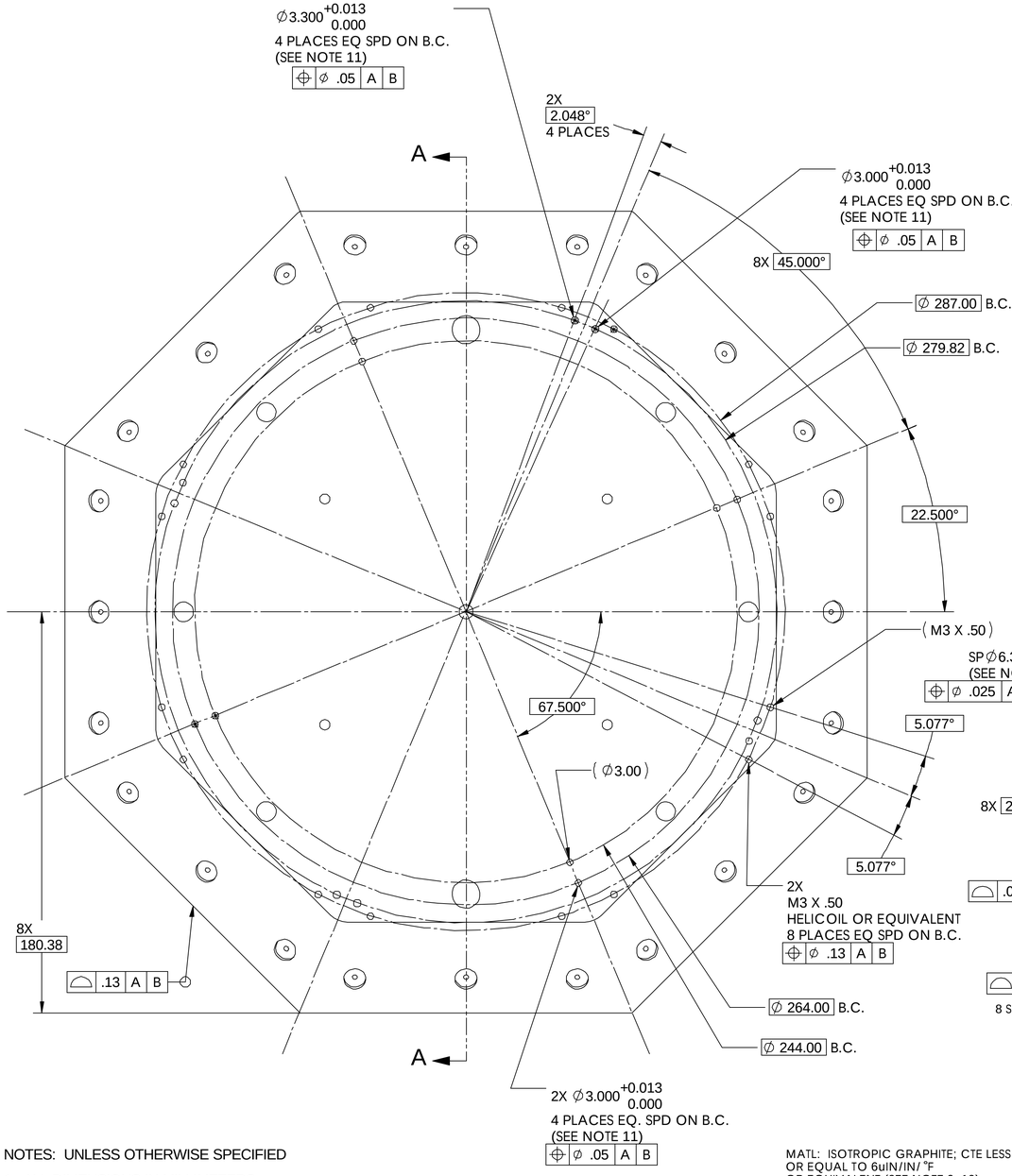
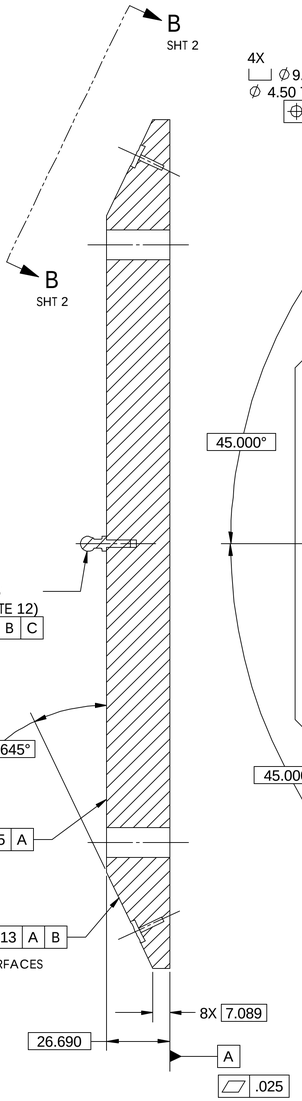
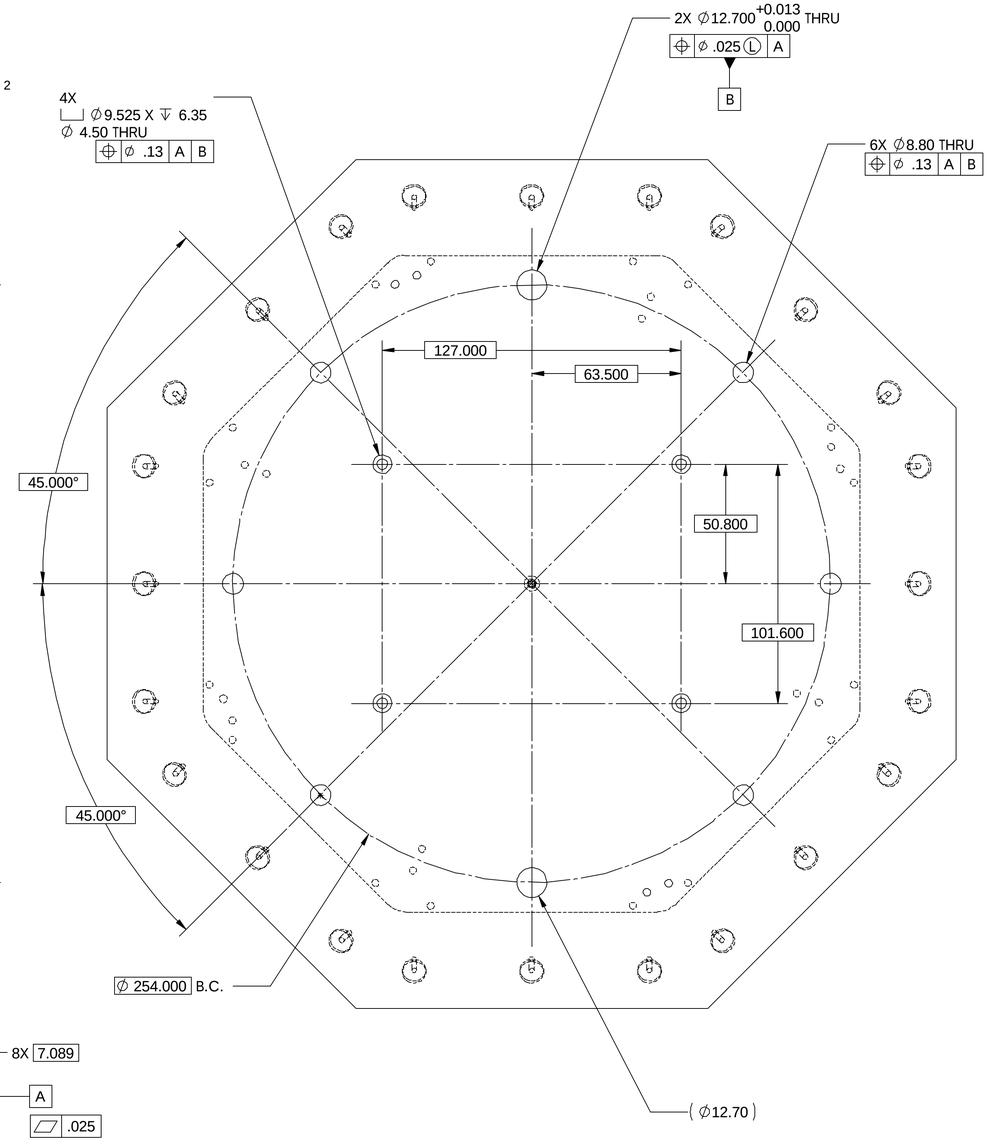
DWG. NO.	SIZE	REV.	SH.
21F748 4	-	-	1

DESCRIPTION	MATERIAL	MAT. LOCATION







NOTES: UNLESS OTHERWISE SPECIFIED

1. ALL DIMENSIONS IN MILLIMETERS
2. DIMENSIONS AND TOLERANCING PER ASME Y14.5M-1994
3. SURFACE TEXTURE PER ANI/ASME B 46.1-1985
4. REMOVE ALL BURRS AND BREAK SHARP EDGES TO A MAXIMUM OF .38
5. ALL INSIDE CORNERS TO BE .38 RADIUS MAX
6. COUNTERSINK 82 DEGREES ALL TAPPED HOLES TO MAJOR DIAMETER
7. COUNTERSINK 82 DEGREES APPROXIMATELY .38 DEEP ALL DRILLED HOLES
8. PARTS TO BE THOROUGHLY CLEANED TO REMOVE ALL OIL, GREASE, DIRT AND CHIPS
9. ROOM TEMPERATURE DURING MACHINING TO BE RECORDED AND PROVIDED TO LAWRENCE BERKELEY LABORATORY; TOP AND BOTTOM PLATES TO BE MACHINED AT THE SAME TEMPERATURE (WITHIN 5 DEGREES F)
10. INSPECTION REPORTS TO BE PROVIDED TO LAWRENCE BERKELEY LABORATORY
11. HOLES ARE THRU HOLES, OR 3X DIA. DEEP WITH A SMALLER PILOT HOLE THRU
12. 6.35 DIA. TOOLING BALL PERMANENTLY INSTALLED

MATL: ISOTROPIC GRAPHITE; CTE LESS THAN OR EQUAL TO 6uIN/IN/ °F OR EQUIVALENT (SEE NOTE 9, 10)

SECTION A-A

REV	DWG	CHK	ZONE	DATE	CHANGES

UNLESS OTHERWISE SPECIFIED

TOLERANCES: X.X ± 0.5 FRAC. ± 1/64; X.XX ± 0.25 ANGLES ± 30'; X.XXX ± 0.013 FINISH 1.6

DO NOT SCALE PRINT

THREADS ARE CLASS 2

CHAMFER ENDS OF ALL SCREW THREADS 30°

CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS

BREAK EDGES .016 MAX. ON MACHINED WORK

REMOVE BURRS, WELD SPLATTER & LOOSE SCALE

IN ACCORDANCE WITH ASME Y14.5m & B46.1

SHOP ORDERS

ACCT NO.	NO. REQD
DEL TO	
SURFACE TREATMENT	
IDEN METHOD TAG	
PROJECT NUMBER	ATL-IP-ED-XXXX
PROJECT NAME	US ATLAS SILICON SUBSYSTEM
DWG BY	W. K. MILLER — DATE 4/16/2002
CHK BY	BILL WILDS — DATE 4/16/2002
APR BY	E ANDERSSEN — DATE 4/16/2002

SER NO.

DATE ISSD

DATE REQD

US ATLAS SILICON SUBSYSTEM (USA)

ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY

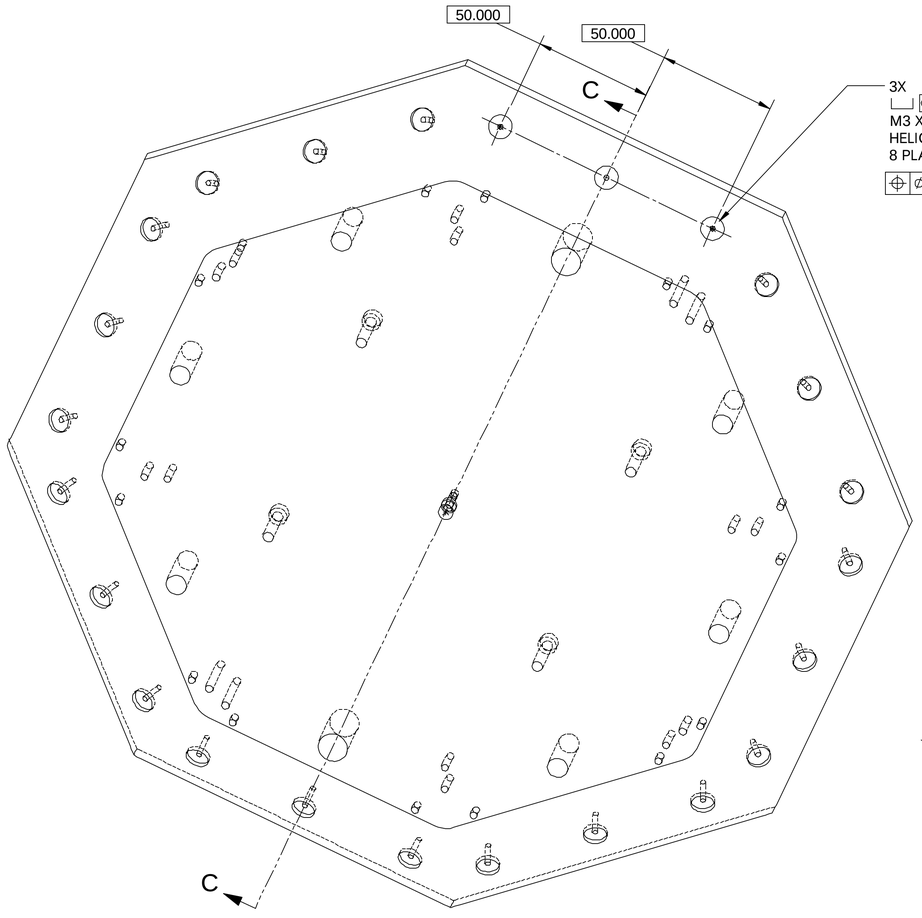
UNIVERSITY OF CALIFORNIA - BERKELEY ≠

ATLAS PIXEL DETECTOR ENDCONE BOND FIXTURE TOP GRAPHITE PLATE

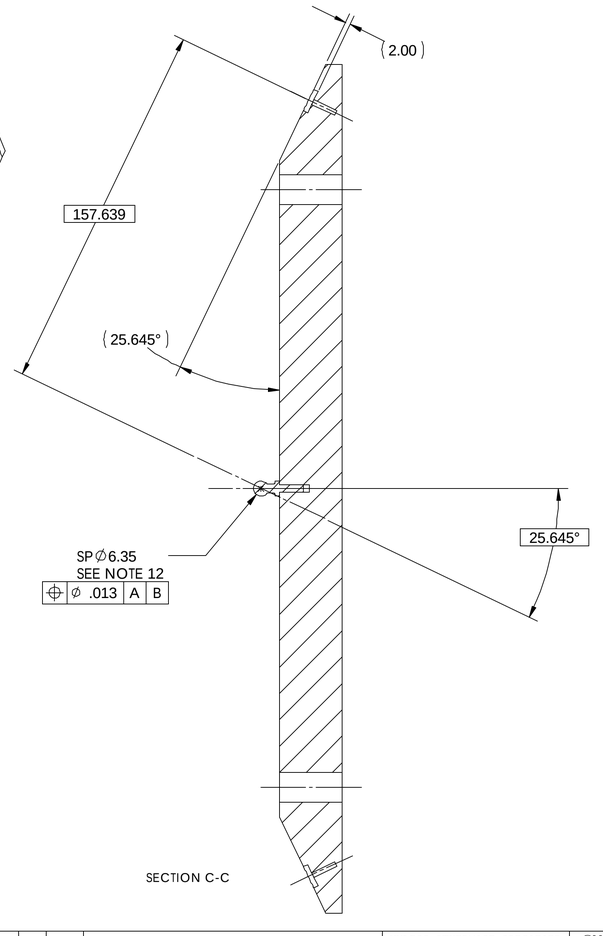
MICROFILMED:	DWG. TYPE	SHOWN ON	SCALE:	DO NOT SCALE PRINTS
	PART	21F746	1:1.25	SHEET 1 OF 2
PATENT CLEAR:	DESIGN ACCT. NO.	CATEGORY CIDE	DWG. NO.	SIZE / REV.
	P1AP-11	AP6250	21F748 4	-

DWG. NO.	SIZE	REV.	SH.
Sheet2		-	2

DESCRIPTION	MATERIAL	MAT. LOCATION



VIEW B-B
(SEE SHT 1)



SECTION C-C

NOTES: UNLESS OTHERWISE SPECIFIED

1. ALL DIMENSIONS IN MILLIMETERS
2. DIMENSIONS AND TOLERANCING PER ASME Y14.5M-1994
3. SURFACE TEXTURE PER ANI/ASME B 46.1-1985
4. REMOVE ALL BURRS AND BREAK SHARP EDGES TO A MAXIMUM OF .38
5. ALL INSIDE CORNERS TO BE .38 RADIUS MAX
6. COUNTERSINK 82 DEGREES ALL TAPPED HOLES TO MAJOR DIAMETER
7. COUNTERSINK 82 DEGREES APPROXIMATELY .38 DEEP ALL DRILLED HOLES
8. PARTS TO BE THOROUGHLY CLEANED TO REMOVE ALL OIL, GREASE, DIRT AND CHIPS
9. ROOM TEMPERATURE DURING MACHINING TO BE RECORDED AND PROVIDED TO HYTEC; TOP AND BOTTOM PLATES TO BE MACHINED AT THE SAME TEMPERATURE (WITHIN 5 DEGREES F)
10. INSPECTION REPORTS TO BE PROVIDED TO LAWRENCE BERKELEY LABORATORY
11. HOLES ARE THRU HOLES, OR 3X DIA. DEEP WITH A SMALLER PILOT HOLE THRU
12. 6.35 DIA. TOOLING BALL PERMANENTLY INSTALLED

REV	DWG	CHK	ZONE	DATE	CHANGES

UNLESS OTHERWISE SPECIFIED

TOLERANCES: X.X ± 0.5 | FRAC. ± 1/64 | X.XX ± 0.25 | ANGLES ± 30' | X.XXX ± 0.013 | FINISH 1.6

DO NOT SCALE PRINT

THREADS ARE CLASS 2

CHAMFER ENDS OF ALL SCREW THREADS 30°

CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS

BREAK EDGES .016 MAX. ON MACHINED WORK

REMOVE BURRS, WELD SPLATTER & LOOSE SCALE

IN ACCORDANCE WITH ASME Y14.5m & B46.1

SHOP ORDERS

ACCT NO.	NO. REQD	SER NO.	
DEL TO		DATE ISSD	
SURFACE TREATMENT		DATE REQD	
IDEN METHOD	TAG		
PROJECT NUMBER	ATL-IP-ED-XXXX		
PROJECT NAME	US ATLAS SILICONE SUBSYSTEM		
DWG BY	W. K. MILLER	DATE	4/16/2002
CHK BY	BILL WILDS	DATE	4/16/2002
APR BY	E ANDERSSEN	DATE	4/16/2002

IN ATLAS SILICON SUBSYSTEM (ASSY)

ERNEST ORLANDO LAWRENCE
BERKELEY NATIONAL LABORATORY
UNIVERSITY OF CALIFORNIA - BERKELEY ÷

ATLAS PIXEL DETECTOR
ENDCONE BOND FIXTURE
TOP GRAPHITE PLATE

MICROFILMED:	DWG. TYPE	SHOWN ON	SCALE: 1:1.25	DO NOT SCALE PRINTS
	PART	21F746	SHEET 2 OF 2	

PATENT CLEAR:	DESIGN ACCT. NO.	CATEGORY CIDE	DWG. NO.	SIZE	REV.
	P1AP-11	AP6250	21F748 4		-