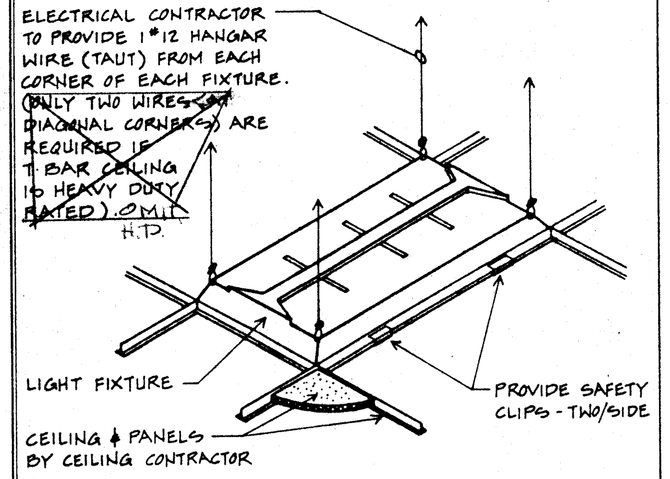
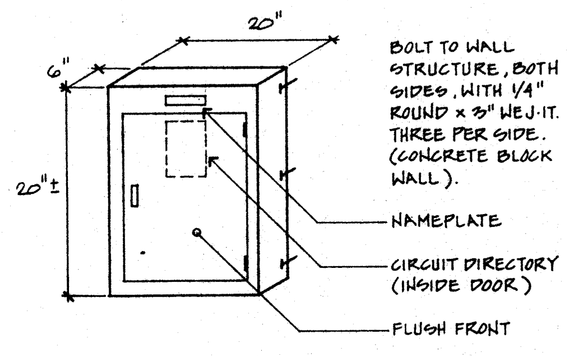
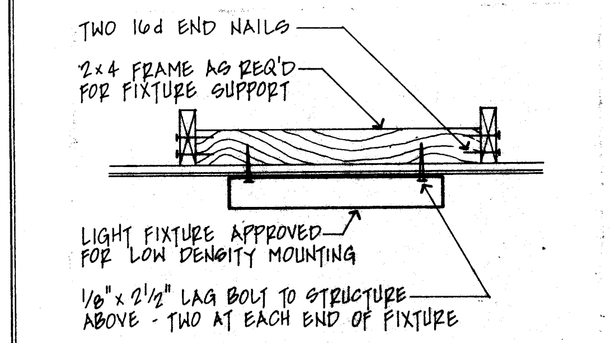


1 / E2 **FIXTURE "A" MOUNTING**
NO SCALE



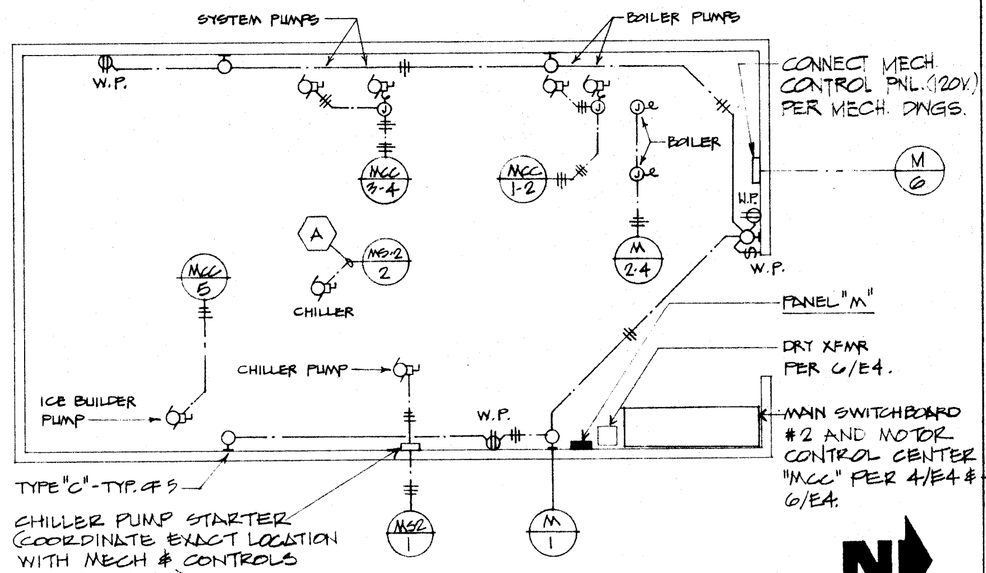
3 / E2 **SURFACE MT'D PANEL**
PANEL "M" (AT MECH. EQUIP. YARD) NO SCALE



2 / E2 **FIXTURE "B" MOUNTING**
NO SCALE

NOTES (THIS SHEET ONLY)

1. REMOVE EXISTING FIRE ALARM DEVICE. BLANK OFF BOX, PULL OUT IDLE WIRE. (NOTE: EXISTING WIRING RUNS IN SAME CONDUIT AS CLOCK WIRING. VERIFY ROUTE AT SITE.) REMOVE ANY EXPOSED EMPTY CONDUIT. REPULL EXIST'G CONDUCTORS REMAINING AS REQ'D.
2. VERIFY CONDUIT ROUTE AT SITE, CONCEAL IN ATTIC/WALLS WHERE POSSIBLE. WHERE NOT POSSIBLE TO CONCEAL INSIDE BUILDING USE SURFACE RACEWAY (WIREMOLD #700. PAINT TO MATCH ADJACENT SURFACE).
3. TO NEW FIRE ALARM MASTER.
4. REPLACE INTERIOR BUS AND BREAKERS WITH NEW PER 1/E4.
5. CONNECT UNIT VENTILATOR - SEE MECH. DRAWINGS.
6. RUN NEW FEED IN TRENCH WITH MECH. PIPING - SEE MECH. DRAWINGS FOR ROUTE.
7. CONNECT TO TWO NEW 20/1 BREAKERS IN EXIST'G PANEL - SEE 1/E4.
8. RELOCATE EXISTING CLOCK TO CLEAR NEW CEILING. PROVIDE CONDUIT, WIRE AND BOX AS REQUIRED (MATCH EXISTING). BLANK OFF EXISTING BOX. CONTRACTOR MAY FLUSH IN DEVICE OR SURFACE MOUNTED, WITH CONCEALED CONDUIT TO EXISTING BOX AT CONTRACTOR'S OPTION.
9. DISCONNECT EXIST'G MECH. EQUIP. BEING REMOVED (SEE MECH. PLANS). RE-ROUTE AND RECONNECT ANY FEED-THRU CIRCUITS, FULL CUT ANY IDLE WIRE, REMOVE ANY EXPOSED EMPTY CONDUIT.



5 / E2 **PARTIAL ELECTRICAL PLAN - MECH. EQUIP. YARD**
SCALE: 1/8"=1'-0"

AT MECH. EQUIP. YARD

120/240 VOLTS 1 Ø 3 WIRE — 10,000 BREAKER A.I.C.
60 A. BUSSING 60 A. MAIN BKR. — 6" MAX. ENCL. DEPTH
12 CIRCUIT — SURFACE MOUNTING
BOLT-ON — WEATHERPROOF

PANEL "M"

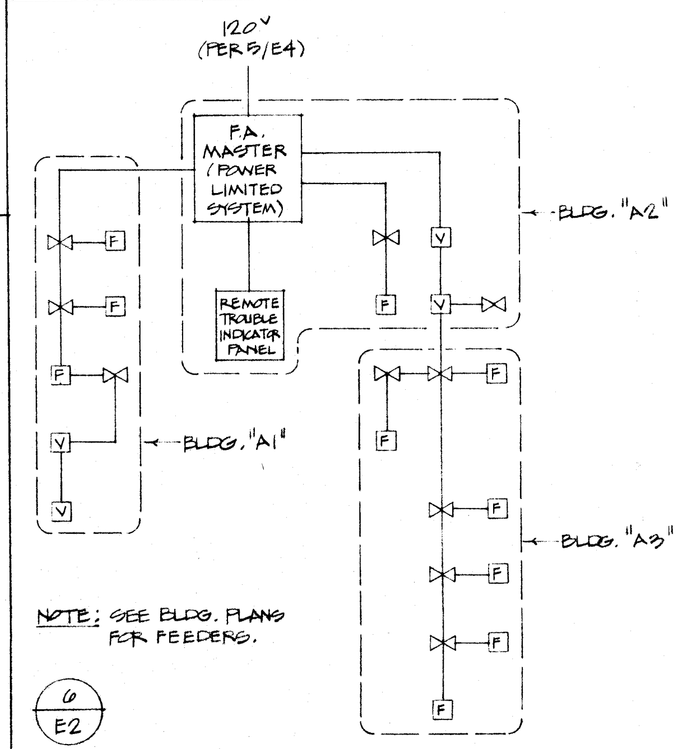
CIR	BKR	LOAD ØA	LOAD ØB	V.A.	DESCRIPTION	DESCRIPTION	LOAD ØB	LOAD ØA	V.A.	BKR	CIR
1	20/1	1500			LIGHTS, CONV. OUTL.	BOILER		1200		20/1	2
3			500		SPARE		1200				4
5		500			↓	MECH. CONTROL		500			6
7											8
9											10
11											12

FIXTURE SCHEDULE

FIXTURE SYMBOL (3-A-150): 3 = CIRCUIT NUMBER, A = FIXTURE TYPE, 150 = FIXT. WATTAGE
ALL FLUORESCENT LAMPS TO BE "WATT-MISERS" OR EQUAL (U.O.N.) *
ALL FLUORESCENT BALLASTS TO BE MARK III ENERGY SAVERS (U.O.N.)

TYPE	WATTS	LAMPS	VOLT.	MANUFACTURER	CATALOG NO.	MOUNT	NOTES
A	100	2-F40	120V	LITHONIA	2GT240 A12	FLUSH T-BAR	PER 1/E2
B	100	2-F40		LITHONIA	2SC240 A	SURF.	PER 2/E2
C	60	60W IF		MARCO	BN2	WALL 16'-6"	
D	50	MANUF REC		LITHONIA	H2MSWIG	SURF.	EXIT LIGHT WITH INTEGRAL EMERG. LIGHTS
E	50	MANUF REC		LITHONIA	MSWIG-DCG	SURF.	EXIT LIGHT WITH EMERG. BATTERY
F	50	MANUF REC		LITHONIA	ELM-2	WALL +7'-6"	EMERG. LIGHT

* NOTE: LAMPS IN CLASSROOM FIXTURES BEING DIMMED TO BE STANDARD F-40 IN LIEU OF WATT-MISERS.



NOTE: SEE BLDG. PLANS FOR FEEDERS.

6 / E2 **FIRE ALARM SYSTEM LINE DIAGRAM**
NTS.

VOLTAGE DROP CALCS.

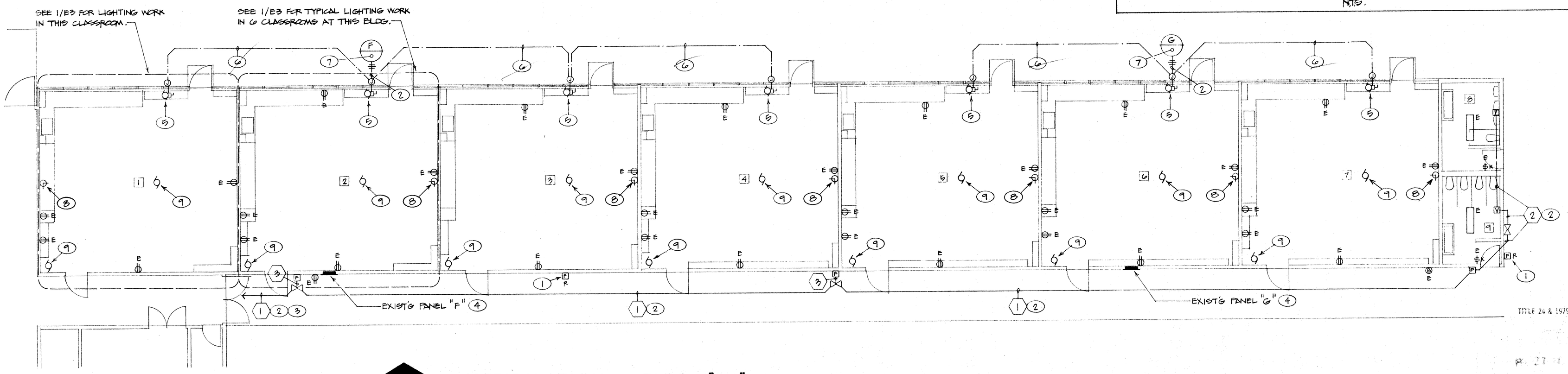
LONGEST CIRCUIT (WORST CONDITION)

WIRE # 12 CU THWN (600V)

LENGTH = 215 FT.

LOAD = 0.37 AMPS

CALCULATED V.D. = 0.163V (0.68%)



N **ELECTRICAL PLAN - BLDG. "A1"**
SCALE: 1/8"=1'-0"

date 6/23/89
revisions

WILLIAM PENN SCHOOL MODERNIZATION
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, CALIFORNIA

Approved for Construction
Date 2/27/90
By
Application # 52439

Kendrick Nelson Brown
Guy Whitaker Cinco A.I.A.
arch & tects • planners
2115 19th street • bakersfield, ca 93301 • (805) 322-1863

job number 8711

sheet number E•2

CORNELIUS ENGINEERING, INC.
Consulting Electrical Engineer
918 W. Main St. - Ph. 733-2671
Visalia, California 93291
Gerald Cornelius Calif. no. 7198

BLUEPRINT SERVICE 122374