

1X21 (Right End Station)

Rack Mount Components w/Locations

Loc	Description	Vendor	Model	Designator
01	Fiber Optic Patch Panel			FPP-1
03	DAQ Cable Pull Through Keep Clear			
04	VME Crate	Knurr		VME-1
12	DAQ Cable Pull Through Keep Clear			
13	DAQS Interconnect Chassis (LEMO)	LIGO		DAQIC-1
14	DAQS Interconnect Chassis (BNC)	LIGO		DAQIC-2
15	GDS Interconnect Chassis (BNC)	LIGO		GDSIC-1
17	Endevco Accelerometer Signal Cond.	LIGO		ENDEV-1
21	VME Crate	Knurr		VME-2
30	LOS Controller Chassis	LIGO		LOSC-1
33	+15VDC Power Supply	Sorenson		PS-1
34	-15VDC Power Supply	Sorenson		PS-2
35	+24VDC Power Supply	Sorenson		PS-3
36	-24VDC Power Supply	Sorenson		PS-4
37	+225VDC Power Supply	Sorenson		PS-5
38	-225VDC Power Supply	Sorenson		PS-6
39	Uninterrupted Power Supply	Best Power		UPS-1

Notes:

- 1) This drawing is **PRELIMINARY**. It is only to be used for purposes of rack layout and initial installation of the CDS networking and DAQ.
- 2) Suspension controls are detailed in a separate drawing (See TBD drawing)
- 3) Endevco signal conditioning unit may be moved to back of rack if necessary.
- 4) FORE ES3810 Unit is located on back of rack in the top slots.

VME-1 Modules / Slot Assignments

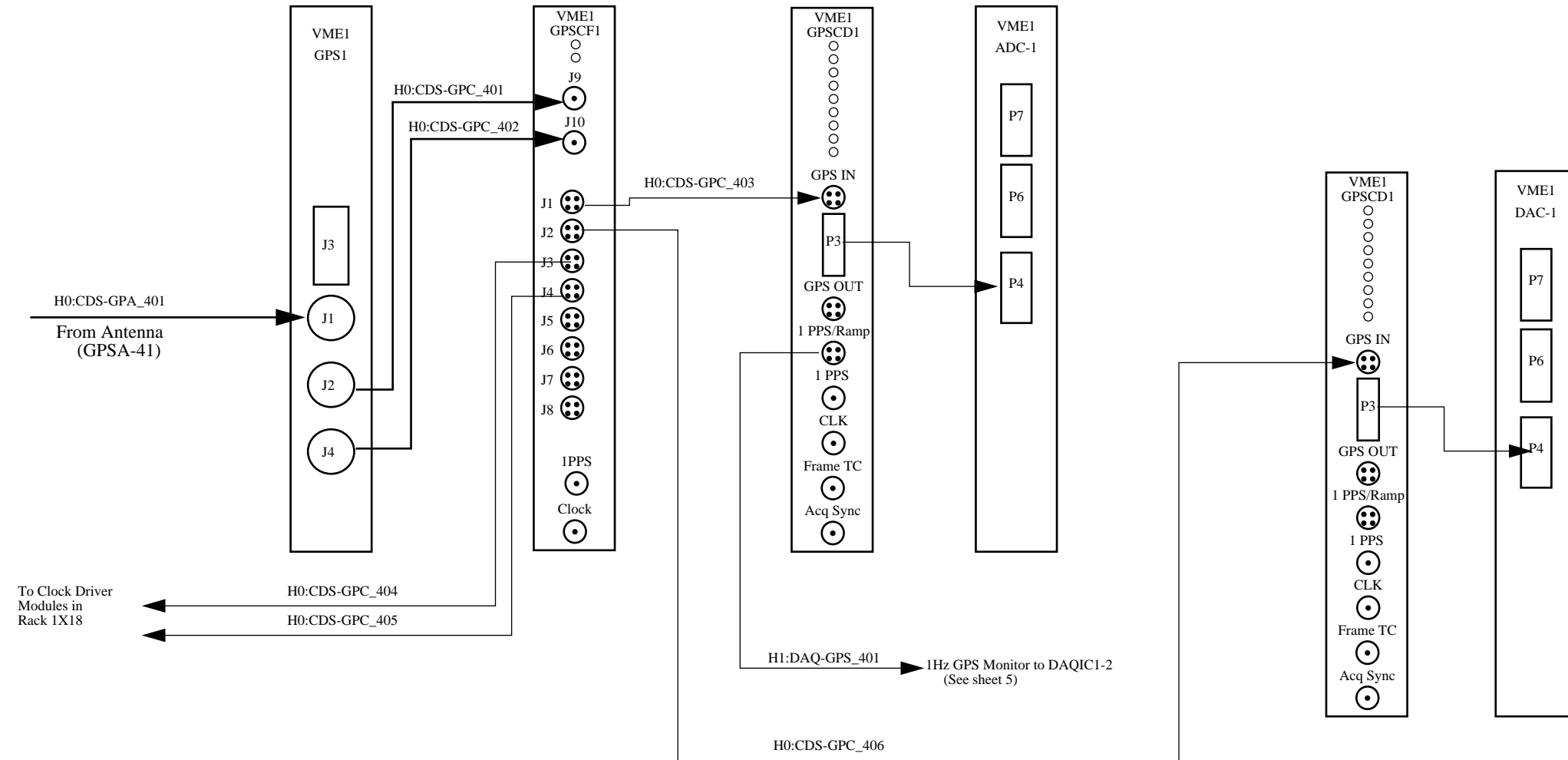
Slot	Description	Vendor	Model	Designator
1	MIPS Processor	Heurikon	4700	CPU-1
2	Reflected Memory	VMIC	5588DMA	RM-1
3	Single/Multi Mode Cnvrtter	VMIC	5592	SMMC-1
4	GPS Clock Master	Brandywine		GPS-1
5	Timing Clock Fanout	LIGO		GPSCF-1
6	Timing Clock Driver	LIGO		GPSCD-1
7	ADC	ICS	110B1	ADC1
8	ADC	ICS	110B1	ADC2
9	Timing Clock Driver	LIGO		GPSCD-2
10	DAC	ICS	115	DAC1
11	68040 Processor	Motorola	MVME262	CPU-2
12				
13				
14				
15				

VME-2 Modules / Slot Assignments

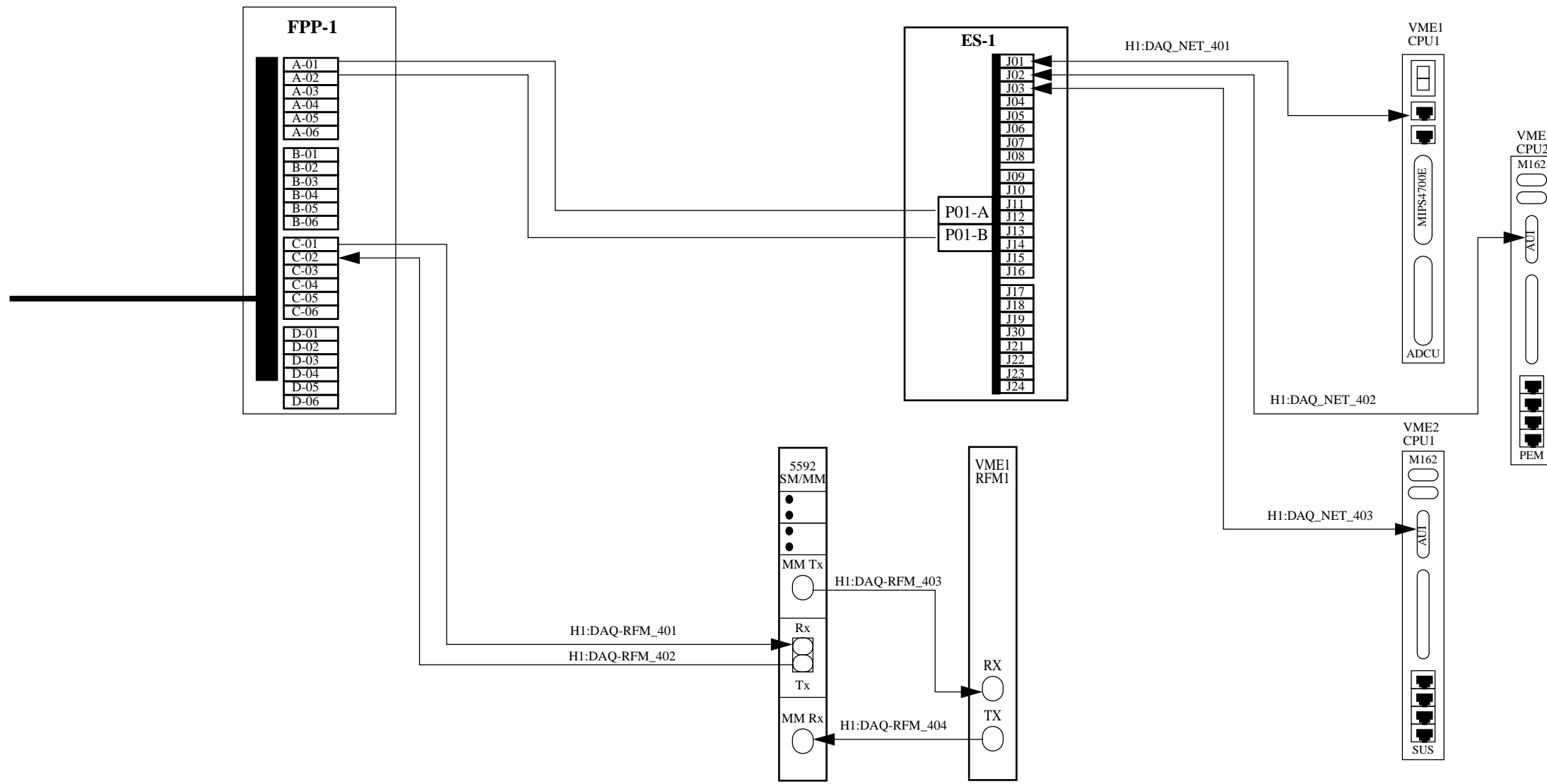
Slot	Description	Vendor	Model	Designator
1	68040 Processor	Motorola	MVME262	CPU-1
2	ADC	VMIC	3113A	ADC1
3	DAC	VMIC	4116	DAC1
4	Relay Output Module	Xycom	220	RO1
5				

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR MAX ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ± FINISHED SURFACE RMS BREAK CORNERS IN REMOVE ALL BURRS		File: Hanford Observatory CDS hanford1/opt/CDS/c/docs/daq/drawings/working/Rack_1X21.fm5		CURRENT REVISION APPROVAL		LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
				DRAWN R. Bork	GROUP	SIGNATURE	DATE 4/21/99
				CHECKED D. Barker	LHO		03 Oct 99
DWG. NO.	DESCRIPTION	DWG. NO.	DESCRIPTION	REV	DESCRIPTION	SHEETS EFFECTED	DATE
6	REFERENCE DRAWINGS	5			ISSUE DESCRIPTION		
						SCALE	SCALE
						SIZE DWG. NO. B D990180-00-C	REV. 1
						CAD FILE	VER. 01
						SHEET 1 of 6	STD

Clock Distribution



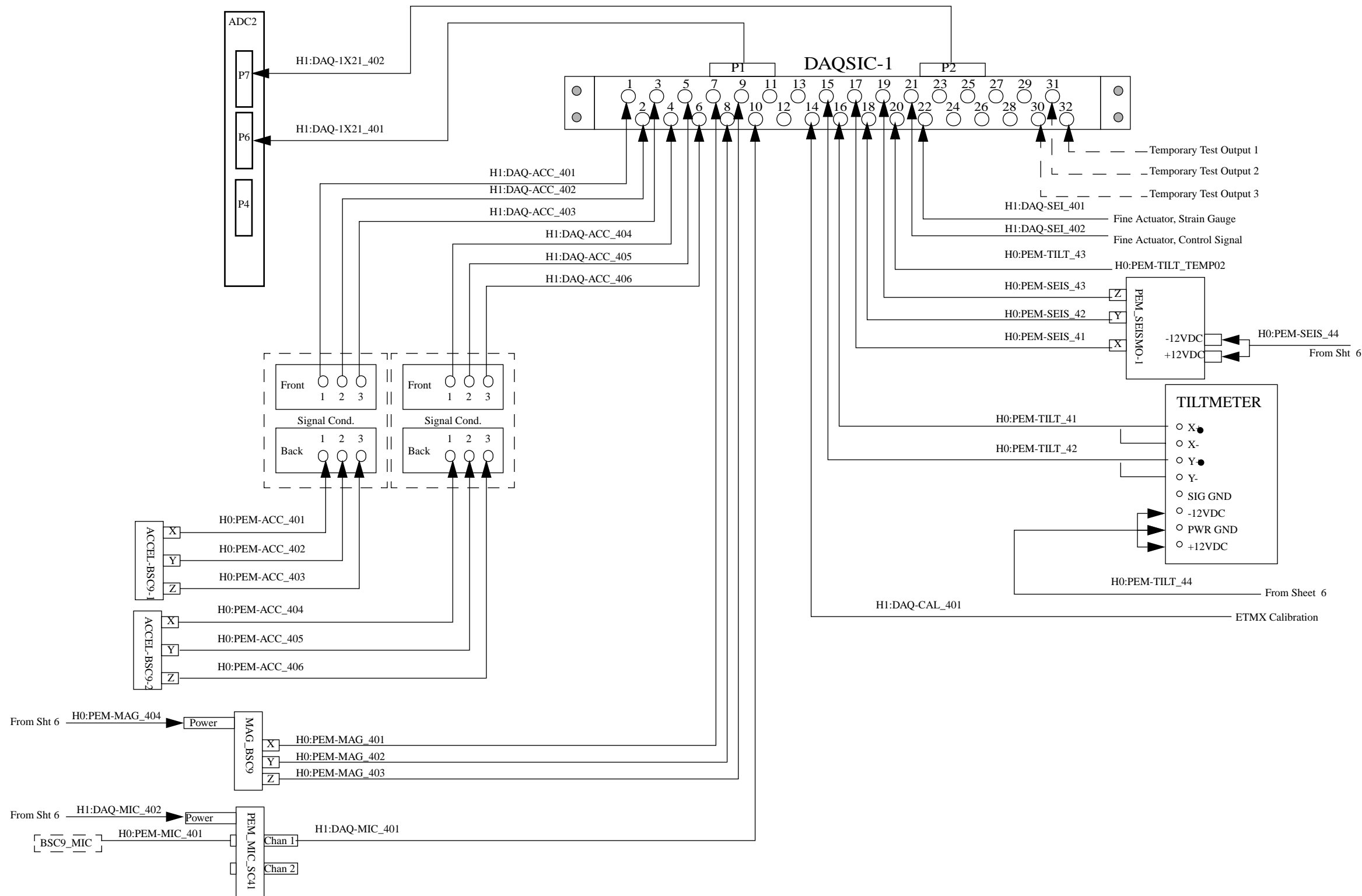
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR MATCH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ± FINISHED SURFACE RMS BREAK CORNERS IN OUT, REMOVE ALL BURRS		CURRENT REVISION APPROVAL				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY			
				DO NOT SCALE THIS DRAWING		DRAWN: R. Bork		GROUP:		SIGNATURE:		DATE: 4/26/99	
				USED ON:		CHECKED:							
REFERENCE DRAWINGS				NEXT ASS'Y:		REV:		DESCRIPTION:		SHEETS EFFECTED:		DATE:	
6				5		4		3		2		1	
DWG. NO.				DESCRIPTION		DWG. NO.		DESCRIPTION		SCALE		SIZE: B	
										D990180-00-C		REV.:	
										SHEET 2 of 6		VER.:	
										SCALE		STD:	



				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR RACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ± FINISHED SURFACE RMS BREAK CORNERS IN OUT, REMOVE ALL BURRS				CURRENT REVISION APPROVAL		LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
				DO NOT SCALE THIS DRAWING				DRWN R. Bork	GROUP	SIGNATURE	DATE 4/21/99
				USED ON:		REV		CHECKED			
DWG. NO.	DESCRIPTION	DWG. NO.	DESCRIPTION	USED ON:	DESCRIPTION	SHEETS EFFECTED	DATE				
REFERENCE DRAWINGS				NEXT ASS'Y:		ISSUE DESCRIPTION		DCC		SCALE	
6		5		4		3		2		1	
										SCALE	SIZE DWG. NO. B D990180-00-C
										CAD FILE	SCALE SHEET 3 of 6 STD VER. 01

ADC-2

Chan	Name	Rate
00	H0:PEM-BSC9_ACC1X	2048
01	H0:PEM-BSC9_ACC1Y	2048
02	H0:PEM-BSC9_ACC1Z	2048
03	H0:PEM-BSC9_ACC2X	2048
04	H0:PEM-BSC9_ACC2Y	2048
05	H0:PEM-BSC9_ACC2Z	2048
06	H0:PEM-BSC9_MAGX	2048
07	H0:PEM-BSC9_MAGY	2048
08	H0:PEM-BSC9_MAGZ	2048
09	H0:PEM-BSC9_MIC	2048
10		
11		
12		
13	H1:LSC-ETMX_CAL	16384
14	H0:PEM-EX_TILTY	256
15	H0:PEM-EX_TILTX	256
16	H0:PEM-EX_SEISX	256
17	H0:PEM-EX_SEISY	256
18	H0:PEM-EX_SEISZ	256
19	H0:PEM-EX_TEMP2	16
20	H1:SEI-BSC9_FINE1	256
21	H1:SEI-BSC9_FINE2	256
22		
23		
24		
25		
26		
27		
28		
29	H0:GDS-EX_TO1	16384
30	H0:GDS-EX_TO2	2048
31	H0:GDS-EX_TO3	2048
	TOTAL (BTYES/SEC)	126496



UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL ±
 ANGULAR ± BEND ±
 TWO PLACE DECIMAL ±
 THREE PLACE DECIMAL ±
 FINISHED SURFACE RMS
 BREAK CORNERS IN
 REMOVE ALL BURRS

DO NOT SCALE THIS DRAWING

USED ON:

NEXT ASS'Y:

REV	DESCRIPTION	SHEETS EFFECTED	DATE

CURRENT REVISION APPROVAL

DRAWN: **R. Bork** GROUP: SIGNATURE: DATE: **9/24/99**

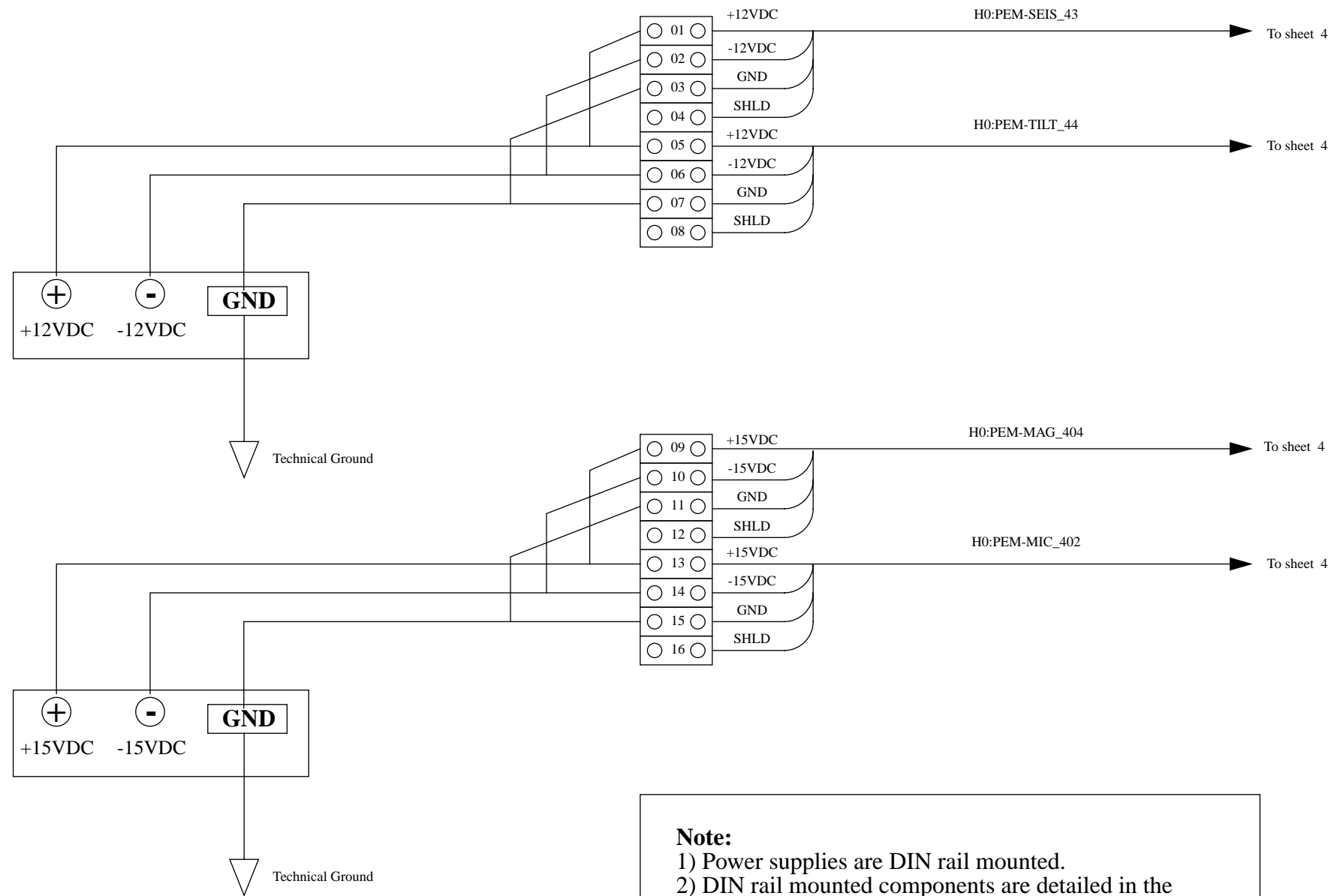
CHECKED:

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

**Hanford CDS Rack Layout - 1X21
 DAQIC-1 Connections**

SCALE: SIZE: DWG. NO: **D990180-00-C** REV.:

CAD FILE: SCALE: SHEET: **4 of 6** STD: VER.:



Note:
 1) Power supplies are DIN rail mounted.
 2) DIN rail mounted components are detailed in the rack 1X21 suspension control drawing (D-99xxxxx).

				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ± FINISHED SURFACE RMS BREAK CORNERS IN OUT, REMOVE ALL BURRS				CURRENT REVISION APPROVAL				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY			
				DO NOT SCALE THIS DRAWING				DRAWN: R. Bork				GROUP: SIGNATURE: DATE: 9/24/99			
				USED ON:				CHECKED:				Hanford CDS Rack Layout - 1X21 DC Power Distribution			
DWG. NO.				DESCRIPTION				REV				SCALE			
REFERENCE DRAWINGS				NEXT ASS'Y:				ISSUE DESCRIPTION				SHEET 6 of 6			
6				5				4				3			
												D990180-00-C			
												6 of 6			
												STD			
												VER: 01			