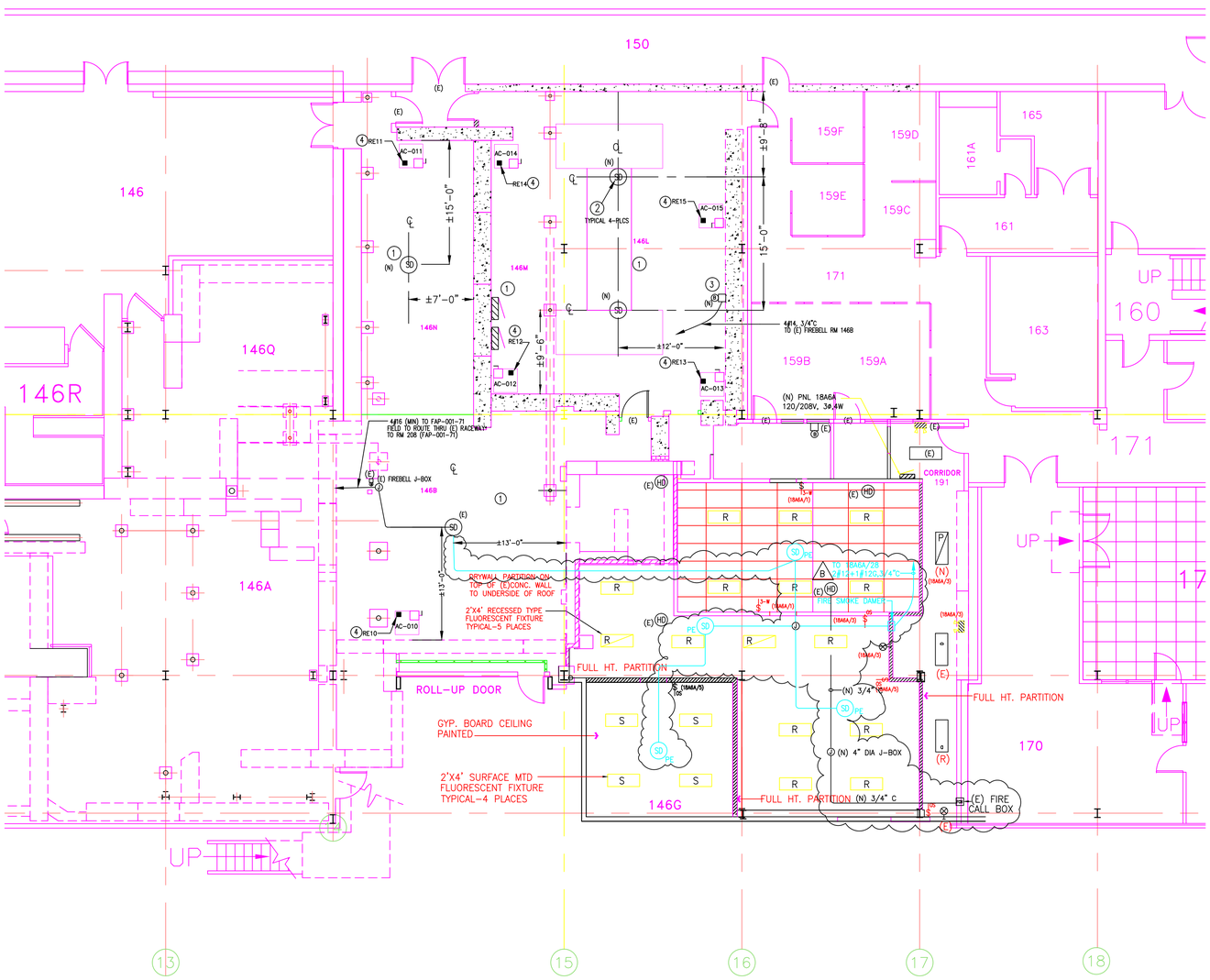
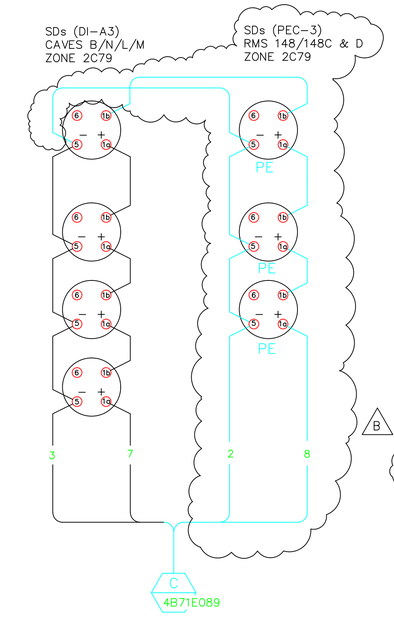


1 / E2 FIRST FLOOR PLAN

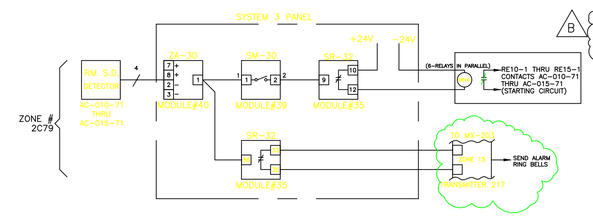
1/8" = 1'-0"



SMOKE DETECTOR CONNECTION DIAGRAM
ZONE 2C79

REFERENCE DRAWINGS:

1 4B71E041I FA SYSTEM LOGIC DIAG XMITTER 216
2 4B71E042E FA SYSTEM LOGIC DIAG XMITTER 217 & 218
3 4B71E086A FA SYSTEM PANEL INTERCONNECTION DIAGRAM
4 4B71E089F FA SYSTEM PANEL INTERCONNECTION DIAGRAM
5 4B71E091A FA SYSTEM PANEL INTERCONNECTION DIAGRAM



FIELD TO CHECK & VERIFY

2 / E2 LOGIC DIAG FOR AC SHUTDOWN

NONE

LEGEND & ABBREVIATIONS

(E),	EXISTING TO REMAIN UON
(ER)	EXISTING TO BE REMOVED
(N),	NEW AS SHOWN, SEE APPROPRIATE SYMBOL BELOW
	DUPLEX RECEPTACLE
	2-DUPLEX RECEPTACLE
	WRAPAROUND FLUORESCENT FIXTURE, 120V, 2-T8 LAMPS ELECTRONIC BALLAST, CLEAR PRISMATIC DIFFUSER
	WIRE/RACEWAY: "HOMERUN", MIN SIZE #12 SEPARATE NEUTRAL FOR EACH CIRCUIT COMMON PARITY GROUND IN 3/4" C UON
	PANELBOARD (SEE SCHEDULE)
1	SHEETNOTE IDENTIFICATION TAG
	DUPLEX OUTLET (TELEPHONE, NETWORK)
AFF	ABOVE FINISHED FLOOR
UON	UNLESS OTHERWISE NOTED
(E)	EXISTING
(N)	NEW
(R)	RELOCATED
SD	SMOKE DETECTOR (IONIZATION), PYROTRONICS DI-A3 (HIGH AIR VELOCITY)
SD PE	SMOKE DETECTOR (PHOTOELECTRIC), PYROTRONICS PEC-3

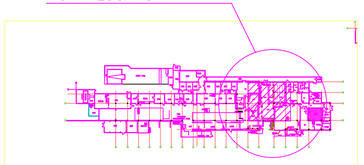
GENERAL NOTES:

1. ALL ELECTRICAL EQUIPMENT, DEVICES & INSTALLATION SHALL COMPLY WITH LATEST EDITION OF NEC & LBNL ELEC. STDS/SPECIFICATION DIV 16 – SECT's.16010 (Basic Elect. Requirem'ts); 16110-(Conduit); 16120-(Wire & Cable); 16130-(Boxes); 16141-(Wiring Devices); 16500-(Lighting); 16195-(Electrical Identification)
2. PRIOR TO CONSTRUCTI9ON FIELD VERIFY & CHECK EXISTING CONDITIONS, ELEVATIONS, DIMENSIONS AND INFORM ENGINEER/CONSTRUCTION SUPERINTENDANT OF CONFLICTS, INTERFERENCES & UNEXPECTED CONDITIONS.
3. CONDUIT & WIREWAY ROUTING ARE DIAGRAMATIC. MIN. 3/4"C & #12 AWG WIRE SIZES. SUPPORT CONDUITS & WIREWAY AT LEAST EVERY 10 FEET OR AS REQUIRED.
4. FIELD TO VERIFY & CHECK EQUIPMENT RATING, INTERCONNECTIONS, PRIOR TO TIE-DOWNS.
5. TAG & LABEL ALL ELECTRICAL EQPT & DEVICES WITH CIRCUIT NOs. AND/OR EQUIPMENT NOs.
6. FIELD TO SUBMIT MARKED-UP PRINTS AFTER THE INSTALLATIONS COMPLETE FOR "AS-BUILT".

SHEET NOTES:

1. DEMO (4) EXISTING SMOKE DETECTOR IN CAVES B & N, L & M AS SHOWN. (SEE REFERENCE FIRE ALARM DRAWINGS)
2. INSTALL (4)-SMOKE DETECTOR (DI-A3) AS SHOWN ON PLAN. DIMENSIONS SHOWN ARE APROXIMATE & CAN BE ADJUSTED IN THE FIELD. REUSE (E) RACEWAY IN THE CAVES & TO RM 208 FOR NEW ZONE 2C79 (AREA SMOKE DETECTOR & A/C SHUTDOWN) PROVIDE NEW RACEWAY OR CONDUIT AS REQUIRED & LABEL NEW ZONE
3. INSTALL (1)-FIREBELL & CONNECT TO (E) IN CORRIDOR 191. (LOAD TEST & LABEL ZONE)
4. INSTALL RELAY INSIDE EACH AC UNIT (OR WITHIN 3FT OF THE UNIT) & WIRE THE CLOSE CONTACT IN SERIES WITH STARTING CIRCUIT. REFER TO VENDOR WIRING DIAGRAM. (FIELD ROUTE CONDUIT WITH 2#14 WIRE)
5. B LBL TO INSTALL & WIRE (4)-SMOKE DETECTORS (PEC-3) & FIRE SMOKE DAMPER AS SHOWN CONTRACTOR TO INSTALL CONDUITS TO SMOKE DETECTORS/HEAT DETECTORS & POWER (120V) TO FIRE SMOKE DAMPER & COORDIANTE LOCATON WITH LBL FIRE ALARM CREW.

WORK LOCATION



KEY PLAN

NOT TO SCALE

B	VDA	MCG	MCG	1/03/06	ADD SMOKE DETECTORS RMS 148/148C & D	
A	VDA	MCG	MCG	3/19/02	AS BUILT	
REVISION NUMBER	DRAWN BY	CHECKED BY	APPR'D BY	DATE	REMARKS	

PROFESSIONAL SEAL (IF REVISION, APPLIES ONLY TO REVISED WORK)

ISSUE (PROGRESS, ESTIMATE, BID, CONSTRUCTION, CONFORMED, REVISION, AS-BUILT)

ASBUILT
B
REVISION
1/9/2006

71 CAVES B/L/M/N
SMOKE DETECTOR INSTALLATION
ELECTRICAL PLANS & NOTES

UNIVERSITY OF CALIFORNIA
LAWRENCE BERKELEY NATIONAL LABORATORY
FACILITIES DEPARTMENT

DRAWN BY VDA	DATE 11/12/2001	
CHECKED BY VDA	11/12/2001	
APPROVED BY MCG	11/13/2001	
CAD FILE PATH 00020671		
SCALE As Noted		
DRAWING NO. 4B71E118B	SHEET E-2	
PROJECT NO. FA0130	1 OF1	