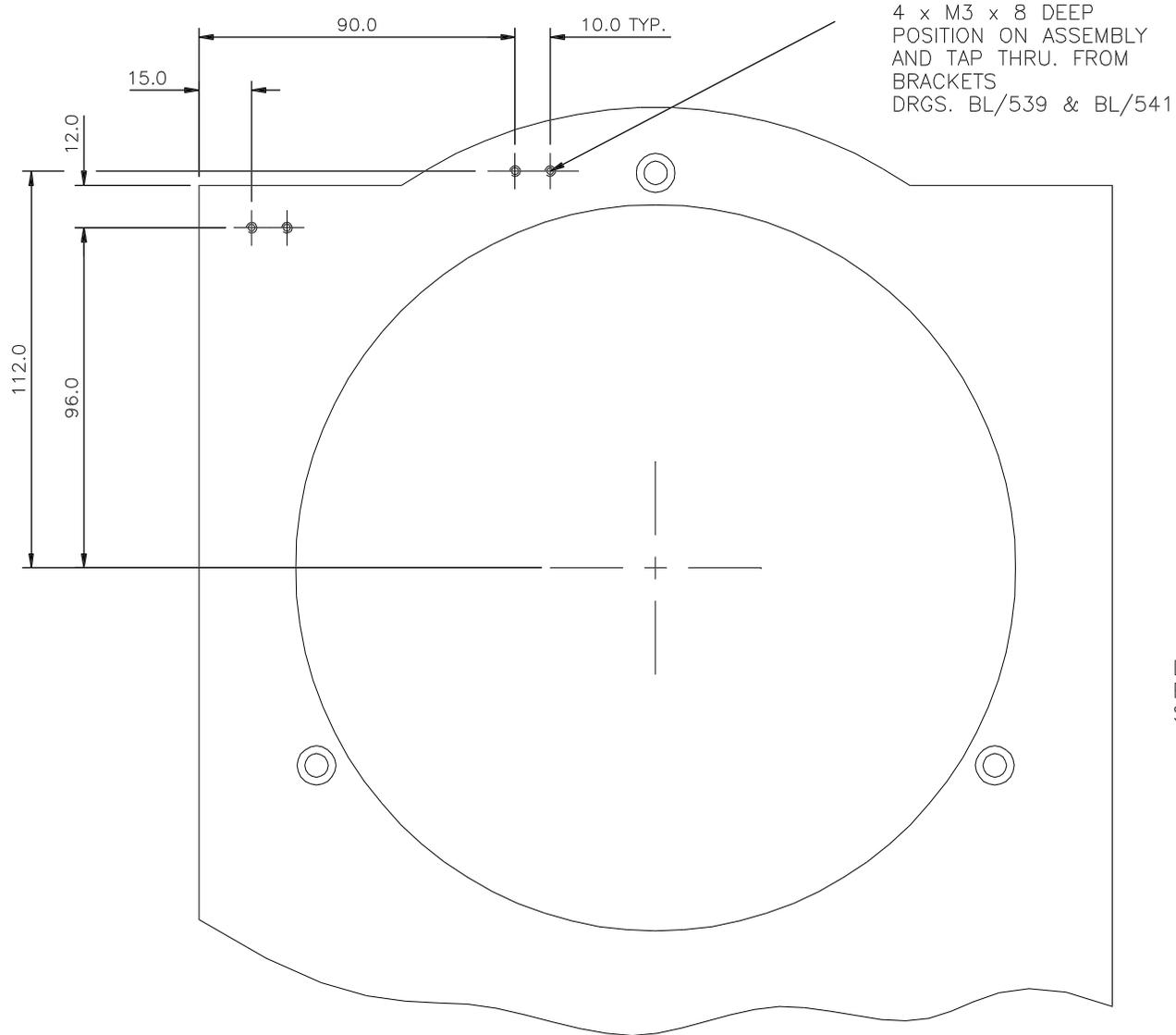


DRG NO.

BL/542

DO NOT SCALE



4 x M3 x 8 DEEP
POSITION ON ASSEMBLY
AND TAP THRU. FROM
BRACKETS
DRGS. BL/539 & BL/541

DIMENSIONS ARE NOMINAL POSITIONS
BUT CHECK ON ASSEMBLY
SPOT THRU.FROM STOP BRACKETS

ALL OTHER DETAILS SEE DRG. W/BL/301

				TOLERANCES (UNLESS OTHERWISE STATED)	MATERIAL	THIRD ANGLE PROJECTION	DIMS IN mm	ORIGINAL SCALE	ORIGINAL SHEET SIZE A2		G.A. NO.	
				X ±							LOC'N.	BL
1		19/12/96	AJW	X.X ±			ROYAL GREENWICH OBSERVATORY	TITLE	4.2 WYFFOS GRATING – MODIFICATION		SHT.	1
ISSUE	MOD. NO.	DATE	DRAWN BY	X.XX ±	FINISH	NO. REQ'D PER ASS'Y	MADINGLEY ROAD	MOD TO COLLIMATOR TO SUIT GRATING STOPS		DRG NO. BL/542		
				ANG. ±			CAMBRIDGE CB3 0EZ					

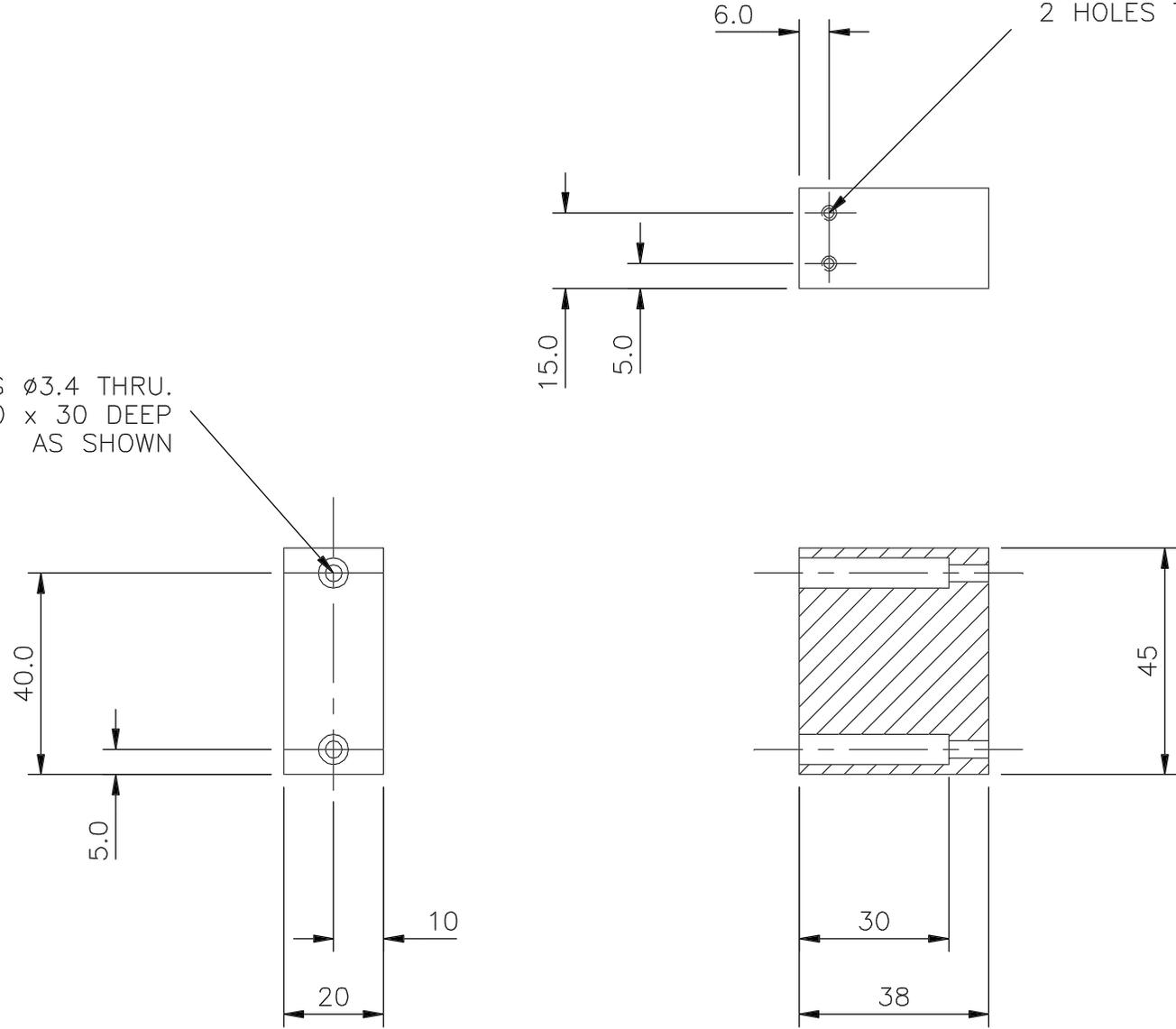
DRG NO.
BL/530

DO NOT SCALE

REMOVE ALL SHARP EDGES

2 HOLES $\phi 3.4$ THRU.
C/BORE $\phi 6.0$ x 30 DEEP
AS SHOWN

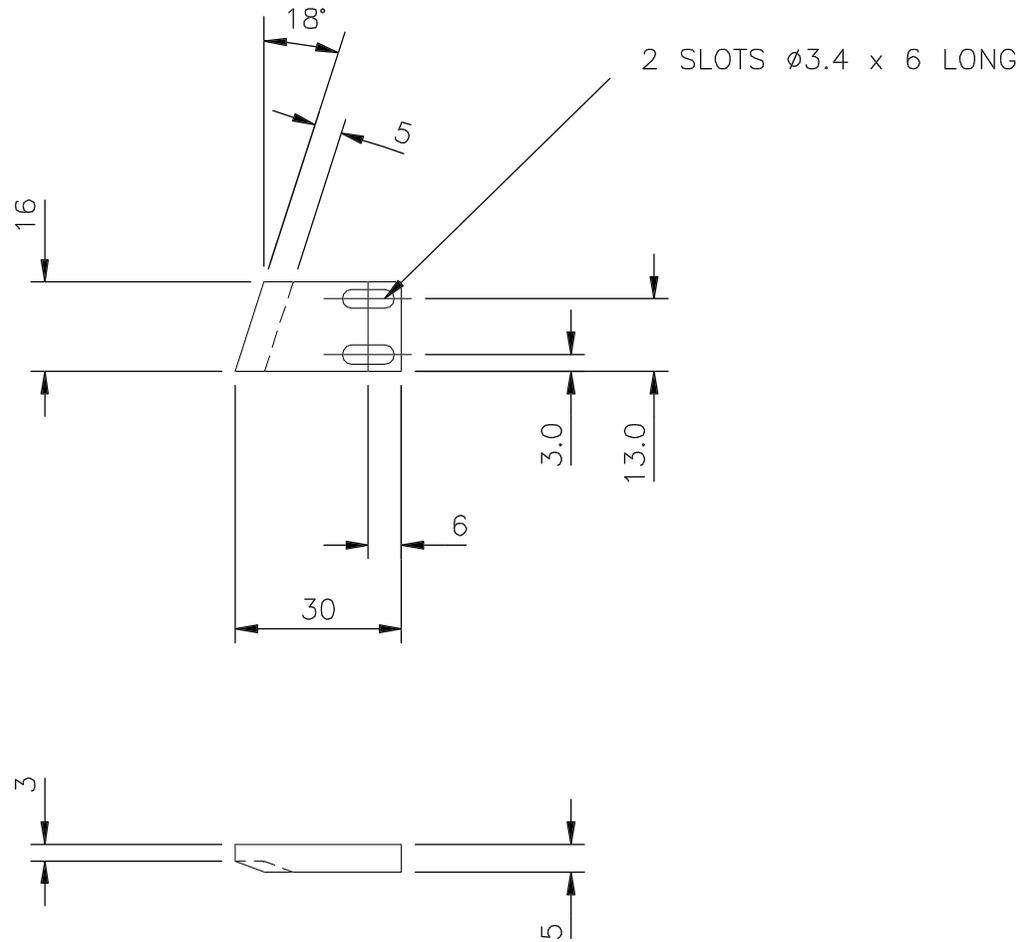
2 HOLES TAP M3 x 10 DEEP



			TOLERANCES (UNLESS OTHERWISE STATED)	MATERIAL	THIRD ANGLE PROJECTION	DIMS IN mm	ORIGINAL SCALE 1:1	ORIGINAL SHEET SIZE A3	G.A. NO.	V/BL/400
			X ± 0.3	AL.ALLOY		ROYAL GREENWICH OBSERVATORY	TITLE	WYFFOS GRATING – STOP BRACKET		
1	03/02/95	AJW	X.X ± 0.1	FINISH	No. REQ'D	MADINGLEY ROAD		FITS TO SECOND COLLIMATOR		
ISSUE	DATE	DRAWN	X.XX ±	BLK. ANODISE	1 OFF	CAMBRIDGE CB3 0EZ	DRG NO.	BL/530	SHT. 1	LOC'N BL
			ANG. ±							

DRG NO.
BL/531

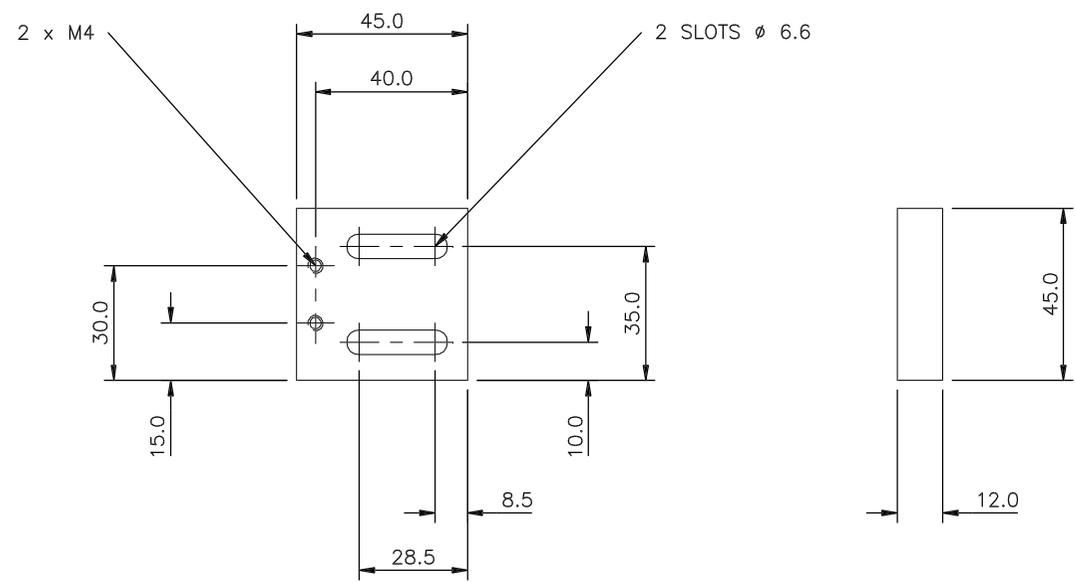
DO NOT SCALE REMOVE ALL SHARP EDGES



			TOLERANCES (UNLESS OTHERWISE STATED)	MATERIAL	THIRD ANGLE PROJECTION	DIMS IN mm	ORIGINAL SCALE 1:1	ORIGINAL SHEET SIZE A3	G.A. NO.	V/BL/400
			X ± 0.3	AL.ALLOY		ROYAL GREENWICH OBSERVATORY	TITLE	WYFFOS GRATING - STOP SWITCH FLAG		
1	06/02/95	AJW	X.X ± 0.1	FINISH	No. REQ'D	MADINGLEY ROAD	FITS TO SECOND COLLIMATOR			
ISSUE	DATE	DRAWN	X.XX ± 0.1	BLK.	1 OFF	CAMBRIDGE CB3 0EZ	DRG NO.	BL/531	SHT.	1
			ANG. \pm	ANODISE					LOC'N	BL

DRG NO.
BL/536

DO NOT SCALE
REMOVE ALL SHARP EDGES

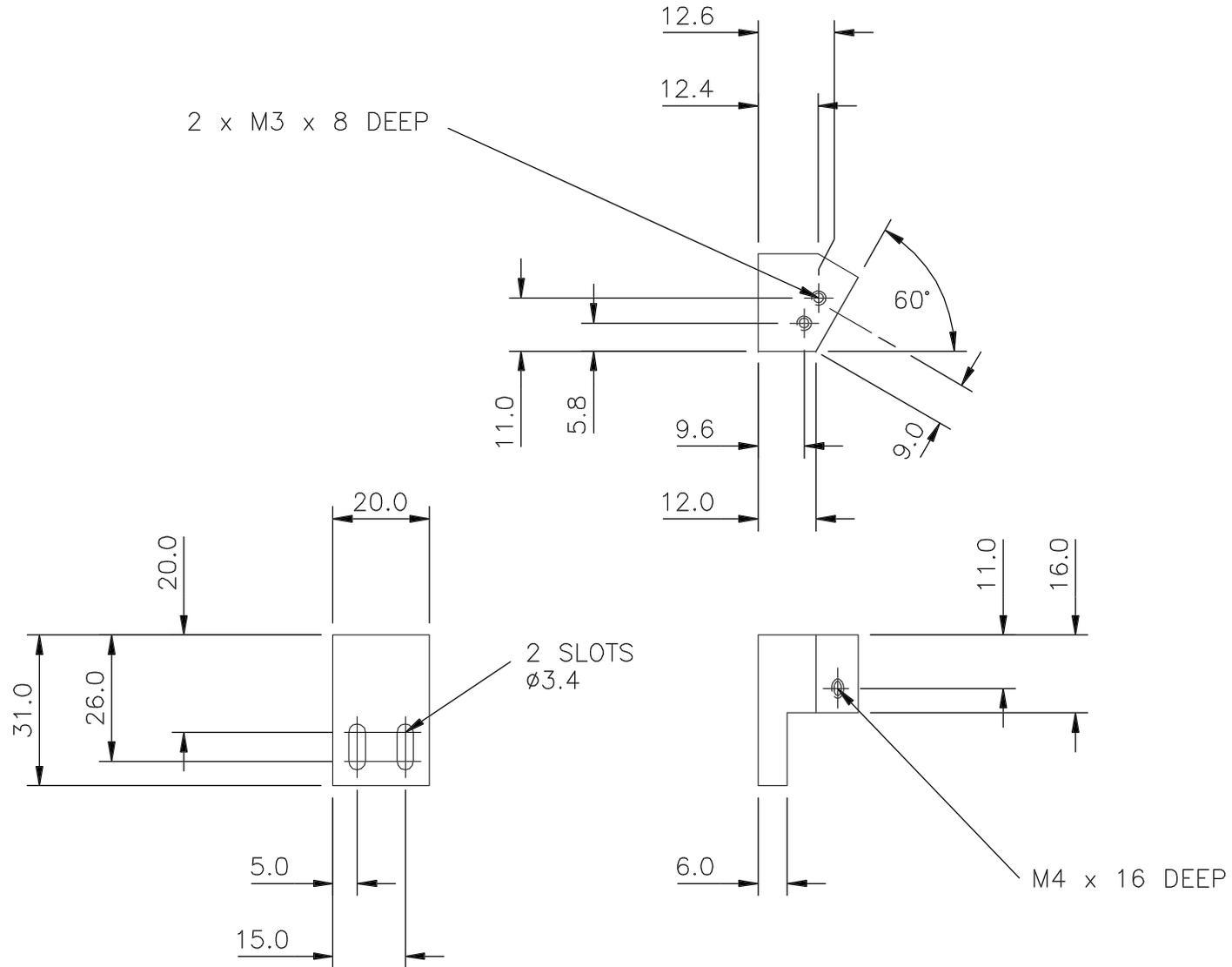


				TOLERANCES (UNLESS OTHERWISE STATED) X ± X.X ± 0.1 X.XX ± ANG. ±	MATERIAL H30 AL.ALLOY	THIRD ANGLE PROJECTION ⊕ ↙	DIMS IN mm	ORIGINAL SCALE 1:1	ORIGINAL SHEET SIZE A2	G.A. NO.
1		19/12/96	AJW		FINISH BLK.ANODISE	NO. REQ'D PER ASS'Y 2 OFF	ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD CAMBRIDGE CB3 0EZ	TITLE 4.2M WYFFOS GRATING – POS'N ID SWITCH FLAG BRACKET	LOC'N. BL SHT. 1	DRG NO. BL/536

DRG NO.
BL/539

DO NOT SCALE

REMOVE ALL SHARP EDGES

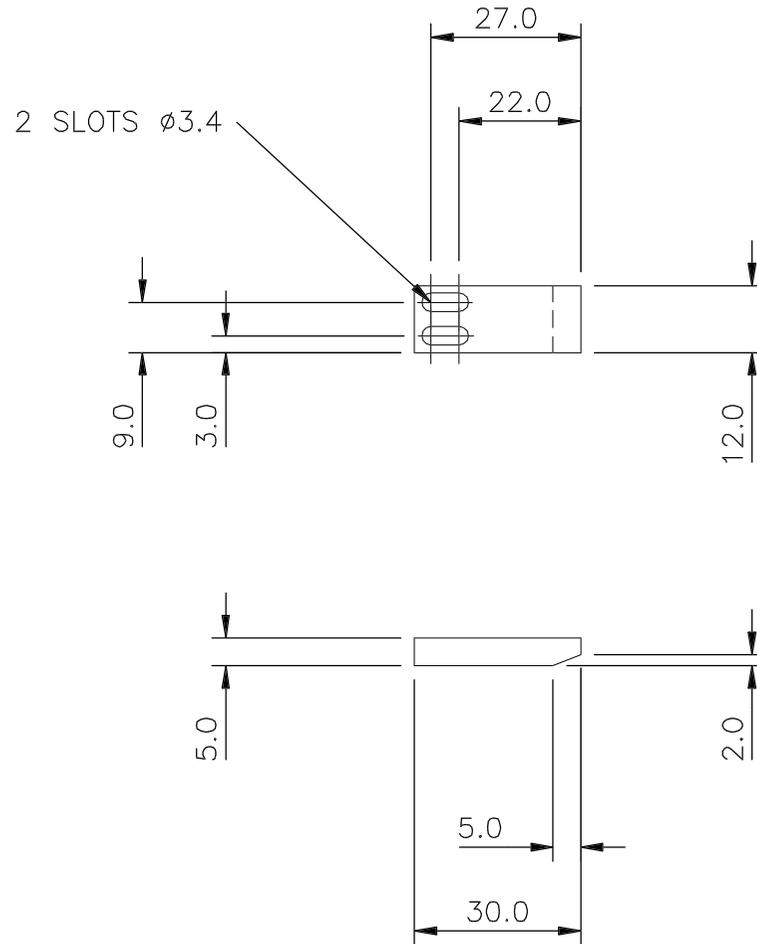


			TOLERANCES (UNLESS OTHERWISE STATED)	MATERIAL	THIRD ANGLE PROJECTION	DIMS IN mm	ORIGINAL SCALE 1:1	ORIGINAL SHEET SIZE A3	G.A. NO.	
			X ±	AL.ALLOY		ROYAL GREENWICH OBSERVATORY	TITLE	4.2 WYFFOS GRATING – STOP BRACKET		
1	19/12/96	AJW	X.X ± 0.1	FINISH BLK.	No. REQ'D	MADINGLEY ROAD	MOUNTED TO FIRST COLLIMATOR			
ISSUE	DATE	DRAWN	X.XX ±	ANODISE	1 OFF	CAMBRIDGE CB3 OEZ	DRG NO.	BL/539	SHT. 1	LOC'N BL
			ANG. ±							

DRG NO.
BL/540

DO NOT SCALE

REMOVE ALL SHARP EDGES

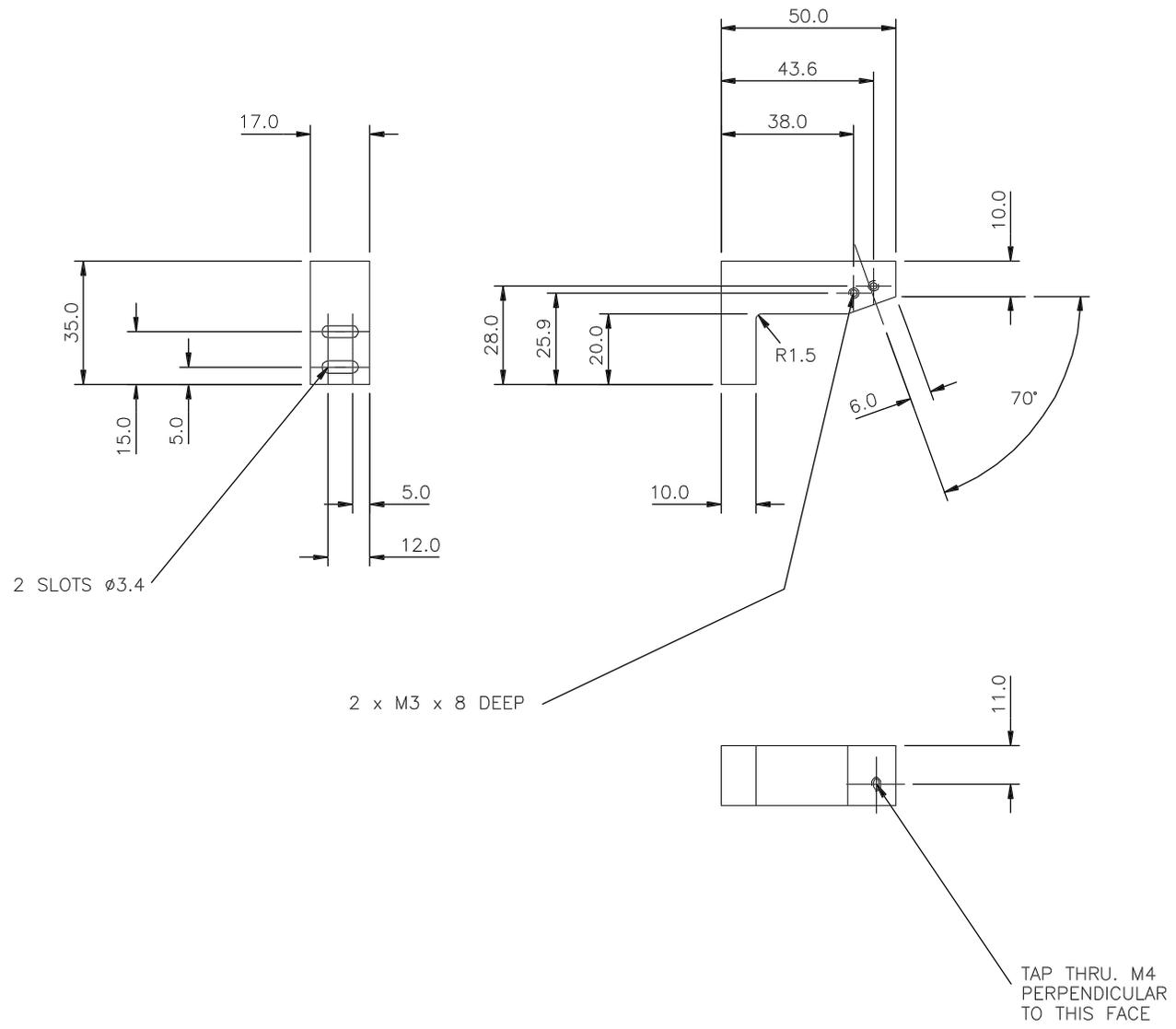


			TOLERANCES (UNLESS OTHERWISE STATED)	MATERIAL	THIRD ANGLE PROJECTION	DIMS IN mm	ORIGINAL SCALE 1:1	ORIGINAL SHEET SIZE A3	G.A. NO.	
			X \pm	AL.ALLOY		ROYAL GREENWICH OBSERVATORY	TITLE	4.2 WYFFOS GRATING – STOP ARM MOUNTED TO FIRST COLLIMATOR		
1	19/12/96	AJW	X.X \pm 0.1	FINISH BLK.	No. REQ'D	MADINGLEY ROAD				
ISSUE	DATE	DRAWN	X.XX \pm	ANODISE	2 OFF	CAMBRIDGE CB3 0EZ	DRG NO.	BL/540	SHT. 1	LOC'N BL
			ANG. \pm							

DRG NO.
BL/541

DO NOT SCALE

REMOVE ALL SHARP EDGES

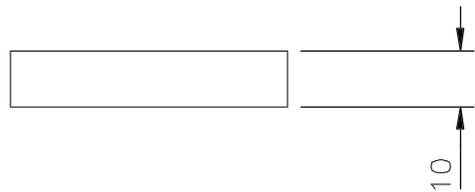
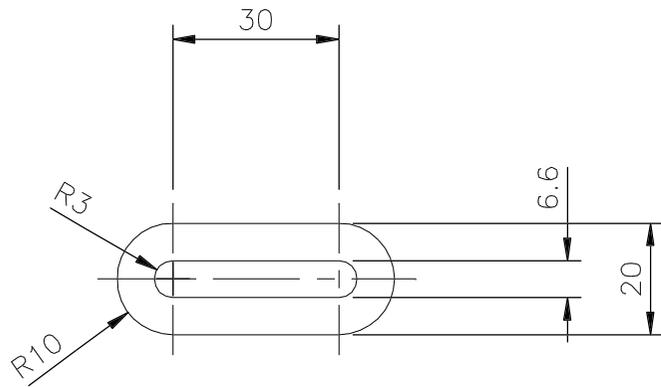


				TOLERANCES (UNLESS OTHERWISE STATED)	MATERIAL	THIRD ANGLE PROJECTION	DIMS IN mm	ORIGINAL SCALE	1:1	ORIGINAL SHEET SIZE	A2	G.A. NO.	
				X ±	AL.ALLOY		ROYAL GREENWICH OBSERVATORY			TITLE	4.2 WYFFOS GRATING – STOP BRACKET	LOC'N. BL	SHT. 1
1		19/12/96	AJW	X.X ± 0.1	FINISH	NO. REQ'D PER ASSY	MADINGLEY ROAD			MOUNTED TO FIRST COLLIMATOR		DRG NO.	
ISSUE	MOD. NO.	DATE	DRAWN BY	ANG. ±	BLK.ANODISE	1 OFF	CAMBRIDGE CB3 0EZ					BL/541	

DRG NO.
BL/534

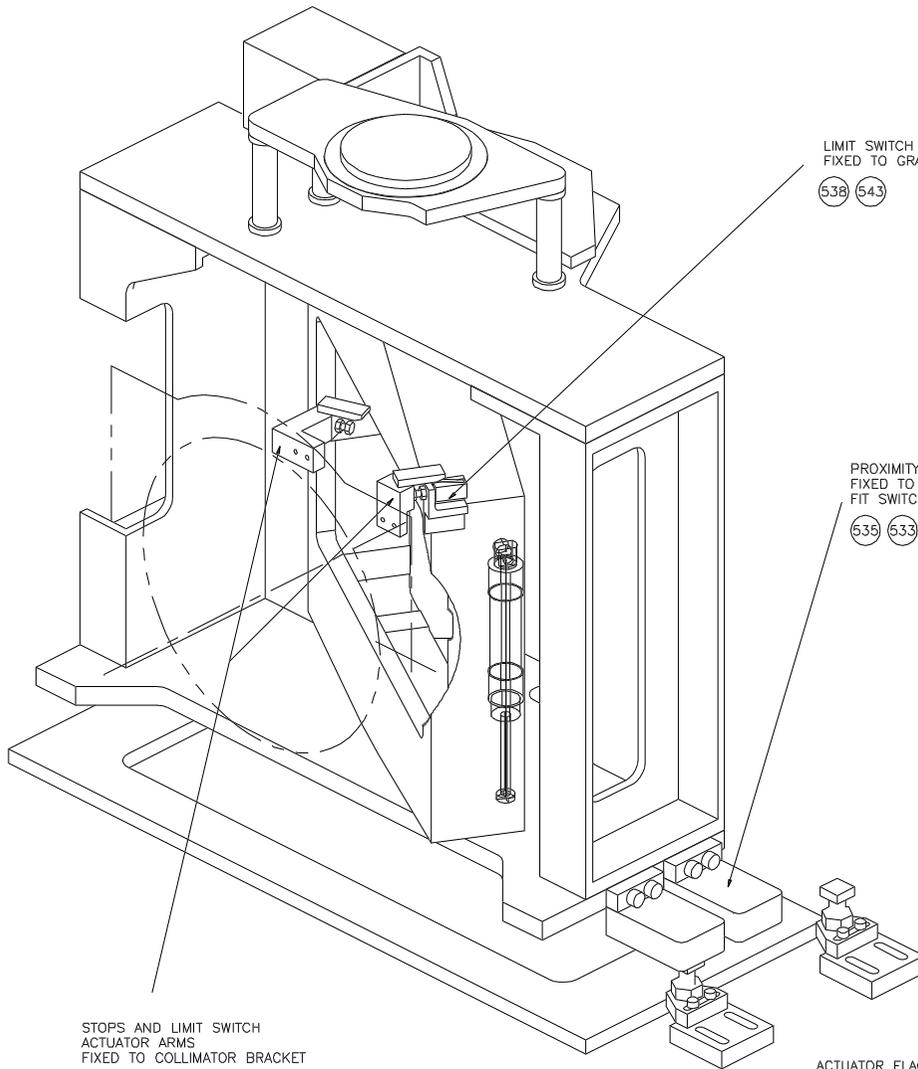
DO NOT SCALE

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 ± 0.3	AL.ALOY		ROYAL GREENWICH OBSERVATORY	TITLE 4.2 WYFFOS GRATING – BASEPLATE STOPS	REQUIRED FOR UPGRADE TO SUIT ECHELLE GRATING	
1	19/12/96	AJW	X.X ± 0.1	FINISH BLK.	No. REQ'D	MADINGLEY ROAD		DRG NO. BL/534	SHT. 1
ISSUE	DATE	DRAWN	X.XX ± 0.1	ANODISE	9 OFF	CAMBRIDGE CB3 0EZ			LOC'N BL
			ANG. ±						

DO NOT SCALE

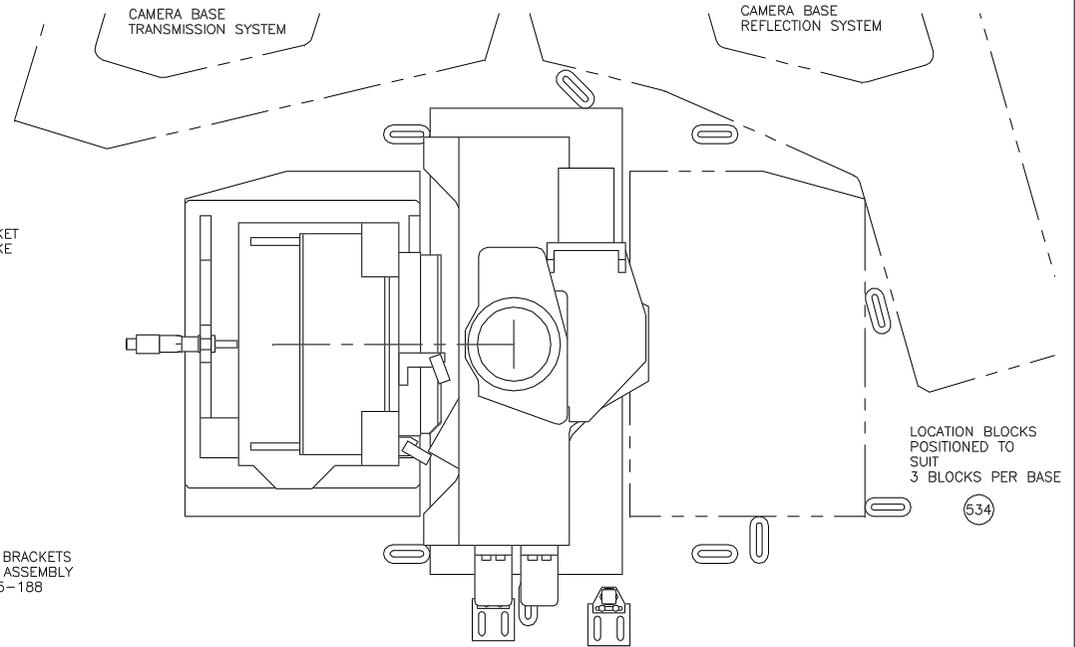


LIMIT SWITCH & BRACKET
FIXED TO GRATING YOKE
(538) (543)

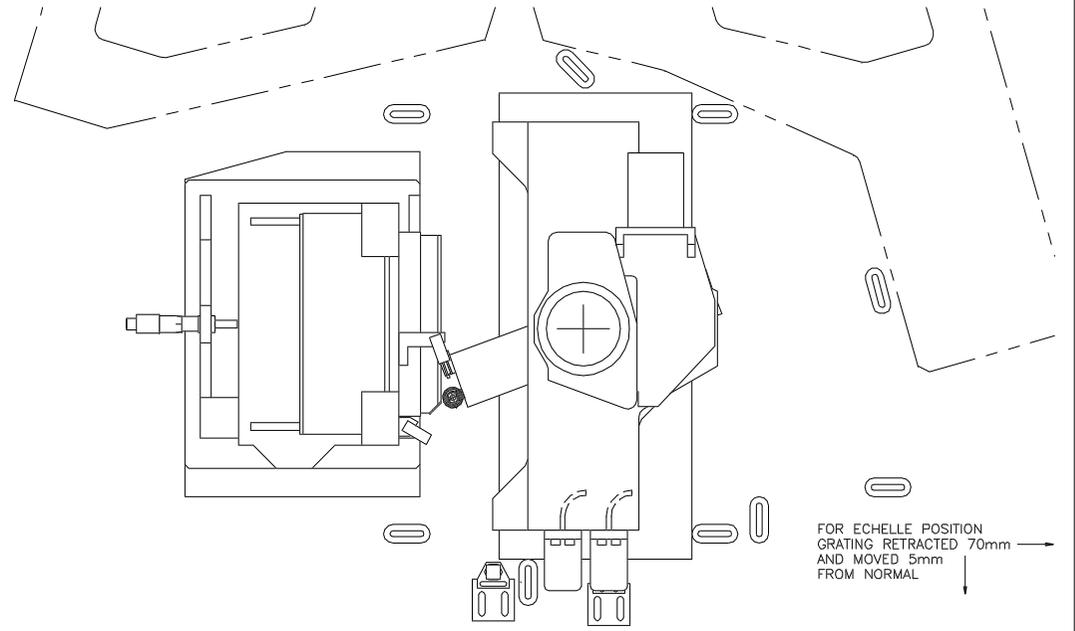
PROXIMITY SWITCH BRACKETS
FIXED TO GRATING ASSEMBLY
FIT SWITCH RS 285-188
(535) (533)

STOPS AND LIMIT SWITCH
ACTUATOR ARMS
FIXED TO COLLIMATOR BRACKET
(542) (541) (540) (539)

ACTUATOR FLAG
AND BRACKETS FIXED
TO OPTICAL TABLE
POSITION TO SUIT
(537) (536)



GRATING IN NORMAL OPERATING POSITION - 30 ° ROTATION MAX.



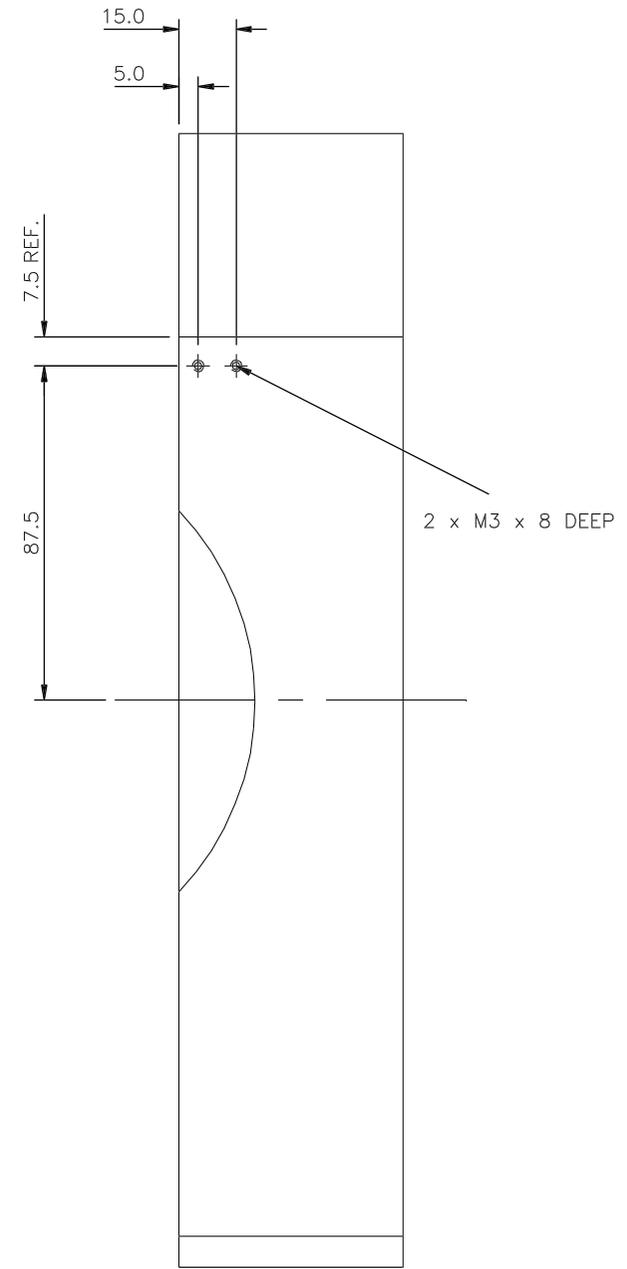
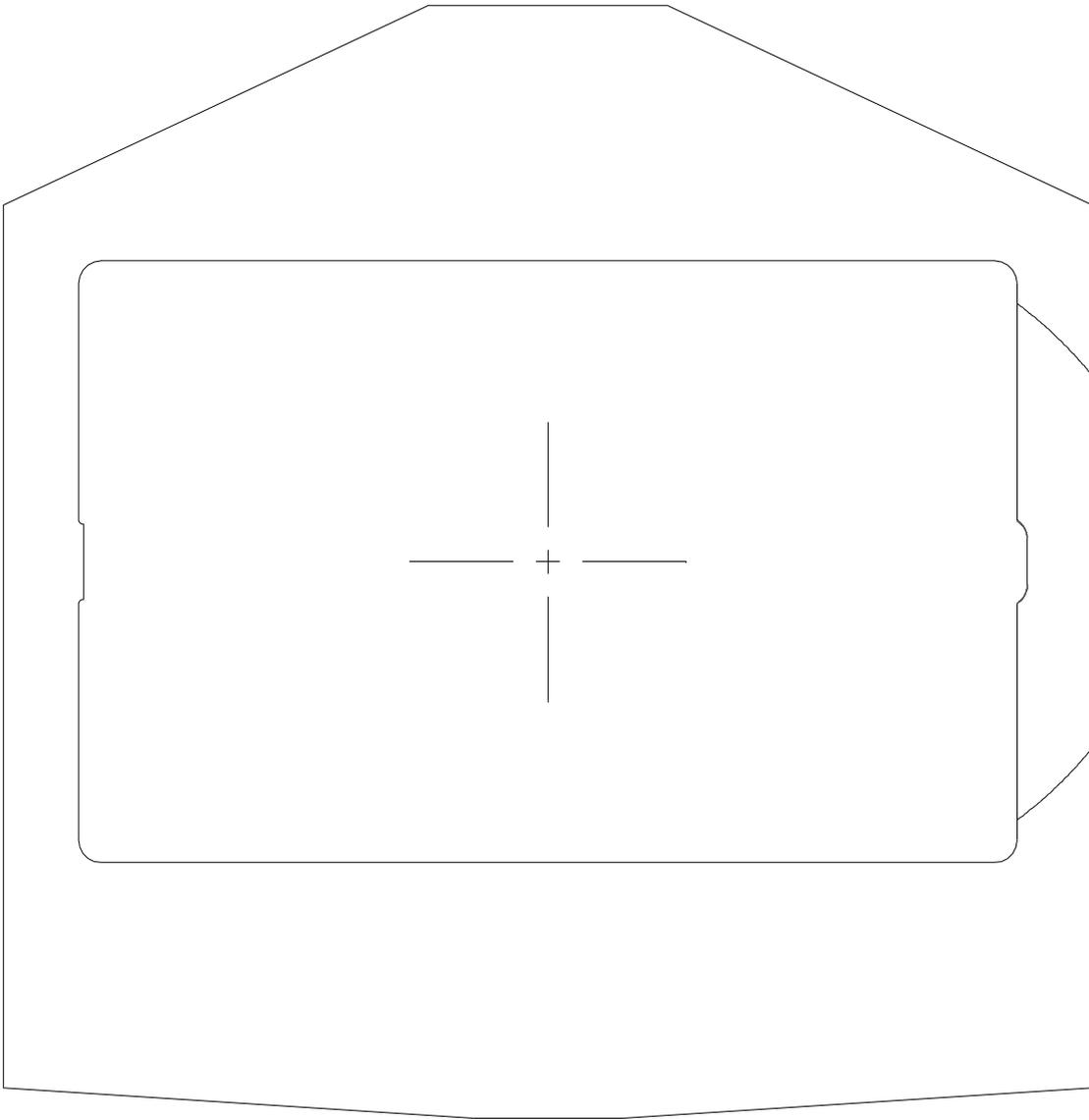
GRATING IN NORMAL OPERATING POSITION - 70 ° ROTATION MAX.

FOR ECHELLE POSITION
GRATING RETRACTED 70mm
AND MOVED 5mm
FROM NORMAL

								TOLERANCES (UNLESS OTHERWISE STATED)		MATERIAL	THIRD ANGLE PROJECTION	DIMS IN mm	ORIGINAL SCALE	ORIGINAL SHEET SIZE A0		G.A. NO.	LOC'N.	BL
ISSUE	MOD NO.	DATE	DRAWN BY	ISSUE	MOD NO.	DATE	DRAWN BY	x	±	FINISH	NO. REQ'D PER ASSY	ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD CAMBRIDGE CB3 0EZ		4.2 WYFFOS GRATING - MODIFICATIONS TO SUIT THE ECHELLE GRATING MODE		DRG. NO.	SHT.NO.	1
				1		19/12/96	AJW	x.x	±									
								x.xx	±									
								ANG.	±									

DRG NO.
BL/543

DO NOT SCALE

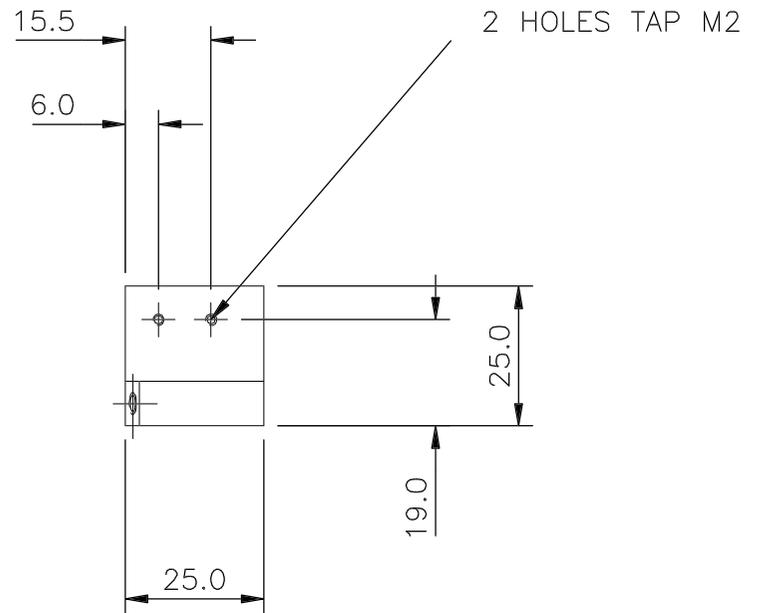
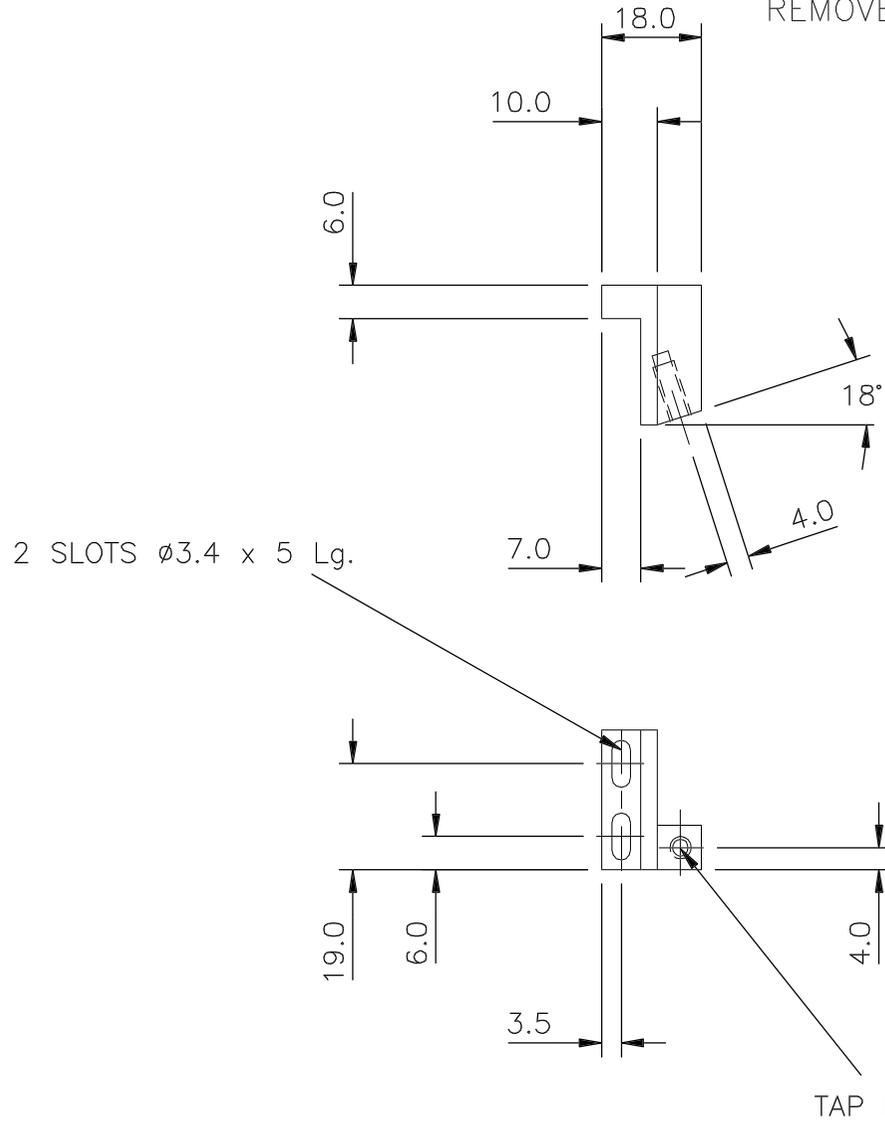


ALL OTHER DETAILS AS DRG. V/BL/493

				TOLERANCES (UNLESS OTHERWISE STATED)	MATERIAL	THIRD ANGLE PROJECTION	DIMS IN mm	ORIGINAL SCALE 1:1	ORIGINAL SHEET SIZE A2	G.A. NO.		
				X ±						LOC'N.	BL	SHT. 1
1		19/12/96	AJW	X.X ±		NO. REQ'D PER ASS'Y	ROYAL GREENWICH OBSERVATORY	TITLE	4.2 WYFFOS GRATING - YOKE MODS.	DRG NO.		
ISSUE	MOD. NO.	DATE	DRAWN BY	X.XX ±	FINISH		MADINGLEY ROAD	TO SUIT EXTRA ROTATION FOR ECHELLE			BL/543	
				ANG. ±			CAMBRIDGE CB3 0EZ					

DRG NO.
BL/529

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. V/BL/400
			X ± 0.3	AL.ALLOY		ROYAL GREENWICH OBSERVATORY	TITLE	WYFFOS GRATING – LIMIT SW. BRACKET	
1	03/02/95	AJW	X.X ± 0.1	FINISH BLK	No. REQ'D	MADINGLEY ROAD			
ISSUE	DATE	DRAWN	ANG. ±	ANODISE	1 OFF	CAMBRIDGE CB3 0EZ	DRG NO. BL/529	SHT. 1	LOC'N BL

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 / 400 A	1		GENERAL ASSEMBLY SHT1							
V / BL / 400	1		GENERAL ASSEMBLY SHT2							
W / BL / 401	1	1	BASE PLATE	1						
W / BL / 402	1	2	PIVOT PLATE	1						
W / BL / 403	1	3	LEG R.H.	1						
W / BL / 404	1	4	LEG L.H.	1						
W / BL / 405	1	5	TOP PLATE	1						
W / BL / 406 A	1	6	SPINDLE	1						
/ / 407		7	SPINDLE PNEUMATIC CONNECTOR	1						
/ / 408		8	BALL	1						
W / BL / 409	1	9	BEARING	1						
/ / 410		10	PRESSURE PLATE	1						
/ / 411		11	BLOCK	2						
/ / 412		12	CLAMP ARM	1						
W / BL / 413	1	13	CLAMP & CYLINDER PIVOT	1						
/ / 414		14	SCREW	1						
/ / 415		15	COUNTER BALANCE WEIGHT	1						
/ / 416		16	BEARING	1						
W / BL / 417	1	17	PROXIMITY SWITCH BRACKET	2						
/ / 418		18	PROXIMITY SWITCH BRACKET	1						
/ / 419		19	PROXIMTY SWITCH FLAG	1						
/ / 420		20	PROXIMTY SWITCH FLAG	1						
/ / 421		21	PROXIMTY SWITCH FLAG	1						
W / BL / 422	1	22	CLAMP SPINDLE	1						
/ / 423		23	CLEVIS	2						
/ / 424		24	CLEVIS	1						
/ / 425		25	PROXIMITY SWITCH BRACKET	2						
/ / 426		26	PROXIMITY SWITCH BRACKET	1						
W / BL / 427	1	27	CRANK ARM	1						
/ / 428		28	PRE-LOAD CRANK BEARING	1						
/ / 429		29	LOCKNUT	3						
W / BL / 430	1	30	PRE-LOAD ROLLER SPINDLE	2						
/ / 431	1	31	SIDE ROLLER COVER	1						
/ / 432		32	CYLINDER PIVOT BRACKET	1						
/ / 433		33	CYLINDER PIVOT PIN	1						
W / BL / 434	1	34	BELL CRANK ROLLER	2						
/ / 435		35	SPRING RETAINER	4						
/ / 436		36	STOP SCREW	2						
JOB TITLE	GRATING HOUSING ASSEMBLY					ASS'Y DRG No. V/BL/400	SHEET No. 1 of 6	DRAWN BY PROMECH DATE 1/2/93		
ROYAL GREENWICH OBSERVATORY, MADINGLEY ROAD, CAMBRIDGE										

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
437		37	SIDE ROLLER	1					
W/ BL /438 A	1	38	CYLINDER PIVOT	3					
/ /439		39	CATCH	3					
/ /440		40	BALL	1					
/ /441		41	LOCATION PAD	1					
/ /442		42	LOCATION PAD	2					
W/ BL /443	1	43	SPRING ANCHOR	1					
/ /444		44	SPRING ANCHOR	1					
/ /445		45	SPRING ANCHOR	1					
/ /446		46	SPRING ANCHOR	1					
W/ BL /447	1	47	PIVOT BLOCK	1					
/ /448		48	LEVER	1					
/ /449		49	LEVER	1					
/ /450		50	LEVER	1					
/ /451		51	CLAMP SPINDLE	2					
W/ BL /452	1	52	CLAMP VANE	1					
/ /453		53	VANE RETAINER	1					
/ /454		54	BEARING BLOCK	1					
/ /455		55	BEARING BLOCK	1					
W/ BL /456	1	56	WORM WHEEL	1					
W/ BL /457 A	1	57	WORM	1					
/ /458		58	PILLAR	3					
/ /459		59	SPACER	3					
/ /460		60	DIAPHRAGM	1					
W/ BL /461	1	61	CLAMP	3					
/ /462		62	PIVOT BLOCK	1					
/ /463		63	PIVOT BLOCK	1					
/ /464		64	CLAMP PIVOT	1					
/ /465		65	CLAMP PIVOT	1					
W/ BL /466	1	66	PLATE	2					
/ /467		67	PLATE	2					
/ /468		68	PIVOT	1					
/ /469		69	LEVER	1					
/ /470		70	CRANK	1					
W/ BL /471 A	1	71	ENCODER MOUNTING PLATE	1					
/ /472		72	ENCODER FLANGE	1					
/ /473		73	ENCODER CLAMP	3					
W/ BL /474 A	1	74	WORM MOUNTING PLATE	1					
JOB TITLE						ASS'Y DRG No.	SHEET No.	DRAWN BY PROMECH	
GRATING HOUSING ASSEMBLY						V/BL/400 B	2 of 6	DATE 1/2/93	
ROYAL GREENWICH OBSERVATORY, MADINGLEY ROAD, CAMBRIDGE									

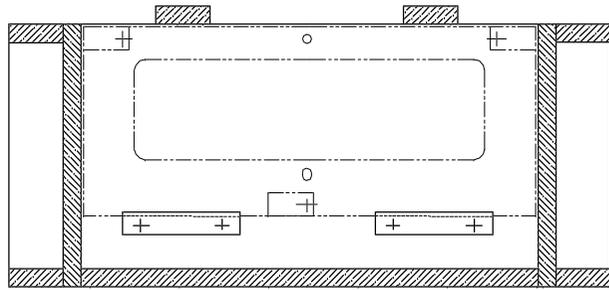
DRAWING NUMBER	No. OF SHEETS	GA ITEM No.	DRAWING TITLE OR COMPONENT NAME	No. OFF	MATERIAL STOCK OR ORDER No. AND DATE	REMARKS	ISSUE DATE	ISSUED TO	FINISH DATE	
W/ BL /475 A	1	75	CLAMP BODY	1						
/476		76	CYLINDER BRACKET	1						
/477		77	SPRING CAP	1						
W/ BL /478	1	78	ADJUSTER PLATE	2						
/479		79	PRE-LOAD SCREW	1						
/480		80	GRATING CELL LOCATION SCREW	3						
/481		81	CLAMP SCREW	3						
W/ BL /482	1	82	PLUNGER	1						
/483		83	FLAG	1						
/484		84	RAM CAP	1						
/485		85	PIVOT	1						
W/ BL /486	1	86	SHIM	1						
/487		87	GUIDE	2						
/488		88	SPACER BLOCK	1						
/489		89	BRACKET	1						
W/ BL /490 A	1	90	SPACER	1						
/491		91	SPRING POST	1						
/492		92	HAND KNOB	1						
V/ BL /493 A	1	93	HOUSING YOKE	1						
/		94								
W/ BL /495	1	95	CELL FRONT PLATE	1						
W/ BL /496	1	96	CELL BACK PLATE	1						
W/ BL /497	1	97	CELL TOP PLATE	1						
/498		98	CELL BOTTOM PLATE	1						
/499		99	LATCH PLATE	2						
/500		100	LOCATION PLATE	2						
/501		101	LOCATION PLATE	2						
/502		102	THREADED INSERT	6						
W/ BL /503	1	103	LOCATION PAD	2						
/504		104	LOCATION PAD(OPP HAND)	2						
/505		105	BUTTON	12						
/506		106	LATCH PLATE	2						
/507		107	TRANSPORTER LUGS	2						
/508		108	SPRING	2						
W/ BL /603	1	109	CLAMP LEG	3						
/604		110	CLAMP BUSH	3						
/605		111	CLAMP	3						
/606		112	SCREW CLAMP	2						
JOB TITLE	GRATING HOUSING ASSEMBLY					ASS'Y DRG No. V/BL/400 B	SHEET No. 3 of 6	DRAWN BY PROMECH DATE 1/2/93		
ROYAL GREENWICH OBSERVATORY, MADINGLEY ROAD, CAMBRIDGE										

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	
W/ BL /607	1	113	BUTTON	3						
608		114	SUPPORT BUSH (CONE)	1						
W/ BL /609	1	115	ADJUSTING SCREW	3						
W/ BL /610	1	116	SUPPORT BUSH(VEE)	1						
611		117	SUPPORT BUSH(FLAT)	1						
613		118	CLAMP	4						
W/ BL /307	1	119	SCREW CLAMP(OPPOSITE HAND)	1						
/ /										
/ /										
/ /		120	CYLINDER "KUHNIKE"	1	2619010					
/ /		121	CYLINDER "KUHNIKE"	1	26304					
/ /		122	CYLINDER "KUHNIKE"	3	36291					
/ /		123	CYLINDER "KUHNIKE"	1	41100					
/ /		124	TENSION SPRING "LEE"	2	LE-055D-10					
/ /		125	TORSION SPRING "LEE"	2	LTL 070M3SS					
/ /		126	TORSION SPRING "LEE"	1	LTR 070M3SS					
/ /		127	TENSION SPRING "LEE"	4	LE-034B-8					
/ /		128	COMPRESSION SPRING "LEE"	2	LC-035C-5					
/ /		129	DISC SPRING "SPRINGMASTER"	11	OD12,ID5.2,GROUP1					
/ /		130	BALL RACE "RMB"	3	R 4130X					
/ /		131	BALL RACE "RMB"	1	RV 822X					
/ /		132	ANGULAR CONTACT "RMB"	2	RA 8220X					
/ /	Ⓐ	133	MOTOR "BERGER LAHA"	1	VRDM 568 DOUBLE ENDED					
/ /	Ⓐ	134	ENCODER 'HEIDENHAIN'	1	ROC 417					
/ /		135	RGO STATUS ENCODER-BAR CODE	1						
/ /	Ⓐ	136	COUPLING HELICAL	1	WAC 25-6mm-6mm					
/ /		137	VIBRATION MOUNT	4	17/1405					
/ /		138	"O" RING "DOWTY"	2	#015					
/ /		139	CIRCLIP EXTERNAL ø6 SHAFT	7						
/ /		140	BUSH "GLACIER"	6	PM 1010 DX					
/ /		141	PROXIMITY SWITCH "HETITCH"	9	5035					
/ /		142	BALL ø3.00	3						
/ /		143	COMPRESSION SPRING "LEE"	3	CI-012B-2					
/ /	Ⓐ	144	COUPLING HELICAL	1	WAC 25-8mm-8mm					
/ /										
/ /										
/ /										
/ /										
JOB TITLE					GRATING HOUSING ASSEMBLY		ASS'Y DRG No.	SHEET No.	DRAWN BY PROMECH	
							V/BL/400 B	4 of 6	DATE 1/2/93	
ROYAL GREENWICH OBSERVATORY, MADINGLEY ROAD, CAMBRIDGE										

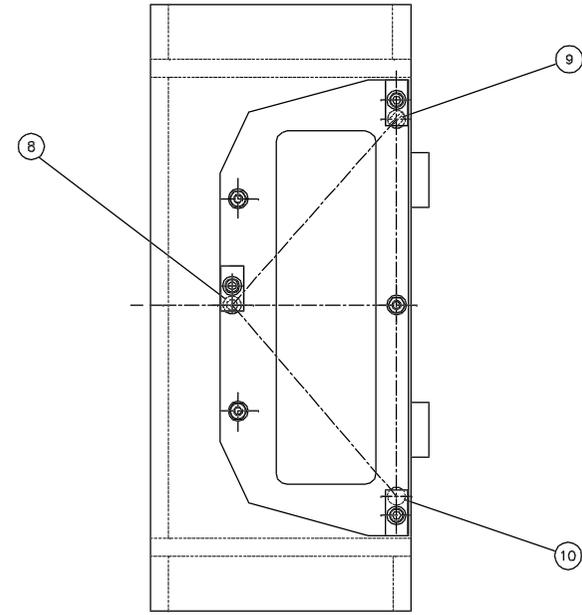
DRAWING NUMBER	No. OF SHEETS	GA ITEM No.	DRAWING TITLE OR COMPONENT NAME	No. OFF	MATERIAL STOCK OR ORDER No. AND DATE	REMARKS	ISSUE DATE	ISSUED TO	FINISH DATE	
/ /		150	SOC HD CAP SCREW M10 x 90	3						
/ /		151	SOC HD CAP SCREW M8 x 20	14						
/ /		152	SOC HD CAP SCREW M6 x 35	9						
/ /		153	HEX HD CAP SCREW M6 x 35	3						
/ /		154	SOC HD CAP SCREW M6 x 25	3						
/ /		155	SOC HD CAP SCREW M6 x 20	12						
/ /		156	SOC HD CAP SCREW M5 x 30	4						
/ /		157	SOC HD CAP SCREW M5 x 20	4						
/ /		158	HEX HD CAP SCREW M5 x 20	3						
/ /		159	SOC HD CAP SCREW M5 x 16	13						
/ /		160	SOC HD CAP SCREW M5 x 12	19						
/ /		161	SOC HD CAP SCREW M5 x 10	4						
/ /		162	SOC HD CAP SCREW M4 x 25	4						
/ /		163	SOC HD CAP SCREW M4 x 16	54						
/ /		164	SOC HD CAP SCREW M4 x 10	16						
/ /		165	SOC HD CAP SCREW M3 x 10	12						
/ /		166	SOC HD CAP SCREW M2.5 x 10	17						
/ /		167	SOC HD CAP SCREW M2 x 5	2						
/ /		168	SOC HD CAP SCREW M1.6 x 10	9						
/ /		169	SOC HD CAP SCREW M3 x 12	1						
/ /		170	SOC HD GRUB SCREW M4 x 6	1						
/ /		171	SOC HD GRUB SCREW M4 x 6	3						
/ /		172	SOC HD GRUB SCREW M3 x 6	3						
/ /		173	SOC HD GRUB SCREW M5 x 16	2						
/ /		174	SOC HD CAP SCREW M2.5 x 5	6						
/ /		175	SOC HD CAP SCREW M3 x 8	24						
/ /		176	SOC HD CSK SCREW M3 x 16	4						
/ /		177	SOC HD CSK SCREW M3 x 8	4						
/ /		178	SLOTTED PAN HD SCREW M3 x 10	2						
/ /		179								
/ /		180	LOCKNUT M8	1						
/ /		181	LOCKNUT M6	5						
/ /		182	LOCKNUT M16	1						
/ /		183	LOCKNUT M5	2						
/ /		184								
/ /										
/ /										
/ /										
JOB TITLE	GRATING HOUSING ASSEMBLY					ASS'Y DRG No. V/BL/400 B	SHEET No. 5 of 6	DRAWN BY PROMECH DATE 1/2/93		
ROYAL GREENWICH OBSERVATORY, MADINGLEY ROAD, CAMBRIDGE										

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	
W/ BL /510	1	200	GRATING OUTER CELL	1						
W/ BL /511	1	201	CELL BACK PLATE	1						
W/ BL /512	1	202	INNER HOUSING	1						
W/ BL /513	1	203	GRISM CELL	1						
W/ BL /514	1	204	LOCATION PAD	2						
/ /515		205	LOCATION PAD	2						
/ /516		206	LOCATION PAD	2						
/ /517		207	BUTTON	6						
/ /518		208	SPRING	3						
/ /519		209	LATCH PLATE	2						
/ /520		210	PAD	1						
/ /521		211	TRANSPORTER LUG	2						
/ /522		212	GRISM	1						
/ /										
/ /										
W/ BL /525	1	215	CONN. PLATE	1						
/ /526		216	RAIL	2						
/ /527		217	STOP BLOCK	1						
/ /528		218	STOP BRACKET	1						
/ /529		218	SPACING COLLAR	1						
/ /		220	BAR HANDLE -- R.S. TYPE A SIZE 1	2		RS 502-102				
/ /		221	NYLON GRUB SCREW M4 X 10	3						
/ /		222	NYLON GRUB SCREW M5 X 12	6						
/ /		223	NYLON GRUB SCREW M4 X 12	6						
/ /		224	CSK SCREW M3 X 10	24						
/ /		225	SOC CAP SCREW M4 X 12	7						
/ /		226	SOC CAP SCREW M4 X 8	6						
/ /		227	SOC CAP SCREW M4 X 16	12						
/ /										
/ /										
/ /		230	MICROMETER 0 - 25mm	1	MITUTOYO 151-221					
/ /		231	SOC CAP SCREW M6 X 25	9						
/ /		232	SOC CAP SCREW M6 X 12	8						
/ /		233	DOWEL ø6 X 20	6						
/ /										
/ /										
/ /										
/ /										
JOB TITLE	GRATING HOUSING ASSEMBLY					ASS'Y DRG No. V/BL/400 ISS D	SHEET No. 7 of 7	DRAWN BY PROMECH DATE 21/6/93		
ROYAL GREENWICH OBSERVATORY, MADINGLEY ROAD, CAMBRIDGE										

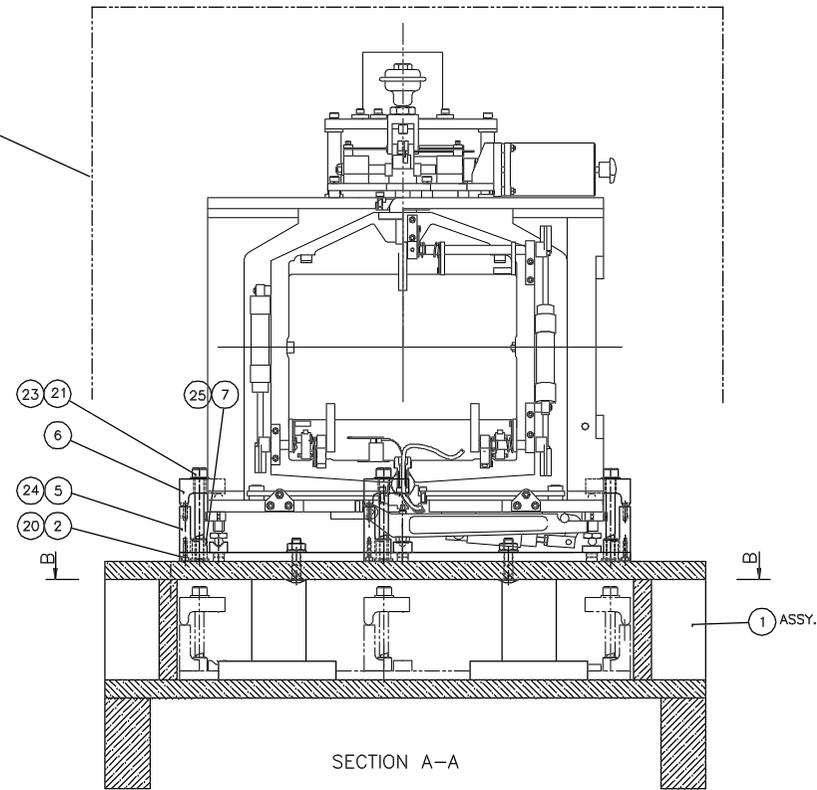
DRAWING NUMBER	No. OF SHEETS	GA ITEM No.	DRAWING TITLE OR COMPONENT NAME	No. OFF	MATERIAL STOCK OR ORDER No. AND DATE	REMARKS	ISSUE DATE	ISSUED TO	FINISH DATE	
V / BL / 830	1		GENERAL ASSEMBLY							
V / BL / 831	1	1	PLATEN	1						
W / BL / 832	1	2	PARKING PLATE	1						
/ /										
/ /										
W / 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 PLATEN FOR REFLECTIVE GRATING					ASS'Y DRG No. V/BL/830		SHEET No. 1 OF 1		DRAWN BY PROMECH DATE 27/7/92	
ROYAL GREENWICH OBSERVATORY, MADINGLEY ROAD, CAMBRIDGE										



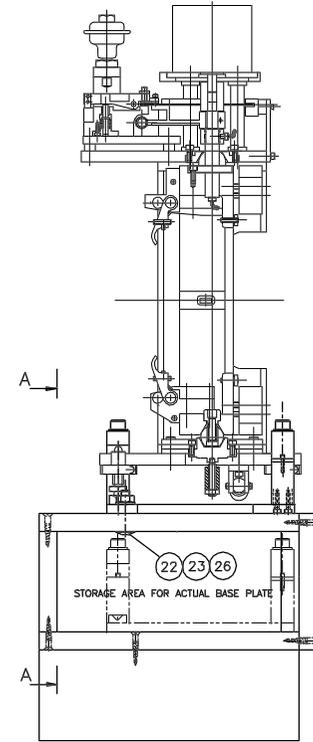
SECTION B-B



COVER TO SUIT (30)

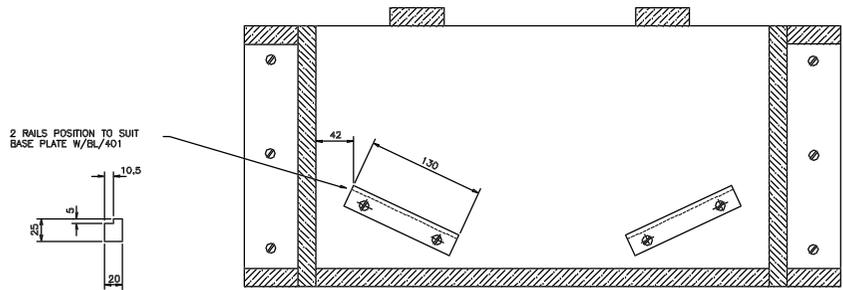


SECTION A-A

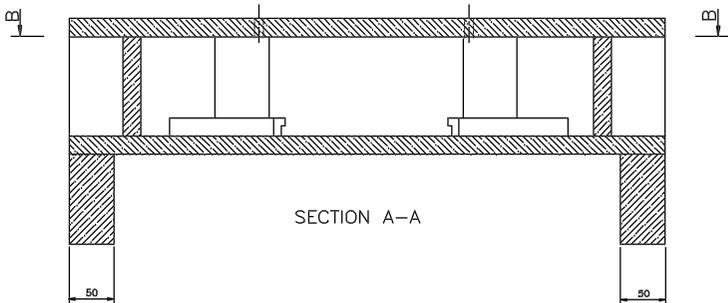
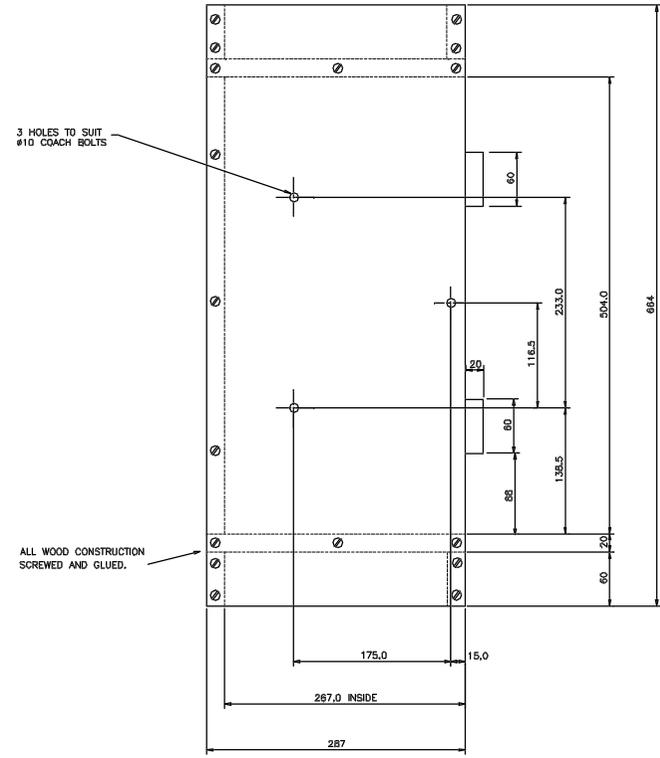


REF FOR REFLECTIVE GRATING ASSY. V/BL/400 ISS.D.

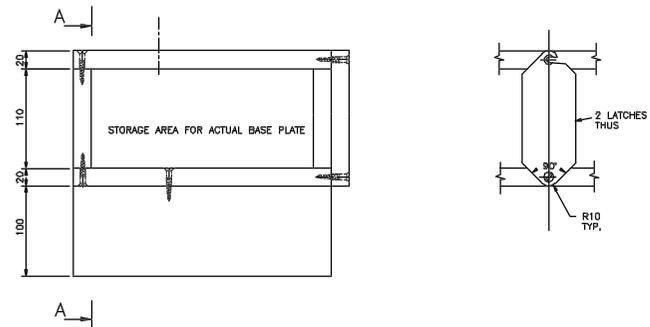
				TOLERANCES (UNLESS OTHERWISE STATED)				MATERIAL		DIM IN MM		SCALE 1/2 FULL		THIRD ANGLE PROJECTION		G.A. NO.	
				X X.X X.XX ANG				FINISH PAINT TO RGO SPEC		DRG NO. USED ON		ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD CAMBRIDGE CB3 0EZ		TITLE		DRG NO.	
ISSUE	MOD. NO.	DATE	DRAWN BY	A	MOD. NO.	21/8/93	PROMECH					PLATEN FOR REFLECTIVE GRATING		V/BL/830			



SECTION B-B



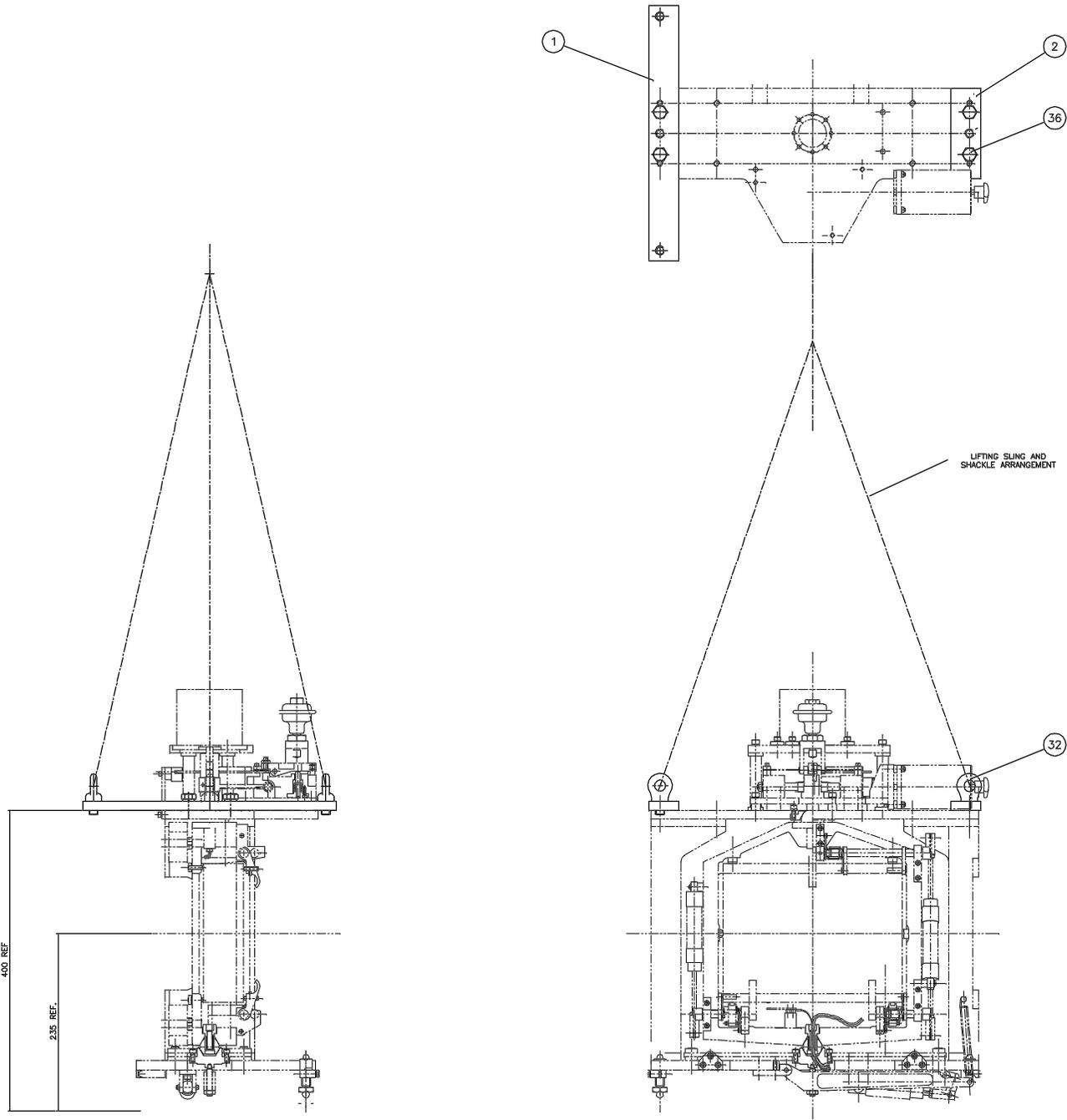
SECTION A-A



REF FOR REFLECTIVE GRATING V/BL/400 ISSA.

1 PLATEN			
MATERIAL	SCALE	TOLERANCES	
HARD WOOD	1/2 FULL	X	± .2
RGD SPEC.		XX	± .05
DRG NO.	REV. NO.	DATE	
V/BL/830	R.G.O.	V/BL/831	

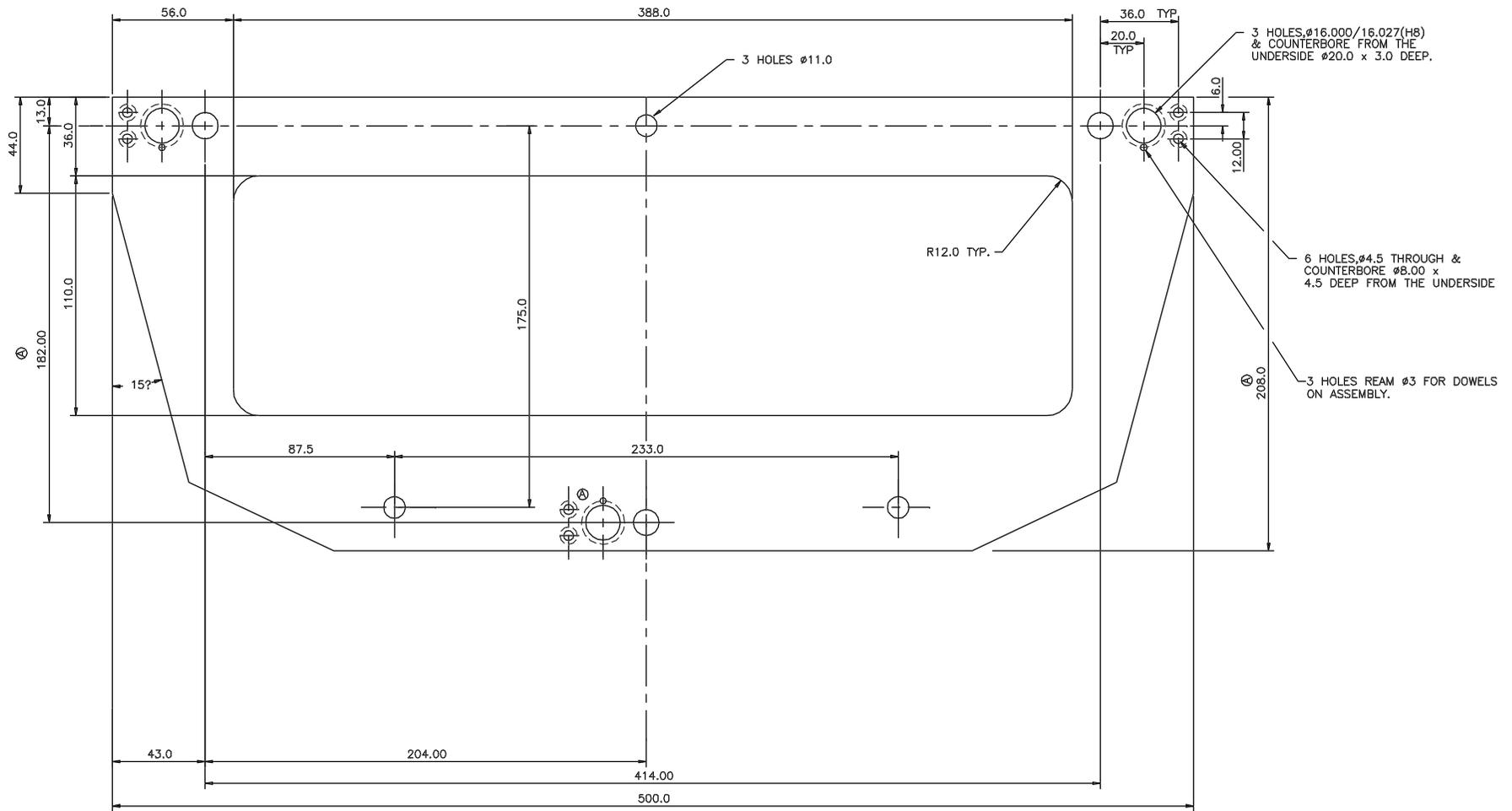
				TOLERANCES (UNLESS OTHERWISE STATED)		MATERIAL		DIM IN MM		SCALE 1/2 FULL		TITLE		G.A. NO.	
				X ± .2		FINISH		DRG NO.		ROYAL GREENWICH OBSERVATORY		THIRD ANGLE PROJECTION		DRG NO.	
				XX ± .05		PAINT TO RGO SPEC		NO REQ		MADINGLEY ROAD		DETAIL		V/BL/831	
				ANG ± .1		USED ON				CAMBRIDGE CB3 0EZ				FILE VBL831	
ISSUE	MOD. NO.	DATE	DRAWN BY	ISSUE	MOD. NO.	DATE	DRAWN BY								
						27/7/92	PROMECH								



MASS TO LIFT = 32kg

				2		22/9/94	PROMECH	TOLERANCES (UNLESS OTHERWISE STATED) X +/- XX +/- XXX +/- ANG +/-	MATERIAL			DIM IN MM	SCALE 1/2 FULL	THIRD ANGLE PROJECTION		G.A. NO.
						26/5/92	PROMECH			FINISH	DRG NO.	NO REQ	ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD CAMBRIDGE CB3 0EZ	TITLE	LIFTING SLING FOR GRATING	
ISSUE	MDD. NO.	DATE	DRAWN BY	ISSUE	MOD. NO.	DATE	DRAWN BY			USED ON						V/BL/860

REMOVE ALL SHARP EDGES

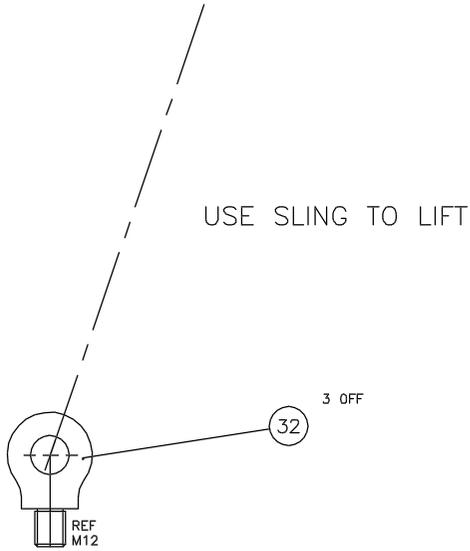


NOTE THIS PART IS SIMILAR TO W/BL/401

2		TITLE PARKING PLATE	
MATERIAL ALCOA PLT.	SCALE 1:1	TOLERANCES x xx 0.3 xxx 0.1	
FINISH MATT BLK ANODISE	No. REQ. PER UNIT 1		
Dwg. No. V/BL/830	A	DRAWING No. W/BL/832 ISS A	

				Tolerance (Unless otherwise stated)		Material		Dimns. in m.m.		Scale		THIRD ANGLE PROJECTION		GA No.	
				x +/-		Finish		ROYAL GREENWICH OBSERVATORY		Title		DETAIL		Drawing No.	
				xx +/-		Drg. No.		MADINGLEY ROAD						W/BL/832	
				xxx +/-		No. Req.		CAMBRIDGE CB3 0EZ							
				ANG. +/-		Used on									
Issue	Mod.No	Date	Drawn by	Issue	Mod.No	Date	Drawn by								
				A		21/6/93	PROMECH								

Drawing No. 861
W/BL/ 863



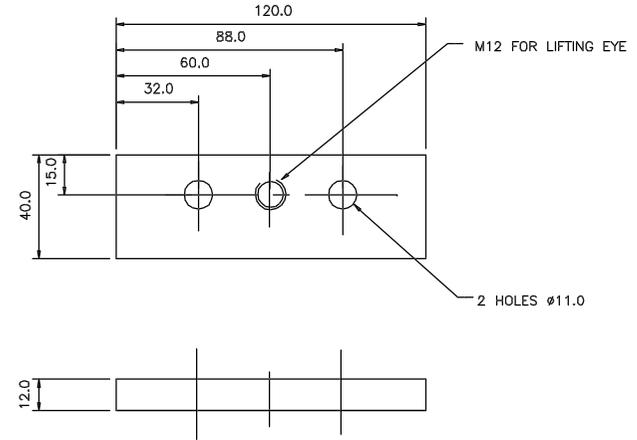
COLLARED EYE BOLT
KEY 747B063N

3		TITLE SLING ASSY.	
MATERIAL SEE DRAWING	SCALE 1	TOLERANCES x. x.x x.xx	
FINISH TO RGO SPEC.	No. RECD. PER UNIT 1	x.x x.xx	
G.A. No. V/BL/860	R.G.O.	DRAWING No. W/BL/863	

Issue	Mod.No	Date	Drawn by	Issue	Mod.No	Date	Drawn by
		22/9/94	AJW			26/5/92	PROMECH
Tolerance (Unless otherwise stated)							
x +/-							
x.x +/-							
x.xx +/-							
ANG. +/-							

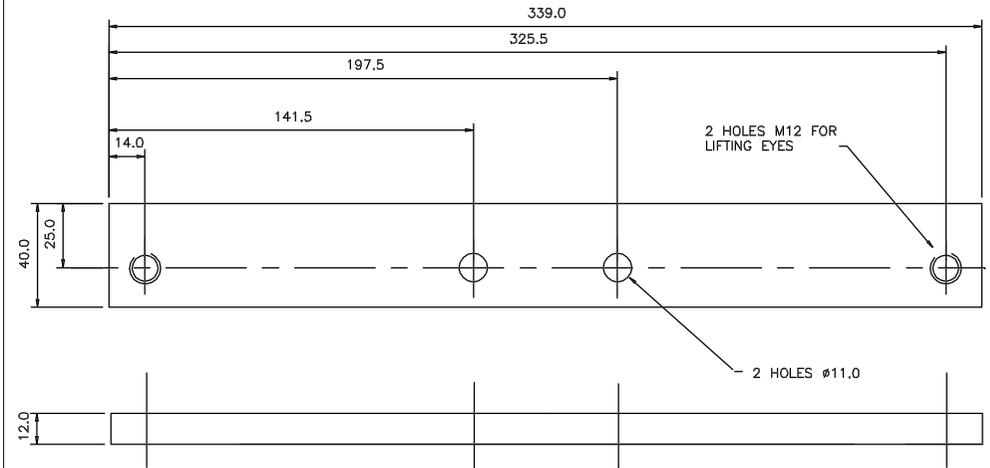
Material	Finish	Drg.No.	No.Req.	Dimns.in m.m.	Scale
				ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD CAMBRIDGE CB3 0EZ	

REMOVE ALL SHARP EDGES



2		TITLE EYE PLATE	
MATERIAL B.M.S.	SCALE FULL	TOLERANCES x. ±0.5 x.x ±0.2 x.xx ±0.1	
FINISH TO RGO SPEC.	No. RECD. PER UNIT 1	x.x x.xx	
G.A. No. V/BL/860	R.G.O.	DRAWING No. W/BL/862	

REMOVE ALL SHARP EDGES



1		TITLE OUTRIGGER	
MATERIAL B.M.S.	SCALE FULL	TOLERANCES x. ±0.5 x.x ±0.2 x.xx ±0.1	
FINISH TO RGO SPEC.	No. RECD. PER UNIT 1	x.x x.xx	
G.A. No. V/BL/860	R.G.O.	DRAWING No. W/BL/861	

THIRD ANGLE PROJECTION		Title	
		DETAILS	

GA No. V/BL/860	Drawing No. 861
	W/BL/ 863