

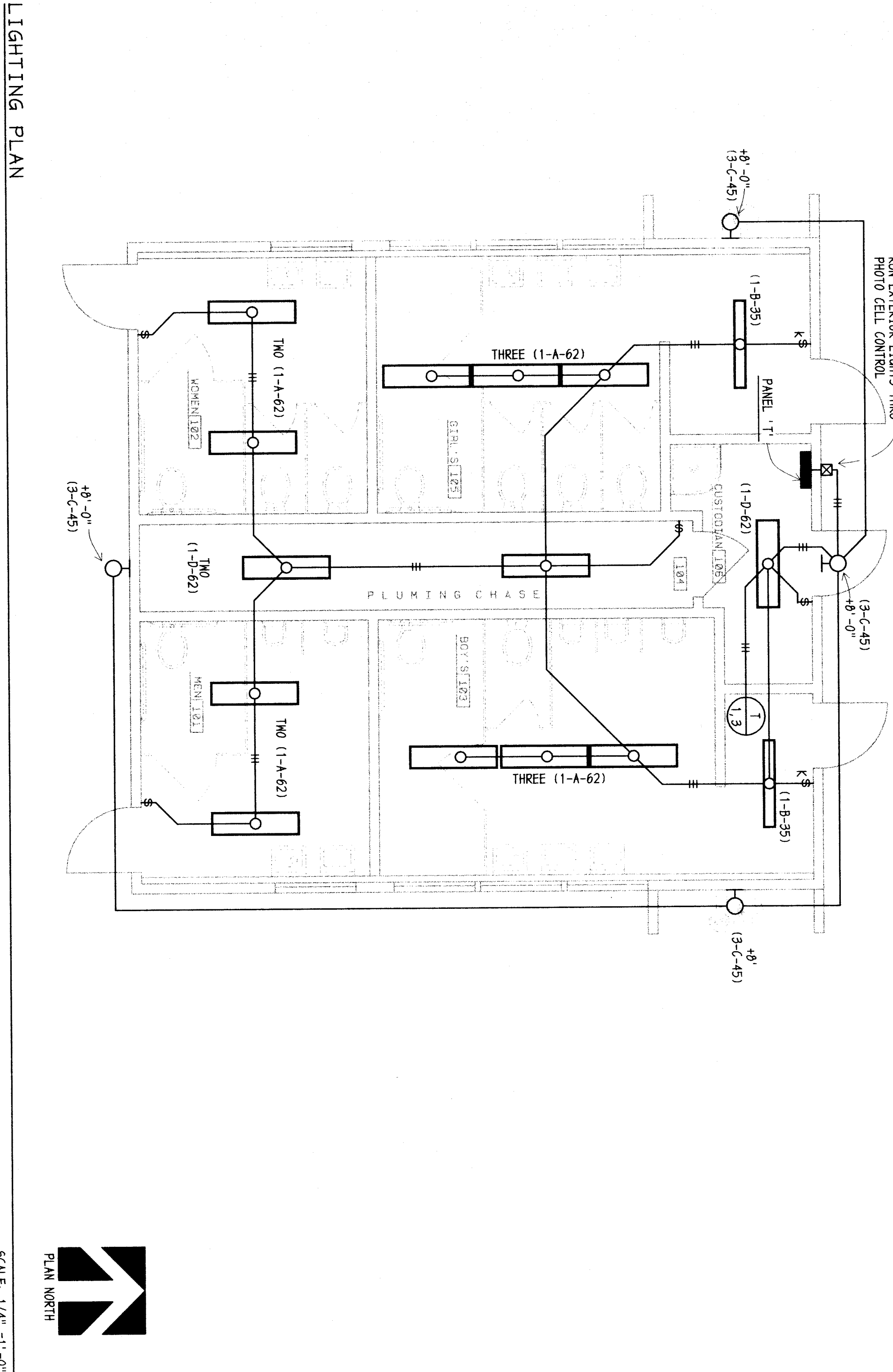
NO.	REV.	DESCRIPTION	DATE
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TYPE	AMPS	VOLTS	MANUFACTURER	CATALOG NO.	NOTES
A	62	2-255 10	FS RC 64 H	W50	SURFACE HIGH ABUSE
B	39	1-255 10	FS RC 33 H		SURFACE HIGH ABUSE
C	45	42M TIT	CT 6C 42H - V50		MALL HIGH ABUSE
D	62	2-255 10	M6 232A		CEILING

FIGURE SCHEDULE

FIGURE SYMBOL (3-A-62): 3 = CIRCUIT NUMBER, 1 = FIGURE TYPE, 62 = FIGURE ATTACHE

ALL FIGURE SYMBOLS TO BE SHOWN ON ELECTRICAL SCHEDULES AND ALL FIGURE SYMBOLS TO BE SHOWN ON ELECTRICAL SCHEDULES.



LIGHTING PLAN

SCALE: 1/4\"/>

FIXTURE SCHEDULE

BATTERY CALCULATIONS:

BATTERY AMP HOURS REQUIRED:
24 HOURS IN STANDBY CONDITION
5 HOURS IN ALARM CONDITION

EXISTING FIRE ALARM MASTER PANEL "FAMP".
NO DEVICES ARE BEING ADDED, EXISTING CONDITIONS TO REMAIN THE SAME.

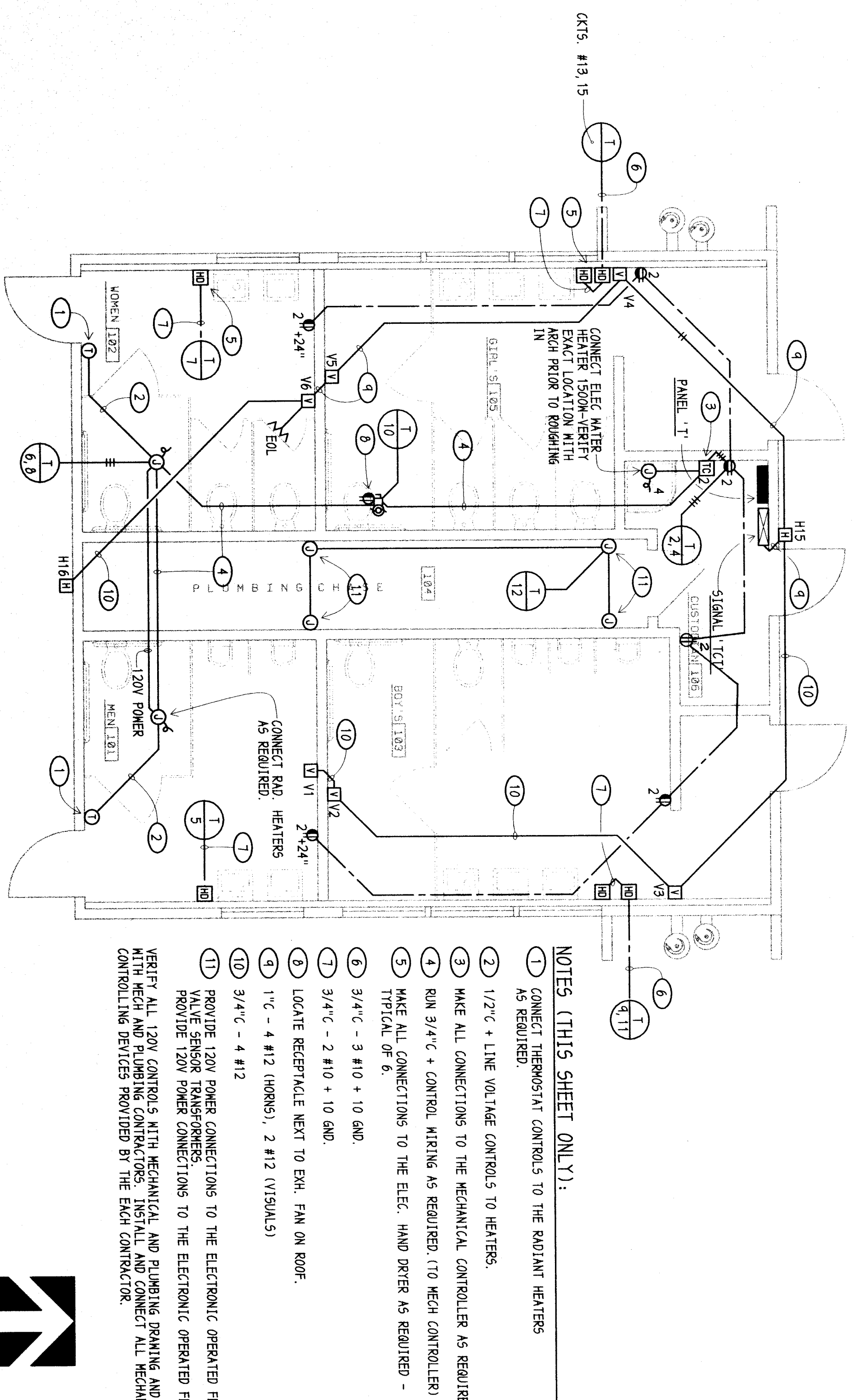
SIGNAL EXTENDER PANEL:

STANDBY CURRENT (AMPS)	ALARM CURRENT (AMPS)
0.00	1.00
0.00	0.20
0.00	0.20
0.00	0.06
0.00	1.46
0.00	0.70
0.00	0.20
0.00	1.30
0.00	1.60
0.00	1.80
0.00	1.90
0.00	2.00
0.00	2.10
0.00	2.20
0.00	2.30
0.00	2.40
0.00	2.50
0.00	2.60
0.00	2.70
0.00	2.80
0.00	2.90
0.00	3.00
0.00	3.10
0.00	3.20
0.00	3.30
0.00	3.40
0.00	3.50
0.00	3.60
0.00	3.70
0.00	3.80
0.00	3.90
0.00	4.00

PROVIDE 4.0 AMP HOUR BATTERIES IN PANEL.

SYSTEM OPERATION:

CONNECT THE BATTERY CABLES TO EXISTING FIRE ALARM SYSTEM, SYSTEM TO COMPLY WITH PART 2-609 AND PART 9 ARTICLE 760 OF CALIFORNIA CODE OF REGULATIONS.



POWER AND SIGNAL PLAN

SCALE: 1/4\"/>

NOTES (THIS SHEET ONLY):

- CONNECT THERMOSTAT CONTROLS TO THE RADIANT HEATERS AS REQUIRED.
- 1/2\"/>

ELECTRICAL SYMBOLS

ALL DIMENSIONS TO CENTER OF BOX, U.O.N.

- () CONDIT RIN IN MALL OR ATTIC (1/2\"/>

FIRE ALARM SYSTEM VOLTAGE DROP CALCULATIONS

VOLTAGE DROP = $\frac{2 \times \text{CURRENT} \times \text{WIRE LENGTH} \times \text{CIR. HIL.}}{\text{CIR. HIL.}}$

VOLTAGE DROP % = $\frac{\text{APPLIED VOLTAGE} \times 100}{\text{CIR. HIL.}}$

V.D. = $\frac{176 \times 650 \times 21.6}{650} = 37 \text{ VOLTS}$

V.D. = $\frac{37}{24} \times 100 = 1.54 \text{ ANNUCATION HOON Ckt HI}$

V.D. = $\frac{10 \times 420 \times 21.6}{650} = 55 \text{ VOLTS}$

V.D. = $\frac{55}{24} \times 100 = 2.29 \text{ ANNUCATION HOON Ckt H2}$

V.D. = $\frac{30 \times 111 \times 21.6}{650} = 76 \text{ VOLTS}$

V.D. = $\frac{76}{24} \times 100 = 3.16 \text{ ANNUCATION VISUAL Ckt VI}$

CALCULATIONS ARE BASED ON VOLTAGE DROP OCCURRING AT FURTHEST DISTANCE FROM FIRE ALARM SIGNAL TRANSFER PANEL.

FIRE ALARM SYSTEM SEQUENCE OF OPERATIONS

RESULT OF OPERATION	INITIATION	LOSS OF SIGNAL	RESTART
MANUAL PULL STATION	YES	NO	NO
ANNUNCIATE ALARM	YES	YES	NO
ANNUNCIATE TROUBLE	YES	YES	NO
ACTIVE ALL AUDIBLE ALARMS	YES	YES	NO
TRANSFER TO BATTERY BACK-UP	YES	YES	NO

COMPLETE MANUAL FIRE ALARM PLAN SUBMITTAL

THE FIRE ALARM SYSTEM SHOWN ON THESE PLANS HAS BEEN SUBMITTED AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT. THE SUBSTITUTION OF OTHER MATERIALS OR EQUIPMENT SHALL BE AT THE ADDITIONAL RISK OF THE OWNER INCURRED DUE TO THIS SUBSTITUTION.

FIRE ALARM LEVEL OF AUDIBILITY

ALARMS INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL BE SO LOCATED AND CONSTRUCTED AS TO CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15 DB ABOVE AMBIENT NOISE LEVELS MEASURED FOR THE LOCATION OF THE DEVICES.

AMBIENT NOISE LEVELS SHALL BE MEASURED IN A QUIET AREA WHERE A PERSON SHOULD BE EXPECTED TO BE PRESENT AT WORKING CONDITIONS.

NOISE LEVELS SHALL BE MEASURED AT THE FOLLOWING CONDITIONS:
(A) QUIET ROOM
(B) QUIET ROOM WITH AMBIENT NOISE
(C) QUIET ROOM WITH AMBIENT NOISE AND REVERBERATION
(D) QUIET ROOM WITH AMBIENT NOISE AND REVERBERATION AND REVERBERATION
(E) QUIET ROOM WITH AMBIENT NOISE AND REVERBERATION AND REVERBERATION

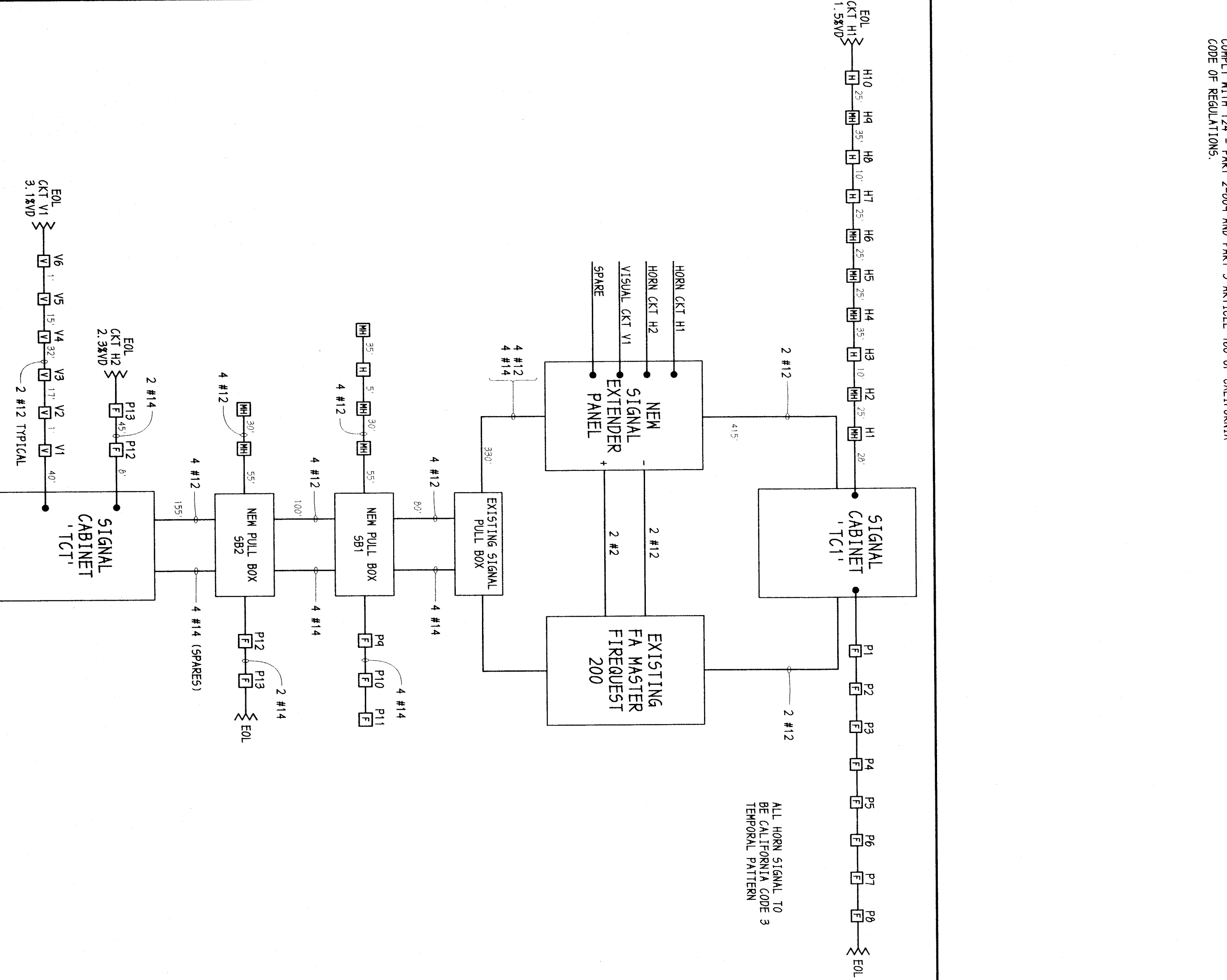
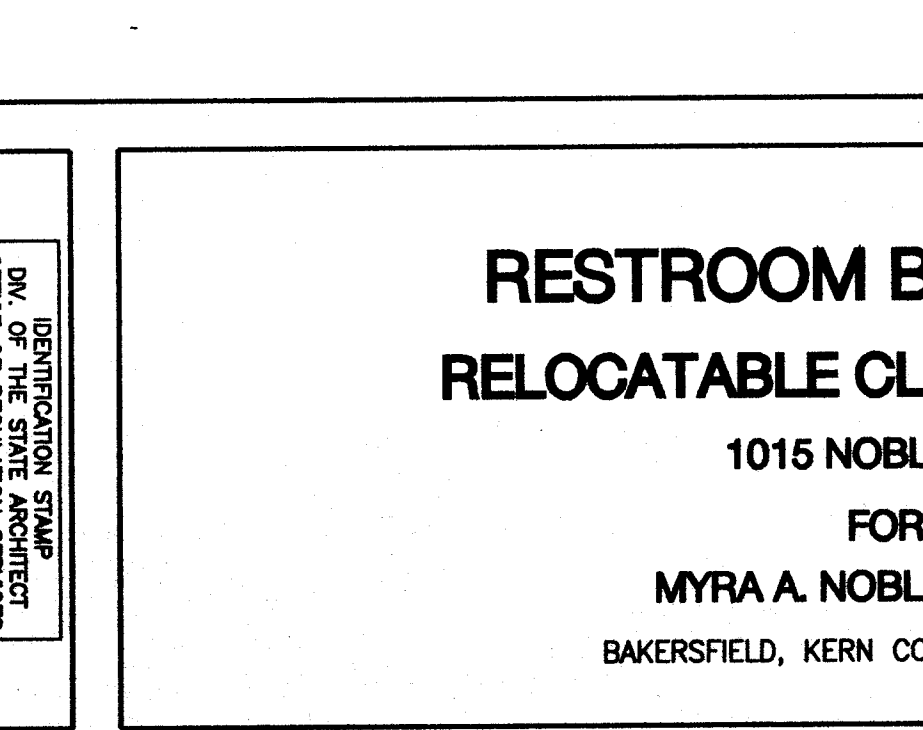
FIRE ALARM SYSTEM REQUIREMENTS

THE FIRE ALARM SYSTEM SHALL CONFORM TO CALIFORNIA BUILDING CODE SECTION 202.9, CALIFORNIA ELECTRICAL CODE, ARTICLE 760 AND CALIFORNIA FIRE CODE ARTICLE 10.

THE INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE INSTALLED UNTIL THE FIRE ALARM COMPONENT SUBMITTAL HAS BEEN APPROVED BY DIVISION OF THE STATE ARCHITECT - OFFICE OF REGULATION SERVICES.

UPON COMPLETION OF THE INSTALLATION OF THE FIRE PROTECTIVE SIGNALING EQUIPMENT, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ARCHITECT AND THE STATE ARCHITECT. THE TEST SHALL BE CONDUCTED AT THE LOCATION OF THE DEVICES AND SHALL BE CONDUCTED AT THE LOCATION OF THE DEVICES. ADDITIONAL FIRE ALARM SIGNALING DEVICES MAY BE REQUIRED BY THE ENGINEERING AGENCY FOR CALIFORNIA FIRE CODE.

A CERTIFICATE OF COMPLETION SHALL BE PROVIDED TO THE OWNER PER MPA 12, CHAPTER 1 AND THE CALIFORNIA FIRE CODE.



FIRE ALARM RISER DIAGRAM

SCALE: NONE

RESTROOM BUILDING RELOCATABLE CLASSROOMS
1015 NOBLE AVE
FOR MYRA A. NOBLE SCHOOL
BAKERSFIELD, KERN COUNTY, CALIFORNIA

BEFORE PROCEEDING WITH THE WORK, REPORT DISCREPANCIES TO THE ARCHITECT. ALL WORK SHALL CONFORM TO THE C.C.R.C.

MARK	DATE	REVISIONS

JOB NO. 976
DRAWN: [Signature]
CHECKED: [Signature]
DATE: 12/19/00

3 OF 18 SHEETS

REGISTERED PROFESSIONAL ARCHITECT
CONNELLS CONSULTING GROUP, INC.
Consulting Electrical Engineers
Van Nuys, California 91411-9105

BOILERMAKERS
BAKERSFIELD, CA 93301
PH: (661) 327-6232
FAX: (661) 327-2339

ARCHITECT
OFFICE OF REGULATION SERVICES
MPS-03-104224
FILE 15-5
DATE: 12/19/00