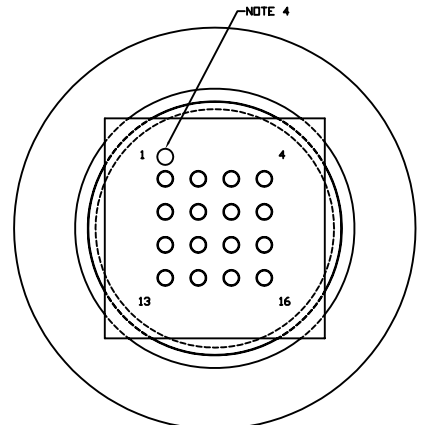


DWG. NO.	66850-C-03988	SHT.	1	REV.	1
REVISIONS					
ZONE	REV.	DESCRIPTION	DATE	APPROVED	

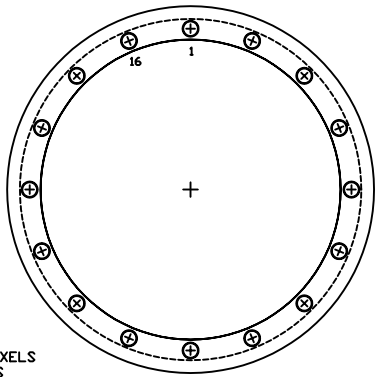
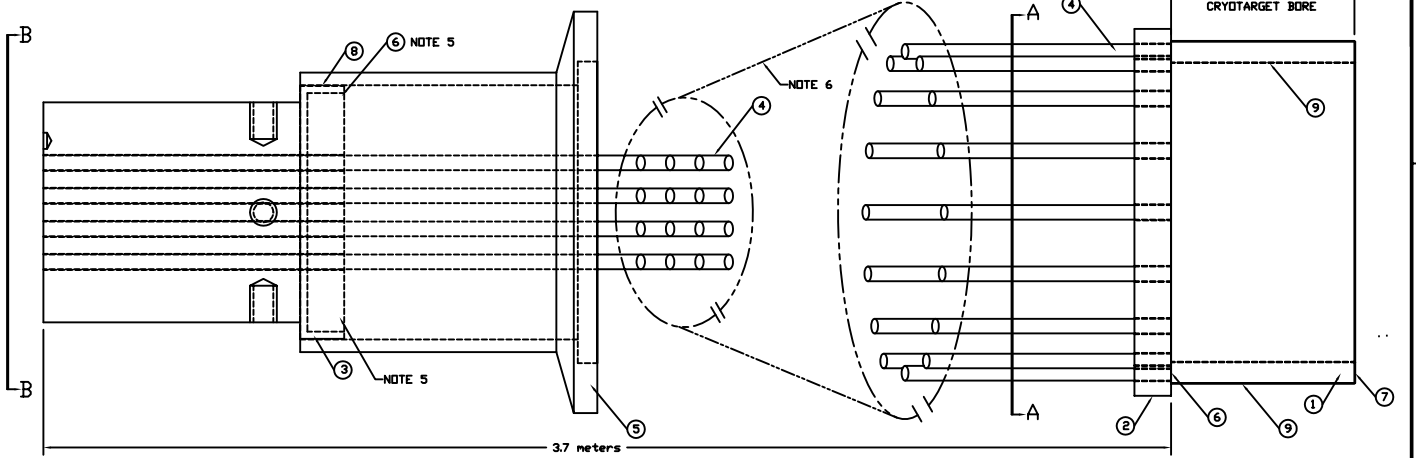


VIEW B_B

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

- NOTES:
- 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.
 - CUT FIBERS TO 3.7 METER LENGTHS. ALLOW 0.1-1.0 MM EXCESS PAST END OF RINGS. POLISH TO FACE OF RING AFTER ADHESIVE HAS CURED.
 - ATTACH TO DOWNSTREAM END OF SCINTILLATOR RING (AFTER POLISHING RING) USING DYMAX UV CURING ADHESIVE. BE SURE THE REFLECTIVE SIDE OF THE FOIL FACES THE POLISHED END OF THE SCINTILLATOR.
 - INDEX MARK DENOTING POSITION #1. NUMBERING OF THE FIBERS ON THE PHOTOMULTIPLIER 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.



SECTION A_A

- GLUE WELL FOR SECURING FIBERS TO ADAPTER. PRT WITH ITEM 6 AND CURE WITH UV LIGHT SOURCE.
- 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.
- CUT TO FIT DD OF ITEM 03989 AND IDs OF ITEMS 03989 AND 03990. TAPE SEAMS WITH 1 MIL, YELLOW POLYESTER TAPE.

QTY	ITEM NO.	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	NOTES/MATERIAL SPECIFICATION
1	9	3M VM2000	RADIANT MIRROR FILM, T=0.07 MM	NOTE 7
1	8	3M DP-100	FAST CURING EPOXY	
1	7	66850-A-03991	FOIL REFLECTOR	NOTE 3
1	6	DYMAX ULTRA LIGHT WELD	UV CURING ADHESIVE	
1	5	VARIAN #KB40-0180-175	KF-40 NIPPLE	
12	4	INDUSTRIAL FIBER OPTIC, SK-80	2 MM DIA. CLEAR PMMA OPTICAL FIBER, SINGLE CLAD	NOTE 2
1	3	66850-A-03993	POSITION SENSITIVE PHOTOTUBE ADAPTER	NOTE 1
1	2	66850-A-03990	FIBER COLLAR	
1	1	66850-A-03989	SCINTILLATOR RING	

PARTS LIST			
DIM & TOL PER ANSI Y14.5 - UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: FRACTIONS DECIMAL ANGLES * .X ±.1 * .XX *		CADD I.D. NO. christo\\d:\ACAD DRAWINGS\dwg1\ tor_G10fiber_safety_ring.dwg	
MATERIAL _____		APPROVALS s. christo 1/14/04	DATE 1/14/04
FINISH <input checked="" type="checkbox"/> UNLESS OTHERWISE NOTED		CHECKED DHK 1/21/04	APPROVED/ORIGINATOR s. christo 1/21/04
DEBURR & BREAK ALL SHARP EDGES		APPROVED DHK 1/21/04	APPROVED DHK 1/21/04
DO NOT SCALE DRAWING			SIZE DWG. NO. 66850-C-03988 REV. 1
SCALE 2:1		USED ON ASSY NO. VARIOUS	SHEET 1 OF 1

Jefferson Lab
 Thomas Jefferson National Accelerator Facility
NSF/DOE USER FACILITY
 UNITED STATES DEPARTMENT OF ENERGY

CLAS CRYOTARGET
 40 MM Ø PHOTON BEAM OFFSET MONITOR (IOF2H01)
 ASSEMBLY

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