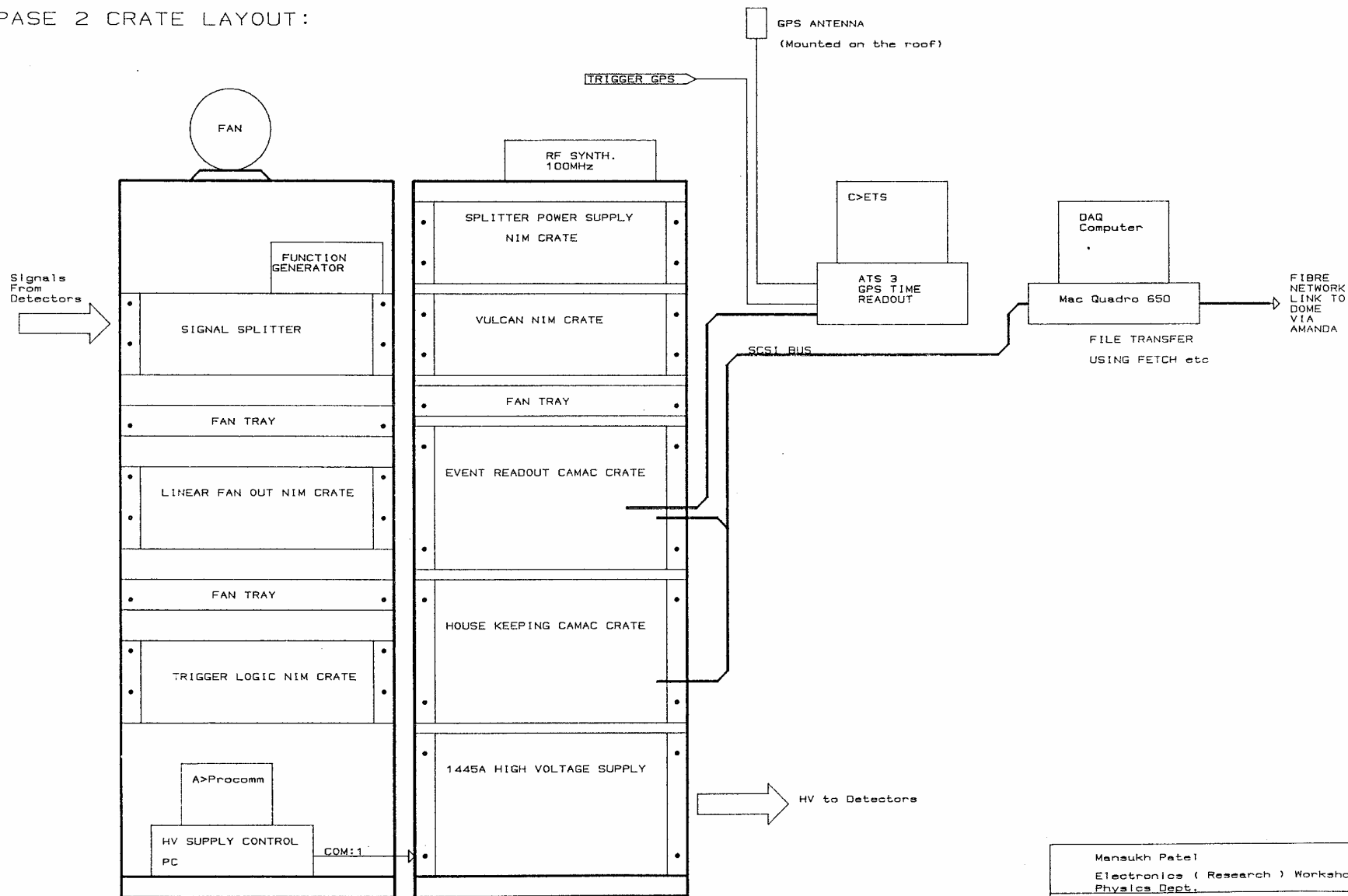


SPASE 2 CRATE LAYOUT:

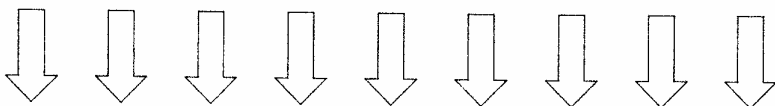


Mansukh Patel Electronics (Research) Workshop Physics Dept.		
Title AP: SPASE 2 Electronics Layout		
Size B	Document Number 133:1 150197 (SPTRLG7.SCH)	REV 1
Date: January 17, 1997	Sheet 1 of	8

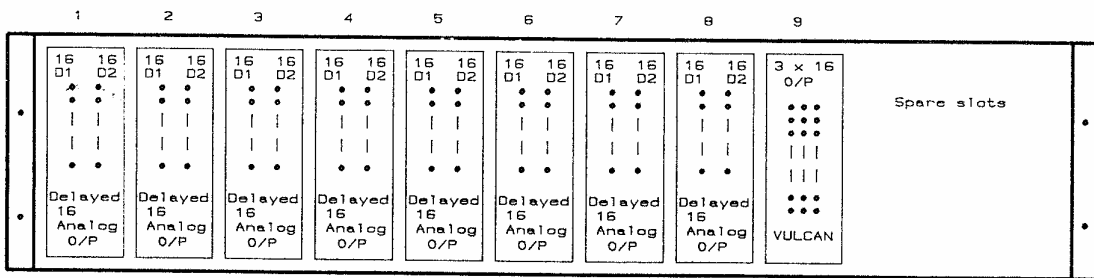
SPLITTER AND LINEAR FAN OUT CONNECTION

Signals from Station:

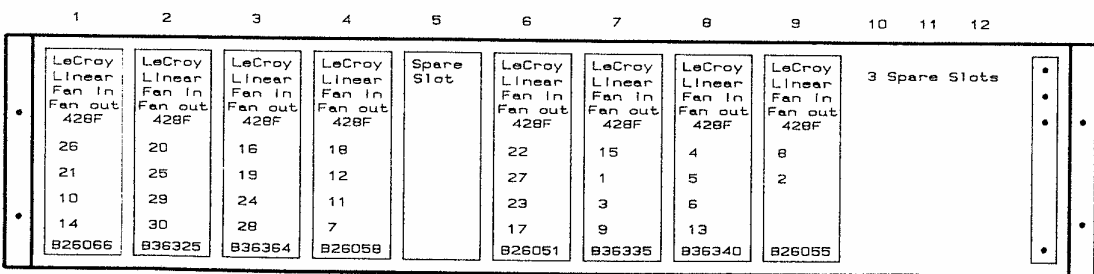
26	20	16	18	22	15	4	8	Signals From
21	25	19	12	27	1	5	2	VULCAN
10	29	24	11	23	3	6	-	Detectors
14	30	28	7	17	9	13	-	



6U X 84HP
Signal Splitter Rack:
Externally Powered by NIM Crate (+/- 12V at 3A each rail)

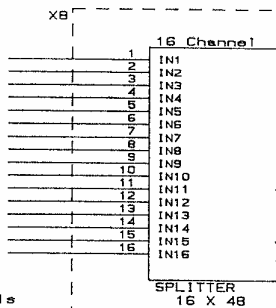


Linear Fan out NIM Crate NIM Module Layout:
12 Slot Phillips Scientific NIM Crate Model 700



4 Stations
Per Splitter Module

Detector
Signals



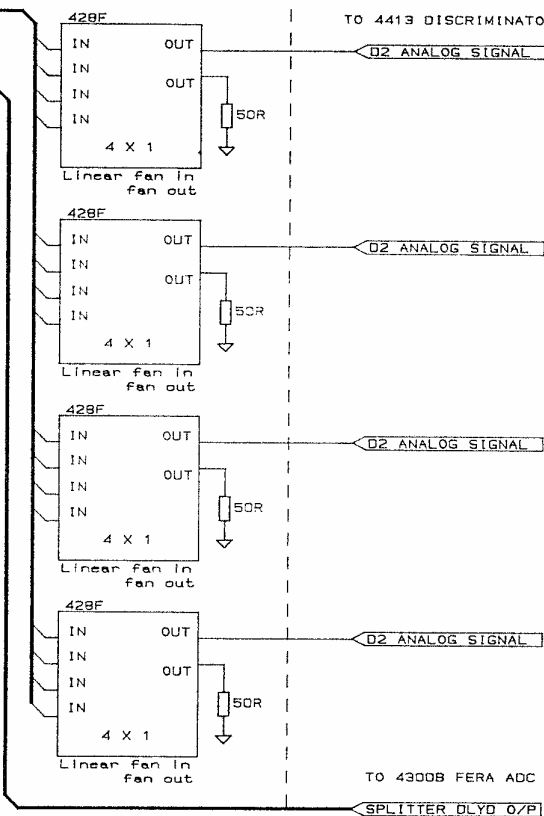
D1 Analog Signals

D2

To ADC

TO 3412 DISCRIMINATORS

TO 4413 DISCRIMINATOR



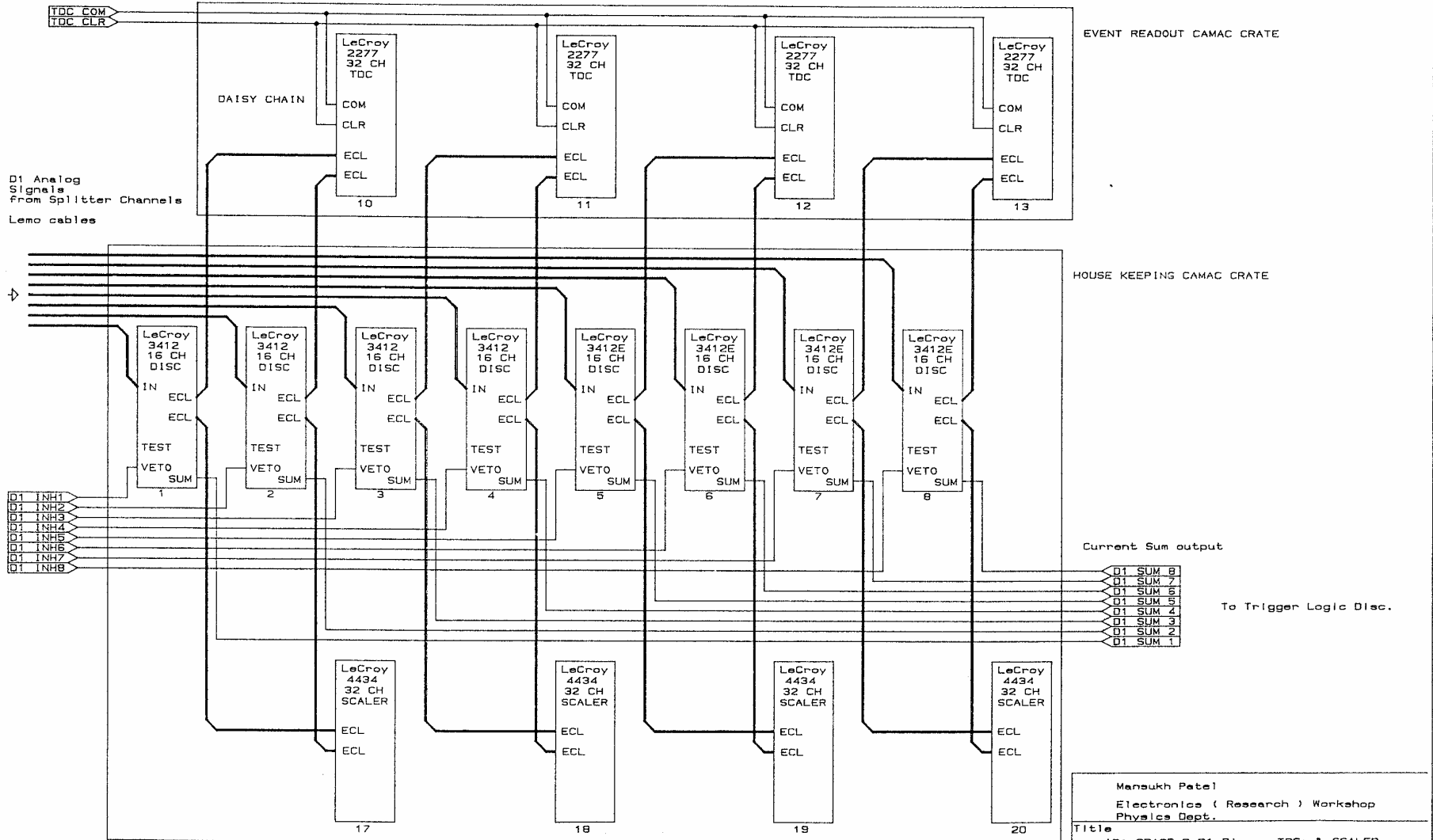
Mansukh Patel
Electronics (Research) Workshop
Physics Dept.

Title: AP: SPASE 2 Trigger Logic

Size Document Number: 100197 (SPTL2.G2.SCH) REV 1

Date: January 17, 1997 Sheet 2 of 8

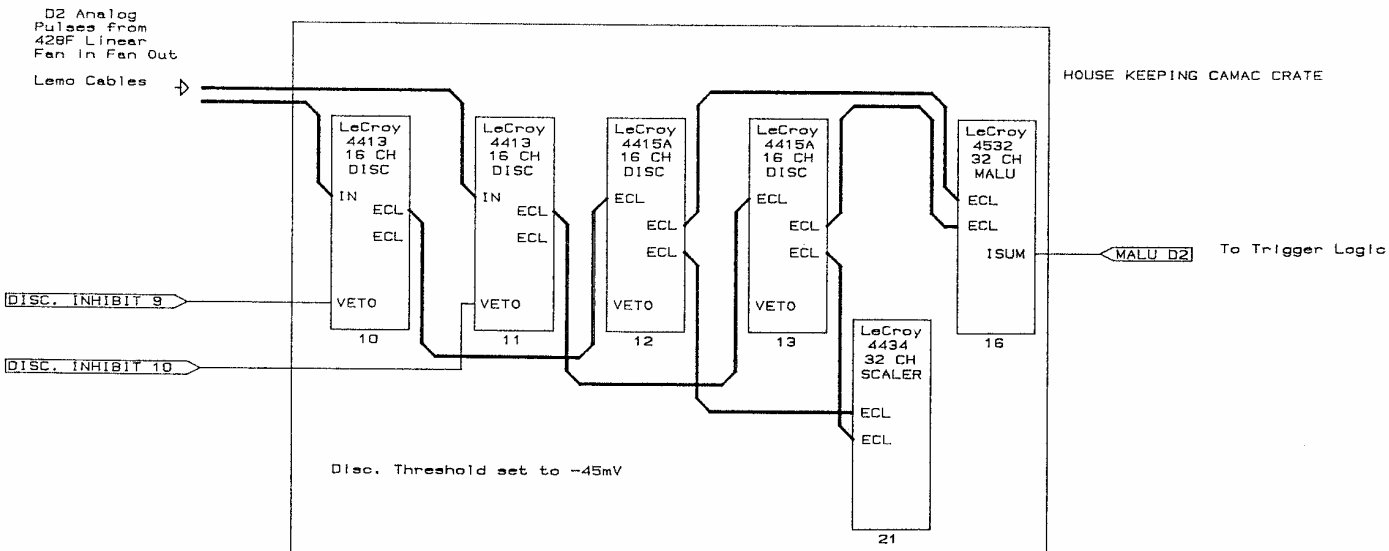
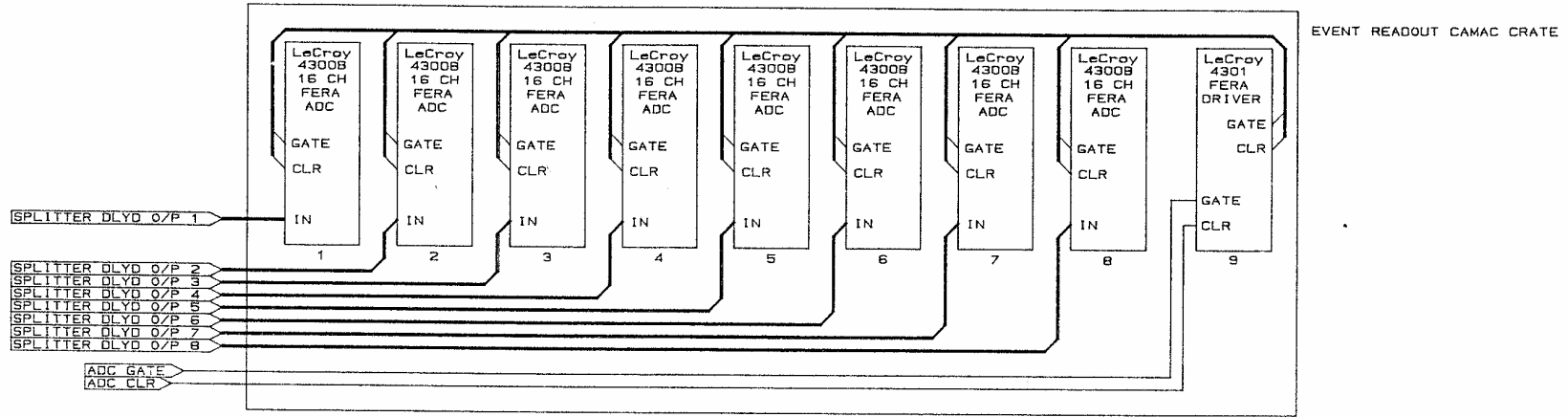
D1 Signal Connection:



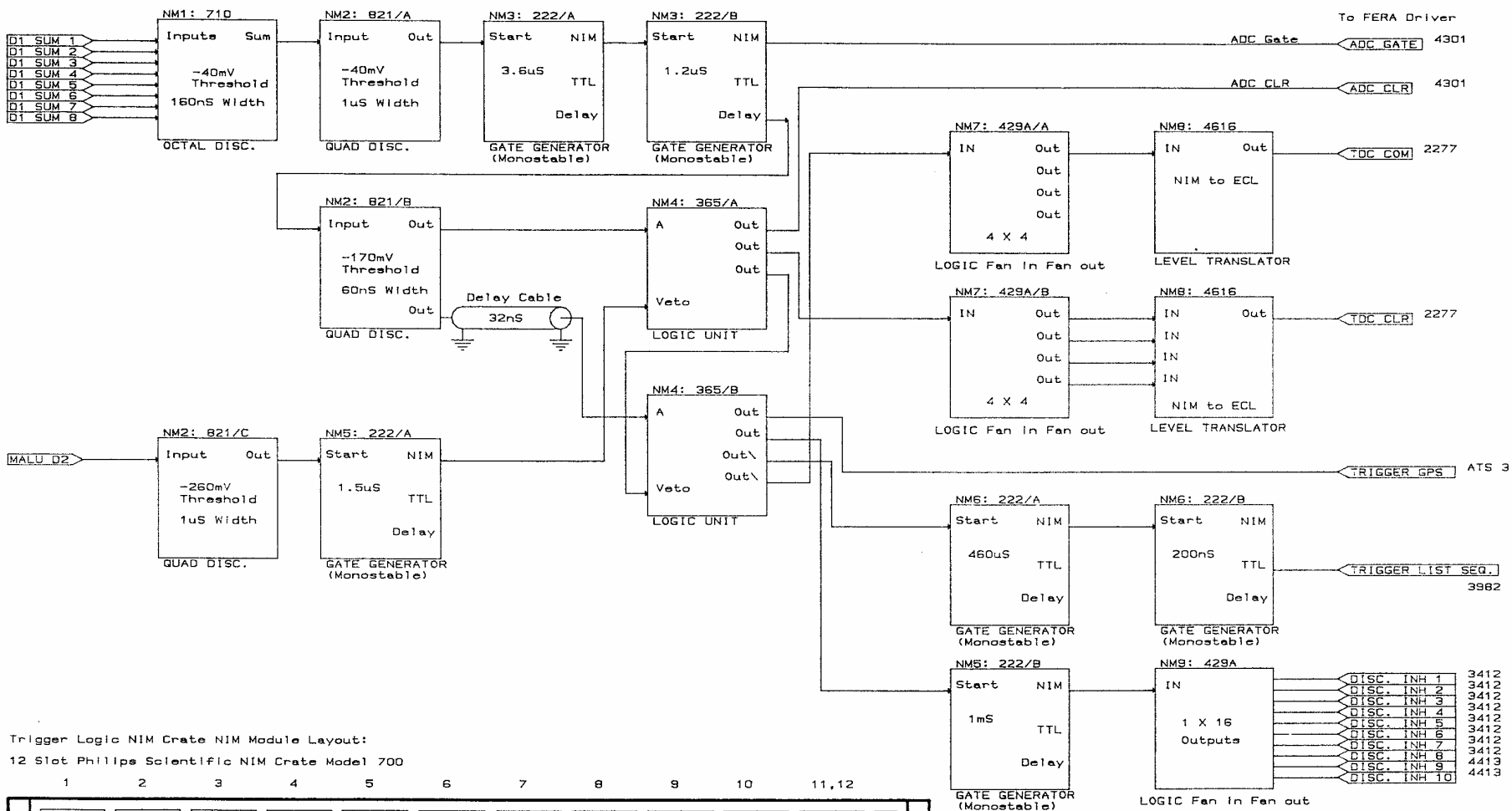
DISCRIMINATOR THRESHOLD SET TO -15mV

Mansukh Patel Electronics (Research) Workshop Physics Dept.		
Title AP: SPASE 2 D1 Discs., TDCs & SCALERS		
Size 8	Document Number Iss:1 100197 (SPTRLG3.SCH)	REV 1
Date: January 17, 1997	Sheet 3 of	8

ADC and D2 Disc. Connection:



Mansukh Patel Electronics (Research) Workshop Physics Dept.		
Title AP: SPASE 2 ADC Signal and D2 DISC.		
Size	Document Number	REV
B	Iss:1 100197 (SPTRLG4.SCH)	1
Date:	January 17, 1997 Sheet	4 of 8



Trigger Logic NIM Crate NIM Module Layout:
12 Slot Phillips Scientific NIM Crate Model 700

1	2	3	4	5	6	7	8	9	10	11,12
PS OCTAL DISC 710	LeCroy QUAD DISC 821	LeCroy Dual Gate Gen. 222	LeCroy 4 Fold Logic Unit 365	LeCroy Dual Gate Gen. 222	LeCroy Dual Gate Gen. 222	LeCroy Logic Fan In Fan out 429A	LeCroy Level Trans. ECL-NIM 4616	LeCroy Logic Fan In Fan out 429A	Spare Slot	100V Pulsar
12699	B16308	B26194	B32614	B36155	B36156	4 X 4	B35698	B36928	1 X 16	Double Width Module

Mensukh Patel
Electronics (Research) Workshop
Physics Dept.

Title
AP: SPA52 Trigger Logic

Size Document Number
B Iss:1 100197 (SPTRLG.SCH) REV 1

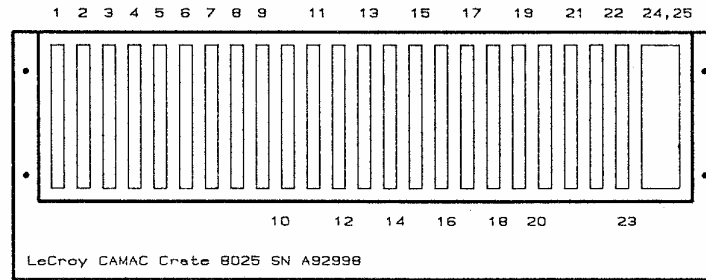
Date: January 17, 1997 Sheet 5 of 8

List and Serial No. of CAMAC Modules after Calibrations Dec. 1996

CAMAC MODULES

Slot	Module	SN
1	LeCroy 4300B 16 CH FERA ADC	B27621
2	LeCroy 4300B 16 CH FERA ADC	B27557
3	LeCroy 4300B 16 CH FERA ADC	B27652
4	LeCroy 4300B 16 CH FERA ADC	B27588
5	LeCroy 4300B 16 CH FERA ADC	B27569
6	LeCroy 4300B 16 CH FERA ADC	B27591
7	LeCroy 4300B 16 CH FERA ADC	B38649
8	LeCroy 4300B 16 CH FERA ADC	B38555
9	LeCroy 4301 FERA DRIVER	B33132
10	LeCroy 2277 32 CH TDC	B25127
11	LeCroy 2277 32 CH TDC	B25124
12	LeCroy 2277 32 CH TDC	B33291
13	LeCroy 2277 32 CH TDC	B33296
14	-	-
15	LeCroy 4208 8 CH TDC	B86496
16	LeClem 2 CH FADC	1
17	LeClem 2 CH FADC	0594
18	LeClem 2 CH FADC	4
19	LeClem 2 CH FADC	5
20	GPS Clock	
21	-	
22	LoPatel FACE	200195
23	Kinetic Systems List Sequencer 3982	--
24,25	Jorway SCSI Crate Controller 73	-

EVENT READOUT CRATE:



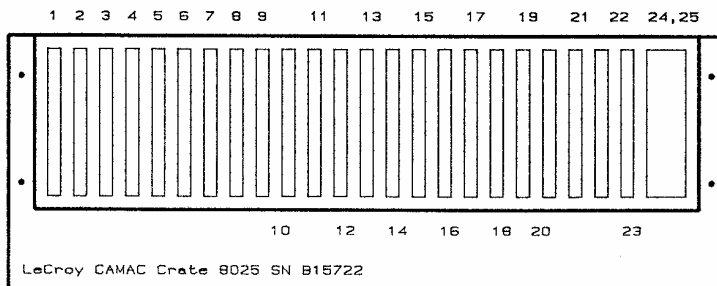
Mansukh Patel Electronics (Research) Workshop Physics Dept.		
Title AP: SPASE 2 CAMAC CRATE 1 LAYOUT		
Size	Document Number	REV
B	Iss:1 100197 (SPTRLG5.SCH)	1
Date:	January 17, 1997	Sheet 6 of 8

List and Serial No. of CAMAC Modules after Calibrations Dec. 1996

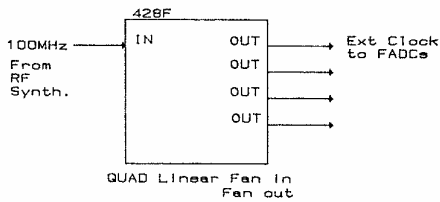
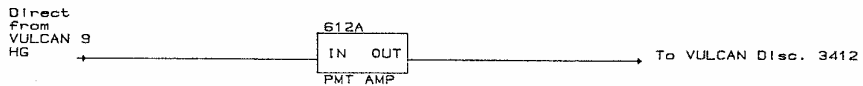
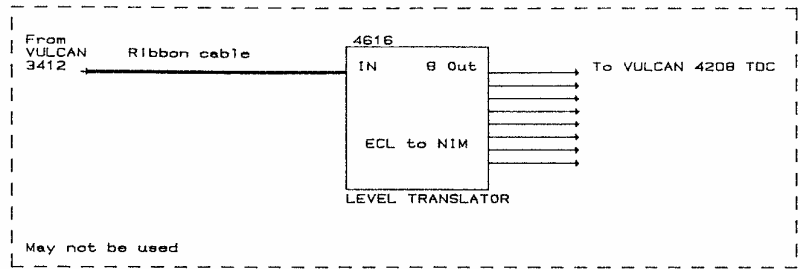
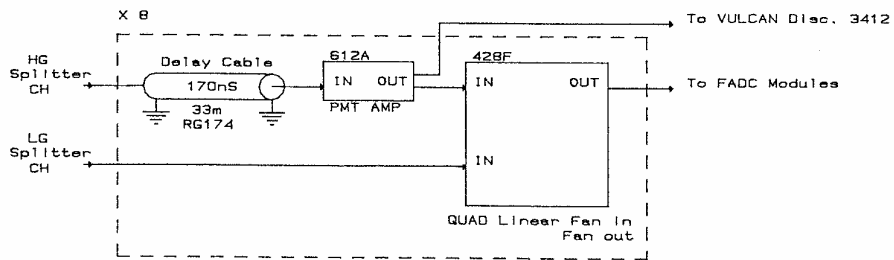
CAMAC MODULES

HOUSE KEEPING CRATE:

Slot	Module	SN
1	LeCroy 3412 16 CH Discriminator	B50728
2	LeCroy 3412 16 CH Discriminator	B50689
3	LeCroy 3412 16 CH Discriminator	B50684
4	LeCroy 3412 16 CH Discriminator	B50688
5	LeCroy 3412E 16 CH Discriminator	B50691
6	LeCroy 3412E 16 CH Discriminator	B50660
7	LeCroy 3412E 16 CH Discriminator	B50725
8	LeCroy 3412E 16 CH Discriminator	B50692
9	-	
10	LeCroy 4413 16 CH Discriminator	B50869
11	LeCroy 4413 16 CH Discriminator	B49507
12	LeCroy 4415A 16 CH Discriminator	B9287
13	LeCroy 4415A 16 CH Discriminator	A94097
14	-	
15	LeCroy FB Port for HV Supply	B03251
16	LeCroy 4532 32 CH MALU	B32188
17	LeCroy 4434 32 CH Scaler	B92199
18	LeCroy 4434 32 CH Scaler	A51629
19	LeCroy 4434 32 CH Scaler	B32193
20	LeCroy 4434 32 CH Scaler	B97084
21	LeCroy 4434 32 CH Scaler	B19960
22	LeCroy 3412 16 CH Discriminator	B5075
23	LeCroy 4434 32 CH Scaler	B1455
24,25	Jorway SCSI Crate Controller 73	-



Mansukh Patel Electronics (Research) Workshop Physics Dept.		
Title AP: SPASE 2 CAMAC CRATE 2 LAYOUT		
Size B	Document Number 1001150197 (SPTRLG6.SCH)	REV 1
Date: January 17, 1997	Sheet 7 of	8



VULCAN Logic NIM Crate NIM Module Layout:

12 Slot Ortec NIM Crate Model 401B

1,2	3	4	5	6	7	8	9	10	11	12	
Jorway Dual Scaler	LeCroy Level Adaptor 688L	PS HEX DISC 711	Spare Slot	LeCroy Linear Fan In Fan out 428F	Spare Slot	LeCroy Linear Fan In Fan out 428F	LeCroy Linear Fan In Fan out 428F	Spare Slot	LeCroy 12 CH PM AMP. 612A	LeCroy Level Trans. ECL-NIM 4616	•
Double Width Module	B43312	14224		B36963		B23804	B49029		A80344	B35666	•

Mansukh Patel Electronics (Research) Workshop Physics Dept.		
Title AP: VULCAN Trigger Logic		
Size B	Document Number Iss:1 100197 (SPTRLG1.SCH)	REV 1
Date: January 17, 1997 Sheet		8 of 8