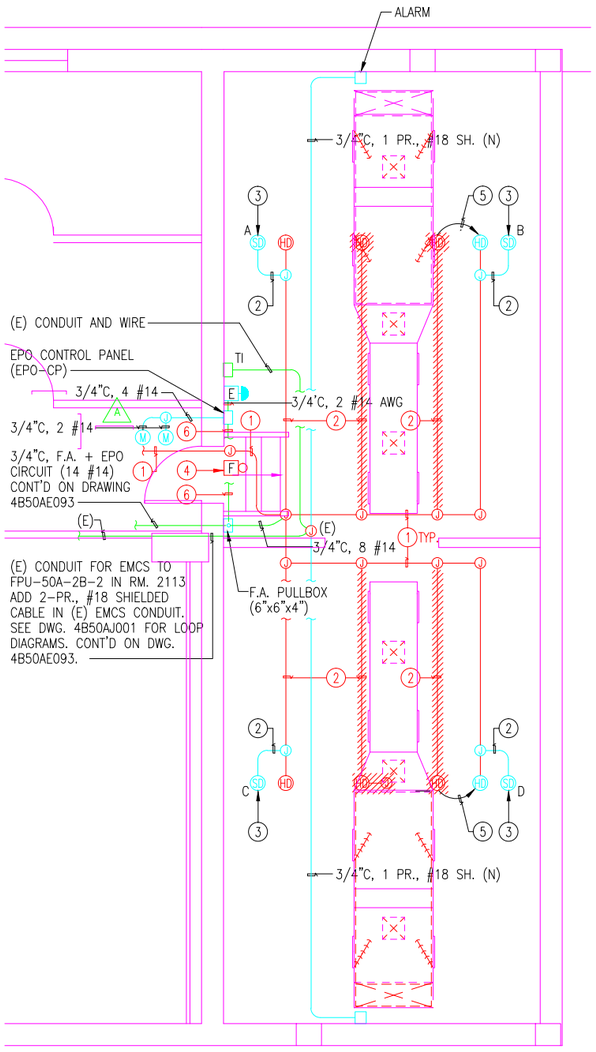
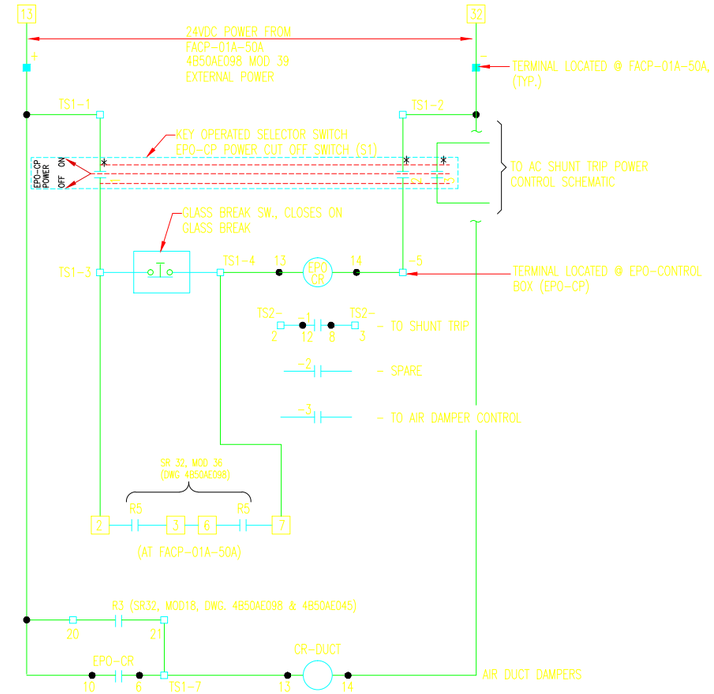
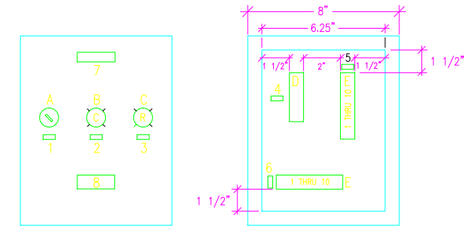


FIRE ALARM SYSTEM PLAN

SCALE: 1/4" = 1' - 0"



50A - RM.2109: EMERG. POWER OFF, (EPO) FIRE DAMPER CONTROL SCHEMATIC DIAGRAM



BILL OF MATERIALS

NO.	QTY.	DESCRIPTION	CATALOG NO.
A	1 EA.	KEY SWITCH, 2 POSITION, MAINTAINED	CH #E22K53-VA
B	1 EA.	120V AC, RESIST. LITE, CLEAR, TESTABLE	CH #E22T0X26
C	1 EA.	120V AC, RESIST. LITE, RED, TESTABLE	CH #E22T2X26
D	1 EA.	IDEC RELAY, 3 DPT & SOCKET	IDEC #RH3B-U-DC24V & SH3B-0S
E	LOT	TERMINAL STRIP-22-#10, & CHANNEL	CH #C381TP, C381MC, C381ES
F	1 EA.	10"x8"x6" NEMA 1 ENCLOSURE WITH PANEL	HOFFMAN - A-10N86/A-L12AR LOCK KIT A-10N8P BACK PANEL OR EQUAL
G	1 EA.	FUSE BLOCK & 5A FUSE	SHAWMUT FUSEBLOCK CAT #30321R & FUSE CAT. #ATMR5.
H	2 EA.	DISCONN. TYPE TERMINALS	CH #C381SB, END SECTION - C381EF

NAMEPLATE SCHEDULE

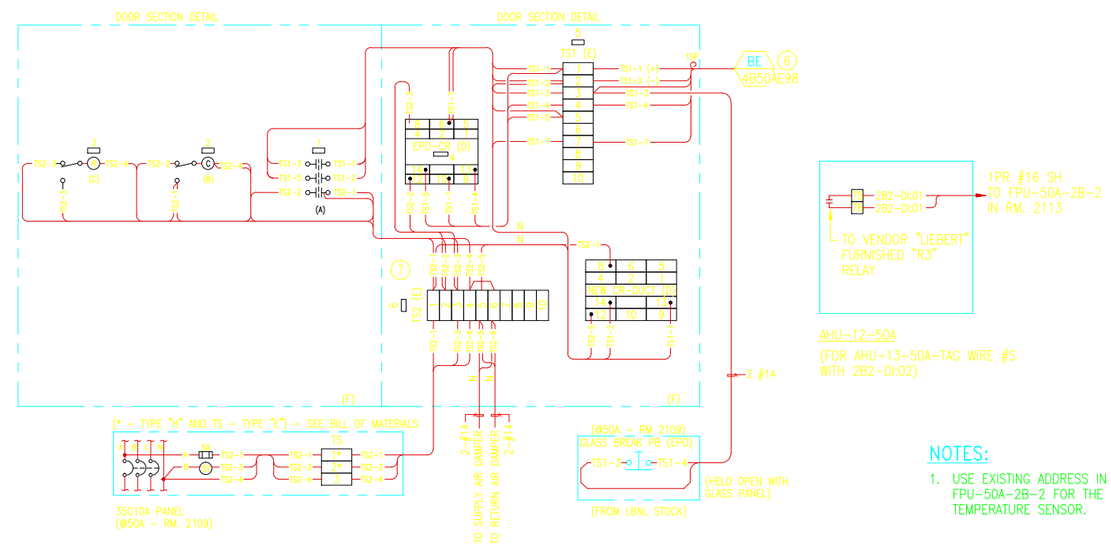
NO.	DESCRIPTION 1ST LINE	DESCRIPTION 2ND LINE	NO.	DESCRIPTION 1ST LINE	DESCRIPTION 2ND LINE
1	EPO-CP SEL. SW.	OFF - ON	4	RELAY EPO - CR	
2	AC - POWER	ON	5	TS1	
3	EPO	TRIP	6	TS2	
			7	CONTROL PANEL	EPO-CP
8	RED NAMEPLATE WITH WHITE LETTERS				

CAUTION (1/4" SIZE)

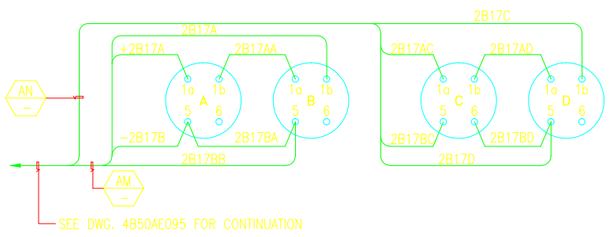
MULTIPLE FOREIGN VOLTAGES INSIDE THE CONTROL PANEL. USE CAUTION IN MAINTENANCE SEE DRAWING NO. 4B50AE092 DETAILS. (3/16" SIZE)

SHEET NOTES

1. EXISTING FIRE ALARM SYSTEM DEVICES SHALL REMAIN INCLUDING CONDUIT AND WIRING, UON.
2. DISCONNECT AND REMOVE (E) CONDUIT AND HEAT DETECTOR BACK TO JUNCTION BOX. PULL BACK ALL WIRING BACK TO THE JUNCTION BOXES. INSTALL (N) CONDUIT, HEAT DETECTORS (ER) AND SMOKE DETECTORS AS SHOWN. EXTEND HEAT AND SMOKE DETECTOR WIRING TO THE UNITS. TERMINATE HEAT DETECTORS WITH THE (E) BUILDING ZONE AND SMOKE DETECTORS TO NEW ZONE 2B17 @ FAP-01-50A. SEE FIRE ALARM DWGS 4B50AE094 THRU 4B50AE098 FOR CONTINUATION.
3. PROVIDE SMOKE DETECTORS AND CONNECT TO (E) FIRE ALARM SYSTEM (FAP-01-50A) LOCATED IN BASEMENT ROOM 0135. (N) SMOKE DETECTOR DEVICE TYPE AND RATING SHALL BE PYROTRONICS IN ACCORDANCE WITH LBNL STANDARDS.
4. ADD STROBE LIGHT TO THE FIRE ALARM BELL OR REPLACE THE BELL WITH THE INTEGRAL UNIT TYPE.
5. REMOVE (E) HEAT DETECTOR AND REINSTALL WHERE SHOWN. EXTEND WIRES AND REUSE (E) CONDUIT.
6. 3/4"C, 6 #14 AWG, THHN WIRE.
7. MAINTAIN SEPARATION OF LOW VOLTAGE 24VDC WIRING FROM 120VAC CIRCUITS.

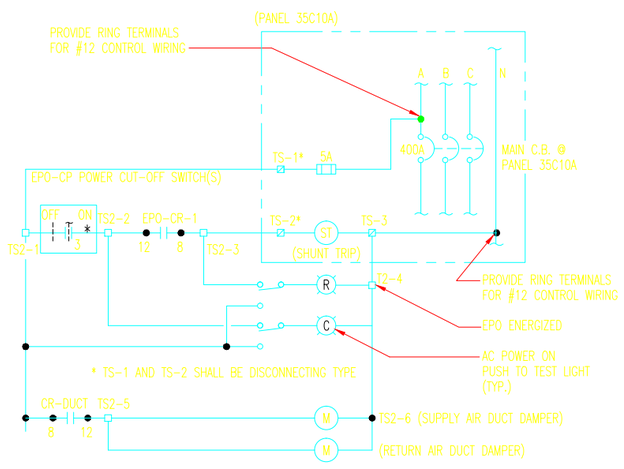


RM 2109 F.A. CONTROL SCHEMATIC DIAGRAM



SMOKE DETECTORS CONNECTION DIAGRAM

(DI-3-IONIZATION TYPE (2) AND PC-3-PHOTOELECTRIC TYPE)



EPO-2109: EMERG. POWER OFF SWITCH CONTROL SCHEMATIC DIAGRAM

NOTES:

1. USE EXISTING ADDRESS IN FPU-50A-2B-2 FOR THE TEMPERATURE SENSOR.

REVISION NUMBER	DRAWN BY	CHECKED BY	APPR'D BY	DATE	REMARKS
E				9/30/08	AS BUILT
D	AD	ROB	MCG	8/15/00	AS BUILT
C	LM		MG		AS BUILT. PROJECT 1596-26
B			MG	11/2/96	CHANGED AIR DAMPERS TO 120VAC
A	SEM	MCG		7/96	ADDED EMCS, DAMPER LOGIC

50A PDSF RM 2109
ELECTRICAL MODIFICATIONS
FIRE ALARM SYSTEM PLAN

UNIVERSITY OF CALIFORNIA LAWRENCE BERKELEY LABORATORY
FACILITIES DEPARTMENT

		DATE
DRAWN BY	RZT	6/19/19
CHECKED BY	MCG	7/15/19
APPROVED BY	MCG	7/15/19
CAD FILE PATH		
SCALE	1/4=1-0	
DRAWING NO.	4B50AE092E	SHEET E5
PROJECT NO.	159626	