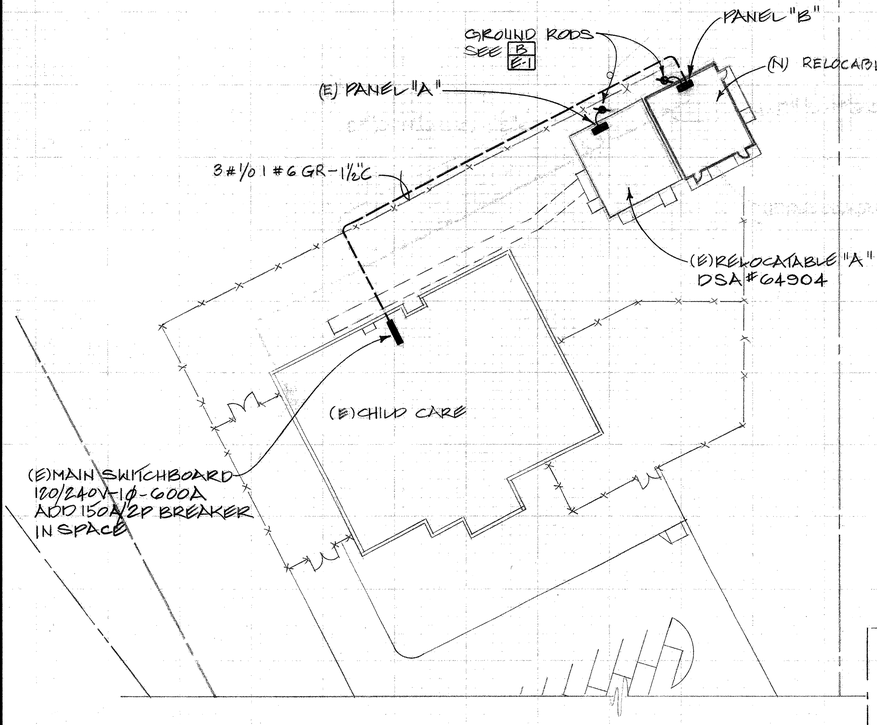
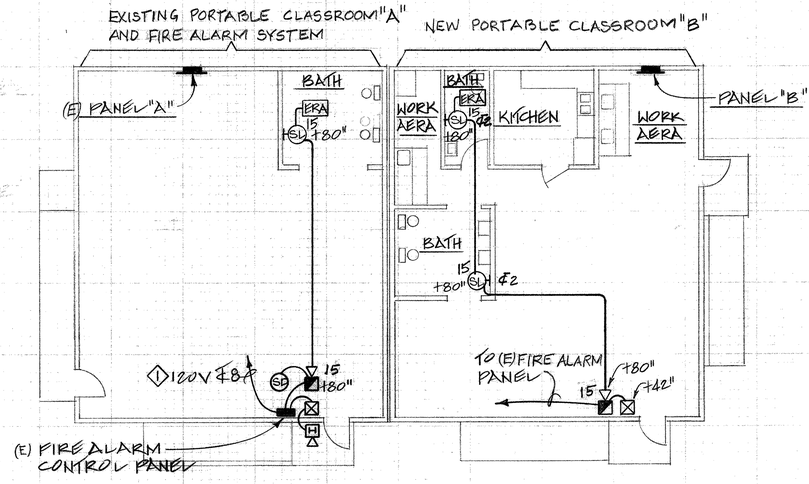
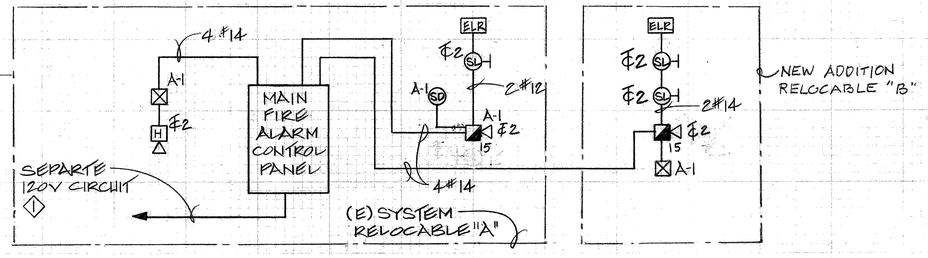


PARTIAL SITE PLAN
SCALE: 1" = 32'-0"



(E) RELOCATABLE "A" FLOOR PLAN
SCALE: 1/8" = 1'-0"

(E) RELOCATABLE "B" FLOOR PLAN
SCALE: 1/8" = 1'-0"



FIRE ALARM WIRING DIAGRAM — A/E1

LEGEND

- FIRE ALARM MANUAL STATION +42"
- FIRE ALARM HORN
- FIRE ALARM VISUAL ALARM +80"
- FIRE ALARM SMOKE DETECTOR
- FIRE ALARM HORN AND STROBE LIGHT. +80"
- SHEET NOTE IDENTIFICATION TAG.
- (N)(E) NEW, EXISTING
- GROUND ROD SEE B/E-1
- ELR END OF THE LINE RESISTER
- NEW CONDUIT RUN CONCEALED IN CEILING OR WALLS
- NEW CONDUIT BELOW GRADE
- SECTION OR DETAIL IDENTIFICATION TAG.

SHEET NOTES

1. ADD 15A/1P BREAKER WITH LOCKOUT IN EXISTING SPACE-CIRCUIT #8
2. PROVIDE 3 PLUSE TEMPORAL PATTERN

FIRE ALARM EQUIPMENT LIST

EDWARDS CAT. NO.	DESCRIPTION	NOTE	CSFM	QUANTITY
EST1-1Z1	MAIN FIRE ALARM CONTROL PANEL	2	7165-1388:179	EXISTING
270-DPO	MANUAL PULL STATION		7150-1388-121	1(E) 1(N)
6250B	SMOKE DETECTOR		7271-1388-119	1(E)
757 SERIES B"	15CD HORN/STROBE		7135-1388-213	1(E) 1(N)
405-5A	15CD STROBE		7125-1388-208	1(E) 2(N)
757-1AT	TEMPOAL HORN ON W.P. BOX 757-WB		7135-1388-213	1(E)

FIRE ALARM TEST SHALL BE MADE WITH THE DSA INSPECTOR OF RECORD (IOR) LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE & TIME OF FINAL F.A. TESTING & SHALL ASSIST/WITNESS SUCH TESTING WHEN ABLE

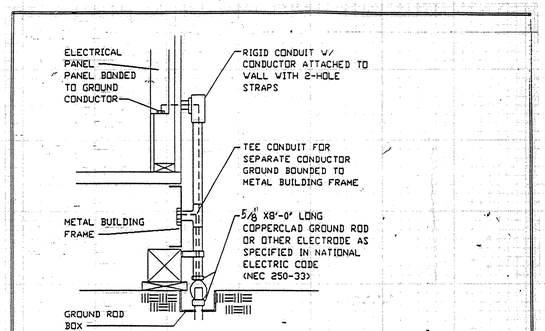
GENERAL NOTES

- ~~Final fire alarm test shall be witnessed by the local fire authority with the DSA Inspector of Record.~~
- Underground and exterior conduits will have watertight fittings.
- Fire Alarm Device Mounting Heights:
  - Pull station: 48" to centerline of device above finished floor.
  - Wall mounted strobe or horn/strobe: 80" to bottom of device and not greater than 96" above finished floor, not less than 6" from ceiling.
- Audible devices shall be at least 15 dBA above average ambient sound level but not less than 75 dBA at 10', or more than 110 dBA in total, **throughout.**
- Audible devices shall sound the California Uniform Fire Alarm Signal in temporal mode.
- Visual devices shall not exceed 2 flashes per second and shall not be slower than 1 flash every second.

OPERATION OF MANUAL PULL STATION OR AERA SMOKE DETECTOR:

1. ANNUNICATE ALARM AND TROUBLE AT FACP
2. ACTIVATE ALL AUDIBLE AND VISUAL ALARMS

FIRE ALARM CONTRACTOR SHALL PROVIDE A "RECORD OF COMPLETION" TO THE INSPECTOR OF RECORD(IOR)/DSA AFTER COMPLETION OF OPERATIONAL ACCEPTANCE TESTS (1996 NFPA 72 SECT. 1-7.2.1 & FIG 1-7.2.1



1. SIZE OF CONDUCTORS SHALL COMPLY WITH NEC TABLE 250-95.
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL BUILDING FRAME (NEC 250-81).
   IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10 FT. INTO THE SOIL IF AVAILABLE (NEC 250-81 & 250-83).
3. ALL MODULES OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER. (BOLTING ONLY IS NOT ACCEPTABLE BONDING.)
4. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS (NEC 250-84) AS REQUIRED.

OSHPD/OSA STANDARD DETAILS	DESCRIPTION: ACCEPTABLE GROUNDING DETAIL (B/E-1)	SCALE: 1"=1'-0"	DETAIL: IR8-1
		DRAWN: DIBBLE	DATE: 4/23/90

Battery Calculations

Power Supply Location: EST1 FACP RM

HOURS OF SUPERVISION	24
MINUTES OF ALARM	5

PANEL CURRENT	QTY	STANDBY CURRENT (AMPS)	CURRENT (AMPS)	ALARM CURRENT (AMPS)
EST1	1	0.055	0.055	0.1	0.4
2 ZONE INPUT MOD	1	0.016	0.016	0.045	0.045
RELAY MODULES	0	0.016	0	0.076	0
STYLE D IDC CONV	0	0	0	0.04	0
ANNUNCIATOR MSTER	0	0.005	0	0.016	0
REMOTE TRBL UNIT	0	0.01	0	0.01	0
DEVICE CURRENT					
6250B DETECTOR	1	0.03	0.03	0.05	0.05
270-SPO PULL STATION	2	N/A	N/A	0.05	0.1
STROBE 15cd	3	N/A	N/A	0.075	0.225
STROBE 30cd	0	N/A	N/A	0.115	0
STROBE 60cd	0	N/A	N/A	0.155	0
STROBE 110cd	0	N/A	N/A	0.254	0
HORN/STROBE 15cd	1	N/A	N/A	0.115	0.115
HORN/STROBE 30cd	0	N/A	N/A	0.155	0
HORN/STROBE 60cd	0	N/A	N/A	0.195	0
HORN/STROBE 110cd	2	N/A	N/A	0.295	0.59
TOTAL			0.101		1.525

CKT 1B
EST1

TOTAL VOLTAGE DROP	.69%
Total Wire Length	128 FT
Total Current	.45 Amps

Device ID	Segment Length	mAmps	Volts Available	Current Per Segment	% Drop Per Segment	Volt Drop Per Segment
1B-1	56	295	23.874	0.45	0.126	0.523
1B-2	36	75	23.847	0.15	0.027	0.113
1B-3	36	75	23.834	0.08	0.014	0.057
	0	0	23.834	0.00	0.000	0.000
	0	0	23.834	0.00	0.000	0.000
	0	0	23.834	0.00	0.000	0.000
	0	0	23.834	0.00	0.000	0.000
	0	0	23.834	0.00	0.000	0.000
	0	0	23.834	0.00	0.000	0.000
	0	0	23.834	0.00	0.000	0.000
	0	0	23.834	0.00	0.000	0.000
	0	0	23.834	0.00	0.000	0.000
	0	0	23.834	0.00	0.000	0.000

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPLOT 104083
SC RS SS
DATE

Total Supervisory Current	0.101
Stand-By Hours	24
Sub- Total	2.424
Total Alarm Current	1.525
Alarm Minutes	5
Sub- Total	0.127
Total Supervisory Current	2.424
Total Alarm Current	0.127
Derate Factor 20%	0.510

Grand Total AMP Hrs required 3.0613

BATTERY PROVIDED 4.5 AMP HOURS

LICENSED ARCHITECT KENNETH N. PURTELL 30143 2/28/93 RENEWAL DATE STATE OF CALIFORNIA

REVISIONS	BY

ALFRED M. MARION
ELECTRICAL ENGINEER
OFF: 650-593-7796
1182 LAUREL STREET
SUITE 204
SAN CARLOS, CA 94070
FAX: 650-593-4691

RELOCATABLE CLASSROOMS
SKYLINE COLLEGE
3300 COLLEGE DRIVE SAN BRUNO, CA.
SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT

CHILD CARE PORTABLES
ELECTRICAL POWER AND FIRE ALARM PLAN

DATE
SCALE AS NOTED
DRAWN LMH/AMM
JOB
SHEET E-1
OF 1 SHEETS 1

9942

DATAPRINT.COM 700 SO. CLAREMONT ST. SAN MATEO, CA 94402

STOCKDRAFTING FORM NO. 101-55