



GENERAL NOTES - ALL SITES

- ALL WORK AT SIGNAL SYSTEM HEAD END EQUIPMENT IS BY OWNER.
- SPEAKERS (INTERIOR AND EXTERIOR)/HANDSETS/HEAT AND SMOKE DETECTORS AND DIGITAL FIRE ALARM DIALERS WILL BE PROVIDED TO CONTRACTOR BY OWNER. INSTALLATION IS BY CONTRACTOR.
- BATTERY CLOCKS ARE PROVIDED/INSTALLED BY OWNER.
- INTRUSION ALARM, TV, DATA WORK IS BY OWNER.

ELECTRICAL SYMBOLS (1)
ALL DIMENSIONS TO CENTER OF BOX, U.O.N.

---	CONDUIT RUN IN WALL OR ATTIC (1/2" C - 2 #12 AWG THMN + 1 #12 GND)
---	CONDUIT RUN IN FLOOR OR UG (1/2" C - 2 #12 AWG THMN + 1 #12 GND)
---	CONDUIT STUB - CAPPED AND LABELED.
①	ELECTRICAL KEYNOTE #1, REFER TO NOTES ON SAME SHEET.
U.O.N.	UNLESS OTHERWISE NOTED
N.P.	NEATHERPROOF
▭	TERMINAL CABINET (SIZE AS SHOWN)
▭	ELECTRICAL PANELBOARD
⊙	JUNCTION BOX

ELECTRICAL SYMBOLS NOTES:
(1) SEE FIRE ALARM/INTERCOM LEGEND FOR FIRE ALARM AND INTERCOM SYMBOLS.

SEISMIC ANCHORAGE REQUIREMENTS

ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA:

EQUIPMENT ON GRADE TO COMPLY WITH 1990 CBC, TITLE 24, SECTION #1632A

EQUIPMENT ON STRUCTURE

FOR FLEXIBLY MOUNTED EQUIPMENT, USE 4 X THE ABOVE VALUES, AND FOR SIMULTANEOUS VERTICAL FORCE USE 1/3 X THE HORIZONTAL FORCE. THE ABOVE VALUES ARE FOR AN IMPORTANCE FACTOR OF I = 1.0 AND SEISMIC ZONE, Z = 0.4.

FOR MULTI-PURPOSE BUILDINGS, PERCENTAGE OF OPERATING WEIGHT SHALL BE 125% OF VALUES NOTED ABOVE.

WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ELECTRICAL ENGINEER AND THE FIELD ENGINEER OF THE DIVISION OF THE STATE ARCHITECT.

FIRE ALARM/INTERCOM LEGEND

- EXISTING FIRE ALARM CONTROL PANEL RAULAND #FIREPLEX (SECUREPLEX) (CSFM #1165-0082:103).
- INTERIOR SPEAKER - CEILING MOUNTED RAULAND #U50221 WITH #ACC1001 BAFFLE AND #ACC1104 T-BAR SUPPORT (CSFM #7320-0082:100).
- EXTERIOR SPEAKER - WALL MOUNTED ATLAS #AP-15TU WITH LOWELL #CB86-6 WEATHERPROOF BACKBOX AND LOWELL #50LK-8-APF VANDAL-RESISTANT GRILLE (CSFM #7320-1173:101).
- DIGITAL DIALER SILENT KNIGHT #5104 (CSFM #1165-0559:114).
- SMOKE DETECTOR, CEILING MOUNTED HOCHIKI #SLR-24V DETECTOR HEAD WITH #N5-6 BASE (CSFM #1272-0410:107 AND #1300-0410-132).
- FIXED TEMPERATURE HEAT DETECTOR, MOUNT IN ATTIC RAULAND #FA302 (190°F) HEAT DETECTOR WITH #FAB210 BASE (CSFM #1270-0082:110 AND #1300-0082-105).
- 15 CANDELA STROBE - WALL MOUNTED WHEELLOCK #R5524MCM-FR (CSFM #1125-0785:159).
- RESISTOR, 1K, 1/4H RAULAND #1347
- END-OF-LINE RESISTOR, 20K, 1/4H RAULAND #1346
- INTERCOM TELEPHONE HANDSET RAULAND #TC4312

FIRE ALARM/INTERCOM LEGEND NOTES:
(1) 24 HR. U.L. LISTED MONITORING TO BE COORDINATED BY THE OWNER.

EXISTING FIRE ALARM CONTROL PANEL BATTERY CALCULATION

	QUANTITY	SUPPLY CURRENT EACH	ALARM CURRENT EACH	SUPPLY CURRENT SUB-TOTAL	ALARM CURRENT SUB-TOTAL
FIRE ALARM CONTROL PANEL	1	.6	.7	.6	.7
EXISTING FA3120 STATION PANEL	2	.03	.03	.06	.06
EXISTING FA3125 STATION PANEL	1	.03	.03	.03	.03
EXISTING AMPLIFIER	1	.185	11.0	.185	11.0
EXISTING STROBES	15	0	.00	0	1.2
EXISTING SMOKE DETECTORS	1	.00045	.01	.00045	.01
NEW SMOKE DETECTORS	16	.00045	.01	.00072	.16
NEW 15 CANDELA STROBE	4	0	.051	0	.204
TOTALS				.88	13.36

TOTAL ALARM CURRENT OF 13.36 x .003 (5 MINUTES) = 1.11 A.H.
TOTAL SUPERVISORY CURRENT OF .88 x 24 HOURS = 21.12 A.H.
TOTAL AMP HOURS REQUIRED = 22.23 A.H.
x 1.2 SAFETY FACTOR = 26.67 A.H.

SYSTEM HAS 28.0 AMP HOUR BATTERIES EXISTING THEREFORE THERE IS A ADEQUAT CAPACITY

COMPLETE AUTOMATIC FIRE ALARM PLAN SUBMITTAL

THE FIRE ALARM SYSTEM SHOWN ON THESE PLANS HAS BEEN SUBMITTED AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT. ANY SUBSTITUTION OF THE FIRE ALARM SYSTEM SHALL BE RESUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL PAY ANY ADDITIONAL FEES THAT ARE INCURRED DUE TO THIS SUBSTITUTION.

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IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATIONS SERVICES

APPL. NO. 03-107512
FILE NO. 15-6

AC. F.L.S. E.V. S.S. A.S.
DATE JAN 2 2004

PTN #63321-16
PORTABLES AT:

CHIPMAN JR HIGH FOR BAKERSFIELD CITY SCHOOL DISTRICT

2301 PARK DRIVE BAKERSFIELD, CALIFORNIA 93306

MARK	DATE	DESCRIPTION
SD	/ /	DISTRICT REVIEW
CD		

JOB NUMBER: 2002848
CADD FILE: E
DRAWN BY: EMS
CHECKED BY: JOX
CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT.
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