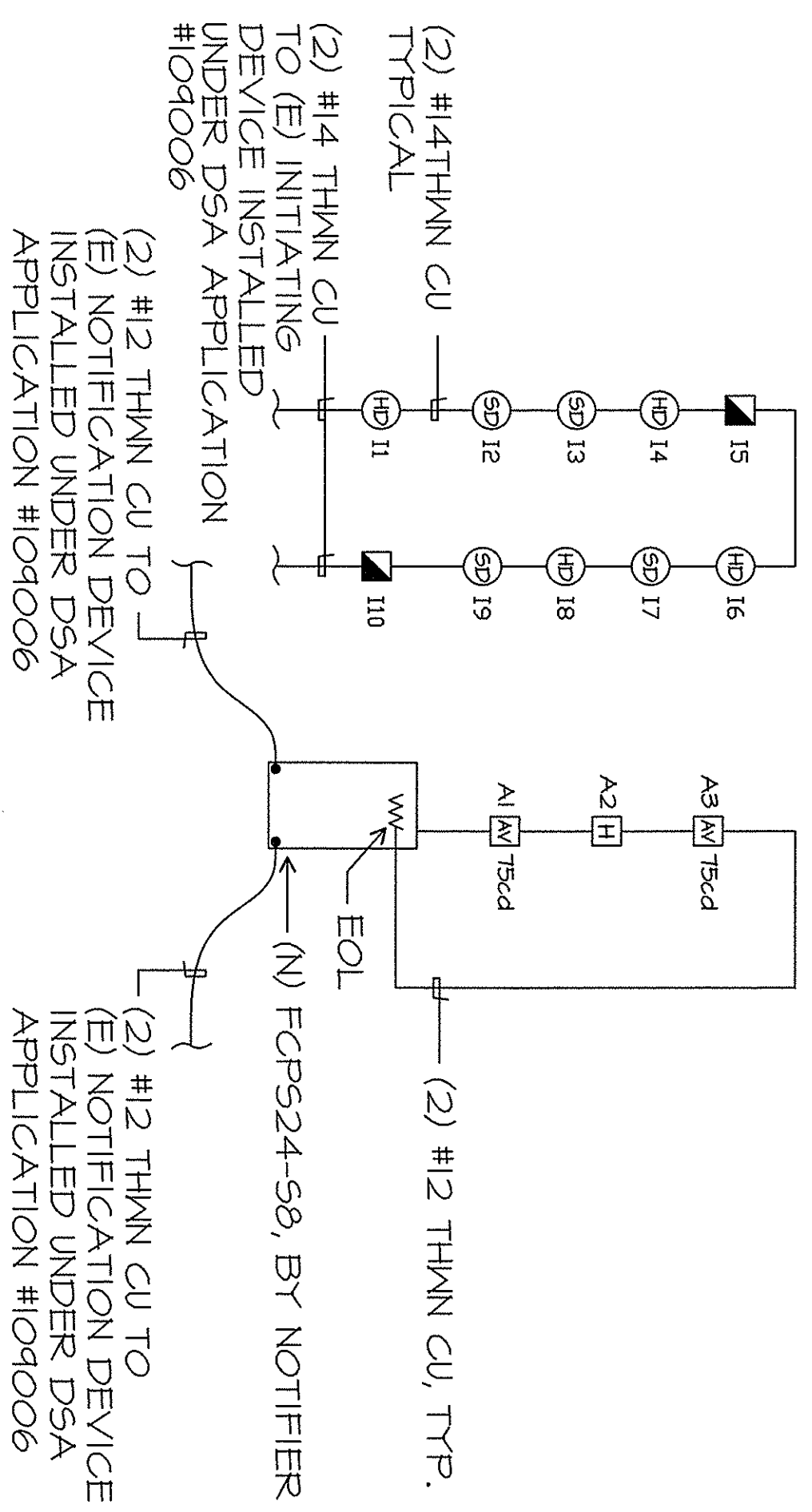


FIRE ALARM RISER DIAGRAM



A#03-19Q06G CERTIFICATION IS PROVIDED ON THE PERIOD OF DSA FORMS TO OUR OFFICE (PAM)
A#03-181193 FIREARMS SYSTEM STILL BE TESTED AND CERTIFIED AFTER A#03-19Q06G
HAS BEEN TESTED AND CERTIFIED

END PAGE TWO

VOLTAGE DROP CALCS

WIRE DATA : USING #12 AWG. THIN WIRE AT 6520 CIR. MILS

: FA BOOSTER PANEL, TO SIGNAL CIRCUIT #1

HORN $0.069 \times 1 = 0.069$

CURRENT : STROBE LIGHT 30cd $0.094 \times 2 = 0.188\text{A}$
SUB TOTAL = 0.257A

$$\text{VOLTAGE DROP} = \frac{2 \times 0.257\text{A} \times 280\text{FT} \times 2.05}{1000} = 0.30$$
$$\%VD = 0.30 / 24V \times 100\% = 1.25\%$$

BATTERY CALCS

STAND BY

NF5-320 FIRE ALARM PANEL

$$= q_{lmA}$$

SUBTOTAL = 91mA
x 24 HOURS = 2.24AH

ALARM

NF5-320

FIRE ALARM PANEL = 0.145A

MP HORN

MP HORN

$$= 0.069 A$$
$$\begin{aligned} \text{SUBTOTAL} &= 0.402\text{A} \\ \times 5\text{min } (0.0833) &= 0.034\text{Ah} \\ (2.2 + 0.034) 1.2 &= 2.68\text{Ah} \\ \text{SYSTEM BATTERY} &= 7.0\text{Ah} \\ \text{SPARE} &= 4.0\text{Ah} \end{aligned}$$

FA SYMBOL LIST MATRIX

SYMBOL	DEVICE	MFR. & CAT. N.	REMARKS	CSFM LISTING
⑤B	SMOKE DETECTOR	NOTIFIER 2151	PROVIDE BASE BATTERY ON 4"X4. DEEP BOX	72712-16553;122
⑤A	HORN STROBE	NOTIFIER P2R-300d	4"X4. DEEP BOX	7125-16553;188
⑤N ¹ PE	EXTERIOR HORN	NOTIFIER HRR-1504BA	MBB 346"	7125-16553;188
⑤B	HEAT DETECTOR	NOTIFIER 5602	PROVIDE 4"X4. DEEP BOX	72710-16553;167
■	FIRE ALARM PANEL	NOTIFIER FCFB-2456	SURFACE MOUNT IN PORTABLE	7315-0026;225
■	PULL STATION	NOTIFIER NBG-12	4"X4. DEEP BOX	7150-0026;194

OPERATION MATRIX

DEVICE	MANUAL PULLSTATION	SMOKE DETECTOR	POWER FAILURE
ACTIVATE			
ANNUNCIATOR AT FIRE ALARM PANEL	YES	YES	YES
ACTIVATE FIRE ALARM SIGNAL	YES	YES	NO

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans and the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Fawcett & Moody.

2 24'x40' MODULAR BUILDINGS
AT CESAR E. CHAVEZ E.S.
4201 MESA MARIN DRIVE
BAKERSFIELD, CA 93306

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BAKERSFIELD, CA 93306

BAKERSFIELD CITY SCHOOL DISTRICT

FIRE ALARM PLAN

2237

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10-1-2007