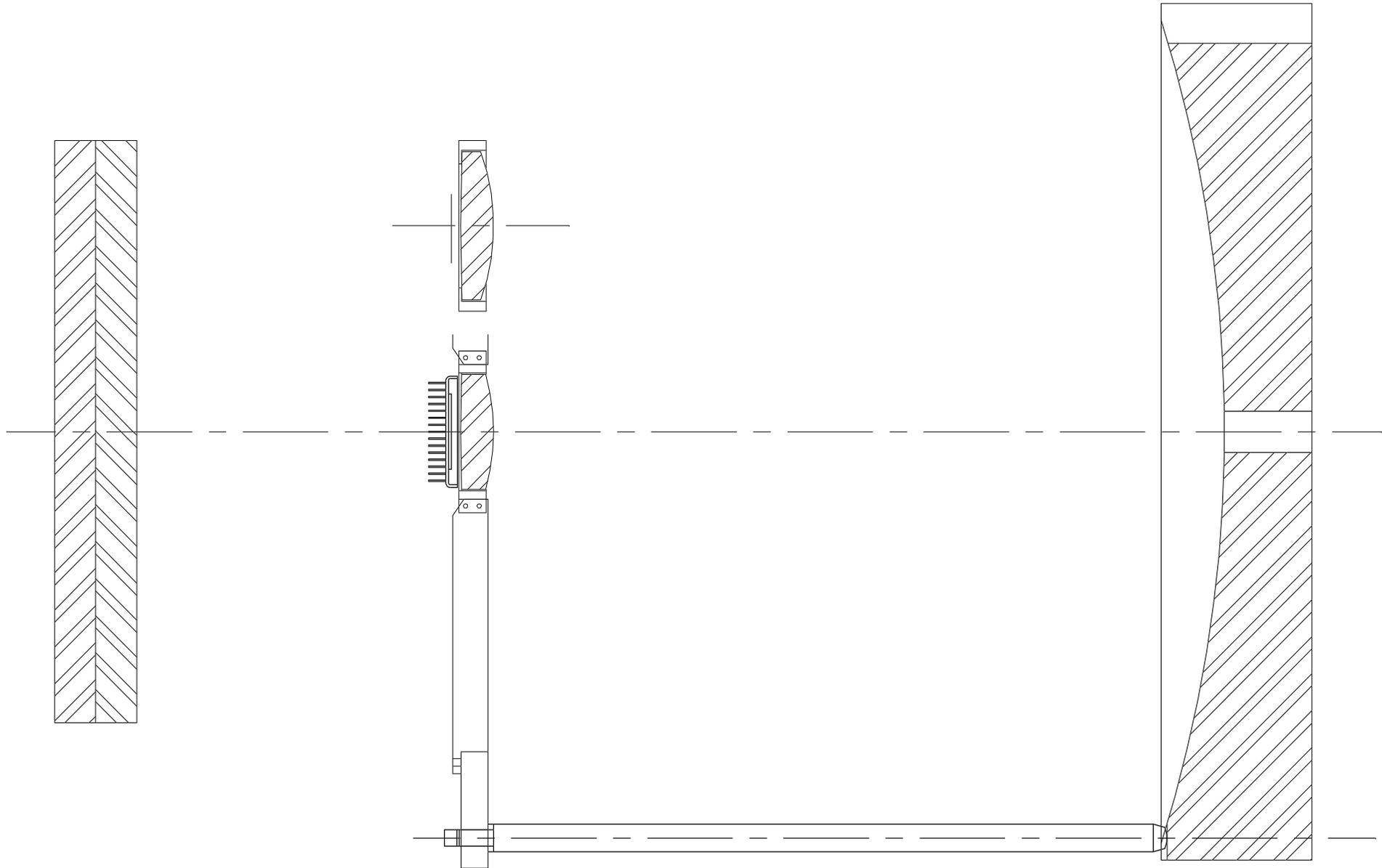


WYFFOS CAMERA — DIMENSIONS FOR INVAR RODS

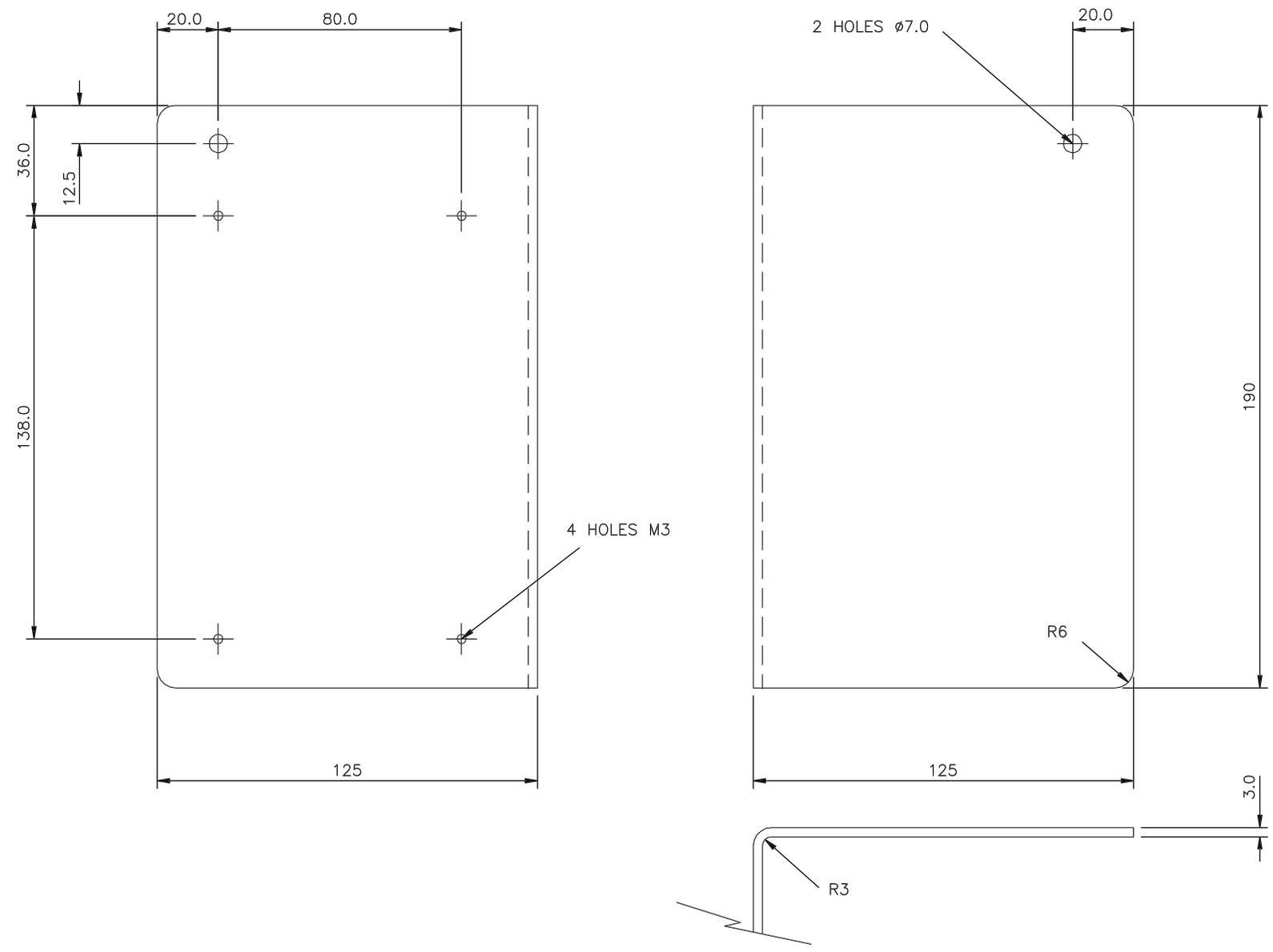
BL/600/ALIGN-1

OPTICAL DIMENSIONS AS MANUFACTURED



DRG NO.
BL/693

DO NOT SCALE

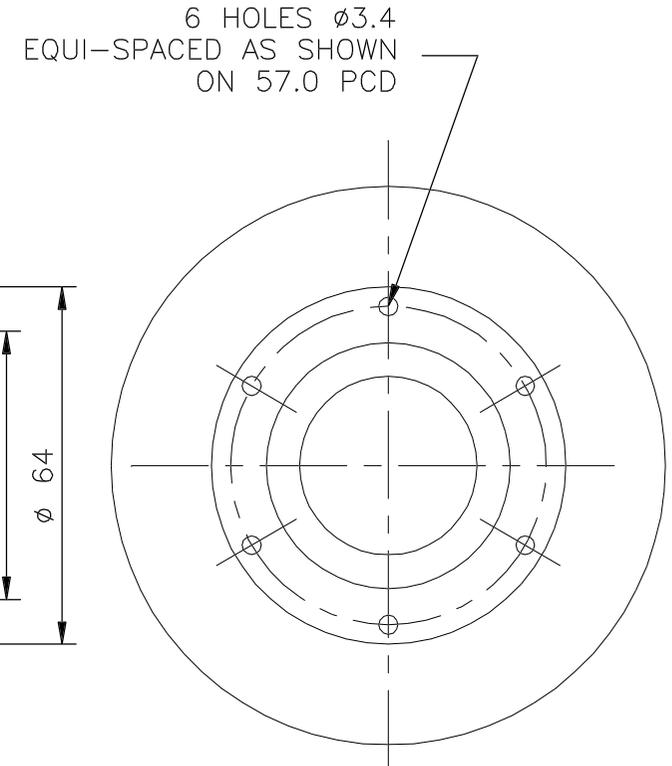
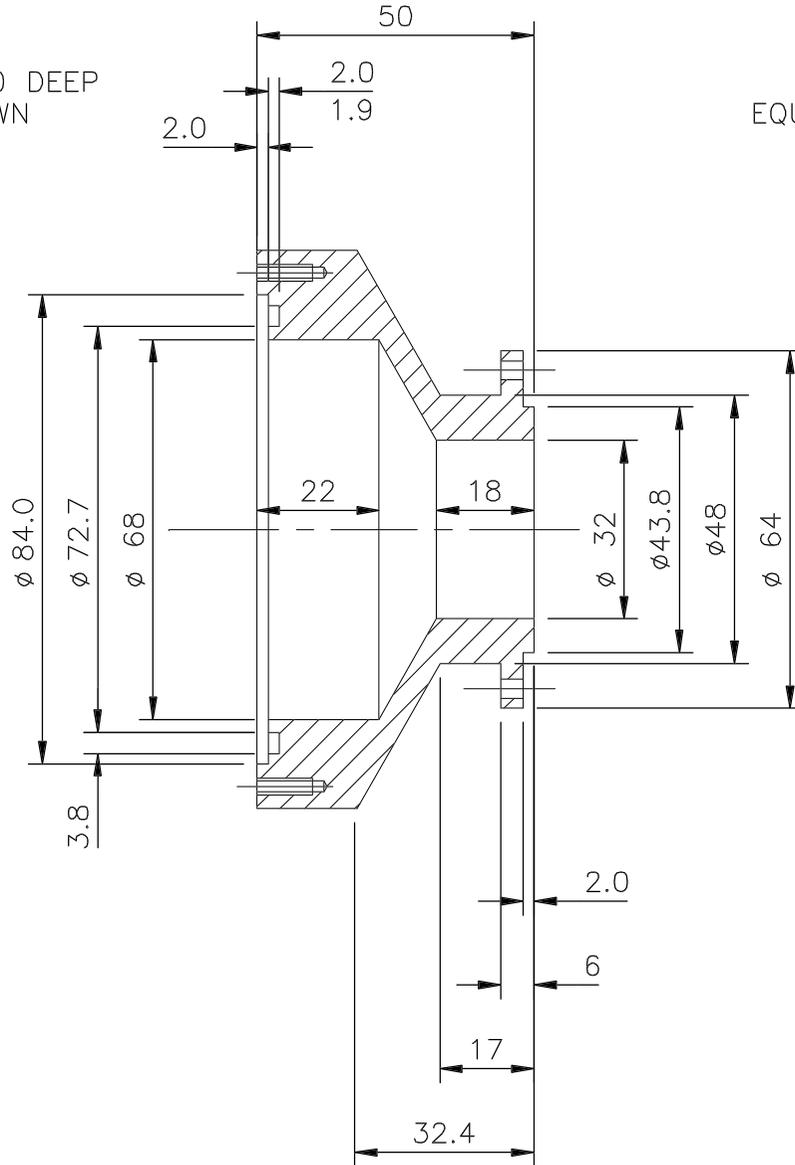
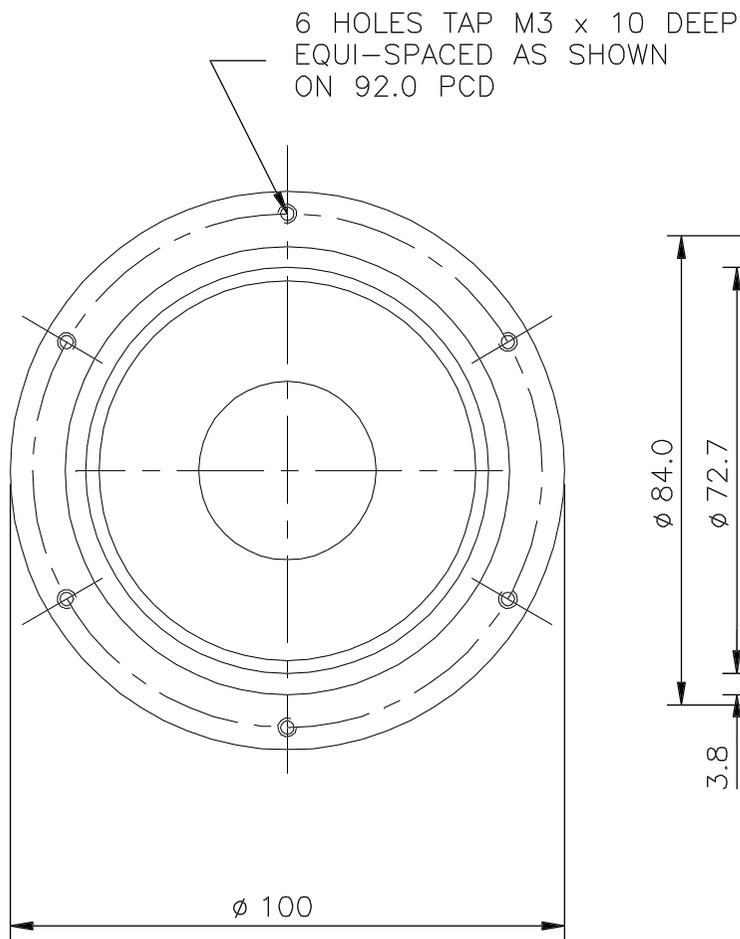


				TOLERANCES (UNLESS OTHERWISE STATED)	MATERIAL	THIRD ANGLE PROJECTION	DIMS IN mm	ORIGINAL SCALE	1:1	ORIGINAL SHEET SIZE	A2	G.A. NO.	V/BL/600 SHT.4
				X ± 0.3	AL.ALLOY					TITLE	4.2 WYFFOS CAMERA PRE AMP BOX BRKT.	LOC'N.	BL SHT. 1
1		25/03/94	AJW	X.X ± 0.1	FINISH	NO. REQ'D PER ASS'Y	ROYAL GREENWICH OBSERVATORY			TO FIT ON THE SIDE OF THE CRYOSTAT		DRG NO.	BL/693
ISSUE	MOD. NO.	DATE	DRAWN BY	ANG. ±	BLK.ANODISE	1 OFF	MADINGLEY ROAD						
							CAMBRIDGE	CB3	0EZ				

DRG NO.
BL/694

DO NOT SCALE

REMOVE ALL SHARP EDGES



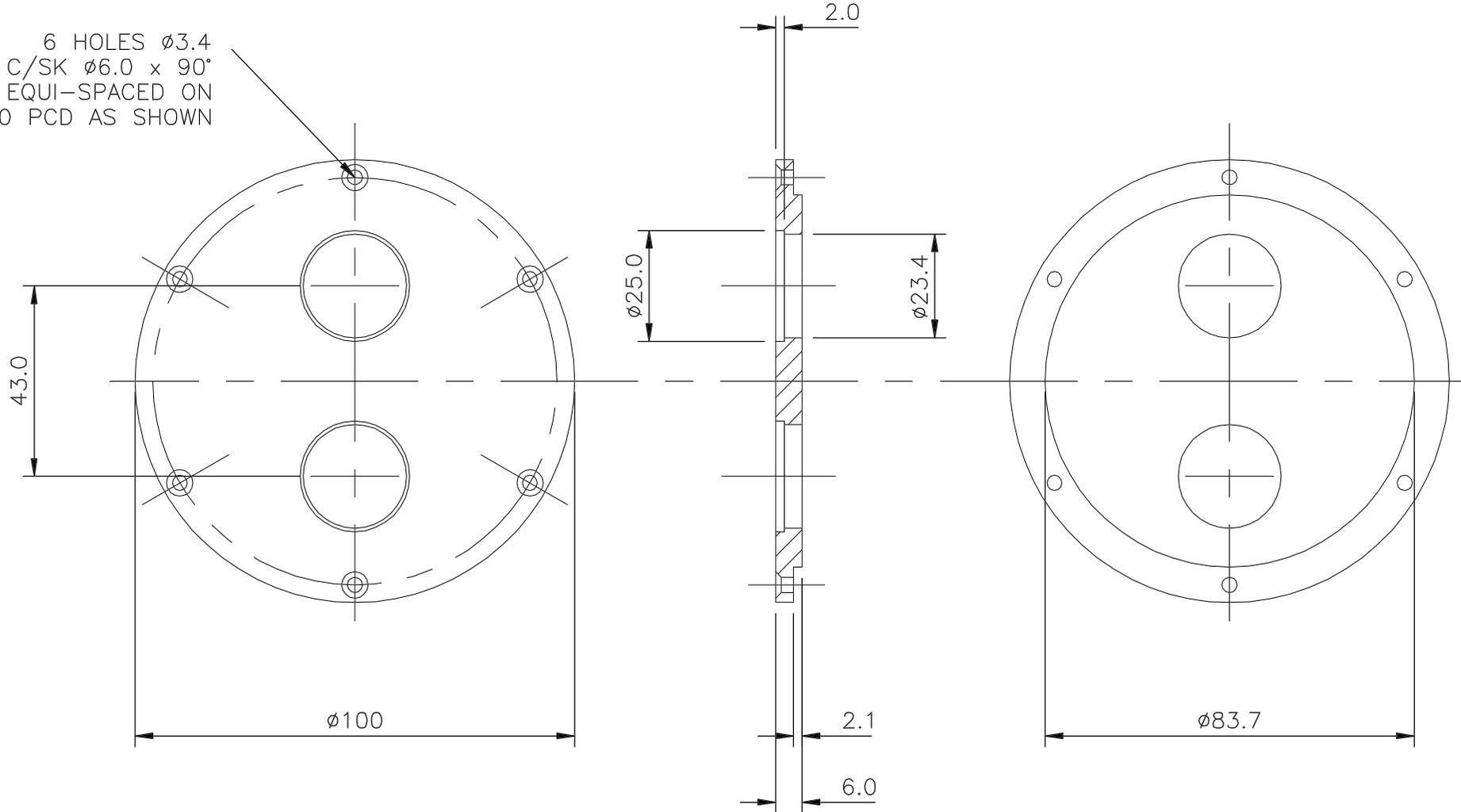
			TOLERANCES (UNLESS OTHERWISE STATED)	MATERIAL	THIRD ANGLE PROJECTION	DIMS IN mm	ORIGINAL SCALE 1:1	ORIGINAL SHEET SIZE A3	G.A. NO.	
			X \pm 0.3	ST.STL		ROYAL GREENWICH OBSERVATORY	TITLE	4.2 WYFFOS CAMERA - CONNECTOR PORT	V/BL/600	
1	13/06/94	AJW	X.X \pm 0.1	FINISH	No. REQ'D	MADINGLEY ROAD	LVDT VACUUM FEEDTHROUGH CONNECTOR			
ISSUE	DATE	DRAWN	ANG. \pm	CLEAN	1 OFF	CAMBRIDGE CB3 0EZ	DRG NO.	BL/694	SHT. 1	LOC'N BL

DRG NO.
BL/694

DO NOT SCALE

REMOVE ALL SHARP EDGES

6 HOLES $\phi 3.4$
C/SK $\phi 6.0 \times 90^\circ$
EQUI-SPACED ON
92.0 PCD AS SHOWN



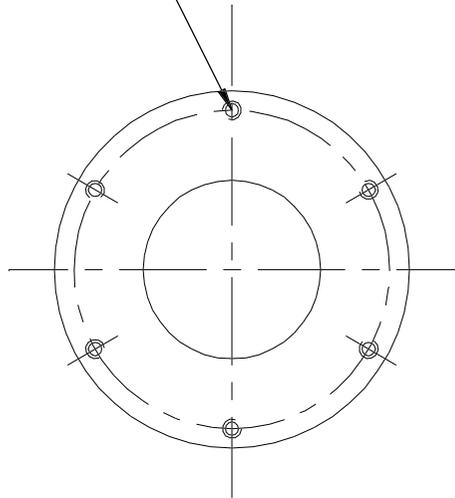
			TOLERANCES (UNLESS OTHERWISE STATED)	MATERIAL	THIRD ANGLE PROJECTION	DIMS IN mm	ORIGINAL SCALE 1:1	ORIGINAL SHEET SIZE A3	G.A. NO. V/BL/600
			X \pm 0.3	PLATE BRASS		ROYAL GREENWICH OBSERVATORY	TITLE 4.2 WYFFOS CAMERA - CONNECTOR PLATE		
1	13/06/94	AJW	X.X \pm 0.1	FINISH	No. REQ'D	MADINGLEY ROAD	LVDT VACUUM FEEDTHROUGH CONNECTOR		
ISSUE	DATE	DRAWN	ANG. \pm	CLEAN	1 OFF	CAMBRIDGE CB3 0EZ	DRG NO. BL/694	SHT. 2	LOC'N BL

DRG NO.
BL/694

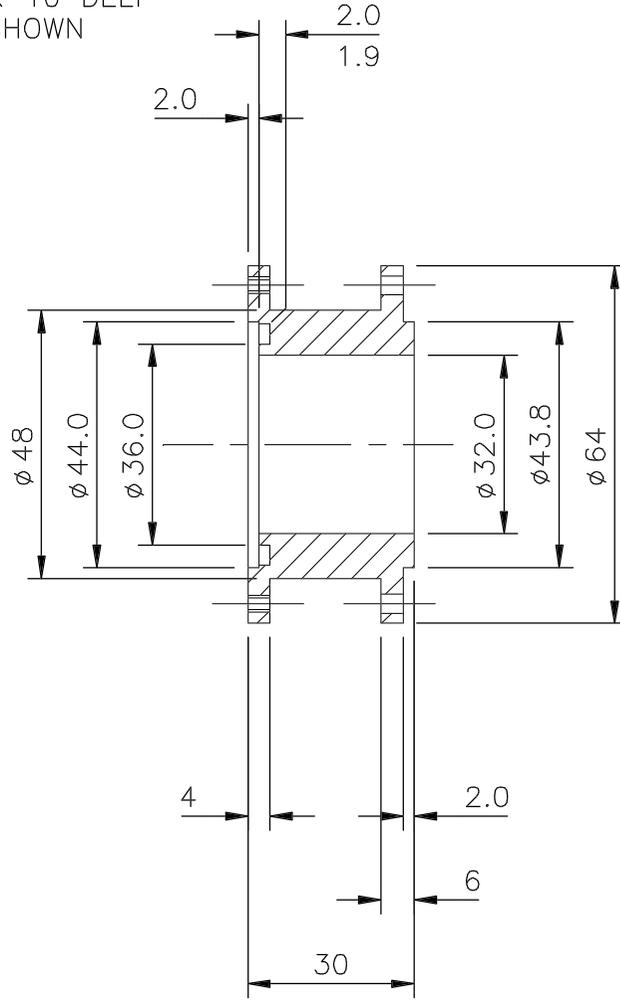
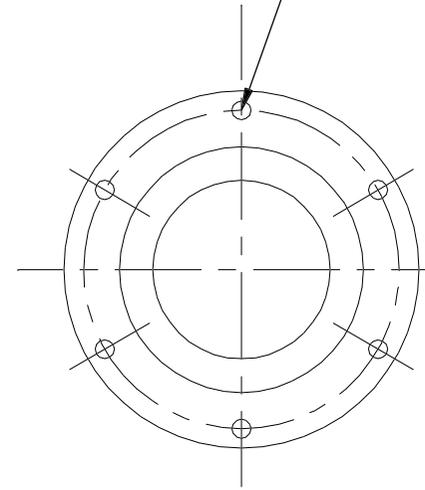
DO NOT SCALE

REMOVE ALL SHARP EDGES

6 HOLES TAP M3 x 10 DEEP
EQUI-SPACED AS SHOWN
ON 92.0 PCD

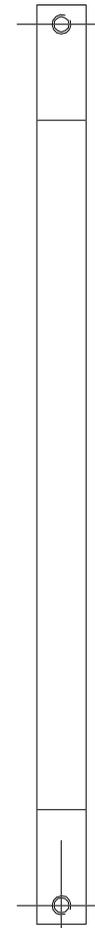
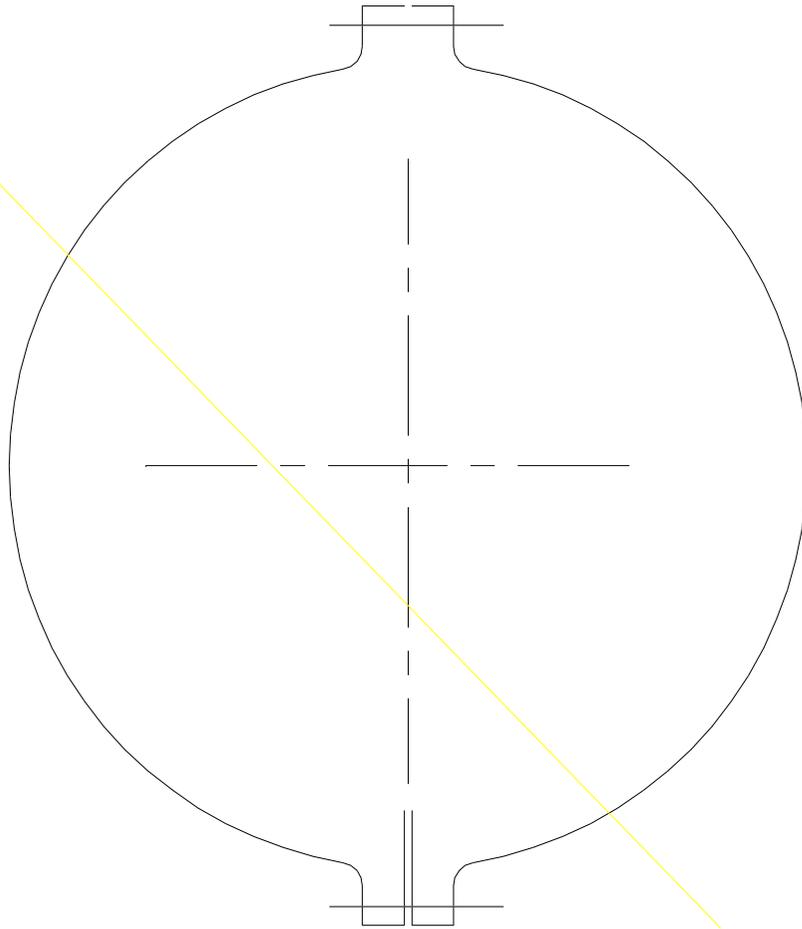


6 HOLES $\phi 3.4$
EQUI-SPACED AS SHOWN
ON 57.0 PCD



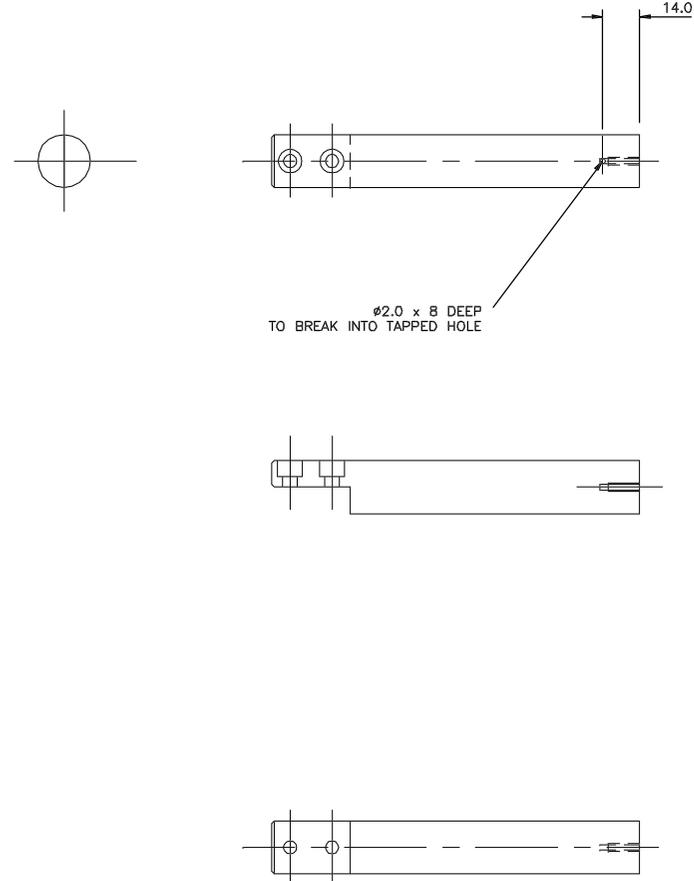
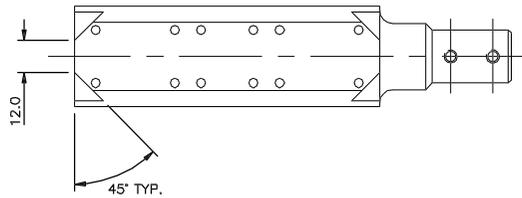
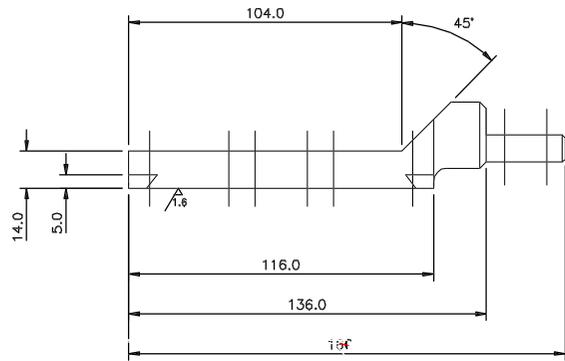
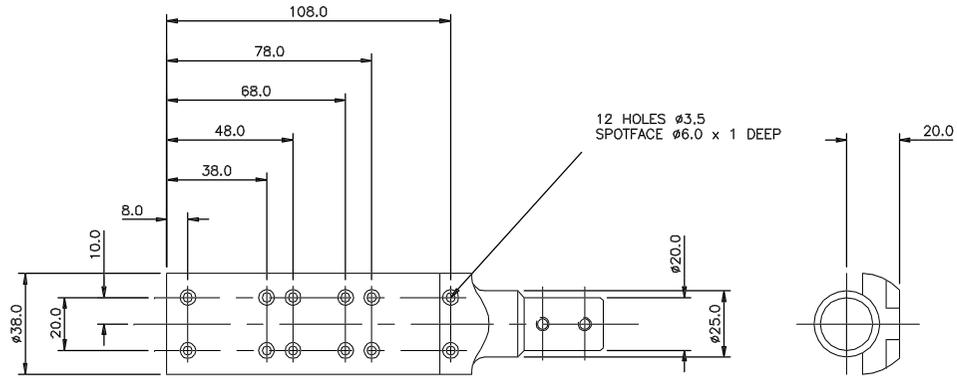
			TOLERANCES (UNLESS OTHERWISE STATED)	MATERIAL	THIRD ANGLE PROJECTION	DIMS IN mm	ORIGINAL SCALE 1:1	ORIGINAL SHEET SIZE A3	G.A. NO.	
			X \pm 0.3	ST.STL					V/BL/600	
1	14/06/94	AJW	X.X \pm 0.1	FINISH	No. REQ'D	ROYAL GREENWICH OBSERVATORY	TITLE	4.2 WYFFOS CAMERA - CONNECTOR PORT		
ISSUE	DATE	DRAWN	X.XX \pm	CLEAN	1 OFF	MADINGLEY ROAD	CCD CHIP AND HEATER VACUUM FEEDTHROUGH			
			ANG. \pm			CAMBRIDGE CB3 0EZ	DRG NO.	BL/694	SHT. 3	LOC'N BL

DO NOT



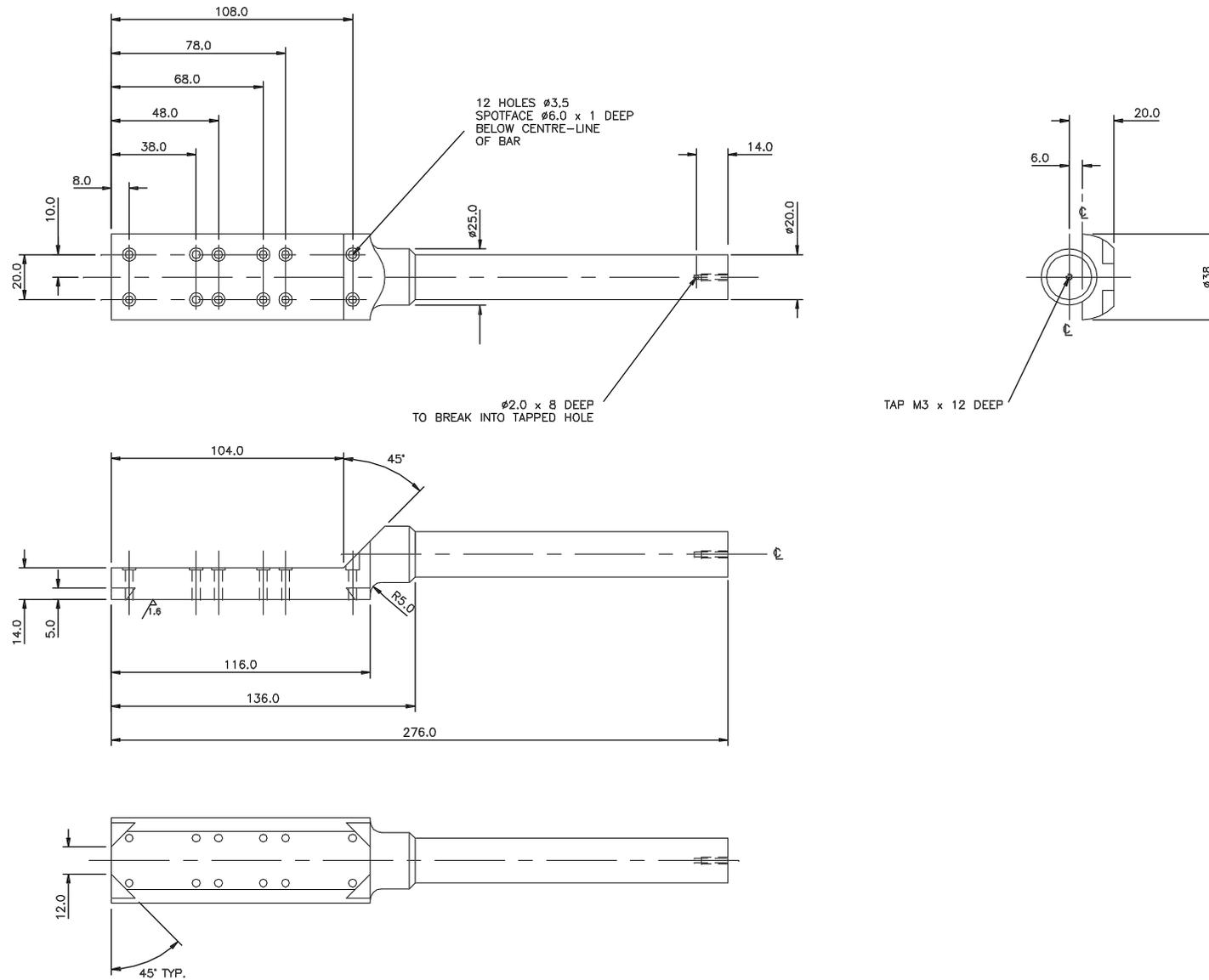
ROYAL GREENWICH OBSERVATORY
MADINGLEY ROAD
CAMBRIDGE CB3 0EZ

DO NOT SCALE
REMOVE ALL SHARP EDGES



							TOLERANCES (UNLESS OTHERWISE STATED)	MATERIAL	THIRD ANGLE PROJECTION	DIMS IN mm	ORIGINAL SCALE	ORIGINAL SHEET SIZE A1		G.A. NO.	W/BL/600	LOC'N. BL	
							X ± 0.1	OFHC COPPER			1:1	TITLE		DRG NO.			SHT. 1
ISSUE	MOD. NO.	DATE	DRAWN BY	ISSUE	MOD. NO.	DATE	FINISH	NO. REQ'D PER ASS'Y	ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD CAMBRIDGE CB3 0EZ			4.2M WYFFOS CAMERA – COLD FINGER REWORKED VERSION		BL/690			
				1		16/11/95	CLEAN	1 OFF									

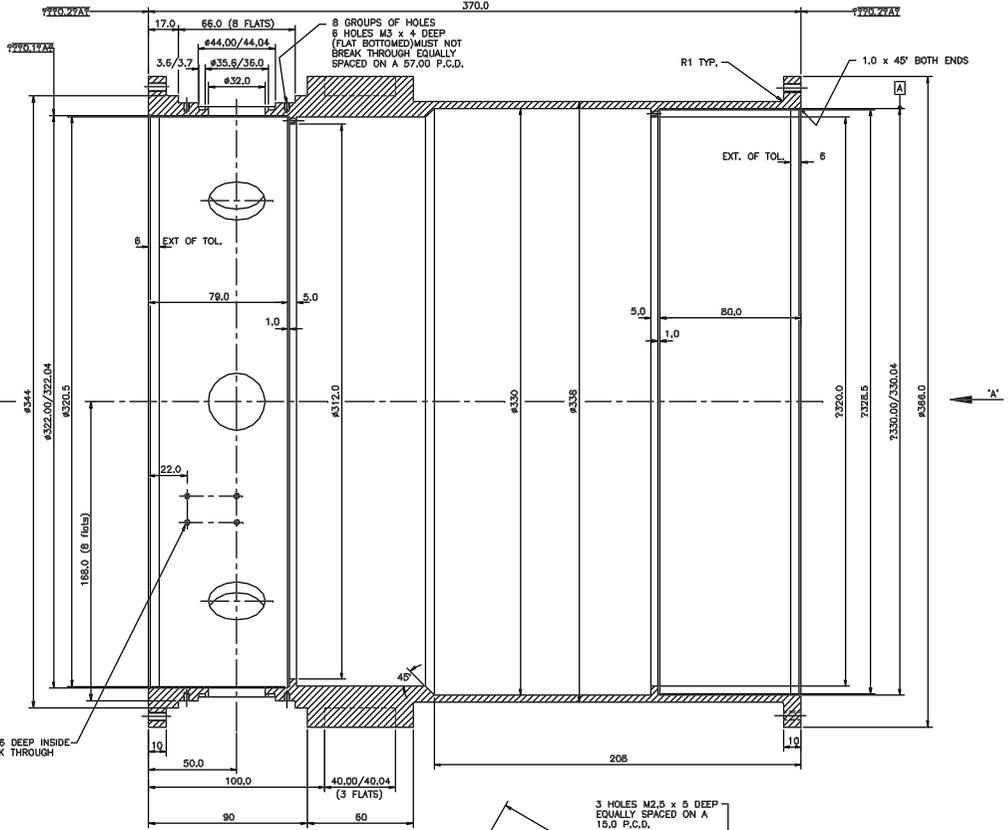
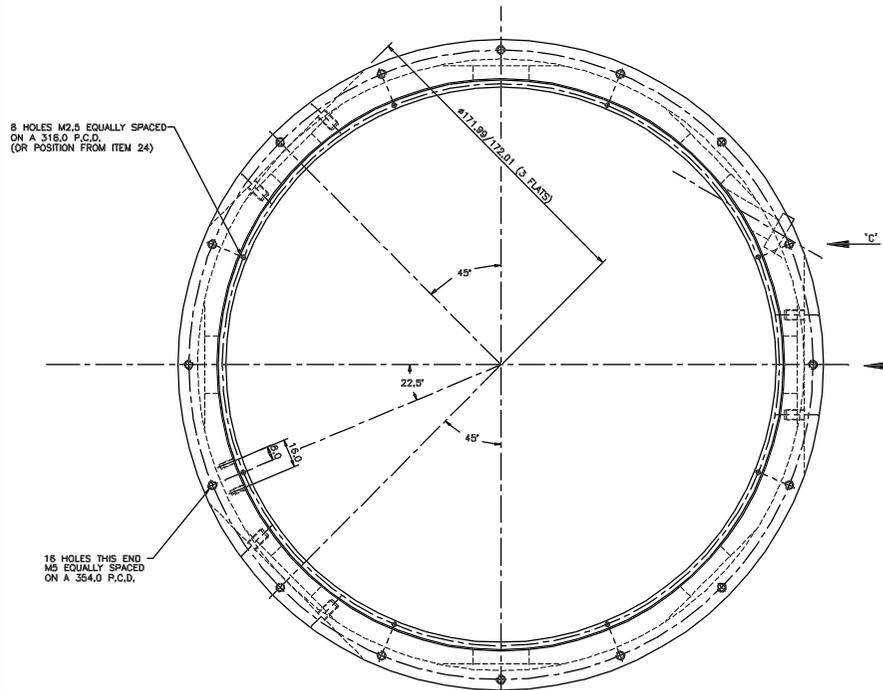
DO NOT SCALE
REMOVE ALL SHARP EDGES



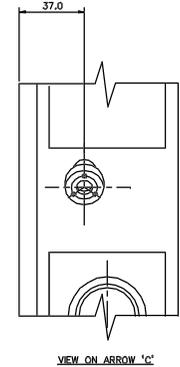
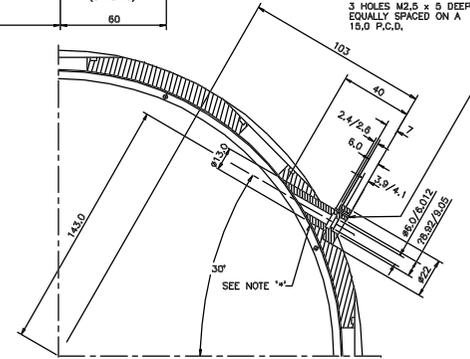
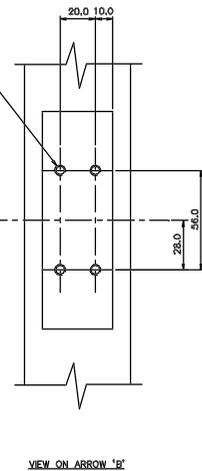
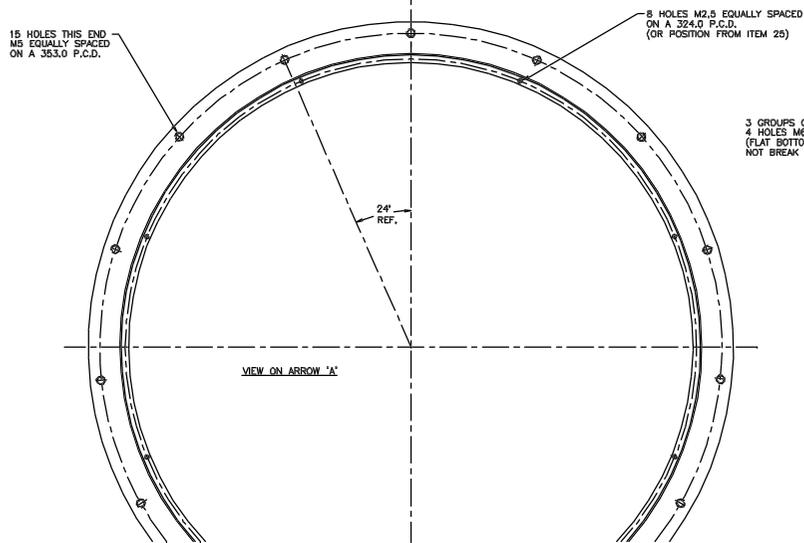
								TOLERANCES (UNLESS OTHERWISE STATED)	MATERIAL	THIRD ANGLE PROJECTION	DIMS IN mm	ORIGINAL SCALE	1:1	ORIGINAL SHEET SIZE	A1	G.A. NO.	W/BL/600	LOC'N. BL	
								X ± 0.1	OFHC COPPER										
								X.X ± 0.1	FINISH 1.6/ ALL OVER	NO. REQ'D PER ASS'Y	ROYAL GREENWICH OBSERVATORY	TITLE	4.2M WYFFOS CAMERA – COLD FINGER			DRG NO.	BL/690	SHT.	1
ISSUE	MOD. NO.	DATE	DRAWN BY	ISSUE	MOD. NO.	DATE	DRAWN BY		1 OFF	MADINGLEY ROAD	REWORKED VERSION								

DRAWING NUMBER	No. OF SHEETS	GA ITEM No.	DRAWING TITLE OR COMPONENT NAME	No. OFF	MATERIAL STOCK OR ORDER No. AND DATE	REMARKS	ISSUE DATE	ISSUED TO	FINISH DATE	
V / BL / 800 A	1		GENERAL ASSEMBLY							
V / BL / 801 A	1	1	PLATEN	1						
W / BL / 802 A	1	2	PARKING PLATE	1						
/ /										
/ /										
W / BL / 603 A	1	5	CLAMP LEG	3						
/ / 604		6	CLAMP BUSH	3						
/ / 605		7	CLAMP	3						
/ / 608 A		8	KINEMATIC SEAT (CONE)	1						
W / BL / 610 A	1	9	KINEMATIC SEAT (VEE)	1						
/ / 611 A		10	KINEMATIC SEAT (FLAT)	1						
/ /										
/ /										
/ /										
/ /										
/ /										
/ /										
/ /										
/ /		20	SOC CAP SCREW M4 x 16	6						
/ /		21	SOC CAP SCREW M10 x 90	3						
/ /		22	COACH BOLT M10 x 40	3						
/ /		23	WASHER M10	6						
/ /		24	DOWEL ø4 x 15	3						
/ /		25	ROLL PIN ø3 x 10	3						
/ /		26	HEX NUT M10	3						
/ /										
/ /										
/ /										
/ /		30	COVER	1		AS REQUIRED				
/ /										
/ /										
/ /										
/ /										
/ /										
/ /										
/ /										
/ /										
JOB TITLE					ASS'Y DRG No.		SHEET No.		DRAWN BY	
PLATEN FOR WYFFOS CAMERA					V/BL/800 ISSUE A		1 OF 1		PROMECH	
ROYAL GREENWICH OBSERVATORY, MADINGLEY ROAD, CAMBRIDGE							DATE		7/4/92	

REMOVE ALL SHARP EDGES



4 HOLES M3 x 6 DEEP INSIDE MUST NOT BREAK THROUGH OUTSIDE WALL

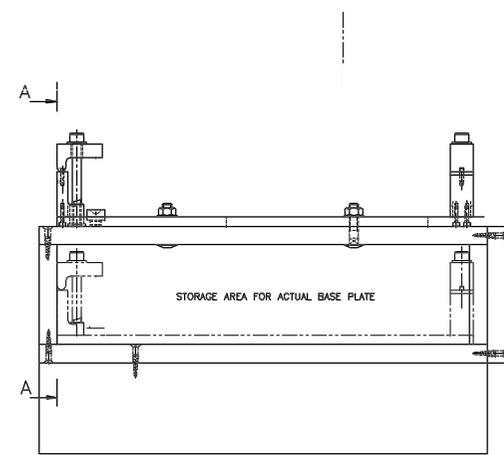
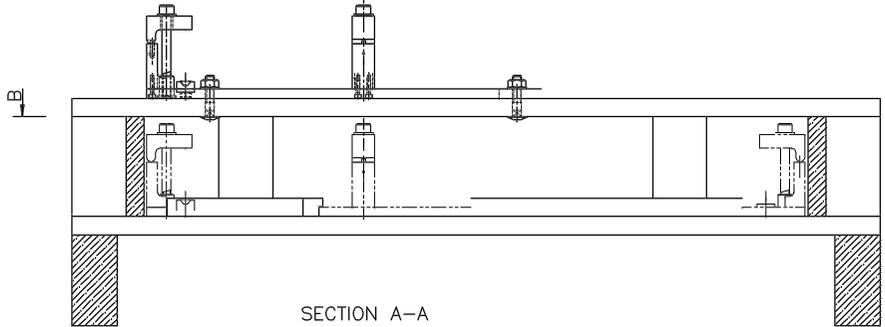
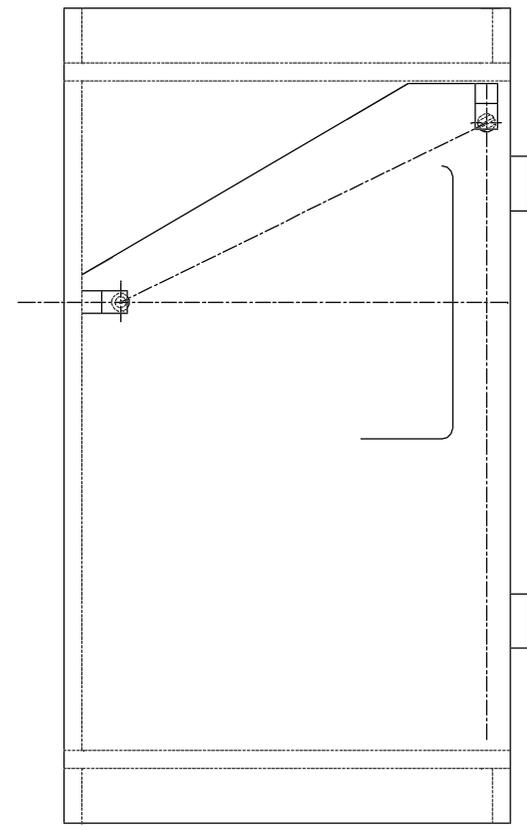
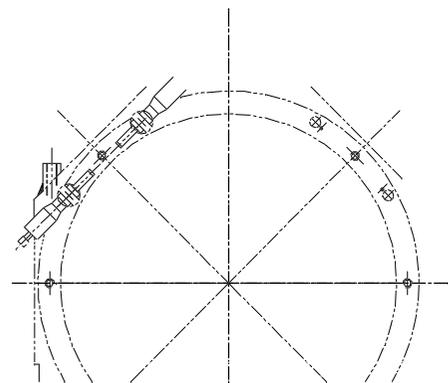


NOTES 1
MAY BE FABRICATED AS REQUIRED—CONSULT R.G.O.(D.G.)
STRESS RELIEVE BEFORE MACHINING AND AFTER FABRICATION TO 1050°C FOR 1-2 HOURS.
LEAK TEST—MAXIMUM PERMISSIBLE TOTAL LEAK RATE ON VESSEL TO BE 10⁻¹¹ m.bar.l. sec⁻¹
* WELD PREPARATIONS TO SUIT VACUUM WELDING PROCESS.
MEASURED WEIGHT= Kg

							TOLERANCES (UNLESS OTHERWISE STATED)	MATERIAL	DIN IN MM	SCALE	THIRD ANGLE PROJECTION	G.A. NO.	
							X ±0.1						
							XX ±0.05						
							XXX ±0.02						
							ANG ±0.1						
ISSUE	MOD. NO.	DATE	DRAWN BY	ISSUE	MOD. NO.	DATE	DRAWN BY	ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD CAMBRIDGE CB3 0EZ			DETAILS	V/BL/617	

17				TITLE			
WYFFOS CAMERA BODY							
REVISION	DATE	BY	REASON	REVISION	DATE	BY	REASON

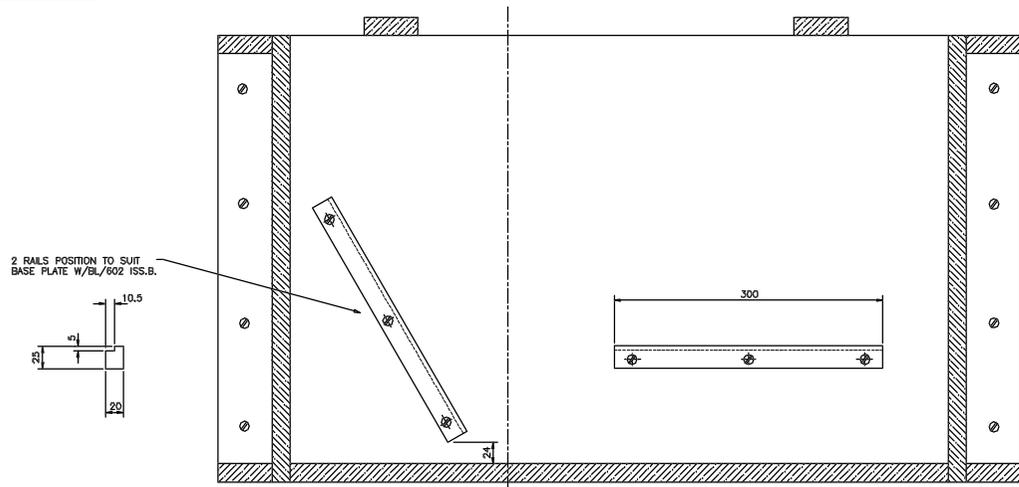
SECTION B-B



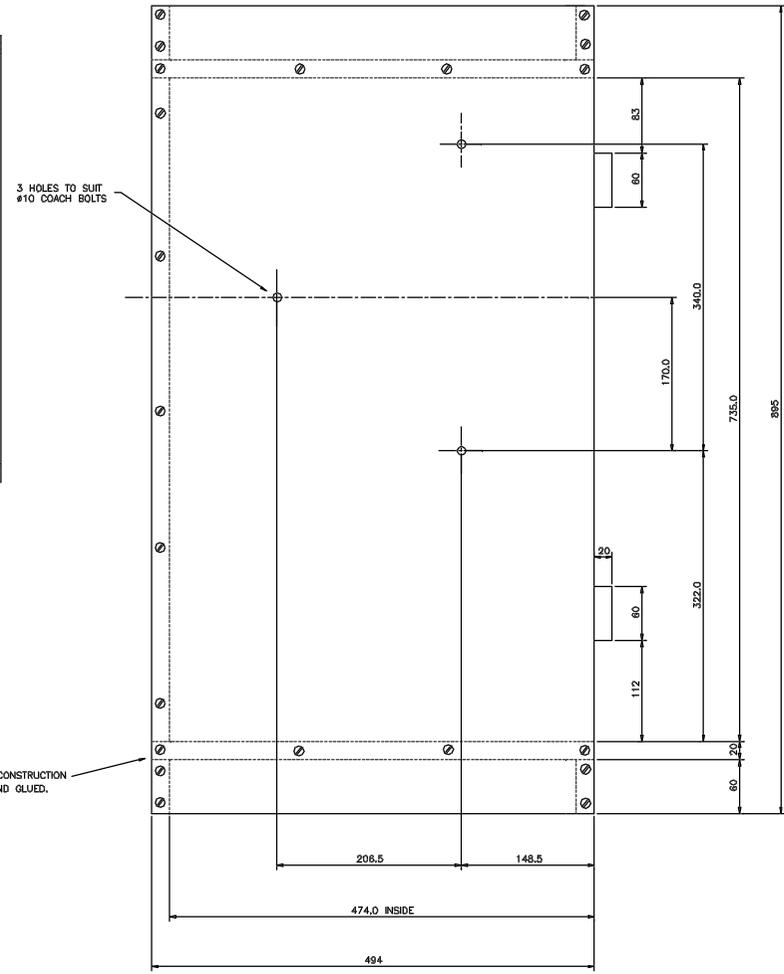
REF FOR CAMERA ASSY V/BL/600 ISS.8.

SECTION A-A

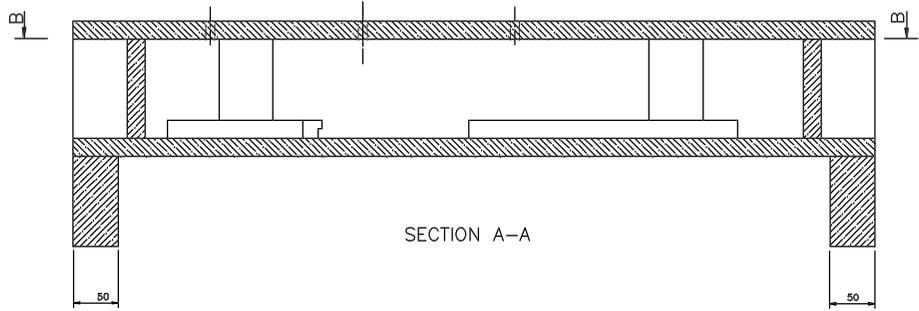
								TOLERANCES (UNLESS OTHERWISE STATED)		MATERIAL		DIM IN MM		SCALE 1/2 FULL		THIRD ANGLE PROJECTION		G.A. NO.	
								X ±0.1		FINISH		DRG NO.				TITLE		DRG NO.	
								X.X ±0.05		PAINT TO RGO SPEC		NO. REQ				ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD CAMBRIDGE CB3 0EZ		V/BL/800	
ISSUE	MOD. NO.	DATE	DRAWN BY	ISSUE	MOD. NO.	DATE	DRAWN BY			USED ON									



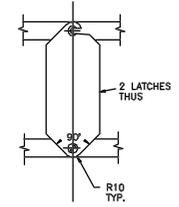
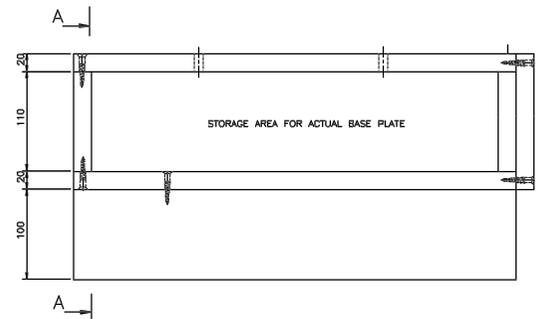
SECTION B-B



ALL WOOD CONSTRUCTION
SCREWED AND GLUED.



SECTION A-A

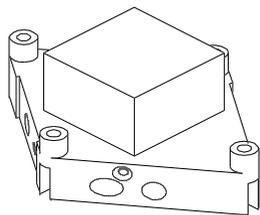
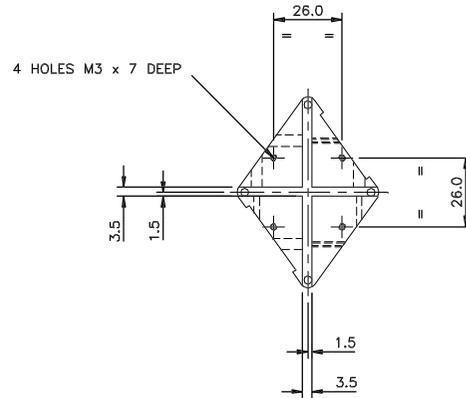
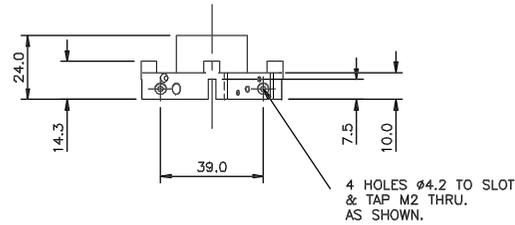
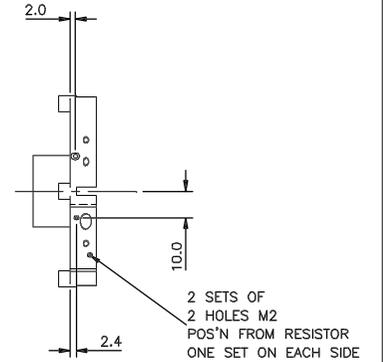
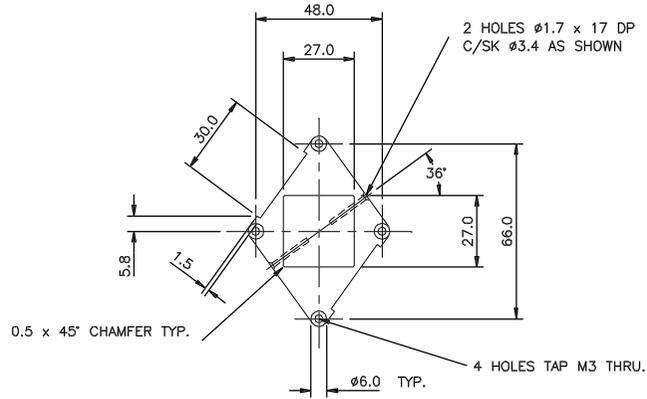
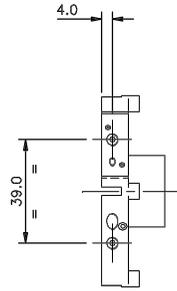


REF FOR CAMERA ASSY V/BL/600 ISS.C.

TOLERANCES (UNLESS OTHERWISE STATED)				MATERIAL SEE DRAWING				DIM IN MM		SCALE 1/2 FULL		TITLE		G.A. NO. V/BL/800 ISS A	
X	X	X	ANG					DRG NO.	NO REQ	ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD CAMBRIDGE CB3 0EZ		THIRD ANGLE PROJECTION		DRG NO.	
										DETAIL		V/BL/801		FILE VBL801A	
ISSUE	MOD. NO.	DATE	DRAWN BY	ISSUE	MOD. NO.	DATE	DRAWN BY								
				A		7/4/82	PROMECH								

1 PLATEN			
MATERIAL	SCALE	TOLERANCES	
HARD WOOD	1/2 FULL	X	#
RGD SPEC.		XX	#
		ANG	#
DRG NO.	ISS	R.G.O.	
V/BL/800	ISS A	V/BL/801 ISS A	

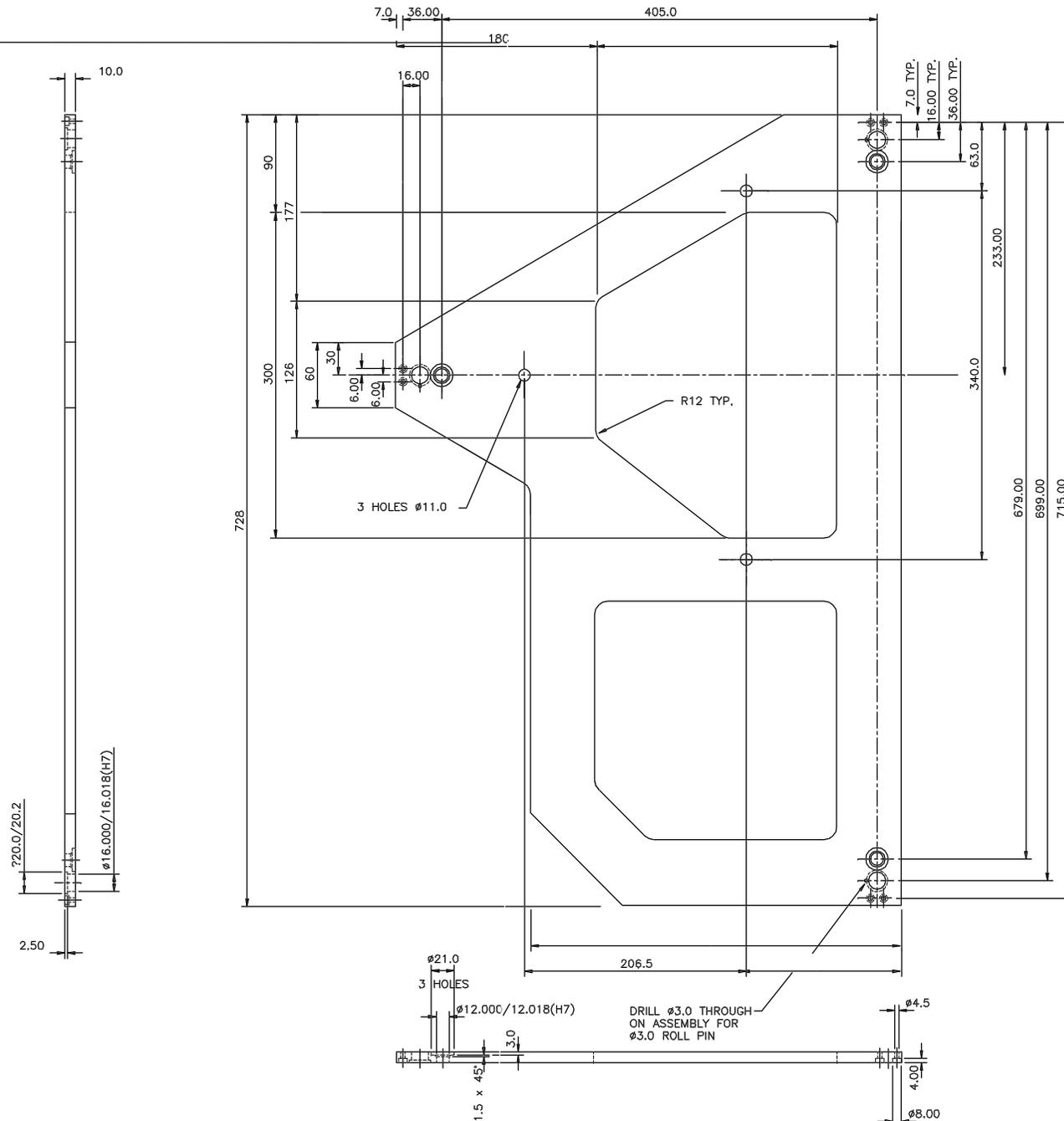
DO NOT SCALE



											TOLERANCES (UNLESS OTHERWISE STATED)		MATERIAL		THIRD ANGLE PROJECTION		DIMS IN mm		ORIGINAL SCALE		ORIGINAL SHEET SIZE A1		G.A. NO. V/BL/600SHT3	
											± 0.3		6082 AL.ALLOY								ROYAL GREENWICH OBSERVATORY		DRG NO. SHT. 1	
											± 0.1		FINISH		NO. REQ'D PER ASSY						MADINGLEY ROAD		TITLE	
											ANG. ±		MATT BLK.ANODISE		1 OFF		CAMBRIDGE CB3 0EZ				WYFFOS CAMERA CHIP CARRIER (TK1024)		BL/697	
ISSUE	MOD. NO.	DATE	DRAWN BY	ISSUE	MOD. NO.	DATE	DRAWN BY	ISSUE	MOD. NO.	DATE	DRAWN BY													
								2		05/11/93	AJW													

Drawing No.
W/BL/802

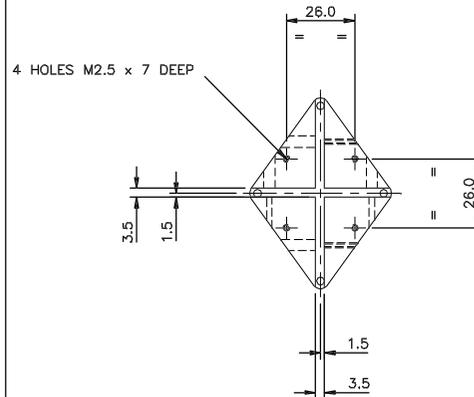
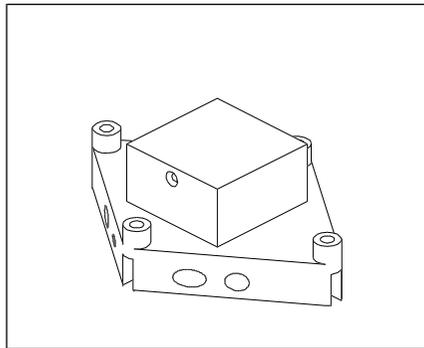
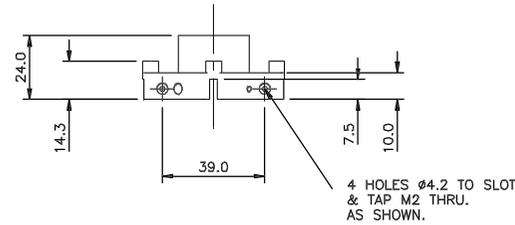
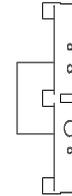
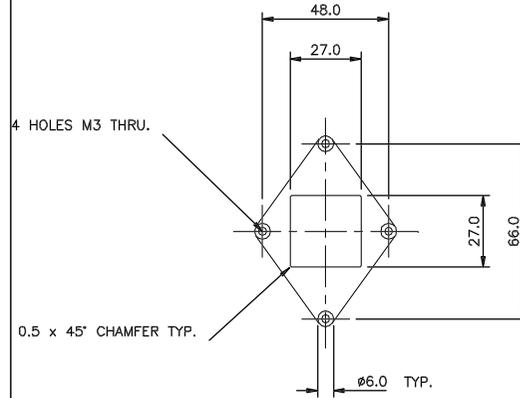
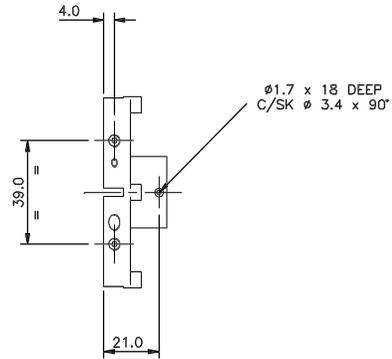
REMOVE ALL SHARP EDGES



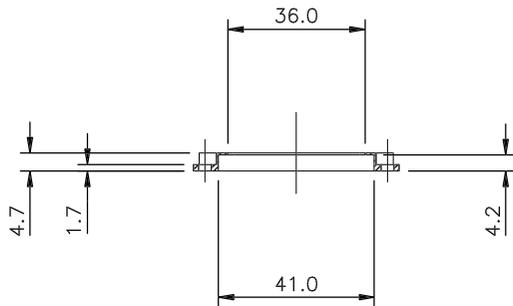
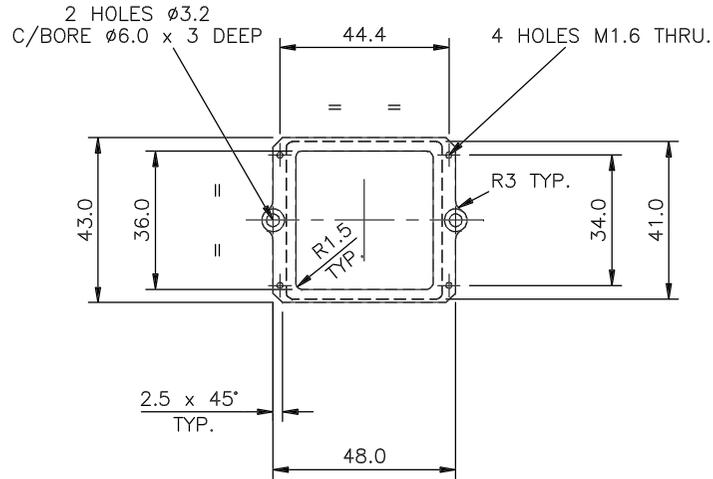
NOTE THIS DETAIL IS VERY SIMILAR TO W/BL/602 ISS.B.

2		TITLE	
PARKING PLATE			
MATERIAL	SCALE	TOLERANCES	
ALCOA PLT	1:2	x	0.5
FINISH	No. REQ. PER UNIT	xx	0.1
BLK ANODISED	1	xxx	
GA. No.	DRAWING No.		
V/BL/800 ISS A	R.G.O. W/BL/802 ISS A		

Tolerance (Unless otherwise stated)								Material		Dimns. in m.m.		Scale		THIRD ANGLE PROJECTION		GA No.	
X +/-								Finish		ROYAL GREENWICH OBSERVATORY		Title		Drawing No.			
XX +/-								Drg.No.		MADINGLEY ROAD		DETAIL		W/BL/802			
XXX +/-								No. Req.		CAMBRIDGE CB3 0EZ							
ANG. +/-								Used on									

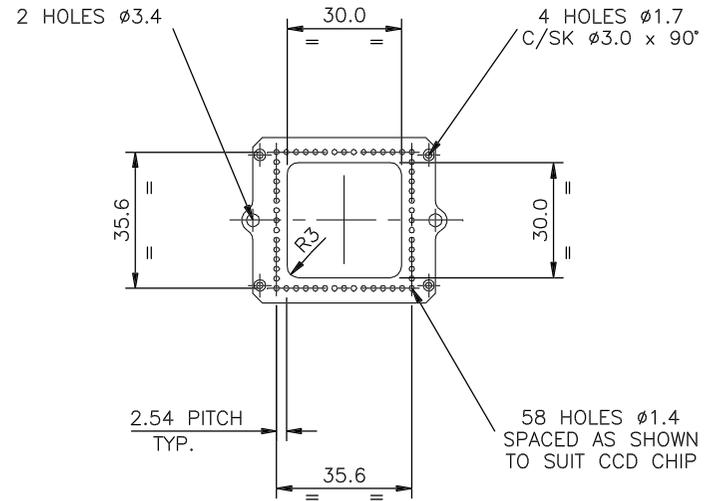


											TOLERANCES (UNLESS OTHERWISE STATED)		MATERIAL		THIRD ANGLE PROJECTION		DIMS IN mm		ORIGINAL SCALE		ORIGINAL SHEET SIZE A1		G.A. NO. V/BL/600SHT3	
											X ± 0.3		6082 AL.ALLOY								DRG NO.			
											X.X ± 0.1		FINISH		NO. REQ'D PER ASSY		ROYAL GREENWICH OBSERVATORY		TITLE		SHT. 1			
											X.XX ± 0.05		MATT BLK.ANODISE		1 OFF		MADINGLEY ROAD		WYFFOS CAMERA CHIP CARRIER (TK1024)		BL/697			
											ANG. ±						CAMBRIDGE CB3 0EZ							
ISSUE	MOD. NO.	DATE	DRAWN BY	ISSUE	MOD. NO.	DATE	DRAWN BY	ISSUE	MOD. NO.	DATE	DRAWN BY													
				1		05/11/93	AJW																	



TOP PLATE

MAT'L: 6082 AL.ALLOY
FINISH: MATT BLK.ANODISE



PROFILE TO BE THE SAME AS TOP PLATE

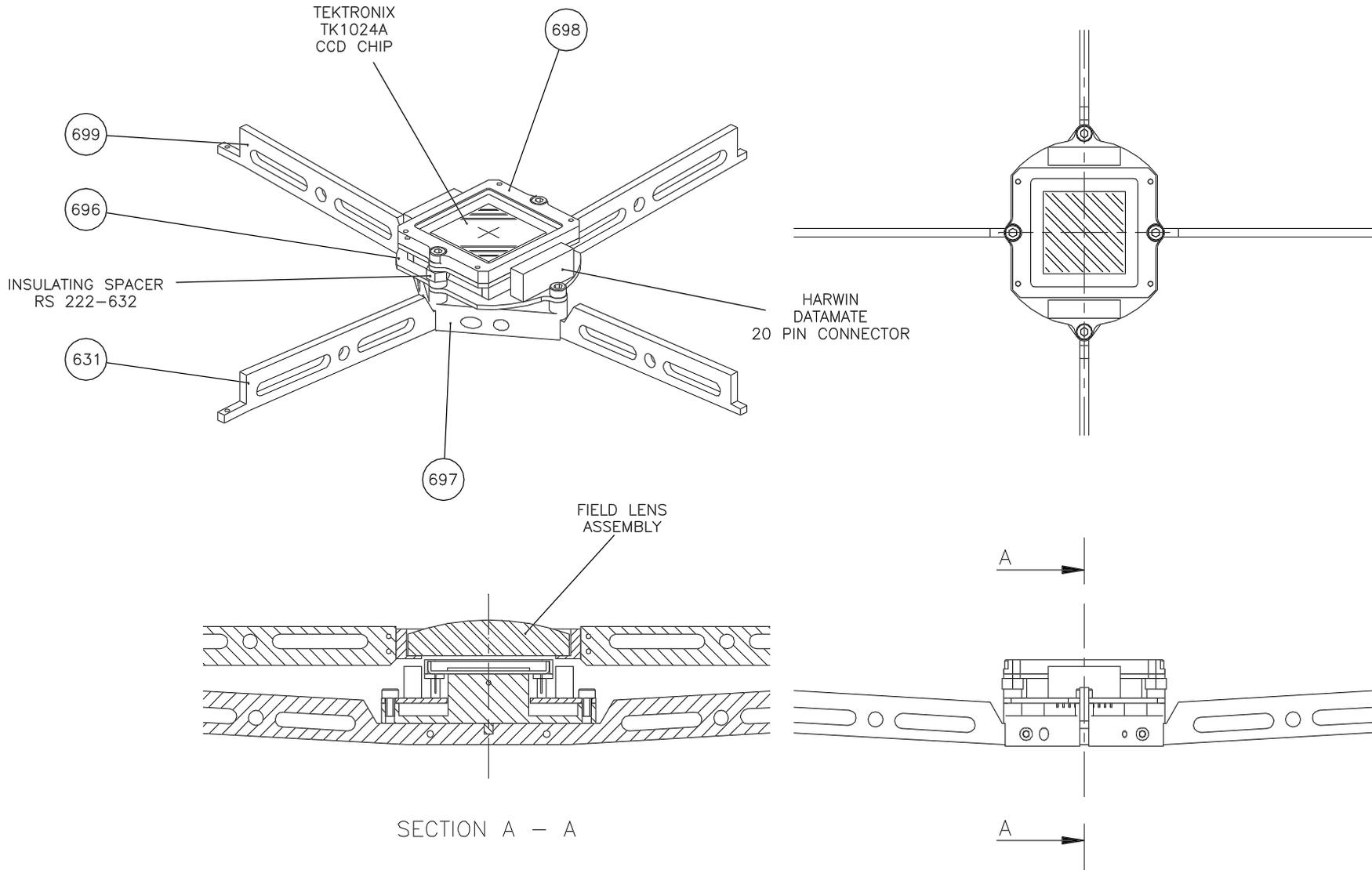
BOTTOM PLATE
MAT'L: G10/TUFNOL 1.6 THICK

				TOLERANCES (UNLESS OTHERWISE STATED) X ± 0.3 X.X ± 0.1 X.XX ± ANG. ±	MATERIAL SEE NOTE	THIRD ANGLE PROJECTION ⊕ ↙	DIMS IN mm	ORIGINAL SCALE 1:1	ORIGINAL SHEET SIZE A2	G.A. NO. V/BL/600SHT3
1		08/11/93	AJW		FINISH SEE NOTE	NO. REQ'D PER ASSY 1 OFF	ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD CAMBRIDGE CB3 0EZ		TITLE WYFFOS CAMERA CHIP RETAINER(TK1024A)	DRG NO. SHT. 1
ISSUE	MOD. NO.	DATE	DRAWN BY							BL/698

DRG NO.

BL/695

DO NOT SCALE



SECTION A - A

				TOLERANCES (UNLESS OTHERWISE STATED) X ± X.X ± X.XX ± ANG. ±	MATERIAL	THIRD ANGLE PROJECTION ⊕ ↯	DIMS IN mm	ORIGINAL SCALE 1:1	ORIGINAL SHEET SIZE A2	G.A. NO. V/BL/600SHT3
1		10/11/93	AJW		FINISH	NO. REQ'D PER ASSY 1 OFF	ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD CAMBRIDGE CB3 0EZ		TITLE WYFFOS CAMERA - CCD SUB ASSY TK1024	DRG NO. SHT. 1
ISSUE	MOD. NO.	DATE	DRAWN BY							BL/695