

LOCATION: WR ENCLOSURE (IFS)

NOTES:

ALL CIRCUIT BREAKERS TO BE 20 AMP, 1-POLE UNLESS OTHERWISE NOTED.
(ALL PHASES SHALL BE BALANCED WITH 7% USING ACTUAL LOAD TOTALS)

BREAKER OPTIONS:

BABR - SOLENOID OPERATED BABR
L/O - HANDLE LOCK-OFF DEVICE
ST - SHUNT TRIP
AUX - AUXILIARY CONTACTS
PA - HANDLE PADLOCK ATTACHMENT
GFCI - GROUND FAULT INTERRUPT
HACR - HEATING, A/C & REFRIGERATION
ICT - CONTINUOUS (SI) OVER

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BREAKER OPTIONS:

BABR - SOLENOID OPERATED BABR
LO - HANDLE LOCK-OFF DEVICE
ST - SHUNT TRIP
AUX - AUXILIARY CONTACTS
PA - HANDLE PADLOCK ATTACHMENT
GFCI - GROUND FAULT INTERRUPT
HACR - HEATING, A/C & REFRIGERATION
LCL - CONTINUOUS (L) LOAD

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NOTES:			<u>BREAKER OPTIONS:</u>		
ALL CIRCUITS BREAKERS TO BE 20 AMP, 1-POLE UNLESS OTHERWISE NOTED.					
ACTUAL LOAD	A 7,380 kW	NEC CONNECTED TOTALS	A 7,380 kW	B&B - SOLENOID OPERATED BABR	
	B 5,266 kW		B 5,266 kW	B - HANDLE LOCK-OUT DEVICE	
	C 5,712 kW		C 5,712 kW	ST - SHUNT TRIP	
TOTAL	18,358 kW		TOTAL 18,358 kW	AUX - AUXILIARY CONTACTS	
				PA - HANDLE PADLOCK ATTACHMENT	
(ALL PHASES SHALL BE BALANCED WITH 7% USING ACTUAL LOAD TOTALS)				GFCI - GROUND FAULT INTERRUPT	
				HACR - HEATING, AC & REFRIGERATION	
				LCL - CONTINUOUS LOAD	

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ALL CIRCUIT BREAKERS TO BE 20 AMP, 1-POLE UNLESS OTHERWISE NOTED.			
		<u>BREAKER OPTIONS:</u>	
ACTUAL LOAD	A 10,950 kw	NBC CONNECTED TOTALS	A 10,950 kw
	B 11,380 kw		B 11,380 kw
	C 13,240 kw		C 13,240 kw
	TOTAL 35,570 kw		TOTAL 35,570 kw
(ALL PHASES SHALL BE BALANCED WITH 7% USING ACTUAL LOAD TOTALS)			
BMBR - SHUNT/NOT OPERATED BMBR LO - HANDLE LOCK-OFF DEVICE ST - SOLVENT TRIP AUX - AUXILIARY CONTACTS PA - HANDLE PADLOCK ATTACHMENT GCL - GROUND FAULT INTERRUPT HACR - HEATING, AC & REFRIGERATION LCD - CONTINUOUS LOAD			

A1 - EXTERIOR SIGNAGE BLADE SIGN INTERNALLY ILLUMINATED
TRANSFORMER STROBEPOINT DOWNLIGHTING

A - MARKETING LEVEL LIGHTING SHOW WINDOW LIGHTS SHOW
WINDOW RECEPTABLES

B - STOCKING STOCKROOM (NON-SALES) LIGHTING

C - TASK LEVEL 1/2 SALES FLOOR LIGHTING EVENLY DISTRIBUTED
(BBW, PINK & BEN) - INCLUDING CABINET LIGHTING GENERAL
SALES FLOOR RECEPTABLES DISPLAY CABINET LIGHTING
RECEPTABLES

D - SALES LEVELS LIGHTING DISPLAY OF SALES FLOOR LIGHTING
INTERIOR DISPLAY LIGHTING (CHANGEIERS, NEON, ETC)

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.

CIRCUIT NUMBER	BREAKER SIZE	CIRCUIT NUMBER	BREAKER SIZE	CIRCUIT NUMBER	BREAKER SIZE
CL-1 (VIA B-17)	15A	CL-7 (VIA B-6)	13A	CL-13 (VIA B-36)	13A
CL-2 (VIA B-23)	6A	CL-8 (VIA B-12)	13A	CL-14 (VIA C-29)	13A
CL-3 (VIA B-29)	15A	CL-9 (VIA B-14)	13A	CL-15 (VIA C-2)	13A
CL-4 (VIA B-31)	8A	CL-10 (VIA B-18)	15A	CL-16 (VIA C-4)	10A
CL-5 (VIA B-33)	6A	CL-11 (VIA B-32)	6A	CL-17 (VIA C-14)	13A
CL-6 (VIA B-2)	10A	CL-12 (VIA B-34)	8A	CL-18 (VIA C-10)	13A

NOTE: PROVIDE Eaton PR LIMITER PANEL WITH BREAKERS SHOWN. ROUTE CIRCUITS THROUGH CURRENT LIMITING BREAKER PRIOR TO LANDING ON BRANCH CIRCUIT BREAKER.

DESCRIPTION	ACTUAL CONNECTED (KW/KVA)	POWER FACTOR	ACTUAL DEMAND (KW)	CONNECTED (KW/KVA)	NEC DEMAND FACTOR	NEC DEMAND (KVA)
LIGHTING	16.176	1.0	16.176	16.176	1.25	20.220
TRACK LIGHTING	17.807	1.0	17.807	17.807	203 A 150VA/2FT ***	24.360
SHOW WINDOW	0.956	1.0	0.956	0.956	38 FT 200VA/FT ***	6.644
RECEPTACLES	20.867	1.0	20.867	20.867	1.0x 10kw 0.5 REMAINING	15.434
MOTORS	0.000	1.0	0.000	0.000	1.25	0.000
AIR CONDITIONING	0.000	1.0	0.000	0.000	1.0	0.000
WATER HEATER	5.660	1.0	5.660	5.660	1.0	5.660
MISCELLANEOUS	23.870	1.0	23.870	23.870	1.0	23.870
TOTAL	85.336		85.336	85.336		96.188

RE-USE 150 KVA 480-120/208V, 3 PHASE TRANSFORMER

DESCRIPTION	ACTUAL CONNECTED (KW/VA)	POWER FACTOR	ACTUAL DEMAND (KVA)	NEC CONNECTED (KW/VA)	NEC DEMAND FACTOR	NEC DEMAND (KVA)
LIGHTING	13.870	1.0	13.870	13.870	1.25	17.338
TRUCK LIGHTING	17.807	1.0	17.807	17.807	203 A 1.2507/*****	24.360
SHOW WINDOW	2.306	1.0	2.306	2.306	38 FT 200VA/FT**	5.294
RECEPTIONS	20.867	1.0	20.867	20.867	1.0-1.0K 0.5 REMAINING	15.434
MOTORS	0.000	1.0	0.000	0.000	1.25	0.000
AIR CONDITIONING *	24.930	1.0	24.930	24.930	1.0 ****	24.930
ELECTRIC HEATING *	0.000	1.0	0.000	0.000	1.0	0.000
WATER HEATER	5.660	1.0	5.660	5.660	1.3	7.075
MISCELLANEOUS	23.870	1.0	23.870	23.870	1.0	23.870
TOTAL	109.310		109.310	109.310		118.300

SYM.	ITEM	VOLTAGE	HP.	KW.	F.L.A.	FEEDERS		TYPE OF CONN.	BRANCH BREAKER	DISC. SW.	BUS/ FUSES	REMARKS
						WIRE	COND.					
①	(E) WATER HEATER	120V, 1φ	--	1.5	--	2#12 THHN 1#12 G	1/2"	'AC' TOGGLE SWITCH	20A-2P	---	---	SEE NOTE NO. 1 BELOW
②	DREAM STEAMER	208V, 3φ	--	13.500	--	3#8 THHN 1#10 G	1"	THRU RECEPTACLE	40A-3P	---	---	---
③	(E) AHU-1 & 2	480V, 3φ	5.0	--	15.0	3#12 THHN 1#12 G	3/4"	DIRECT	20A-3P	30/3 NFCSS	---	---
④	INSTANTANEOUS WATER HEATER	208V, 1φ	--	4.160	--	2#10 THHN 1#10 G	1"	'AC' TOGGLE SWITCH	30A-2P	----	----	SEE NOTE NO. 1 BELOW
NOTE: 1. 'AC' TOGGLE SWITCH TO BE FURNISHED BY L&S&C AND INSTALLED BY ELECTRICAL CONTRACTOR.												

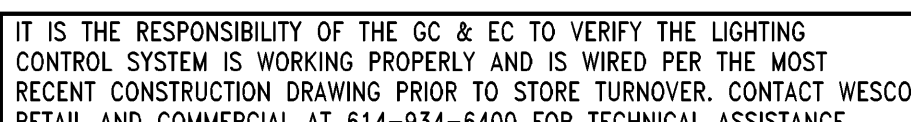
1. SWITCHBOARDS, PANELBOARDS, DISCONNECT SWITCHES, AND CONTACTORS ARE TO "LISTED" AND "IDENTIFIED" AS RATED FOR A MINIMUM OF 75°C CONDUCTOR TERMINATION.
12. ITS ENCLOSURE LIGHTING CONTROLS: SOLENOID OPERATED BARR BREAKERS ARE PROVIDED WITH ITS PANELS FOR STORE LIGHTING CONTROLS AND STOREFRONT LIGHTING. PROVIDE THE PANELS FOR LIGHTING ZONE DESIGNATIONS (i.e. ZONE A, C, D)
13. ITS 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, LIFTING 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 DISCONNECTING CABLES BETWEEN SECTIONS AND TORQUE CONNECTIONS PER MANUFACTURER'S REQUIREMENTS.
 - C. ALL CONNECTIONS WITHIN THE TELEPHONE/DATA SECTION AND PLASMA CONTROL SECTION OF THE ITS ENCLOSURE WILL BE DONE BY OTHERS. ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLATION OF LOW VOLTAGE CONDUIT (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 THIS BID
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 B9W CALL 1-877-415-7911 AND SELECT OPTION 2, FOR B9W CANADIAN STORE CALL LASSENZA 1-877-211-5151 THEN 877-33-33. FOR VS CALL 1-614-415-1011.
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 I'S" 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 I'S" 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.

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.

1. HVAC CIRCUIT BREAKERS SHALL BE "HACK" TYPE WHEN REQUIRED BY EQUIPMENT NAMEPLATE PER N.E.C.
2. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXACT K.A.I.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 ES&P PROJECT MANAGER IMMEDIATELY.
3. ELECTRICAL CONTRACTOR SHALL BALANCE ALL PANELS AND ELECTRICAL EQUIPMENT TO 7% (\pm) BETWEEN PHASES: A/B, B/C, A/C, REGARDLESS OF CIRCUITING INDICATED.
4. PROPER CLEARANCE MUST BE MAINTAINED ABOVE ELECTRICAL EQUIPMENT PER N.E.C. 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 WARM QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTING, SERVING OR MAINTENANCE OF EQUIPMENT.
10. ELECTRICAL CONTRACTOR SHALL MAKE SURE ENTIRE INSTALLATION CONFORMS TO ALL N.E.C. & I.E.E. PHASES, IDENTIFICATION, INSTALLATION, AND USE OF EQUIPMENT.



limited brands

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[illegible]

PROJECT INFORMATION: **0105000485**

VICTORIA'S SECRET

CAROLINA PLACE
1025 CAROLINA PLACE PKWY
SPRINGFIELD, NC 28134

SCOPE: REFRESH | PACKAGE: PKG II
DESIGN TYPE: NMA/ANGELS GENERATE# 2013 (R131Sa)/142Fp
LSD#C PROJECT #: 000559286 A/E PROJECT #: 2007684009

ELITE CONSTRUCTION GROUP
LAKE JACKSON, TX
PHONE: 979-285-0712
NOTE: THESE PRINTS HAVE BEEN
REDUCED BY 50 PERCENT. SCALE
WILL BE 50 PERCENT OF WHAT IS
NOTED ON PLANS

DATE ISSUED: 9/26/14
DESIGNED BY: RDW
DRAWN BY: TBA
CHECKED BY: JDM

ELECTRICAL PANELS AND RISER DIAGRAM

DRAWING NUMBER:

E05.01

ELECTRICAL RISER DIAGRAM, PANEL SCHEDULES, AND NOTES