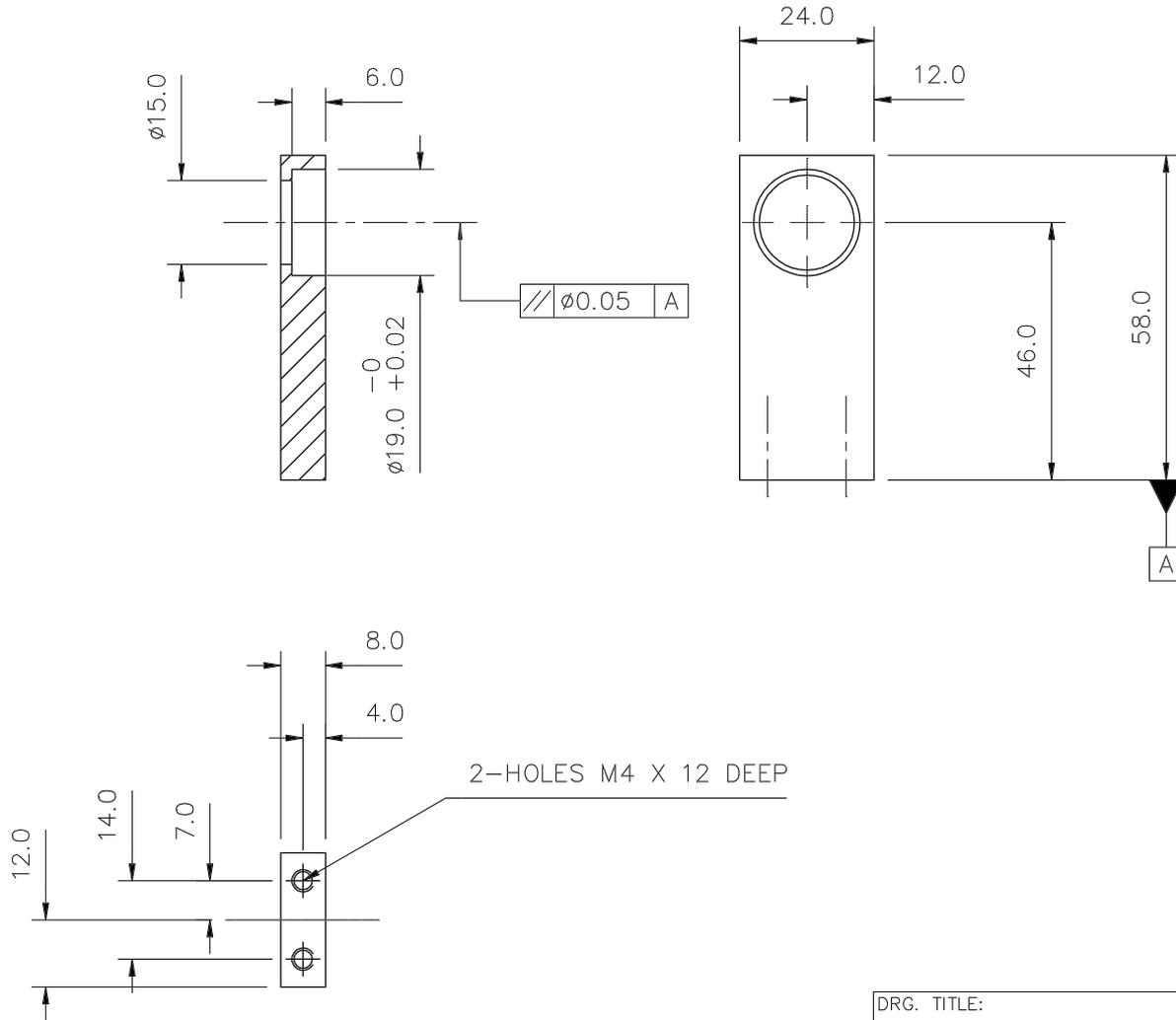
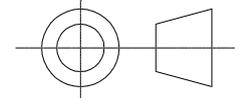


DO NOT SCALE

THIRD ANGLE PROJECTION

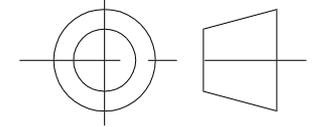


DRG. TITLE:		BEARING BLOCK	
SCALES:	1:1	ASTRONOMICAL INSTRUMENTATION GROUP DURHAM UNIVERSITY, PHYSICS DEPARTMENT SCIENCE LABS, SOUTH ROAD, DURHAM, DL1 3LE TEL. (091) 374 2107 & 2108	
DRG. TYPE:	PARTS	THIS DRAWING IS THE PROPERTY OF THE ASTRONOMICAL INSTRUMENTATION GROUP, DURHAM UNIVERSITY, PHYSICS DEPT. IT MUST NOT BE COPIED OR LENT WITHOUT THE CONSENT OF THE INSTRUMENTATION GROUP	DRG. SIZE A3
DRAWN BY:	G.D		
DATE	15/09/91	DRAWING No.	AF2\FSM-06
			REV. A

ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED			
IMPLIED TOLERANCES		Material:	
X (OVER 100)	$\pm 0.20$	AL ALLOY	
X (UP TO 100)	$\pm 0.1$	Quantity: 1 OFF	
X.X	$\pm 0.10$		
X.XX	$\pm 0.05$		
ISSUE	REVISION	DRN	DATE

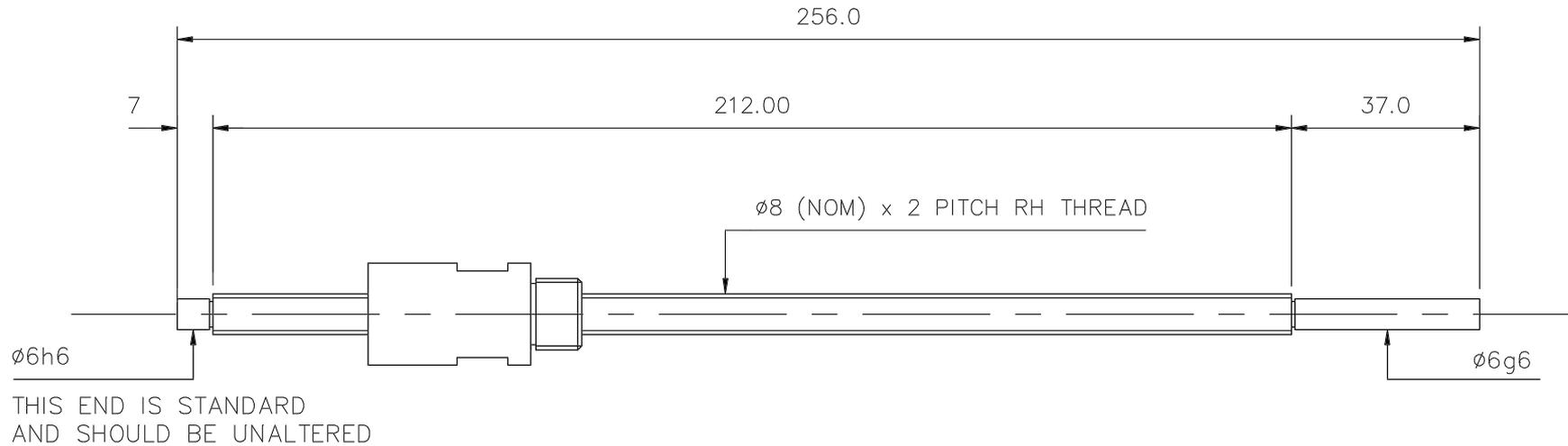
DO NOT SCALE

Third angle projection



NOTES

- 1/ ROLLED EXECUTION MINIATURE BALL SCREW AS PER STEINMEYER CATOLOGUE PAGE 20.
- 2/ JOURNAL DIAMETERS, UNDERCUTS & CHAMFERS TO BE IDENTICAL TO CODE No 1530/2.8.245.270 G.
- 3/ TO BE SUPPLIED WITH SPRING LOADED DOUBLE NUTS IN HOUSING.
- 4/ QUANTITY REQUIRED ONE ONLY.



All dimensions in mm unless otherwise stated

Implied Tolerances  
X  $\pm 0.10$   
X.X  $\pm 0.10$   
X.XX  $\pm 0.025$

Material:  
Quantity: 1 off

TITLE

$\phi 8 \times 256$  LG  
MINIATURE BALL SCREW

Drawn by: AJ / JW

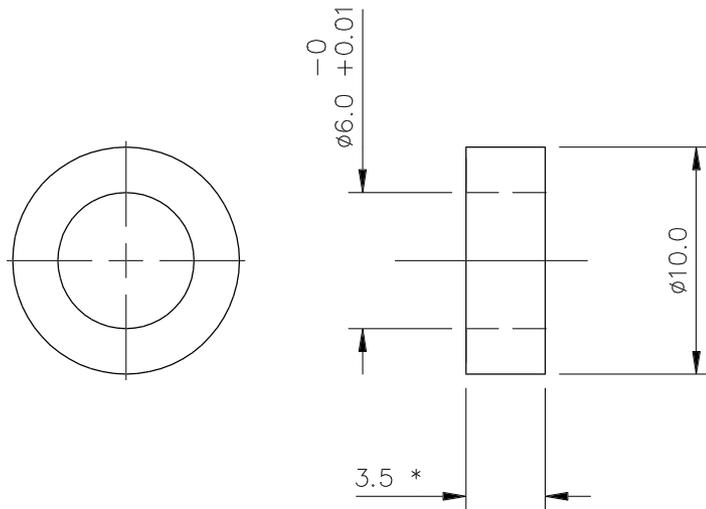
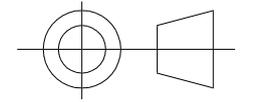
Date: 03/05/91

Drawing # FSM-BS

Astronomical Instrumentation Group  
Durham University, Physics Dept,  
Science Labs, South Rd,  
Durham, DH1 3LE.  
Tel. (091) 374 2108

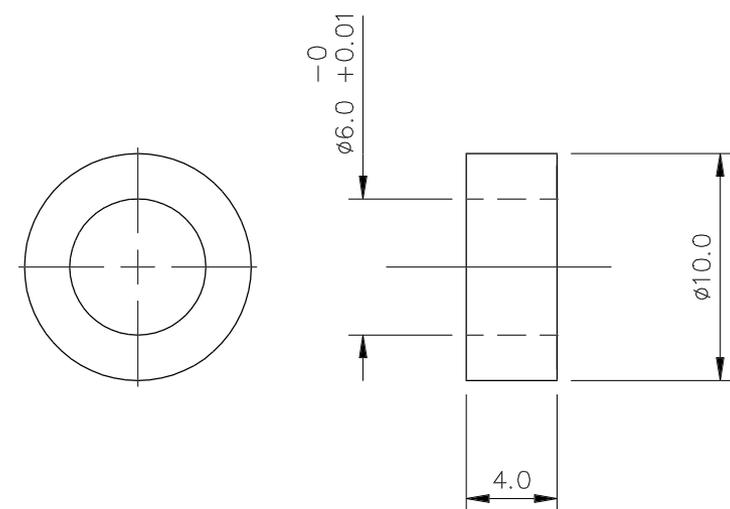
DO NOT SCALE

THIRD ANGLE PROJECTION



\* WIDTH TO BE REDUCED ON ASSEMBLY

BEARING SPACER



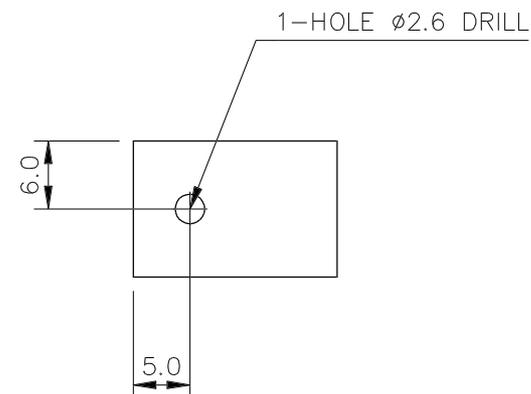
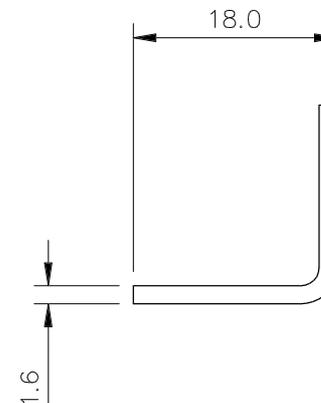
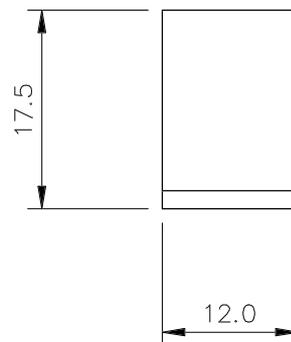
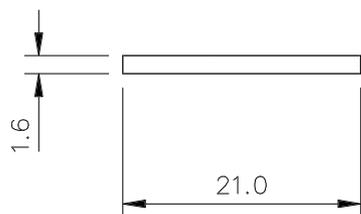
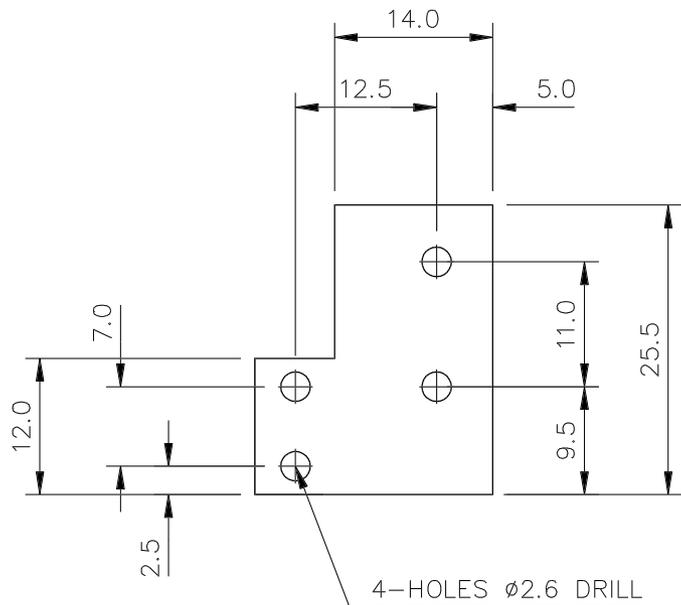
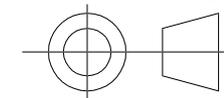
TIMING PULLEY SPACER

DRG. TITLE:		TIMING PULLEY SPACER AND BEARING SPACER	
SCALES:	4:1	ASTRONOMICAL INSTRUMENTATION GROUP DURHAM UNIVERSITY, PHYSICS DEPARTMENT SCIENCE LABS, SOUTH ROAD, DURHAM, DL1 3LE TEL. (091) 374 2107 & 2108	
DRG. TYPE:	PARTS	THIS DRAWING IS THE PROPERTY OF THE ASTRONOMICAL INSTRUMENTATION GROUP, DURHAM UNIVERSITY, PHYSICS DEPT. IT MUST NOT BE COPIED OR LENT WITHOUT THE CONSENT OF THE INSTRUMENTATION GROUP	
DRAWN BY:	G.D	DRAWING No.	
DATE	17/09/91	AF2\FSM-13/14	REV. A

ISSUE	REVISION	DRN	DATE	ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED	Material:
				IMPLIED TOLERANCES	BRASS
				X (OVER 100) ±0.20	Quantity: 1 OFF
				X (UP TO 100) ±0.1	
				X.X ±0.10	
				X.XX ±0.05	

DO NOT SCALE

THIRD ANGLE PROJECTION



FSM-10  
QUANTITY - 1 OFF

FSM-11  
QUANTITY - 2 OFF

DRG. TITLE:		OPTO SWITCH BRACKET AND OPTO SWITCH FLAG	
SCALES:		2:1	ASTRONOMICAL INSTRUMENTATION GROUP DURHAM UNIVERSITY, PHYSICS DEPARTMENT SCIENCE LABS, SOUTH ROAD, DURHAM, DL1 3LE TEL. (091) 374 2107 & 2108
DRG. TYPE:		PARTS	THIS DRAWING IS THE PROPERTY OF THE ASTRONOMICAL INSTRUMENTATION GROUP, DURHAM UNIVERSITY, PHYSICS DEPT. IT MUST NOT BE COPIED OR LENT WITHOUT THE CONSENT OF THE INSTRUMENTATION GROUP
DRAWN BY:		JW	
DATE:		31/05/91	DRAWING No.
		AF2\FSM-10/11	REV. A

ISSUE	REVISION	DRN	DATE

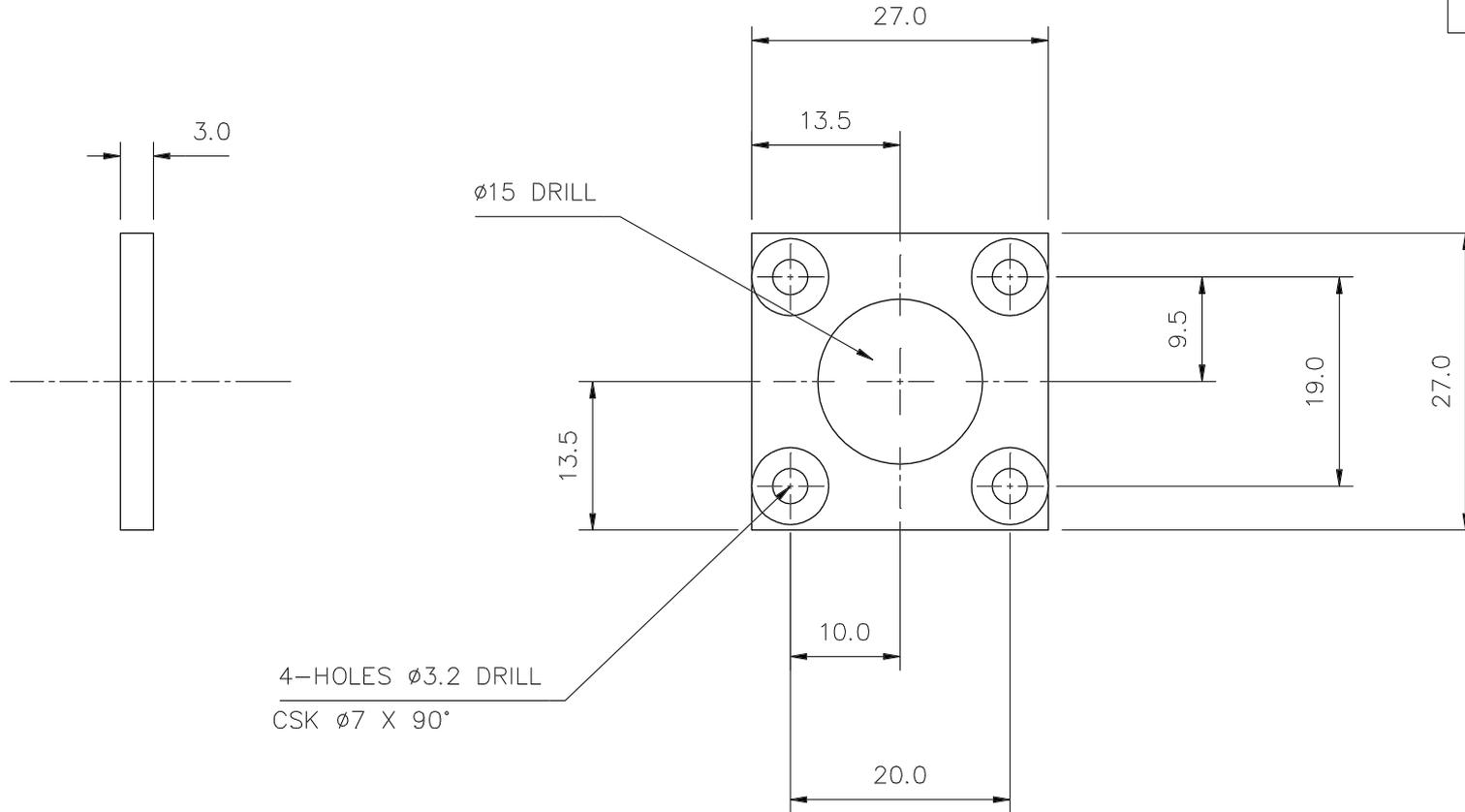
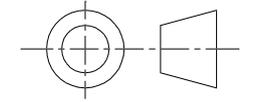
ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED

IMPLIED TOLERANCES  
X (OVER 100)  $\pm 0.20$   
X (UP TO 100)  $\pm 0.1$   
X.X  $\pm 0.10$   
X.XX  $\pm 0.05$

Material:  
**AL ALLOY**  
Quantity:

DO NOT SCALE

THIRD ANGLE PROJECTION



4-HOLES  $\phi 3.2$  DRILL  
CSK  $\phi 7$  X  $90^\circ$

DRG. TITLE:		BERAING COVER PLATE	
SCALES:	2:1	ASTRONOMICAL INSTRUMENTATION GROUP DURHAM UNIVERSITY, PHYSICS DEPARTMENT SCIENCE LABS, SOUTH ROAD, DURHAM, DL1 3LE TEL. (091) 374 2107 & 2108	
DRG. TYPE:	PARTS	THIS DRAWING IS THE PROPERTY OF THE ASTRONOMICAL INSTRUMENTATION GROUP, DURHAM UNIVERSITY, PHYSICS DEPT. IT MUST NOT BE COPIED OR LENT WITHOUT THE CONSENT OF THE INSTRUMENTATION GROUP	DRG. SIZE
DRAWN BY:	G.D		A3
DATE	17/09/91	DRAWING No.	REV.
		AF2\FSM-09	A

ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED

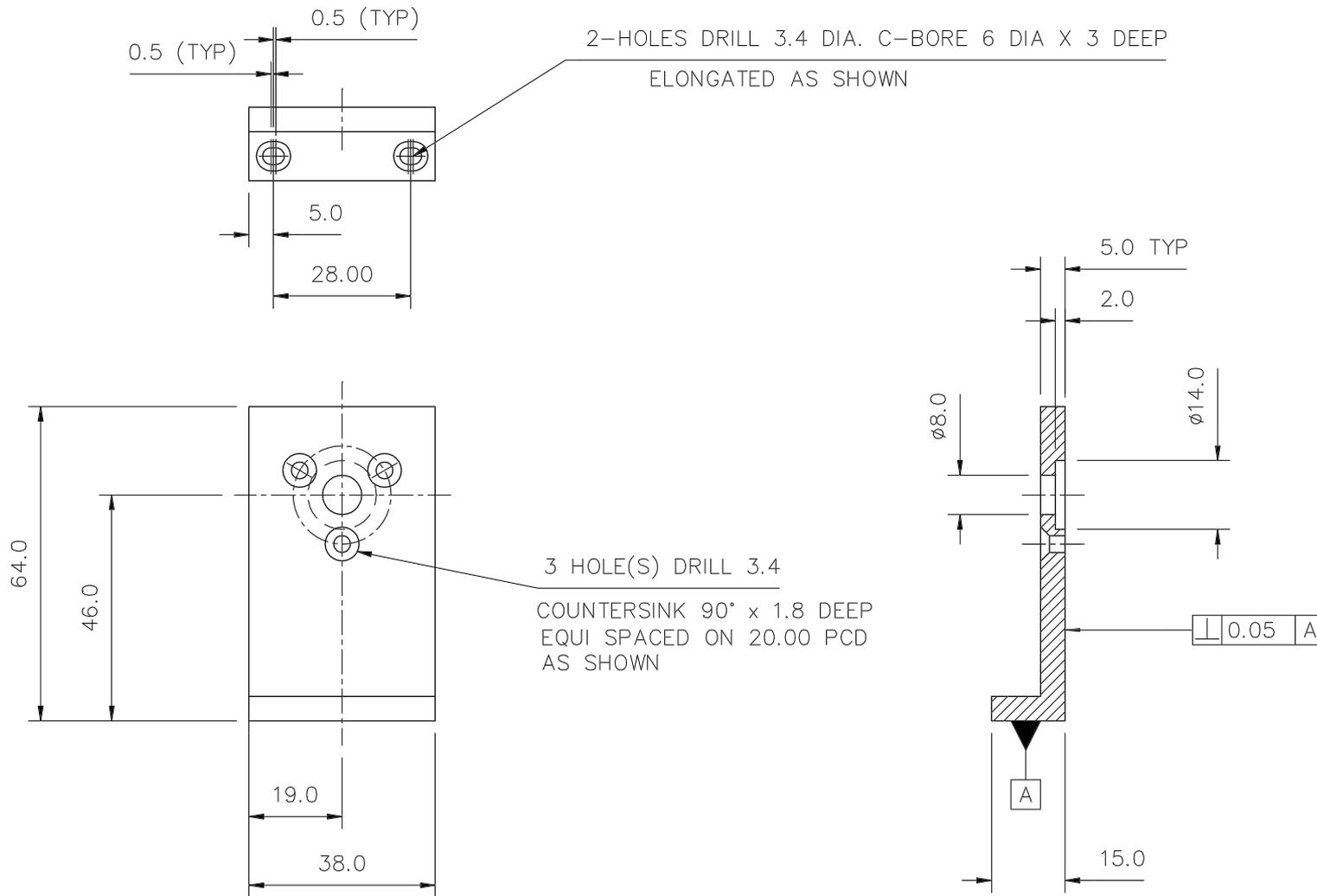
IMPLIED TOLERANCES  
X (OVER 100)  $\pm 0.20$   
X (UP TO 100)  $\pm 0.1$   
X.X  $\pm 0.10$   
X.XX  $\pm 0.05$

Material:  
**AL ALLOY**  
Quantity: 1 OFF

ISSUE	REVISION	DRN	DATE

DO NOT SCALE

THIRD ANGLE PROJECTION

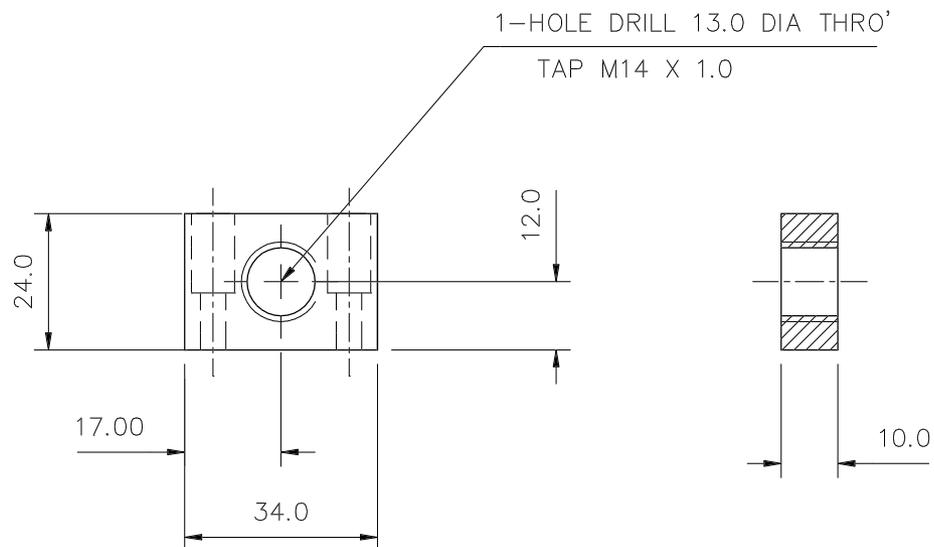
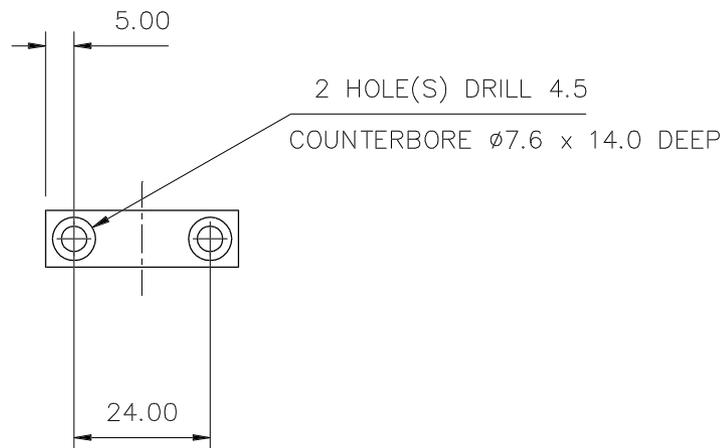
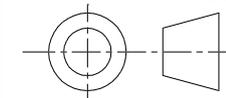


DRG. TITLE:		<b>DETAIL OF MOTOR MOUNTING BRACKET</b>	
SCALES:		<b>1:1</b>	ASTRONOMICAL INSTRUMENTATION GROUP DURHAM UNIVERSITY, PHYSICS DEPARTMENT SCIENCE LABS, SOUTH ROAD, DURHAM, DL1 3LE TEL. (091) 374 2107 & 2108
DRG. TYPE:		PARTS	THIS DRAWING IS THE PROPERTY OF THE ASTRONOMICAL INSTRUMENTATION GROUP, DURHAM UNIVERSITY, PHYSICS DEPT. IT MUST NOT BE COPIED OR LENT WITHOUT THE CONSENT OF THE INSTRUMENTATION GROUP
DRAWN BY:		AJ/GD	
DATE:		21/03/91	DRAWING No.
		AF2\FSM-08	REV. A

ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED			
IMPLIED TOLERANCES		Material:	
	X (OVER 100) ±0.20	<b>AL ALLOY</b>	
	X (UP TO 100) ±0.1		
	X.X ±0.10		
	X.XX ±0.05		
ISSUE	REVISION	DRN	DATE
			Quantity: 1 OFF

DO NOT SCALE

THIRD ANGLE PROJECTION



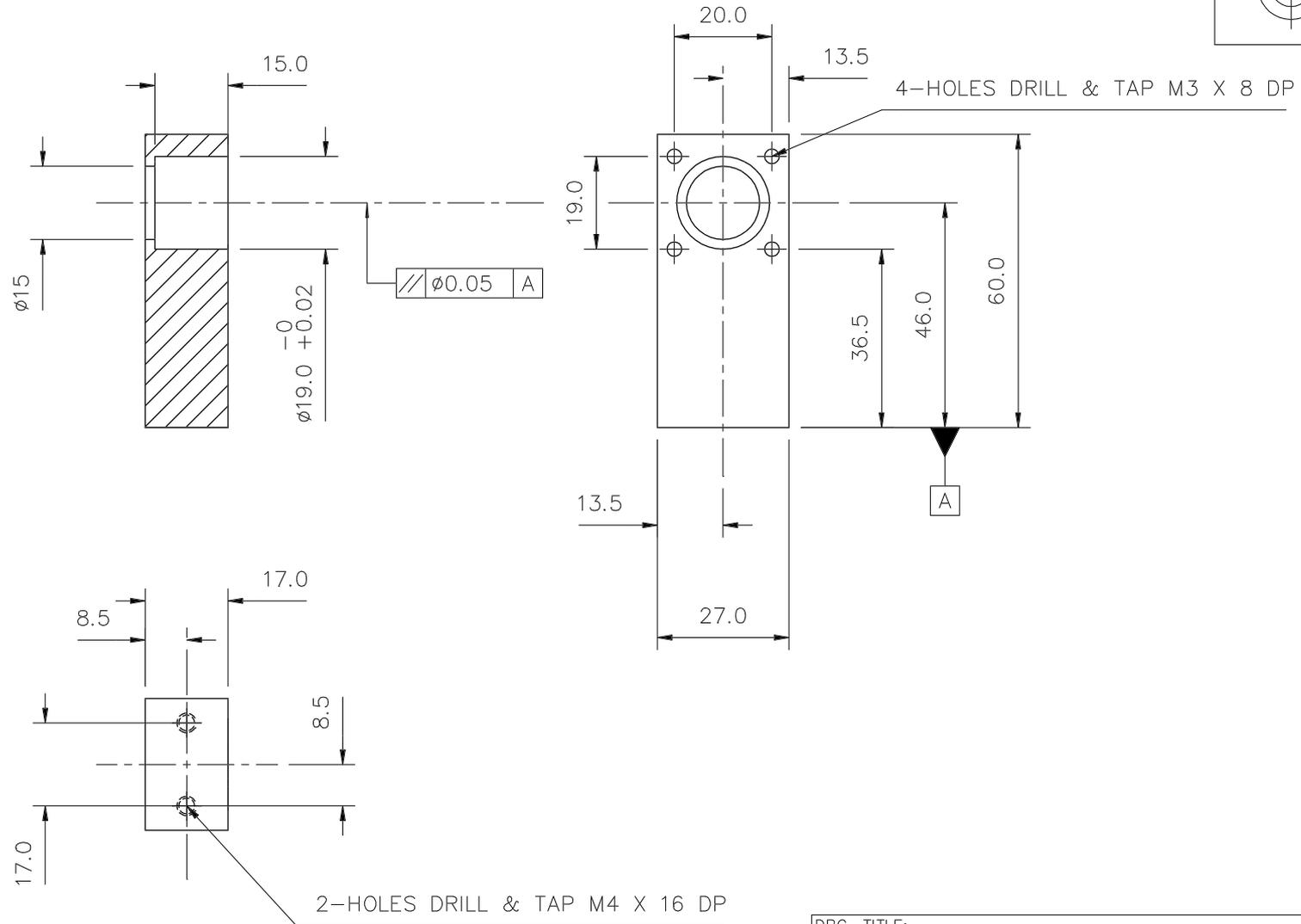
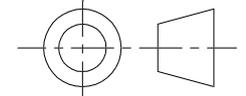
DRG. TITLE:		DETAIL OF BALLSCREW NUT RETAINER BLOCK	
SCALES:	1:1	ASTRONOMICAL INSTRUMENTATION GROUP DURHAM UNIVERSITY, PHYSICS DEPARTMENT SCIENCE LABS, SOUTH ROAD, DURHAM, DL1 3LE TEL. (091) 374 2107 & 2108	
DRG. TYPE:	PARTS	THIS DRAWING IS THE PROPERTY OF THE ASTRONOMICAL INSTRUMENTATION GROUP, DURHAM UNIVERSITY, PHYSICS DEPT. IT MUST NOT BE COPIED OR LENT WITHOUT THE CONSENT OF THE INSTRUMENTATION GROUP	DRG. SIZE A3
DRAWN BY:	AJ/GD		
DATE	22/03/91	DRAWING No.	REV. A
		AF2\FSM-07	

ISSUE	REVISION	DRN	DATE	ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED	Material:
				IMPLIED TOLERANCES	AL ALLOY
				X (OVER 100) ±0.20	Quantity: 1 OFF
				X (UP TO 100) ±0.1	
				X.X ±0.10	
				X.XX ±0.05	



DO NOT SCALE

THIRD ANGLE PROJECTION



DRG. TITLE:		DETAIL OF BEARING BLOCK	
SCALES:	1:1	ASTRONOMICAL INSTRUMENTATION GROUP DURHAM UNIVERSITY, PHYSICS DEPARTMENT SCIENCE LABS, SOUTH ROAD, DURHAM, DL1 3LE TEL. (091) 374 2107 & 2108	
DRG. TYPE:	PARTS	THIS DRAWING IS THE PROPERTY OF THE ASTRONOMICAL INSTRUMENTATION GROUP, DURHAM UNIVERSITY, PHYSICS DEPT. IT MUST NOT BE COPIED OR LENT WITHOUT THE CONSENT OF THE INSTRUMENTATION GROUP	DRG. SIZE A3
DRAWN BY:	G.D		
DATE	16/09/91	DRAWING No.	AF2\FSM-05
ISSUE	REVISION	DRN	DATE

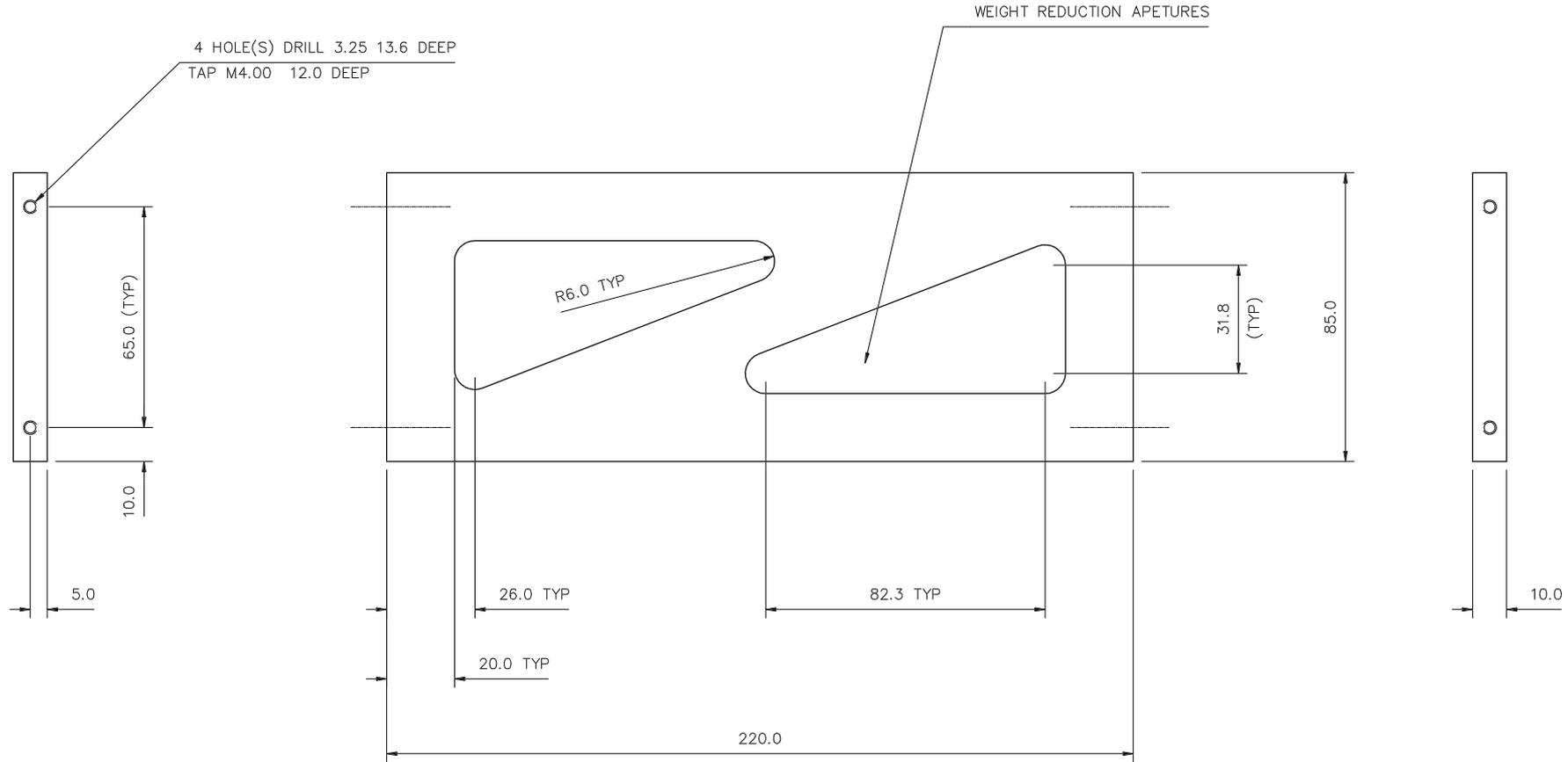
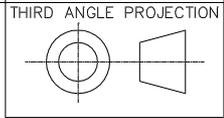
ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED

IMPLIED TOLERANCES  
 X (OVER 100)  $\pm 0.20$   
 X (UP TO 100)  $\pm 0.1$   
 X.X  $\pm 0.10$   
 X.XX  $\pm 0.05$

Material:  
**AL ALLOY**  
 Quantity: 1 OFF

REV.  
 A

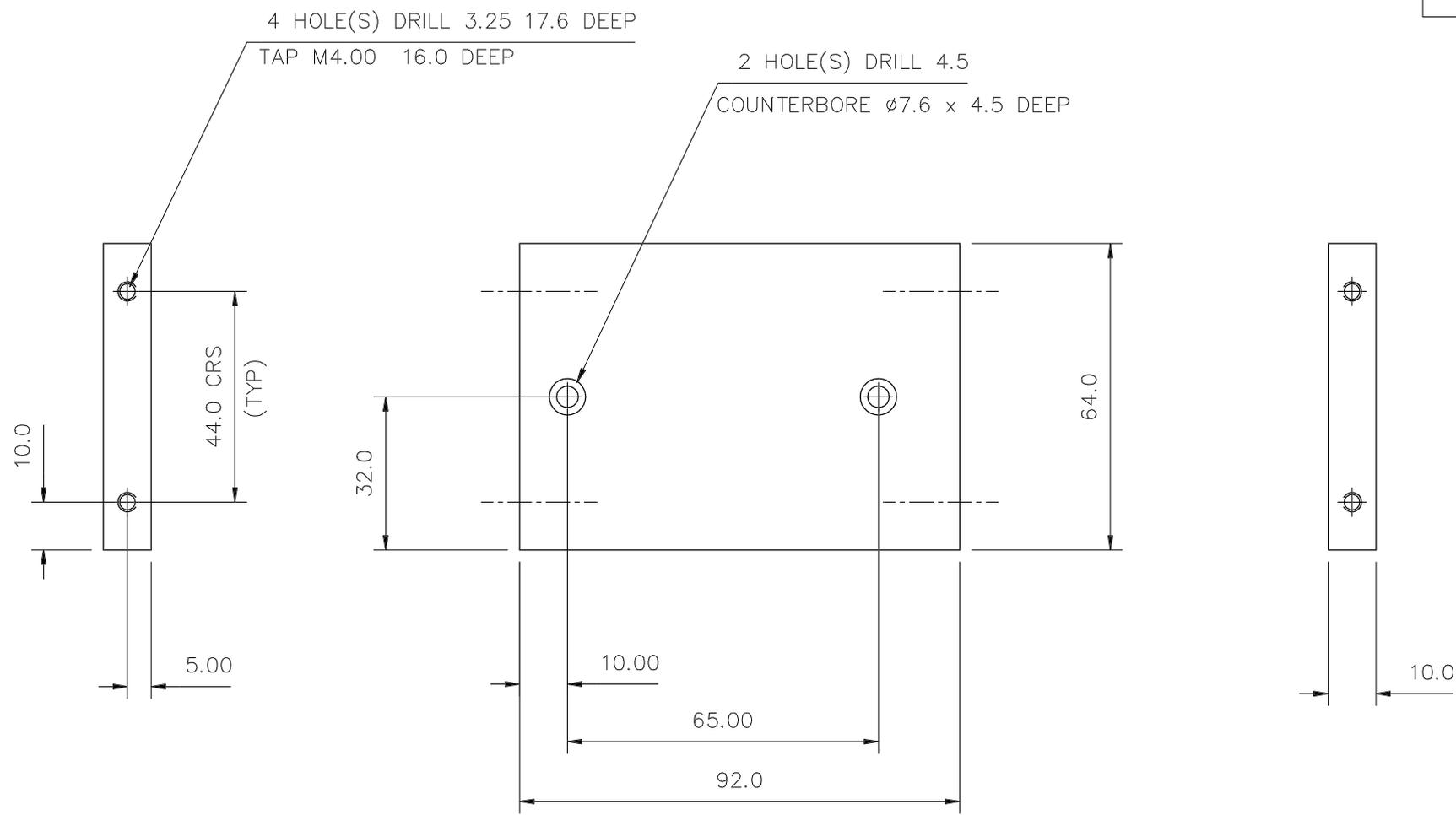
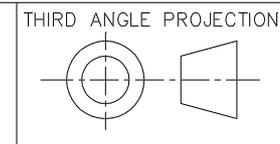
DO NOT SCALE



DRG. TITLE:		DETAIL OF GUSSET PLATE	
SCALES:	1:1	ASTRONOMICAL INSTRUMENTATION GROUP DURHAM UNIVERSITY, PHYSICS DEPARTMENT SCIENCE LABS, SOUTH ROAD, DURHAM, DL1 3LE TEL. (091) 374 2107 & 2108	
DRG. TYPE:	PARTS	THIS DRAWING IS THE PROPERTY OF THE ASTRONOMICAL INSTRUMENTATION GROUP, DURHAM UNIVERSITY, PHYSICS DEPT. IT MUST NOT BE COPIED OR LENT WITHOUT THE CONSENT OF THE INSTRUMENTATION GROUP.	
DRAWN BY:	AJ/GD	DRAWING No.	A2
DATE	21/03/91	AF2\FSM-04	REV. A

ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED									
IMPLIED TOLERANCES									
X (OVER 100) ±0.20									
X (UP TO 100) ±0.1									
X.X ±0.10									
X.XX ±0.05									
Material:					AL ALLOY				
Quantity: 1 OFF									
ISSUE	REVISION	DRN	DATE	ISSUE	REVISION	DRN	DATE		

DO NOT SCALE

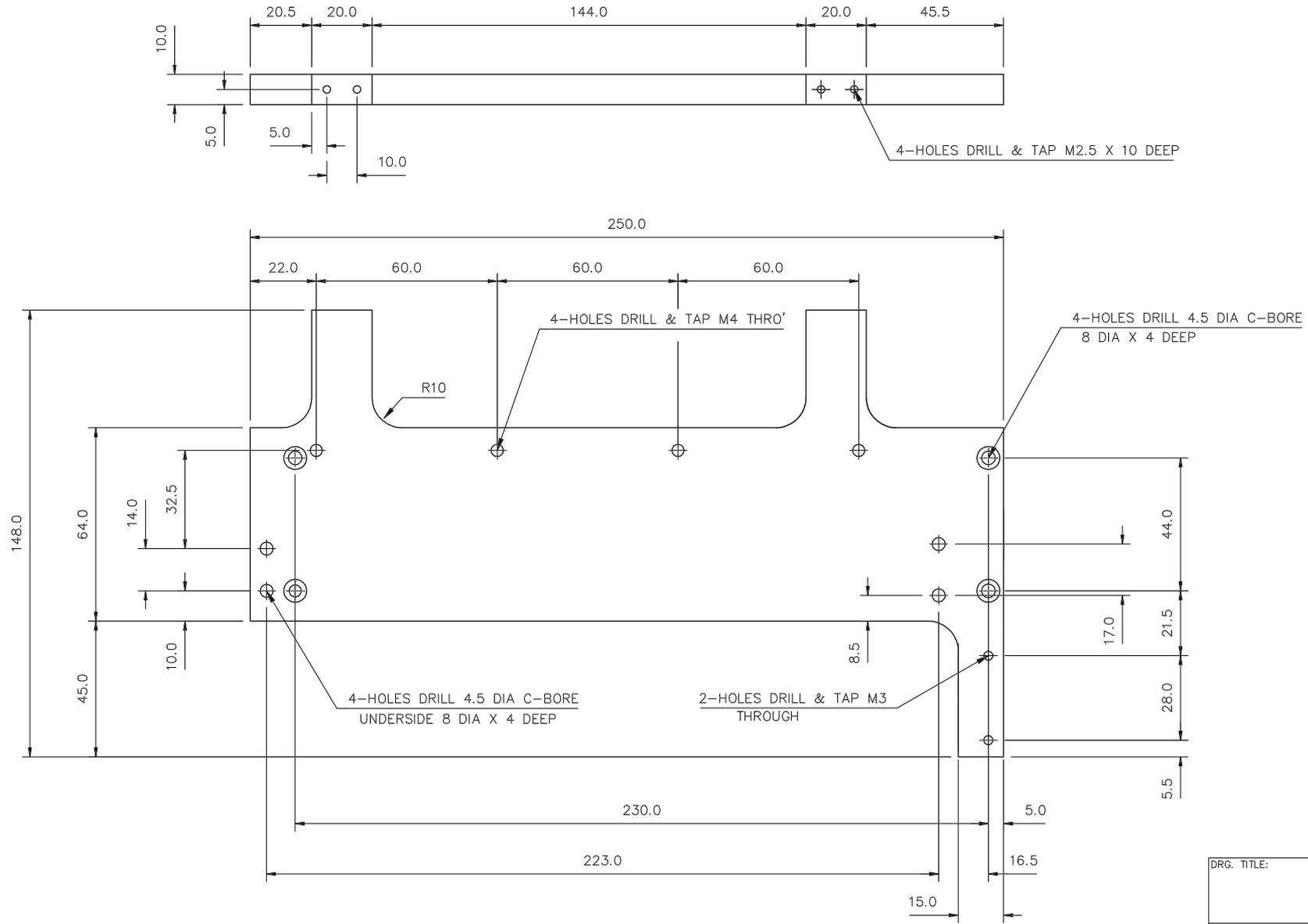
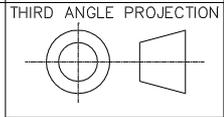


DRG. TITLE:		DETAIL OF SUPPORT PLATE	
SCALES:	1:1	ASTRONOMICAL INSTRUMENTATION GROUP DURHAM UNIVERSITY, PHYSICS DEPARTMENT SCIENCE LABS, SOUTH ROAD, DURHAM, DL1 3LE TEL. (091) 374 2107 & 2108	
DRG. TYPE:	PARTS	THIS DRAWING IS THE PROPERTY OF THE ASTRONOMICAL INSTRUMENTATION GROUP, DURHAM UNIVERSITY, PHYSICS DEPT. IT MUST NOT BE COPIED OR LENT WITHOUT THE CONSENT OF THE INSTRUMENTATION GROUP	DRG. SIZE A3
DRAWN BY:	GD		DRAWING No.
DATE	16/09/91	AF2\FSM-03	REV. A

ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED			
IMPLIED TOLERANCES		Material:	
X (OVER 100) ±0.20		AL ALLOY	
X (UP TO 100) ±0.1		Quantity: 2 OFF	
X.X ±0.10			
X.XX ±0.05			
ISSUE	REVISION	DRN	DATE



DO NOT SCALE



DRG. TITLE:		<b>BASE PLATEL DETAIL</b>	
SCALES:	<b>1:1</b>	ASTRONOMICAL INSTRUMENTATION GROUP DURHAM UNIVERSITY, PHYSICS DEPARTMENT SCIENCE LABS, SOUTH ROAD, DURHAM, DL1 3LE TEL. (091) 374 2107 & 2108	
DRG. TYPE:	PARTS	THIS DRAWING IS THE PROPERTY OF THE ASTRONOMICAL INSTRUMENTATION GROUP, DURHAM UNIVERSITY, PHYSICS DEP IT MUST NOT BE COPIED OR LENT WITHOUT THE CONSENT OF THE INSTRUMENTATION GROUP.	
DRAWN BY:	AJ/GD	DRAWING No. <b>A2</b>	
DATE	17/06/91	<b>AF2\FSM-01</b>	
Material:		REV. <b>A</b>	
AL ALLOY		Quantity: 1 OFF	

ISSUE	REVISION	DRN	DATE	ISSUE	REVISION	DRN	DATE

ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED

IMPLIED TOLERANCES

X (OVER 100) ±0.20

X (UP TO 100) ±0.1

X.X ±0.10

X.XX ±0.05