PANEL: LP

SERVICE: 120/ 208 V, 3ϕ, 4W — TYPE: SQ 'D' NQOD M.C.B. WITH SUBFEED LUGS — MAIN: 175 AMP — LOCATION: SEP — RATING: — A.I.C.

CKT NO.	DESCRIPTION	NOTES	C. BKR. A	C. BKR. P	LOAD KVA/PHASE A	LOAD KVA/PHASE B	LOAD KVA/PHASE C	C. BKR. A	C. BKR. B	C. BKR. C	C. BKR. A	C. BKR. P	NOTES	DESCRIPTION	CKT NO.
1	CONV. H @ WELL	REC	20	1	0.18			0.18			20	1	REC	CONV. RECEPT. CT	2
3	CONTROL VALVES	EQ	20	1		1.00			0.36		20	1	REC	CONV. RECEPT. CT	4
5	CONTROL VALVES	EQ	20	1			1.00			0.18	20	1	REC	CONV. RECEPT. CT	6
7	CONV. RECEPT PLANT	REC	20	1	0.18			0.36			20	1	REC	CONV. RECEPT. CT	8
9	CONV. RECEPT PLANT	REC	20	1		0.18			0.36		20	1	REC	CONTROL DESK RECEPT.	10
11	CT-2A CHM INJECTORS	EQ	20	1			0.36			0.50	20	1	EQ	WATER SOFTENER CONTROLLER	12
13	CT-2 LAKEWOOD CONT.	EQ	20	1	0.50			0.18			20	1	REC	CONV. RECEPT. WS	14
15	CHEM. PUMP	EQ	20	1		1.00			0.36		20	1	REC	CONV. RECEPT.	16
17	CONV. RECEPT PLANT	REC	20	1			0.18			1.00	20	2	EQ	FCU	18
19	CHLORINE TANK	EQ	20	1	0.36			1.00			20	2	EQ	FCU	20
21	CONTROL VALVES	EQ	20	1		1.00			11.00		20	2	EQ	FCU	22
23	CONTROL VALVES	EQ	20	1			1.00			1.00	20	2	EQ	FCU	24
25	CONTROL VALVES	EQ	20	1	1.00			1.00			20	2	EQ	FCU	26
27	CONTROL VALVES	EQ	20	1		1.00			1.00		20	2	EQ	FCU	28
29	SYSTEM 10 FLOWMETER	REC	20	1			0.18			1.00	20	1	EQ	CH-1A CONTROL PANEL	30
31	CH-2A TEST	EQ	20	1	0.00			1.00			20	1	EQ	CH-1B CONTROL PANEL	32
33	CH-2B TEST	EQ	20	1		0.00			1.00		20	1	EQ	CH-2A CONTROL PANEL	34
35	CH 1A TEST	EQ	20	1			0.00			1.00	20	1	EQ	CH-2B CONTROL PANEL	36
37	CH 1B TEST	EQ	20	1	0.00			0.50			20	1	EQ	BRINE MAKER	38
39	REFRIGERANT MONITOR	EQ	20	1		0.50			0.00					SPACE	40
41	SPACE						0.00			0.00				SPACE	42
					2.2	4.7	2.7	4.2	14.1	4.7					

	CONNECTED LOAD KVA	DEMAND FACTOR	DEMAND LOAD KVA	MIN N.E.C. LOAD KVA	MIN N.E.C. LOAD AMPS
LIGHTING (LTG)	0.0	1.25	0.0	0.0	
RECEPTACLES (REC)	2.9	*	2.9	2.9	* PER NEC 220-44
A/C (NON COINCID)(AC NC)	0.0	1.0	0.0	0.0	
HTG. (NON COINCID)(H NC)	0.0	1.0	0.0	0.0	
HVAC (COINCID)(HVAC C)	0.0	1.0	0.0	0.0	
MISC. EQUIPMENT (EQ)	29.7	1.0	29.7	29.7	
MOTORS (MTR)	0.0	1.0	0.0	0.0	
LARGEST MTR	0.0	1.25	0.0	0.0	
MISCELLANEOUS (MISC)	0.0	1.0	0.0	0.0	
TOTAL	32.6		32.6	32.6	90.5 AMPS

PANEL: MDP

SERVICE: 277/ 480 V, 3ϕ, 4W — TYPE: SQ 'D' I-LINE — MAIN: 2500 AMP MCB — LOCATION: SEP — RATING: — A.I.C.

CKT NO.	DESCRIPTION	NOTES	C. BKR. A	C. BKR. P	LOAD KVA/PHASE A	LOAD KVA/PHASE B	LOAD KVA/PHASE C	C. BKR. A	C. BKR. B	C. BKR. C	C. BKR. A	C. BKR. P	NOTES	DESCRIPTION	CKT NO.
1	CHWP-1 (VFD)	MTR	400	3	83.60			34.30			200	3	MTR	CT-1A (VFD)	2
3	CHWP-1 (VFD)	MTR				83.60			34.30				MTR	CT-1A (VFD)	4
5	CHWP-1 (VFD)	MTR					83.60			34.30			MTR	CT-1A (VFD)	6
7	CHWP-2 (VFD)	MTR	400	3	83.60			34.30			200	3	MTR	CT-1B (VFD)	8
9	CHWP-2 (VFD)	MTR				83.60			34.30				MTR	CT-1B (VFD)	10
11	CHWP-2 (VFD)	MTR					83.60			34.30			MTR	CT-1B (VFD)	12
13	CWP-1 (STARTER)	MTR	250	3	50.00			34.30			200	3	MTR	CT-2A (VFD)	14
15	CWP-1 (STARTER)	MTR				50.00			34.30				MTR	CT-2A (VFD)	16
17	CWP-1 (STARTER)	MTR					50.00			34.30			MTR	CT-2A (VFD)	18
19	CWP-2 (STARTER)	MTR	250	3	50.00			34.30			200	3	MTR	CT-2B (VFD)	20
21	CWP-2 (STARTER)	MTR				50.00			34.30				MTR	CT-2B (VFD)	22
23	CWP-2 (STARTER)	MTR					50.00			34.30			MTR	CT-2B (VFD)	24
25	PANEL HP	EQ		3	0.00			0.00				3		SPACE	26
27	PANEL HP	EQ				0.00			0.00					SPACE	28
29	PANEL HP	EQ					0.00			0.00				SPACE	30
31	SPACE			3	0.00			0.00				3		SPACE	32
33	SPACE					0.00			0.00					SPACE	34
35	SPACE						0.00			0.00				SPACE	36
37	SPARE			3	0.00			0.00						SPACE	38
39	SPARE					0.00			0.00					SPACE	40
41	SPARE						0.00			0.00				SPACE	42
					267.2	267.2	267.2	137.2	137.2	137.2					

	CONNECTED LOAD KVA	DEMAND FACTOR	DEMAND LOAD KVA	MIN N.E.C. LOAD KVA	MIN N.E.C. LOAD AMPS
LIGHTING (LTG)	0.0	1.25	0.0	0.0	
RECEPTACLES (REC)	0.0	*	0.0	0.0	* PER NEC 220-44
A/C (NON COINCID)(AC NC)	0.0	1.0	0.0	0.0	
HTG (NON COINCID)(H NC)	0.0	1.0	0.0	0.0	
HVAC (COINCID) HVAC C)	0.0	1.0	0.0	0.0	
MISC. EQUIPMENT (EQ)	0.0	1.0	0.0	0.0	
MOTORS (MTR)	893.8	1.0	893.8	893.8	
LARGEST MTR	250.8	1.25	250.8	313.5	
MISCELLANEOUS (MISC)	0.0	1.0	0.0	0.0	
TOTAL	1144.6		1144.6	1207.3	1452.2 AMPS

PANEL: LP1

SERVICE: 120/ 208 V, 3ϕ, 4W — TYPE: SQ 'D' NQOD — MAIN: 225 AMP M.L.O. — LOCATION: SEP — RATING: — A.I.C.

CKT NO.	DESCRIPTION	NOTES	C. BKR. A	C. BKR. P	LOAD KVA/PHASE A	LOAD KVA/PHASE B	LOAD KVA/PHASE C	C. BKR. A	C. BKR. B	C. BKR. C	C. BKR. A	C. BKR. P	NOTES	DESCRIPTION	CKT NO.
1	CONTROL VALVES	EQ	20	1	1.00			2.10			30	2	EQ	WATER HEATER	2
3	CONTROL VALVES	EQ	20	1		1.00			2.10		30	2	EQ	WATER HEATER	4
5	BUILDING CONTROL UNIT (BCU)	EQ	20	1			1.00			0.50	20	1	EQ	CHEMICAL PUMP	6
7	FCU	EQ	20	2	1.00			0.50			20	1	EQ	CHEMICAL PUMP	8
9	FCU	EQ	20	2		1.00			0.50		20	1	EQ	CHEMICAL PUMP	10
11	FCU	EQ	20	2			1.00			1.00	20	1	EQ	CHEM. CONTROL	12
13	FCU	EQ	20	2	1.00			0.00						SPACE	14
15	FCU	EQ	20	2		1.00			0.00					SPACE	16
17	FCU	EQ	20	2			1.00			0.00				SPACE	18
19	BATH LIGHT AND EXH FAN	EQ	20	1	1.00			0.00						SPACE	20
21	REF ALARM PNL HORN STROBE	EQ	20	1		1.00			0.00					SPACE	22
23	SPACE						0.00			0.00				SPACE	24
25	SPACE				0.00			0.00						SPACE	26
27	SPACE					0.00			0.00					SPACE	28
29	SPACE						0.00			0.00				SPACE	30
31	SPACE				0.00			0.00						SPACE	32
33	SPACE					0.00			0.00					SPACE	34
35	SPACE						0.00			0.00				SPACE	36
37	SPACE				0.00			0.00						SPACE	38
39	SPACE					0.00			0.00					SPACE	40
41	SPACE						0.00			0.00				SPACE	42
					4.0	4.0	3.0	2.6	2.6	1.5					

	CONNECTED LOAD KVA	DEMAND FACTOR	DEMAND LOAD KVA	MIN N.E.C. LOAD KVA	MIN N.E.C. LOAD AMPS
LIGHTING (LTG)	0.0	1.25	0.0	0.0	
RECEPTACLES (REC)	0.0	*	0.0	0.0	* PER NEC 220-44
A/C (NON COINCID)(AC NC)	0.0	1.0	0.0	0.0	
HTG. (NON COINCID)(H NC)	0.0	1.0	0.0	0.0	
HVAC (COINCID)(HVAC C)	0.0	1.0	0.0	0.0	
MISC. EQUIPMENT (EQ)	17.7	1.0	17.7	17.7	
MOTORS (MTR)	0.0	1.0	0.0	0.0	
LARGEST MTR	0.0	1.25	0.0	0.0	
MISCELLANEOUS (MISC)	0.0	1.0	0.0	0.0	
TOTAL	17.7		17.7	17.7	49.1 AMPS

PANEL: HP

SERVICE: 277/ 480 V, 3ϕ, 4W — TYPE: SQ 'D' NQOD — MAIN: 225 AMP — LOCATION: SEP — RATING: — A.I.C.

CKT NO.	DESCRIPTION	NOTES	C. BKR. A	C. BKR. P	LOAD KVA/PHASE A	LOAD KVA/PHASE B	LOAD KVA/PHASE C	C. BKR. A	C. BKR. B	C. BKR. C	C. BKR. A	C. BKR. P	NOTES	DESCRIPTION	CKT NO.
1	WELL PUMP (5HP)	MTR	20	3	2.10			1.60			20	2	LTG	WATER TRMT LTG (NOTE 2)	2
3	WELL PUMP (5HP)	MTR				2.10			2.20				LTG	TRANSFRM YARD LTG (NOTE 2)	4
5	WELL PUMP (5HP)	MTR					2.10			0.00				SPARE	6
7	COOLING TOWER LIGHTING	LTG	20	1	1.80			0.00			30	3	MTR	EF	8
9	COOLING TOWER LIGHTING	LTG	20	1		1.80			0.00				MTR	EF	10
11	CORRIDOR LIGHTING	LTG	20	1			0.70			0.00			MTR	EF	12
13	SPACE				0.00			2.00					LTG	BLDG LT (NOTE 2)	14
15	SPACE					0.00			3.00		20	1	LTG	PLANT LTG NORTH	16
17	SPACE						0.00			3.00			LTG	PLANT LTG SOUTH	18
19	SPACE				0.00			0.00						SPACE	20
21	SPACE					0.00			0.00					SPACE	22
23	SPACE						0.00			0.00				SPACE	24
25	SPACE				0.00			0.00						SPACE	26
27	SPACE					0.00			0.00					SPACE	28
29	SPACE						0.00			0.00				SPACE	30
31	SPACE				0.00			0.00						SPACE	32
33	SPACE					0.00			0.00					SPACE	34
35	SPACE						0.00			0.00				SPACE	36
37	SPARE				0.00			15.00			70	3	REC	PANEL 'LP' VIA TRANSFORMER	38
39	SPACE					0.00			15.00				REC	PANEL 'LP' VIA TRANSFORMER	40
41	SPACE						0.00			15.00			REC	PANEL 'LP' VIA TRANSFORMER	42
					3.9	3.9	2.8	18.6	20.2	18.0					

	CONNECTED LOAD KVA	DEMAND FACTOR	DEMAND LOAD KVA	MIN N.E.C. LOAD KVA	MIN N.E.C. LOAD AMPS
LIGHTING (LTG)	16.1	1.25	16.1	20.1	
RECEPTACLES (REC)	45.0	*	27.5	27.5	* PER NEC 220-44
A/C (NON COINCID)(AC NC)	0.0	1.0	0.0	0.0	
HTG (NON COINCID)(H NC)	0.0	1.0	0.0	0.0	
HVAC (COINCID) HVAC C)	0.0	1.0	0.0	0.0	
MISC. EQUIPMENT (EQ)	0.0	1.0	0.0	0.0	
MOTORS (MTR)	0.0	1.0	0.0	0.0	
LARGEST MTR	6.3	1.25	6.3	7.9	
MISCELLANEOUS (MISC)	0.0	1.0	0.0	0.0	
TOTAL	67.4		49.9	55.5	66.8 AMPS

NOTES:
(1) FUTURE PROJECTED LOAD. VERIFY EXACT LOAD UPON INSTALLATION OF LIGHTING FIXTURES.
(2) PROVIDE PHOTOCELL FOR CONTROL.

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SEAL

RICHARD L. HOCUTT, P.E.
FL. LIC. No. 67155

Signature Date

DRAWING REVISIONS

REVISION	COMMENTS:
1	
2	
3	
4	
5	
6	

UNIVERSITY OF SOUTH FLORIDA
SOUTH EAST CHILLER PLANT
BR-590 COMPONENT #6
12225 USF MAPLE DRIVE
TAMPA, FLORIDA 33620

DRAWING TITLE :
PANEL SCHEDULES

Drawing Progress: 100% CONSTRUCTION DOCUMENTS

FILE NAME:	081106_E-6-7.DWG
DATE:	03-31-2009
PLOT SIZE:	NOT TO SCALE
CADDED BY:	SRN
DESIGNED BY:	SCC
CHECKED BY:	SRN

PROJECT NO.
081106

SHEET NO.
E-7
7 OF 7

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