

Lindsay Rekuc
 Virginia Commonwealth University Life Sciences Building
 Richmond, VA



Appendix B

Existing Panelboards

PANELBOARD SCHEDULE													
VOLTAGE: 480			PANEL TAG: N12C				MIN. C/B AIC: 14K						
SIZE/TYPE BUS: 225A COPPER			PANEL LOCATION: 1st Floor				OPTIONS: PROVIDE FEED THROUGH LUGS FOR PANELBOARD N12C						
SIZE/TYPE MAIN: 225A/3P MCB			PANEL MOUNTING: SURFACE										
DESCRIPTION	LOCATION	LOAD (WATTS)	C/B SIZE	POS. NO.	A	B	C	POS. NO.	C/B SIZE	LOAD (WATTS)	LOCATION	DESCRIPTION	
Lighting	ELEC. RM 115	2385	20A/1P	1	*			2	20A/1P	2795	HUM. ANAT. 131	Lighting	
Lighting	FR. BIO 120	2795	20A/1P	3		*		4	20A/1P	808	PREP. 132	Lighting	
Lighting	ESC. CNTR. 12	1588	20A/1P	5			*	6	20A/1P	2795	HUM. ANAT. 130	Lighting	
Lighting	COR. 128	1078	20A/1P	7	*			8	20A/1P	808	PREP. 123	Lighting	
Lighting	OFFICE 118	1347	20A/1P	9		*		10	20A/1P	2795	ENV. SCI. 127	Lighting	
Lighting	OFFICE 111	2223	20A/1P	11			*	12	20A/1P	2795	FR. BIO 123	Lighting	
Lighting	OFFICE 107	1920	20A/1P	13	*			14	20A/1P	2795	FR. BIO 121	Lighting	
Lighting	STOR. 104B	2021	20A/1P	15		*		16	20A/1P	2795	FR. BIO 117	Lighting	
Lighting	VEST. 110	901	20A/1P	17			*	18	20A/1P	808	PREP. 119	Lighting	
Lighting	SERVICE 114	800	20A/1P	19	*			20	20A/1P	0		Spare	
Equipment	W MELTING CA	15734	20A/1P	21		*		22	20A/1P	0		Spare	
Equipment	W MELTING CA	13213	20A/1P	23			*	24	20A/1P	0		Spare	
Equipment	W MELTING CA	10665	20A/1P	25	*			26	-	0		Space	
Equipment	W MELTING CA	5291	20A/1P	27		*		28	-	0		Space	
Space		0	-	29			*	30	-	0		Space	
Space		0	-	31	*			32	-	0		Space	
Space		0	-	33		*		34	-	0		Space	
Space		0	-	35			*	36	-	0		Space	
Sub	3kVA XFMR N11	7788	70A/3P	37	*			38	-	0		Space	
Sub	3kVA XFMR N11	5808	-	39		*		40	-	0		Space	
Sub	3kVA XFMR N11	4356	-	41			*	42	-	0		Space	
CONNECTED LOAD (KW) - A		31.03							TOTAL DESIGN LOAD (KW)		38.79		
CONNECTED LOAD (KW) - B		39.39							POWER FACTOR		1.00		
CONNECTED LOAD (KW) - C		24.32							TOTAL DESIGN LOAD (AMPS)		47		

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PANELBOARD SCHEDULE													
VOLTAGE: 2			PANEL TAG: N22C					MIN. C/B AIC: 14K					
SIZE/TYPE BUS: 100A COPPER			PANEL LOCATION: 2nd Floor					OPTIONS: PROVIDE FEED THROUGH LUGS					
SIZE/TYPE MAIN: 100A/3P MCB			PANEL MOUNTING: SURFACE					FOR PANELBOARD N22C					
DESCRIPTION	LOCATION	LOAD (WATTS)	C/B SIZE	POS. NO.	A	B	C	POS. NO.	C/B SIZE	LOAD (WATTS)	LOCATION	DESCRIPTION	
Lighting	ELEC. RM 215	2139	20A/1P	1	*			2	20A/1P	2795	QUATICS BIO. 21	Lighting	
Lighting	OFFICE 223	1549	20A/1P	3		*		4	20A/1P	808	PREP. 228	Lighting	
Lighting	STUDY 216	1999	20A/1P	5			*	6	20A/1P	2799	ECOLOGY 226	Lighting	
Lighting	S. & BIOMED.	2795	20A/1P	7	*			8	20A/1P	808	PREP. 229	Lighting	
Lighting	OFFICE 217	1549	20A/1P	9		*		10	20A/1P	2795	PLANT BIO. 231	Lighting	
Lighting	GENETICS 211	2795	20A/1P	11			*	12	20A/1P	2795	HISTOLOGY 227	Lighting	
Lighting	PREP. 209	808	20A/1P	13	*			14	20A/1P	2795	COMP. ANAT. 22	Lighting	
Lighting	MOLEC. BIO 20	2795	20A/1P	15		*		16	20A/1P	2795	BEHAV. 220	Lighting	
Lighting	EC. BIO PREP.	1347	20A/1P	17			*	18	20A/1P	808	LAB SUPPORT 23	Lighting	
Lighting	STORAGE 208B	801	20A/1P	19	*			20	20A/1P	808	BEHAV. 220	Lighting	
Lighting	REP. 220 (ALT	808	20A/1P	21		*		22	20A/1P	808	MICRO. 204	Lighting	
Lighting	STAIR S203	1597	20A/1P	23			*	24	20A/1P	2795	MICRO. 204	Lighting	
Spare		0	20A/1P	25	*			26	20A/1P	0		Spare	
Spare		0	20A/1P	27		*		28	20A/1P	0		Spare	
Spare		0	20A/1P	29			*	30	20A/1P	0		Spare	
Space		0	-	31	*			32	-	0		Space	
Space		0	-	33		*		34	-	0		Space	
Space		0	-	35			*	36	-	0		Space	
Space		0	-	37	*			38	-	0		Space	
Space		0	-	39		*		40	-	0		Space	
Space		0	-	41			*	42	-	0		Space	
CONNECTED LOAD (KW) - A		13.75							TOTAL DESIGN LOAD (KW)		50.83		
CONNECTED LOAD (KW) - B		13.91							POWER FACTOR		1.00		
CONNECTED LOAD (KW) - C		16.94							TOTAL DESIGN LOAD (AMPS)		61		

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PANELBOARD SCHEDULE												
VOLTAGE: 480			PANEL TAG: E12C				MIN. C/B AIC: 14K					
SIZE/TYPE BUS: 100A COPPER			PANEL LOCATION: 1st Floor				OPTIONS: PROVIDE FEED THROUGH LUGS					
SIZE/TYPE MAIN: 50A/3P MCB			PANEL MOUNTING: SURFACE				FOR PANELBOARD E12C					
DESCRIPTION	LOCATION	LOAD (WATTS)	C/B SIZE	POS. NO.	A	B	C	POS. NO.	C/B SIZE	LOAD (WATTS)	LOCATION	DESCRIPTION
Lighting	CORR. C102	1676	20A/1P	1	*			2	20A/1P	0	0	Spare
Lighting	PREP. 132	674	20A/1P	3		*		4	20A/1P	640	CONF. 116	Lighting
Lighting	FR. BIO 117	943	20A/1P	5			*	6	20A/1P	404	OFFICE 111	Lighting
Spare		0	20A/1P	7	*			8	20A/1P	0		Spare
Spare		0	20A/1P	9		*		10	-	0		Spare
Spare		0	-	11			*	12	-	0		Spare
Spare		0	-	13	*			14	-	0		Spare
Spare		0	-	15		*		16	-	0		Spare
Spare		0	-	17			*	18	-	0		Spare
Spare		0	-	19	*			20	-	0		Spare
Spare		0	-	21		*		22	-	0		Spare
Spare		0	-	23			*	24	-	0		Spare
		0		25	*			26		0		
		0		27		*		28		0		
		0		29			*	30		0		
		0		31	*			32		0		
		0		33		*		34		0		
		0		35			*	36		0		
		0		37	*			38		0		
		0		39		*		40		0		
		0		41			*	42		0		
CONNECTED LOAD (kW) - A		1.68							TOTAL DESIGN LOAD (kW)		4.88	
CONNECTED LOAD (kW) - B		1.31							POWER FACTOR		1.00	
CONNECTED LOAD (kW) - C		1.35							TOTAL DESIGN LOAD (AMPS)		6	

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PANELBOARD SCHEDULE													
VOLTAGE: 480			PANEL TAG: E22C						MIN. C/B AIC: 14K				
SIZE/TYPE BUS: 100A COPPER			PANEL LOCATION: 2nd Floor						OPTIONS: PROVIDE FEED THROUGH LUGS				
SIZE/TYPE MAIN: 50A/3P MCB			PANEL MOUNTING: SURFACE						FOR PANELBOARD 1L1B				
DESCRIPTION	LOCATION	LOAD (WATTS)	C/B SIZE	POS. NO.	A	B	C	POS. NO.	C/B SIZE	LOAD (WATTS)	LOCATION	DESCRIPTION	
Lighting	CORR. C201	1152	20A/1P	1	*			2	20A/1P	885	BB&E LAB S203	Lighting	
Lighting	PREP. 220A	741	20A/1P	3		*		4	20A/1P	943	ST. LAB. 219	Lighting	
Lighting	PREP. 228	472	20A/1P	5			*	6	20A/1P	876	GENETICS 211	Lighting	
Spare		0	20A/1P	7	*			8	20A/1P	0		Spare	
Spare		0	20A/1P	9		*		10	20A/1P	0		Spare	
Spare		0	20A/1P	11			*	12	20A/1P	0		Spare	
Space		0	-	13	*			14	-	0		Space	
Space		0	-	15		*		16	-	0		Space	
Space		0	-	17			*	18	-	0		Space	
Space		0	-	19	*			20	-	0		Space	
Space		0	-	21		*		22	-	0		Space	
Space		0	-	23			*	24	-	0		Space	
		0		25	*			26		0			
		0		27		*		28		0			
		0		29			*	30		0			
		0		31	*			32		0			
		0		33		*		34		0			
		0		35			*	36		0			
		0		37	*			38		0			
		0		39		*		40		0			
		0		41			*	42		0			
CONNECTED LOAD (KW) - A		2.04							TOTAL DESIGN LOAD (KW)		6.34		
CONNECTED LOAD (KW) - B		1.68							POWER FACTOR		1.00		
CONNECTED LOAD (KW) - C		1.35							TOTAL DESIGN LOAD (AMPS)		8		

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Modified Panelboards

PANELBOARD SCHEDULE												
VOLTAGE: 480			PANEL TAG: N12C				MIN. C/B AIC: 14K					
SIZE/TYPE BUS: 100A COPPER			PANEL LOCATION: 1st Floor				OPTIONS: PROVIDE FEED THROUGH LUGS FOR PANELBOARD N12C					
SIZE/TYPE MAIN: 50A/3P MCB			PANEL MOUNTING: SURFACE									
DESCRIPTION	LOCATION	LOAD (WATTS)	C/B SIZE	POS. NO.	A	B	C	POS. NO.	C/B SIZE	LOAD (WATTS)	LOCATION	DESCRIPTION
Lighting	ELEC. RM 115	1994	20A/1P	1	*			2	20A/1P	2795	HUM. ANAT. 131	Lighting
Lighting	FR. BIO 120	2795	20A/1P	3		*		4	20A/1P	808	PREP. 132	Lighting
Lighting	ESC. CNTR. 12	1588	20A/1P	5			*	6	20A/1P	2795	HUM. ANAT. 130	Lighting
Lighting	COR. 128	1078	20A/1P	7	*			8	20A/1P	808	PREP. 123	Lighting
Lighting	OFFICE 118	1347	20A/1P	9			*	10	20A/1P	2795	ENV. SCI. 127	Lighting
Lighting	OFFICE 111	2223	20A/1P	11			*	12	20A/1P	2795	FR. BIO 123	Lighting
Lighting	OFFICE 107	1920	20A/1P	13	*			14	20A/1P	2795	FR. BIO 121	Lighting
Lighting	STOR. 104B	2021	20A/1P	15			*	16	20A/1P	2795	FR. BIO 117	Lighting
Lighting	VEST. 110	901	20A/1P	17			*	18	20A/1P	808	PREP. 119	Lighting
Lighting	SERVICE 114	800	20A/1P	19	*			20	20A/1P	0		Spare
Equipment	W MELTING C/	15734	20A/1P	21		*		22	20A/1P	0		Spare
Equipment	W MELTING C/	13213	20A/1P	23			*	24	20A/1P	0		Spare
Equipment	W MELTING C/	10665	20A/1P	25	*			26	-	0		Space
Equipment	W MELTING C/	5291	20A/1P	27		*		28	-	0		Space
Space		0	-	29			*	30	-	0		Space
Space		0	-	31	*			32	-	0		Space
Space		0	-	33		*		34	-	0		Space
Space		0	-	35			*	36	-	0		Space
Sub	5kVA XFMR N11	7788	70A/3P	37	*			38	-	0		Space
Sub	5kVA XFMR N11	5808	-	39		*		40	-	0		Space
Sub	5kVA XFMR N11	4356	-	41			*	42	-	0		Space
CONNECTED LOAD (KW) - A		30.64							TOTAL DESIGN LOAD (KW)		38.37	
CONNECTED LOAD (KW) - B		39.39							POWER FACTOR		1.00	
CONNECTED LOAD (KW) - C		24.32							TOTAL DESIGN LOAD (AMPS)		46	

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PANELBOARD SCHEDULE												
VOLTAGE: 2			PANEL TAG: N22C				MIN. C/B AIC: 14K					
SIZE/TYPE BUS: 100A COPPER			PANEL LOCATION: 2nd Floor				OPTIONS: PROVIDE FEED THROUGH LUGS					
SIZE/TYPE MAIN: 60A/3P MCB			PANEL MOUNTING: SURFACE				FOR PANELBOARD N22C					
DESCRIPTION	LOCATION	LOAD (WATTS)	C/B SIZE	POS. NO.	A	B	C	POS. NO.	C/B SIZE	LOAD (WATTS)	LOCATION	DESCRIPTION
Lighting	ELEC. RM 215	2139	20A/1P	1	*			2	20A/1P	2795	QUATICS BIO. 21	Lighting
Lighting	OFFICE 223	1549	20A/1P	3		*		4	20A/1P	808	PREP. 228	Lighting
Lighting	STUDY 216	1999	20A/1P	5			*	6	20A/1P	2799	ECOLOGY 226	Lighting
Lighting	VS. & BIOMED.	2795	20A/1P	7	*			8	20A/1P	808	PREP. 229	Lighting
Lighting	OFFICE 217	1549	20A/1P	9		*		10	20A/1P	2795	PLANT BIO. 231	Lighting
Lighting	GENETICS 211	126	20A/1P	11			*	12	20A/1P	2852	HISTOLOGY 227	Lighting
Lighting	PREP. 209	808	20A/1P	13	*			14	20A/1P	2795	COMP. ANAT. 22	Lighting
Lighting	MOLEC. BIO 20	2795	20A/1P	15		*		16	20A/1P	2795	BEHAV. 220	Lighting
Lighting	EC. BIO PREP	1347	20A/1P	17			*	18	20A/1P	808	LAB SUPPORT 23	Lighting
Lighting	STORAGE 208E	801	20A/1P	19	*			20	20A/1P	808	BEHAV. 220	Lighting
Lighting	REP. 220 (ALT	808	20A/1P	21		*		22	20A/1P	808	MICRO. 204	Lighting
Lighting	STAIR S203	1366	20A/1P	23			*	24	20A/1P	2795	MICRO. 204	Lighting
Spare		0	20A/1P	25	*			26	20A/1P	0		Spare
Spare		0	20A/1P	27		*		28	20A/1P	0		Spare
Spare		0	20A/1P	29			*	30	20A/1P	0		Spare
Space		0	-	31	*			32	-	0		Space
Space		0	-	33		*		34	-	0		Space
Space		0	-	35			*	36	-	0		Space
Space		0	-	37	*			38	-	0		Space
Space		0	-	39		*		40	-	0		Space
Space		0	-	41			*	42	-	0		Space
CONNECTED LOAD (KW) - A		13.75							TOTAL DESIGN LOAD (KW)		47.59	
CONNECTED LOAD (KW) - B		13.91							POWER FACTOR		1.00	
CONNECTED LOAD (KW) - C		14.09							TOTAL DESIGN LOAD (AMPS)		57	

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PANELBOARD SCHEDULE

VOLTAGE: 480		PANEL TAG: E12C				MIN. C/B AIC: 14K							
SIZE/TYPE BUS: 100A COPPER		PANEL LOCATION: 1st Floor				OPTIONS: PROVIDE FEED THROUGH LUGS FOR PANELBOARD E12C							
SIZE/TYPE MAIN: 50A/3P MCB		PANEL MOUNTING: SURFACE											
DESCRIPTION	LOCATION	LOAD (WATTS)	C/B SIZE	POS. NO.	A	B	C	POS. NO.	C/B SIZE	LOAD (WATTS)	LOCATION	DESCRIPTION	
Lighting	CORR. C102	1572	20A/1P	1	*			2	20A/1P	0	0	Spare	
Lighting	PREP. 132	674	20A/1P	3		*		4	20A/1P	640	CONF. 116	Lighting	
Lighting	FR. BIO 117	943	20A/1P	5			*	6	20A/1P	404	OFFICE 111	Lighting	
Spare		0	20A/1P	7	*			8	20A/1P	0		Spare	
Spare		0	20A/1P	9		*		10	-	0		Space	
Space		0	-	11			*	12	-	0		Space	
Space		0	-	13	*			14	-	0		Space	
Space		0	-	15		*		16	-	0		Space	
Space		0	-	17			*	18	-	0		Space	
Space		0	-	19	*			20	-	0		Space	
Space		0	-	21		*		22	-	0		Space	
Space		0	-	23			*	24	-	0		Space	
		0		25	*			26		0			
		0		27		*		28		0			
		0		29			*	30		0			
		0		31	*			32		0			
		0		33		*		34		0			
		0		35			*	36		0			
		0		37	*			38		0			
		0		39		*		40		0			
		0		41			*	42		0			
CONNECTED LOAD (kW) - A		1.57					TOTAL DESIGN LOAD (kW)				4.76		
CONNECTED LOAD (kW) - B		1.31					POWER FACTOR				1.00		
CONNECTED LOAD (kW) - C		1.35					TOTAL DESIGN LOAD (AMPS)				6		

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PANELBOARD SCHEDULE

VOLTAGE: 480		PANEL TAG: E22C				MIN. C/B AIC: 14K						
SIZE/TYPE BUS: 100A COPPER		PANEL LOCATION: 2nd Floor				OPTIONS: PROVIDE FEED THROUGH LUGS FOR PANELBOARD 1L1B						
SIZE/TYPE MAIN: 50A/3P MCB		PANEL MOUNTING: SURFACE										
DESCRIPTION	LOCATION	LOAD (WATTS)	C/B SIZE	POS. NO.	A	B	C	POS. NO.	C/B SIZE	LOAD (WATTS)	LOCATION	DESCRIPTION
Lighting	CORR. C201	938	20A/1P	1	*			2	20A/1P	850	BB&E LAB S203	Lighting
Lighting	PREP. 220A	741	20A/1P	3		*		4	20A/1P	943	ST. LAB. 219	Lighting
Lighting	PREP. 228	472	20A/1P	5			*	6	20A/1P	1764	GENETICS 211	Lighting
Spare		0	20A/1P	7	*			8	20A/1P	0		Spare
Spare		0	20A/1P	9		*		10	20A/1P	0		Spare
Spare		0	20A/1P	11			*	12	20A/1P	0		Spare
Space		0	-	13	*			14	-	0		Space
Space		0	-	15		*		16	-	0		Space
Space		0	-	17			*	18	-	0		Space
Space		0	-	19	*			20	-	0		Space
Space		0	-	21		*		22	-	0		Space
Space		0	-	23			*	24	-	0		Space
		0	-	25	*			26	-	0		
		0	-	27		*		28	-	0		
		0	-	29			*	30	-	0		
		0	-	31	*			32	-	0		
		0	-	33		*		34	-	0		
		0	-	35			*	36	-	0		
		0	-	37	*			38	-	0		
		0	-	39		*		40	-	0		
		0	-	41			*	42	-	0		
CONNECTED LOAD (KW) - A		1.79							TOTAL DESIGN LOAD (KW)		7.14	
CONNECTED LOAD (KW) - B		1.68							POWER FACTOR		0.99	
CONNECTED LOAD (KW) - C		2.24							TOTAL DESIGN LOAD (AMPS)		9	

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