCEPT THAT CONDUCTORS #10 AND SMALLER MAY BE JOINED USING WIRE NUT TYPE CONNECTORS. CONDUCTORS SHALL BE TERMINATED USING COMPRESSION OR PRESSURE TYPE TERMINAL LUGS, OR IN PRESSURE TERMINALS. COMPRESSION SPLICES USED ON CONDUCTORS #10 AWG. AND SMALLER, SHALL BE THE SELF-INSULATED TYPE; OTHER SPLICES SHALL BE INSULATED USING 3M #33+ OR #88 PLASTIC TAPE. SPLICES IN WET LOCATIONS SHALL BE INSULATED WITH ELECTRICAL TAPE AND ENCAPSULATED WITH SCOTCHCAST OR EQUAL POTTING COMPOUND.

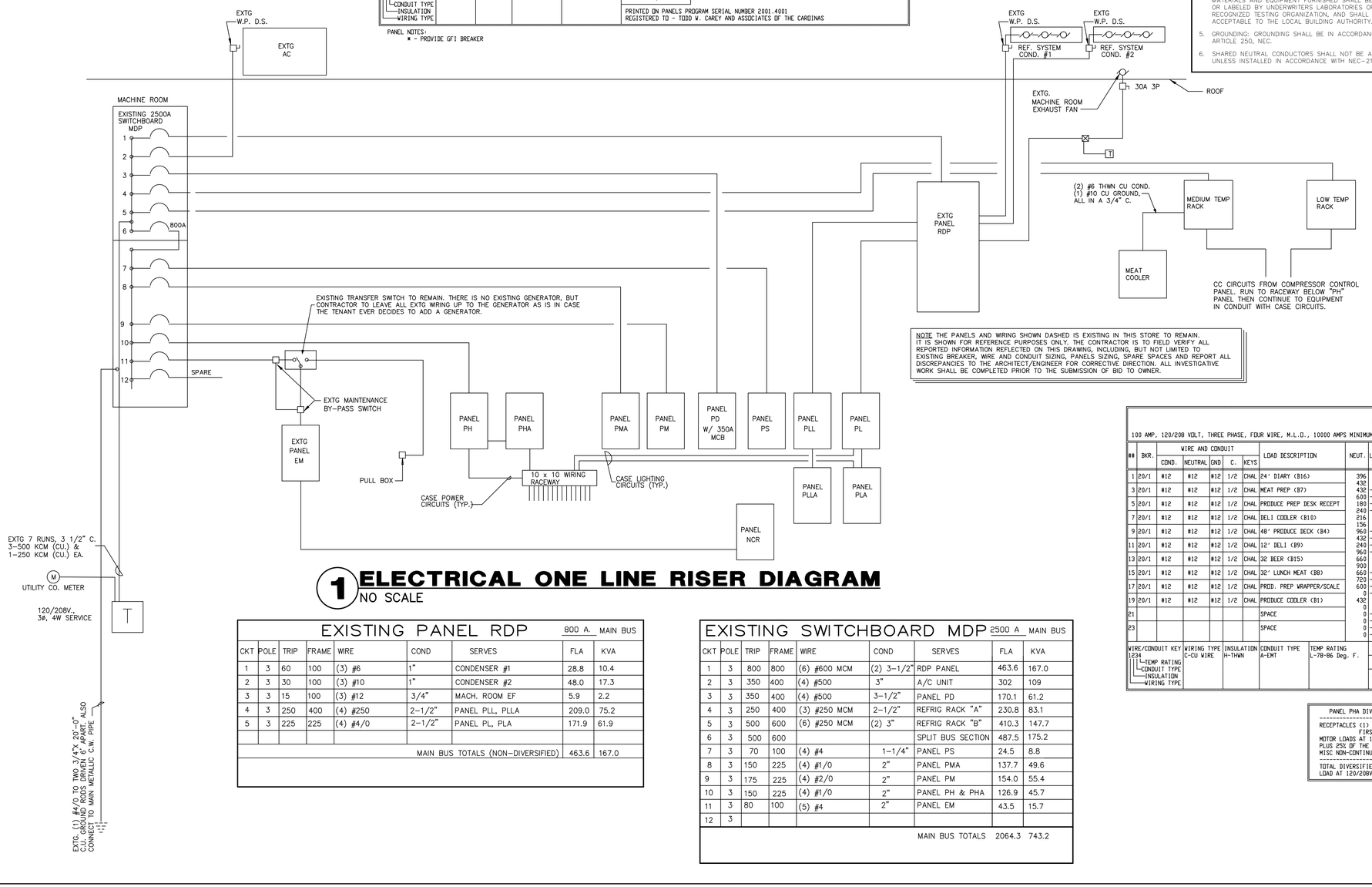
9. PROVIDE AND INSTALL JUNCTION AND PULL BOXES WHERE INDICATED AND WHERE NECESSARY TO TERMINATE, TAP OFF, OR REDIRECT MULTIPLE CONDUIT RUNS, OF SIZE INDICATED OR AS REQUIRED BY NEC. WHERE FEEDER SPLICES ARE TO BE MADE, INSTALL BOXES LARGE ENOUGH TO PROVIDE AMPLE WORK SPACE.

10. LIGHTING FIXTURES: LIGHTING FIXTURES SHALL BE AS INDICATED ON THE DRAWINGS, AND SHALL BE INSTALLED COMPLETE WITH LAMPS.

    FIXTURES WITH ADJUSTMENTS AFFECTING LIGHT DISTRIBUTION SHALL BE SET TO PROVIDE THE REQUIRED LIGHT PATTERNS PRIOR TO THE FINAL DEMONSTRATION TEST.

11. TESTS: AFTER EACH SYSTEM HAS BEEN COMPLETED, A FUNCTIONAL TEST SHALL BE PERFORMED TO DEMONSTRATE THAT THE SYSTEM OPERATES IN ACCORDANCE WITH THE REQUIREMENTS OF THE DRAWINGS. THE TEST SHALL BE PERFORMED BY THE CONTRACTOR IN THE PRESENCE OF THE OWNER OR HIS REPRESENTATIVE.

12. TERMINALS: ALL ELECTRICAL EQUIPMENT FURNISHED ON THIS PROJECT IS TO HAVE TERMINALS RATED FOR 75° C. OPERATION.



NOTE THE PANELS AND WIRING SHOWN DASHED IS EXISTING IN THIS STORE TO REMAIN. IT IS SHOWN FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR IS TO FIELD VERIFY ALL REPORTED INFORMATION REFLECTED ON THIS DRAWING, INCLUDING, BUT NOT LIMITED TO EXISTING BREAKER, WIRE AND CONDUIT SIZING, PANELS SIZING, SPARE SPACES AND REPORT ALL DISCREPANCIES TO THE ARCHITECT/ENGINEER FOR CORRECTIVE DIRECTION. ALL INVESTIGATIVE WORK SHALL BE COMPLETED PRIOR TO THE SUBMISSION OF BID TO OWNER.

1 ELECTRICAL ONE LINE RISER DIAGRAM
NO SCALE

PANEL SCHEDULE PHA

100 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.O., 10000 AMPS MINIMUM A.I.C. BRACING, SURFACE MOUNTED, TYPE NEMA 1 ENCLOSURE

##	BKR.	WIRE AND CONDUIT COND.	NEUTRAL	GND	C.	KEYS	LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LINE C	LOAD DESCRIPTION	WIRE AND CONDUIT KEYS	C.	GND	NEUTRAL	COND.	BKR.	##
1	20/1	#12	#12	#12	1/2	CHAL	24' DIARY (B16)	396	396	------	------								
								432	432	------	------	PRODUCE PREP (B2)	CHAL	1/2	#12	#12	#12	20/1	2
3	20/1	#12	#12	#12	1/2	CHAL	MEAT PREP (B7)	432	------	432	------								
								600	------	600	------	28 MD DIARY (B17)	CHAL	1/2	#12	#12	#12	20/1	4
5	20/1	#12	#12	#12	1/2	CHAL	PRODUCE PREP DESK RECEPT	180	------	------	180								
								240	------	------	240	6' CAKE (B12)	CHAL	1/2	#12	#12	#12	20/1	6
7	20/1	#12	#12	#12	1/2	CHAL	DELI COOLER (B10)	216	216	------	------								
								156	156	------	------	12' SER DELI MEATS (B11)	CHAL	1/2	#12	#12	#12	20/1	8
9	20/1	#12	#12	#12	1/2	CHAL	48' PRODUCE DECK (B4)	960	------	960	------								
								432	------	432	------	DIARY COOLER (B18)	CHAL	1/2	#12	#12	#12	20/1	10
11	20/1	#12	#12	#12	1/2	CHAL	12' DELI (B9)	240	------	------	240								
								960	------	------	960	48 MD DIARY (B13)	CHAL	1/2	#12	#12	#12	20/1	12
13	20/1	#12	#12	#12	1/2	CHAL	32 BEER (B15)	660	660	------	------								
								900	900	------	------	36' FRESH MEAT (B5)	CHAL	1/2	#12	#12	#12	20/1	14
15	20/1	#12	#12	#12	1/2	CHAL	32' LUNCH MEAT (B8)	660	------	660	------								
								720	------	720	------	36 BEER (B14)	CHAL	1/2	#12	#12	#12	20/1	16
17	20/1	#12	#12	#12	1/2	CHAL	PROD. PREP WRAPPER/SCALE	600	------	------	600								
								0	------	------	0	SPACE							18
19	20/1	#12	#12	#12	1/2	CHAL	PRODUCE COOLER (B1)	432	432	------	------								
								0	0	------	------	SPACE							20
21							SPACE	0	------	0	------								
								0	------	0	------	SPACE							22
23							SPACE	0	------	------	0								
								0	------	------	0	SPACE							24

WIRE/CONDUIT KEY 1234	WIRING TYPE	INSULATION	CONDUIT TYPE	TEMP RATING	3192	3804	2220	PEAK PHASE (B) UNBALANCED NEUTRAL LOAD AMPS = 31.7 AMPS
1=TEMP RATING, 2=CONDUIT TYPE, 3=INSULATION, 4=WIRING TYPE	C-CU WIRE	H-THWN	A-EMT	L-78-86 Deg. F.	9,216			NON DIVERSIFIED LOAD AT 208 VOLT, THREE PHASE = 25.6 AMPS

PRINTED ON PANELS PROGRAM SERIAL NUMBER 2001.4001
REGISTERED TO - TODD W. CAREY AND ASSOCIATES OF THE CARDINAS

PANEL PHA DIVERSIFICATION CALCULATIONS

RECEPTACLES (1) - 180 VA TOTAL FIRST 10 KVA AT 100%	-	180
MOTOR LOADS AT 100%	-	8436
PLUS 25% OF THE LARGEST MOTOR	-	240
MISC NON-CONTINUOUS LOADS AT 100%	-	600
TOTAL DIVERSIFIED PANEL LOAD	-	9456
LOAD AT 120/208V/3-PHASE/4-WIRE	-	26.3A

EXISTING PANEL RDP 800 A. MAIN BUS

CKT	POLE	TRIP	FRAME	WIRE	COND	SERVES	FLA	KVA
1	3	60	100	(3) #6	1"	CONDENSER #1	28.8	10.4
2	3	30	100	(3) #10	1"	CONDENSER #2	48.0	17.3
3	3	15	100	(3) #12	3/4"	MACH. ROOM EF	5.9	2.2
4	3	250	400	(4) #250	2-1/2"	PANEL PLL, PLLA	209.0	75.2
5	3	225	225	(4) #4/0	2-1/2"	PANEL PL, PLA	171.9	61.9
						MAIN BUS TOTALS (NON-DIVERSIFIED)	463.6	167.0

EXISTING SWITCHBOARD MDP 2500 A MAIN BUS

CKT	POLE	TRIP	FRAME	WIRE	COND	SERVES	FLA	KVA
1	3	800	800	(6) #600 MCM	(2) 3-1/2"	RDP PANEL	463.6	167.0
2	3	350	400	(4) #500	3"	A/C UNIT	302	109
3	3	350	400	(4) #500	3-1/2"	PANEL PD	170.1	61.2
4	3	250	400	(3) #250 MCM	2-1/2"	REFRIG RACK "A"	230.8	83.1
5	3	500	600	(6) #250 MCM	(2) 3"	REFRIG RACK "B"	410.3	147.7
6	3	500	600			SPLIT BUS SECTION	487.5	175.2
7	3	70	100	(4) #4	1-1/4"	PANEL PS	24.5	8.8
8	3	150	225	(4) #1/0	2"	PANEL PMA	137.7	49.6
9	3	175	225	(4) #2/0	2"	PANEL PM	154.0	55.4
10	3	150	225	(4) #1/0	2"	PANEL PH & PHA	126.9	45.7
11	3	80	100	(5) #4	2"	PANEL EM	43.5	15.7
12	3							
						MAIN BUS TOTALS	2064.3	743.2

PANEL SCHEDULE PMA

225 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.O., 10000 AMPS MINIMUM A.I.C. BRACING, FLUSH MOUNTED, TYPE NEMA 1 ENCLOSURE

##	BKR.	WIRE AND CONDUIT COND.	NEUTRAL	GND	C.	KEYS	LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LINE C	LOAD DESCRIPTION	WIRE AND CONDUIT KEYS	C.	GND	NEUTRAL	COND.	BKR.	##
1	30/1	#10	#10	#10	1/2	CHAL	REAR AIR CURTAIN	2246	2246	------	------								2
3	30/1	#10	#10	#10	1/2	CHAL	REAR AIR CURTAIN	2246	------	2246	------								4
5	20/1	#12	#12	#12	1/2	CHAL	REAR AIR CURTAIN	0	------	5544	------	NEW COMPACTOR	CHAL	3/4	#8	---	#6	80/3	
7	20/1	#12	#12	#12	1/2	CHAL	REAR AIR CURTAIN	1123	------	------	1123								6
9	20/1	#12	#12	#12	1/2	CHAL	WOMEN RESTROOM HAND DRYER	0	------	------	5544								
11	20/1	---	---	---	---	CHAL	NON USED BREAKER (SPARE)	1500	1500	------	------								
13	20/1	#12	#12	#12	1/2	CHAL	MEAT STORGE DESK RECEP	1200	1200	------	------	MEAT WRAPPER/SCALE	CHAL	1/2	#12	#12	#12	20/1	8
15	20/1	#12	#12	#12	1/2	CHAL	PRODUCE SHOP VAC	1500	------	1500	------								
17	20/3	#12	---	#12	1/2	CHAL	MEAT SAW	1123	------	1123	------	CUBBER	CHAL	1/2	#12	#12	#12	20/1	10
21								0	------	------	0								
23	20/2	#12	---	#12	1/2	CHAL	EXTG ICE MAKER	1440	------	------	1440	SLICER	CHAL	1/2	#12	#12	#12	20/1	12
25								180	180	------	------								
27	20/1	#12	#12	#12	1/2	CHAL	NEW RECEIV. GAS UNIT HTR	540	540	------	------	EXTG RECEPTACLES	CHAL	1/2	#12	#12	#12	20/1	14
29								1200	------	1200	------								
31	30/3	#10	---	#10	1/2	CHAL	MEAT GRINDER	540	------	540	------	EXTG RECEPTACLES	CHAL	1/2	#12	#12	#12	20/1	16
33								0	------	------	1272								
35	20/1	---	---	---	---	CHAL	NON USED BREAKER (SPARE)	540	------	540	------	NEW DSD RECEIVING RECEPT	CHAL	1/2	#12	#12	#12	20/1	18
37	20/1	---	---	---	---	CHAL	NON USED BREAKER (SPARE)	0	------	------	540								
39	20/1	---	---	---	---	CHAL	NON USED BREAKER (SPARE)	100	100	------	------	NON USED BREAKER (SPARE)	CHAL	---	---	---	---	20/1	20
41	20/1	---	---	---	---	CHAL	NON USED BREAKER (SPARE)	0	------	1272	------								
								100	------	100	------	NON USED BREAKER (SPARE)	CHAL	---	---	---	---	20/1	22
								0	------	------	1131								
								540	540	------	------	EXTG RECEPTACLES	CHAL	1/2	#12	#12	#12	20/1	26
								1123	------	1123	------								
								540	------	540	------	EXTG RECEPTACLES	CHAL	1/2	#12	#12	#12	20/1	28
								0	------	------	2040								
								540	------	540	------	MEAT RECEPTACLES	CHAL	1/2	#12	#12	#12	20/1	30
								0	2040	------	------								
								0	0	------	------	NON USED BREAKER (SPARE)	CH-L	---	---	---	---	20/1	32
								0	------	2040	------								
								0	------	0	------	NON USED BREAKER (SPARE)	CHAL	---	---	---	---	20/1	34
								0	------	------	0								
								0	------	------	0	NON USED BREAKER (SPARE)	CHAL	---	---	---	---	20/1	36
								0	0	------	------								
								0	------	0	------	NON USED BREAKER (SPARE)	CHAL	---	---	---	---	20/1	38
								0	------	------	0								
								0	------	0	------	NON USED BREAKER (SPARE)	CHAL	---	---	---	---	20/1	40
								0	------	------	0								
								0	------	0	------	NON USED BREAKER (SPARE)	CHAL	---	---	---	---	20/1	42

WIRE/CONDUIT KEY 1234	WIRING TYPE C-CU WIRE	INSULATION H-THWN	CONDUIT TYPE A-EMT - NO CONDUIT	TEMP RATING L-78-86 Deg. F.	16293	17228	14170
1—TEMP RATING, 2—CONDUIT TYPE, 3—INSULATION, 4—WIRING TYPE					47,691		

PEAK PHASE (B) UNBALANCED NEUTRAL LOAD AMPS = 69.8 AMPS
NON DIVERSIFIED LOAD AT 208 VOLT, THREE PHASE = 132.5 AMPS

PRINTED ON PANELS PROGRAM SERIAL NUMBER 2001.4001
REGISTERED TO - TODD W. CAREY AND ASSOCIATES OF THE CARDINAS

PANEL SCHEDULE PM

200 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.O., 10000 AMPS MINIMUM A.I.C. BRACING, FLUSH MOUNTED, TYPE NEMA 1 ENCLOSURE

##	BKR.	WIRE AND CONDUIT COND.	NEUTRAL	GND	C.	KEYS	LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LINE C	LOAD DESCRIPTION	WIRE AND CONDUIT KEYS	C.	GND	NEUTRAL	COND.	BKR.	##
1								0	1440	------	------								2
3	20/3	#12	#12	#12	1/2	CHAL	RELOCATED TRAILER RECEPT.	0	------	3696	------								
5								0	------	------	1440	NEW BAILER	CHAL	3/4	#10	---	#6	60/3	4
7							SPACE	0	------	------	3696								6
9							SPACE	0	0	------	------								
11	20/1	#12	#12	#12	1/2	CHAL	REAR AREA RECEPTACLES	1080	1080	------	------	BACKROOM RECEPTACLES	CHAL	1/2	#12	#12	#12	20/1	8
13	20/1	#12	#12	#12	1/2	CHAL	NEW MICROWAVE OVEN	1200	------	1200	------	EXTG MEZZ RECEPTACLES	CHAL	1/2	#12	#12	#12	20/1	10
15	20/1	#12	#12	#12	1/2	CHAL	NEW REFRIGERATOR	720	------	------	720	PALLET HAND TRUCK CHARGER	CHAL	1/2	#12	#12	#12	20/1	12
17	20/1	#12	#12	#12	1/2	CHAL	CHECKOUT RECEPTACLES	1080	1080	------	------								
19	20/1	#12	#12	#12	1/2	CHAL	CHECKOUT RECEPTACLES	832	832	------	------	NEW GAS WH / RECIRC PUMP	CHAL	1/2	#12	#12	#12	20/1	14
21	20/1	#12	#12	#12	1/2	CHAL	CHECKOUT RECEPTACLES	700	------	700	------								
23	20/1	#12	#12	#12	1/2	CHAL	CHECKOUT RECEPTACLES	360	------	360	------	AHU MAINTENANCE RECEPT	CHAL	1/2	#12	#12	#12	20/1	16
25	20/1	#12	#12	#12	1/2	CHAL	CHECKOUT RECEPTACLES	800	------	------	800								
27	20/1	#12	#12	#12	1/2	CHAL	FRONT WALL RECEPTACLE	300	------	------	300	LOTTO MACHINE	CHAL	1/2	#12	#12	#12	20/1	18
29	20/1	#12	#12	#12	1/2	CHAL	RECEPTACLES	800	800	------	------								
31	20/1	#12	#12	#12	1/2	CHAL	NEW VENDING MACHINE	500	500	------	------	ATM MACHINE	CHAL	1/2	#12	#12	#12	20/1	20
33								1500	------	1500	------								
35	20/3	#12	---	#12	1/2	CHAL	ICE MACHINE	1500	------	1500	------	FRONT PRODUCE	CHAL	1/2	#12	#12	#12	20/1	22
37								800	------	------	800								
39	20/1	#12	#12	#12	1/2	CHAL	NEW DSD ROOM RECEPTACLE	1500	------	------	1500	EXTG FRONT DOOR	CHAL	1/2	#12	#12	#12	20/1	24
41	20/1	#12	#12	#12	1/2	CHAL	NEW DSS2 MINI SPLIT HVAC	800	800	------	------								
								1500	1500	------	------	EXTG FRONT DOOR	CHAL	1/2	#12	#12	#12	20/1	26
								900	------	900	------								
								540	------	540	------	EXTG PRODUCE PREP RECEP	CHAL	1/2	#12	#12	#12	20/1	28
								540	------	------	540								
								1320	------	------	1320	NEW DSS1 MINI SPLIT HVAC	CHAL	1/2	#12	#12	#12	20/1	30
								1200	1200	------	------								
								1080	1080	------	------	GONDOLA RECEPTACLES	CHAL	1/2	#12	#12	#12	20/1	32
								0	------	732	------								
								1080	------	1080	------	GONDOLA RECEPTACLES	CHAL	1/2	#12	#12	#12	20/1	34
								0	------	732	------								
								1080	------	1080	------	EXTG FOOD PREP RECEPT	CHAL	1/2	#12	#12	#12	20/1	36
								0	732	------	------								
								540	540	------	------	EXTG ASSOC DEV CENTER REC	CHAL	1/2	#12	#12	#12	20/1	38
								180	------	180	------								
								1080	------	1080	------	GONDOLA RECEPTACLES	CHAL	1/2	#12	#12	#12	20/1	40
								1320	------	------	1320								
								1000	------	------	1000	10 DESTRATIFICATION FANS	CHAL	1/2	#12	#12	#12	20/1	42

WIRE/CONDUIT KEY 1234	WIRING TYPE C-CU WIRE	INSULATION H-THWN	CONDUIT TYPE A-EMT	TEMP RATING L-78-86 Deg. F.	15300	14788	16448
1—TEMP RATING, 2—CONDUIT TYPE, 3—INSULATION, 4—WIRING TYPE					46,536		

PEAK PHASE (C) UNBALANCED NEUTRAL LOAD AMPS = 88.2 AMPS
NON DIVERSIFIED LOAD AT 208 VOLT, THREE PHASE = 129.3 AMPS

PRINTED ON PANELS PROGRAM SERIAL NUMBER 2001.4001
REGISTERED TO - TODD W. CAREY AND ASSOCIATES OF THE CARDINAS

PANEL SCHEDULE PH

225 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.O., 10000 AMPS MINIMUM A.I.C. BRACING, SURFACE MOUNTED, TYPE NEMA 1 ENCLOSURE

##	BKR.	WIRE AND CONDUIT COND.	NEUTRAL	GND	C.	KEYS	LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LINE C	LOAD DESCRIPTION	WIRE AND CONDUIT KEYS	C.	GND	NEUTRAL	COND.	BKR.	##
1	20/1	#12	#12	#12	1/2	CHAL	5 DOOR FROZEN FOOD CASE	1386	1386	------	------								
3	20/1	#12	#12	#12	1/2	CHAL	4+2 DOOR FRZ FOOD CASE	1278	1278	------	------	4+2 DOOR FRZ FOOD CASE	CHAL	1/2	#12	#12	#12	20/1	2
5	20/1	#12	#12	#12	1/2	CHAL	4 DOOR FROZEN FOOD CASE	1080	------	1080	------								
7	20/1	#12	#12	#12	1/2	CHAL	BAKERY FREEZER (A13)	1065	------	------	1065	FREEZER (A16)	CHAL	1/2	#12	#12	#12	20/1	4
9	20/1	#12	#12	#12	1/2	CHAL	FREEZER LTS AND HEATER	720	------	------	720	FREEZER LTS AND HEATER	CHAL	1/2	#12	#12	#12	20/1	6
11	20/1	#12	#12	#12	1/2	CHAL	4 DOOR FRZ CAKE (A14)	324	324	------	------								
13	20/1	#12	#12	#12	1/2	CHAL	BAKERY FREEZER (A3)	1386	1386	------	------	5 DOOR FROZEN FOOD CASE	CHAL	1/2	#12	#12	#12	20/1	8
15	20/1	#12	#12	#12	1/2	CHAL	BAKE FRZ LTS AND HEAT	720	------	720	------	FREEZER LTS AND HEATER	CHAL	1/2	#12	#12	#12	20/1	10
17	20/1	#12	#12	#12	1/2	CHAL	MEAT FREEZER (A15)	1065	------	1065	------								
19	20/1	#12	#12	#12	1/2	CHAL	MEAT FRZ LTS AND HEATER	324	------	------	324	5 DOOR FROZEN FOOD CASE	CHAL	1/2	#12	#12	#12	20/1	12
21	20/1	#12	#12	#12	1/2	CHAL	5 DOOR FROZEN FOOD CASE	1065	------	------	1065	4 DOOR FROZEN FOOD CASE	CHAL	1/2	#12	#12	#12	20/1	14
23	20/1	#12	#12	#12	1/2	CHAL	4 DOOR FROZEN FOOD CASE	720	720	------	------								
25	20/1	#12	#12	#12	1/2	CHAL	4 DOOR FROZEN FOOD CASE	1386	1386	------	------	5 DOOR FROZEN FOOD CASE	CHAL	1/2	#12	#12	#12	20/1	16
27	20/1	#12	#12	#12	1/2	CHAL	4 DOOR FROZEN FOOD CASE	1386	------	1386	------								
29	20/1	#12	#12	#12	1/2	CHAL	5 DOOR FROZEN FOOD CASE	1065	------	1065	------	4 DOOR FROZEN FOOD CASE	CHAL	1/2	#12	#12	#12	20/1	18
31	20/1	#12	#12	#12	1/2	CHAL	4 DOOR FROZEN FOOD CASE	1065	------	------	1065	4 DOOR FROZEN FOOD CASE	CHAL	1/2	#12	#12	#12	20/1	20
33	20/1	#12	#12	#12	1/2	CHAL	4 DOOR FROZEN FOOD CASE	1065	1065	------	------								
35	20/1	#12	#12	#12	1/2	CHAL	5 DOOR FROZEN FOOD CASE	1065	1065	------	------	4 DOOR FROZEN FOOD CASE	CHAL	1/2	#12	#12	#12	20/1	22
37								1065	------	1065	------								
39	60/3	#6	#6	#10	1	CHAL	EXTG PANELBOARD PHA	3192	3192	------	------	DRAIN LINE HEATERS	CHAL	1/2	#12	#12	#12	20/1	24
41								444	444	------	------								
								3804	------	3804	------								
								0	------	------	0	SPACE							26
								2220	------	------	2220								
								0	------	------	0	SPACE							28
								1386	------	------	1386								
								384	------	------	384	12' DL TEMP ISLD (A1-A2)	CHAL	1/2	#12	#12	#12	20/1	30
								1065	1065	------	------								
								0	0	------	------	SPACE							32
								1065	------	1065	------								
								1386	------	1386	------	5 DOOR FROZEN FOOD CASE	CHAL	1/2	#12	#12	#12	20/1	34
								1386	------	------	1386								
								1386	------	------	1386	5 DOOR FROZEN FOOD CASE	CHAL	1/2	#12	#12	#12	20/1	36
								3192	3192	------	------								
								444	444	------	------	DRAIN LINE HEATERS	CHAL	1/2	#12	#12	#12	20/1	38
								3804	------	3804	------								
								0	------	0	------	SPACE							40
								2220	------	------	2220								
								0	------	------	0	SPACE							42

WIRE/CONDUIT KEY 1234	WIRING TYPE C-CU WIRE	INSULATION H-THWN	CONDUIT TYPE A-EMT	TEMP RATING L-78-86 Deg. F.	15021	15699	14448
1—TEMP RATING, 2—CONDUIT TYPE, 3—INSULATION, 4—WIRING TYPE					45,168		

PEAK PHASE (B) UNBALANCED NEUTRAL LOAD AMPS = 130.8 AMPS
NON DIVERSIFIED LOAD AT 208 VOLT, THREE PHASE = 125.5 AMPS

PRINTED ON PANELS PROGRAM SERIAL NUMBER 2001.4001
REGISTERED TO - TODD W. CAREY AND ASSOCIATES OF THE CARDINAS

PANEL SCHEDULE PLL

400 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.O., 10000 AMPS MINIMUM A.I.C. BRACING, SURFACE MOUNTED, TYPE NEMA 1 ENCLOSURE

##	BKR.	WIRE AND CONDUIT COND.	NEUTRAL	GND	C.	KEYS	LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LINE C	LOAD DESCRIPTION	WIRE AND CONDUIT KEYS	C.	GND	NEUTRAL	COND.	BKR.	##
1	20/1	#12	#12	#12	1/2	CHAL	VESTIBULE LIGHTS	720	720	------	------								
3	20/1	#12	#12	#12	1/2	CHAL	SALES AREA LIGHTS	1620	1620	------	------	SALES AREA LIGHTS	CHAL	1/2	#12	#12	#12	20/1	2
5	20/1	#12	#12	#12	1/2	CHAL	SALES AREA LIGHTS	1350	------	1350	------								
7	20/1	#12	#12	#12	1/2	CHAL	SALES AREA LIGHTS	1620	------	1620	------	SALES AREA LIGHTS	CHAL	1/2	#12	#12	#12	20/1	4
9	20/1	#12	#12	#12	1/2	CHAL	SALES AREA LIGHTS	1215	------	------	1215								
11	20/1	#12	#12	#12	1/2	CHAL	SALES AREA LIGHTS	1620	------	------	1620	SALES AREA LIGHTS	CHAL	1/2	#12	#12	#12	20/1	6
13	20/1	#12	#12	#12	1/2	CHAL	SALES AREA LIGHTS	1620	1620	------	------								
15	20/1	#12	#12	#12	1/2	CHAL	DELI AREA LIGHTS	1620	1620	------	------	SALES AREA LIGHTS	CHAL	1/2	#12	#12	#12	20/1	8
17	20/1	#12	#12	#12	1/2	CHAL	DELI AREA LIGHTS	1620	------	1620	------								
19	20/1	#12	#12	#12	1/2	CHAL	DELI AREA LIGHTS	1620	------	1620	------	SALES AREA LIGHTS	CHAL	1/2	#12	#12	#12	20/1	10
21	20/1	#12	#12	#12	1/2	CHAL	BACKROOM AREA LIGHTS	1620	------	------	1620								
23	20/1	#12	#12	#12	1/2	CHAL	BACKROOM AREA LIGHTS	1620	------	1620	------	SALES AREA LIGHTS	CHAL	1/2	#12	#12	#12	20/1	12
25	20/1	#12	#12	#12	1/2	CHAL	OFFICE RECEPTACLES	1620	1620	------	------								
27	20/1	---	---	---	---	CHAL	NON USED BREAKER (SPARE)	1620	------	1620	------	SALES AREA LIGHTS	CHAL	1/2	#12	#12	#12	20/1	14
29	20/1	#12	#12	#12	1/2	CHAL	SHELVING CANOPY LIGHTS	1620	------	------	1620								
31	20/1	#12	#12	#12	1/2	CHAL	DELI AREA LIGHTS	1620	------	1620	------	SALES AREA LIGHTS	CHAL	1/2	#12	#12	#12	20/1	16
33	20/1	#12	#12	#12	1/2	CHAL	SALES AREA LIGHTS	1620	------	1620	------								
35	20/1	#12	#12	#12	1/2	CHAL	SALES AREA LIGHTS	1620	------	------	1620	SALES AREA LIGHTS	CHAL	1/2	#12	#12	#12	20/1	18
37	20/1	#12	#12	#12	1/2	CHAL	SALES AREA LIGHTS	1620	1620	------	------								
39	20/1	#12	#12	#12	1/2	CHAL	SALES AREA LIGHTS	2000	2000	------	------	PANELBOARD 'PLLA'	CHAL	1-1/4	#8	#3	#3	90/3	40
41	20/1	#12	#12	#12	1/2	CHAL	SALES AREA LIGHTS	1620	------	1620	------								
								1620	------	2250	------								42

WIRE/CONDUIT KEY 1234	WIRING TYPE C-CU WIRE	INSULATION H-THWN	CONDUIT TYPE A-EMT	TEMP RATING L-78-86 Deg. F.	19360	20305	20730
1—TEMP RATING, 2—CONDUIT TYPE, 3—INSULATION, 4—WIRING TYPE					60,395		

PEAK PHASE (C) UNBALANCED NEUTRAL LOAD AMPS = 172.8 AMPS
NON DIVERSIFIED LOAD AT 208 VOLT, THREE PHASE = 167.8 AMPS

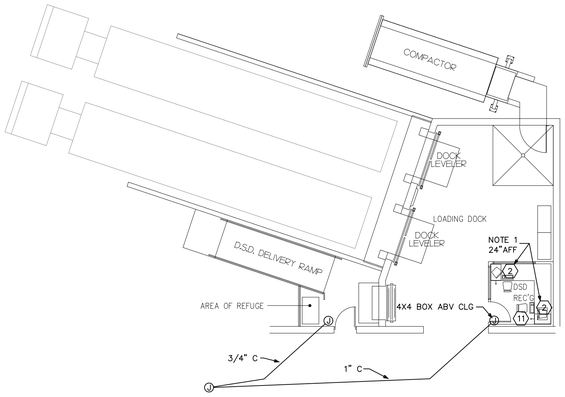
PRINTED ON PANELS PROGRAM SERIAL NUMBER 2001.4001
REGISTERED TO - TODD W. CAREY AND ASSOCIATES OF THE CARDINAS

PANEL SCHEDULE PL

225 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.O., 10000 AMPS MINIMUM A.I.C. BRACING, FLUSH MOUNTED, TYPE NEMA 1 ENCLOSURE

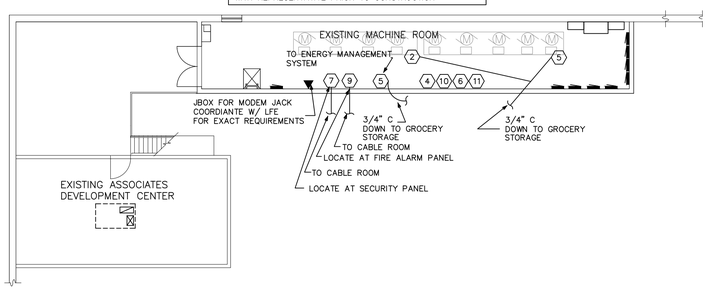
##	BKR.	WIRE AND CONDUIT COND.	NEUTRAL	GND	C.	KEYS	LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LINE C	LOAD DESCRIPTION	WIRE AND CONDUIT KEYS	C.	GND	NEUTRAL	COND.	BKR.	##
1	20/1	#12	#12	#12	1/2	CHAL	SALES LIGHTING	1920	1920	------	------								
3	20/1	#12	#12	#12	1/2	CHAL	SALES LIGHTING	1350	1350	------	------	SALES AREA LIGHTS	CHAL	1/2	#12	#12	#12	20/1	2
5	20/1	#12	#12	#12	1/2	CHAL	SALES LIGHTING	1215	------	1215	------								
7	20/1	#12	#12	#12	1/2	CHAL	SALES LIGHTING	1620	------	------	1620	SALES LIGHTING	CHAL	1/2	#12	#12	#12	20/1	4
9	20/1	#12	#12	#12	1/2	CHAL	SALES LIGHTING	1620	1620	------	------								
11	20/1	#12	#12	#12	1/2	CHAL	SALES LIGHTING	1620	------	1620	------	SALES LIGHTING	CHAL	1/2	#12	#12	#12	20/1	6
13	20/1	#12	#12	#12	1/2	CHAL	SALES LIGHTING	1620	------	1620	------								
15	20/1	#12	#12	#12	1/2	CHAL	SALES LIGHTING	1620	------	------	1620	LIGHTS OVER MEAT AREA	CHAL	1/2	#12	#12	#12	20/1	8
17	20/1	#12	#12	#12	1/2	CHAL	REWORKED SALES LIGHTING	1485	1485	------	------								
19	20/1	#12	#12	#12	1/2	CHAL	REWORKED SALES LIGHTING	1575	1575	------	------	LIGHTS OVER FISH CASES	CHAL	1/2	#12	#12	#12	20/1	10
21	20/1	#12	#12	#12	1/2	CHAL	MEAT CASE LIGHTS (B5)	1485	------	1485	------								
23	20/1	#12	#12	#12	1/2	CHAL	MEAT CASE LIGHTS (B5)	1000	------	1000	------	FLORAL AREA LIGHTS	CHAL	1/2	#12	#12	#12	20/1	12
25	20/1	#12	#12	#12	1/2	CHAL	FRZ MEAT/SEAFOOD (A4)	1485	------	------	1485								
27	20/1	#12	#12	#12	1/2	CHAL	12DR FRZ FOOD (A8)	1500	------	------	1500	HID AT PRODUCE AREA	CHAL	1/2	#12	#12	#12	20/1	14
29	20/1	#12	#12	#12	1/2	CHAL	FRZ CAKE CASE (A14)	1485	1485	------	------								
31	20/1	#12	#12	#12	1/2	CHAL	12 MULTI DELI (B9)	228	228	------	------	32 BEER (B15)	CHAL	1/2	#12	#12	#12	20/1	16
33	20/1	#12	#12	#12	1/2	CHAL	24 DIARY (B16)	204	------	204	------								
35	20/1	---	---	---	---	----	NON USED BREAKER (SPARE)	2328	------	2328	------	10+2 ICE CREAM (A7)	CHAL	1/2	#12	#12	#12	20/1	18
37	20/1	#12	#12	#12	1/2	CHAL	12 DELI MEATS (B11)	750	------	------	750								
39	20/1	---	---	---	---	----	NON USED BREAKER (SPARE)	1920	------	------	1920	10 DR FRZ FOOD (A10)	CHAL	1/2	#12	#12	#12	20/1	20
41	20/1	#12	#12	#12	1/2	CHAL	DIARY CASE (B13)	1872	1872	------	------								
								100	100	------	------	NON USED BREAKER (SPARE)	----	---	---	---	---	20/1	22
								2280	------	2280	------								
								312	------	312	------	36 BEER (B14)	CHAL	1/2	#12	#12	#12	20/1	24
								100	------	------	144								
								84	84	------	------	NON USED BREAKER (SPARE)	----	---	---	---	---	20/1	26
								336	336	------	------								
								168	------	168	------	48 PRODUCE (B4)	CHAL	1/2	#12	#12	#12	20/1	28
								288	------	288	------								
								100	------	------	100	LUNCH MEAT (B8)	CHAL	1/2	#12	#12	#12	20/1	30
								100	------	------	100	NON USED BREAKER (SPARE)	----	---	---	---	---	20/1	32
								276	276	------	------								
								3028	3028	------	------								34
								100	------	100	------	NON USED BREAKER (SPARE)	----	---	---	---	---	20/1	36
								5988	------	5988	------	PANELBOARD 'PLA'	CHAL	3/4	#10	#8	#8	50/3	38
								336	------	------	336								40
								5940	------	------	5940	DIARY CASE (B13)	CHAL	1/2	#12	#12	#12	20/1	42

| WIRE/CONDUIT KEY 1234 | WIRING TYPE C-CU WIRE | INSULATION H-THWN | CONDUIT TYPE A-EMT - NO CONDUIT | TEMP RATING L-78-86 Deg. F. | 16979 | 19823 | 18995 |
|---|---|---



3 LOADING DOCK - COMMUNICATION
SCALE: 3/32"=1'-0"

NOTE:
VERIFY EXACT LOCATION OF ALL LOW VOLTAGE EQUIPMENT WITH REPRESENTATIVE PRIOR TO CONSTRUCTION



2 MEZZ. FLOOR PLAN - COMMUNICATION
SCALE: 3/32"=1'-0"

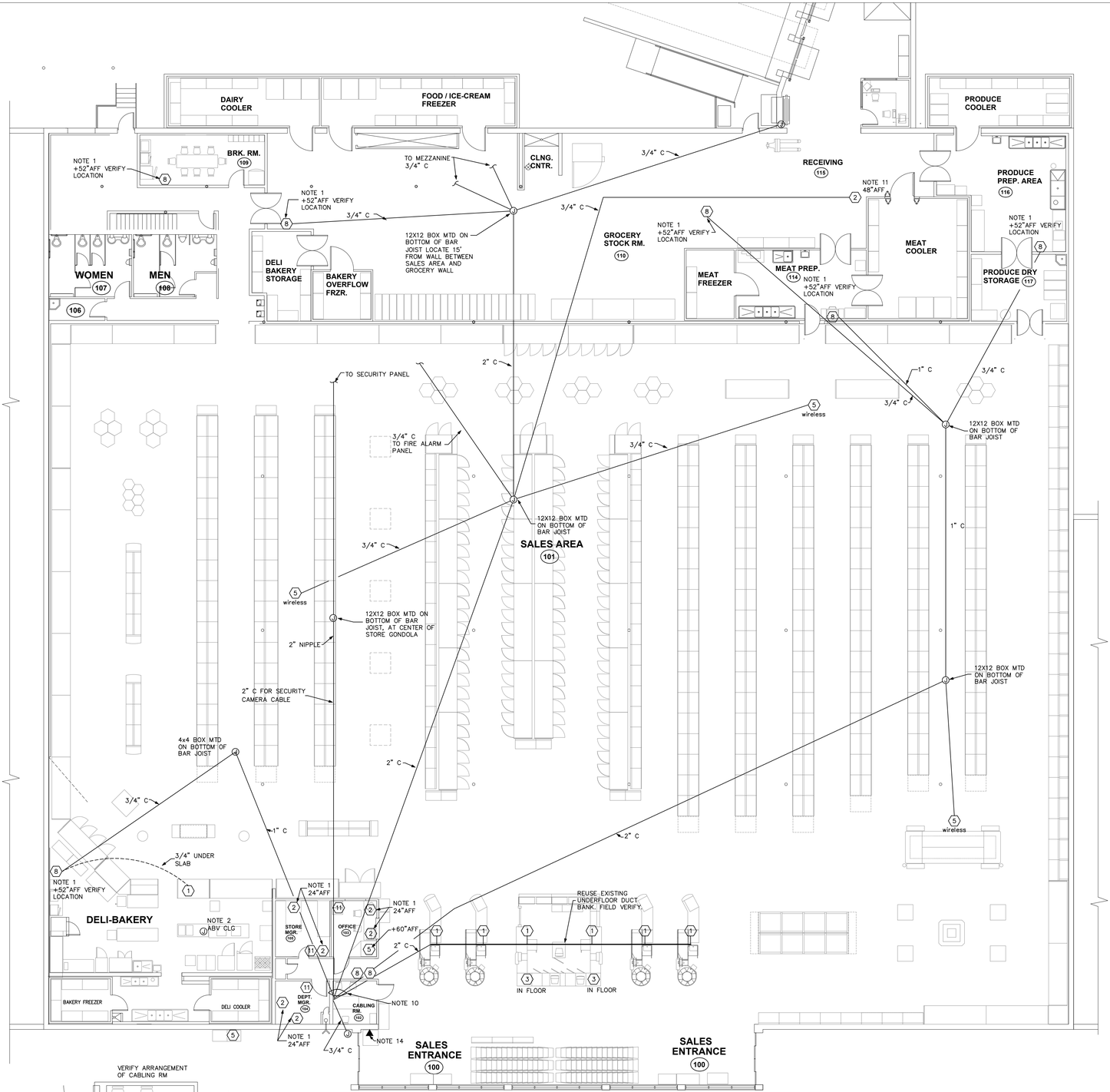
#	LOW VOLTAGE TAGS
1	1-DATA(G), 1-DATA(B), 1-DATA(R), 1-DATA
2	1-DATA(G), 1-DATA(B)
3	6-DATA
4	PAGING CONTROL FROM RACK
5	1-DATA
6	56K STP (CAT 5)
7	1-VOICE W/ RJ-31 (SECURITY)
8	1-VOICE (BEN)(PHONE), 1-DATA
9	2-VOICE W/ RJ-31 (FIRE ALARM)
10	DEMARK (25PR) (OR 50 OR 100)
11	VOLUME CONTROL BOX STUB CONDUIT INTO CEILING

COMMUNICATION NOTES:

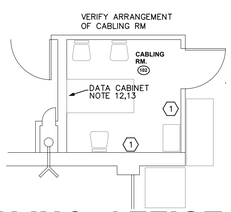
1. TELEPHONE OUTLET, CONDUIT SHALL BE ROUTED BACK TO TELEPHONE BOARD AND PULL STRING INSTALLED FOR TELEPHONE COMPANY
2. JUNCTION BOX STUB 6" ABOVE CEILING
3. 12X12 JUNCTION BOX FOR COMMUNICATION CABLES, LOOPS BOXES IN SERVICE CENTER, MEAT DEPARTMENT, PRODUCE DEPARTMENT, DELI/BAKERY AND DSD ROOM. STUB TWO ADDITIONAL 1" CONDUITS ABOVE CEILING FOR FUTURE USE.
4. PROVIDE BOX FOR SENSOR MOUNTING (COORDINATE W/ LOWE'S FOOD REP FOR SUREFACE/RECESSED MOUNTING)
5. NOT USED
6. NOT USED
7. NOT USED
8. NOT USED
9. NOT USED
10. PROVIDE TWO 2" CONDUITS FROM CABLING ROOM TO 6X6 GUTTER
11. RECESSED 24X24 BOX 48" AFF TO CEBTER WITH TWO (2) DATA (CAT5)
12. ALL OVERHEAD CONDUITS SHALL TURN DOWN TO 6" BELOW CEILING ABOVE DATA CABINET IN CABLING ROOM
13. ALL UNDER SLAB CONDUITS SHALL STUB UP ABOVE WALL IN CABLING ROOM BEHIND DATA CABINET INSIDE WALL
14. TELEPHONE OUTLET FOR "COINSTAR" SHALL BE ROUTER BACK TO TELEPHONE BOARD AND PULLSTRING INSTALLED FOR TELEPHONE COMPANY

"GENERAL COMMUNICATION NOTES"

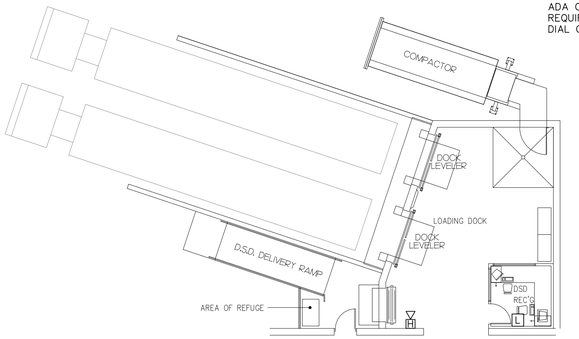
1. PROVIDE ONE 1" CONDUIT FROM DSD ROOM TO CABLING ROOM.
2. PROVIDE ONE 1" CONDUIT FROM CASH OFFICE/ SERVICE CENTER TO CABLE ROOM.
3. PROVIDE ONE 1" CONDUIT FROM DELI COUNTER FOR REGISTER TO CABLE ROOM.
4. PROVIDE ONE 1" CONDUIT FROM DSD ROOM TO MECHANICAL ROOMS.



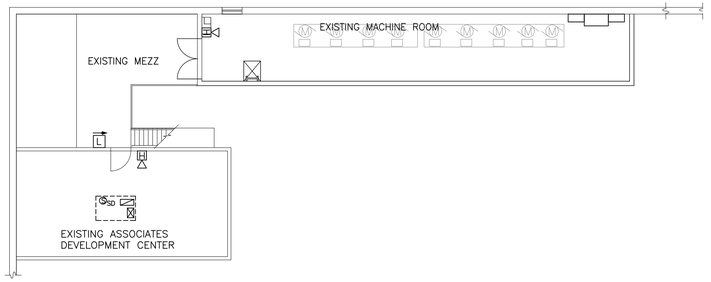
1 FLOOR PLAN - COMMUNICATION
SCALE: 3/32"=1'-0"



4 CABLING OFFICE - COMMUNICATION
SCALE: 3/16"=1'-0"



3 LOADING DOCK - FIRE ALARM
SCALE: 3/32"=1'-0"

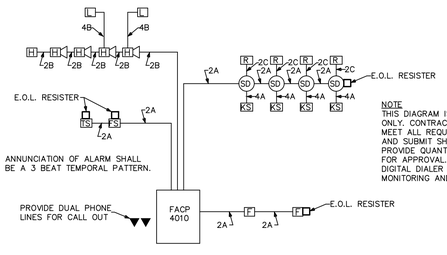


2 MEZZ. FLOOR PLAN - FIRE ALARM
SCALE: 3/32"=1'-0"

FIRE ALARM MATRIX

SEQUENCE OF OPERATIONS / ALARM SOURCE & TYPE	ACTIVATE COMMON ALARM SIGNAL INDICATOR	ACTIVATE AUDIBLE ALARM SIGNAL	ACTIVATE AUDIBLE SUPERVISORY SIGNAL INDICATOR	ACTIVATE AUDIBLE SUPERVISORY SIGNAL	ACTIVATE COMMON TROUBLE ALARM SIGNAL INDICATOR	ACTIVATE COMMON TROUBLE ALARM SIGNAL	ACTIVATE COMMON ALARM SIGNAL INDICATOR	DISPLAY CHANGE OF STATUS	ACTIVATE EXTERNAL HORN STROBE	TRANSMIT FIRE ALARM SIGNAL TO CENTRAL STATION	TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION	TRANSMIT TROUBLE SIGNAL TO CENTRAL STATION	SHOW CHANGE OF STATUS ON ANNUNCIATOR	SHOW CHANGE OF STATUS ON CENTRAL	TRANSMIT FIRE ALARM SIGNAL TO CENTRAL STATION	TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION	TRANSMIT TROUBLE SIGNAL TO CENTRAL STATION
	BUILDING SYSTEMS OUTPUTS CENTRAL COMM																
1. MANUAL PULL STATION	●	●					●	●	●	●			●	●	●		
2. BUILDING SMOKE DETECTOR	●	●					●	●	●	●			●	●	●		
3. DUCT DETECTOR	●	●					●	●	●	●			●	●	●		
4. SMOKE DETECTOR DIRTY MALFUNCTION-ALL				●	●		●					●	●	●			
5. SPRINKLER WATERFLOW	●	●					●	●	●	●			●	●	●		
6. SPRINKLER TAMPER				●	●						●		●	●			
7. FIRE ALARM AC POWER FAILURE						●	●		●				●	●			●
8. FIRE ALARM SYSTEM BATTERY LOW						●	●		●				●	●			●
9. OPEN CIRCUIT						●	●		●				●	●			●
10. GROUND FAULT						●	●		●				●	●			●
11. NOTIFICATION APPLIANCE SHORT CIRCUIT						●	●		●				●	●			●
12. SYSTEM RESET				●	●						●		●				

NOTES:
1. SYSTEM RESET SHALL CLEAR ALL DETECTORS AND MANUAL ALARM SIGNALS, STOP AND RESET THE PRE-DISCHARGE COUNTDOWN AND STOP TRANSMISSION OF ALL ALARM SIGNALS TO THE MAIN PANEL
2. SYSTEM SHALL BE PROGRAMMED SUCH THAT THE SYSTEM CAN BE RESET WHILE THE MANUAL ABORT BUTTON IS ACTIVATED.

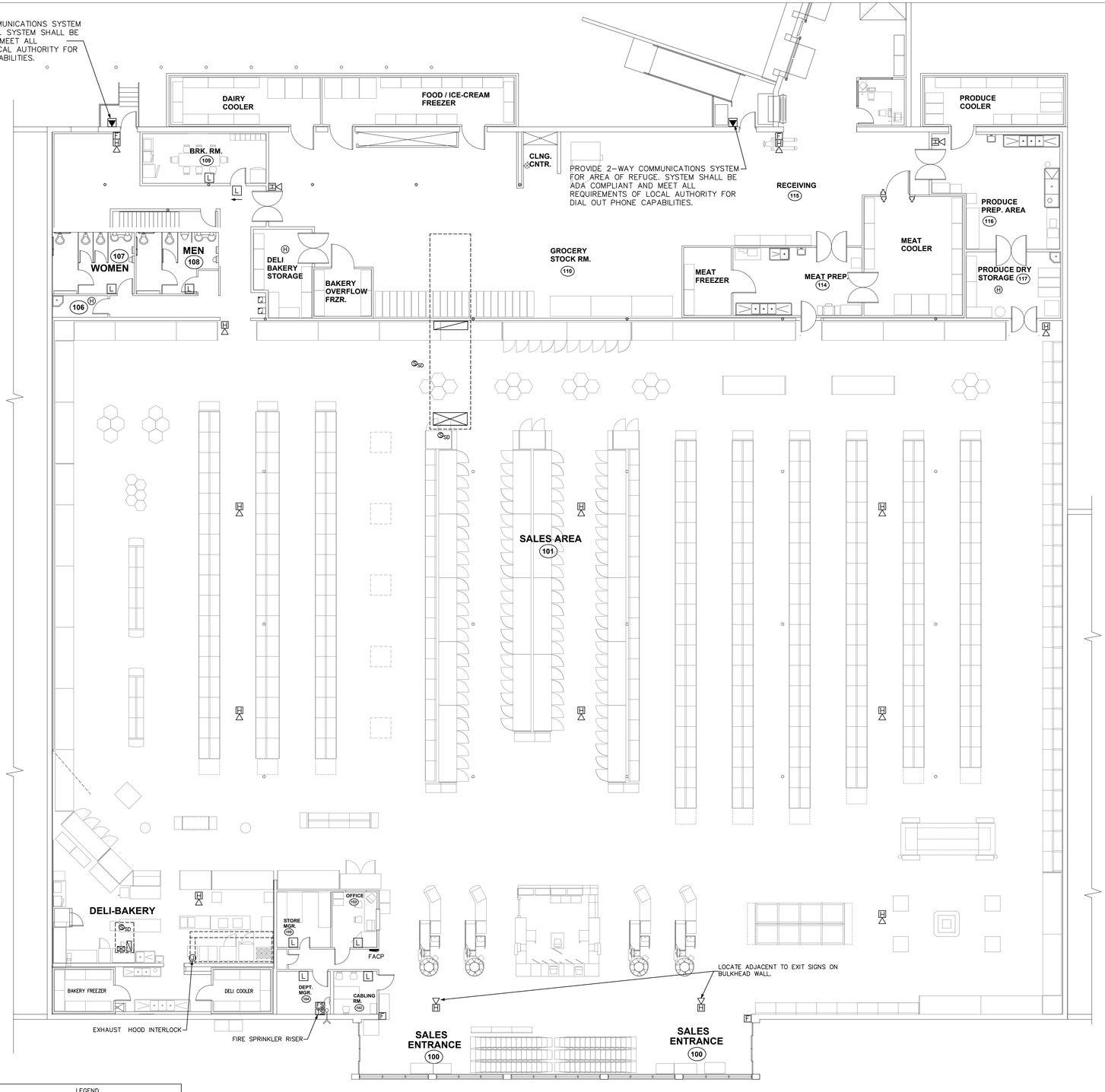


WIRE LEGEND
A = 18 AWG. SOLID ALARM
B = 14 AWG SOLID CONTROL
C = 18 AWG SOLID CONTROL

NOTE: ALL WIRING TO BE EXPOSED EXCEPT VERTICAL RUN FROM CEILING TO DEVICE.

NOTE
THIS DIAGRAM IS INTENDED TO BE DIAGRAMMATIC ONLY. CONTRACTOR IS TO DESIGN SYSTEM TO MEET ALL REQUIREMENTS OF LOCAL AUTHORITY AND SUBMIT SHOP DRAWINGS FOR APPROVAL. PROVIDE QUANTITIES OF DEVICES AS NECESSARY FOR APPROVAL. FIRE ALARM TO BE PROVIDED W/ DIGITAL DIALER FOR UL LISTED CENTRAL STATION MONITORING AND BATTERY BACKUP AS REQUIRED.

4 FIRE ALARM RISER DIAGRAM
NO SCALE



LEGEND	
FACP 4010	4010-9101 SIMPLEX POWER LIMITED CONTROL PANEL
F	4099-9001 PULL STATION
HK	4906-9127 HORN/STROBE
L	4906-9101 STROBE ONLY
SD	4098-9714 DUCT DETECTOR
H	4098-9733 HEAT DETECTOR
R	MR801/T RELAY
KS	2908-9806 KEY SWITCH
FS	FLOW SWITCH (FURNISHED BY F.S. CONTRACTOR)
TS	TAMPER SWITCH (FURNISHED BY F.S. CONTRACTOR)

1 FLOOR PLAN - FIRE ALARM
SCALE: 3/32"=1'-0"