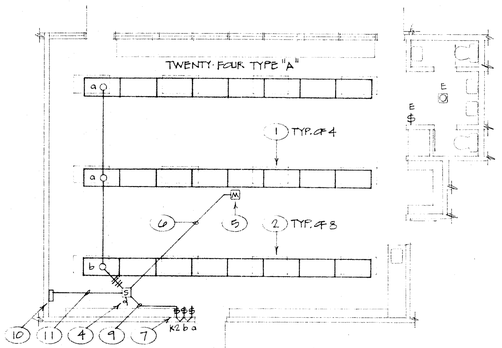
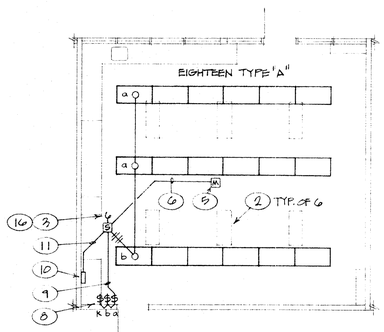
NOTES (THIS SHEET ONLY)

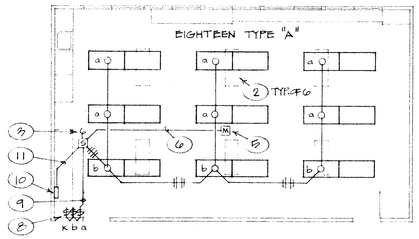
1. REMOVE EXISTING PENDANT MOUNTED FLUORESCENT FIXTURE. RE-ROUTE AND RECONNECT ANY FEED-THRU CIRCUITS. PULL OUT ANY IDLE WIRE.
2. REMOVE EXISTING SURFACE MOUNTED FLUORESCENT FIXTURE. RE-ROUTE AND RECONNECT ANY FEED-THRU CIRCUITS. PULL OUT ANY IDLE WIRE.
3. CONNECT TO ONE NEW 20/1 BKR IN PANEL FEEDING THIS ROOM (BLDG. "C" - RMS. #1, 2 & 3 FEED FROM PANEL "D" AND RMS. #6 & 7 FEED FROM PANEL "E"; BLDG. "D" - RMS. #1, 2 & 3 FEED FROM PANEL "F" AND RMS. #8 & 9 FEED FROM PANEL "G"; BLDG. "E" - RMS. #1, 2 & 3 FEED FROM PANEL "H" AND RMS. #6 & 7 FEED FROM PANEL "I" AND BLDGS. "R1", "R2" & "R5" FEED FROM PANEL INSIDE EACH CLASSROOM). PULL 2 #12 +1 #12 GND TO PANEL VIA EXISTING LIGHTING CONDUIT.
4. CONNECT TO TWO NEW 20/1 BKRS IN PANEL "J". PULL 3 #12 +1 #12 GND TO PANEL VIA EXISTING LIGHTING CONDUIT.
5. MOTION SENSOR AT CEILING TO CONTROL LIGHTING (WALL SWITCH IN "OFF" POSITION TO OVERRIDE MOTION SENSOR). LOCATE SWITCHPACK IN ACCESSIBLE ATTIC WHERE CIRCUIT IS PICKED UP.
6. 1/2"C + L.V. WIRING FOR MOTION SENSOR CONTROLS (VERIFY WIRING REQUIRED WITH SENSOR SUPPLIER).
7. REPLACE EXISTING SWITCHES WITH TWO NEW SWITCHES, AND ONE NEW 2-HOLE KEY SWITCH PER 2/E3 & 3/E3. REUSE EXISTING CONDUIT TO ATTIC FOR NEW WIRING TO NEW FIXTURES (PULL OUT IDLE WIRE).
8. REPLACE EXISTING SWITCHES WITH TWO NEW SWITCHES, AND ONE NEW KEY SWITCH PER 2/E3 & 3/E3. (BLDG. "E" HAS THREE EXISTING SWITCHES.) REPLACE EXISTING BOX WITH 3 GANG (FLUSH) OR PROVIDE NEW ADJACENT SURFACE BOX FOR SWITCH(ES) WITH CONCEALED FEED TO EXISTING BOX (CONTRACTOR'S OPTION). REUSE EXISTING CONDUIT TO ATTIC FOR NEW WIRING TO NEW FIXTURES (PULL OUT IDLE WIRE).
9. REUSE EXISTING CONDUIT FROM BOX TO ATTIC (WIRING PER 2/E3 & 3/E3). PROVIDE ADDITIONAL CONDUIT TO NEW BOX AS REQUIRED FOR WIRING NOT ABLE TO FIT IN EXISTING CONDUIT. FISH EXISTING WALL (IF NOT POSSIBLE USE SURFACE RACEWAY - WIREMOLD #700. PAINT TO MATCH ADJACENT SURFACE).
10. CONTROL MODULE AND OUTPUT MODULE (SEE 3/E3) FOR "A" SWITCHED FIXTURES. ("B" SWITCHED FIXTURES ARE NOT DIMMED). MOUNT CONTROL MODULE ON WALL WITH TOP 6" FROM CEILING (EXPOSED CONDUIT PERMITTED FROM MODULE TO ATTIC. CAULK AROUND PENETRATION). MOUNT OUTPUT MODULE IN ATTIC ABOVE CONTROL MODULE.
11. 3/4"C + WIRING PER 3/E3.
12. 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. RE-PULL EXIST'G CONDUCTORS REMAINING AS REQ'D.
13. 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).
14. TO NEW FIRE ALARM MASTER.
15. REPLACE INTERIOR BUS AND BREAKERS WITH NEW PER 1/E4.
16. AT BLDG. # R5 CONNECT TO ONE EXIST'G 20/1 LIGHTING CIRCUIT WHERE FIXTURES REMOVED (IN LIEU OF PULLING NEW WIRE).
17. CONNECT TO TWO NEW 20/1 BREAKERS IN EXIST'G PANEL (SEE 1/E4) - ONE FOR CONTROLS, ONE FOR EMS PLUG.
18. CONNECT NEW CONTROL XFMR (120V) AT EXIST'G AIR HANDLER IN ATTIC - SEE MECH. DRAWINGS FOR LOCATION/REQ.
19. 3/4"C. TO EXIST'G TEL. T.C. (CONCEAL PER (13)).
20. LOCATE OUTLET AT EMS TERMINUS (VERIFY LOCATION WITH EMS CONTRACTOR). FISH WALL TO DEVICE PER (12).



BLDG. "B2" - RMS. #1 & 14 - RM. #14 MIRROR IMAGED



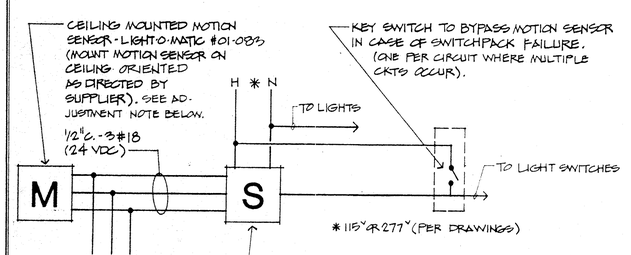
BLDG.'S "C", "D", "E" & "R5" - TYPICAL OF 18 CLASSROOMS



BLDG.'S "R1" & "R2"

1/E3 TYPICAL CLASSROOM LIGHTING PLANS

SCALE: 1/8" = 1'-0"

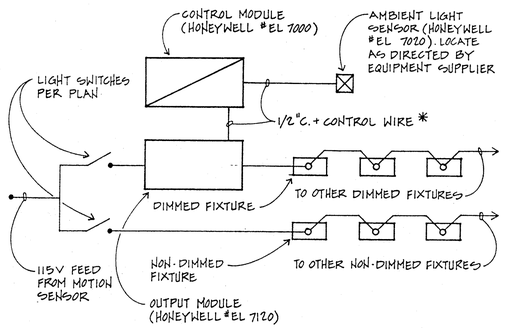


ADJUST MOTION SENSOR AS FOLLOWS:

- TIME DELAY
  - 12 MINUTES.
- SENSITIVITY
  - LIGHTS TURN ON WITHIN 1/2 STEP INTO ROOM.
  - NO FALSE LIGHTS ON DUE TO MOTION OUTSIDE ROOM OR BY HVAC EQUIP.
  - SHALL PASS WALK TEST BY ENGINEER.

2/E3 MOTION SENSOR WIRING DIAGRAM

NO SCALE



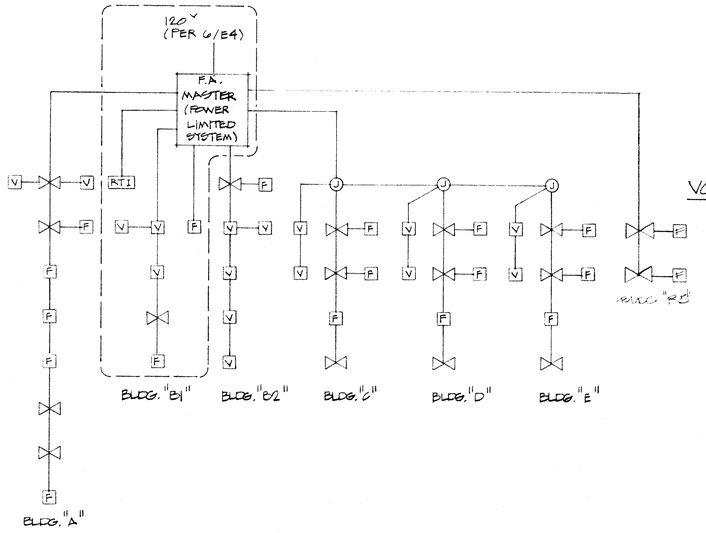
NOTE:
NEUTRAL CONDUCTORS FOR DIMMED CIRCUITS ARE NOT TO BE USED FOR ANY OTHER CIRCUITS (PULL SEPARATE NEUTRALS).

* VERIFY ALL CONTROL WIRING REQUIREMENTS WITH EQUIPMENT SUPPLIER.

NOTE:
THERE SHALL BE A JOB VISIT BY DIMMING CONTROL SYSTEM MANUFACTURER PERSONNEL TO REVIEW & VERIFY ALL WIRING REQUIREMENTS FOR DIMMING SYSTEM WITH THE ELECTRICAL CONTRACTOR BEFORE BEGINNING THE SYSTEM WIRING.

3/E3 CLASSROOM DIMMING SYSTEM DIAGRAM

NO SCALE



NOTE: SEE BLDG. PLANS FOR FEEDER DESCRIPTIONS.

4/E3 FIRE ALARM SYSTEM LINE DIAGRAM

NTS

VOLTAGE DROP CALCS.

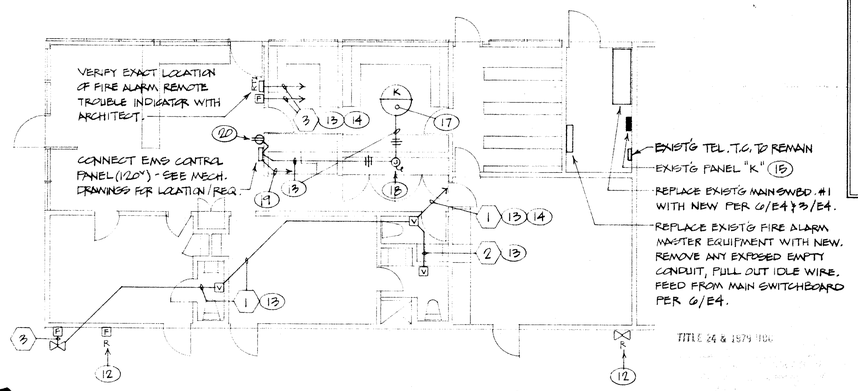
LONGEST CIRCUIT (WORST CONDITION)

WIRE #12 CU THWN (600V)

LENGTH = 540 FT.

LOAD = 1.023 AMPS

CALCULATED V.D. = 0.892V (3.72%)



ELECTRICAL PLAN - BLDG. "B1"

SCALE: 1/8" = 1'-0"

date 6/23/89 revisions

MUNSEY SCHOOL MODERNIZATION
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, CALIFORNIA

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