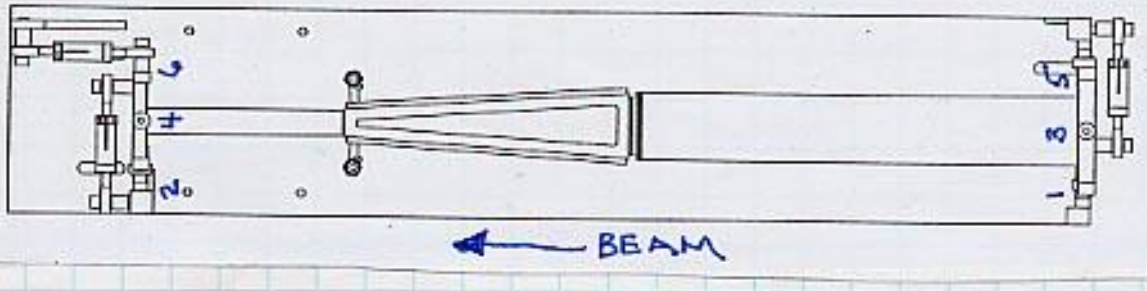
SSRL

BL 12-2 MØ 1ST PIVOT MASK 7-06

C.B., L.G.



	X	Y	Z
1	+3.801	+ .175	-31.700
2	+3.162	- .028	+ 9.665
3	+ .004	+3.949	-31.665
4	- .021	+3.132	+9.673
5	-3.809	+ .160	-31.702
6	-3.169	- .041	+9.650

VALUES FROM ℄ OF U/S & O/S APERTURES

Σ FROM O/S APERTURE

	X	Y	Z
1	+4.143 ✓	+ .175	-31.727 ✓
2	+3.803 ✓	- .028	+ 9.642 ✓
3	+ .347 ✓	+3.949	-31.664 ✓
4	+ .620 ✓	+3.132	+ 9.673 ✓
5	-3.467 ✓	+ .160	-31.674 ✓
6	-2.528 ✓	- .041	+9.673 ✓

VALUES TO 12-2 LINE

SSRL

BL 12-2 MΦ 1ST PIVOT MASK

7-25-06

C.B., L.G.

(X) 9.924 LOS
8.000
17.924 = ℄

U/S APER.

(+)	(-)
17.924	17.924
.944	.944
16.980 S/R	18.868 S/R
+.002	+.002
16.978	18.866

℄ = 17.922

D/S APER.

(+)	(-)
17.924	17.924
.158	.158
17.766 S/R	18.082 S/R
+.005	+.005
17.761	18.077

℄ = 17.919

USED D/S APERTURE ℄ AS Φ

17.919 = ℄
1.400 Bucking
+16.519 LOS

1) 11.718
1.000
12.718
16.519
+3.801 ✓

2) 12.357
1.000
13.357
16.519
+3.162 ✓

3) 15.515
1.000
16.515
16.519
+.004

4) 15.540
1.000
16.540
16.519
-021 ✓

5) 11.457
8.871
20.328
16.519
-3.809

6) 10.817
8.871
19.688
16.519
-3.169 ✓

CK

SSRL

BL12-2 MØ 1ST PIVOT MASK

7-24-06
C.B., L.G.

(Y) 27.825 REF.
11.985 = ℄
+15.840 HI

1) 14.665
+1.000
15.665
15.840
+.175 ✓

2) 14.868
+1.000
15.868
15.840
-.028 ✓

3) 10.891
+1.000
11.891
15.840
+3.949 ✓

4) 11.708
+1.000
12.708
15.840
+3.132 ✓

5) 14.680
+1.000
15.680
15.840
+.160 ✓

6) 14.881
+1.000
15.881
15.840
-.041 ✓

CB

(Z)

SSRL

BL 12-2 MØ 1ST PIVOT MASK 7-25-06

C.B., L.G.

2.783
(+).750 D/S FACE TO D/S APERTURE
+3.533 LOS

D/S APERTURE IS Z = Ø

1) 34.233
1.000
-35.233
3.533
-31.700 ✓

2) 5.132
1.000
+6.132
3.533
+9.665 ✓

3) 34.198
1.000
-35.198
3.533
-31.665 ✓

4) 5.140
1.000
6.140
3.533
+9.673 ✓

5) 34.235
1.000
-35.235
3.533
-31.702 ✓

6) 5.117
1.000
6.117
3.533
+9.650 ✓ CB

SSRL

BL12-2 MØ 1ST PIVOT MASK 7-24-06

C.B., L.G.

SETTING

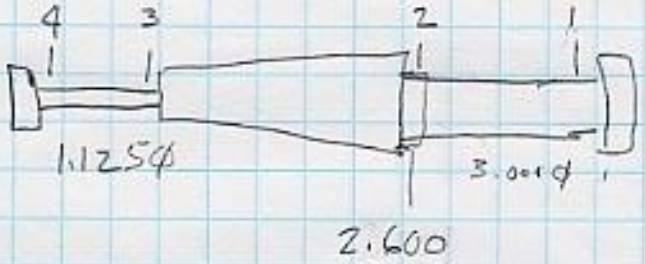
27.830 READ TO TOP OF TABLE
12.000 to BL
15.830 HT

1.685/2 =
.843

1) 15.830
.843
14.987
1. ——— ft
13.987 S/R
13.994
-007

2) 13.987 S/R
13.994
-007

3) 13.987 S/R
13.994
-007



(X)
4.125
4.125
9.000
7.943
3.000
3.924
5.799
5.799
9.924 LOS

1) 9.924
1.500R
8.424 S/R
8.410
+014

2) 9.924
1.300 1/2
8.624 S/R
8.624
Ø

3) 9.924
.563R
9.361 S/R
9.361
Ø

4) 9.924
.563R
9.361 S/R
9.368
-007

SSRL 7-24-06

BL12-2 MØ 1ST PIVOT MASK C.B., L.G.

CHECKING APERTURES u/s & d/s

(Y)

13.994 READ
.843 ½ MARK BODY
14.837
1.000 FT
+15.837 HI

27.825 REF
15.837
11.988 = ℄

u/s APERT.

TOP	BOT.
11.988	11.988
.487½	.487½
12.475 S/R	11.501 S/R
-.003 -.005	+ -
M = -.004	⌀ ⌀
12.471 = TOP	11.501 = Bot
11.986 = ℄	

d/s APERT.

TOP	BOT
11.988	11.988
.118	.118
12.106 S/R	11.870 S/R
(+) (-)	(+) (-)
⌀ ⌀	-.005 -.008
12.106 = Top	11.862 = Bot
M = 11.985 = ℄	11.994 = ℄

CHECKING PIPES

u/s 3"

u/s) 15.837
1.500 R
14.337 S/R
14.179
+158

d/s) 14.337 S/R
14.360
-.023

d/s 1.125

u/s) 15.837
.563R
15.274 S/R
15.277
-.003

u/d) 15.274 S/R
15.309
-.035

Measure pressure drops at 3 flow rates:

Pressure drop at 2.0GPM 150 2.6GPM 230 2.7GPM 245

Weld assembly SA-451-065-72, according to tree layout

5 JP AZ 7-12-06 Weld parts and subassemblies. Respect dimensions and geometrical tolerances as per SA-451-065-72. The weld set up must be inspected by Dan Harrington or Tim Hickey before proceeding.

6 _____ Fiducialize US and DS apertures of the Mask (US aperture is understood as the biggest window on the glidcop body of the mask assy. DS aperture is understood as the smallest defining aperture on the glidcop body of the mask assy.)

Installation on site: drawing ID-451-055-90

The M0 1st pivot mask is attached to the bellows just downstream of the M0 mirror tank drift tube as shown on ID-451-055-90.

Position of the center of US aperture relative to 12-2 beam line source and center line
X= +12.3 ± 0.5mm
Y= 0 ± 0.5mm
Z=~16107 ± 5 mm

Position of the center of DS aperture relative to 12-2 beam line source and center line:
X= +14.5 ± 0.5mm
Y= 0 ± 0.5mm
Z= 16412 ± 5 mm