

PANEL "154 NDEC2"

VOLTS/PHASE/WIRE:
120/208 V, 3 PH 4 WIRE

ACCESSORIES:

PANEL SIZE & TYPE:
22" W x 6" D, BOLT-ON

PANEL DIRECTORY, IDENTIFICATION, GROUNDING

MAIN SIZE & TYPE:
400 AMPERE MAIN LUGS

BAR, INSULATED

LOCATION:
MAIN ELECTRICAL ROOM

GROUND BAR, SUBFUSED LUGS

CABINET:
SURFACE

NOTES:
NEW

CKT NO	OCP		LOAD (kVA)			DESCRIPTION	LCL PHASE LOAD			LCL kVA	DESCRIPTION			LOAD (kVA)			OCP		CKT NO
	AMP	POLE	LTG	CO	PWR		A	B	C		LTG	CO	PWR	AMP	POLE				
1	200	3				EX. PANEL	0.0	0.0			SPARE						225	3	2
3	—	—				154-3EC1/ 154-4EC1	0.0	0.0									—	—	4
5	—	—				(NOTE 1)	0.0			0.0							—	—	6
7	225	3				SPARE	0.0	0.0			SPARE						225	3	8
9	—	—					0.0			0.0							—	—	10
11	—	—					0.0			0.0							—	—	12
13	—	—				SPACE	0.0	0.0			SPACE						—	—	14
15	—	—				SPACE	0.0	0.0			SPACE						—	—	16
17	—	—				SPACE	0.0			0.0	SPACE						—	—	18
19	—	—				SPACE	0.0	0.0			SPACE						—	—	20
21	—	—				SPACE	0.0	0.0			SPACE						—	—	22
23	—	—				SPACE	0.0			0.0	SPACE						—	—	24
25	—	—				SPACE	0.0	0.0			SPACE						—	—	26
27	—	—				SPACE	0.0	0.0			SPACE						—	—	28
29	—	—				SPACE	0.0			0.0	SPACE						—	—	30
31	—	—				SPACE	0.0	0.0			SPACE						—	—	32
33	—	—				SPACE	0.0	0.0			SPACE						—	—	34
35	—	—				SPACE	0.0			0.0	SPACE						—	—	36
37	—	—				SPACE	0.0	0.0			SPACE						—	—	38
39	—	—				SPACE	0.0			0.0	SPACE						—	—	40
41	—	—				SPACE	0.0	0.0			SPACE						—	—	42

TOTALS:

CONNECTED kVA PER PHASE

000

CONNECTED TOTAL kVA

0

CONNECTED AMPS PER PHASE

000

CONNECTED AVERAGE AMPS PER PHASE

0

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING OKVA @125% =

0 kVA

ALL OTHER LOADS @100% =

0 kVA

DIVERSIFIED TOTAL kVA =

0

RECEPTACLES OKVA @100% =

0 kVA

25% OF LARGEST MOTOR =

0 kVA

AVERAGE AMPS PER PHASE =

0

REMAINDER OKVA @ 50% =

0 kVA

NOTES LEGEND:

1. RECIRCUIT EXISTING PANELS FROM EXISTING PANEL "154-DEC" TO NEW PANEL "154-NDEC2" AS INDICATED. REFER TO ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.

PANEL "154-LAB1"

VOLTS/PHASE/WIRE:					PANEL SIZE & TYPE:					MAIN SIZE & TYPE:					LOCATION:					CABINET:					NOTES:									
120/208 V, 3 PH 4 WIRE					22" W X 6" D BOLT-ON					225 AMPERE MAIN LUGS					LAB ELECTRICAL ROOM					SURFACE														
ACCESSORIES:					PANEL DIRECTORY, IDENTIFICATION, GROUNDING					BAR, INSULATED					GROUND BAR, SUBFEED LUGS, 22,000 A.I.C.																			
CKT NO	OCF	AMP	POLE	LOAD (kVA)	LTG	CO	PWR	DESCRIPTION					LCL kVA	PHASE LOAD				LCL kVA	DESCRIPTION					LOAD (kVA)			OCF	POLE	CKT NO					
1	20	1	1	1.2				CONFERENCE ROOM REC.					1.2	2.6			1.8	STORAGE LIGHTING					1.4	LTG	CO	PWR	20	1	2					
3	20	1	1	1.0				PHLEB/BATH RECEPT.					1.0		2.7			2.1	LOCKER/BREAK RM. LTG.					1.7				20	1	4				
5	20	1	1	1.6				RECEPTION/STORAGE REC.					1.6				3.1	1.9	CORRIDOR LIGHTING					1.5				20	1	6				
7	20	1	1	1.6				LOCKER ROOM RECEPT.					1.6	2.8				1.5	CONFERENCE/OFFICE LTG.					1.2				20	1	8				
9	20	1	1	1.2				STAFF LOUNGE RECEPT.					1.2		2.2			1.3	OFFICE/BATH LTG.					1.0				20	1	10				
11	20	1	1				1.5	REFRIGERATOR					1.5				2.5	1.3	LAB UNDERCABINET LTG.					1.0				20	1	12				
13	20	1	1				1.5	MICROWAVE					1.5	2.4				1.1	OFFICE LIGHTING					0.9				20	1	14				
15	20	1	1	0.2				KITCHEN RECEPT.					0.2		1.3			1.4	LAB LIGHTING					1.1				20	1	16				
17	20	1	1	0.2				KITCHEN RECEPT.					0.2				1.5	1.6	LAB LIGHTING					1.3				20	1	18				
19	20	1	1	1.6				OFFICE RECEPT.					1.6	2.9				1.6	LAB LIGHTING					1.3				20	1	20				
21	20	1	1	1.6				OFFICE RECEPT.					1.6		2.4			1.0	LAB LIGHTING					0.8				20	1	22				
23	20	1	1	1.6				OFFICE RECEPT.					1.6				3.2	2.0	LAB LIGHTING					1.6				20	1	24				
25	20	1	1	0.2				BATH RECEPT.					0.2	1.5				1.6	LAB LIGHTING					1.3				20	1	26				
27	20	1	1	1.4				CORRIDOR/LAB RECEPT.					1.4		2.2			0.8	LAB RECEPT.						0.8			20	1	28				
29	20	1	1	1.2				CORRIDOR/LAB RECEPT.					1.2				1.7	0.5	FAN COIL UNIT							0.5		20	1	30				
31	20	1	1	0.2				TANK ROOM RECEPT.					0.2	0.4			0.2	ELEC. ROOM RECEPT.						0.2			20	1	32					
33	20	1	1	0.4				TELE/ DATA ROOM RECEPT.					0.4		0.9			0.5	TERMINAL BOX CONTROLS						0.5			20	1	34				
35	20	1	1	0.4				TELE/ DATA ROOM RECEPT.					0.4				0.9	0.5	TERMINAL BOX CONTROLS						0.5			20	1	36				
37	20	1	1	1.6				OFFICE /LAB RECEPT.					1.6	2.1				0.5	TERMINAL BOX CONTROLS						0.5			20	1	38				
39	20	1	1	1.6				OFFICE RECEPT.					1.6		2.8			1.2	XYLENE RECYCLER						1.2			20	1	40				
41	20	1	1	1.4				CORR./MECH. RECEPT.					1.4				1.8	0.5	MECH. ROOM LIGHTING					0.4				20	1	42				
43	20	1	1					SPARE					0.0	0.0				0.0	SPARE									20	1	44				
45	20	1	1					SPARE					0.0				0.0	0.0	SPARE									20	1	46				
47	20	1	1					SPARE					0.0				0.0	0.0	SPARE									20	1	48				
49	20	1	1					SPARE					0.0	0.0				0.0	SPARE									20	1	50				
51	20	1	1					SPARE					0.0				0.0	0.0	SPARE									20	1	52				
53	20	1	1					SPARE					0.0				0.0	0.0	SPARE									20	1	54				
55	20	1	1					SPARE					0.0	0.0				0.0	SPARE									20	1	56				
57	20	1	1					SPARE					0.0		0.0			0.0	SPARE									20	1	58				
59	20	1	1					SPARE					0.0				0.0	0.0	SPARE									20	1	60				
61	20	1	1					SPARE					0.0	0.0				0.0	SPARE									20	1	62				
63	20	1	1					SPARE					0.0		0.0			0.0	SPARE									20	1	64				
65	20	1	1					SPARE					0.0				0.0	0.0	SPARE									20	1	66				
67	20	1	1					SPARE					0.0	0.0				0.0	SPARE									20	1	68				
69	20	1	1					SPARE					0.0		0.0			0.0	SPARE									20	1	70				
71	20	1	1					SPARE					0.0				0.0	0.0	SPARE									20	1	72				
73	20	1	1					SPARE					0.0	0.0				0.0	SPARE									20	1	74				
75	20	1	1					SPARE					0.0		0.0			0.0	SPARE									20	1	76				
77	20	1	1					SPARE					0.0				0.0	0.0	SPARE									20	1	78				
79	20	1	1					SPARE					0.0	0.0				0.0	SPARE									20	1	80				
81	20	1	1					SPARE					0.0				0.0	0.0	SPARE									20	1	82				
83	20	1	1					SPARE					0.0				0.0	0.0	SPARE									20	1	84				
TOTALS:					CONNECTED KVA PER PHASE					15	15	15	CONNECTED TOTAL KVA					44																
					CONNECTED AMPS PER PHASE					123	121	123	CONNECTED AVERAGE AMPS PER PHASE					122																
NEC DIVERSIFIED LOAD CALCULATIONS										21 KVA					ALL OTHER LOADS @100% =					6 KVA					DIVERSIFIED TOTAL KVA =					42				
RECEPTACLES 10kVA @100% =										10 KVA					25% OF LARGEST MOTOR =					0 KVA					AVERAGE AMPS PER PHASE =					118				
REMAINDER 11kVA @.50% =										6 KVA																								

EXISTING PANEL "154-2EC5"																					
VOLTS/PHASE/WIRE: 120/208 V, 3 PH 4 WIRE					PANEL SIZE & TYPE: 22" W x 6" D, BOLT-ON					MAIN SIZE & TYPE: 225 AMPERE MAIN LUGS					LOCATION: LAB ELECTRICAL CLOSET			CABINET: RECESSED		NOTES: EXISTING	
CKT NO	OCP		LOAD (kVA)			DESCRIPTION	LCL kVA	PHASE LOAD			LCL kVA	DESCRIPTION	LOAD (kVA)			OCP	CKT NO				
	AMP	POLE	LTG	CO	PWR			A	B	C			LTG	CO	PWR			AMP	POLE		
1	20	1				LAB BENCH RECEPT.	0.0	1.3			1.3	CENTRIFUGE (A23)			1.3	20	1	2			
3	20	1				LAB BENCH RECEPT.	0.0		1.0		1.0	HOT PLATE (A26)			1.0	20	1	4			
5	20	1				LAB BENCH RECEPT.	0.0			1.5	1.5	OVEN (A21)			1.5	20	1	6			
7	20	1				LAB BENCH RECEPT.	0.0	1.2			1.2	AUTOSTRAINER (A17)			1.2	20	1	8			
9	20	1				LAB BENCH RECEPT.	0.0		1.5		1.5	REFRIGERATOR (A37)			1.5	20	1	10			
11	20	1				LAB BENCH RECEPT.	0.0			1.6	1.6	CRYOSTAT (A7)			1.6	20	1	12			
13	20	1				LAB BENCH RECEPT.	0.0	1.6			1.6	CRYOSTAT (A7)			1.6	20	1	14			
15	20	1				LAB BENCH RECEPT.	0.0		1.5		1.5	GROSSING STATION (A4)			1.5	20	1	16			
17	20	1				LAB BENCH RECEPT.	0.0	1.3		1.3	1.3	TISSUE PROCESSING (A9)			1.3	20	1	18			
19	20	1				LAB BENCH RECEPT.	0.0	1.5			1.5	DISHWASHER (A30)			1.5	20	1	20			
21	20	1				LAB BENCH RECEPT.	0.0		0.3		0.3	WATER REAGENT (A31)			0.3	20	1	22			
23	20	1				LAB BENCH RECEPT.	0.0			0.3	0.3	REFRIGERATOR (A24)			0.3	20	1	24			
25	20	1				AUTOPSY BENCH RECEPT.	0.0	0.6			0.6	AUTOSTRAINER (A16)			0.6	20	1	26			
27	20	1				AUTOPSY BENCH RECEPT.	0.0		1.5		1.5	EMBEDDING (A11/A12)			1.5	20	1	28			
29	20	1				AUTOPSY RECEPT.	0.0			0.0	0.0	SPARE				20	1	30			
31	20	1				AUTOPSY RECEPT.	0.0	1.0			1.3	AUTOPSY LIGHTING	1.0			20	1	32			
33	20	1				AUTOPSY RECEPT.	0.0		1.0		1.0	AUTOPSY TABLE RECEPT.			1.0	20	1	34			
35	20	1				SPARE	0.0			2.0	2.0	AUTOPSY BODY COOLER			2.0	20	2	36			
37	20	1				SPARE	0.0	2.0			2.0	(NOTE 1)			2.0	20	2	38			
39	20	1				SPARE	0.0		1.6		1.6	MICRO PROCESS (A10)			1.6	20	2	40			
41	20	1				SPARE	0.0			1.7	1.7	(NOTE 1)			1.7	20	2	42			
TOTALS:							CONNECTED kVA PER PHASE			9	8	8	CONNECTED TOTAL kVA			26					
							CONNECTED AMPS PER PHASE			77	70	70	CONNECTED AVERAGE AMPS PER PHASE			72					
NEC DIVERSIFIED LOAD CALCULATIONS																					
LIGHTING kVA @125% =						1 kVA		ALL OTHER LOADS @100% =						25 kVA		DIVERSIFIED TOTAL kVA = 26					
RECEPTACLES OKVA @100% =						0 kVA		25% OF LARGEST MOTOR =						0 kVA		AVERAGE AMPS PER PHASE = 73					
REMAINDER OKVA @ 50% =						0 kVA															

DISTRIBUTION PANELBOARD "154-LAB2"																												
VOLTS/PHASE/WIRE: 120/208 V, 3 PH, 4 WIRE						MAIN SIZE & TYPE: 400 AMPERE MAIN LUGS						LOCATION: LAB MECHANICAL ROOM						NOTES:										
ACCESSORIES:						IDENTIFICATION:						GROUNDING BAR, INSULATED						GROUND BAR, 30,000 A.I.C.										
CKT NO	OCP		LOAD (kVA)			PANEL / EQUIPMENT						LCL kVA	PHASE LOAD			LCL kVA	PANEL / EQUIPMENT			LOAD (kVA)			OCP		CKT NO			
	AMP	POLE	LTC	CO	PWR						A		B	C					LTC	CO	PWR	AMP	POLE					
1	250	3				27.6	CONDENSING UNIT (CU-1)		27.6	29.6			2.0		PUMP (P-1)				2.0	40	3	2						
-	-	-				27.6			27.6				2.0						2.0	-	-	-						
-	-	-				27.6						29.6	2.0						2.0	-	-	-						
3	175	3				9.0	AIR HANDLER (AH-1)		9.0	11.0			2.0		PUMP (P-2)				2.0	40	3	4						
-	-	-				9.0			9.0			11.0	2.0						2.0	-	-	-						
-	-	-				9.0			9.0				1.7						2.0	-	-	-						
5	60	3				2.9	EXHAUST FAN (DEF-1)		2.9	4.6			1.6		UNIT HEATER (UH-1)					20	3	6						
-	-	-				2.9			2.9			4.5	1.6						1.6	-	-	-						
-	-	-				2.9			2.9			4.6	1.7						1.7	-	-	-						
7	-	-					SPACE		0.0	0.0			0.0		SPACE					-	-	-	8					
-	-	-							0.0		0.0		0.0							-	-	-						
-	-	-							0.0		0.0		0.0							-	-	-						
9	-	-					SPACE		0.0	0.0			0.0		SPACE					-	-	-	10					
-	-	-							0.0		0.0		0.0							-	-	-						
-	-	-							0.0		0.0		0.0							-	-	-						
TOTALS:						CONNECTED KVA PER PHASE						45	45	45	CONNECTED TOTAL KVA						136							
						CONNECTED AMPS PER PHASE						377	376	377	CONNECTED AVERAGE AMPS PER PHASE						377							
NEC DIVERSIFIED LOAD CALCULATIONS																												
LIGHTING OKVA @25% =										0 KVA		ALL OTHER LOADS @300% =										136 KVA		DIVERSIFIED TOTAL KVA =			142	
RECEPTACLES OKVA @100% =										0 KVA		25% OF LARGEST MOTOR =										7 KVA		AVERAGE AMPS PER PHASE =			395	
REMAINDER OKVA @ 50% =										0 KVA																		

PANEL "154-LEC1"

VOLTS/PHASE/ WIRE:

120/208 V, 3 PH 4 WIRE

PANEL SIZE & TYPE:

22" W x 6" D, BOLT-ON

MAIN SIZE & TYPE:

22S AMPERE MAIN LUGS

LOCATION:

LAB ELECTRICAL ROOM

CABINET:

SURFACE

NOTES:

ACCESSORIES:

PANEL DIRECTORY, IDENTIFICATION, GROUNDING

BAR, INSULATED GROUND BAR, SUBFEED LUGS, 22,000 A.I.C.

CKT NO	OCF	AMP	POLE	LTG	CO	LOAD (kVA)	PWR	DESCRIPTION	LCL kVA	PHASE	LOAD	LCL kVA	DESCRIPTION	LOAD (kVA)	OCF	CKT NO	
										A	B	C		LTG	CO		
1	20	1	1.6					LAB DESK RECEPT.	1.6	2.7			1.1	REFRIGERATOR (H14)	1.1	20	1
3	20	1	1.6					LAB DESK RECEPT.	1.6		2.7		1.1	REFRIGERATOR (H14)	1.1	20	1
5	20	1	1.6					LAB DESK RECEPT.	1.6			2.0	0.4	UNDERCABINET REFRIG.	0.4	20	1
7	20	1	1.6					LAB DESK RECEPT.	1.6	3.4			1.8	UNDERCABINET REFRIG.	1.8	20	1
9	20	1	1.6					LAB DESK RECEPT.	1.6		2.5		0.9	CENTRIFUGE (U5)	0.9	20	1
11	20	1	1.6					LAB DESK RECEPT.	1.6			1.9	0.3	REFRIGERATOR (U6)	0.3	20	1
13	20	1	1.6					LAB DESK RECEPT.	1.6	2.1			0.5	PRINTER (L9)	0.5	20	1
15	20	1	1.6					LAB DESK RECEPT.	1.6		2.5		0.9	CENTRIFUGE (L11)	0.9	20	1
17	20	1	1.6					LAB DESK RECEPT.	1.6			2.0	0.4	COAG. ANALYZER (L7)	0.4	20	1
19	20	1	1.6					LAB DESK RECEPT.	1.6	2.3			0.7	RADIOMETER (U15)	0.7	20	1
21	20	1	1.6					LAB DESK RECEPT.	1.6		2.6		1.0	POWERWATER (L16)	1.0	20	1
23	20	1	1.6					LAB DESK RECEPT.	1.6			1.8	0.2	PRINTER (U16)	0.2	20	1
25	20	1						SPARE	0.0	1.8			1.8	UPS (L6)	1.8	20	1
27	20	1						SPARE	0.0		0.7		0.7	COAG. ANALYZER (L3)	0.7	20	1
29	20	1	1.6					LAB DESK RECEPT.	1.6			1.9	0.3	REFRIGERATOR (H3)	0.3	20	1
31	20	1	1.6					LAB DESK RECEPT.	1.6	1.8			0.2	FREEZER (C17)	0.2	20	1
33	20	1	1.8					LAB DESK RECEPT.	1.8		2.1		0.3	REFRIGERATOR (H3)	0.3	20	1
35	20	1	2.0					LAB DESK RECEPT.	2.0			3.5	1.5	DISHWASHER (C27)	1.5	20	1
37	20	1	2.0					LAB DESK RECEPT.	2.0	3.2			1.2	THAWING BATH (B13)	1.2	20	1
39	20	1	2.0					LAB DESK RECEPT.	2.0		2.9		0.9	PLATELET INCUBATOR (B14)	0.9	20	1
41	20	1	2.0					LAB DESK RECEPT.	2.0			3.5	1.5	COPIER (P17)	1.5	20	1
43	20	1	1.4					LAB DESK RECEPT.	1.4	3.2			1.8	FREEZER (B16)	1.8	20	1
45	20	1	2.0					LAB DESK RECEPT.	2.0		3.5		1.5	REFRIGERATOR (B15)	1.5	20	1
47	20	1	2.0					LAB DESK RECEPT.	2.0			3.5	1.5	REFRIGERATOR (B15)	1.5	20	1
49	20	1	2.0					LAB DESK RECEPT.	2.0	2.3			0.3	REFRIGERATOR (C21)	0.3	20	1
51	20	1	1.8					LAB DESK RECEPT.	1.8		2.7		0.9	CENTRIFUGE (C20)	0.9	20	1
53	20	1	1.4					LAB DESK RECEPT.	1.4			2.4	1.0	PRINTER (C13)	1.0	20	1
55	20	1	1.8					LAB DESK RECEPT.	1.8	2.8			1.0	PRINTER (C13)	1.0	20	1
57	20	1	2.0					LAB DESK RECEPT.	2.0		2.2		0.2	RECEPTACLE	0.2	20	1
59	20	1	2.0					LAB DESK RECEPT.	2.0			2.3	0.3	WATER SYSTEM (C22)	0.3	20	1
61	20	1	2.0					LAB DESK RECEPT.	2.0	3.3			1.3	CENTRIFUGE (P7)	1.3	20	1
63	20	1	1.8					LAB DESK RECEPT.	1.8		2.4		0.6	PRINTER (P5)	0.6	20	1
65	20	1	1.8					LAB DESK RECEPT.	1.8			3.3	1.5	REFRIGERATOR (P9)	1.5	20	1
67	20	1	1.0					LAB DESK RECEPT.	1.0	2.5			1.5	FREEZER (P8)	1.5	20	1
69	20	1						SPARE	0.0		0.6		0.6	PRINTER (H6)	0.6	20	1
71	20	1						SPARE	0.0			0.9	0.9	UPS (H17)	0.9	20	1
73	20	1						SPARE	0.0	0.6			0.6	HEM. ANALYZER (H7)	0.6	20	1
75	20	1						SPARE	0.0		0.8		0.8	CENTRIFUGE (C19)	0.8	20	1
77	20	1						SPARE	0.0			1.0	1.0	BLOOD BANK (B3/B6/B10)	1.0	20	1
79	20	1						SPARE	0.0	0.0			0.0	SPARE		20	1
81	20	1						SPARE	0.0		0.1		0.1	ANALYZER (H15)	0.1	20	2
83	20	1						SPARE	0.0			0.1	0.1			80	84

TOTALS:

CONNECTED KVA PER PHASE 32 28 30

CONNECTED AMPS PER PHASE 237 256 251

CONNECTED TOTAL KVA 90

CONNECTED AVERAGE AMPS PER PHASE 251

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING 0KVA @125% = 0 kVA

RECEPTACLES 10KVA @100% = 10 kVA

REMAINDER 45KVA @ 50% = 23 kVA

ALL OTHER LOADS @100% = 35 kVA

25% OF LARGEST MOTOR = 0 kVA

DIVERSIFIED TOTAL KVA = 68

AVERAGE AMPS PER PHASE = 188

PANEL "154-LEC2"

VOLTS/PHASE/WIRE:

120/208 V, 3 PH 4 WIRE

PANEL SIZE & TYPE:

22" W x 6" D, BOLT-ON

MAIN SIZE & TYPE:

225 AMPERE MAIN LUG

LOCATION:

LAB ELECTRICAL ROOM

CABINET:

SURFACE

NOTES:

ACCESSORIES:

PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR, INSULATED GROUND BAR, SUBFED LUGS, 22,000 A.I.C.

CKT NO	AMP	OCP	LOAD (kVA)			LCL kVA	PHASE LOAD			LCL kVA	DESCRIPTION	LOAD (kVA)			OCP	CKT NO	
			LTG	CO	PWR		A	B	C			LTG	CO	PWR			
1	20	1	1.8			1.8	2.3			0.5	INCUBATOR (M9)			0.5	20	1	2
3	20	1	1.8			1.8	2.3			0.5	INCUBATOR (M9)			0.5	20	1	4
5	20	1	1.8			1.8		2.1	0.3	0.5	REFRIGERATOR (M8)			0.3	20	1	1
7	20	1	1.8			1.8	2.3			0.5	INCUBATOR (M13)			0.5	20	1	8
9	20	1	1.8			1.8		2.1	0.3	0.3	STRAINER (M6)			0.3	20	1	10
11	20	1	1.8			1.8			2.1	0.3	REFRIG.(M21)			0.3	20	1	12
13	20	1	1.8			1.8	2.2			0.4	LAB RECEPTACLES		0.4		20	1	14
15	20	1	1.8			1.8	2.7			0.9	INCUBATORS (M4)			0.9	20	1	16
17	20	1	1.8			1.8		3.1	1.3	1.3	CENTRIFUGE (M10)			1.3	20	1	18
19	20	1	1.8			1.8	3.5			1.7	BLOOD CULTURE (M24)			1.7	20	1	20
21	20	1	1.8			1.8		3.5	1.7	1.7	BIOSAFETY (M12)			1.7	20	1	22
23	20	1				0.0			1.3	1.3	BIOSAFETY (M11)			1.3	20	1	24
25	20	1				0.0	1.5			1.5	IMMUNO RECEPT.			1.5	20	1	26
27	20	1				0.0		1.5		1.5	IMMUNO RECEPT.			1.5	20	1	28
29	20	1				0.0			1.5	1.5	IMMUNO RECEPT.			1.5	20	1	30
31	20	1				0.0	1.5			1.5	IMMUNO RECEPT.			1.5	20	1	32
33	20	1				0.0		1.0		1.0	IMMUNASSAY			1.0	20	1	34
35	20	1				0.0			0.5	0.5	STREAM LAB (P10)			0.5	15	2	36
37	20	1				0.0	0.5			0.5	STREAM LAB (P10)			0.5	-	-	38
39	20	1				0.0		0.4		0.4	REFRIGERATOR (M20)			0.4	20	2	40
41	20	1				0.0			0.4	0.4				0.4	-	-	42
43	20	1				0.0	0.5			5.2	IMMUNO ANALYZER (C9)			5.2	50	2	44
45	20	1				0.0		5.2		5.2				5.2	-	-	46
47	20	1				0.0			5.2	5.2	IMMUNO ANALYZER (C9)			5.2	50	2	48
49	20	1				0.0	0.5			5.2				5.2	-	-	50
51	20	1				0.0		2.5		2.5	CORE WALK-IN COOLER			2.5	30	2	52
53	20	1				0.0			2.5	2.5				2.5	-	-	54
55	20	1				0.0	1.5			1.5	CORE WALK-IN COOLER			1.5	20	1	56
57	20	1				0.0		0.0		0.0	ACCESSORY POWER STREAM LAB			20	1	58	
59	20	1				0.0			0.0	0.0	STREAM LAB AIR COMPRESSOR			20	1	60	
61	20	1				0.0	0.0			0.0	SPARE			20	1	62	
63	20	1				0.0		0.0		0.0	SPARE			20	1	64	
65	20	1				0.0			0.0	0.0	SPARE			20	1	66	
67	20	1				0.0	0.0			0.0	SPARE			20	1	68	
69	20	1				0.0		0.0		0.0	SPARE			20	1	70	
71	20	1				0.0			0.0	0.0	SPARE			20	1	72	
73	20	1				0.0	0.0			0.0	SPARE			20	1	74	
75	20	1				0.0		0.0		0.0	SPARE			20	1	76	
77	20	1				0.0			0.0	0.0	SPARE			20	1	78	
79	20	1				0.0	0.0			0.0	SPARE			20	1	80	
81	20	1				0.0		0.0		0.0	SPARE			20	1	82	
83	20	1				0.0			0.0	0.0	SPARE			20	1	84	

TOTALS:

CONNECTED KVA PER PHASE 26 21 19

CONNECTED AMPS PER PHASE 214 177 156

CONNECTED TOTAL KVA 66

AVERAGE AMPS PER PHASE 182

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING 0kVA @125% = 0 kVA

RECEPTALS 10kVA @100% = 10 kVA

REMAINDER 10kVA @ 50% = 5 kVA

ALL OTHER LOADS @100% =

25% OF LARGEST MOTOR =

45 kVA

0 kVA

DIVERSIFIED TOTAL KVA = 61

AVERAGE AMPS PER PHASE = 168

REVISIONS2	REV-DAT
Revisions	Date

VA MONTANA HEALTHCARE SYSTEM

FT HARRISON, MT

Drawing Title ELECTRICAL SCHEDULES		Project Title LABORATORY TRACK SYSTEM SITE PREPARATION			Date 8.19.2011	
					Project No. 436-12-SLP-101	
Approved/ Division Chief		Building Number 154	Checked	Drawn RJS	DRAWING NO. E12	
Approved/ Service Director		Location FORT HARRISON, MONTANA			Dwg 7 Of 8	

**DEPARTMENT OF
VETERANS AFFAIRS**