

<u>Internal View</u>

MXLR - REMOTE FIRE ALARM CONTROL PANEL Building 30, Canada College

		LOOP - SCHEI	DULE
CKT NUMBER	MODULE	DESCRIPTION	LOCATION
7	ALD-21 #1	INITIATING DEVICES	BUILDING 5: FIRST, SECOND, THIRD FLOORS BUILDING 6: FIRST FLOORS
8 .	1	INIT AT NG DEVICES	BUILDING 8: FIRST AND SECOND FLOOR
29	ALD-21 #1	INITIATING DEVICES	BUILDING 5: FIRST, SECOND, THIRD FLOORS BUILDING 6: FIRST FLOORS
SPARE	·	SPARE	SPARE

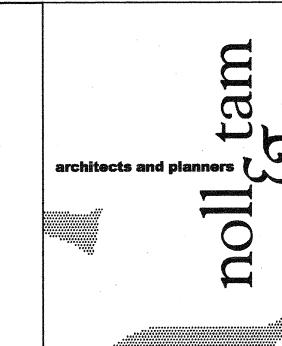
		онд Сород Сород 	SUPERVISO	ORY CURREN	IT				
niintotammena papiintii voittii kintanad	HAVINING AND AND AND THE REAL PROPERTY OF THE	овновани о ним в наражения и со и запрадованно нед автора о на на вързана и на в		Standby 24	Control of the Contro	oad Current Pe	r Circuit		
	DES	CRIPTION	Quantity	VDC Module /Card Current	End of Line Device	Device Current	Total Standby 24VDC Module Current		
ALD-2I A	TECOCOTTO CONTRACTOR OF THE CO	OOP DRIVER	1	0.105	**************************************		0.105		
**************************************		(2 loops per card)	1			0.066	0.066		
Maria - Linux	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	BLE SIGNAL MODULE	1	0.010			0.010		
12mA p	er NAC cin	cuit (2 ckt. per card)	1 1		0.012		0.012		
MKB-2 A	NNUNCIA1	TOR/KEYBOARD	1	0.005		AND THE PROPERTY OF THE PROPER	0.005		
NET-7 NE	TWORK C	ARD	0	0.030	THE RESIDENCE OF THE PARTY OF T	Caracteristic Ca	0.000		
NET4 NE	TWORK C	ARD	0	0.005			0.000		
PSR-1 RE	MOTE PO	WER SUPPLY	0	0,070			0.000		
*							0.000		
waste and the second				TOTAL S	UPERVISOR	CURRENT	0.198		
		•	NODULE AL	ARM CURRE	NT				
	DES	CRIPTION	Quantity	Module Alarm Current	Output Alarm Current		TOTAL ROW CURRENT		
					Commission with the second sec	-	. Programme in the second control of the control of		
<u> </u>	· · · · · · · · · · · · · · · · · · ·	никорије (1924), порво 10 сточе, не на оберхнот на населенија на пред бого 1920 на населенија на				AMOUNT			
Marchel Los Los IIII See Degles III III III II II II II II II II II II				TOTAL MO	CURRENT				
)	(LS NOTIFICATIO	N CIRC	UITS		1	TAL CKT ENT LOAD		
					0,352				
Der 41	A 282		CIRCUIT	A1		1			
PSC-12	0.352		CIRCUIT	A1 A2	inis — Turkini MeniMeniMeni (1904) (1904) (1904) (1904)		Q		
PSC-12	0.352		CIRCUIT	A2	A CURRENT (0.352		
PSC-12	0.352		CIRCUIT	A2	M CURRENT (
	SUPERV	ISORY CURRENT	CIRCUIT TO SUM	A2 OTAL ALARM	M CURRENT (
A = TOTAI	SUPERV	RVISORY TIME REQUIRED	CIRCUIT TO SUM	A2 OTAL ALARI IMARY			0.352		
A = TOTAI	SUPERV x SUPER AMPS x 2	RVISORY TIME REQUIRED	CIRCUIT TO SUM	A2 OTAL ALARM IMARY SUPERVISO	ORY TIME RE	AMPS)	0.352 24 HR		
A = TOTAI 0.198 = B = TOTAI	SUPERV × SUPER AMPS × 2 4.752	RVISORY TIME REQUIRED 4 HR (AMP-HR) CURRENT	CIRCUIT TO SUM	A2 OTAL ALARM IMARY SUPERVISO ALARM TIME BATTERY P	DRY TIME RE E REQUIRED ROVIDED	AMPS) QUIRED2 15 MINS. o WKA12-33J (2)	0.352 24 HR r .25 HR		
A = TOTAI 0.198 = B = TOTAI	SUPERV x SUPER AMPS x 2 4.752 L ALARM (x ALARM)	RVISORY TIME REQUIRED 4 HR (AMP-HR) CURRENT TIME REQUIRED	CIRCUIT TO SUM	A2 OTAL ALARM IMARY SUPERVISO ALARM TIME BATTERY P	DRY TIME RE	AMPS) QUIRED2 15 MINS. o WKA12-33J (2)	0.352 24 HR r .25 HR		
A = TOTAI 0.198 = B = TOTAI 0.352	SUPERV × SUPER AMPS × 2 4.752 ALARM C × ALARM C AMPS ×	RVISORY TIME REQUIRED 4 HR (AMP-HR) CURRENT TIME REQUIRED 25 HR	CIRCUIT TO SUM	A2 OTAL ALARM IMARY SUPERVISO ALARM TIME BATTERY P BATTERY S	ORY TIME RE E REQUIRED ROVIDED	AMPS) QUIRED———2 2——15 MINS. o WKA12-33J (2) 33	0.352 24 HR r .25 HR		
A = TOTAI 0.198 = B = TOTAI	SUPERV × SUPER AMPS × 2 4.752 ALARM C × ALARM C AMPS ×	RVISORY TIME REQUIRED 4 HR (AMP-HR) CURRENT TIME REQUIRED	CIRCUIT TO SUM	A2 OTAL ALARM IMARY SUPERVISO ALARM TIMI BATTERY P BATTERY S TOTAL SYS	DRY TIME RE E REQUIRED ROVIDED	AMPS) QUIRED——2 2——15 MINS. o WKA12-33J (2) 33 ED (A/H)	0.352 24 HR r .25 HR		
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A = TOTAI 0.198 = B = TOTAI 0.352	SUPERV X SUPER AMPS X 2 4.752 ALARM 0 X ALARM 1 AMPS X 3	RVISORY TIME REQUIRED 4 HR (AMP-HR) CURRENT TIME REQUIRED 25 HR	CIRCUIT TO SUM	A2 OTAL ALARM IMARY SUPERVISO ALARM TIMI BATTERY P BATTERY S TOTAL SYS BATTERY R	DRY TIME RE E REQUIRED ROVIDED	AMPS) QUIRED 15 MINS. o WKA12-33J (2) 33 ED (A/H) AMP/HOUR	0.352 24 HR r .25 HR		

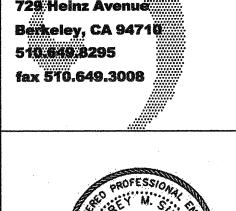
		treat the same and	28,160	AMP-	HOUK	
	VOLTAGE DROP (WORST CA		ONS			·
FORMULA:	VOLTAGE DROP CALCULATIONS (FOR A GIVEN LENGTH OF CONDUC	TOR)	IXD X2 C.M.	1.6		
WHERE:	I = AMPERES PER TERMINAL LOAD					
	D = ONE WAY DISTANCE OF CONDUC (IN FEET) MEASURED FROM SOL OF SUPPLY TO LOAD				WIRE	CIRCULAR MILS (C.M.)
	21.6 = CONSTANT (RESISTANCE OF CO				12 AWG 14 AWG 16 AWG	4110
	C.M. = CROSS SECTIONAL AREA IN CIRC (SEE TABLE AT RIGHT)	CULAR MILS			18 AWG 20 AWG	<u> </u>
GIVEN:	CIRCUIT DESIGNATION		A1 *			
	APPROX LENGTH OF CONDUCTOR	9900 4000	50 FE	ET		
	CURRENT LOAD	2020 Anni	0.352			2000-00-00-00-00-00-00-00-00-00-00-00-00
	WIRE SIZE USED	tops enter	12 A	NG		
	VOLTAGE DROP = $\frac{0.352 \times 50}{6530}$	x 21.6	380.16 6530	<u>so</u> =	0.058	VOLTS
	% OF VOLTAGE DROP = $\frac{0.058}{24}$ VOLTS	$\frac{3}{5} = 0.002$	2426	or	0.243	%
NOTES:	1. THE OPERATING VOLTAGE OF DEVICE	E USED IS 18	TO 31 VD	C.	N. COLOMBIA	

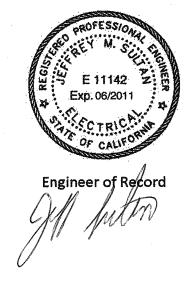
άηγ.	PARTNUMBER	EQUIPMENT LIST	CURRENTLOAD	
1	ASWP-2475W-FR	WEATHERPROOF HORN STROBE	0.168	A1
0	NS-24MCW-FR	15 CANDELA HORN STROBE	0.074	A2
0	NS-24MCW-FR	30 CANDELA HORN STROBE	0.107	
1	NS-24MCW-FR	75 CANDELA HORN STROBE	0.184	
0	NS-24MCW-FR	110 CANDELA HORN STROBE	0.244	

THE RESULTING VOLTAGE DROP IS WITHIN THIS OPERATING RANGE.

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A1		X)		50				0	.35	2				0	24	3	
CKT		DISTANCE (ft.)		-		:UF AE		imt EN	_		VOLTAGE DROP (%)						
	9時間										<i>-</i>						rens s
A	O1	·U/		VO		ΑG	E	DR	OF	C	4L	CS	12	G	ΑŪ	GE	







IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

APPLICATION NUMBER 01-11-16-18

AC PROPERTY OF THE STATE ARCHITECT

CALIFORNIA STATE FIRE MARSHAL APPROVED

CAÑADA COLLEGE

Electrical
Infrastructure
Replacement
Project

4200 Farm Hill Blvd Redwood City, CA 94061

BID SET

SHEET TITLE
FIRE ALARM PANEL

MXLR

REVISIONS

NO. DATE DESCRIPTION

DATE January 14, 2011

DRAWN RB

CHECKED KR

SCALE N/A

JOB NO. 2921.01

FA-03