

PANELBOARD B		NEMA ENCLOSURE 1		AIC RATING EXISTING						
PANEL TYPE EATON		MOUNTING SURFACE		NOTES						
CCT NO.	LOAD DESCRIPTION	BKR SIZE	BKR OPT	ACTUAL KVA	PHASE	ACTUAL KVA	BKR OPT	BKR SIZE	LOAD DESCRIPTION	CCT NO.
1	REC - RR/BOH	20/1		0.900	A	1.080		20/1	REC - SALES	2
3	HAND DRYER - MENS	20/1		1.500	B	0.200	LO	20/1	POWERED DOOR	4
5	TRACK - 1A - SALES TRACK	20/1		1.400	C	0.180		20/1	LTG - 1A - PENDANTS	6
7	TRACK - 3A - SHOW WINDOW	20/1		0.440	A	0.792		20/1	LTG - 2A - EMNL SALES	8
9	TRACK - 1A - SALES TRACK	20/1		1.800	B	0.957	LO	20/1	LTG - 2A - BOH	10
11	EMPLOYEE TIMECLOCK	20/1		0.180	C	1.682		20/1	LTG - 1A - PERIMETER	12
13	EWC	20/1	GFCI	0.400	A	0.512	LO	20/1	LTG - EXIT SIGN/ EMNL/ RR	14
15	TRACK - 1A - SALES TRACK	20/1		1.560	B	0.000		20/1	SPARE	16
17	LTG - 1A - INTERIOR SIGNAGE	20/1		0.800	C	1.400		20/1	REC - PERIMETER TRACK	18
19	REC - IG	20/1	LO	0.360	A					
21	REC - IG	20/1	LO	0.360	B					
23	REC - IG	20/1	LO	0.180	C					
25	REC - IG	20/1	LO	0.360	A					
27	REC - IG	20/1	LO	0.180	B					
28	SPACE				C					
31	RTU 4	80/3		9.056	A					
33				9.056	B					
35				9.056	C					
				14.669					RTU 1	35
				14.669		125/3				34
				14.669						38
37	RTU 5	110/3		13.038	A					
39				13.038	B					
41				13.038	C					
VOLTAGE 208/120		PHASE 3		PANEL MAX AMPS 400A						
MAINS MLO		WIRE #		OPTIONS						
ACTUAL CONNECTED KVA		N.E.C. DEMAND KVA		N.E.C. DEMAND AMPS						
RELOCATED PANEL		41.607		PHASE A 44.493						
		43.320		PHASE B 46.199						
		42.585		PHASE C 44.851						
		127.512		TOTAL 135.543		376 AMPS				

- ① BREAKERS SHOWN BOLD ARE NEW BREAKERS TO BE INSTALLED IN EXISTING PANEL.
 ② RELOCATE 80/3 POLE BREAKER FROM PANEL A TO PANEL B.

DESCRIPTION	ACTUAL CONNECTED KVA	DEMAND FACTOR	ACTUAL DEMAND KVA	N.E.C. CONNECTED KVA	N.E.C. DEMAND FACTOR	N.E.C. DEMAND KVA
TRACK LIGHTING	5.2	1.25	6.5	8.0	1.25	10.0
GENERAL LIGHTING	4.92	1.25	6.1	9.9	1.25	12.4
SHOW WINDOW LIGHTING ALLOW.	---	1.25	---	0.0	200W/LF	0
GEN. PURPOSE RECEPTACLE	0	1.0 < 10KVA	0	1.0 < 10KVA	0.5 > 10KVA	0
MOTOR(S)	0	1.0 + 25% LARGEST	0	1.0 + 25% LARGEST	0	0
FIXED ELECTRIC SPACE HTG. (208V)	0*	1.0	0*	0*	1.0	0*
AIR CONDITIONING EQUIPMENT (208V)	110*	1.0 + 25% LARGEST**	110*	110*	1.0 + 25% LARGEST**	110*
ELECTRIC WATER HEATER	0	1.25	0	0	1.25	0
MISCELLANEOUS LOADS	2.28	1.0	2.28	2.28	1.0	2.28
TOTAL	12.3		12.5	12.7		13.1

NOTES: * USE GREATER VALUE OF THE TWO CATEGORIES WHERE LOADS ARE NON-CONCURRENT.
 ** 125% OF LARGEST COMPRESSOR MOTOR IN SYSTEM. APPLIES TO ONLY ONE UNIT.
 *** ACTUAL SHOW WINDOW LIGHTING IS INCLUDED IN TRACK AND GENERAL LIGHTING SECTIONS.
 **** TOTAL SUM OF CURRENT LIMITERS IN AMPS

MINIMUM FEEDER = $131 \text{ KVA} \times 1000 = 363 \text{ A}$
 AMPACITY 208×1.73

ELECTRICAL SERVICE AMPACITY = 400 A @ 208V, 3 PH

BREAKER TYPES
TO HANDLE LOCK ON DEVICE
TO HANDLE LOCK OFF DEVICE
TO HANDLE TRIP BREAKER
SHUNT TRIP BREAKER
AS SHUNT LINK AS BREAKER
GFCI GROUND FAULT CIRCUIT INTERRUPTER BREAKER
FOR HEATING, A/C, & REFRIGERATION RATED BREAKER
AUXILIARY CONTACTS
HT HANDLE TIE

PANELBOARD A		NEMA ENCLOSURE 1		AIC RATING EXISTING						
PANEL TYPE GE		MOUNTING SURFACE		NOTES						
VOLTAGE 208/120		PHASE 3		PANEL MAX AMPS 400A						
MAINS MLO		WIRE #		OPTIONS						
CCT NO.	LOAD DESCRIPTION	BKR SIZE	BKR OPT	ACTUAL KVA	PHASE	ACTUAL KVA	BKR OPT	BKR SIZE	LOAD DESCRIPTION	CCT NO.
1	LTG 2A - TRACK	20/1	HT	1.024	A	1.840		20/1	LTG 1A - PERIMETER HEADS	2
3	LTG 1A - TRACK HEADS	20/1		0.920	B	0.880		20/1	LTG 1A - PERIMETER HEADS	4
5	HAND DRYER - WOMEN'S	20/1		1.500	C	0.720		20/1	REC - 3A - SHOW WINDOW	6
7	MICROWAVE	20/1		1.500	A	0.540		20/1	REC - 3A - SHOW WINDOW	8
9	2A - EF-1 RESTROOMS	20/1		0.500	B	0.180		20/1	REC - SHOP BACKLIP MONITOR	10
11	LTG 2A - TRACK	20/1	HT	1.536	C	0.400		20/1	EAS SYSTEM	12
13	LTG 1A - TRACK HEADS	20/1		1.320	A	0.200		20/1	ADA PUCK	14
15	REFRIGERATOR BOH	20/1	GFCI	0.600	B	0.720		20/1	LTG 4A - STOREFRONT SIGN	16
17	REC - ROOF	20/1		0.500	C	0.720		20/1	LTG 4A - REAR SIGN	18
19	REC - 3A - CEILING	20/1		0.360	A	0.360		20/1	REC - 3A - CEILING	20
21	LTG - 2A - FA MIRROR	20/1		0.573	C	0.360		20/1	LIGHTING CONTROL/ EMS	22
23	USB CHARGING FITTING	20/1		0.000	C	0.540		20/1	REC - GENERAL CASHWRAP	24
25	REC - CCTV BACKBOARD	20/1		0.250	A	0.840		20/1	REC - GENERAL CASHWRAP	26
27	REC IG - MGR DESK CCTV	20/1	LO	0.360	B	0.360		20/1	REC BATTERY CHARGER CW	28
29	PLAY NETWORK SOUND	20/1		0.360	C	0.440		20/1	WATER HEATER EWH	30
31	REC - MGR DESK GENERAL	20/1		0.360	A	0.566		20/1		32
33	BATTERY CHARGE STATION	20/1		0.540	B	0.906		80/3	AC RTU - 2	34
35	REC - MGR DESK	20/1		0.720	C	9.056				36
37	REC - CCTV MONITOR	20/1		0.540	A	9.056				38
39	REC IG - MGR DESK CCTV	20/1	LO	0.360	B	9.056		80/3	AC RTU - 3	40
41	SPARE	20/1		0.000	C	9.056				42
ACTUAL CONNECTED KVA		N.E.C. DEMAND KVA		N.E.C. DEMAND AMPS						
RELOCATED PANEL		28.1		PHASE A 31.762						
		24.465		PHASE B 28.988						
		25.548		PHASE C 28.192						
		77.759		TOTAL 88.942		248 AMPS				

DESCRIPTION	ACTUAL CONNECTED KVA	DEMAND FACTOR	ACTUAL DEMAND KVA	N.E.C. CONNECTED KVA	N.E.C. DEMAND FACTOR	N.E.C. DEMAND KVA
TRACK LIGHTING	7.32	1.25	9.15	12.0	1.25	15.0
GENERAL LIGHTING	2.01	1.25	2.52	2.01	1.25	2.52
SHOW WINDOW LIGHTING ALLOW.	---	1.25	---	0 FT	200W/LF	0
GEN. PURPOSE RECEPTACLE	6.69	1.0 < 10KVA	6.69	6.69	1.0 < 10KVA	6.69
MOTOR(S)	0	1.0 + 25% LARGEST	0	0	1.0 + 25% LARGEST	0
FIXED ELECTRIC SPACE HTG. (208V)	0*	1.0	0*	0*	1.0	0*
AIR CONDITIONING EQUIPMENT (208V)	54.3*	1.0 + 25% LARGEST**	54.3*	54.3*	1.0 + 25% LARGEST**	54.3*
ELECTRIC WATER HEATER	1.44	1.25	1.8	1.44	1.25	1.8
MISCELLANEOUS LOADS	5.96	1.0	5.96	5.96	1.0	5.96
TOTAL	77.8		80.5	84.8		89.3

NOTES: * USE GREATER VALUE OF THE TWO CATEGORIES WHERE LOADS ARE NON-CONCURRENT.
 ** 125% OF LARGEST COMPRESSOR MOTOR IN SYSTEM. APPLIES TO ONLY ONE UNIT.
 *** ACTUAL SHOW WINDOW LIGHTING IS INCLUDED IN TRACK AND GENERAL LIGHTING SECTIONS.
 **** TOTAL SUM OF CURRENT LIMITERS IN AMPS

MINIMUM FEEDER = $89 \text{ KVA} \times 1000 = 248 \text{ A}$
 AMPACITY 208×1.73

ELECTRICAL SERVICE AMPACITY = 400 A @ 208V, 3 PH

EXTERNAL CONTACTOR LABEL	INTERNAL CONTACTOR PANEL LABEL	SCENE	MANUFACTURER MODEL	TYPE	COIL VOLTAGE	CONTACT VOLTAGE	CONTACT AMPERE RATING	NO. OF POLES N.O.	NEMA TYPE ENCLOSURE	CIRCUITS CONTROLLED
1A		1 ALL STORE LIGHTS	GENERAL ELECTRIC CR463L20-AJA	ELEC ENERGIZED ELEC HELD	120	600	30	- 8	NEMA 1	B-5,9,15,17 A-3,13
1B		1 ALL STORE LIGHTS	GENERAL ELECTRIC CR463L20-AJA	ELEC ENERGIZED ELEC HELD	120	600	30	- 6	NEMA 1	B-6,12 A-2,4
2A		2 EMPLOYEE LIGHTS	GENERAL ELECTRIC CR463L20-AJA	ELEC ENERGIZED ELEC HELD	120	600	30	2 8	NEMA 1	NC: B-10 & A-9,23 NC: A-1,11,21 NO: B-8
3A		3 SPECIALTY LIGHTS	GENERAL ELECTRIC CR463L20-AJA	ELEC ENERGIZED ELEC HELD	120	600	30	- 8	NEMA 1	A-6,8,19,20 B-7
4A		4 EXTERIOR LIGHTS	GENERAL ELECTRIC CR463L20-AJA	ELEC ENERGIZED ELEC HELD	120	600	20	- 4	NEMA 1	A-16,18

REMARKS: 1. THE ELECTRICALLY HELD CONTACTOR SPECIFIED, (MODEL NUMBER CR463L20-AJA), USES A G.E. 2-POLE CONTACTOR, (MODEL NUMBER CR460XP32,) FOR A TOTAL NUMBER OF POLES SEE NO. OF POLES COLUMN IN CONTACTOR SCHEDULE.

NEW STORE

OLD NAVY

REP. I.D.: 000054116

STORE NUMBER: 4458

STORE LOCATION: VINELAND 8231 VINELAND AVENUE SUITE 2151 ORLANDO, FLORIDA 32821

DESIGN TYPE: P3
 GENERATION: 17Q12
 PROTOTYPE DATE: 07/18/16
 OPENING: 2017

CONSULTANT INFO:
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PROFESSIONAL STAMP:
 SARA HAMIL
 LICENSE
 No. 74882
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 4/17/17

ARCHITECT INFO:
B|R|R
 architecture
 ARCHITECT OF RECORD: BRR ARCHITECTURE, INC.
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ISSUE TYPE:
 PERMIT/BID: 04/07/17

REVISIONS:

DRAWN BY: DPR
 A/E JOB NUMBER: 65013011

TITLE SHEET:
 PANEL SCHEDULES

SHEET NUMBER:
E9-1