PANEL SCHEDULE ~ PP32							
SIEMENS TYPE P2 PANELBOARD TO MATCH EXISTING							
VOLTAGE: 208/120V						AIC: 10KA	
3-PHASE, 4-WIRE							
CIRCUIT BREAKER				CIRCUIT LOAD (KVA) CONNECTED			BRANCH CIRCUIT DESCRIPTION
CKT NO	BRKR SIZE	NO OF POLES	PH	A	B	C	
1	20	1	A	0.72			REC - C393
3	20	1	B		0.72		REC - C393
5	20	1	C			0.36	REC - C393
7	20	1	A	0.54			REC - C393
9	20	1	B		0.72		REC - C393
11	20	1	C			0.72	REC - C393
13	20	1	A	0.54			REC - C393
15	20	1	B		0.72		REC - C393
17	20	1	C			0.00	SPARE
19	20	1	A	0.00			SPARE
21	20	1	B		0.00		SPARE
23	20	1	C			0.00	SPARE
25	20	1	A	0.00			SPARE
27	20	1	B		0.00	0.00	SPARE
29	20	1	C			0.00	SPARE
SUBTOTAL				1.80	2.16	1.08	
2	30	3	A	3.98			AUTOCLAVE
4			B		3.98		
6			C			3.98	
8	20	1	A	0.36			REC - C393
10	20	1	B		0.72		REC - C393A
12	20	1	C			0.54	REC - C393A
14	20	1	A	1.86			BIO SAFETY CABINET #1
16	20	1	B		1.72		BIO SAFETY CABINET #2
18	20	1	C			1.92	FUME HOOD
20	20	1	A	0.00			SPARE
22	20	1	B		0.00		SPARE
24	20	1	C			0.00	SPARE
26	20	1	A	0.00			SPARE
28	20	1	B		0.00		SPARE
30	20	1	C			0.00	SPARE
SUBTOTAL				6.20	6.42	6.44	

EXISTING PANEL SCHEDULE ~ DP3							
VOLTAGE: 480/277V						AIC:10KAIC	
3-PHASE, 4-WIRE							
CIRCUIT BREAKER				CIRCUIT LOAD (KVA) CONNECTED			BRANCH CIRCUIT DESCRIPTION
CKT NO	BRKR SIZE	NO OF POLES	PH	A	B	C	
1	20	1	A	0.60			LTG - C394
3	20	1	B		0.70		LTG - C394
5	20	1	C			0.65	LTG - C395,C396,C380B
7	**20**	**1**	A	**0.60**			**LTG - C393 & C393A**
9	20	1	B		0.00		SPARE
11	20	1	C			0.00	SPARE
13	20	1	A	0.00			SPARE
15	20	1	B		0.00		SPARE
17	20	1	C			0.00	SPARE
19	20	1	A	0.00			SPARE
21	20	1	B		0.00		SPARE
23	20	1	C			0.00	SPARE
25	20	1	A	0.00			SPARE
27	20	1	B		0.00		SPARE
29	20	1	C			0.00	SPARE
31	20	1	A	0.00			SPARE
33	20	1	B		0.00		SPARE
35	20	1	C			0.00	SPARE
37	20	1	A	0.00			SPARE
39	20	1	B		0.00		SPARE
41	20	1	C			0.00	SPARE
SUBTOTAL				1.20	0.70	0.65	
2	20	1	A	0.00			SPARE
4	20	1	B		0.00		SPARE
6	20	1	C			0.00	SPARE
8	20	1	A	0.00			SPARE
10	20	1	B		0.00		SPARE
12	20	1	C			0.00	SPARE
14	20	1	A	0.00			SPARE
16	20	1	B		0.00		SPARE
18	20	1	C			0.00	SPARE
20	20	1	A	0.00			SPARE
22	20	1	B		0.00		SPARE
24	20	1	C			0.00	SPARE
26	20	1	A	0.00			SPARE
28	20	1	B		0.00		SPARE
30	20	1	C			0.00	SPARE
32	20	1	A	0.00			SPARE
34	20	1	B		0.00		SPARE
36	20	1	C			0.00	SPARE
38	125	3	A	13.10			PP31 VIA TRANSFORMER
40			B		13.72		
42			C			12.20	
SUBTOTAL				13.10	13.72	12.20	

SHADING INDICATES EXISTING CIRCUIT TO REMAIN, TYPICAL

EXISTING PANEL SCHEDULE ~ EPP3							
VOLTAGE: 208/120V						AIC: 10KA	
3-PHASE, 4-WIRE							
CIRCUIT BREAKER				CIRCUIT LOAD (KVA) CONNECTED			BRANCH CIRCUIT DESCRIPTION
CKT NO	BRKR SIZE	NO OF POLES	PH	A	B	C	
1	20	1	A	1.44			80 ULTRALOW FREEZER
3	20	1	B		0.48		20F FREEZER
5	20	1	C			0.60	REFRIGERATOR
7	20	1	A	0.60			REFRIGERATOR
9	20	1	B		1.20		XRF
11	20	1	C			1.44	FUME HOOD FH-1 POWER
13	20	1	A	0.54			REC - C394
15	20	1	B		1.44		FUME HOOD FH-2 POWER
17	20	1	C			0.36	REC - C394
19	20	1	A	1.44			FUME HOOD FH-3 POWER
21	20	1	B		1.20		BSC-1 SAFETY CABINET C395
23	20	1	C			1.44	FUME HOOD FH-4 POWER
25	20	1	A	0.00			BMS CIRCUIT
27	20	1	B		1.20	0.00	BIOSAFETY CABINET
29	20	1	C			0.36	REC - C394, C395
SUBTOTAL				4.02	5.52	4.20	
2	20	1	A	0.18			REC - ELECTRICAL ROOM
4	20	1	B		0.00		EXISTING BRANCH CIRCUIT
6	**20**	**1**	C			**1.68**	**LIGHTED INCUBATOR**
8	**20**	**1**	A	**1.68**			**LIGHTED INCUBATOR**
10	**20**	**1**	B		**0.00**		**REFRIG. WITH FREEZER**
12	**20**	**1**	C			**1.90**	**-70 FREEZER**
14	20	1	A	**0.00**			**-20 UC FREEZER**
16	20	1	B		0.00		SPARE
18	20	1	C			0.00	SPARE
20	20	1	A	0.00			SPARE
22	20	1	B		0.00		SPARE
24	20	1	C			0.00	SPARE
26	20	1	A	0.00			SPARE
28	20	1	B		0.00		SPARE
30	20	1	C			0.00	SPARE
SUBTOTAL				1.86	0.00	3.58	

(1) CONNECT PANEL PP32 TO EXISTING PANEL PP31 USING (4) #2 + (1) #8 G IN 1-1/4" C. PROVIDE A 100A, 3P SIEMENS CIRCUIT BREAKER TO MATCH EXISTING AT CIRCUITS PP31-68, 70, 72.

0 2' 4' 8'
Scale: 1/4" = 1'-0"

A1	POWER PLAN
SCALE: 1/4"=1'-0"	

A9	POWER KEYED NOTES
NO SCALE	

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CATHERINE A. FAUCHER
No. 7241
LICENSED PROFESSIONAL ENGINEER

REVISIONS

NUMBER	DATE	BY	DESCRIPTION

Date: 3/28/2014
Drawn By: GMC
Checked By: SRM
Project Mgr: IAM
Project No: 14003
Cad File: 14003E.DWG
Graphic Scale: 0 1"

POWER AND SYSTEMS PLAN

UNIVERSITY OF SOUTHERN MAINE BIO-SCIENCE
~ 3rd FLOOR LAB FIT-UP
PORTLAND, MAINE

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EP-100

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