

SHEET INDEX

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P/O FS 1 - VPM SHELF	B4	L1
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D	L1		3A2
E	L1		2A7
F	L1		2A2
G	L1		1A7
H	L1		1A2
Y	L1		5B6
Z	L1		5B6

DWG ISSUE	CD ISSUE	DATE ISSUED	DRAWN	APPD
L1	-	1-9-88		

SUPPORTING INFORMATION

CATEGORY	NO.

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VIOLATION PULSE  
MONITOR  
SHELF  
APPLICATION SCHEMATIC

(VPM SHELF)

DWG SIZE	ISSUE
65	L1

AT&T BELL LABORATORIES SD-7C536-01 M SHEET A1 OF 11

PART OF FS 1

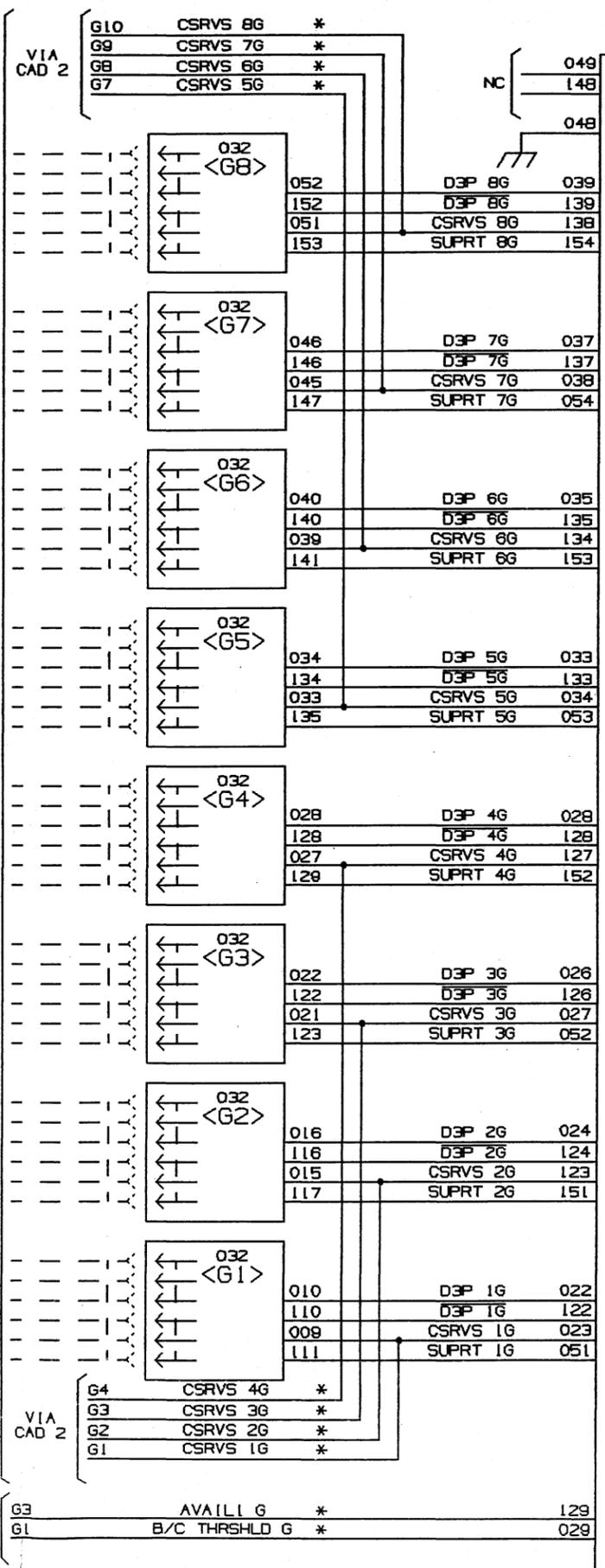
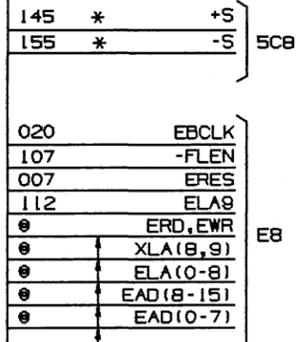
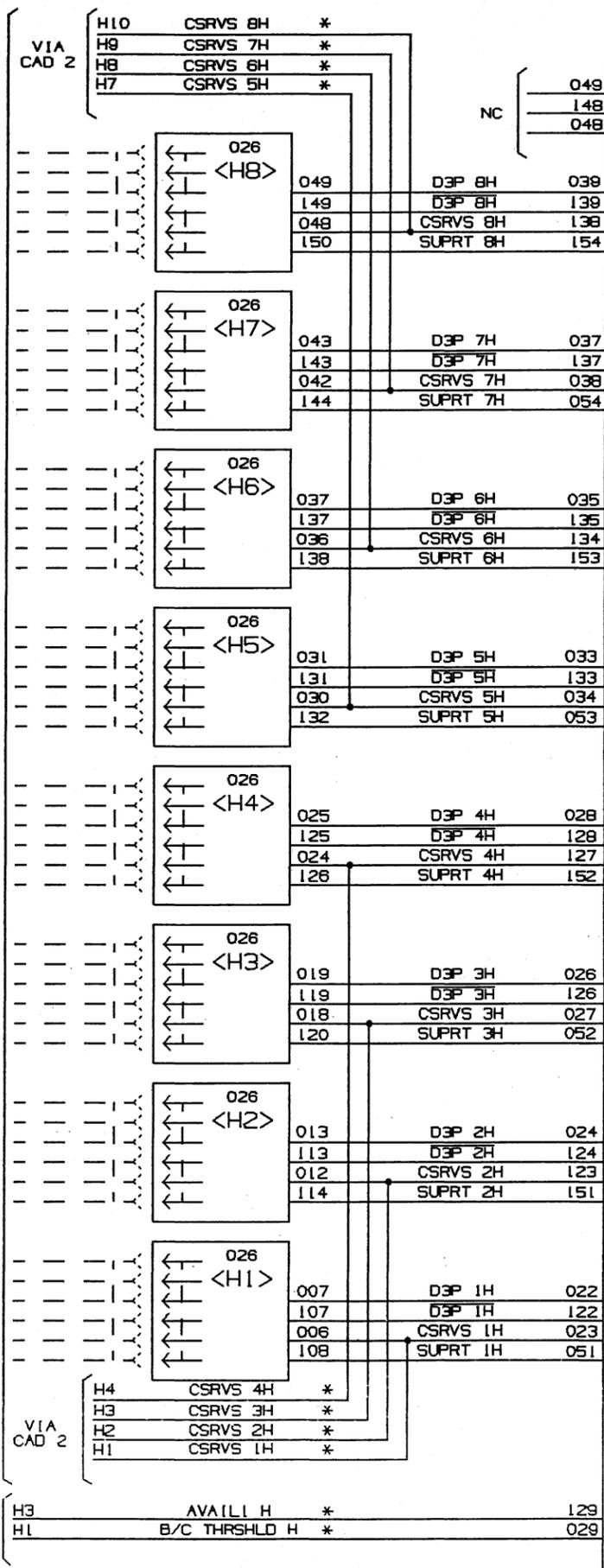
VPM SHELF  
(SEE NOTE 103)

04-080  
AMR118  
VPM INTFC  
<H>

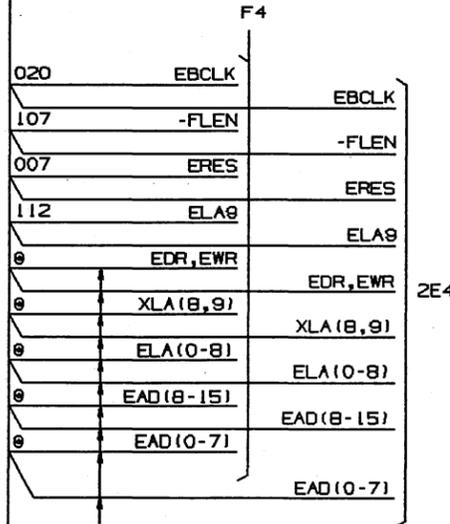
04-088  
AMR118  
VPM INTFC  
<G>

TO SYSTEM BEING MONITORED (SEE SD-7C425-01 OR SD-54535-01) (SEE NOTE XXX)

TO SYSTEM BEING MONITORED (SEE SD-7C425-01 OR SD-54535-01)



NOTES:  
1- \* - DENOTES LOOSE WIRING AND NOT PART OF BACKPLANE PRINTED CIRCUIT.



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VPM SHELF		DWG SIZE	ISSUE
		6S	L1
AT&T BELL LABORATORIES		SD-7C536-01	M
			SHEET
			B1

PART OF FS 1

VPM SHELF  
(SEE NOTE 103)

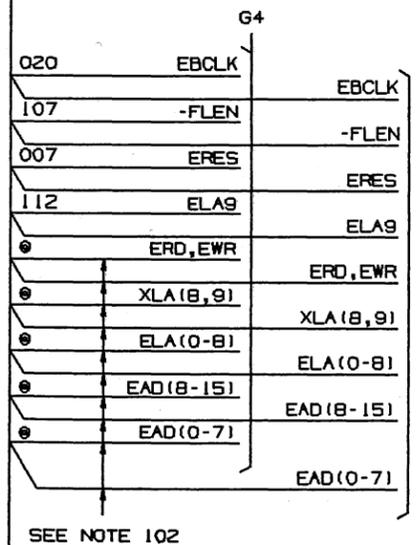
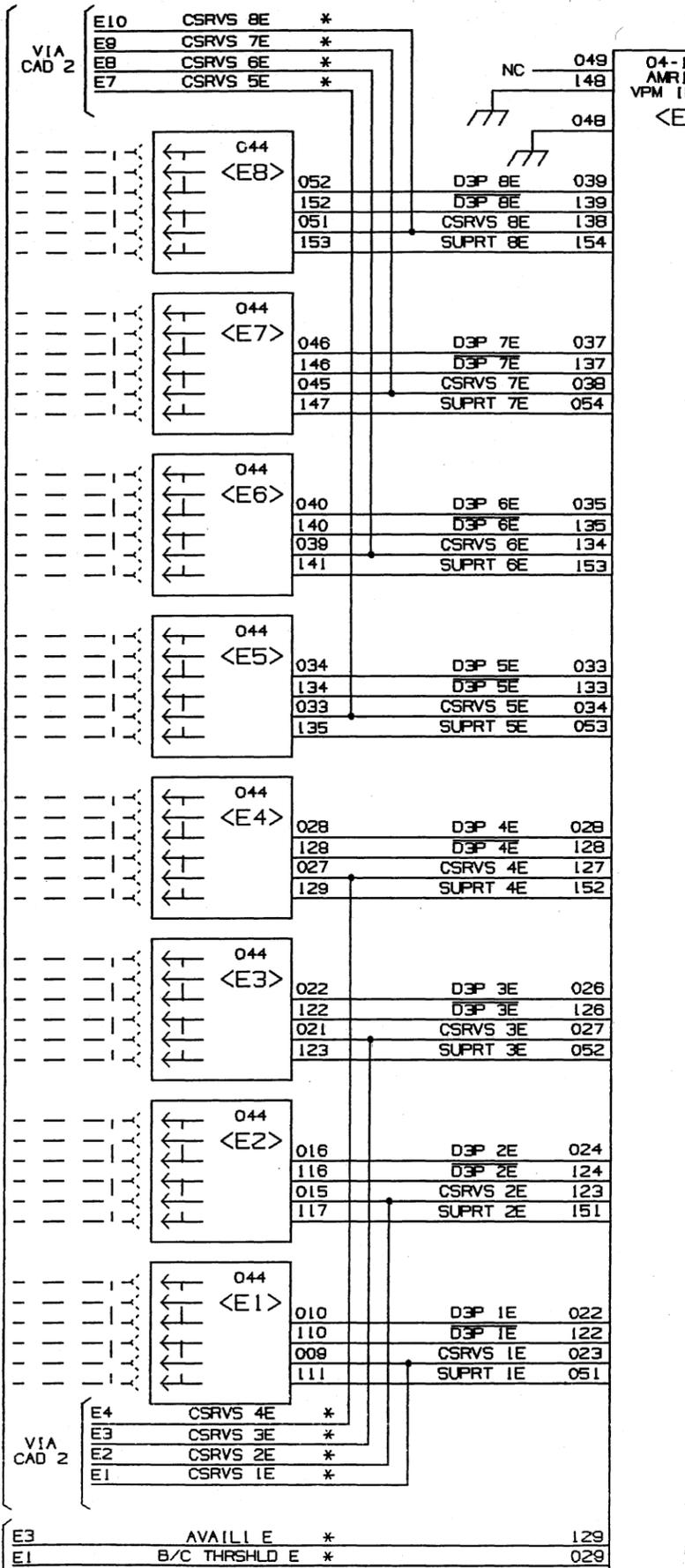
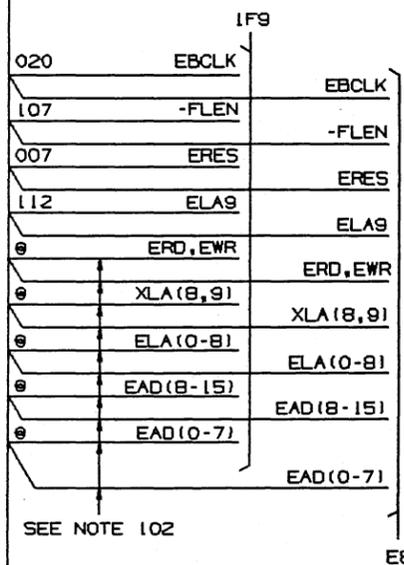
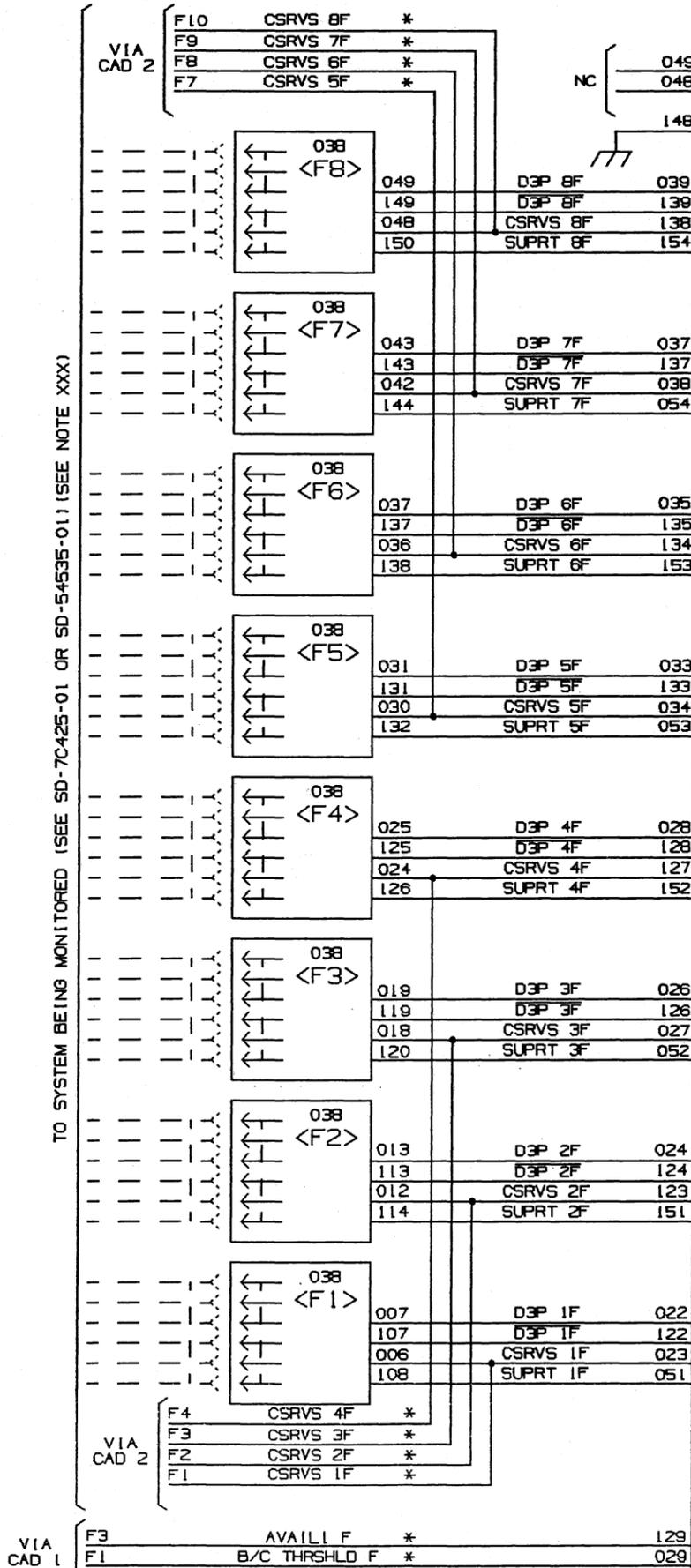
04-096  
AMR118  
VPM INTFC  
<F>

04-104  
AMR118  
VPM INTFC  
<E>

TO SYSTEM BEING MONITORED (SEE SD-7C425-01 OR SD-54535-01) (SEE NOTE XXX)

TO SYSTEM BEING MONITORED (SEE SD-7C425-01 OR SD-54535-01)

NOTES:  
1 - \* - DENOTES LOOSE WIRING AND NOT PART OF BACKPLANE PRINTED CIRCUIT.



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VPM SHELF		DWG SIZE	ISSUE
		65	L1
AT&T BELL LABORATORIES	SD-7C536-01	M	SHEET B2

PART OF FS 1

VPM SHELF  
(SEE NOTE 103)

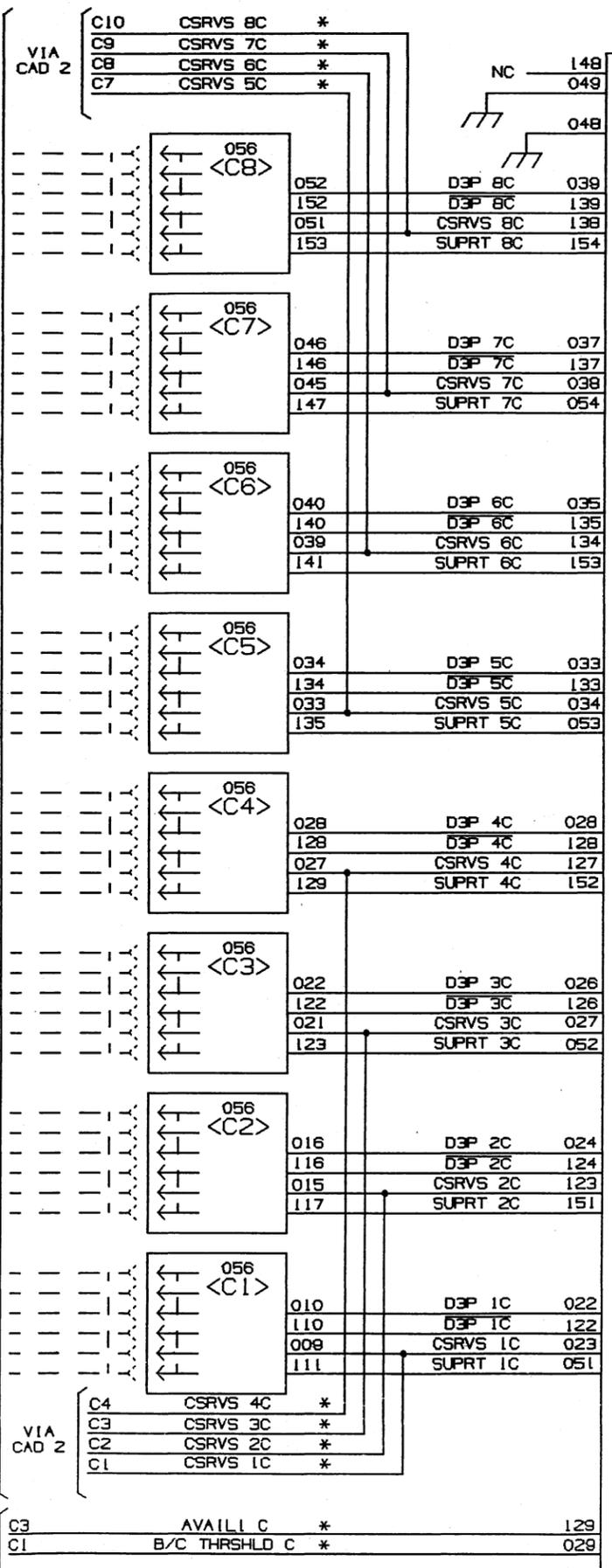
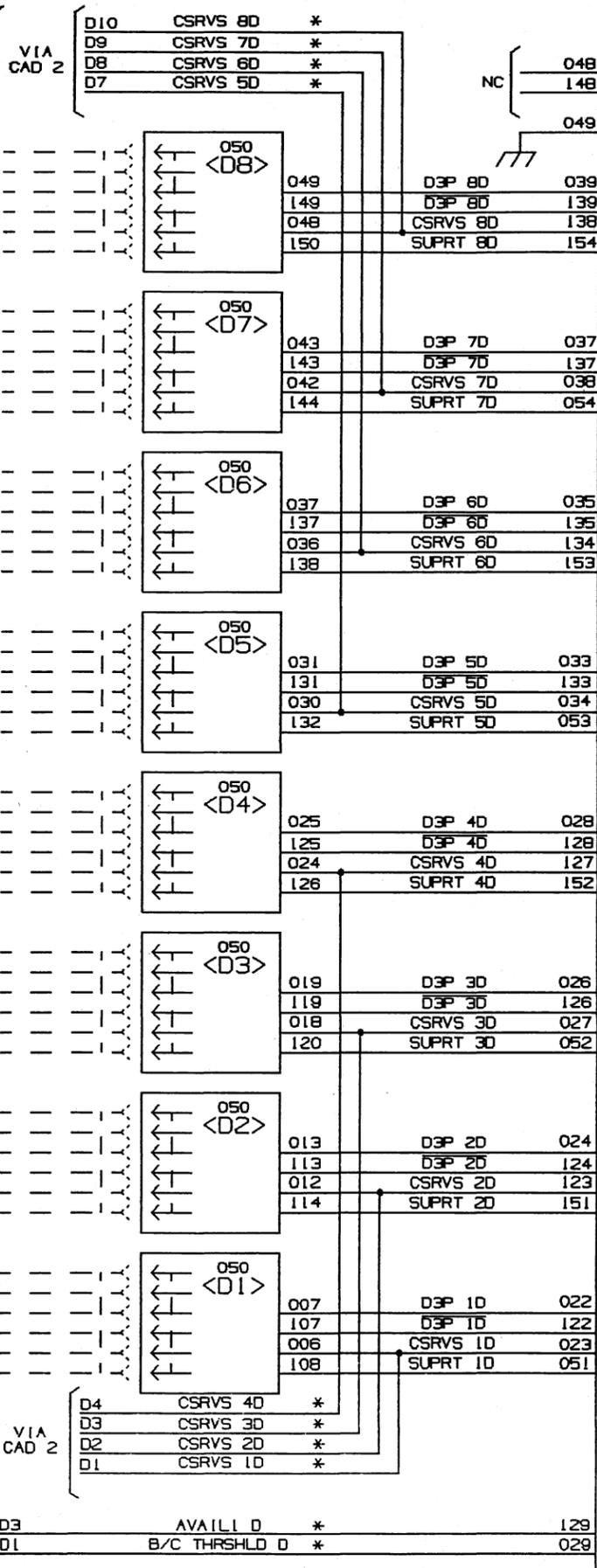
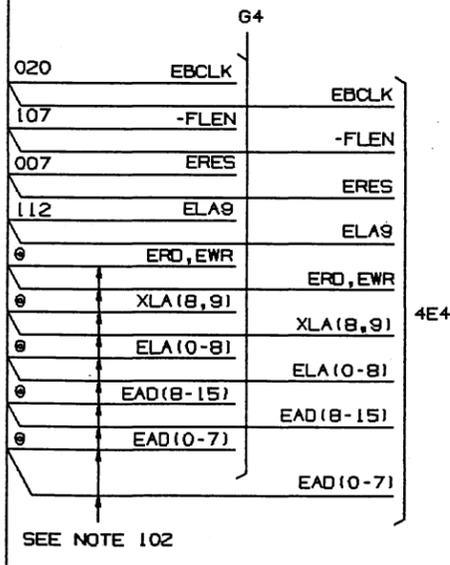
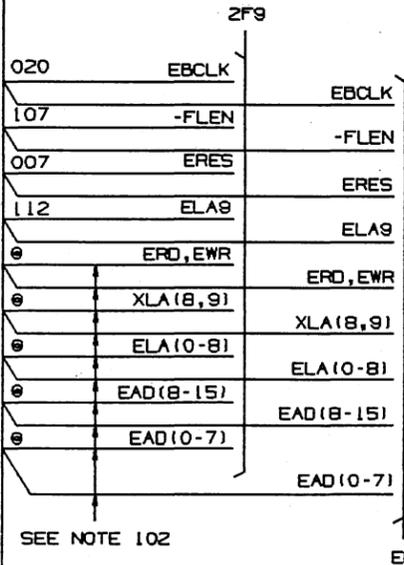
04-112  
AMR118  
VPM INTFC  
<D>

04-120  
AMR118  
VPM INTFC  
<C>

TO SYSTEM BEING MONITORED (SEE SD-7C425-01 OR SD-54535-01) (SEE NOTE XXX)

TO SYSTEM BEING MONITORED (SEE SD-7C425-01 OR SD-54535-01)

NOTES:  
1- \* -DENOTES LOOSE WIRING AND NOT PART OF BACKPLANE PRINTED CIRCUIT.



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VPM SHELF	
DWG SIZE 65	ISSUE L1
AT&T BELL LABORATORIES	SD-7C536-01 M SHEET B3

PART OF FS 1

VPM SHELF  
(SEE NOTE 103)

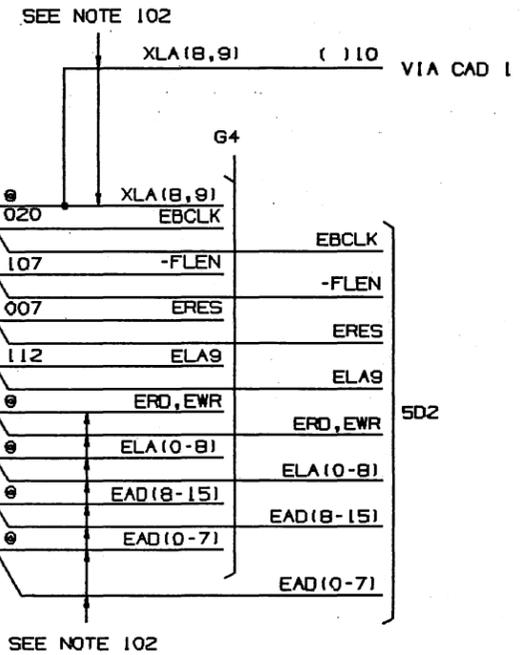
04-128  
AMR118  
VPM INTFC  
<B>

04-136  
AMR118  
VPM INTFC  
<A>

TO SYSTEM BEING MONITORED (SEE SD-7C425-01 OR SD-54535-01) (SEE NOTE XXX)

TO SYSTEM BEING MONITORED (SEE SD-7C425-01 OR SD-54535-01)

NOTES:  
1-\* -DENOTES LOOSE WIRING AND NOT PART OF  
BACKPLANE PRINTED CIRCUIT.



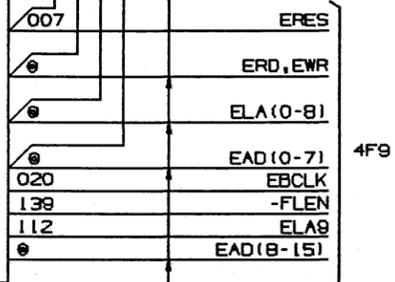
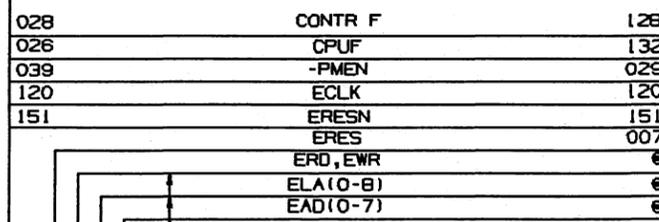
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VPM SHELF

DWG SIZE	ISSUE
65	L1

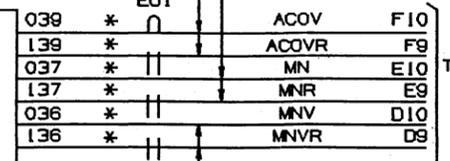
PART OF FS 1  
VPM SHELF  
(SEE NOTE 103)

04-144  
MC 45084A1  
VPM CONTROL

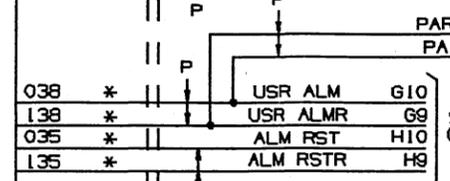


SEE NOTE 102

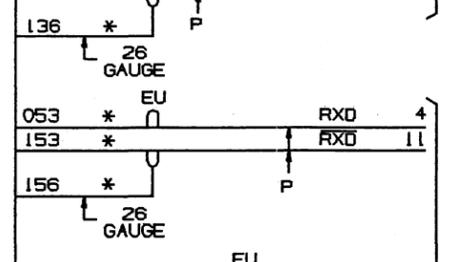
04-152  
MC 45085A1  
VPM  
TELEMETRY



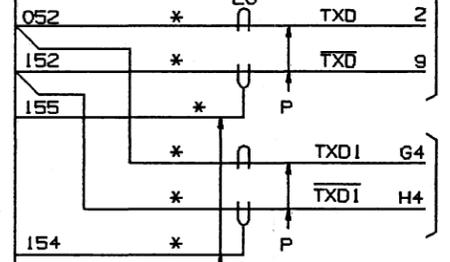
TO OFFICE ALM SYS  
(VIA CAD 1)  
(SEE SD-7C425-01  
OR SD-54535-01)



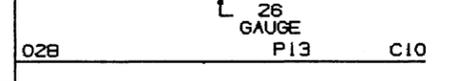
TO REMOTE TEL  
SYS (VIA CAD 1)  
(SEE SD-7C425-01  
OR  
SD-54535-01)



TO REM TEL  
SYS (VIA CAD 3)  
(SEE SD-7C425-01  
OR  
SD-54535-01)

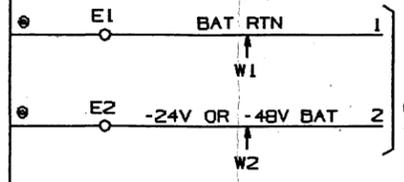


VIA  
CAD 1

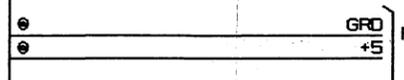


VIA  
CAD 1

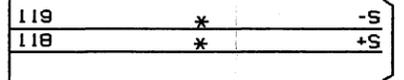
04-164  
471BA  
474BA  
POWER UNIT  
<+5>



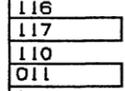
TO BDFB  
(VIA  
CAD 4)



BACKPLANE  
POWER DIST  
(SEE NOTE  
XXX)



1E4



NOTES:  
1-\* -DENOTES LOOSE WIRING AND NOT PART OF  
BACKPLANE PRINTED CIRCUIT.

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VPM SHELF		DWG SIZE	ISSUE
		6S	L1
AT&T BELL LABORATORIES	SD-7C536-01	M	SHEET B5

APP FIG 1  
BACKPLANE & WIRING PER  
FS 1 VPM SHELF

CABLE ASSEMBLY

CA DESIG	W1		W2	
CA CODE	12 GAUGE STRANDED		12 GAUGE STRANDED	
TERMINATION DESIG	E1	TB1-1	E2	TB1-2
TERMINATION CODE	AMP 41898-1		AMP 41898-1	
OPTION				
FS LOCATION	5B7		5B7	
CA COMM CODE	845946219		845946227	

APP FIG 2  
POWER UNIT AND  
CIRCUIT PACKS  
PER FS 1

CIRCUIT PACKS

LOC	04-152	04-144	04-136	04-128	04-120	04-112	04-104	04-096	04-088	04-080
DESIG	VPM TELEMETRY	VPM CONTROL	VPM INTFC							
CODE	MC 45085A1	MC 45084A1	AMR118							
OPTION			A	B	C	D	E	F	G	H
FS LOC	5B3	5B0	4A7	4A2	3A7	3A2	2A7	2A2	1A7	1A2

POWER UNIT

LOC	04-164	
DESIG	POWER UNIT	
CODE	471BA	474BA
OPTION	Z	Y
FS LOC	5B6	5B6

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VPM SHELF		DWG SIZE	ISSUE
		6S	L1
AT&T BELL LABORATORIES		SD-7C536-01	M SHEET C1

CIRCUIT NOTES:

101.

DESIG	AMPS	OPT	POTENTIAL
-24V	10	Z	-24V SIG
-48V	5	Y	-48V SIG
VOLTAGE RANGE			
POTENTIAL	NORMAL		EMERGENCY
-24V SIG	-23V TO -26V		-20V TO -28V
-48V SIG	-48V TO -52.5V		-42.5V TO -52.5V

102.

DATA & ADDRESS BUS I/O			
LEAD DESIG	PIN NUMBER	LEAD DESIG	PIN NUMBER
EAD0	002	ELA0	008
EAD1	102	ELA1	108
EAD2	003	ELA2	009
EAD3	103	ELA3	109
EAD4	004	ELA4	010
EAD5	104	ELA5	110
EAD6	005	ELA6	011
EAD7	105	ELA7	111
EAD8	013	ELA8	012
EAD9	113	ERD	006
EAD10	014	EWR	106
EAD11	114	XL8	149
EAD12	015	XL9	050
EAD13	115		
EAD14	016		
EAD15	116		

103.

BACKPLANE POWER & GROUND TABLE				
POS	GROUND	POS	GROUND	+5
026	008,014,020,026,032,038,044,050,106,112,118,124,130,136,142,148	080	000,001,055,056,100,101,155,156	045,046,047,145,146,147
		088	000,001,055,056,100,101,155,156	045,046,047,145,146,147
032	011,017,023,029,035,041,047,053,109,115,121,127,133,139,145,151	096	000,001,055,056,100,101,155,156	045,046,047,145,146,147
		104	000,001,055,056,100,101,155,156	045,046,047,145,146,147
038	008,014,020,026,032,038,044,050,106,112,118,124,130,136,142,148	112	000,001,055,056,100,101,155,156	045,046,047,145,146,147
		120	000,001,055,056,100,101,155,156	045,046,047,145,146,147
044	011,017,023,029,035,041,047,053,109,115,121,127,133,139,145,151	128	000,001,055,056,100,101,155,156	045,046,047,145,146,147
		136	000,001,055,056,100,101,155,156	045,046,047,145,146,147
050	008,014,020,026,032,038,044,050,106,112,118,124,130,136,142,148	144	000,001,024,028,055,056,100,101,155,156	045,046,047,145,146,147
		152	000,001,055,056,100,101,155,156	045,046,047,145,146,147
056	011,017,023,029,035,041,047,053,109,115,121,127,133,139,145,151	164	000,001,032-043,100,101,132-143	045-056,145-156
062	008,014,020,026,032,038,044,050,106,112,118,124,130,136,142,148	POS	BAT RTN	-24V OR -48V BAT
		164	003,004,005,103,104,105	006,007,008,106,107,108
068	011,017,023,029,035,041,047,053,109,115,121,127,133,139,145,151			

EQUIPMENT NOTES:

201. UNLESS OTHERWISE SPECIFIED:  
 ALL WIRES SHALL BE 28DP.  
 EU- DENOTES KS-22487, L105 26 GAUGE SOLID  
 EU1-DENOTES 816AS SHIELDED CABLE.

INFORMATION NOTES:

301. UNLESS OTHERWISE SPECIFIED:  
 RESISTANCE VALUES ARE IN OHMS.  
 CAPACITANCE VALUES ARE IN MICROFARADS.  
 VALUES PRECEDED BY THE SYMBOL + (PLUS) OR - (MINUS) ARE IN VOLTS.

302.

FEATURE OR OPTION	PROVIDE			
	APP FIG	APP OPT	QUANTITY	SEE NOTE
WIRED VPM SHELF	1		AS REQD	
REQUIRED CIRCUIT PACKS FOR MONITORING UP TO EIGHT DS3 TRIBUTARIES	2		PER VPM SHELF	
	-24V BAT	2	Z	AS REQD
	-48V BAT	2	Y	AS REQD
	16	2	B	AS REQD
	24	2	C	AS REQD
ADDITIONAL CIRCUIT PACKS REQUIRED TO EXPAND MONITORING CAPABILITIES TO UP TO 64 DS3 TRIBUTARIES	32	2	D	AS REQD
	40	2	E	AS REQD
	48	2	F	AS REQD
	56	2	G	AS REQD
	64	2	H	AS REQD

303.

CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPT WAS FURN	SEE NOTE	USE IN CKT	
				AVAIL	DISC AVAIL

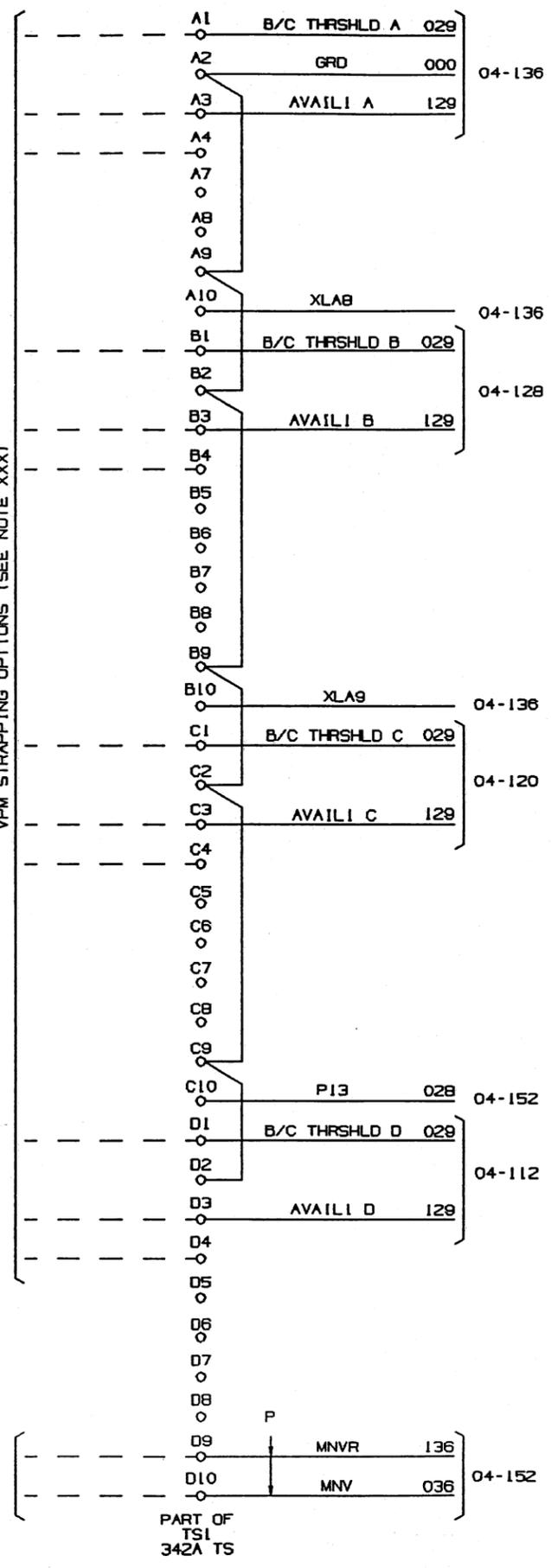
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VPM SHELF		DWG SIZE	ISSUE
		6S	L1
AT&T BELL LABORATORIES		SD-7C536-01	M SHEET 01

CAD 1

VPM STRAPPING OPTIONS (SEE NOTE XXX)

OFF ALM SYS



PART OF TSI 342A TS

SEE NOTE XXX

OFF ALM SYS

SEE NOTE XXX

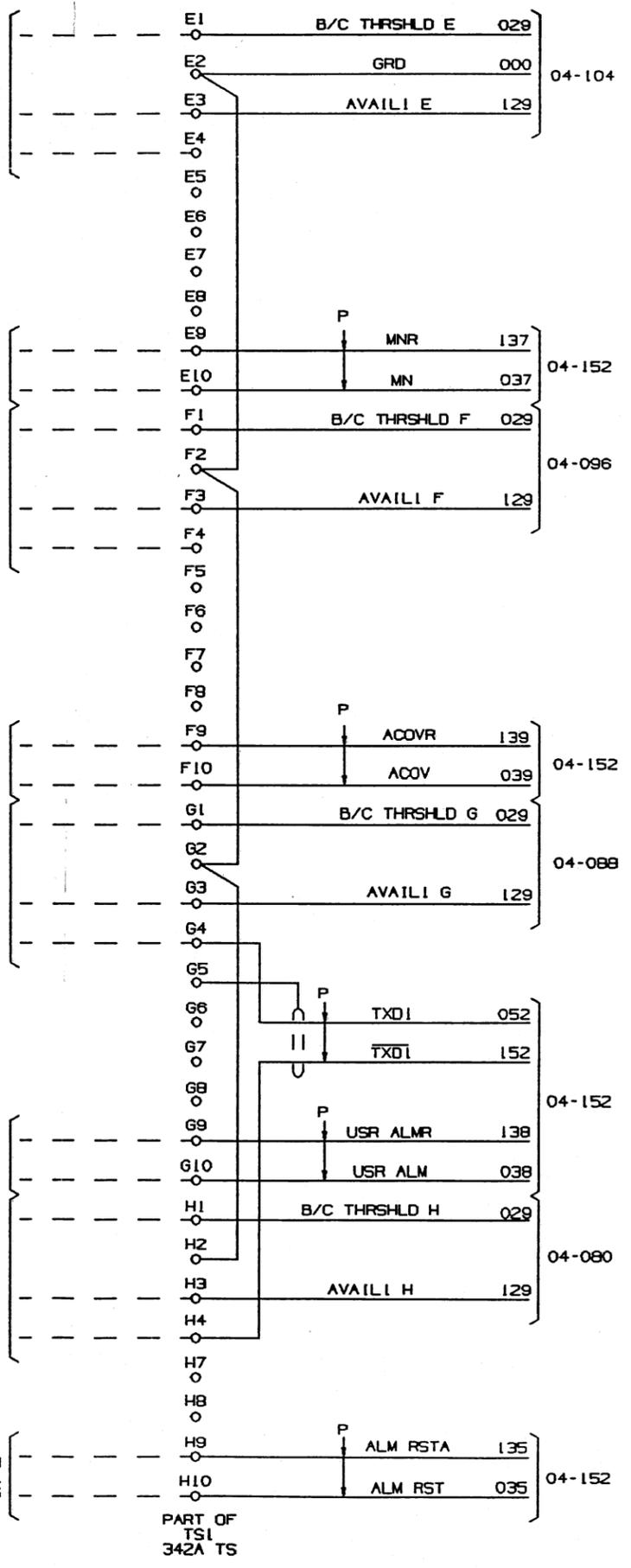
OFF ALM SYS

SEE NOTE XXX

REM TEL SYS

SEE NOTE XXX

REM TEL SYS



PART OF TSI 342A TS

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VPM SHELF		DWG SIZE	ISSUE
		65	L1
AT&T BELL LABORATORIES		SD-7C536-01	M SHEET 61

CAD 2

TO SYSTEM BEING MONITORED (SEE NOTE XXX)

A1	CSRVS 1A	023
A2	CSRVS 2A	123
A3	CSRVS 3A	027
A4	CSRVS 4A	127
A7	CSRVS 5A	034
A8	CSRVS 6A	134
A9	CSRVS 7A	038
A10	CSRVS 8A	138
B1	CSRVS 1B	023
B2	CSRVS 2B	123
B3	CSRVS 3B	027
B4	CSRVS 4B	127
B5		
B6		
B7	CSRVS 5B	034
B8	CSRVS 6B	134
B9	CSRVS 7B	038
B10	CSRVS 8B	138
C1	CSRVS 1C	023
C2	CSRVS 2C	123
C3	CSRVS 3C	027
C4	CSRVS 4C	127
C5		
C6		
C7	CSRVS 5C	034
C8	CSRVS 6C	134
C9	CSRVS 7C	038
C10	CSRVS 8C	138
D1	CSRVS 1D	023
D2	CSRVS 2D	123
D3	CSRVS 3D	027
D4	CSRVS 4D	127
D5		
D6		
D7	CSRVS 5D	034
D8	CSRVS 6D	134
D9	CSRVS 7D	038
D10	CSRVS 8D	138

04-136

04-128

04-120

04-112

PART OF TS2 342A TS

TO SYSTEM BEING MONITORED (SEE NOTE XXX)

E1	CSRVS 1E	023
E2	CSRVS 2E	123
E3	CSRVS 3E	027
E4	CSRVS 4E	127
E5		
E6		
E7	CSRVS 5E	034
E8	CSRVS 6E	134
E9	CSRVS 7E	038
E10	CSRVS 8E	138
F1	CSRVS 1F	023
F2	CSRVS 2F	123
F3	CSRVS 3F	027
F4	CSRVS 4F	127
F5		
F6		
F7	CSRVS 5F	034
F8	CSRVS 6F	134
F9	CSRVS 7F	038
F10	CSRVS 8F	138
G1	CSRVS 1G	023
G2	CSRVS 2G	123
G3	CSRVS 3G	027
G4	CSRVS 4G	127
G5		
G6		
G7	CSRVS 5G	034
G8	CSRVS 6G	134
G9	CSRVS 7G	038
G10	CSRVS 8G	138
H1	CSRVS 1H	023
H2	CSRVS 2H	123
H3	CSRVS 3H	027
H4	CSRVS 4H	127
H7	CSRVS 5H	034
H8	CSRVS 6H	134
H9	CSRVS 7H	038
H10	CSRVS 8H	138

04-104

04-096

04-088

04-080

PART OF TS2 342A TS

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VPM SHELF		DWG SIZE	ISSUE
		6S	L1
AT&T BELL LABORATORIES	SD-7C536-01	M	SHEET G2

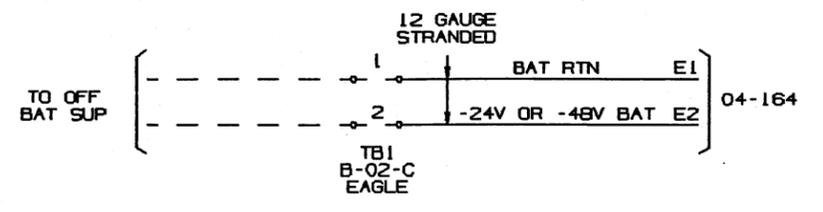
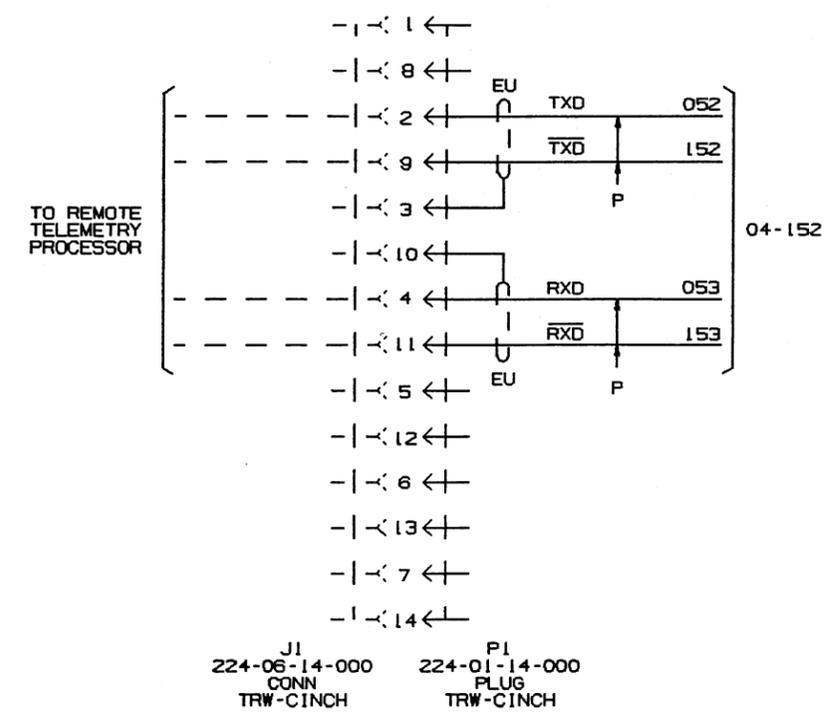
A B C D E F G H

A B C D E F G H

0 1 2 3 4 5 6 7 8 9

### CAD 3

### CAD 4



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VPM SHELF		DWG SIZE	ISSUE
		6S	L1
AT&T BELL LABORATORIES	SD-70536-01	M	SHEET G3

A  
B  
C  
D  
E  
F  
G  
H

A  
B  
C  
D  
E  
F  
G  
H

0 1 2 3 4 5 6 7 8 9