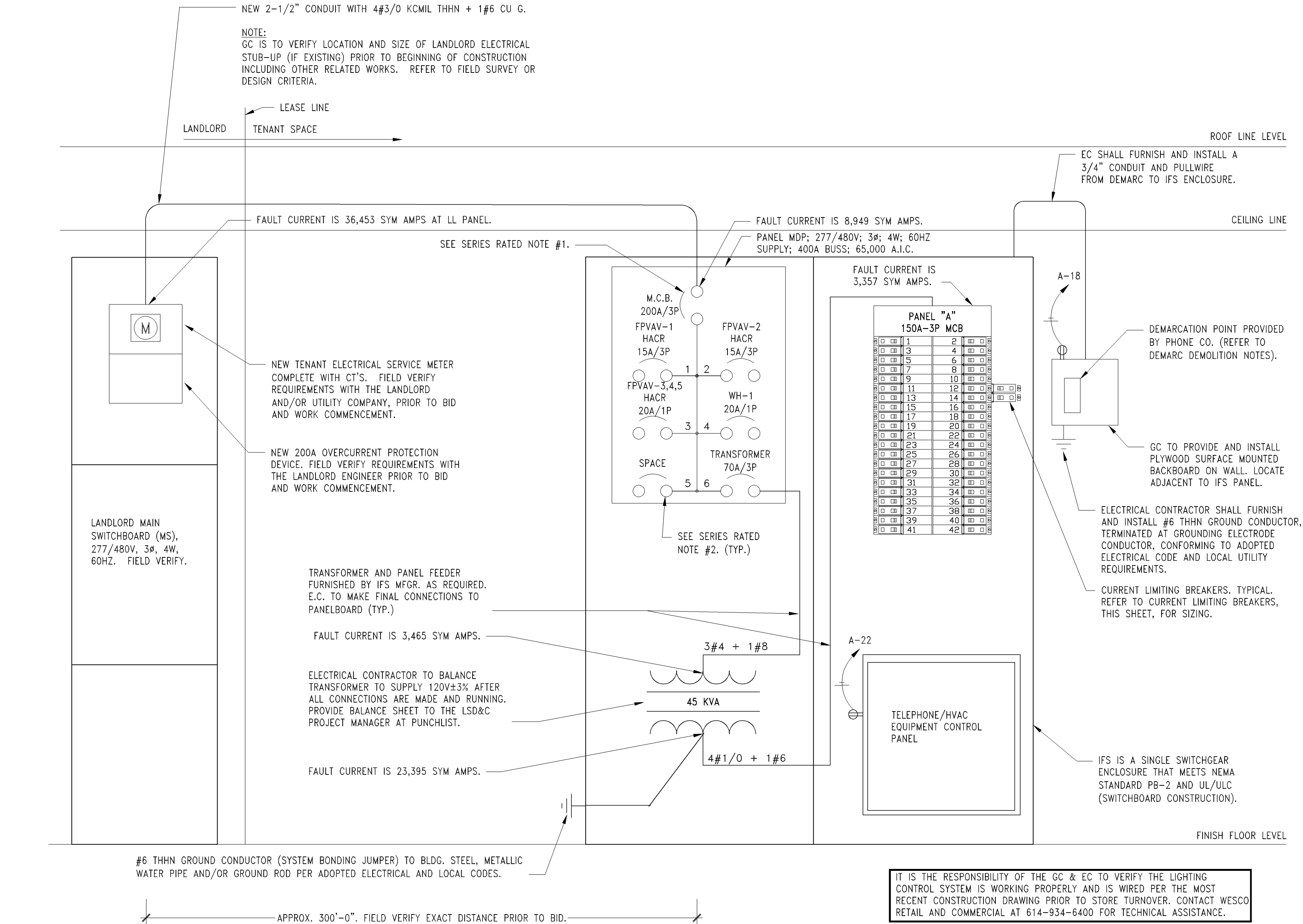


ELECTRICAL RISER DIAGRAM, PANEL SCHEDULES, AND NOTES

ELECTRICAL POWER GENERAL NOTES								
1.	HYAC CIRCUIT BREAKERS SHALL BE "HACR" TYPE WHEN REQUIRED BY EQUIPMENT NAMEPLATE PER ADOPTED ELECTRICAL CODE.							
2.	ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXACT K.A.L.C. RATING (BUILDING SERVICE AVAILABLE FAULT CURRENT) OF LANDLORDS DISTRIBUTION EQUIPMENT PRIOR TO BID AND WORK COMMENCEMENT. IF FOUND TO BE HIGHER THAN PANEL RATING, NOTIFY YOUR L&D&C PROJECT MANAGER IMMEDIATELY.							
3.	ELECTRICAL CONTRACTOR SHALL BALANCE ALL PANELS AND ELECTRICAL EQUIPMENT TO 7% (+/-) BETWEEN PHASES: A/B, B/C, A/C, REGARDLESS OF CIRCUITING INDICATED.							
4.	PROPER CLEARANCE MUST BE MAINTAINED ABOUT ELECTRICAL EQUIPMENT PER ADOPTED ELECTRICAL CODE. FIELD VERIFY EXACT MOUNTING SPACE AVAILABLE IN ELECTRICAL ROOM/AREA PRIOR TO INSTALLATION OF ELECTRICAL EQUIPMENT.							
5.	ALL PANEL BRANCH CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE.							
6.	ALL PANEL BUS BARS SHALL BE COPPER.							
7.	MOUNT A TYPEWRITTEN DIRECTORY BEHIND GLASS OR PLASTIC ON THE INSIDE OF EACH PANEL DOOR AND, ON THE DIRECTORY, SHOW THE CIRCUIT NUMBER AND COMPLETE DESCRIPTION OF ALL OUTLETS ON EACH CIRCUIT.							
8.	ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL ELECTRICAL CONNECTIONS FOR A COMPLETE AND OPERABLE ELECTRICAL DISTRIBUTION SYSTEM.							
9.	ALL PANELBOARDS, SWITCHBOARDS AND LINE VOLTAGE CONTROL EQUIPMENT SHALL BE FACTORY MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTING, SERVICING OR MAINTENANCE OF EQUIPMENT.							
10.	ELECTRICAL CONTRACTOR SHALL MAKE SURE ENTIRE INSTALLATION CONFORMS TO ADOPTED ELECTRICAL CODE - EXAMINATION, IDENTIFICATION, INSTALLATION, AND USE OF EQUIPMENT.							
11.	SWITCHBOARDS, PANELBOARDS, DISCONNECT SWITCHES, AND CONTRACTORS ARE TO BE "LISTED" AND "IDENTIFIED" AS RATED FOR A MINIMUM OF 75°C CONDUCTOR TERMINATION.							
12.	IFS ENCLOSURE LIGHTING CONTROLS: SOLENOID OPERATED BABR FOR LIGHTING ZONE DESIGNATIONS (ie: ZONE A, B, C, D)							
13.	IF S ENCLOSURE FURNISHED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR IS HEREIN DESCRIBED:							
A.	UNIT WILL BE SHIPPED TO PROJECT IN MULTIPLE SECTIONS AND THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR OFF-LOADING OF EQUIPMENT, INSPECTION OF EQUIPMENT FOR DAMAGE, VERIFICATION OF EQUIPMENT RECEIVED FOR PROPER STORAGE, SETTING AND MOVING OF EQUIPMENT INTO SPACE AS WELL AS REASSEMBLING OF SECTIONS INTO ONE COMPLETE UNIT PER MANUFACTURER'S DOCUMENTATION.							
B.	ELECTRICAL CONTRACTOR SHALL CONNECT ALL PROVIDED INTERCONNECTING CABLES BETWEEN SECTIONS AND TORQUE CONNECTIONS PER MANUFACTURER'S REQUIREMENTS.							
C.	ALL CONNECTIONS WITHIN THE TELEPHONE/DATA SECTION AND HVAC CONTROL SECTION OF THE IFS ENCLOSURE WILL BE DONE BY OTHERS. ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLATION OF LOW VOLTAGE CONDUIT SYSTEM (IF REQUIRED BY CODE OR LANDLORD) INTO THESE SECTIONS ONLY.							
D.	SWITCHBOARD WILL BE SHIPPED ON AN ENCLOSED SEMI-TRAILER. ELECTRICAL CONTRACTOR MUST ARRANGE FOR A FORKLIFT TO OFF-LOAD AT JOB SITE. ELECTRICAL CONTRACTOR WILL RECEIVE 24 NOTICE PRIOR TO DELIVERY.							
14.	ELECTRICAL CONTRACTOR SHALL INCLUDE ALL COSTS TO FURNISH AND INSTALL ALL LOW VOLTAGE WIRING IN CONDUIT, AS PART OF BASE BID.							
DEMARC DEMOLITION NOTES								
1.	THE GC SHALL NOT CUT THE MAIN TELEPHONE WIRES LEADING TO THE TERMINATION STRIP (DEMARC BLOCK) OR PHONE SYSTEM.							
2.	IF THE DEMARC IS TO BE RELOCATED, IT SHALL BE COORDINATED WITH LIMITED TECHNICAL SERVICES (LTS). FOR BBW CALL 1-877-415-7911 AND SELECT OPTION 2. FOR BBW CANADIAN STORE CALL LASENZA 1-877-211-5151 THEN 877# 3. FOR VS CALL 1-814-415-1011.							
3.	THE GC SHALL ALLOW ADEQUATE TIME FOR RELOCATION IN THE CONSTRUCTION SCHEDULE.							
4.	IF THE WALL WITH THE TELEPHONE BLOCK IS SCHEDULED FOR DEMOLITION, THE ENTIRE BACKING PANEL SHALL BE REMOVED FROM THE WALL (WITHOUT DISCONNECTING THE WIRING) AND IT SHALL BE SAFELY SECURED IN THE CEILING UNTIL IT CAN BE RELOCATED TO THE NEW AREA OR REINSTALLED ON WALL.							
SERIES RATED NOTES								
1.	MAIN CIRCUIT BREAKER IN "PANEL IFS" SHALL BE FULLY RATED TO PROVIDE AN INTERRUPTING RATING OF 65,000 AMPS RMS.							
2.	MAIN CIRCUIT BREAKER SHALL BE "SERIES" RATED WITH ALL OTHER FEEDER BREAKERS IN "PANEL IFS" TO PROVIDE AN INTERRUPTING RATING OF 65,000 AMPS RMS.							
3.	PANELBOARDS OR OTHER EQUIPMENT THAT IS PROTECTED BY "SERIES" RATED OVERCURRENT PROTECTED DEVICES UPSTREAM SHALL BE MARKED WITH A PERMANENT LABEL THAT INDICATES THE SHORT-CIRCUIT RATING OF THE SERIES COMBINATION AND CALLS OUT THE SPECIFIC REPLACEMENT OVERCURRENT DEVICE(S) THAT CAN BE UTILIZED.							

ELECTRICAL EQUIPMENT DATA								
SYM.	ITEM	VOLTAGE	FEEDERS		TYPE OF CONN.	BRANCH BREAKER	DISC. SW.	BUS/ FUSES
			WIRE	COND.				
①	WATER HEATER	480V, 1ø	2#12 THHN 1#12 G	1/2"	'AC' TOGGLE SWITCH	20A-2P	---	---
②	FPVAV-1 & 2 (WITH HEATING)	277/480V, 3ø	4#12 THHN 1#12 G	1/2"	THRU UNIT DISC. SW.	15A-3P	---	---
③	FPVAV-3,4,5	277V, 1ø	2#12 THHN 1#12 G	1/2"	THRU UNIT DISC. SW.	20A-1P	---	---
NOTE: 1. 'AC' TOGGLE SWITCH TO BE FURNISHED BY L&D&C AND INSTALLED BY ELECTRICAL CONTRACTOR. 2. DISCONNECT SWITCH TO BE FURNISHED AND INSTALLED BY MECHANICAL SUPPLIER.								



CURRENT LIMITING BREAKERS		
CIRCUIT NUMBER	BREAKER SIZE	
A-12	1	15A
A-14	2	15A
NOTE: PROVIDE EATON PROC LIMITER PANEL WITH BREAKERS SHOWN. ROUTE CIRCUITS THROUGH CURRENT LIMITING BREAKER PRIOR TO LANDING ON BRANCH CIRCUIT BREAKER.		

LIGHTING TIME CONTROL LEGEND:	
A1 - EXTERIOR SIGNAGE BLADE SIGN INTERNALLY ILLUMINATED TRANSOMS STOREFRONT DOWNLIGHTING	C - TASK LEVEL 1/2 SALES FLOOR LIGHTING EVENLY DISTRIBUTED (BBW, PINK & BEN) - INCLUDING CABINET LIGHTING GENERAL SALES FLOOR RECEPTACLES DISPLAY CABINET LIGHTING RECEPTACLES
A - MARKETING LEVEL LIGHTING SHOW WINDOW LIGHTS SHOW WINDOW RECEPTACLES	D - SALES LEVEL LIGHTING BALANCE OF SALES FLOOR LIGHTING INTERIOR DISPLAY LIGHTING (CHANDELIERS, NEON, ETC)
B - STOCKING STOCKROOM (NON-SALES) LIGHTING	
NOTE: ALL LIGHTING CIRCUITS CONNECTED TO LIGHTING ZONES ARE CONNECTED AND CONTROLLED AUTOMATICALLY THROUGH THE H.V.A.C BUILDING CONTROL TIME CLOCK. REFER TO ELECTRICAL POWER GENERAL NOTE #13 ON THIS SHEET.	

PANELBOARD A													
VOLTAGE 120/208V., 3PH. 4W MOUNTING SURFACE BUS RATING 225A										150A MCB A.I.C.: 10,000A			
LCL	LTG	CCT	LOAD	CB	LOAD			CB	LOAD	CCT	LTG	LCL	
ZONE	NO	NO	DESCRIPTION	AMP	POLE	A	B	C	AMP	POLE	DESCRIPTION	NO	ZONE
X	1		NUEM LTS	20	1	1,288	360		20	1	SHOW WINDOW RCPT	2	A
X	D	3	PINK SIGNAGE	20	1		418	288	20	1	STOCKROOM LTS	4	B
X	D	5	PINK SIGNAGE	20	1			148 150	20	1	SENSOR MONITOR	6	
X	A	7	SHOW WINDOW LTS	20	1	91	308		20	1	STOCK N/UEM LTS	8	X
X	A1	9	SIGN	20	1		1,200 1,080		20	1	BOH RCPT	10	
X		11	HVAC/SALES RCPT	20	1			360 1,554	20	1	SALES AREA TK LTS	12	D
X	D	13	SALES PERM LT	20	1	1,468 1,176			20	1	SALES AREA TK LTS	14	D
X	C	15	TG RM/SALES CNTR LTS	20	1		1,348 1,440		20	1	SECURITY EQUIPMENT	16	
X	B	17	TG RM/SALES CNTR LTS	20	1			830 360	20	1	(WR) TELEPHONE BRD.	18	
		19	HAND DRYER	20	1	1,800 360			20	1	PAGING SYSTEM	20	
		21	MANAGERS RCPT	20	1		900 500		20	1	(WR) TEMP. CONTROLS	22	
		23	MANAGERS DED. RCPT	20	1			540 1,080	20	1	CASHWRAP IG	24	
		25	A.L.L. IG RCP	20	1	380 720			20	1	BACKWRAP RCPT	26	
		27	HAND DRYER	20	1		1,800 900		20	1	MUSIC/SOUND SYSTEM	28	
X	A	29	WINDOW SIGN	20	1		1,200 1,080		20	1	CASHWRAP RCPT	30	
		31	MICROWAVE	20	1	1,200 1,440			20	1	SENSORMATIC	32	
		33	REFRIGERATOR	20	1		1,200 0		20	1	SPARE	34	
		35	ROLLING GRILLE	20	1			1,440 0	20	1	SPARE	36	
		37	PINK GONDOLA	20	1	980 360			20	1	BACKWRAP IG	38	
		39	VIDEO WALL	20	1		720 720		20	1	IP CAMERA	40	
		41	VIDEO WALL	20	1			720 360	20	1	SECURITY EQUIPMENT	42	
LOAD/PH: (CONNECTED)						11,929	12,412	9,822	TOTAL VA: 37,171 VA				
LCL @ 25% PER PHASE						1,172	813	1,023	TOTAL AMPS: 103 A				
TOTAL LOAD/PH: (DEMAND)						13,101	13,225	10,845					
NOTES: ALL CIRCUITS BREAKERS TO BE 20 AMP, 1-POLE UNLESS OTHERWISE NOTED.													
CONNECTED LOAD						TOTAL DEMAND			BREAKER OPTIONS:				
A 11,929 kW						A 13,101 kW			BABR - SOLENOID OPERATED BABR				
B 12,412 kW						B 13,225 kW			LO - HANDLE LOCK-OFF DEVICE				
C 9,822 kW						C 10,845 kW			ST - SHUNT TRIP				
TOTAL 34,163 kW						TOTAL 37,171 kW			AUX - AUXILIARY CONTACTS				
(ALL PHASES SHALL BE BALANCED WITH 7% USING ACTUAL LOAD TOTALS)													
PA - HANDLE PADLOCK ATTACHMENT GFCI - GROUND FAULT INTERRUPT HACR - HEATING, AC & REFRIGERATION LCL - CONTINUOUS LOAD													

TRANSFORMER LOAD SUMMARY						
DESCRIPTION	ACTUAL CONNECTED (kW/250A)	POWER FACTOR	ACTUAL DEMAND (kVA)	CONNECTED (kW/250A)	DEMAND FACTOR	DEMAND (kVA)
LIGHTING	11.433	1.0	11.433	11.433	1.25	14.291
RECEPTACLES	9.280	1.0	9.280	9.280	1.0x 100w 0.5 REMAINING	9.280
MOTORS	0.240	1.0	0.240	0.240	1.25	0.300
AIR CONDITIONING	0.000	1.0	0.000	0.000	1.0	0.000
WATER HEATER	0.000	1.0	0.000	0.000	1.0	0.000
MISCELLANEOUS	13.210	1.0	13.210	13.210	1.0	13.210
TOTAL	34.163		34.163	34.163		37.081
USE	45		KVA 480-120/208V, 3 PHASE TRANSFORMER			

ELECTRICAL LOAD SUMMARY						
DESCRIPTION	ACTUAL CONNECTED (kW/250A)	POWER FACTOR	ACTUAL DEMAND (kVA)	CONNECTED (kW/250A)	DEMAND FACTOR	DEMAND (kVA)
LIGHTING	8.640	1.0	8.640	8.640	1.25	10.800
TRACK LIGHTING	2.730	1.0	2.730	2.730	229 FT 150VA/2FT ***	17.175
SHOW WINDOW	0.063	1.0	0.063	0.063	4 FT 200VA/FT **	0.800
RECEPTACLES	9.280	1.0	9.280	9.280	1.0x 100w 0.5 REMAINING	9.280
MOTORS	3.565	1.0	3.565	3.565	1.25	4.456
AIR CONDITIONING *	0.000	1.0	0.000	0.000	1.0 ****	0.000
ELECTRIC HEATING *	9.978	1.0	9.978	9.978	1.0	9.978
WATER HEATER	3.000	1.0	3.000	3.000	1.0	3.000
MISCELLANEOUS	13.210	1.0	13.210	13.210	1.0	13.210
TOTAL	50.466		50.466	50.466		68.699
NOTES: * USE GREATER LOAD OF THE TWO CATAGORIES ** 200VA PER FOOT OR ACTUAL CONNECTED *** 150VA/2FT OR ACTUAL CONNECTED **** 125% OF THE LARGEST MOTOR OR COMPRESSOR IN SYSTEM						
DEMAND kW *1000			= MINIMUM FEEDER AMPERAGE			
68.699 *1000			= 83 A			
480 *1.732			NEW 200A SERVICE			

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PINK VICTORIA'S SECRET

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SPACE # 1-904
LEXINGTON, KY 40503

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ELECTRICAL PANELS AND RISER DIAGRAM

DRAWING NUMBER: E05.01

PROJECT INFORMATION:

REVISIONS:

DATE ISSUED: 09-05-2014
ST
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ELECTRICAL PANELS AND RISER DIAGRAM

DRAWING NUMBER: E05.01

LARSON BINKLEY

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