

4 Segment Fibre Optic Panel Naming Convention <table border="1"> <tr><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></tr> </table>		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	File: /opt/CDS/c/docs/daq/drawings/dev/video.fm5 Last Modified Date: November 17, 1999		CURRENT FILE: 101011-APPD-04L DATE: 8Oct99 CHECKED BY: D. Barker		LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY Hanford Controls Video System Overview	
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Cable Numbering Scheme: XYY X=4: OM X=3: LVEA 2k X=2: LVEA 4k X=1: EY X=0: MY X=7: MX		DO NOT SCALE THIS DRAWING USED ON: _____ THE T ACC: _____		SHEET EFFECTED: _____ DATE: _____		SCALE: _____ SIZE: 11x17 D990637-00-C SHEET 1 of 6																																	
DWG. NO.	DESCRIPTION	DWG. NO.	DESCRIPTION	REV.	DESCRIPTION	DWG. NO.	DESCRIPTION																																

OSB Mass Storage Room

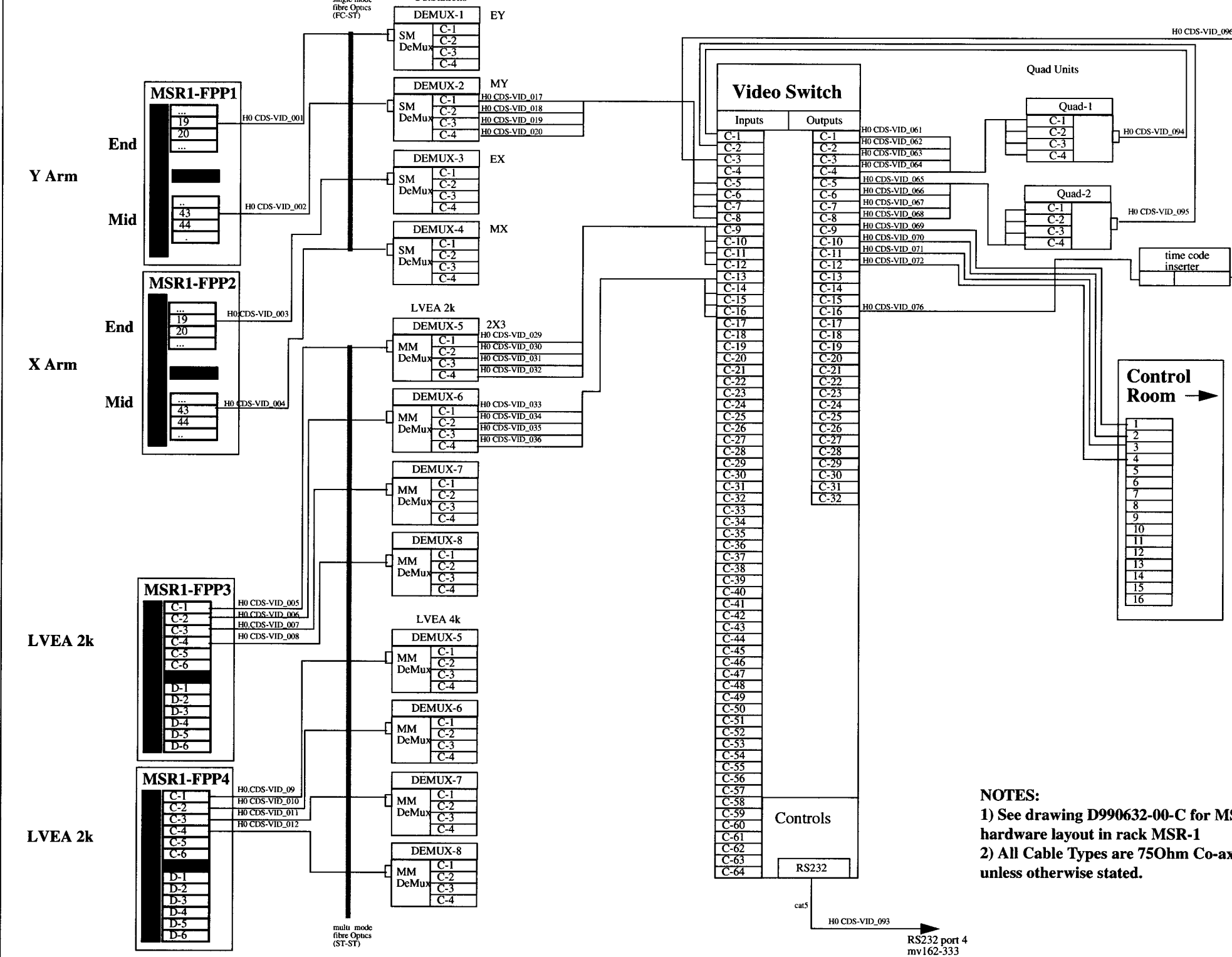


Table 1: DeMux Units

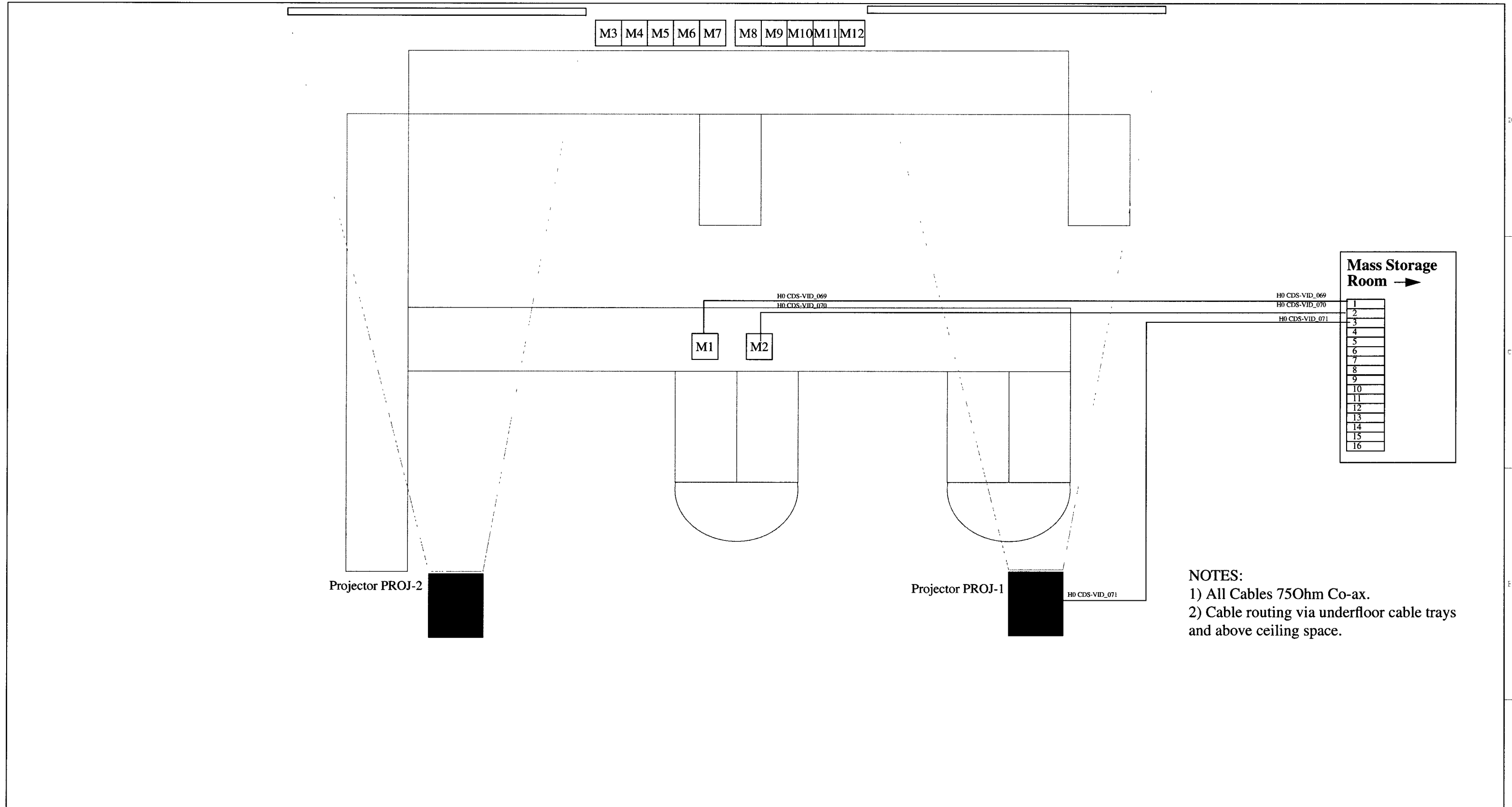
#	Manu.	FO	Model	Designator
1	IFS	SM	VR5030	DEMUX-1
2	IFS	SM	VR5030	DEMUX-2
3	IFS	SM	VR5030	DEMUX-3
4	IFS	SM	VR5030	DEMUX-4
5	IFS	MM	VR6010	DEMUX-5
6	IFS	MM	VR6010	DEMUX-6
7	IFS	MM	VR6010	DEMUX-7
8	IFS	MM	VR6010	DEMUX-8
9	IFS	MM	VR6010	DEMUX-9
10	IFS	MM	VR6010	DEMUX-10
11	IFS	MM	VR6010	DEMUX-11
12	IFS	MM	VR6010	DEMUX-12

Table 2: Video Units

Item	Manu	Model	Designator
Video Switch	Knox	Chameleon HB	VIDEO-1
Quad Unit			QUAD-1
Quad Unit			QUAD-2

NOTES:
 1) See drawing D990632-00-C for MSR hardware layout in rack MSR-1
 2) All Cable Types are 75Ohm Co-ax unless otherwise stated.

6 Segment Fibre Optics Panel Naming Convention E F		FILE: /opt/CDS/c/docs/daq/drawings/dev/video.fm5 Last Modified Date: November 17, 1999		CURRENT PE (CID) APPROVAL D. Barker 8Oct99		LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
Cable Numbering Scheme XXX Xn1 OSB Xn2 LVEA 2k Xn3 LVEA 4k Xn4 EY Xn5 MY Xn6 EX Xn7 MX		DO NOT SCALE THIS DRAWING USED ON TITLE ADD		CHECK EFFECTED DATE		Hanford Controls Video System. OSB Mass Storage Room	
DWG NO	DESCRIPTION	DWG NO	DESCRIPTION	FE	DESCRIPTION	SCALE	DATE
REFERENCE DRAWING		REFERENCE DRAWING		REFERENCE DRAWING		REFERENCE DRAWING	

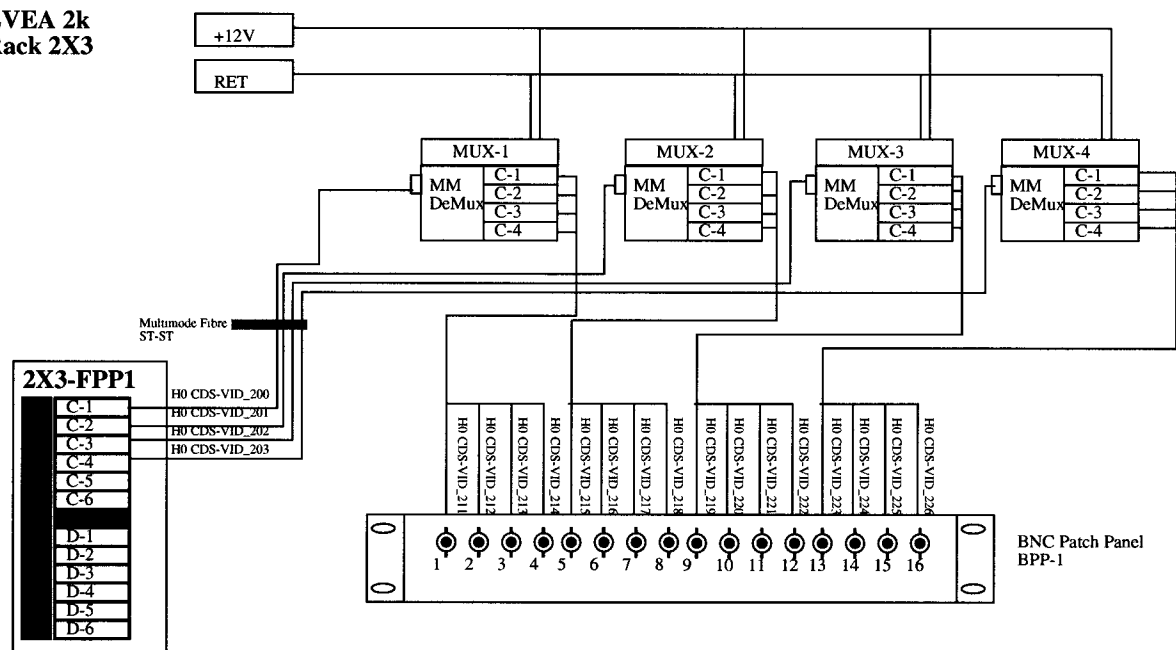


Mass Storage Room →	
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NOTES:
 1) All Cables 75Ohm Co-ax.
 2) Cable routing via underfloor cable trays and above ceiling space.

6 Segment Fibre Optic Panel Naming Convention • [Symbol] • [Symbol] • [Symbol] • [Symbol] • [Symbol] • [Symbol]		File: /opt/CDS/c/docs/daq/drawings/dev/video.fm5 Last Modified Date: November 17, 1999		CURRENT REVISION APPROVAL DRAWN: D. Barker GROUP: _____ SIGNATURE: _____ DATE: 8Oct99 CHECKED: _____		LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
Cable Numbering Scheme XYY X=1 OSB X=2 LVEA 2k X=3 LVEA 4k X=4 EY X=5 MY X=6 EX X=7 MX		DO NOT SCALE THIS DRAWING TOLERANCES: FRACTIONAL: _____ ANGULAR: _____ BEND: _____ TWO PLACE DECIMAL: _____ THREE PLACE DECIMAL: _____ FINISHED: _____ FT/IN: _____ GREAT: _____ IN: _____ DECIMAL: _____ IN: _____		FE _____ DESCRIPTION _____ SHEETS EFFECTED _____ DATE _____		Hanford Controls Video System. OSB Control Room	
DWG NO	DESCRIPTION	DWG NO	DESCRIPTION	FE	DESCRIPTION	SHEETS EFFECTED	DATE
REFERENCE DRAWING		NEXT ADD		ISSUE DESCRIPTION		DEC	
						SCALE _____ DATE _____ CAD FILE _____ SCALE _____ SHEET 3 of 6 CTD	

**LVEA 2k
Rack 2X3**



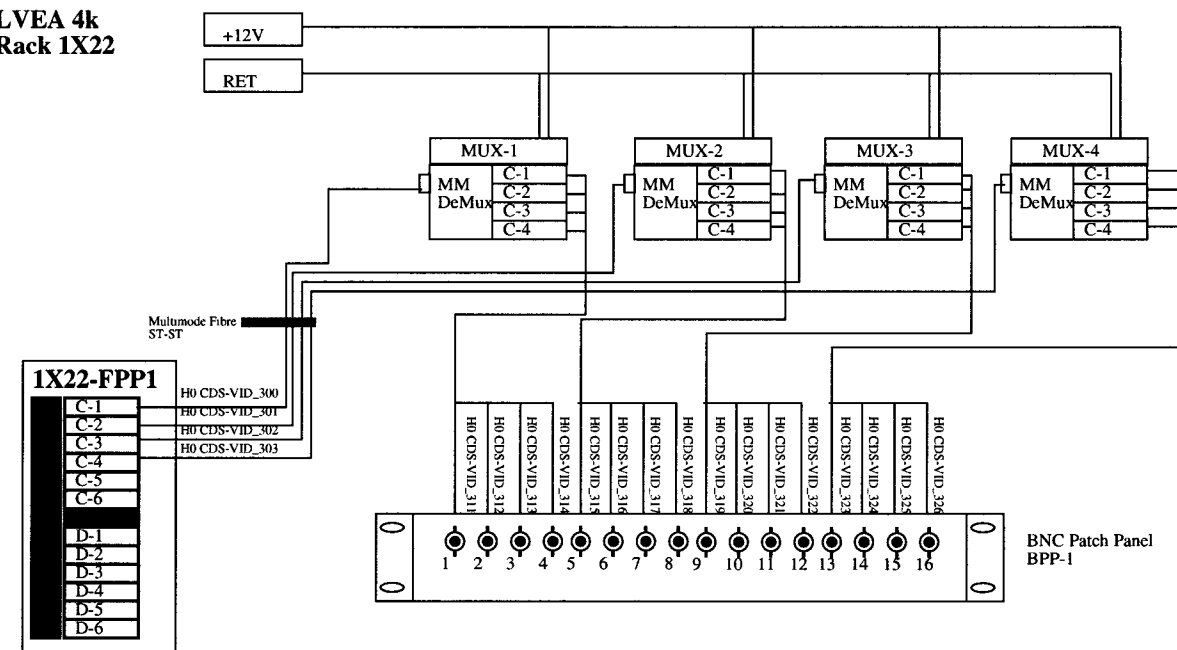
NOTES:

- 1) ASC Field Wiring Interfaces to BNC Patch Panel BPP-1.
- 2) See Drawing D990015 for Rack 2X3 Layout.
- 3) BNC Patch Panel located at back of rack 2X3.
- 4) Fibre Optics Cable from FPP1 is Multimode ST-ST.
- 5) MUX to BNC Patch Panel BPP-1 is 75Ohm Coax.

Table 1: Rack 2X3 Module List

ID	Description	Manu.	Model	Designator
1	4 Chan Mux (fibre optics)	IFS	VT6010 (MM)	MUX-1
2	4 Chan Mux (fibre optics)	IFS	VT6010 (MM)	MUX-2
3	4 Chan Mux (fibre optics)	IFS	VT6010 (MM)	MUX-3
4	4 Chan Mux (fibre optics)	IFS	VT6010 (MM)	MUX-4
5	16 port BNC patch panel	TBD	TBD	BPP-1

**LVEA 4k
Rack 1X22**



NOTES:

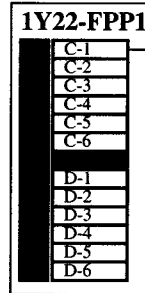
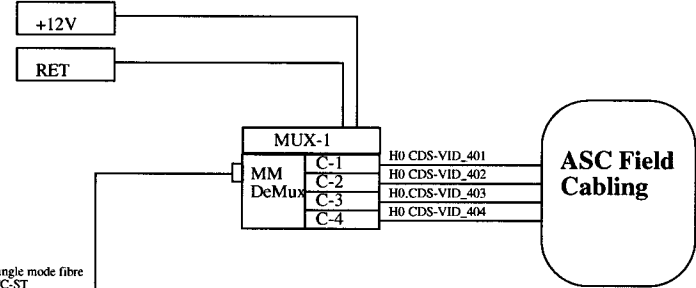
- 1) ASC Field Wiring Interfaces to BNC Patch Panel BPP-1.
- 2) See Drawing DXXXXXX for Rack 1X22 Layout.
- 3) BNC Patch Panel located at back of rack 1X22.
- 4) Fibre Optics Cable from FPP1 is Multimode ST-ST.
- 5) MUX to BNC Patch Panel BPP-1 is 75Ohm Coax.

Table 1: Rack 1X22 Module List

ID	Description	Manu.	Model	Designator
1	4 Chan Mux (fibre optics)	IFS	VT6010 (MM)	MUX-1
2	4 Chan Mux (fibre optics)	IFS	VT6010 (MM)	MUX-2
3	4 Chan Mux (fibre optics)	IFS	VT6010 (MM)	MUX-3
4	4 Chan Mux (fibre optics)	IFS	VT6010 (MM)	MUX-4
5	16 port BNC patch panel	TBD	TBD	BPP-1

<p>6 Segment Fibre Optics Panel Naming Convention</p> <p> <input type="checkbox"/> 6seg2 <input type="checkbox"/> 6seg1 </p> <p> <input type="checkbox"/> 6seg2 <input type="checkbox"/> 6seg1 </p>	<p>Cable Numbering Scheme XYZ</p> <p> Xn-1 OSB Xn-2 LVEA #k Xn-3 LVEA #l Xn-4 EX Xn-5 MY Xn-6 EX Xn-7 MX </p>	<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ± FOUR PLACE DECIMAL ± BREAK CORNERS 0.015 READ TO ALL SURFS</p> <p>DO NOT SCALE THIS DRAWING</p> <p>USED ON _____</p> <p>THE T AC 21</p>	<p>File: /opt/CDS/c/docs/daq/drawings/dev/video.fm5 Last Modified Date: November 17, 1999</p>	<p>CURRENT REVISION #FFFD AL</p> <p>DESIGNER: D. Barker CHECKED: _____</p> <p>DATE: 8Oct99</p>	<p>LIGO MASSACHUSETTS INSTITUTE OF TECHNOLOGY</p> <p>Hanford Controls Video System. LVEA</p>	<p>SCALE: _____</p> <p>TITLE: D990637-00-C</p> <p>CHEET: 4 of 6</p>	<p>DWG NO: _____</p> <p>DESCRIPTION: _____</p> <p>DWG NO: _____</p> <p>DESCRIPTION: _____</p>
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**EY (Left End)
Rack 1Y22**



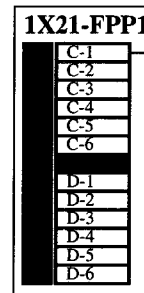
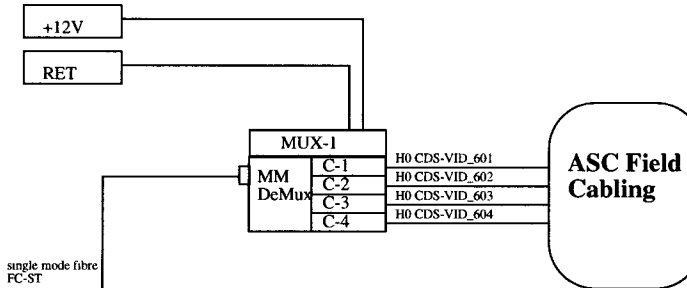
NOTES:

- 1) ASC Field Wiring Interfaces directly with MUX board.
- 2) See Drawing D990182 for Rack 1Y22 Layout.
- 3) Fibre Optics Cable from FPP1 is Single mode FC-ST.

Table 1: Rack 2X3 Module List

ID	Description	Manu.	Model	Designator
1	4 Chan Mux (fibre optics)	IFS	VT5030 (SM)	MUX-1

**EX (Right End)
Rack 1X21**



NOTES:

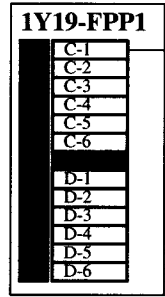
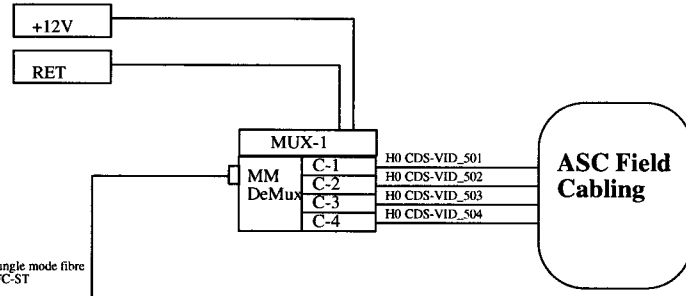
- 1) ASC Field Wiring Interfaces directly with MUX board.
- 2) See Drawing D990180 for Rack 1X21 Layout.
- 3) Fibre Optics Cable from FPP1 is Single mode FC-ST.

Table 1: Rack 2X3 Module List

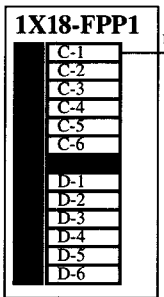
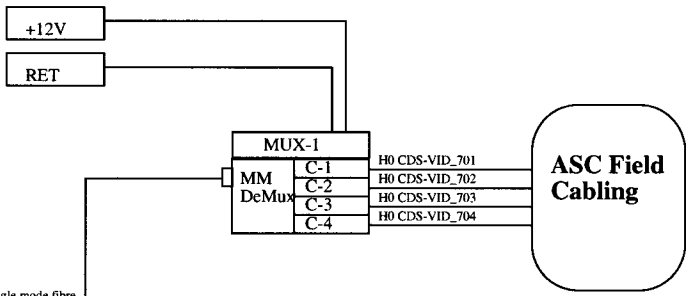
ID	Description	Manu.	Model	Designator
1	4 Chan Mux (fibre optics)	IFS	VT5030 (SM)	MUX-1

<p>4 Segment Fibre Optic Panel Naming Convention</p> <p> <input type="checkbox"/> C-1 <input type="checkbox"/> C-2 <input type="checkbox"/> C-3 <input type="checkbox"/> C-4 <input type="checkbox"/> C-5 <input type="checkbox"/> C-6 <input type="checkbox"/> D-1 <input type="checkbox"/> D-2 <input type="checkbox"/> D-3 <input type="checkbox"/> D-4 <input type="checkbox"/> D-5 <input type="checkbox"/> D-6 </p>		<p>UNLESS OTHERWISE SPECIFIED:</p> <p> DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ± FIN. HED. SURFACE FIN. BREAK TO NEXT DIM. BUT REMOVE ALL SURF. </p> <p>DO NOT SCALE THIS DRAWING</p>		<p>File: /opt/CDS/c/docs/daq/drawings/dev/video.fm5</p> <p>Last Modified Date: November 17, 1999</p>		<p>CURRENT POSITION APPROVAL</p> <p> DRAWN: D. Barker CHECKED: _____ DATE: 8 Oct 99 </p>		<p>LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY</p> <p>Hanford Controls Video System. End Stations</p>		
DWG. NO.	DESCRIPTION	DWG. NO.	DESCRIPTION	FEV	DESCRIPTION	SHEETS EFFECTED	DATE	SCALE	SIZE/DWG. THICKNESS	REV.
	REFERENCE DRAWINGS		DESCRIPTION		ISSUE DESCRIPTION					

**MY (Left Mid)
Rack 1Y19**



**MX (Right Mid)
Rack 1X18**



NOTES:

- 1) ASC Field Wiring Interfaces directly with MUX board.
- 2) See Drawing D990181 for Rack 1Y19 Layout.
- 3) Fibre Optics Cable from FPP1 is Single mode FC-ST.

NOTES:

- 1) ASC Field Wiring Interfaces directly with MUX board.
- 2) See Drawing D990179 for Rack 1X18 Layout.
- 3) Fibre Optics Cable from FPP1 is Single mode FC-ST.

Table 1: Rack 1Y19 Module List

ID	Description	Manu.	Model	Designator
1	4 Chan Mux (fibre optics)	IFS	VT5030 (SM)	MUX-1

Table 1: Rack 1X18 Module List

ID	Description	Manu.	Model	Designator
1	4 Chan Mux (fibre optics)	IFS	VT5030 (SM)	MUX-1

<p>6 Segment Fibre Optic Panel Number Convention</p> <p> <input type="checkbox"/> Cabled <input type="checkbox"/> Uncabled <input type="checkbox"/> E <input type="checkbox"/> Cabled <input type="checkbox"/> Uncabled <input type="checkbox"/> F </p> <p>Cable Numbering Scheme XXX</p> <p> Xn-1 OSB Xn-2 LVEA 2k Xn-3 LVEA 4k Xn-4 FV Xn-5 MY Xn-6 EX Xn-7 MX </p>				<p>UNLESS OTHERWISE SPECIFIED</p> <p> DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ± FINISHED SURFACE FIN ± BREAK DIMENSIONS OUT PERVIEW SURF. </p> <p>DO NOT SCALE THIS DRAWING</p> <p>UNLESS OTHERWISE SPECIFIED</p> <p>NEAT AND</p>	<p>File: /opt/CDS/c/docs/daq/drawings/dev/video.fm5</p> <p>Last Modified Date: November 17, 1999</p>	<p>CURRENT REVISION APPROVAL</p> <p> DRAWN: D. Barker CHECKED: </p> <p>GROUP: SIGNATURE: DATE: 8Oct99</p>	<p>LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY</p> <p>Hanford Controls Video System. Mid Stations</p>
	<p>DWG NO: DESCRIPTION: REFERENCE DRAWING:</p>	<p>DWG NO: DESCRIPTION:</p>	<p>FE DESCRIPTION: SHEET EFFECTED: DATE:</p>	<p>SCALE: SIZE DWG: D990637-00-C</p> <p>CAD FILE: SCALE: SHEET: 6 of 6 CTD</p>			