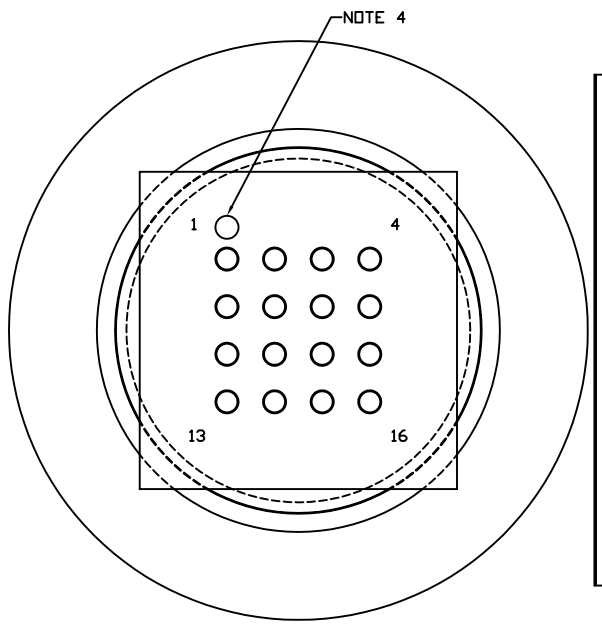
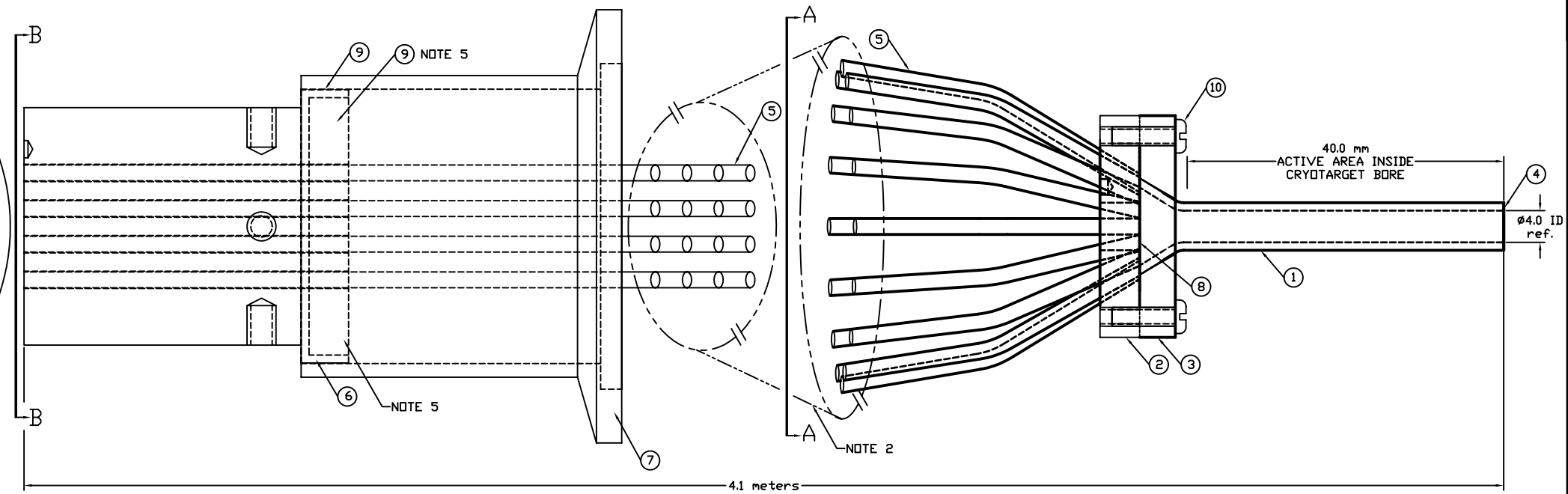
DWG. NO.	66850-C-04240	SHT. 1	REV. A

REVISIONS

ZONE	REV.	DESCRIPTION	DATE	APPROVED
C2 B2	A	Revised items 2&3. Changed item 8 from glue to optical grease. Added item 10.	4/22/05	

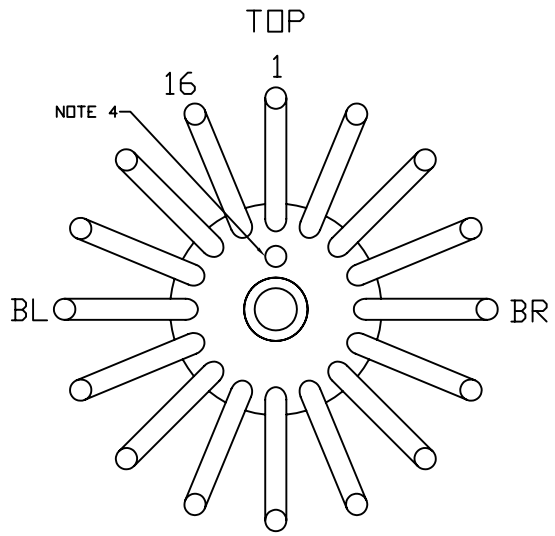


VIEW B_B



TRANSLATION TABLE

FIBER POS. #	HAMAMATSU PIXEL #
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16



VIEW A_A

NOTES:

1. USED WITH HAMAMATSU PHOTOMULTIPLIER TUBE ASSEMBLY H8711-10. THERE ARE 16 PIXELS ARRANGED IN A 4X4 MATRIX. EACH PIXEL IS 4.2 MM SQUARE AND SEPARATED BY 0.3 MM.

2. CUT FIBERS TO 4.1 METER LENGTHS. ALLOW 0.1-1.0 MM EXCESS PAST END OF RINGS. POLISH TO FACE OF RING AFTER ADHESIVE HAS CURED.

3. PAINT ON DOWNSTREAM END OF ITEM 1 (AFTER POLISHING THE TUBE).

4. INDEX MARK DENOTING POSITION #1. NUMBERING OF THE FIBERS ON THE PHOTMULTIPLIER ADAPTER INDEX UPWARD FROM LEFT TO RIGHT IF YOU ARE LOOKING DOWNSTREAM OF THE BEAM. THE FIBER COLLAR USES THE TOP HOLE AS POSITION #1 AND INDEXES UPWARD IN A CLOCKWISE FASHION IF YOU ARE LOOKING DOWNSTREAM.

5. GLUE WELL FOR SECURING FIBERS TO ADAPTER. POT WITH ITEM 9.

6. FIBERS ARE ROUTED FROM THE REAR OF THE CRYOTARGET (WHERE THE ACTIVE AREA IS INSERTED) TO A KF-40 FLANGE ON THE VACUUM MANIFOLD ON THE BOTTOM OF THE SACLAY ASSEMBLY (WHERE IT IS READ OUT BY THE PMT). KEEP THE BENDS OF THE FIBERS AS LARGE AS POSSIBLE AND KEEP THE FIBERS OUT OF THE BEAM PATH.

QTY REQD	ITEM NO.	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	NOTES/MATERIAL SPECIFICATION
4	10	SCREW	2-56 X 8 MM	ALUMINUM
1	9	3M DP-100	FAST CURING EPOXY	0.001-0.005" FILM ON ALL CONTACT SURFACES
1	8	BICRON, 6630-00001	OPTICAL GREASE	APPLY TO FIBER-GLASS INTERFACE
1	7	VARIAN #K840-0180-175	KF-40 NIPPLE	
1	6	66850-A-03993	POSITION SENSITIVE PHOTOTUBE ADAPTER	NOTE 1
16	5	INDUSTRIAL FIBER OPTIC, SK-80	2 MM DIA. CLEAR PMMA OPTICAL FIBER, SINGLE CLAD	NOTE 2
1	4	TESTORS	ALUMINUM PAINT	NOTE 3
1	3	66850-A-04243, rev. A	FORWARD RETAINING RING	
1	2	66850-A-04242, rev. A	FIBER COLLAR	
1	1	66850-A-04241	QUARTZ GLASS TUBE	

PARTS LIST

DIM & TOL PER ANSI Y14.5 . UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS
TOLERANCES ARE:
FRACTIONS ± DECIMAL .X ± .1 .XX ± ANGLES ±

MATERIAL

FINISH UNLESS OTHERWISE NOTED
DEBURR & BREAK ALL SHARP EDGES

DO NOT SCALE DRAWING

CADD I.D. NO.
christo\\c:\ACAD DRAWINGS\dwg1\tar_fiber_safety_ring_glass_16hole.dwg

APPROVALS	DATE
DRAWN s. christo	12/15/04
CHECKED DHK	12/22/04
APPROVED/ORIGINATOR s. christo	12/22/04
APPROVED DHK	12/22/04

Jefferson Lab
Thomas Jefferson National Accelerator Facility
NEWPORT NEWS, VIRGINIA
UNITED STATES DEPARTMENT OF ENERGY

CLAS CRYOTARGET GLASS BEAM OFFSET MONITOR (IOF2H01) ASSEMBLY

SIZE	DWG. NO.	REV.
C	66850-C-04240	A

SCALE 2:1 | USED ON ASSY NO. VARIOUS | SHEET 1 OF 1