



NOTES, UNLESS OTHERWISE SPECIFIED:

REV	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	2/19/99	

TOT	PNL	DRAWING	TITLE/DESCRIPTION	COMMENTS
32	89-GP-1000-7953		PANEL CONNECTING FLEX LINES	
31	89-GP-1000-7952		HELIUM LONG RETURN FLEX LINES	
30	89-GP-1000-7951		HELIUM SHORT RETURN FLEX LINES	
29	89-GP-1000-7200		SERVICES BREAKOUT PANEL ASSEMBLY	DOUBLE PANEL
28				
27	89-GP-1000-7952		HELIUM LONG RETURN FLEX LINES	
26	89-GP-1000-7951		HELIUM SHORT RETURN FLEX LINES	
25	89-GP-1000-7950		HELIUM SUPPLY FLEX LINES	
24	89-GP-1000-7953		PANEL CONNECTING FLEX LINES	
23	89-GP-1000-7952		HELIUM LONG RETURN FLEX LINES	
22	89-GP-1000-7951		HELIUM SHORT RETURN FLEX LINES	
21	89-GP-1000-7200		SERVICES BREAKOUT PANEL ASSEMBLY	DOUBLE PANEL
20				
19	89-GP-1000-7952		HELIUM LONG RETURN FLEX LINES	
18	89-GP-1000-7951		HELIUM SHORT RETURN FLEX LINES	
17	89-GP-1000-7950		HELIUM SUPPLY FLEX LINES	
16	89-GP-1000-7953		PANEL CONNECTING FLEX LINES	
15	89-GP-1000-7952		HELIUM LONG RETURN FLEX LINES	
14	89-GP-1000-7951		HELIUM SHORT RETURN FLEX LINES	
13	89-GP-1000-7200		SERVICES BREAKOUT PANEL ASSEMBLY	DOUBLE PANEL
12				
11	89-GP-1000-7952		HELIUM LONG RETURN FLEX LINES	
10	89-GP-1000-7951		HELIUM SHORT RETURN FLEX LINES	
9	89-GP-1000-7950		HELIUM SUPPLY FLEX LINES	
8	89-GP-1000-7953		PANEL CONNECTING FLEX LINES	
7	89-GP-1000-7952		HELIUM LONG RETURN FLEX LINES	
6	89-GP-1000-7951		HELIUM SHORT RETURN FLEX LINES	
5	89-GP-1000-7200		SERVICES BREAKOUT PANEL ASSEMBLY	DOUBLE PANEL
4				
3	89-GP-1000-7952		HELIUM LONG RETURN FLEX LINES	
2	89-GP-1000-7951		HELIUM SHORT RETURN FLEX LINES	
1	89-GP-1000-7950		HELIUM SUPPLY FLEX LINES	

X & Y ARE THE CASS. ROTATOR COORDINATE SYSTEM ROTATOR ANGLE = 0

**GEMINI 8-M Telescopes Project**  
 Operated by the Association of Universities for Research in Astronomy, Inc. (AURA) under cooperative agreement with the National Science Foundation.

**CASSEGRAIN CABLE WRAP INSTRUMENT SERVICES PANELS**

89-GP-1000-5004

UNLESS OTHERWISE SPECIFIED:  
 • DIMENSIONS ARE IN MILLIMETERS  
 • DECIMALS = 0.05 ANGLES = 0.1  
 • FINISHES: UNLESS OTHERWISE SPECIFIED, ALL SURFACES TO BE FINISHED TO 12.5 μm RMS  
 • REMOVE ALL BURRS AND SHARP EDGES AND FILE  
 • ROUND ADJACENT MOUNTED CORNERS TO 0.25 mm RADIUS  
 • INSPECTION OF SURFACES TO BE BY FED-STD-103/20, SYSTEM 31

**TOLERANCES**

SIZE	0-10	0.10	0.15	0.30	0.50
FINISH	3.18	0.25	0.38	0.76	1.27
APPROX.	15.75	0.25	0.38	0.76	1.27
APPLICATION	19.05	0.25	0.38	0.76	1.27

DATE: 12/2/98  
 DRAWN BY: S. Montgomery  
 CHECKED BY: [blank]  
 TITLE: [blank]  
 PROJECT: [blank]  
 CONTRACT: [blank]  
 RELEASE: [blank]