208/120 VOLTS
3 PHASE
4 WIRE

PANEL **1A**
LOCATION RM 106
KAIC
KSCA

225A MAIN BREAKER
225 AMP BUSSING
100% NEUTRAL BUS
WITHOUT IG BUS

LOCATION	VA ϕA	VA ϕB	VA ϕC	LTG	REC	MIS	CIR	BKR		BKR	CIR	MIS	REC	LTG	VA ϕA	VA ϕB	VA ϕC	LOCATION
CLASS RM. 125,126	936			14	–	–	1	20–1		20–1	2	–	5	–	900			CLASS RM. 122, 125, 126
CLASS RM. 122		800		13	–	–	3	20–1		20–1	4	–	6	–		1080		CLASS RM. 122, 125, 126
CLASS RM. 124, TOILETS			832	13	–	–	5	20–1		20–1	6	–	5	–			900	CLASS RM. 122, 125, 126
CLASS RM. 112,105–107	832			13	–	–	7	20–1		20–1	8	–	4	–	720			CLASS RM. 124 AND TOILETS
CORRIDOR		1152		18	–	–	9	20–1		20–1	10	–	4	–		720		CLASS RM. 124 AND TOILETS
–			–	15	–	–	11	20–1		20–1	12	–	3	–			540	CLASS RM. 124 AND TOILETS
EXTERIOR	546			21	–	–	13	20–1		20–1	14	–	1	–	180			ELEVATOR RM.
EXTERIOR AND GREEN RM.		–		9	–	–	15	20–1		20–1	16	–	1	–		180		ELEVATOR PIT
SPARE			–	–	–	–	17	20–1		20–1	18	–	–	–			0	SPARE
SERVING AREA	360			–	2	–	19	20–1		20–1	20	–	4	–	720			CLASS RM. 104,105,106,107,112
SERVING AREA		1200		–	1	–	21	20–1		20–1	22	–	4	–		720		CLASS RM. 104,105,106,107,112
SERVING AREA			180	–	1	–	23	20–1		20–1	24	–	4	–			720	CLASS RM. 104,105,106,107,112
SERVING AREA	360			–	1	–	25	20–1		20–1	26	–	4	–	720			HALL 100,101,103
SERVING AREA		1200		–	1	–	27	20–1		20–1	28	–	3	–		540		HALL 100,101,103
SERVING AREA FRIG.			1500	–	1	–	29	20–1		20–1	30	–	4	–			720	HALL 100,101,103
SPARE	0			–	–	–	31	20–1		20–1	32	–	3	–	540			RM. 114,115,116
SPARE		0		–	–	–	33	20–1		20–1	34	–	3	–		540		RM. 114,115,116
SPARE			0	–	–	–	35	20–1		20–1	36	–	3	–			540	RM. 114,115,116
SPARE	0			–	–	–	37	20–1		20–1	38	–	–	–	0			SPARE
SPARE		0		–	–	–	39	20–1		20–1	40	–	–	–		0		SPARE
SPARE			0	–	–	–	41	20–1		20–1	42	–	–	–			0	SPARE

ϕA: 6774 VA ϕB: 8132 VA ϕC: 5932 VA
TOTAL CONNECTED LOAD: 20838 VA OR 57.9 AMPS @ 208 VOLTS - 3 ϕ
LCL: 5058 VA x 25% = 1265 VA
FDL: 22103 VA OR 61.4 AMPS

208/120 VOLTS
3 PHASE
4 WIRE

PANEL **2A**
LOCATION 2ND FLOOR
KAIC
KSCA

225A MAIN BREAKER
225 AMP BUSSING
100% NEUTRAL BUS
WITHOUT IG BUS

LOCATION	VA ϕA	VA ϕB	VA ϕC	LTG	REC	MIS	CIR	BKR		BKR	CIR	MIS	REC	LTG	VA ϕA	VA ϕB	VA ϕC	LOCATION
CLASSROOM 213,214	1248			13	–	–	1	20–1		20–1	2	–	3	–	540			CLASSROOM 213
CLASSROOM 215		672		7	–	–	3	20–1		20–1	4	–	3	–		540		CLASSROOM 213
CORRIDOR			1152	19	–	–	5	20–1		20–1	6	–	3	–			540	CLASSROOM 213,214,
TOILETS	360			–	2	–	7	20–1		20–1	8	–	2	–	360			CLASSROOM 214,215
TOILETS		180		–	1	–	9	20–1		20–1	10	–	2	–		360		CLASSROOM 215
SPARE			0	–	–	–	11	20–1		20–1	12	–	2	–			360	CLASSROOM 215
SPARE	0			–	–	–	13	20–1		25A	14	–	–	–	2220			AC–6
SPARE		0		–	–	–	15	20–1		3P	16	–	–	–		2220		MCA 18.5
SPARE			0	–	–	–	17	20–1		–	18	–	–	–			2220	–
AC–11	2200			–	–	–	19	25A		25A	20	–	–	–	2220			AC–7
MCA 18.5		2200		–	–	–	21	3P		3P	22	–	–	–		2220		MCA 18.5
–			2200	–	–	–	23	–		–	24	–	–	–			2220	–
RECEPTACLES	0			–	2	–	25	20–1		40A	26	–	–	–	3936			AC–8
SPARE		0		–	–	–	27	20–1		3P	28	–	–	–		3936		MCA 18.5
SPARE			0	–	–	–	29	20–1		–	30	–	–	–			3936	–
SPARE	0			–	–	–	31	20–1		35A	32	–	–	–	3468			AC–9
SPARE		0		–	–	–	33	20–1		3P	34	–	–	–		3468		MCA 28.9
SPARE			0	–	–	–	35	20–1		–	36	–	–	–			3468	–
AC–5	3468			–	–	–	37	35A		25A	38	–	–	–	2220			AC–10
MCA 28.9		3468		–	–	–	39	3P		3P	40	–	–	–		2220		MCA 18.5
–			3468	–	–	–	41	–		–	42	–	–	–			2220	–

ϕA: 22240 VA ϕB: 21484 VA ϕC: 21784 VA
TOTAL CONNECTED LOAD: 65508 VA OR 182.0 AMPS @ 208 VOLTS - 3 ϕ
LCL: 3072 VA x 25% = 768 VA
FDL: 66276 VA OR 184.1 AMPS

208/120 VOLTS
3 PHASE
4 WIRE

PANEL **2B**
LOCATION
KAIC
KSCA

225A MAIN BREAKER
225 AMP BUSSING
100% NEUTRAL BUS
WITHOUT IG BUS

LOCATION	VA ϕA	VA ϕB	VA ϕC	LTG	REC	MIS	CIR	BKR		BKR	CIR	MIS	REC	LTG	VA ϕA	VA ϕB	VA ϕC	LOCATION
CLASSROOM 203	576			6	–	–	1	20–1		20–1	2	–	3	–	540			CLASSROOM 205
CLASSROOM 204		864		9	–	–	3	20–1		20–1	4	–	2	–		360		CLASSROOM 205
CLASSROOM 205			576	6	–	–	5	20–1		20–1	6	–	2	–			360	CLASSROOM 205
CLASSROOM 205	1024			8	–	–	7	20–1		20–1	8	–	3	–	540			CLASSROOM 203
CLASSROOM 205		1024		8	–	–	9	20–1		20–1	10	–	2	–		360		CLASSROOM 203
SPARE			0	–	–	–	11	20–1		20–1	12	–	2	–			360	CLASSROOM 203
SPARE	0			–	–	–	13	20–1		20–1	14	–	2	–	360			CORRIDOR
SPARE		0		–	–	–	15	20–1		20–1	16	–	1	–		180		CORRIDOR
SPARE			0	–	–	–	17	20–1		20–1	18	–	2	–			360	ROOF
AC–1	7272			–	–	1	19	70A		30A	20	1	–	–	2700			AC–3
MCA 60.6		7272		–	–	–	21	3P		3P	22	–	–	–		2700		MCA 22.5
–			7272	–	–	–	23	–		–	24	–	–	–			2700	–
AC–2	7272			–	–	1	25	70A		20A	26	1	–	–	1824			AC–4
MCA 60.6		7272		–	–	–	27	3P		3P	28	–	–	–		1824		MCA 15.2
–			7272	–	–	–	29	–		–	30	–	–	–			1824	–
SPARE	0			–	–	–	31	20–1		20–1	32	–	–	–	0			SPARE
SPARE		0		–	–	–	33	20–1		20–1	34	–	–	–		0		SPARE
SPARE			0	–	–	–	35	20–1		20–1	36	–	–	–			0	SPARE
SPARE	0			–	–	–	37	20–1		20–1	38	–	–	–	0			SPARE
SPARE		0		–	–	–	39	20–1		20–1	40	–	–	–		0		SPARE
SPARE			0	–	–	–	41	20–1		20–1	42	–	–	–			0	SPARE

ϕA: 22108 VA ϕB: 21856 VA ϕC: 20724 VA
TOTAL CONNECTED LOAD: 64688 VA OR 179.7 AMPS @ 208 VOLTS - 3 ϕ
LCL: 4064 VA x 25% = 1016 VA
FDL: 65704 VA OR 182.5 AMPS

RELAY CABINET R1A

LOCATION

CONTROL	DESCRIPTION	CIRCUIT	RLY		RLY	CIRCUIT	DESCRIPTION	CONTROL
SWa	CLASSROOM 126	1A–1	1		2	1A–5	CLASSROOM 124	SWa
SWb	CLASSROOM 126	1A–1	3		4	1A–5	CLASSROOM 124	SWb
SWa	CLASSROOM 125	1A–1	5		6	1A–7	CLASSROOM 112	SWa
SWb	CLASSROOM 125	1A–1	7		8	1A–7	CLASSROOM 112	SWb
SWa	CLASSROOM 122	1A–3	9		10	1A–9	CORRIDOR	SWa
SWb	CLASSROOM 122	1A–3	11		12	1A–9	CORRIDOR	SW/TC
SWa	RESTROOM	1A–11	13		14	1A–13	EXTERIOR	TC/PC
SWb	RESTROOM	1A–11	15		16	1A–15	EXTERIOR	TC/PC
SWa	RESTROOM	1A–11	17		18	1A–15	PLATFORM	SWa
SWb	RESTROOM	1A–11	19		20	1A–15	PLATFORM	SWb
TC/PC	SPARE	1A–15	21		22	1A–15	PLATFORM	SWc
SWb	SPARE	1A–17	23		24	1A–15	PLATFORM	SWd
–	SPARE	–	25		26	–	SPARE	–
–	SPARE	–	27		28	–	SPARE	–
–	SPARE	–	29		30	–	SPARE	–
–	SPARE	–	31		32	–	SPARE	–
–	SPARE	–	33		34	–	SPARE	–
–	SPARE	–	35		36	–	SPARE	–
–	SPARE	–	37		38	–	SPARE	–
–	SPARE	–	39		40	–	SPARE	–
–	SPARE	–	41		42	–	SPARE	–
–	SPARE	–	43		44	–	SPARE	–
–	SPARE	–	45		46	–	SPARE	–
–	SPARE	–	47		48	–	SPARE	–

SM: MASTER SW: LOCAL LV SWITCH PC: PHOTOCELL TC: TIMECLOCK OS: OCCUPANCY SENSOR PH: PHONE

RELAY CABINET R2A

LOCATION ROOM 207

CONTROL	DESCRIPTION	CIRCUIT	RLY		RLY	CIRCUIT	DESCRIPTION	CONTROL
SWa	CLASSROOM 213	2A–1	1		2	–	SPARE	–
SWb	CLASSROOM 213	2A–1	3		4	–	SPARE	–
SWc	CLASSROOM 214	2A–1	5		6	–	SPARE	–
SWd	CLASSROOM 214	2A–1	7		8	–	SPARE	–
SWe	CLASSROOM 215	2A–3	9		10	–	SPARE	–
SWf	CLASSROOM 215	2A–3	11		12	–	SPARE	–
SWa/TC	HALLWAY	2A–5	13		14	–	SPARE	–
SWb/TC	HALLWAY	2A–5	15		16	–	SPARE	–

SM: MASTER SW: LOCAL LV SWITCH PC: PHOTOCELL TC: TIMECLOCK OS: OCCUPANCY SENSOR PH: PHONE

RELAY CABINET R2B

LOCATION ROOM 201

CONTROL	DESCRIPTION	CIRCUIT	RLY		RLY	CIRCUIT	DESCRIPTION	CONTROL
SWa	FELLOWSHIP HALL	2B–7	1		2	2B–3	CLASSROOM 203	SWa
SWb	FELLOWSHIP HALL	2B–7	3		4	2B–3	CLASSROOM 203	SWf
SWc	FELLOWSHIP HALL	2B–9	5		6	2B–5	CLASSROOM 204	SWc
SWd	FELLOWSHIP HALL	2B–9	7		8	2B–5	CLASSROOM 204	SWd
SWe	FELLOWSHIP HALL	2B–11	9		10	2B–1	CLASSROOM 205	SWa
SWg	FELLOWSHIP HALL	2B–11	11		12	2B–1	CLASSROOM 205	SWb
SWf	FELLOWSHIP HALL	2B–13	13		14	–	SPARE	–
SWj	FELLOWSHIP HALL	2B–13	15		16	–	SPARE	–
SWk	FELLOWSHIP HALL	2B–13	17		18	–	SPARE	–
–	SPARE	–	19		20	–	SPARE	–
–	SPARE	–	21		22	–	SPARE	–
–	SPARE	–	23		24	–	SPARE	–
–	SPARE	–	25		26	–	SPARE	–
–	SPARE	–	27		28	–	SPARE	–
–	SPARE	–	29		30	–	SPARE	–
–	SPARE	–	31		32	–	SPARE	–
–	SPARE	–	33		34	–	SPARE	–
–	SPARE	–	35		36	–	SPARE	–
–	SPARE	–	37		38	–	SPARE	–
–	SPARE	–	39		40	–	SPARE	–
–	SPARE	–	41		42	–	SPARE	–
–	SPARE	–	43		44	–	SPARE	–
–	SPARE	–	45		46	–	SPARE	–
–	SPARE	–	47		48	–	SPARE	–

SM: MASTER SW: LOCAL LV SWITCH PC: PHOTOCELL TC: TIMECLOCK OS: OCCUPANCY SENSOR PH: PHONE

1A	2A	2B
AV	-	-
-	-	-

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CALVARY CHAPEL
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HESPERIA, CA
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PROJECT
FELLOWSHIP HALL

ISSUANCES

OWNERS MEETING	03–08–04
PLANNING REVIEW	06–01–06
PLANCHECK SUBMITTAL	03–23–07

REVISIONS

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