INSTALLATION & MAINTENANCE MANUAL
SIMULCAST SYSTEM DRAWINGS
CONTROL POINT COMMON EQUIPMENT
4 SITE, 24 CHANNELS (RS-232 VERSION)

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ERICSSON

Ericsson Inc.
Private Radio Systems
Mountain View Road
Lynchburg, Virginia 24502
1-800-528-7711 (Outside USA, 804-528-7711)

Printed in U.S.A.

DESCRIPTION

This manual contains the equipment configuration drawings and cable inter- and intra-rack wiring diagrams for installation and maintenance of an RS-232 Simulcast Control Point with up to 4 Sites and up to 24 Channels. The cable connection lists provide detailed rack interconnect cabling information that supports the wiring diagram referenced in the Table of Contents. Configuration drawings identify the location of the equipment modules in each shelf. Being familiar with the information contained on each of these drawings make servicing the Simulcast System easier.

Configuration drawings identify the function of each shelf (GETC, Digital, Test Equipment, and Analog racks) used in the Simulcast **E**nhanced **D**igital **A**ccess **C**ommunications **S**ystem (**EDACS®**) and specifies the site assignments for the analog delay shelf located in the analog rack. The configuration drawings also show the rear view of the racks to identify the interconnecting jack and plug connectors for each shelf on the digital and analog equipment racks.

Each item in the simulcast system is identified by a four digit number which defines the cross connect panel to which it is connected, the shelf, and channel number, if applicable. The cross connect panels are identified by an alpha/numeric number sequence as defined below:

1st Digit	Connects To
"A"	Analog Cross Connect
"C"	Control Panel Cross Connect
"D"	Digital Cross Connect
"T"	Transmit Site Cross Connect

The second digit defines the shelf type while the 3rd and 4th digit define the associated channel number, if applicable.

Digit	Shelf
1	Modem Shelf
2	Analog Delay Shelf
3	Digital Delay Shelf
4	Analog Processing Shelf 1 (Equalizer)
5	GETC Interface
6	Jackfield
7	Analog Processing Shelf #2
8	Universal Sync Shelf
9	Control Panel

Digits 3 & 4
01 - Channel 1
02 - Channel 2
xx - Channel xx

For example D501 decodes as shown below:

D501

"D"	Digital Cross Connect
"5"	GETC I/F
"01"	Channel Number

INTRARACK CABLING

Field installation drawings show the rack/cabinet dc power and signal cabling interconnections between the Simulcast Digital, Analog and Test Equipment Racks and also between the Digital Rack of the Simulcast equipment and the GETC, RIC and Site Controller cabinets.

The Intrarack Cable Connection List (344A4889) identifies all interconnecting cables and their termination points for a 4 site 24 channel system. For a complete system, each cable listed on the cable connection list must be installed and verified at the time of installation. However, system equipped with less than 4 sites and 24 channels will not have all the signal cables listed on the connection list installed. Only those cables required to bring the system up to the specified customer configuration of sites and channels will be installed. Drawings 19C852598, sheet 1 and 19C852388 defines the signal cable routing. Drawing 19C852388 is for 24 channel operation. Drawing and 19C852598, sheet 2 defines the dc power cable routing.

DC POWER INTRARACK WIRING

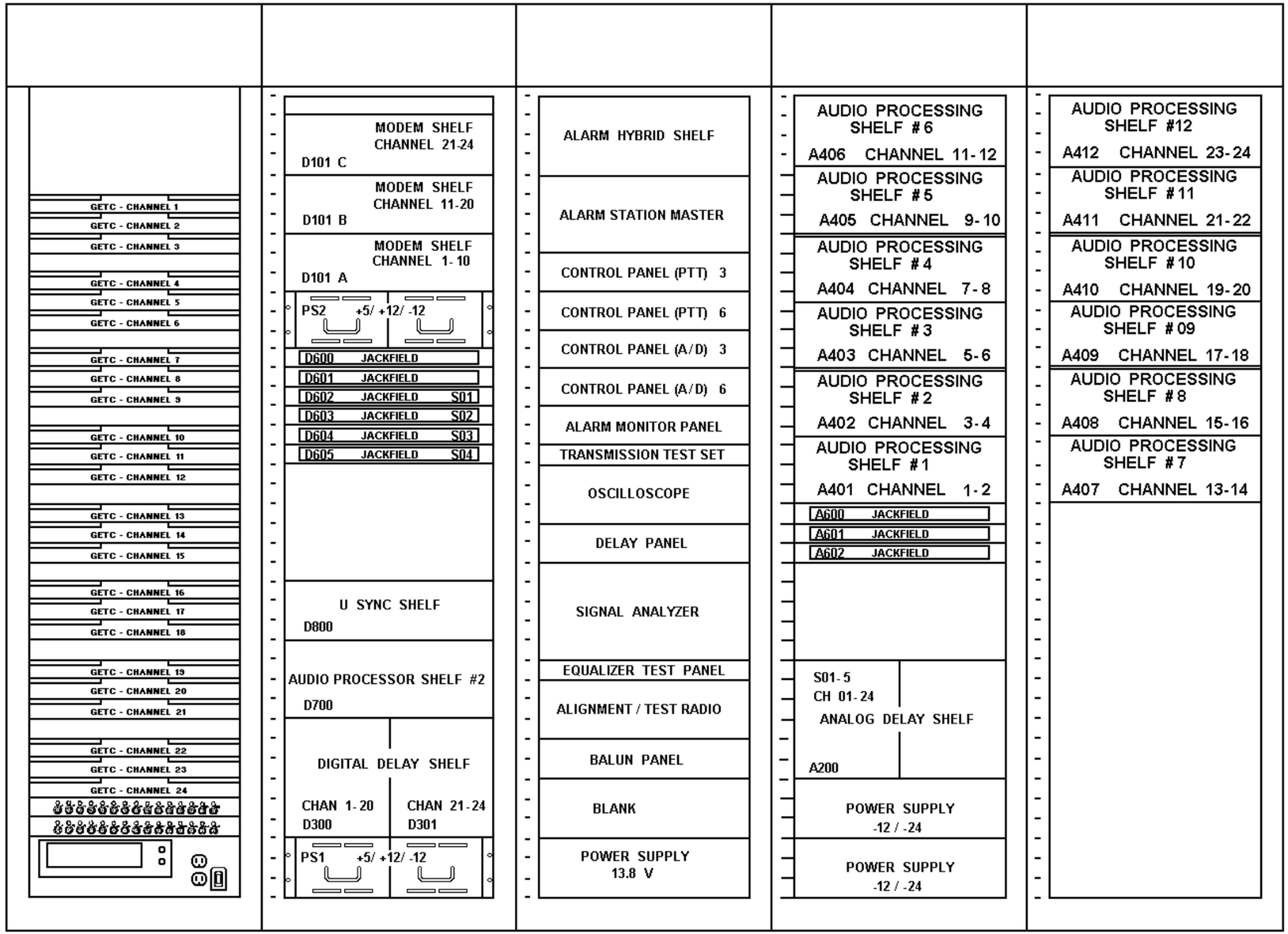
DC power wiring diagram 19C852590, sheets 1-4 shows the power distribution from the power supplies through the Analog and Digital Power Distribution Panels to the equipment shelves in the digital and analog racks. Sheets 1 and 2 define the power cabling to the digital rack and Sheet 3 defines the power cabling to analog rack 2.

Cable connection list 344A4658P1 provides module location and identification information, P2 (Digital Rack 1) and P4 (Analog Rack 2), are referenced on the respective DC Power Wiring Diagrams and identify all interconnecting power cables between the power distribution panels and their termination points on the equipment shelves. Also listed is the dc power wiring between the power supplies and the respective power distribution panel. All intrarack wiring and cabling is completed and verified at the factory.

The Digital Cross Connect diagram defines the cable connections between the Digital Cross Connect Panel B400 and Connector Panel (GETC Rack, cross connects and alarms), Digital Delay Shelf D300, Analog Processing Shelf #2 D700, Universal Sync Shelf D800, Timing Module B403 from the multiplex equipment, and interconnections to the Digital Dispatch Option.

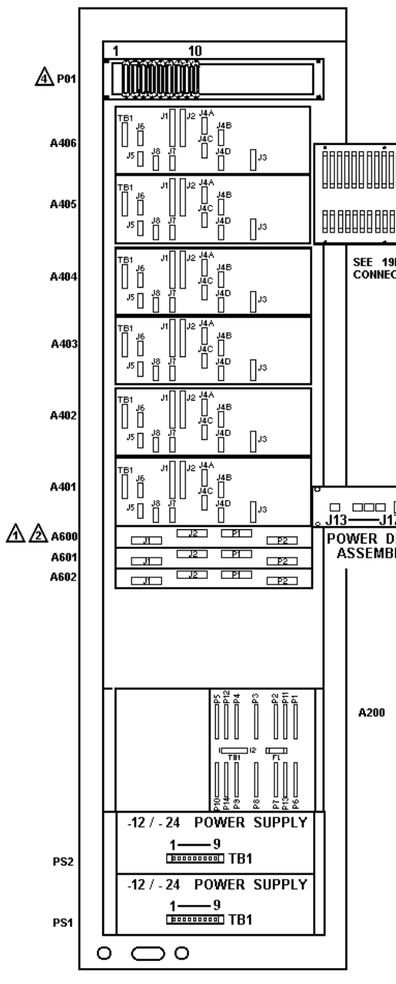
In addition, the diagram shows the data and clock interconnections, for each site, through the jackfields to Digital Cross Connect Panel and the station voter interface. The Analog Cross Connect Diagram shows the interconnections between Analog Cross Connect B401 and Analog Delay Shelf A200, and Analog Processing Shelves A401-A405. The analog processing shelves house the voice channel conditioning equipment for the simulcast system. The diagram also shows the 150 baud data and analog BSEL connections to the digital cross connect panel through connector panel #1.

Refer to LBI-38997, Test Rack, for Alarm/Control system intrarack connections and to LBI-38928 for the GETC intrarack connections.

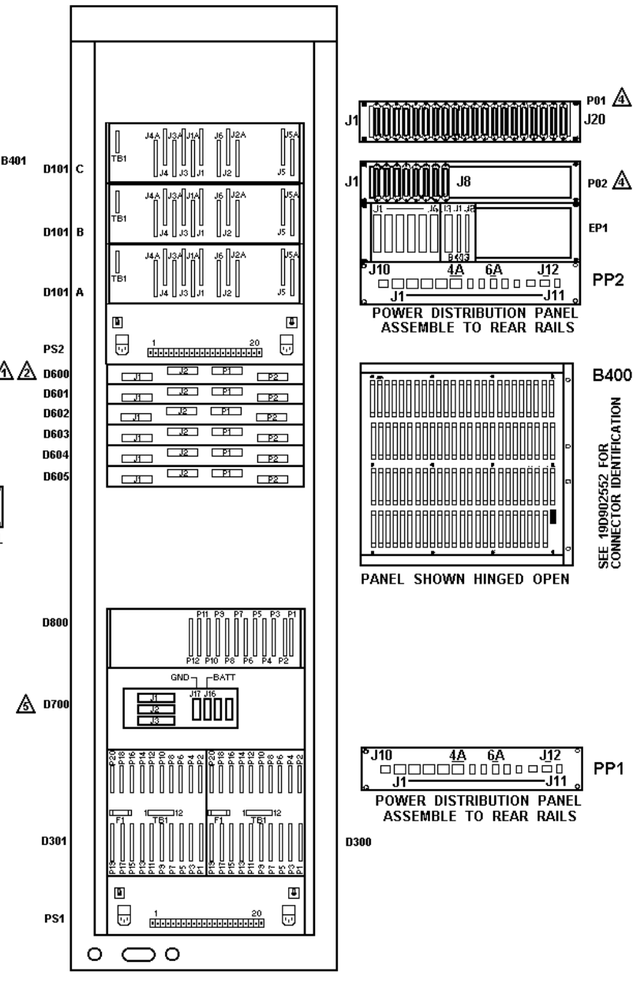


4 SITE 24 CHANNEL CONFIGURATION
Equipment Rackup, Front View

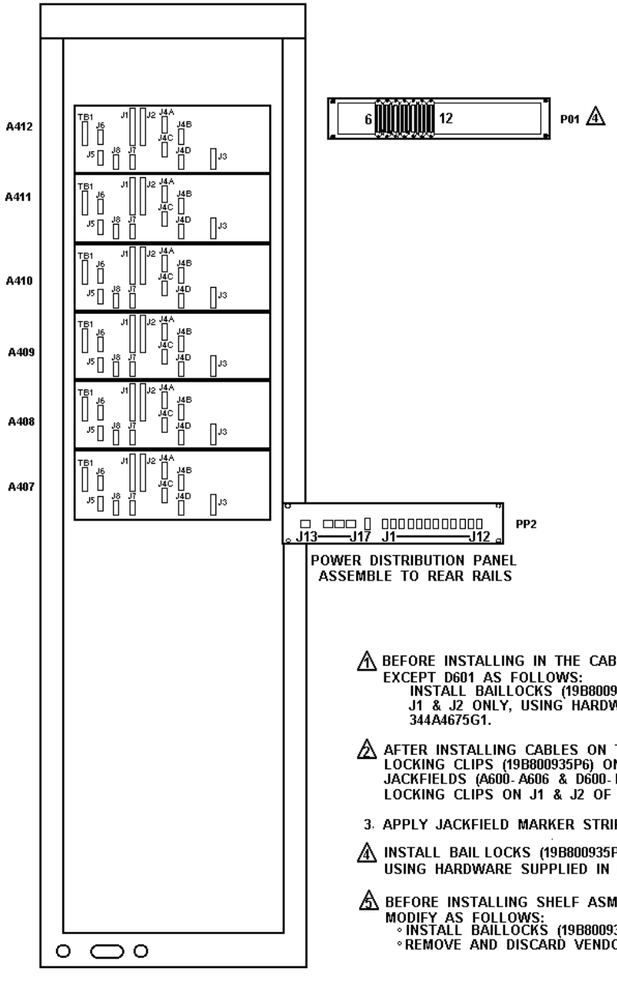
(19D904160, Sh. 34, Rev. 1)



(37) RACK 3
REAR VIEW



(46) RACK 1
REAR VIEW



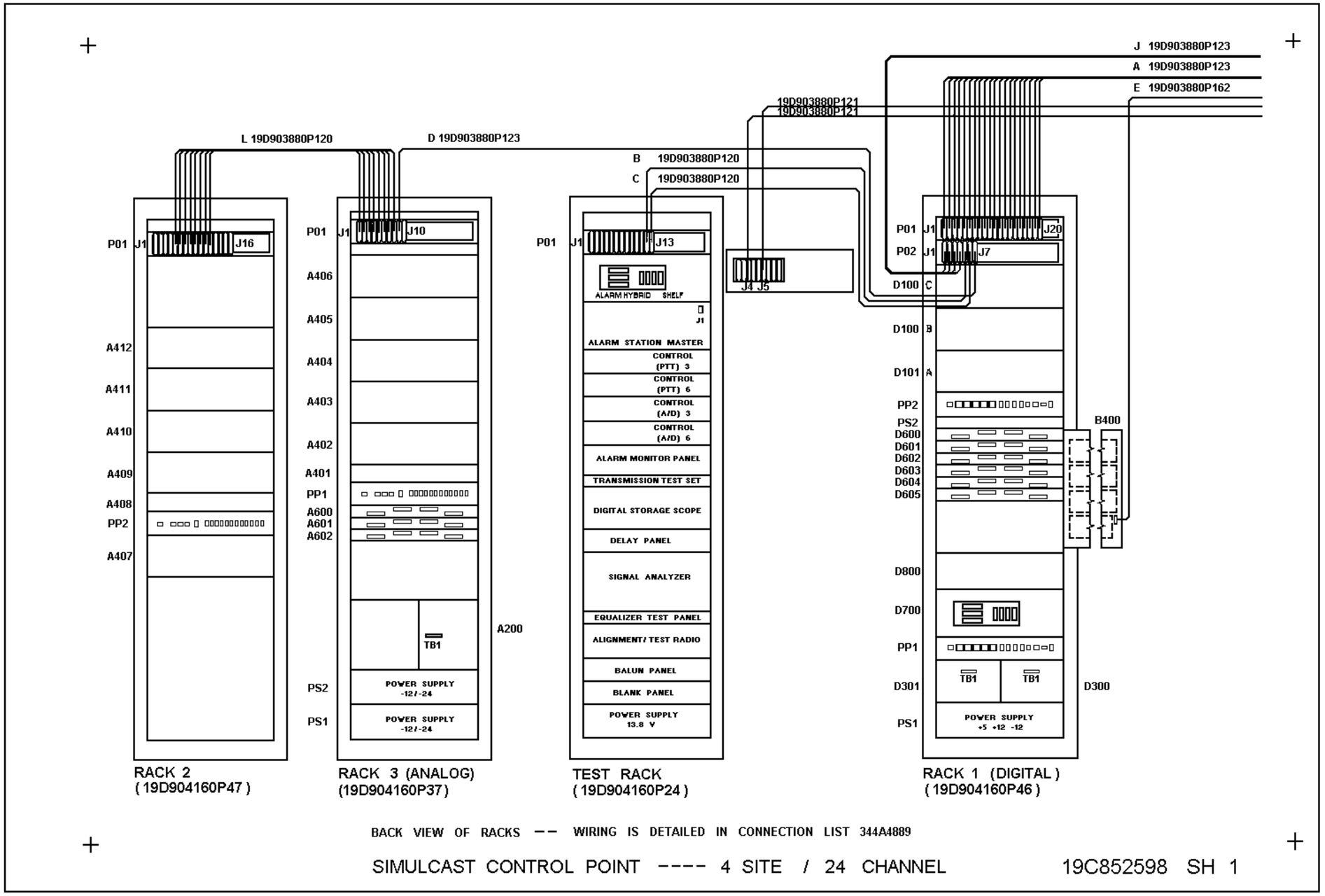
(47) RACK 2
REAR VIEW

1. BEFORE INSTALLING IN THE CABINET, MODIFY ALL JACKFIELDS EXCEPT D601 AS FOLLOWS:
   INSTALL BAILLOCKS (19B800935P16) ON CONNECTORS J1 & J2 ONLY, USING HARDWARE SUPPLIED IN KIT 344A4675G1.
2. AFTER INSTALLING CABLES ON THE JACKFIELDS, INSTALL LOCKING CLIPS (19B800935P6) ON P1 & P2 OF ALL JACKFIELDS (A600- A606 & D600- D611) ALSO INSTALL LOCKING CLIPS ON J1 & J2 OF D601 ONLY.
3. APPLY JACKFIELD MARKER STRIPS PER 19C852404 AND 19B803824
4. INSTALL BAIL LOCKS (19B800935P16) ON ALL CONNECTORS, USING HARDWARE SUPPLIED IN KIT 344A4675G1.
5. BEFORE INSTALLING SHELF ASM. 19D902544G1 IN THE CABINET, MODIFY AS FOLLOWS:
   - INSTALL BAILLOCKS (19B800935P16) ON CONNECTORS J1, J2 & J3
   - REMOVE AND DISCARD VENDOR SUPPLIED LOCKING BAR ASSEMBLY

4 SITE / 24 CHANNEL

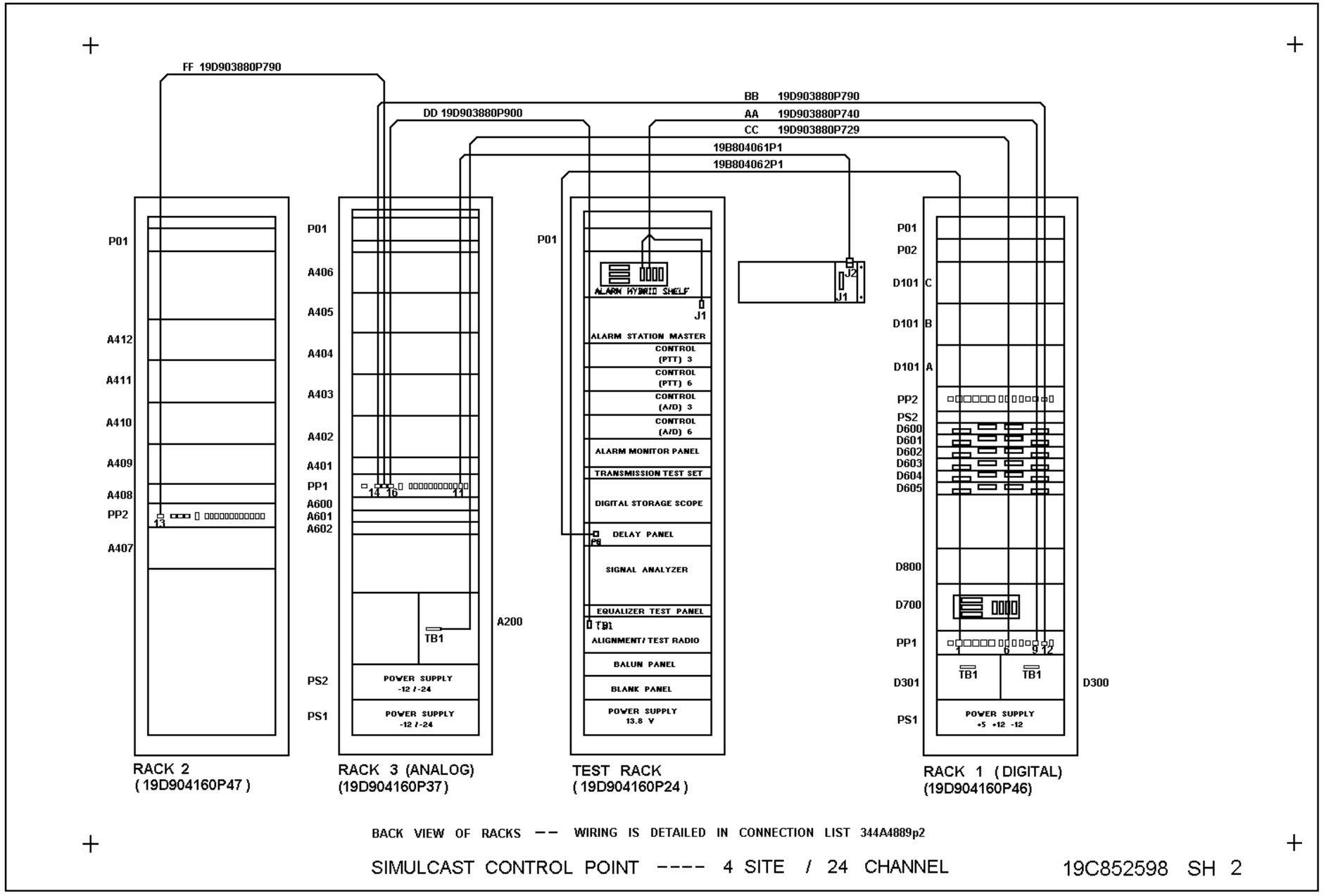
4 SITE 24 CHANNEL CONFIGURATION
Equipment Rackup, Rear View

(19D904160, Sh. 35, Rev. 1)



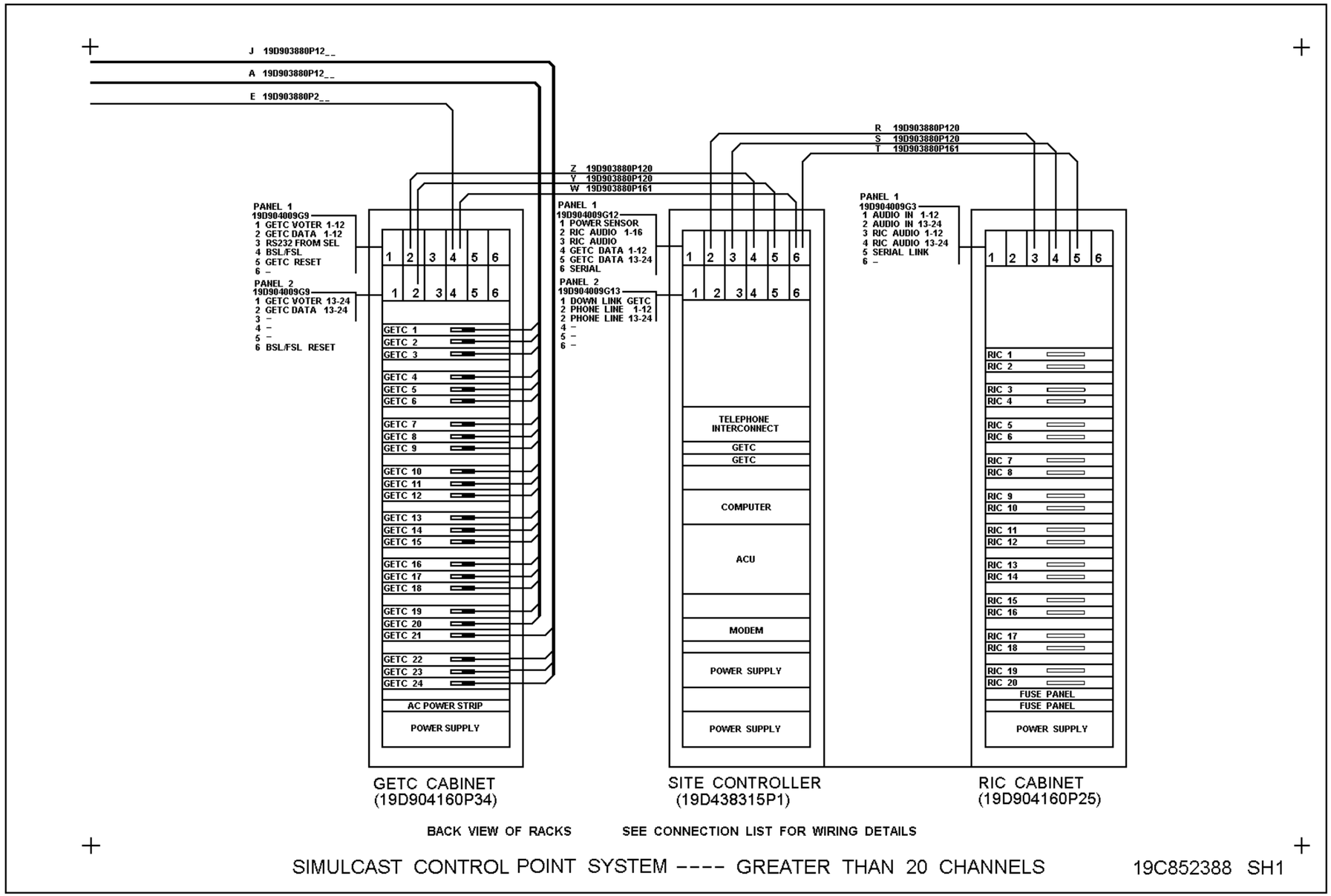
4 SITE 24 CHANNEL CONFIGURATION
Interrack Signal Cabling

(19C852598, Sh. 1, Rev. 1)



4 SITE 24 CHANNEL CONFIGURATION
Interrack Power Cabling

(19C852598, Sh. 2, Rev. 1)



4 SITE 24 CHANNEL CONFIGURATION
Interrack Signal Cabling (For 24 Channel Operation)
(19C852388, Rev. 0)

PART 2 CABINET TO CABINET CABLES (RS232 DATA VERSION)

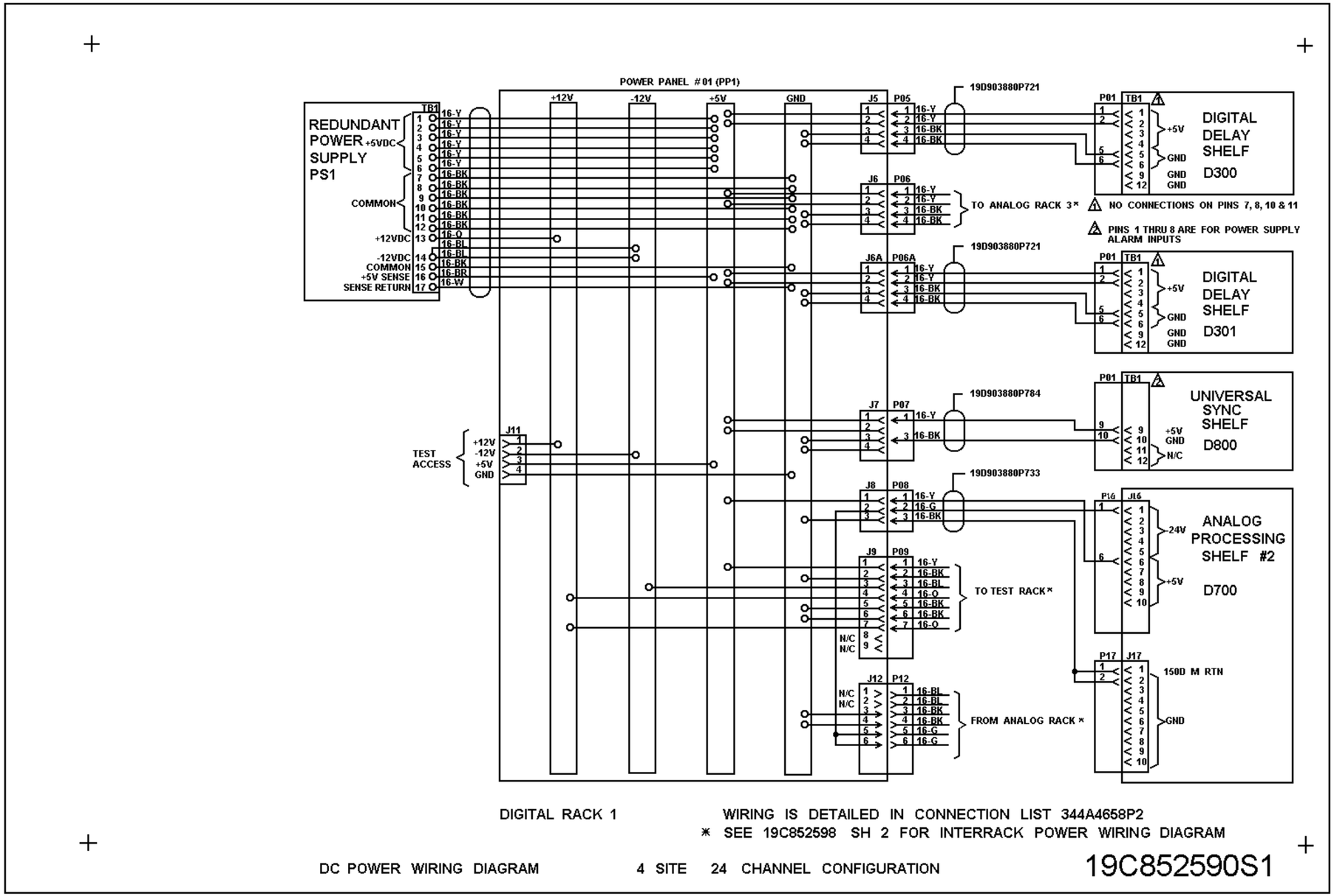
RACK #1	CONNECTOR PANEL 01	P01	GETC RACK #	GETC CH 01		19D903880P123	A
RACK #1	CONNECTOR PANEL 01	P02	GETC RACK #	GETC CH 02		19D903880P123	A
RACK #1	CONNECTOR PANEL 01	P03	GETC RACK #	GETC CH 03		19D903880P123	A
RACK #1	CONNECTOR PANEL 01	P04	GETC RACK #	GETC CH 04		19D903880P123	A
RACK #1	CONNECTOR PANEL 01	P05	GETC RACK #	GETC CH 05		19D903880P123	A
RACK #1	CONNECTOR PANEL 01	P06	GETC RACK #	GETC CH 06		19D903880P123	A
RACK #1	CONNECTOR PANEL 01	P07	GETC RACK #	GETC CH 07		19D903880P123	A
RACK #1	CONNECTOR PANEL 01	P08	GETC RACK #	GETC CH 08		19D903880P123	A
RACK #1	CONNECTOR PANEL 01	P09	GETC RACK #	GETC CH 09		19D903880P123	A
RACK #1	CONNECTOR PANEL 01	P10	GETC RACK #	GETC CH 10		19D903880P123	A
RACK #1	CONNECTOR PANEL 01	P11	GETC RACK #	GETC CH 11		19D903880P123	A
RACK #1	CONNECTOR PANEL 01	P12	GETC RACK #	GETC CH 12		19D903880P123	A
RACK #1	CONNECTOR PANEL 01	P13	GETC RACK #	GETC CH 13		19D903880P123	A
RACK #1	CONNECTOR PANEL 01	P14	GETC RACK #	GETC CH 14		19D903880P123	A
RACK #1	CONNECTOR PANEL 01	P15	GETC RACK #	GETC CH 15		19D903880P123	A
RACK #1	CONNECTOR PANEL 01	P16	GETC RACK #	GETC CH 16		19D903880P123	A
RACK #1	CONNECTOR PANEL 01	P17	GETC RACK #	GETC CH 17		19D903880P123	A
RACK #1	CONNECTOR PANEL 01	P18	GETC RACK #	GETC CH 18		19D903880P123	A
RACK #1	CONNECTOR PANEL 01	P19	GETC RACK #	GETC CH 19		19D903880P123	A
RACK #1	CONNECTOR PANEL 01	P20	GETC RACK #	GETC CH 20		19D903880P123	A
RACK #1	CONNECTOR PANEL 02	P01	GETC RACK #	GETC CH 21		19D903880P123	J
RACK #1	CONNECTOR PANEL 02	P02	GETC RACK #	GETC CH 22		19D903880P123	J
RACK #1	CONNECTOR PANEL 02	P03	GETC RACK #	GETC CH 23		19D903880P123	J
RACK #1	CONNECTOR PANEL 02	P04	GETC RACK #	GETC CH 23		19D903880P123	J
RACK #1	CONNECTOR PANEL 02	P05	RACK TEST CONNECTOR PANEL 01		P13	19D903880P120	B
RACK #1	CONNECTOR PANEL 02	P06	RACK TEST CONNECTOR PANEL 01		P13	19D903880P120	C
RACK #1	CONNECTOR PANEL 02	P07	RACK #3 CONNECTOR PANEL 01		P09	19D903880P123	D
RACK #1	CONNECTOR PANEL 02	P08	FIELD INSTAL DIGITAL ALARMS				
DIGITAL	CROSS CONNECT	P97	GETC CAB. SYNCCTRL BSL/FSL		J24	19D903880P162	E
RACK #3	CONNECTOR PANEL 01	P10	FIELD INSTAL ANALOG BSEL				
RACK #3	CONNECTOR PANEL 01	P01	RACK #2 CONNECTOR PANEL 01		P05	19D903880P120	L
RACK #3	CONNECTOR PANEL 01	P02	RACK #2 CONNECTOR PANEL 01		P06	19D903880P120	L
RACK #3	CONNECTOR PANEL 01	P03	RACK #2 CONNECTOR PANEL 01		P07	19D903880P120	L
RACK #3	CONNECTOR PANEL 01	P04	RACK #2 CONNECTOR PANEL 01		P08	19D903880P120	L
RACK #3	CONNECTOR PANEL 01	P05	RACK #2 CONNECTOR PANEL 01		P09	19D903880P120	L
RACK #3	CONNECTOR PANEL 01	P06	RACK #2 CONNECTOR PANEL 01		P10	19D903880P120	L
RACK #3	CONNECTOR PANEL 01	P07	RACK #2 CONNECTOR PANEL 01		P11	19D903880P120	L
RACK #3	CONNECTOR PANEL 01	P08	RACK #2 CONNECTOR PANEL 01		P12	19D903880P120	L
PP1	RACK #1 POWER PANEL #01 J09		TEST RACK ALARM SHELF		J01	19D903880P740	AA
			HYBRID SHELF		POWER		
			HYBRID SHELF		GROUND		
PP1	RACK #1 POWER PANEL #01 J12		RACK #3 POWER PANEL #01(-24)		J14	19D903880P790	BB
PP1	RACK #1 POWER PANEL #01 J06		RACK #3 ANALOG DELAY SHELF		TB1(A200	19D903880P729	CC
PP1	RACK #3 POWER PANEL #01 J16		TEST RACK ALIGNMENT REC		TB1	19D903880P900	DD
PP1	RACK #2 POWER PANEL #02 J13		RACK #3 POWER PANEL #01		J15	19D903880P790	FF
PP1	RACK #1 POWER PANEL #01 J01		TEST RACK DELAY PANEL		P8	19B804061	P1
PP1	RACK #3 POWER PANEL #01 J11		TEST RACK CPR MODULE		J2 1	9B804062	P1

SITE CONTROLLER TO THE GETC RACK AND TO THE RIC RACK

GETC RACK					CABLE	LENGTH
PANEL 1	MODULE 2	GETC DATA 1-12	J14 SITE CNTL PANEL 1 MODULE 4	J14	Z 19D903880P120	5’
PANEL 1	MODULE 1					
PANEL 1	MODULE 3					
PANEL 1	MODULE 4	BSL/FSL	J21 SITE CNTL PANEL 1 MODULE 6	J07	W 19D903880P161	6’
PANEL 1	MODULE 5	GETC RESET				
PANEL 1	MODULE 6	NOT USED IN SIMULCAST SYSTEM				
PANEL 2	MODULE 2	GETC DATA 13-24 J	14 SITE CNTL PANEL 1 MODULE 5	J14	V 19D903880P120	5’
RIC RACK						
PANEL 1	MODULE 3	RIC AUDIO (LIX)1-12	J14 SITE CNTL PANEL 1 MOD2	J14	R 19D903880P120	5’
PANEL 1	MODULE 4	RIC AUDIO (LIX)13-24	J14 SITE CNTL PANEL 1 MOD3	J14	S 19D903880P120	5’
PANEL 1	MODULE 5	SERIAL LINK	J21 SITE CNTL PANEL 1 MOD6	J04	T 19D903880P161	6’
PANEL 1	MODULE 6					
SITE CONTROLLER						
PANEL 2	MODULE 2	EXTERNAL PHONE LINE 1-12 CONNECTION (TO PLA MODULE)				
PANEL 2	MODULE 3	EXTERNAL PHONE LINE 13-24 CONNECTION (TO PLA MODULE)				
RACK TEST ISO MODULE			J4 SITE CNTL ACU	J04	19D903880P121	
RACK TEST ISO MODULE			J5 SITE CNTL ACU	J05	19D903880P121	

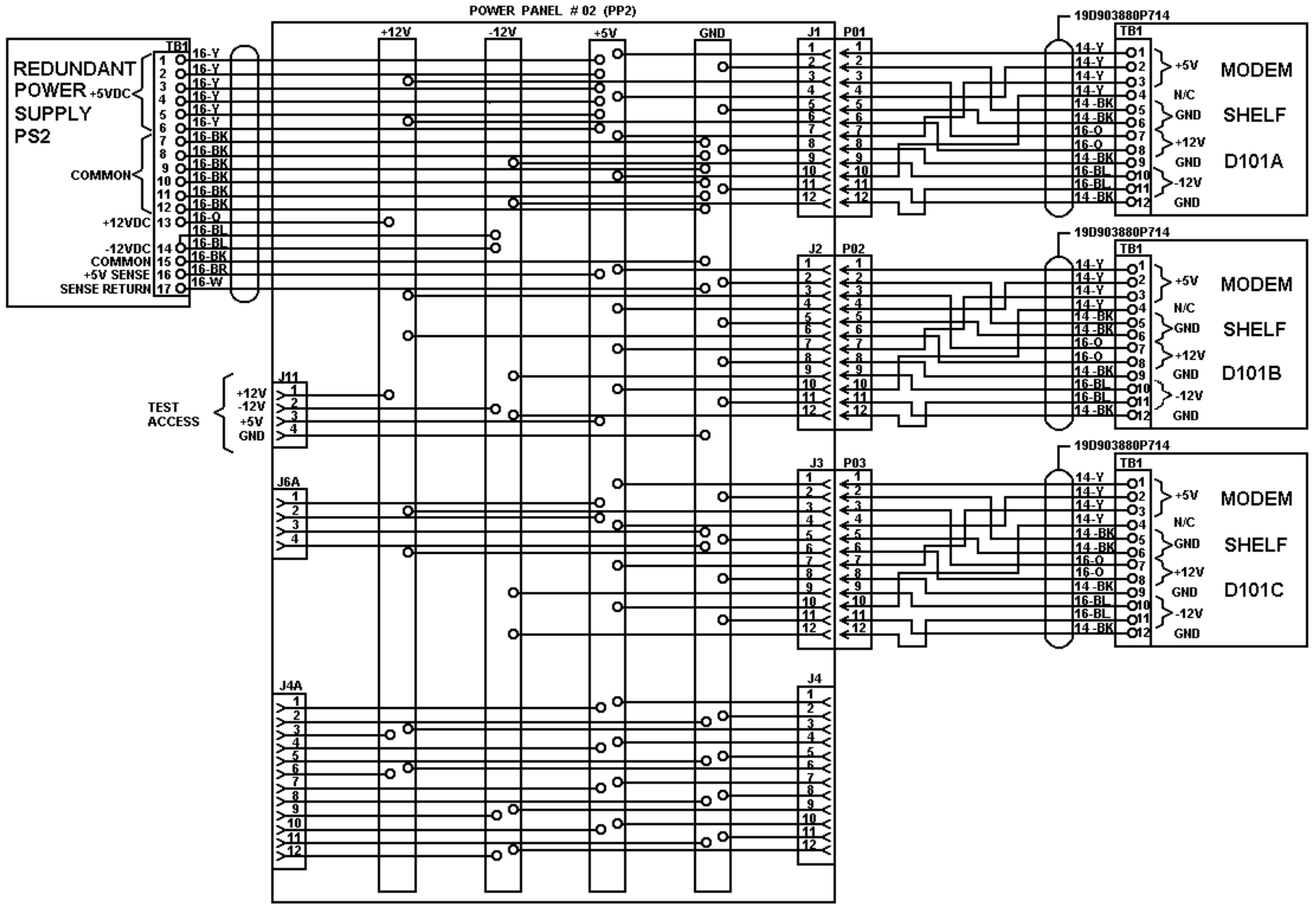
4 SITE 24 CHANNEL CONFIGURATION
Interrack Wiring, RS-232 Version

(344A4889, Sh. 3, Rev. 1)
(344A4889, Sh. 4, Rev. 1)



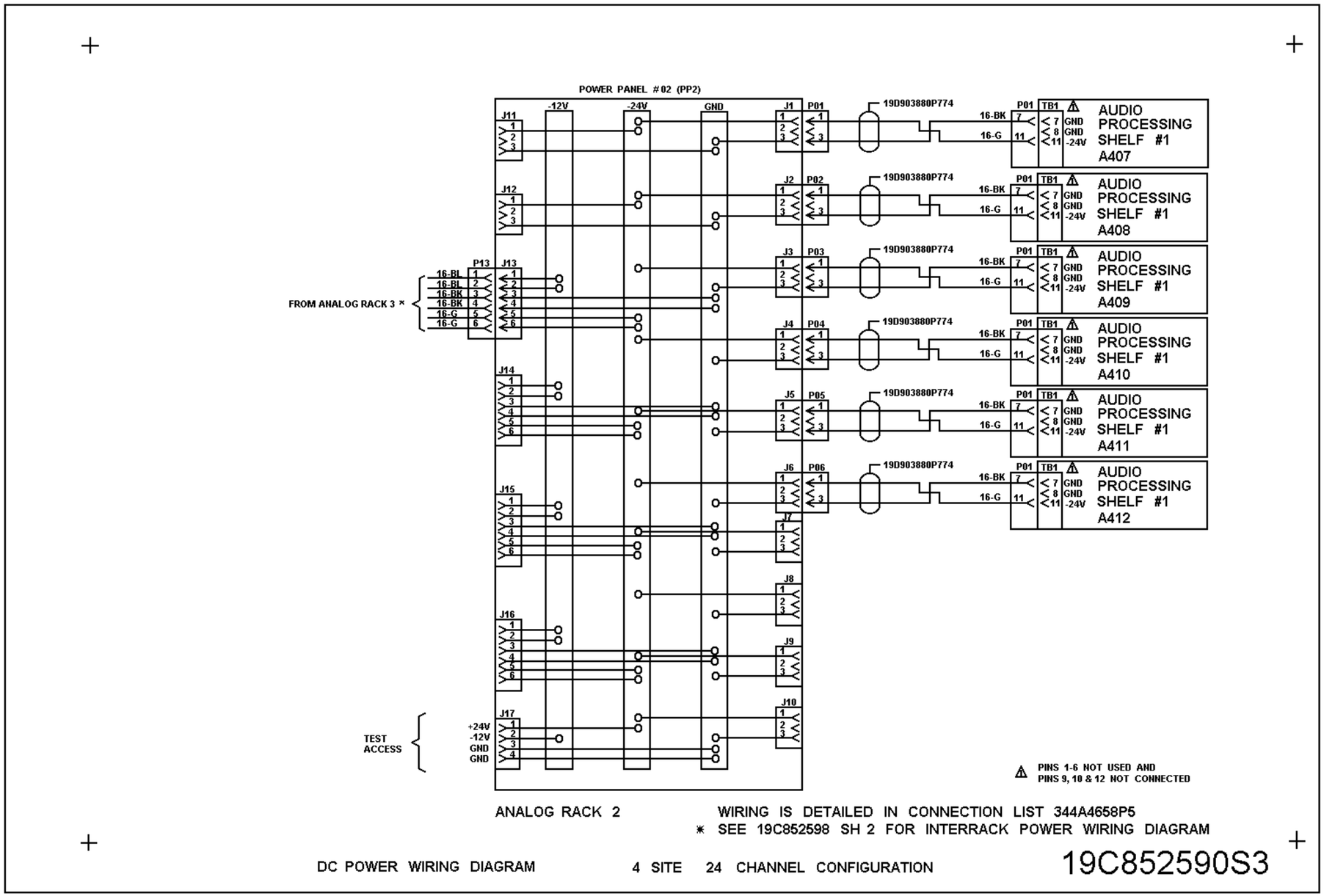
4 SITE 24 CHANNEL CONFIGURATION
Digital Rack 1

(19C852590, Sh. 1, Rev. 1)



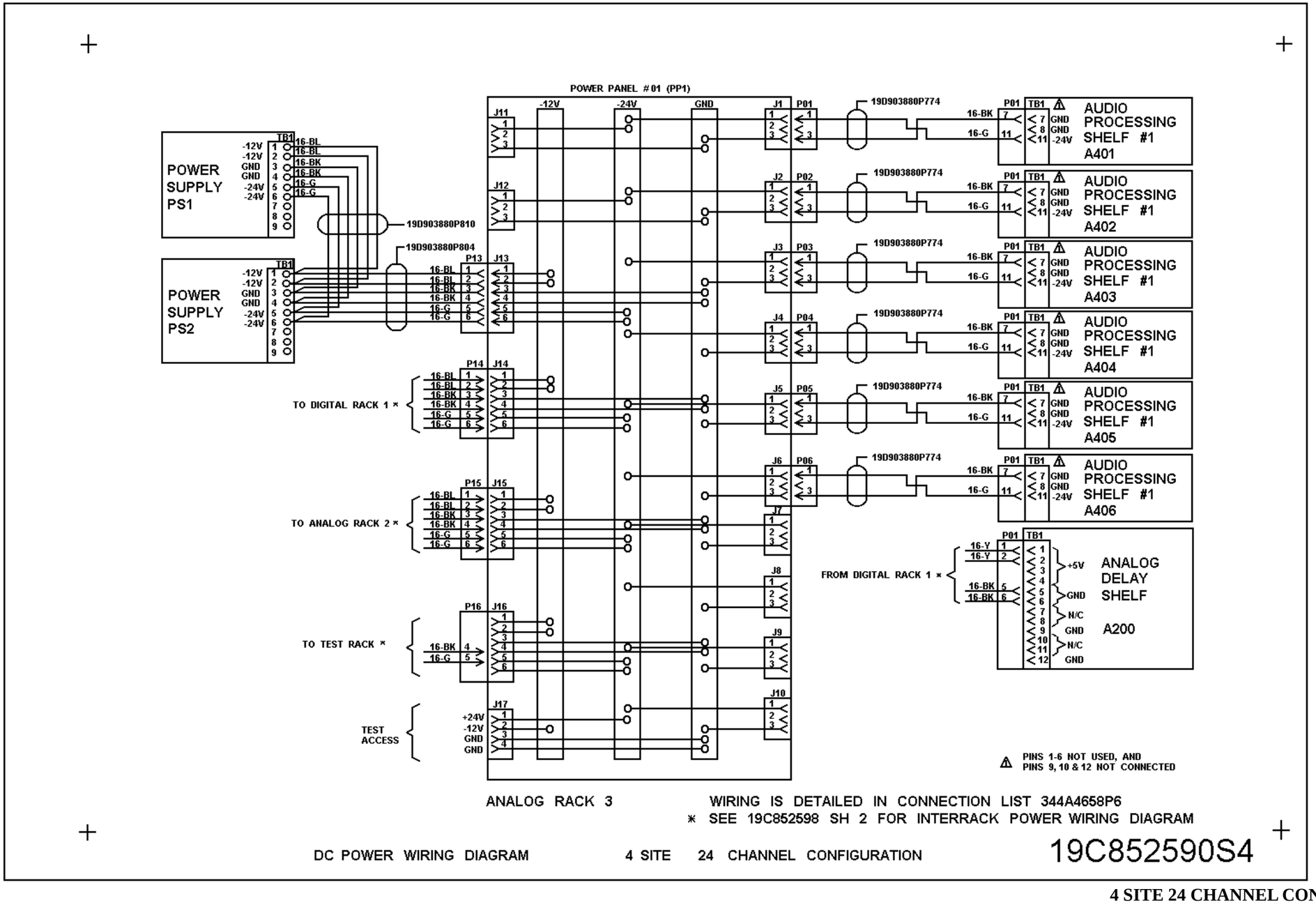
4 SITE 24 CHANNEL CONFIGURATION
Digital Rack 1 With Digital Dispatch Option

(19C852590, Sh. 2, Rev. 1)



4 SITE 24 CHANNEL CONFIGURATION
Analog Rack 2

(19C852590, Sh. 3, Rev. 1)



4 SITE 24 CHANNEL CONFIGURATION
Analog Rack 3

(19C852590, Sh. 4, Rev. 1)

FOR CABINET TO CABINET AND EXTERNAL WIRING SEE 344A4889
PART 1 MODULE IDENTIFICATION

SHELF AND MODULE NUMBERS

DIGITAL DELAY SHELF	19D902531G5
DIGITAL DELAY MODULE	19D902524P1
ANALOG DELAY SHELF	19D902531G6
ANALOG DELAY MODULE	19D902526P1
ANALOG PROCESSING SHELF #1	19D902543G1
COMPRESSOR MODULE	19A149739P1
AUDIO BRIDGE MODULE	19D902458P1
EQUALIZER MODULE	19A149738P1
UNIVERSAL SYNC SHELF	19D902541G1
ALARM MODULE	19D902334P1
DIGITAL SELECTOR (150BAUD/CLK)	19D902519P1
2400 BAUD MODEM MODULE	19D902521P1
UNIVERSAL SYNC MODULE	19D902517P1
ANALOG PROCESSING SHELF #2	19D902544G1
AUDIO BRIDGE MODULE	19D902458P1
MULTITONE I/F MODULE	19D902515P1
MODEM SHELF (DIG DISP OPT. ONLY)	19D902542G1
MODEM I/F MODULE (9600 BAUD)	19D902442P1
MODEM MODULE (9600 BAUD)	19A705178P1

MODULE LOCATION IN RACKS

DIGITAL DELAY SHELF

DIGITAL D300

SLOT 01	DIGITAL DELAY MODULE	SITE #01	CHANNELS	1-10
		SITE #02	CHANNELS	1-10
SLOT 02	DIGITAL DELAY MODULE	SITE #03	CHANNELS	1-10
		SITE #04	CHANNELS	1-10
SLOT 06	DIGITAL DELAY MODULE	SITE #01	CHANNELS	11-20
		SITE #02	CHANNELS	11-20
SLOT 07	DIGITAL DELAY MODULE	SITE #03	CHANNELS	11-20
		SITE #04	CHANNELS	11-20

DIGITAL D301

SLOT 01	DIGITAL DELAY MODULE	SITE #01	CHANNELS	21-24
		SITE #02	CHANNELS	21-24
SLOT 02	DIGITAL DELAY MODULE	SITE #03	CHANNELS	21-24
		SITE #04	CHANNELS	21-24

UNIVERSAL SYN SHELF

SLOT 01	ALARM MODULE		
SLOT 02	DIGITAL SELECTOR MODULE (150 BAUD)		
SLOT 03	2400 BAUD MODEM		
SLOT 05	UNIVERSAL SYNC MODULE	CHANNELS	01-04
SLOT 06	UNIVERSAL SYNC MODULE	CHANNELS	05-08
SLOT 07	UNIVERSAL SYNC MODULE	CHANNELS	09-12
SLOT 08	UNIVERSAL SYNC MODULE	CHANNELS	13-16
SLOT 09	UNIVERSAL SYNC MODULE	CHANNELS	17-20
SLOT 10	UNIVERSAL SYNC MODULE	CHANNELS	21-24
SLOT 12	DIGITAL SELECTOR MODULE (9.6 CLOCK)		

ANALOG PROCESSING SHELF #2

SLOT 01	AUDIO BRIDGE (150 BAUD)	
SLOT 02	MULTITONE I/F MODULE	SITE 01-04

4 SITE 24 CHANNEL CONFIGURATION
Module Identification (Part 1)

(344A4658, Sh. 1, Rev. 4)
(344A4658, Sh. 2, Rev. 4)

MODEM SHELF (DIG DISP OPT.)

SLOT 01	MODEM INTERFACE MODULE	
SLOT 02	MODEM MODULE (9600 BAUD)	CHANNEL 01/11/21
SLOT 03	MODEM INTERFACE MODULE	
SLOT 04	MODEM MODULE (9600 BAUD)	CHANNEL 02/12/22
SLOT 05	MODEM INTERFACE MODULE	
SLOT 06	MODEM MODULE (9600 BAUD)	CHANNEL 03/13/23
SLOT 07	MODEM INTERFACE MODULE	
SLOT 08	MODEM MODULE (9600 BAUD)	CHANNEL 04/14/24
SLOT 09	MODEM INTERFACE MODULE	
SLOT 10	MODEM MODULE (9600 BAUD)	CHANNEL 05/15
SLOT 11	MODEM INTERFACE MODULE	
SLOT 12	MODEM MODULE (9600 BAUD)	CHANNEL 06/16
SLOT 13	MODEM INTERFACE MODULE	
SLOT 14	MODEM MODULE (9600 BAUD)	CHANNEL 07/17
SLOT 15	MODEM INTERFACE MODULE	
SLOT 16	MODEM MODULE (9600 BAUD)	CHANNEL 08/18
SLOT 17	MODEM INTERFACE MODULE	
SLOT 18	MODEM MODULE (9600 BAUD)	CHANNEL 09/19
SLOT 19	MODEM INTERFACE MODULE	
SLOT 20	MODEM MODULE (9600 BAUD)	CHANNEL 10/20

ANALOG DELAY SHELF

ANALOG DELAY

SLOT 01 ANALOG DELAY MODULE SITE #01 CHANNELS 0110,21,22 & 150D
SLOT 02 ANALOG DELAY MODULE SITE #01 CHANNELS 1120,23 & 24
SLOT 03 ANALOG DELAY MODULE SITE #02 CHANNELS 0110,21,22 & 150D
SLOT 04 ANALOG DELAY MODULE SITE #02 CHANNELS 1120,23 & 24
SLOT 05 ANALOG DELAY MODULE SITE #03 CHANNELS 0110,21,22 & 150D
SLOT 06 ANALOG DELAY MODULE SITE #03 CHANNELS 1120,23 & 24
SLOT 07 ANALOG DELAY MODULE SITE #04 CHANNELS 0110,21,22 & 150D
SLOT 08 ANALOG DELAY MODULE SITE #04 CHANNELS 1120,23 & 24

AUDIO PROCESSING SHELF #1

SLOT #1	COMPRESSOR
SLOT #2	AUDIO BRIDGE
SLOT #3	EQUALIZER SITE #1
SLOT #4	EQUALIZER SITE #2
SLOT #5	EQUALIZER SITE #3
SLOT #6	EQUALIZER SITE #4
SLOT #7	COMPRESSOR
SLOT #8	AUDIO BRIDGE
SLOT #9	EQUALIZER SITE #1
SLOT #10	EQUALIZER SITE #2
SLOT #11	EQUALIZER SITE #3
SLOT #12	EQUALIZER SITE #4

PART 2 RACK 1 (19D904160P46) CONNECTION LIST

SITE	CHAN.	FROM				TO				CABLE
A	C01	DIG.	CROSS	CONN.	J01	CONN.	PANEL	#01	P01	19D903985P26
A	C02	DIG.	CROSS	CONN.	J02	CONN.	PANEL	#01	P02	19D903985P26
A	C03	DIG.	CROSS	CONN.	J03	CONN.	PANEL	#01	P03	19D903985P26
A	C04	DIG.	CROSS	CONN.	J04	CONN.	PANEL	#01	P04	19D903985P26
A	C05	DIG.	CROSS	CONN.	J05	CONN.	PANEL	#01	P05	19D903985P26
A	C06	DIG.	CROSS	CONN.	J06	CONN.	PANEL	#01	P06	19D903985P26
A	C07	DIG.	CROSS	CONN.	J07	CONN.	PANEL	#01	P07	19D903985P26
A	C08	DIG.	CROSS	CONN.	J08	CONN.	PANEL	#01	P08	19D903985P26
A	C09	DIG.	CROSS	CONN.	J09	CONN.	PANEL	#01	P09	19D903985P26
A	C10	DIG.	CROSS	CONN.	J10	CONN.	PANEL	#01	P10	19D903985P26
A	C11	DIG.	CROSS	CONN.	J11	CONN.	PANEL	#01	P11	19D903985P26
A	C12	DIG.	CROSS	CONN.	J12	CONN.	PANEL	#01	P12	19D903985P26
A	C13	DIG.	CROSS	CONN.	J13	CONN.	PANEL	#01	P13	19D903985P26
A	C14	DIG.	CROSS	CONN.	J14	CONN.	PANEL	#01	P14	19D903985P26
A	C15	DIG.	CROSS	CONN.	J15	CONN.	PANEL	#01	P15	19D903985P26
A	C16	DIG.	CROSS	CONN.	J16	CONN.	PANEL	#01	P16	19D903985P26
A	C17	DIG.	CROSS	CONN.	J17	CONN.	PANEL	#01	P17	19D903985P26
A	C18	DIG.	CROSS	CONN.	J18	CONN.	PANEL	#01	P18	19D903985P26
A	C19	DIG.	CROSS	CONN.	J19	CONN.	PANEL	#01	P19	19D903985P26
A	C20	DIG.	CROSS	CONN.	J20	CONN.	PANEL	#01	P20	19D903985P26
A	C21	DIG.	CROSS	CONN.	J21	CONN.	PANEL	#02	P01	19D903985P26
A	C22	DIG.	CROSS	CONN.	J22	CONN.	PANEL	#02	P02	19D903985P26
A	C23	DIG.	CROSS	CONN.	J23	CONN.	PANEL	#02	P03	19D903985P26
A	C24	DIG.	CROSS	CONN.	J24	CONN.	PANEL	#02	P04	19D903985P26
		DIG.	CROSS	CONN.	J25		NC			-------
A	A	DIG.	CROSS	CONN.	J26	JACKFIELD D600			P01	19D903985P24
S01	C01-10	DIG.	CROSS	CONN.	J27	DIG. DELAY D300			P01	19D903985P16
S02	C01-10	DIG.	CROSS	CONN.	J28	DIG. DELAY D300			P02	19D903985P16
S03	C01-10	DIG.	CROSS	CONN.	J29	DIG. DELAY D300			P03	19D903985P16
S04	C01-10	DIG.	CROSS	CONN.	J30	DIG. DELAY D300			P04	19D903985P16
S01	C11-20	DIG.	CROSS	CONN.	J37	DIG. DELAY D300			P11	19D903985P16
S02	C11-20	DIG.	CROSS	CONN.	J38	DIG. DELAY D300			P12	19D903985P16
S03	C11-20	DIG.	CROSS	CONN.	J39	DIG. DELAY D300			P13	19D903985P16
S04	C11-20	DIG.	CROSS	CONN.	J40	DIG. DELAY D300			P14	19D903985P16
S01	C21-24	DIG.	CROSS	CONN.	J47	DIG. DELAY D301			P01	19D903985P18
S02	C21-24	DIG.	CROSS	CONN.	J48	DIG. DELAY D301			P02	19D903985P18
S03	C21-24	DIG.	CROSS	CONN.	J49	DIG. DELAY D301			P03	19D903985P18
S04	C21-24	DIG.	CROSS	CONN.	J50	DIG. DELAY D301			P04	19D903985P18
S01	A	DIG.	CROSS	CONN.	J57	JACKFIELD D602			P01	19D903985P24
S02	A	DIG.	CROSS	CONN.	J58	JACKFIELD D603			P01	19D903985P24
S03	A	DIG.	CROSS	CONN.	J59	JACKFIELD D604			P01	19D903985P24
S04	A	DIG.	CROSS	CONN.	J60	JACKFIELD D605			P01	19D903985P24

4 SITE 24 CHANNEL CONFIGURATION
Module Identification (Part 1)
Rack 1 (19D904160P46) Connection List (Part 2)

(344A4658, Sh. 3, Rev. 4)
(344A4658, Sh. 4, Rev. 4)

SITE	CHAN.	FROM				TO		CABLE
		DIG.	CROSS	CONN.	J67	UNIV. SYNC D800	P01	19D903985P16
		DIG.	CROSS	CONN.	J68	UNIV. SYNC D800	P02	19D903985P16
A		DIG.	CROSS	CONN.	J69	UNIV. SYNC D800	P03	19D903985P16
A		DIG.	CROSS	CONN.	J70	UNIV. SYNC D800	P04	19D903985P16
A	C01-04	DIG.	CROSS	CONN.	J71	UNIV. SYNC D800	P05	19D903985P16
A	C05-08	DIG.	CROSS	CONN.	J72	UNIV. SYNC D800	P06	19D903985P16
A	C09-12	DIG.	CROSS	CONN.	J73	UNIV. SYNC D800	P07	19D903985P16
A	C13-16	DIG.	CROSS	CONN.	J74	UNIV. SYNC D800	P08	19D903985P16
A	C17-20	DIG.	CROSS	CONN.	J75	UNIV. SYNC D800	P09	19D903985P16
A	C21-24	DIG.	CROSS	CONN.	J76	UNIV. SYNC D800	P10	19D903985P16
		DIG.	CROSS	CONN.	J77	N/C		
		DIG.	CROSS	CONN.	J78	TIMING MOD.B403	J02	19D903985P16
A	A	DIG.	CROSS	CONN.	J79	AN PROC D700	J01	19D903985P36
A	A	DIG.	CROSS	CONN.	J80	CONN. PANEL #02	P05	19D903985P26
A	A	DIG.	CROSS	CONN.	J81	CONN. PANEL #02	P06	19D903985P26
A		DIG.	CROSS	CONN.	J82	AN. PROC. D700	J03	19D903985P36
A		DIG.	CROSS	CONN.	J83	CONN. PANEL #02	P07	19D903985P26
		DIG.	CROSS	CONN.	J84	CONN. PANEL #02	P08	19D903985P26
A	A	DIG.	CROSS	CONN.	J85	JACKFIELD D601	J01	19D903985P34
A	A	DIG.	CROSS	CONN.	J86	JACKFIELD D601	P01	19D903985P24
S01	A	DIG.	CROSS	CONN.	J87	JACKFIELD D602	P02	19D903985P24
S02	A	DIG.	CROSS	CONN.	J88	JACKFIELD D603	P02	19D903985P24
S03	A	DIG.	CROSS	CONN.	J89	JACKFIELD D604	P02	19D903985P24
S04	A	DIG.	CROSS	CONN.	J90	JACKFIELD D605	P02	19D903985P24
		DIG.	CROSS	CONN.	J97	N/C		
A	A	DIG.	CROSS	CONN.	J98	JACKFIELD D601	J02	19D903985P34
A	A	DIG.	CROSS	CONN.	J99	JACKFIELD D601	P02	19D903985P24
					J100	NC		
		UNIV. SYNC D800			P12	TIMING MOD.B403	J01	19D903985P16
A		AN. PROC. D700			J02	JACKFIELD D600	P02	19D903985P56
PP1		POWER PANEL #1			P05	DIG. DELAY D300	TB1	19D903880P721
PP1		POWER PANEL #1			P06A	DIG. DELAY D301	TB1	19D903880P721
PP1		POWER PANEL #1			P07	UNIV. SYNC D800	TB1	19D903880P784
PP1		POWER PANEL #1			P08	AN. PROC. D700	P16/17	19D903980P733
PS1		TB101	YELLOW		+5		BUS+5	
PS1		TB102	YELLOW		+5			
PS1		TB103	YELLOW		+5			
PS1		TB104	YELLOW		+5		BUS+5	
PS1		TB105	YELLOW		+5			
PS1		TB106	YELLOW		+5			
PS1		TB107	BLACK		GND		BUSGD	
PS1		TB108	BLACK		GND			
PS1		TB109	BLACK		GND			
PS1		TB110	BLACK		GND		BUSGD	
PS1		TB111	BLACK		GND			
PS1		TB112	BLACK		GND			
PS1		TB113	ORANGE		+12		BUS+12	
PS1		TB114	BLUE		12		BUS12	
PS1		TB114	BLUE		12		BUS12	
PS1		TB115	BLACK		GND		BUSGD	
PS1		TB116	BROWN		+5 SENS		BUS+5	
PS1		TB117	WHITE		RTN SENS		BUSGD	

DIGITAL DISPATCH OPTION

A	A	MODEM SH. D101A	J04	JACKFIELD D600	J01	19D903985P34	
A	C11-24	MODEM SH. D101A	J04A	MODEM SH. D101B	J04	19D903985P12	
A	C01-10	MODEM SH. D101A	J06	STN.VOTER MOD.	J01	19D903985P34	
A	C11-20	MODEM SH. D101B	J06	STN.VOTER MOD.	J02	19D903985P34	
A	C11-24	MODEM SH. D101B	J04A	MODEM SH. D101C	J04	19D903985P12	
A	C11-24	MODEM SH. D101C	J06	STN.VOTER MOD.	J03	19D903985P34	
PP2		POWER PANEL #02	P01	MODEM SH. D101A	TB1	19D903880P714	
PP2		POWER PANEL #02	P02	MODEM SH. D101B	TB1	19D903880P714	
PP2		POWER PANEL #02	P03	MODEM SH. D101C	TB1	19D903880P714	
PS2		TB101	YELLOW	+5	BUS+5		
PS2		TB102	YELLOW	+5			
PS2		TB103	YELLOW	+5			
PS2		TB104	YELLOW	+5	BUS+5		
PS2		TB105	YELLOW	+5			
PS2		TB106	YELLOW	+5			
PS2		TB107	BLACK	GND	BUSGD		
PS2		TB108	BLACK	GND			
PS2		TB109	BLACK	GND			
PS2		TB110	BLACK	GND	BUSGD		
PS2		TB111	BLACK	GND			
PS2		TB112	BLACK	GND			
PS2		TB113	ORANGE	+12	BUS+12		
PS2		TB114	BLUE	12	BUS12		
PS2		TB114	BLUE	12	BUS12		
PS2		TB115	BLACK	GND	BUSGD		
PS2		TB116	BROWN	+5 SENS	BUS+5		
PS2		TB117	WHITE	RTN SENS	BUSGD		

4 SITE 24 CHANNEL CONFIGURATION
Rack 1 (19D904160P46) Connection List (Part 2)
Rack 2 (19D904160P47) Connection List (Part 5)

(344A4658, Sh. 5, Rev. 4)
(344A4658, Sh. 6, Rev. 4)
(344A4658, Sh. 7, Rev. 4)

PART 5 RACK #2 (19D904160P47) CONNECTION LIST

C13-14	CONNECTOR PANEL 01	P06	ANALOG PROC SHF A407	J03	19D903985P48
C15-16	CONNECTOR PANEL 01	P07	ANALOG PROC SHF A408	J03	19D903985P48
C17-18	CONNECTOR PANEL 01	P08	ANALOG PROC SHF A409	J03	19D903985P48
C19-20	CONNECTOR PANEL 01	P09	ANALOG PROC SHF A410	J03	19D903985P46
C21-22	CONNECTOR PANEL 01	P10	ANALOG PROC SHF A411	J03	19D903985P46
C23-24	CONNECTOR PANEL 01	P11	ANALOG PROC SHF A412	J03	19D903985P46
	CONNECTOR PANEL 01	P12	ANALOG PROC SHF A407	J01	19D903985P28
C15-16	ANALOG PROC SHF A407	J02	ANALOG PROC SHF A408	J01	19D903985P12
C17-18	ANALOG PROC SHF A408	J02	ANALOG PROC SHF A409	J01	19D903985P12
C19-20	ANALOG PROC SHF A409	J02	ANALOG PROC SHF A410	J01	19D903985P12
C21-22	ANALOG PROC SHF A410	J02	ANALOG PROC SHF A411	J01	19D903985P12
C23-24	ANALOG PROC SHF A411	J02	ANALOG PROC SHF A412	J01	19D903985P12
PP2	POWER PANEL #02	P01	ANALOG PROC SHF A407	TB1	19D903880P774
PP2	POWER PANEL #02	P02	ANALOG PROC SHF A408	TB1	19D903880P774
PP2	POWER PANEL #02	P03	ANALOG PROC SHF A409	TB1	19D903880P774
PP2	POWER PANEL #02	P04	ANALOG PROC SHF A410	TB1	19D903880P774
PP2	POWER PANEL #02	P05	ANALOG PROC SHF A411	TB1	19D903880P774
PP2	POWER PANEL #02	P06	ANALOG PROC SHF A412	TB1	19D903880P774

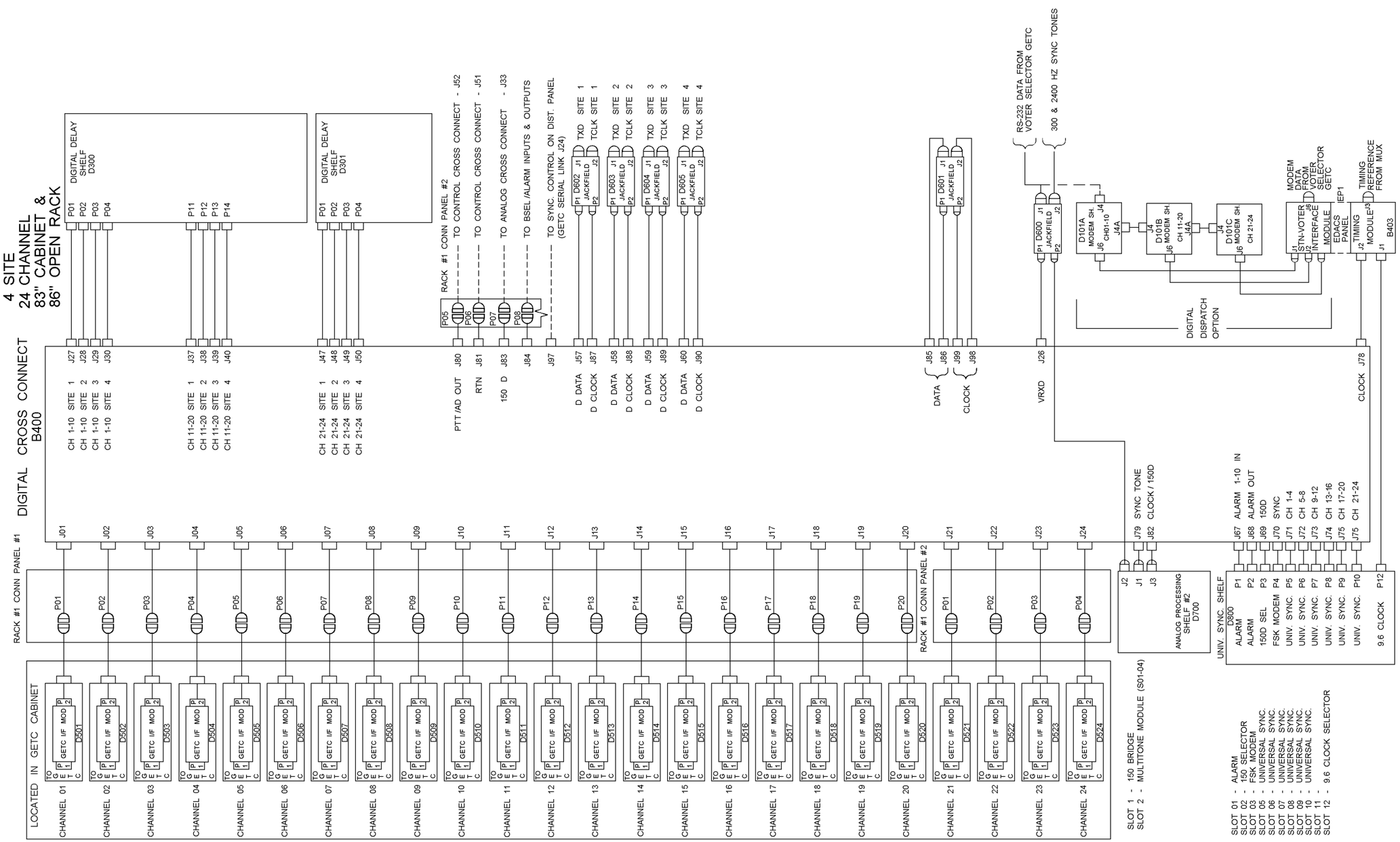
PART 6 RACK #3 CONNECTION LIST

* S13 CH 2124 & 150D **S4 CH 2124 & 150D

A	JACKFIELD A600	P01	ANALOG PROC SHF A401	J01	19D903985P22
C01-02	ANALOG CROSS CONNECT	J01	ANALOG PROC SHF A401	J03	19D903985P64
C03-04	ANALOG CROSS CONNECT	J02	ANALOG PROC SHF A402	J03	19D903985P64
C05-06	ANALOG CROSS CONNECT	J03	ANALOG PROC SHF A403	J03	19D903985P62
C07-08	ANALOG CROSS CONNECT	J04	ANALOG PROC SHF A404	J03	19D903985P62
C09-10	ANALOG CROSS CONNECT	J05	ANALOG PROC SHF A405	J03	19D903985P62
C09-10	ANALOG CROSS CONNECT	J06	ANALOG PROC SHF A406	J03	19D903985P62
S1 C1-20	ANALOG CROSS CONNECT	J26	ANALOG DELAY SHF A200	P01	19D903985P18
S2 C1-20	ANALOG CROSS CONNECT	J27	ANALOG DELAY SHF A200	P02	19D903985P18
S3 C1-20	ANALOG CROSS CONNECT	J28	ANALOG DELAY SHF A200	P03	19D903985P18
S4 C1-20	ANALOG CROSS CONNECT	J29	ANALOG DELAY SHF A200	P04	19D903985P18
S*	ANALOG CROSS CONNECT	J31	ANALOG DELAY SHF A200	P11	19D903985P18
S**	ANALOG CROSS CONNECT	J32	ANALOG DELAY SHF A200	P12	19D903985P18
S1 C1-24	ANALOG DELAY SHF A200	P06	JACKFIELD A600	P02	19D903985P24
S2 C1-24	ANALOG DELAY SHF A200	P07	JACKFIELD A601	P01	19D903985P24
S3 C1-24	ANALOG DELAY SHF A200	P08	JACKFIELD A601	P02	19D903985P24
S4 C1-24	ANALOG DELAY SHF A200	P09	JACKFIELD A602	P01	19D903985P24
150 DATA	ANALOG DELAY SHF A200	P13	JACKFIELD A602	P02	19D903985P24
C 3-4	ANALOG PROC SHF A401	J02	ANALOG PROC SHF A402	J01	19D903985P12
C 5-6	ANALOG PROC SHF A402	J02	ANALOG PROC SHF A403	J01	19D903985P12
C 7-8	ANALOG PROC SHF A403	J02	ANALOG PROC SHF A404	J01	19D903985P12
C 9-10	ANALOG PROC SHF A404	J02	ANALOG PROC SHF A405	J01	19D903985P12
C 9-10	ANALOG PROC SHF A405	J02	ANALOG PROC SHF A406	J01	19D903985P12
A407	ANALOG CROSS CONNECT	J07	CONNECTOR PANEL 01	P02	19D903985P44
A408	ANALOG CROSS CONNECT	J08	CONNECTOR PANEL 01	P03	19D903985P44
A409	ANALOG CROSS CONNECT	J09	CONNECTOR PANEL 01	P04	19D903985P44
A410	ANALOG CROSS CONNECT	J10	CONNECTOR PANEL 01	P05	19D903985P44
A411	ANALOG CROSS CONNECT	J11	CONNECTOR PANEL 01	P06	19D903985P44
A412	ANALOG CROSS CONNECT	J12	CONNECTOR PANEL 01	P07	19D903985P44
ACC	ANALOG PROC SHF A406	J02	CONNECTOR PANEL 01	P08	19D903985P22
ACC	ANALOG CROSS CONNECT	J33	CONNECTOR PANEL 01	P09	19D903985P24
ACC	ANALOG CROSS CONNECT	J34	CONNECTOR PANEL 01	P10	19D903985P24
PP1	POWER PANEL #01	P01	ANALOG PROC SHF A401	TB1	19D903880P774
PP1	POWER PANEL #01	P02	ANALOG PROC SHF A402	TB1	19D903880P774
PP1	POWER PANEL #01	P03	ANALOG PROC SHF A403	TB1	19D903880P774
PP1	POWER PANEL #01	P04	ANALOG PROC SHF A404	TB1	19D903880P774
PP1	POWER PANEL #01	P05	ANALOG PROC SHF A405	TB1	19D903880P774
PP1	POWER PANEL #01	P06	ANALOG PROC SHF A406	TB1	19D903880P774
PS1	POWER SUPPLY PS1	TB11/6	POWER SUPPLY PS2	TB11/6	19D903880P810
PS2	POWER PANEL #01	P13			19D903880P804
	P13-01 BLUE -12		POWER SUPPLY PS2	TB1 #1	
	P13-02 BLUE -12		POWER SUPPLY PS2	TB1 #2	
	P13-03 BLACK GND		POWER SUPPLY PS2	TB1 #3	
	P13-04 BLACK GND		POWER SUPPLY PS2	TB1 #4	
	P13-05 GREEN -24		POWER SUPPLY PS2	TB1 #5	
	P13-06 GREEN -24		POWER SUPPLY PS2	TB1 #6	

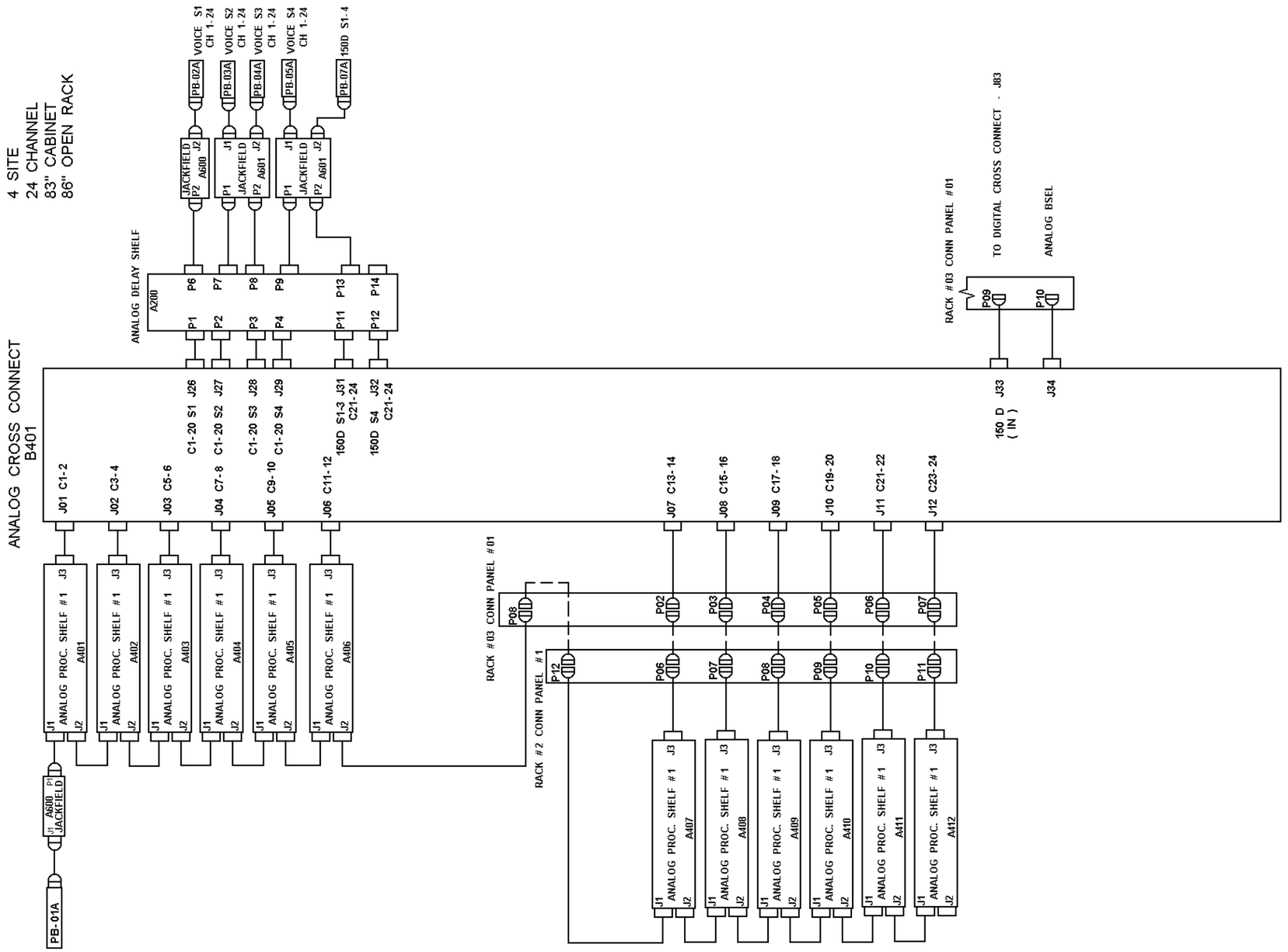
4 SITE 24 CHANNEL CONFIGURATION
Rack 3 Connection List (Part 6)

(344A4658, Sh. 12, Rev. 4)
(344A4658, Sh. 13, Rev. 4)



4 SITE 24 CHANNEL CONFIGURATION
Digital Cross Connect Wiring

(188D5886, Sh. 6, Rev. 1)



4 SITE 24 CHANNEL CONFIGURATION
Analog Cross Connect Wiring

(19D904511, Sh. 1, Rev. 1)