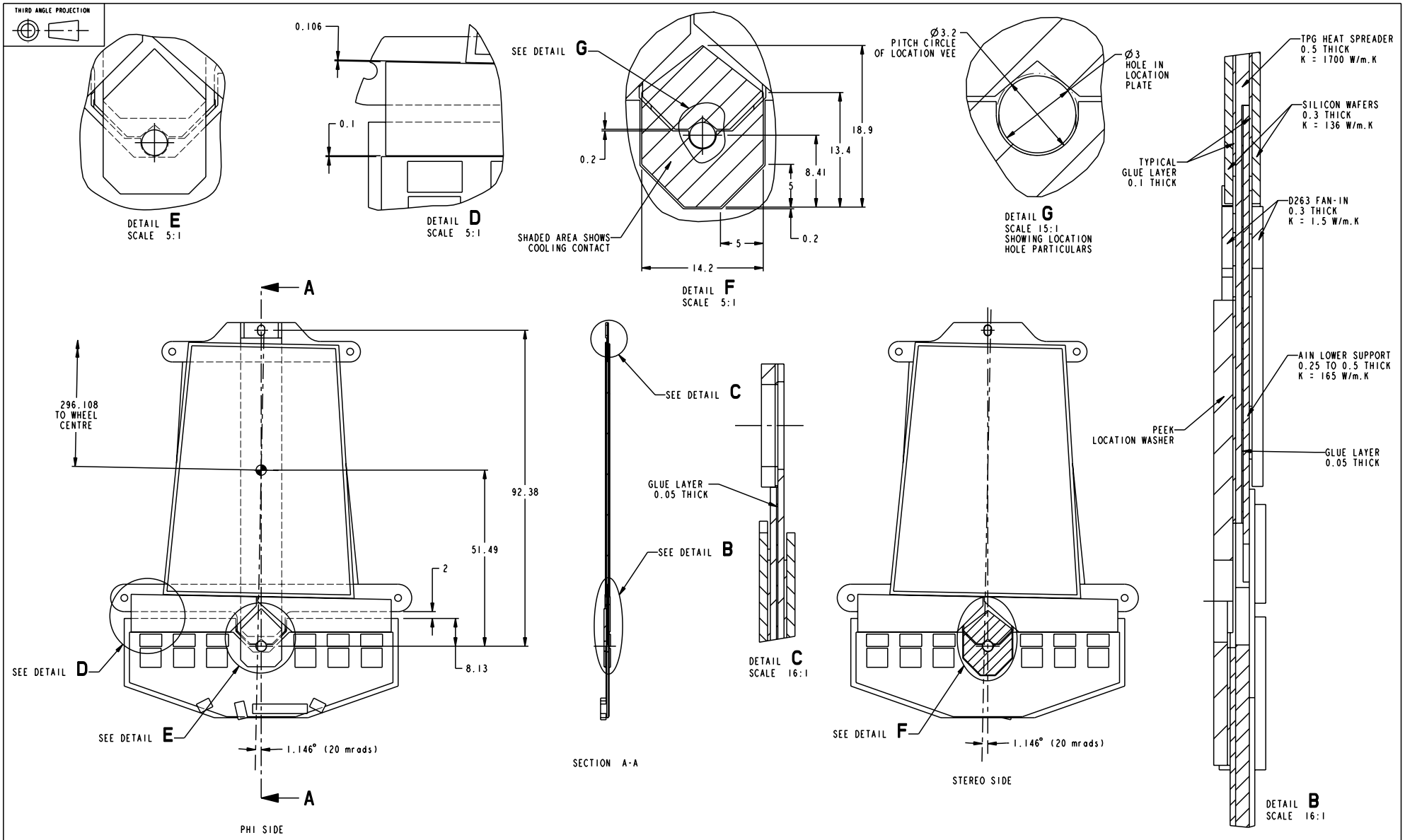


DETAIL OF INNER MODULE
40 OFF PER RING
F -1 PROTOTYPE MODULES ONLY

ISSUE	DATE	NAME	DESCRIPTION
B	27-Oct-98	P.SUTCLIFFE	HYBRID CHANGED IN LINE WITH ELECTRONIC DESIGN. LOCATION VEE CLARIFIED
A	25-Sep-98	P.SUTCLIFFE	FIRST ISSUE

MODIFICATIONS

UNLESS OTHERWISE SPECIFIED:-
ALL DIMENSIONS IN MILLIMETRES
SURFACE TEXTURE VALUES IN MICROMETRES
SURFACE TEXTURE TO BE ☐ ✓
MACHINE ALL OVER OR WHERE MARKED ✓
REMOVE BURRS AND BREAK SHARP EDGES

METRIC SCREW THREADS TO BS3643 CLASS 6H/6g
TOLERANCES UNLESS OTHERWISE SPECIFIED
MACHINED DIMS ±
ANGULAR ±
DO NOT SCALE

DRAWING PRACTICE AND TOLERANCE INTERPRETATION TO BS308

MATERIAL	SEE CHART
SPEC	SEE PARTS
TREATMENT	SEE PARTS
FINISH	SEE PARTS

WELDING SYMBOLS TO BS 499

DRAWN	P.SUTCLIFFE
DATE	25-Sep-98
CHECKED	P.SUTCLIFFE
APPROVED	P.SUTCLIFFE

THE UNIVERSITY OF LIVERPOOL
DEPARTMENT OF PHYSICS

PROJECT: ATLAS FORWARD TRACKER

TITLE: INNER MODULE, BeO/AlN/TPG VERS.

DRAWING NUMBER: NP27-03-121

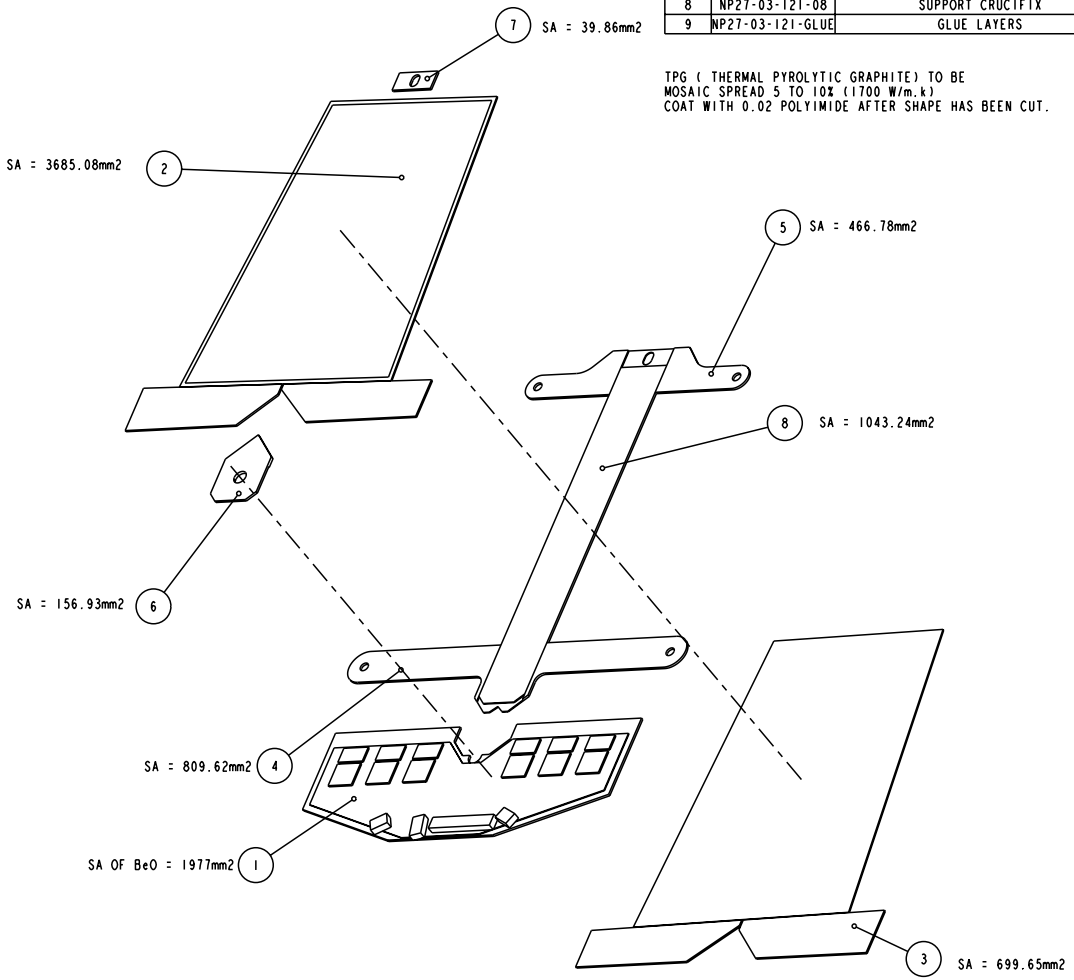
ARRGT. DRAWING: NP27-03-90

SHEET 1 OF 3 SHEETS SCALE:-2:1 A1

THIRD ANGLE PROJECTION

ITEM	PART/CAD No	DWG TITLE	MATERIAL	MAT SPEC	REMARK	QTY
1	NP27-03-116	HYBRID BASE ASSEMBLY - TPG/BeO	SEE PARTS	SEE PARTS	-	1
2	NP27-03-121-01	INNER SILICON WAFERS	SILICON	-	0.3mm THICK	2
3	NP27-03-121-02	STEREO/PHI FAN-IN	BOROSILICATE GLASS	D263	0.3mm THICK	2
4	NP27-03-121-03	LOWER SUPPORT	AIN	-	0.5mm THICK	1
5	NP27-03-121-04	UPPER SUPPORT	AIN	-	0.5mm THICK	1
6	NP27-03-121-05	LOCATION PAD	PEEK	-	-	1
7	NP27-03-121-07	OUTER LOCATOR	PEEK	-	0.5mm THICK	1
8	NP27-03-121-08	SUPPORT CRUCIFIX	TPG	SEE NOTE	0.5mm THICK	1
9	NP27-03-121-GLUE	GLUE LAYERS	?	?	0.1 mm OR 0.05mm THICK	1

TPG (THERMAL PYROLYTIC GRAPHITE) TO BE
MOSAIC SPREAD 5 TO 10% (1700 W/m.k)
COAT WITH 0.02 POLYIMIDE AFTER SHAPE HAS BEEN CUT.



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DRAWING PRACTICE AND TOLERANCE INTERPRETATION TO BS308
WELDING SYMBOLS TO BS 499

MATERIAL	SEE CHART	DRAWN	P.SUTCLIFFE
SPEC	SEE PARTS	DATE	25-Sep-98
TREATMENT	SEE PARTS	CHECKED	P.SUTCLIFFE
FINISH	SEE PARTS	APPROVED	P.SUTCLIFFE

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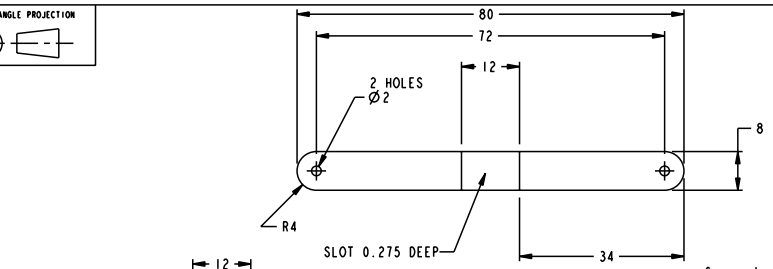
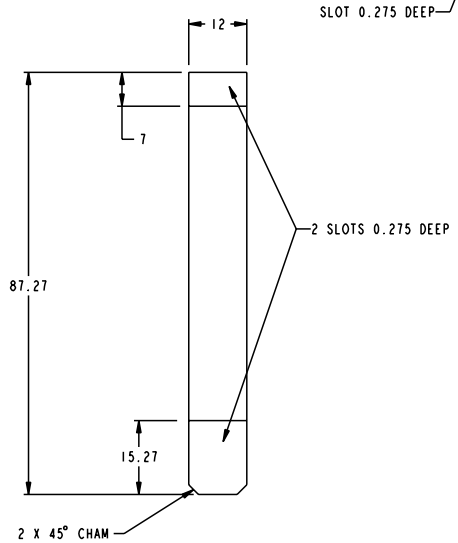
DRAWING NUMBER: NP27-03-121

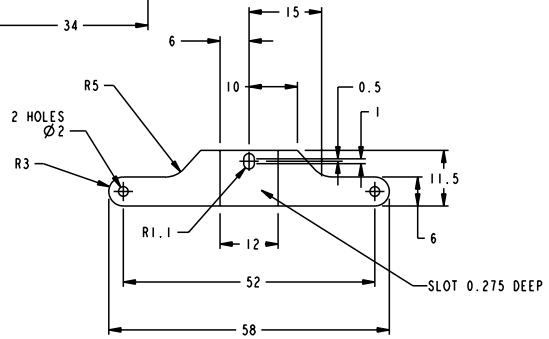
ARRGT. DRAWING: NP27-03-90

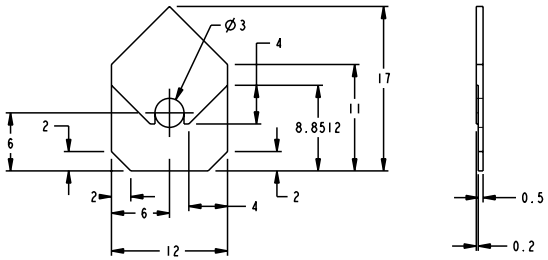
SHEET 2 OF 3 SHEETS | SCALE:-2:1 | A1

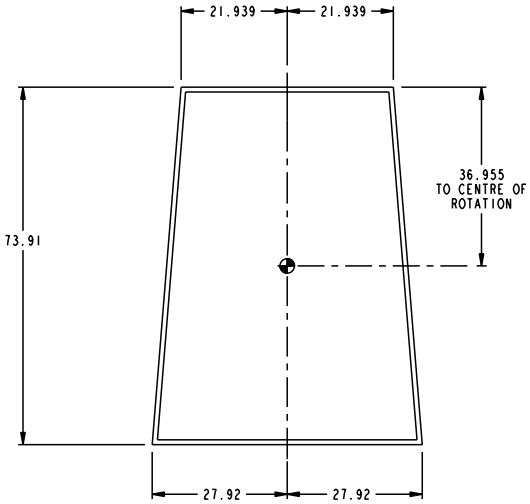
THIRD ANGLE PROJECTION



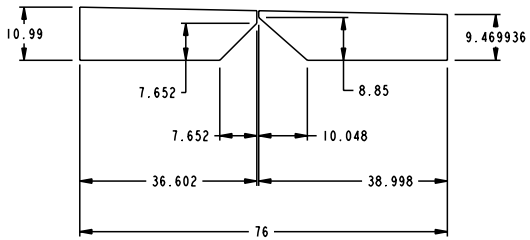


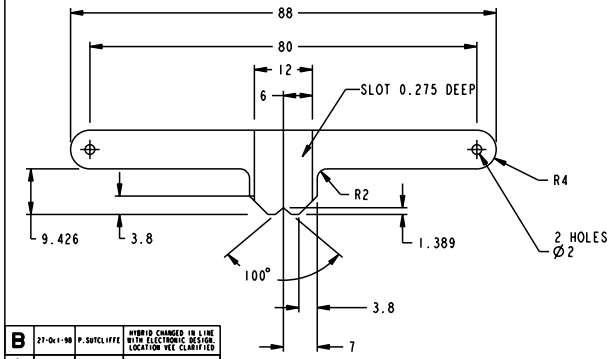


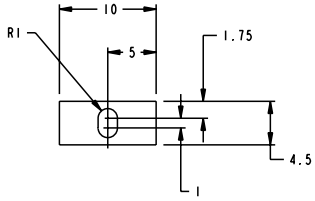




SCALE 4:1







SCALE 4:1

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SHEET 3 OF 3 SHEETS SCALE:-2:1 A1