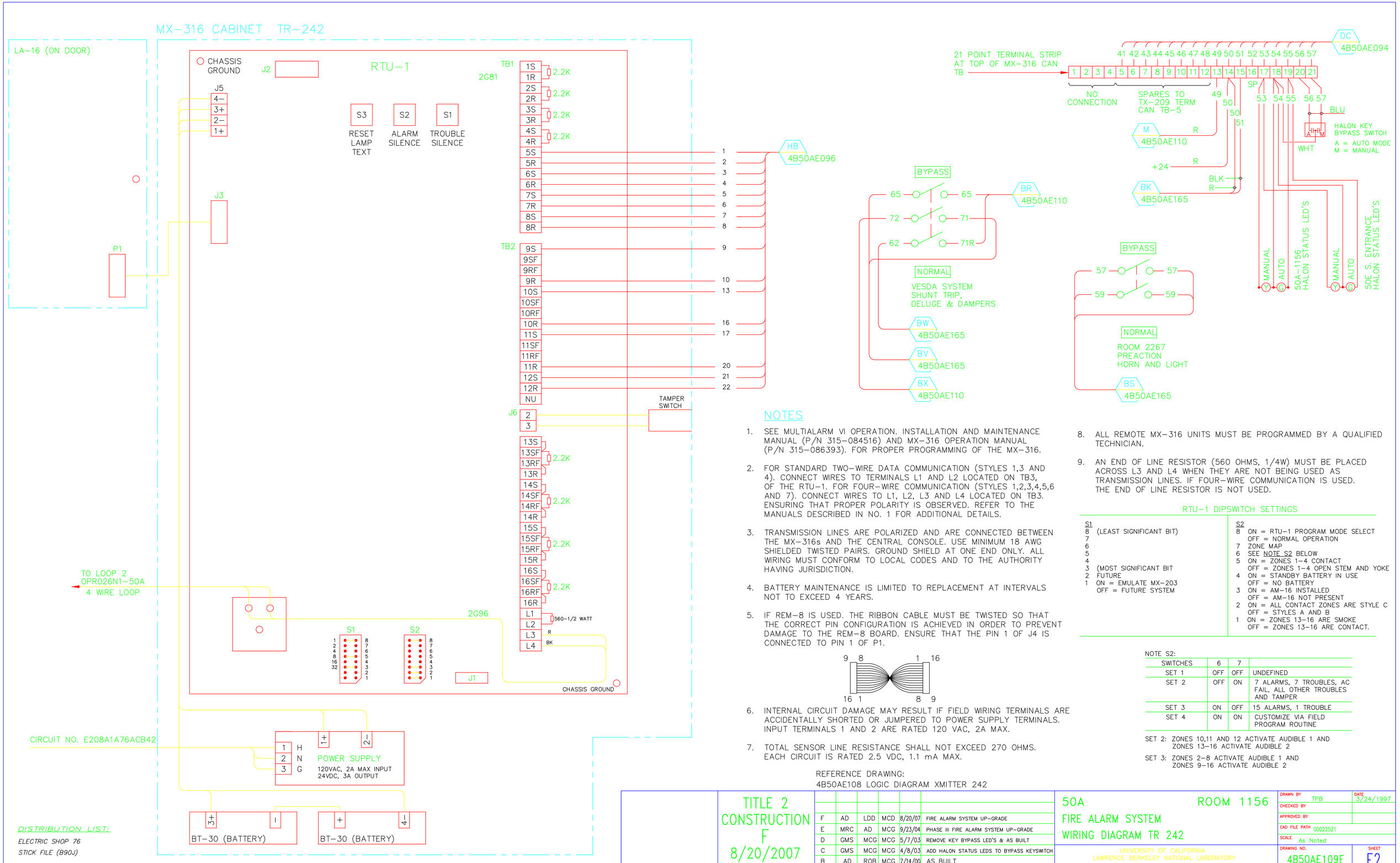

NOTES

1. SEE MULTIALARM VI OPERATION. INSTALLATION AND MAINTENANCE MANUAL (P/N 315-084516) AND MX-316 OPERATION MANUAL (P/N 315-086393). FOR PROPER PROGRAMMING OF THE MX-316.
2. FOR STANDARD TWO-WIRE DATA COMMUNICATION (STYLES 1,3 AND 4). CONNECT WIRES TO TERMINALS L1 AND L2 LOCATED ON TB3, OF THE RTU-1. FOR FOUR-WIRE COMMUNICATION (STYLES 1,2,3,4,5,6 AND 7). CONNECT WIRES TO L1, L2, L3 AND L4 LOCATED ON TB3. ENSURING THAT PROPER POLARITY IS OBSERVED. REFER TO THE MANUALS DESCRIBED IN NO. 1 FOR ADDITIONAL DETAILS.
3. TRANSMISSION LINES ARE POLARIZED AND ARE CONNECTED BETWEEN THE MX-316s AND THE CENTRAL CONSOLE. USE MINIMUM 18 AWG SHIELDED TWISTED PAIRS. GROUND SHIELD AT ONE END ONLY. ALL WIRING MUST CONFORM TO LOCAL CODES AND TO THE AUTHORITY HAVING JURISDICTION.
4. BATTERY MAINTENANCE IS LIMITED TO REPLACEMENT AT INTERVALS NOT TO EXCEED 4 YEARS.
5. IF REM-8 IS USED. THE RIBBON CABLE MUST BE TWISTED SO THAT THE CORRECT PIN CONFIGURATION IS ACHIEVED IN ORDER TO PREVENT DAMAGE TO THE REM-8 BOARD. ENSURE THAT THE PIN 1 OF J4 IS CONNECTED TO PIN 1 OF P1.

6. INTERNAL CIRCUIT DAMAGE MAY RESULT IF FIELD WIRING TERMINALS ARE ACCIDENTALLY SHORTED OR JUMPERED TO POWER SUPPLY TERMINALS. INPUT TERMINALS 1 AND 2 ARE RATED 120 VAC, 2A MAX.
7. TOTAL SENSOR LINE RESISTANCE SHALL NOT EXCEED 270 OHMS. EACH CIRCUIT IS RATED 2.5 VDC, 1.1 mA MAX.
8. ALL REMOTE MX-316 UNITS MUST BE PROGRAMMED BY A QUALIFIED TECHNICIAN.
9. AN END OF LINE RESISTOR (560 OHMS, 1/4W) MUST BE PLACED ACROSS L3 AND L4 WHEN THEY ARE NOT BEING USED AS TRANSMISSION LINES. IF FOUR-WIRE COMMUNICATION IS USED. THE END OF LINE RESISTOR IS NOT USED.

REFERENCE DRAWING:
4B50AE108 LOGIC DIAGRAM XMITTER 242

RTU-1 DIPSWITCH SETTINGS

S1
- 8 (LEAST SIGNIFICANT BIT)
- 7
- 6
- 5
- 4
- 3 (MOST SIGNIFICANT BIT
- 2 FUTURE
- 1 ON = EMULATE MX-203
  OFF = FUTURE SYSTEM

S2
- 8 ON = RTU-1 PROGRAM MODE SELECT
  OFF = NORMAL OPERATION
- 7 ZONE MAP
- 6 SEE NOTE S2 BELOW
- 5 ON = ZONES 1-4 CONTACT
  OFF = ZONES 1-4 OPEN STEM AND YOKE
- 4 ON = STANDBY BATTERY IN USE
  OFF = NO BATTERY
- 3 ON = AM-16 INSTALLED
  OFF = AM-16 NOT PRESENT
- 2 ON = ALL CONTACT ZONES ARE STYLE C
  OFF = STYLES A AND B
- 1 ON = ZONES 13-16 ARE SMOKE
  OFF = ZONES 13-16 ARE CONTACT.

NOTE S2:

SWITCHES	6	7	
SET 1	OFF	OFF	UNDEFINED
SET 2	OFF	ON	7 ALARMS, 7 TROUBLES, AC FAIL, ALL OTHER TROUBLES AND TAMPER
SET 3	ON	OFF	15 ALARMS, 1 TROUBLE
SET 4	ON	ON	CUSTOMIZE VIA FIELD PROGRAM ROUTINE

SET 2: ZONES 10,11 AND 12 ACTIVATE AUDIBLE 1 AND ZONES 13-16 ACTIVATE AUDIBLE 2

SET 3: ZONES 2-8 ACTIVATE AUDIBLE 1 AND ZONES 9-16 ACTIVATE AUDIBLE 2

REVISION NUMBER	DRAWN BY	CHECKED BY	APPR'D BY	DATE	REMARKS
F	AD	LDD	MCD	8/20/07	FIRE ALARM SYSTEM UP-GRADE
E	MRC	AD	MCG	9/23/04	PHASE III FIRE ALARM SYSTEM UP-GRADE
D	GMS	MCG	MCG	5/7/03	REMOVE KEY BYPASS LED'S & AS BUILT
C	GMS	MCG	MCG	4/8/03	ADD HALON STATUS LEDS TO BYPASS KEYSWITCH
B	AD	ROB	MCG	7/14/00	AS BUILT

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

ISSUE (PROGRESS, ESTIMATE, BID, CONSTRUCTION, CONFORMED, REVISION, RECORD)

TITLE 2
CONSTRUCTION
F
8/20/2007

50A ROOM 1156
FIRE ALARM SYSTEM
WIRING DIAGRAM TR 242

UNIVERSITY OF CALIFORNIA
LAWRENCE BERKELEY NATIONAL LABORATORY
FACILITIES DIVISION

DRAWN BY TPB
DATE 3/24/1997
CHECKED BY
APPROVED BY
CAD FILE PATH 00022521
SCALE As Noted
DRAWING NO. 4B50AE109F
SHEET E2
1 OF 1
PROJECT NO. FB4010