

(E) NOTIFICATION, SWING SPACE PERMIT PACKAGE #2

BS1-8 BS1-10 BS1-11 BS1-12 BS1-13 BS1-14 BS1-15 ∇ 75CD ∇ 15CD ∇ 15CD ∇ 15CD ∇ 15CD ∇ 15CD EOL BS1-9 BS1-4 BS1-6 BS1-7 BS1-5 🔽 15CD 🗶

BS3-7 BS3-8 ☑ 15CD ☑ WP V 75CD V 75CD V EOL

BS4-5 BS4-6 BS4-7 BS4-8 BS4-9 ▼ 15CD ▼ ▼ 15CD ▼ 15CD ▼ 15CD F F F EOL

BD-6 BD-7

PACIFIC HEIGHTS SCHOOL FIRE ALARM RISER DIAGRAM

NOT TO SCALE

	DEVICE TYPE	SUPERVISORY CURRENT (PER DEVICE)	SUPERVISORY CURRENT (TOTAL)	ALARM CURRENT (PER DEVICE)	ALARM CURRENT (TOTAL)
	(E) FACP	0.11000	0.11000	0.12000	0.12000
	(E) SMOKE DETECTOR	0.00005	0.00009	0.05200	0.10400
	(E) SMOKE DETECTOR	0.00005	0.00086	0.05200	0.98800
		SYSTEM SUPERVISORY	0.11095	SYSTEM ALARM CURRENT	1.21200
	0.11095	generalise the state of the sta		•	
	24.00000				
RVE:	2.66268				
	1.21200				
	0.08300				
RVE:	0.10060				
	2.76328				
	0.55266				

FAS BATTERY CALCULATION RNPS-B

		SUPERVISORY CURRENT (PER DEVICE)	SUPERVISORY CURRENT (TOTAL)	ALARM CURRENT (PER DEVICE)	ALARM CURRENT (TOTAL)
10-120-1900-1-10-1970-1-10-1970-1-10-1970-1-10-1970-1-10-1970-1-10-1970-1-10-1970-1-10-1970-1-10-1970-1-10-197	REMOTE POWER SUPPLY	0.06000	0.06000	0.10000	0.10000
	STROBE (15CD)	0.00000	0.00000	0.04100	0.20500
	STROBE (30CD)	0.00000	0.00000	0.06500	0.13000
	STROBE (75CD)	0.00000	0.00000	0.11600	0.11600
	HORN/STROBE (15CD)	0.00000	0.00000	0.09300	0.93000
	HORN/STROBE (75CD)	0.00000	0.00000	0.15700	1.41300
	HORN	0.00000	0.00000	0.02600	0.26000
	HORN (WEATHERPROOF)	0.00000	0.00000	0.05000	0.10000
	<u></u>	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)			
14812-2012-1214-0-148-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1					
		SYSTEM SUPERVISORY	0.06000	SYSTEM ALARM CURRENT	3.25400

RENT: URS): ERVE:	0.06000 24.00000 1.44000
ENT:	3.25400
TES):	0.08300
RVE:	0.27008
URS:	1.71008
CITY:	0.34202
URS:	2.05210
URS:	12.0

GENERAL NOTES

- 1. ALL CABLES CONNECTING REMOTE NOTIFICATION POWER SUPPLY WITH FIRE ALARM CONTROL PANEL SHALL BE (2) TWO #12 AWG, UNLESS OTHERWISE NOTED.
- 2. ALL DETECTION CIRCUITS SHALL USE (2) TWO #14 AWG CABLES, UNLESS OTHERWISE NOTED. SEE VOLTAGE DROP CALCULATIONS FOR NOTIFICATION CIRCUIT CABLE SIZE.

SHEET NOTES

(1) CIRCUIT BREAKER SHALL BE MARKED AND IDENTIFIED PER NFPA 72.

2 PROVIDE ONE (1) UNSWITCHED 120 VOLT, 20 AMP, 1 POLE DEDICATED CIRCUIT AND CIRCUIT BREAKER IN LOCAL PANELBOARD. CIRCUIT BREAKER SHALL BE MARKED AND IDENTIFIED PER NFPA 72.

SWING SPACE PERMIT PACKAGE #3

FAS VOLTAGE DROP (VD) CALCULATION BS1

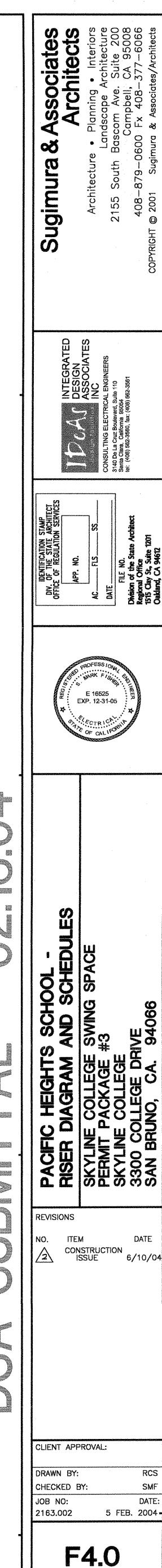
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DEVICE NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
WIRE GAUGE	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
DISTANCE (FT)	110	12	38	37	67	79	36	12	27	52	12	27	39	30	
AMPS AT DEVICE	0.093	0.026	0.157	0.026	0.041	0.026	0.041	0.026	0.026	0.157	0.093	0.026	0.093	0.093	
AMPS DEVELOPED	0.965	0.872	0.846	0.689	0.663	0.622	0.596	0.555	0.529	0.503	0.346	0.253	0.227	0.134	
VOLTAGE DROP	0.376	0.037	0.114	0.090	0.157	0.174	0.076	0.024	0.051	0.093	0,015	0.024	0.031	0.014	
		•						-							
DEVICE NUMBER	15														
WIRE GAUGE	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
DISTANCE (FT)	12													-	
AMPS AT DEVICE	0.041														
AMPS DEVELOPED	0.041														
VOLTAGE DROP	0.002								[
' and the set of the s		-	(B & 41 205 104	ALIMAN	A186 A	r	***						
TOTAL CIRCU					WIRE	OHMS/	CIRC.	FORMULA: VOLTAGE DROP = AMPS X FT X OHMS/FT							
1		OLTAGE:	24.000		SIZE	1000 FT	MILS.	-	VULIAGE	UROP = AN	NPS X FI X	UHWIS/F I			
					12	1.77	6530	1							
VOLTAGI	E AT FINA	L DEVICE:	22.723		<u>14</u> 16	2.82	4110								
							2580								
	% VOLTAGE DROP: 5.321%						1620								
					20	11.34	1020								
M	A MUMIXA	LLOWED			22	18.08	640								
4	% VOLTA	GE DROP:	10%		24	28.64	404								
								7							

We and we are a second and a second data and a second data and a second data and a second data and a second dat		FAS	VOLT	AGE	DROP	' (VD)	CALC	ULA	TION	BS2	na an ann ann ann ann ann ann ann ann a	******			
	1	2	3	4	5	6	7								
WIRE GAUGE	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
DISTANCE (FT)	76	32	90	12	37	42	111								
AMPS AT DEVICE	0.065	0.157	0.093	0.041	0.116	0.157	0.065								
AMPS DEVELOPED	0.694	0.629	0.472	0.379	0.338	0.222	0.065								
VOLTAGE DROP	0.187	0.071	0.150	0.016	0.044	0.033	0.026								
TOTAL CIRCUIT VOLTAGE DROP: 0.527 CIRCUIT VOLTAGE: 24.000				WIRE SIZE	OHMS/ 1000 FT	CIRC. MILS.	FORMULA: VOLTAGE DROP = AMPS X FT X OHMS/FT								
VOLTAGI	E AT FINA	L DEVICE:	23.473		12	1.77 2.82	6530 4110								
	% VOLTA	GE DROP:	2.197%		<u>16</u> 18	4.48	2580 1620								
					20	11.34	1020								
M	A MUMIXA	LLOWED			22	18.08	640								
	2/ 1///1 TA/	GE DROP:	100/		24	28.64	404								

		FAS	VOLT	AGE	DROP	' (VD)	CALC		FION	BS3					
DEVICE NUMBER	1	2	3	4	5	6	7	8							
WIRE GAUGE	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
DISTANCE (FT)	164	12	27	52	37	57	37	55					<u>[</u>		
AMPS AT DEVICE	0.157	0.093	0.026	0.041	0.041	0.157	0.157	0.026]		ļ	
AMPS DEVELOPED	0.698	0.541	0.448	0.422	0.381	0.340	0.183	0.026		L	1			<u> </u>	
VOLTAGE DROP	0.405	0.023	0.043	0.078	0.050	0.069	0.024	0.005							
TOTAL CIRCUIT VOLTAGE DROP: 0.696 CIRCUIT VOLTAGE: 24.000					WIRE SIZE	OHMS/ 1000 FT	CIRC. MILS.	FORMULA: VOLTAGE DROP = AMPS X FT X OHMS/FT							
VOLTAG	E AT FINA	L DEVICE:	23.304		<u>12</u> 14 16	1.77 2.82 4.48	6530 4110 2580								
	% VOLTA	GE DROP:	2.901%		16 18 20	4.40 7.14 11.34	1620 1020								
+**					22	18.08	640								
	% VOLTA	GE DROP:	10%		24	28.64	404								

		FAS	VOLT	AGE	DROP	' (VD)	CALC	ULAT	ION	BS4				
IBER	1	2	3	4	5	6	7	8	9					
UGE	12	12	12	12	12	12	12	12	12	12	12	12	12	12
= (FT)	280	22	12	51	16	34	41	28	12					

DEVICE NUMBER	1	2	3	4	5	6	7	8	9					
WIRE GAUGE	12	12	12	12	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	280	22	12	51	16	34	41	28	12					<u> </u>
AMPS AT DEVICE	0.157	0.093	0.157	0.026	0.093	0.026	0.093	0.093	0.041					
AMPS DEVELOPED	0.779	0.622	0.529	0.372	0.346	0.253	0.227	0.134	0.041					<u> </u>
VOLTAGE DROP	0.772	0.048	0.022	0.067	0.020	0.030	0.033	0.013	0.002					L
TOTAL CIRCUIT VOLTAGE DROP: 1.008 CIRCUIT VOLTAGE: 24.000						OHMS/ 1000 FT	CIRC. MILS.		FORMULA VOLTAGE	-	APS Y FT Y	OHMS/FT		
		OLIAGE:	24.000		SIZE 12	1.77	6530		VOLIMGE		DE Q A F I A			
VOLTAG	E AT FINA	L DEVICE:	22.992		14	2.82	4110	7						
					16	4.48	2580							
	% VOLTA	GE DROP:	4.201%		18	7.14	1620							
					20	11.34	1020							
M	AXIMUM A	LLOWED			22	18.08	640							
	0/ \///\ TA	GE DROP:	10%		24	28.64	404	ſ						



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