



Rev.	Description	Date	None
1	Initial Release		Dunham
2	Change switch, add spare Netra, correct CB rating in plug strips, add note 2, correct TA connectors on Sheet 2.		Dunham
3	Mac Mini & gnd. Lug changes		Dunham
4	Power and MADS corrections & circuit breaker update		Dunham

4/1/13

Table of HIPO-MCCS Interface Connections

Patch Panel Identification	Connector Identification	Connector Specification	HIPO Cable Specification	Connector Function
J1 (DOZ9089)	P1	MS3459W22-2P	M27500-12SD2T23	F.C. power
J2 (DOZ9090)	P2	MS3459W22-2PW	M27500-12SD2T23	UPS power
G1-G4	HIPO safety ground	#10 lug	M22759/34-12-96	Ground
J4	P4	ST fiber optic, 0200-3000	M85045/16	Network TX <sup>1</sup>
J5	P5	ST fiber optic, 0200-3000	M85045/16	Network RX <sup>1</sup>
J55a	P55a	AMP 2-329444-1	M17/183-00001	GPS antenna
J55b	P55b	AMP 2-329444-1	M17/183-00001	GPS antenna

<sup>1</sup> Relative to SI equipment

Table of HIPO to SMA Interface Connections

Patch Panel Identification	Connector Identification	Connector Specification	HIPO Cable Specification	Connector Function
J4612	P4612	Amphenol 69475 with ADBJ20-E1-PL75 BNC-Triax adapter	M17/196-00001	Chop_Sync_In
J4619 or J4620	P4619 or P4620	Amphenol 69475 with ADBJ20-E1-PL75 BNC-Triax adapter	M17/196-00001	Chop_Phase_Out or Chop_Sync_Out
J4615	P4615	PL75-47	M17/176-00002	Analog_R_In
J4616	P4616	PL75-47	M17/176-00002	Analog_S_In
J4617 or J4613	P4617	PL75-47	M17/176-00002	Analog_R_Out or R_FBC_Out
J4618 or J4614	P4618	PL75-47	M17/176-00002	Analog_S_Out or S_FBC_Out

Table of HIPO SI Patch Panel Connections, SI Rack End

Patch Panel Identification	Connector Identification	Connector Specification	HIPO Cable Specification	Connector Function
J128	P128	M83723/75W1404N	M27500-12SD2T23	Blue channel UPS power
J129	P129	M83723/75W14046	M27500-12SD2T23	Red channel UPS power
J80	P80	ST fiber optic, 0200-3000	M85045/16	Blue Leach box RX <sup>1</sup>
J81	P81	ST fiber optic, 0200-3000	M85045/16	Blue Leach box TX <sup>1</sup>
J82	P82	ST fiber optic, 0200-3000	M85045/16	Blue 1,2,5, or 10 MHz
J83	P83	ST fiber optic, 0200-3000	M85045/16	Blue 1 PPS
J84	P84	ST fiber optic, 0200-3000	M85045/16	Red Leach box RX <sup>1</sup>
J85	P85	ST fiber optic, 0200-3000	M85045/16	Red Leach box TX <sup>1</sup>
J86	P86	ST fiber optic, 0200-3000	M85045/16	Red 1,2,5, or 10 MHz
J87	P87	ST fiber optic, 0200-3000	M85045/16	Red 1 PPS
J88	P88	ST fiber optic, 0200-3000	M85045/16	Red Network RX <sup>1</sup>
J89	P89	ST fiber optic, 0200-3000	M85045/16	Red Network TX <sup>1</sup>
J90	P90	ST fiber optic, 0200-3000	M85045/16	Blue Network RX <sup>1</sup>
J91	P91	ST fiber optic, 0200-3000	M85045/16	Blue Network TX <sup>1</sup>

<sup>1</sup> Relative to telescope-mounted SI equipment

Table of HIPO SI Patch Panel Connections, Telescope End

Patch Panel Identification	Connector Identification	Connector Specification	HIPO Cable Specification	Connector Function
J128	HIPO Blue Power	M83723/78W1404N	M27500-12SD2T23	Blue channel UPS power
J129	HIPO Red Power	M83723/78W14046	M27500-12SD2T23	Red channel UPS power
1/4-28 Gnd point	HIPO safety ground	1/4" lug	Braid per HI-M01-27	Ground
J80	P80	ST fiber optic, 0200-3000	M85045/16	Blue Leach box RX <sup>1</sup>
J81	P81	ST fiber optic, 0200-3000	M85045/16	Blue Leach box TX <sup>1</sup>
J82	P82	ST fiber optic, 0200-3000	M85045/16	Blue 1,2,5, or 10 MHz
J83	P83	ST fiber optic, 0200-3000	M85045/16	Blue 1 PPS
J84	P84	ST fiber optic, 0200-3000	M85045/16	Red Leach box RX <sup>1</sup>
J85	P85	ST fiber optic, 0200-3000	M85045/16	Red Leach box TX <sup>1</sup>
J86	P86	ST fiber optic, 0200-3000	M85045/16	Red 1,2,5, or 10 MHz
J87	P87	ST fiber optic, 0200-3000	M85045/16	Red 1 PPS
J88	P88	ST fiber optic, 0200-3000	M85045/16	Red Network RX <sup>1</sup>
J89	P89	ST fiber optic, 0200-3000	M85045/16	Red Network TX <sup>1</sup>
J90	P90	ST fiber optic, 0200-3000	M85045/16	Blue Network RX <sup>1</sup>
J91	P91	ST fiber optic, 0200-3000	M85045/16	Blue Network TX <sup>1</sup>

<sup>1</sup> Relative to telescope-mounted SI equipment

Item		Qty:	Description	Specification
HIPO High-Speed Imaging Photometer for Observations Lovell Observatory Flagstaff, AZ 86001				
TITLE:		Top-Level Wiring Diagram		
Orig. No. HI-M00-00		Size: D	Sheet 2 of 2	
Scale: N/A		Next Assy: HI-P01-00	Calc. Wt. N/A	
Drawn: Dunham		Date: 4/1/13	Approved: <i>ewb</i>	
Checked: <i>DLCO</i>		Date: 4/1/2013	Date: 4/1/13	