



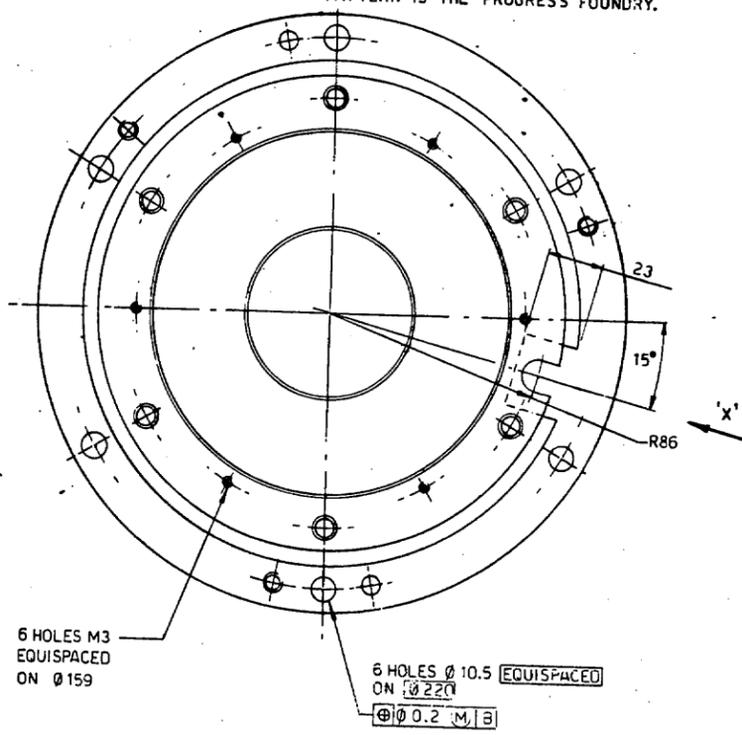
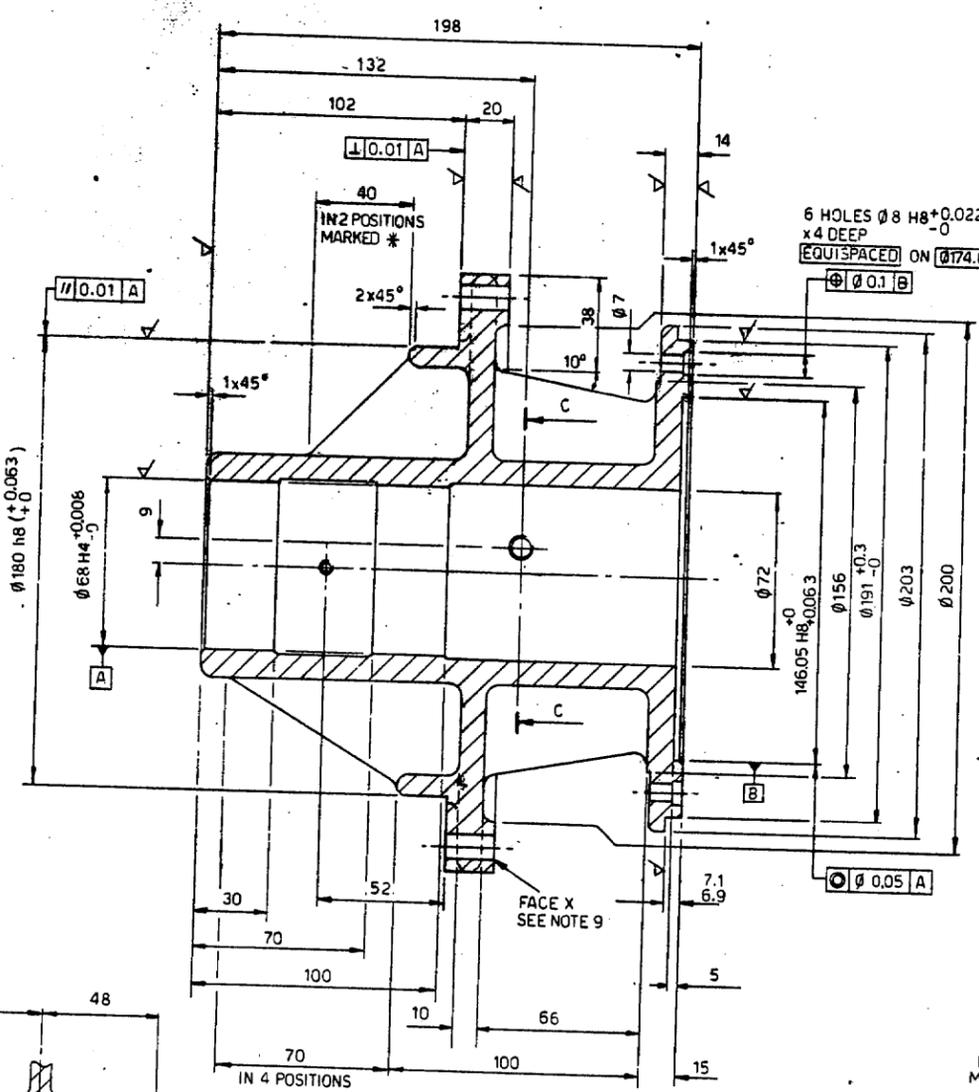
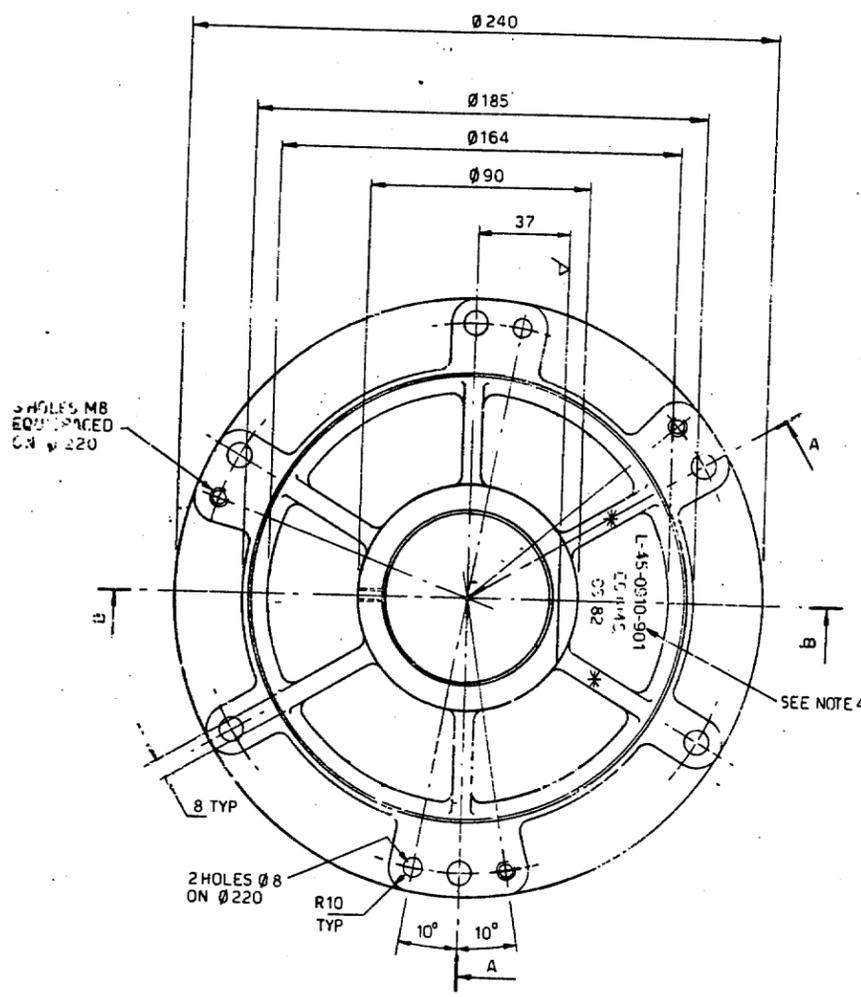
SECURITY CLASSIFICATION  
SERVICES DRG No  
FIRST USED ON L-45-0909

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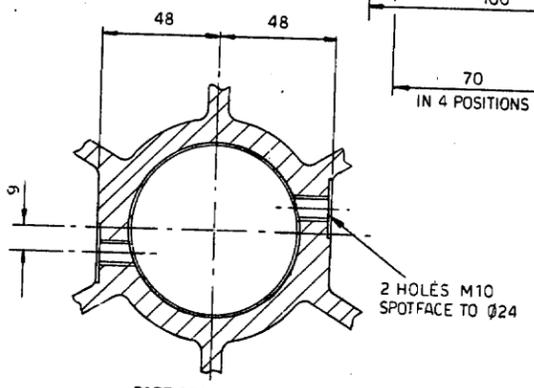
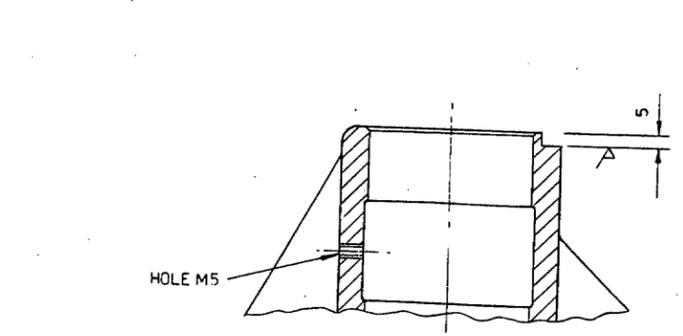
3rd ANGLE PROJECTION

DO NOT SCALE PRINT  
180 MILLIMETRES FULL SIZE

ALL CHANGES TO THIS DOCUMENT ARE LISTED ON



- NOTES
1. ALL UNSPECIFIED CASTING RADII TO BE R5.
  2. ALL DRAUGHT ANGLES TO BE 1.5°.
  3. CASTING TO BE IN ACCORDANCE WITH BS1452:1977.
  4. PATTERN No L-45-0910-901, FOUNDERS INITIALS, MONTH & YEAR OF MANUFACTURE TO BE CAST IN POSITION SHOWN IN RAISED CHARACTERS.
  5. CASTING TO BE STRESS RELIEVED BEFORE MACHINING BY HEATING TO 600°C, HELD AT THAT TEMP FOR 2 HOURS THEN COOLED SLOWLY IN THE OVEN. FURTHER STRESS RELIEVING MAY BE CARRIED OUT AFTER ROUGH MACHINING AT THE DISCRETION OF THE CONTRACTOR.
  6. REMOVE ALL BURRS AND SHARP EDGES.
  7. SUGGEST SUPPLIER WHO ALSO HOLDS THE PATTERN IS :-
  8. MACHINED SURFACES & TAPPED HOLES TO BE FREE FROM PAINT.
  9. FACE 'X' TO BE SQUARE TO BORE 'A' TO WITHIN 5 ARC SECONDS
  10. SUGGESTED SUPPLIER WHO ALSO HOLDS THE PATTERN IS THE PROGRESS FOUNDRY.



'AS MADE' DWG.

APPROVED  
No. L-45-0909 Rev. B  
Date 11-5-1982 by JZ

4.2 METRE WILLIAM HERSCHEL TELESCOPE  
FOR  
OBSERVATORIO DEL ROQUE DE LOS MUCHACHOS  
LA PALMA  
AND  
ROYAL GREENWICH OBSERVATORY

CHECKED  
M.J. EDWARDS  
APPROVED  
W. J. B. JONES  
APPROVED (PROD)  
ISSUED BY JLB  
CONTROL D.O.

UNLESS OTHERWISE STATED, SCREW THREADS TO BE ISO METRIC COARSE PITCH, MEDIUM CLASS TO BS 3643, PART 2.

DWG. IN mm	MATERIAL GREY CAST IRON TO BS 1452:1977 GRADE 220	MARCONI SPEC	FINISH AS L-45-0910-50 SEE NOTE 8
ORIGINAL SCALE 1:1	PATTERN NO L-45-0910-901		

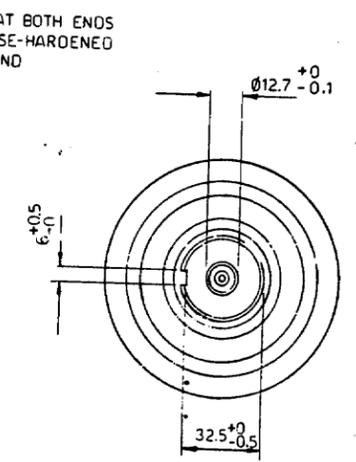
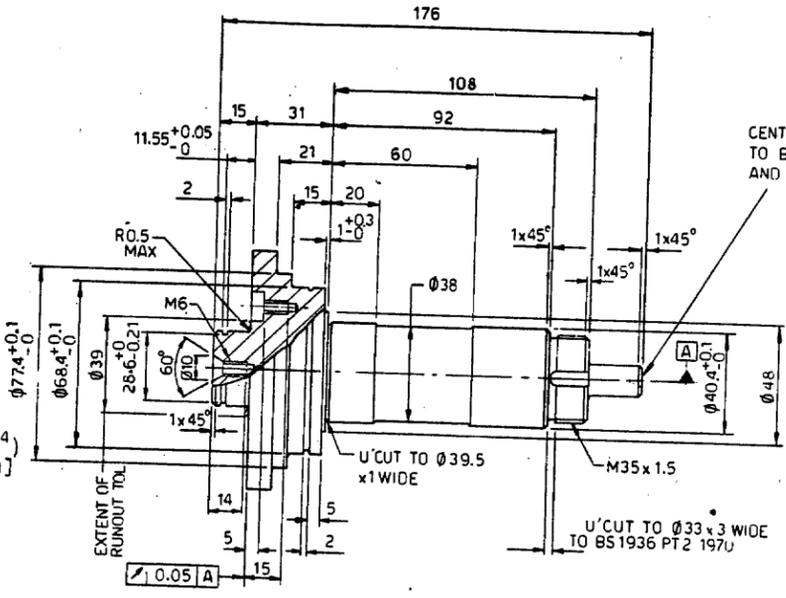
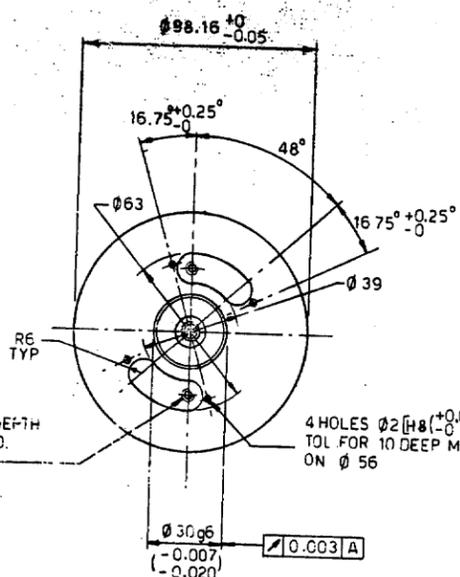
MARCONI SPEC	TOLERANCES, UNLESS OTHERWISE STATED: ±1 CASTING DIMS ±0.3 MACHINING DIMS
--------------	--

IDENTITY L-45-0910-50 AS DRAWN  
MARCONI RADAR SYSTEMS LIMITED  
CHELMSFORD & LEICESTER, ENGLAND

SECURITY CLASSIFICATION	MARCONI DRAWING No L-45-0910
TITLE N.H.O. TELESCOPE GEARCASE CASTING	SERVICES DRAWING No

ASSOCIATED ITEMS AVAILABLE FOR THIS DRAWING	MARK SUFFIX
REVISION RECORD	C
DRAWING LIST	J
ITEM LIST	K
TEST SPEC	L
WORKING LIST	N
CUT DIAGRAM	Z
SAFETY WARNINGS	NO

IDENTITY	TA L-45-0911-01
MAAG QUALITY	50
NUMBER OF TEETH	22
MODULE	4
BASIC RACK PROFILE	MAAG
REFERENCE PRESSURE ANGLE	15°
TOP LAND WIDTH OF TOOL	-
TIP RADIUS OF TOOL	-
BOTTOM CLEARANCE	-
ADDENDUM MODIFICATION COEFFICIENT	+0.27
BACKLASH ALLOWANCE	0.2 TO 0.25
OUTSIDE DIAMETER	98.16
REFERENCE (PITCH CIRCLE) DIAMETER	88 REFERENCE 90.16 ACTUAL
BASE CIRCLE DIAMETER	85.001
ROOT DIAMETER	78.96 NOM
FACE WIDTH	20
HELIX ANGLE	ZERO
FINISH OF GEAR TEETH	ZERO
BASE	CUT
TANGENT	GROUND
LENGTH	No. TEETH MEASURED OVER
ADDENDUM PITCH DIFFERENCE	0.002
CUMULATIVE PITCH ERROR	0.011
TOOTH PROFILE ERROR	0.002
TOOTH ALIGNMENT ERROR	0.002
TOOTH DIAL RUN OUT	0.013
TOOTH PROFILE MODIFICATION (TIP RELIEF)	ZERO
TOOTH LONGITUDINAL MODIFICATION (CROWNING)	ZERO
MATING GEAR	NUMBER OF TEETH
	NOMINAL CENTRE DISTANCE
	BACKLASH



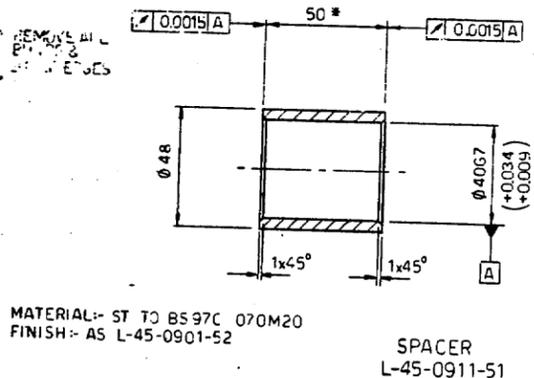
TA PINION (BLK)  
L-45-0911-50

MATERIAL:- ST. TO BS 970 832 M13  
FINISH:- AS L-45-0901-52.

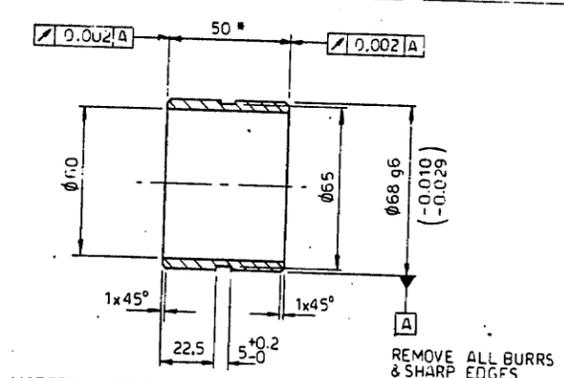
1. REMOVE ALL BURRS AND SHARP EDGES.
2. ALL UNSPECIFIED RADII:-R1.

NOTES

NO.	DATE
1	EI NCC 1-0005
2	EINCC1 0005/1 19-1-82
3	EI NCC 1 0008/1 27-8-82

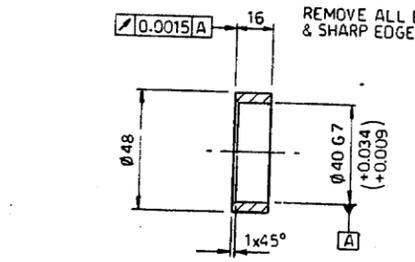


SPACER  
L-45-0911-51



SPACER  
L-45-0911-52

NOTE! ENDS OF SPACERS (-51 & -52) ARE TO BE MACHINED TOGETHER SO THAT OVERALL LENGTHS INDICATED THUS \* ARE IDENTICAL.

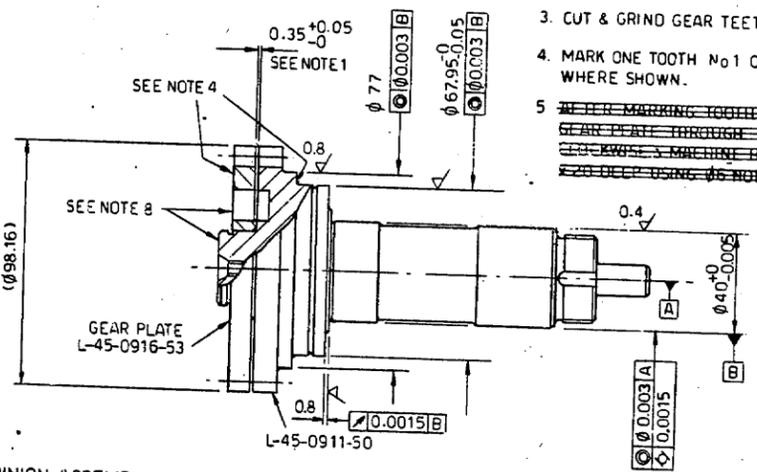
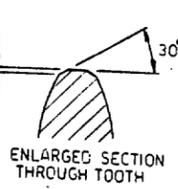
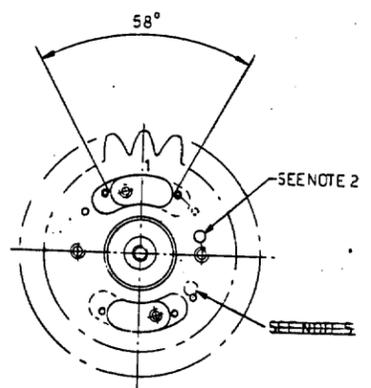


SPACER  
L-45-0911-53

NOTE. TEETH & MACHINED SURFACES TO BE FINISH GROUND BY MAAG

6. MASK OFF ALL AREAS EXCEPT TEETH AFTER GEAR CUTTING AND CASEHARDEN TO L-45-0902-50 PRIOR TO GRINDING.
7. REMOVE ALL BURRS & SHARP EDGES.
8. MATCH MARK GEARS IN PAIRS.

1. CLAMP GEAR PLATES TOGETHER TO ANGULAR DIM SHOWN USING SPACER 0.35 TO 0.4 THK
2. USING PILCT HOLE IN GEAR PLATE MACHINE HOLE Ø6 H8 (+0.018/-0) x 20 DEEP & FIT SPLIT PIN Ø6 x 20 Lg MF600102-620.
3. CUT & GRIND GEAR TEETH TO DIMS IN TABLE.
4. MARK ONE TOOTH No 1 ON OUTER FACE WHERE SHOWN.
5. REFER MARKING TOOTH TO NOTE 4 TO MARK GEAR PLATE THROUGH 65.4° TO TEETH. TO MARK & MACHINE HOLE Ø6 H8 (+0.018/-0) x 20 DEEP USING Ø6 H8 (+0.018/-0) HOLE IN GEAR PLATE.



TA PINION ASSEMBLY  
L-45-0911-01

FINISH:- AS L-45-0901-52

**AS MADE' DWG.**

4.2 METRE WILLIAM HERSCHEL TELESCOPE  
FOR  
OBSERVATORIO DEL ROQUE DE LOS MUCHACHOS  
LA PALMA  
AND  
ROYAL GREENWICH OBSERVATORY

FRESHMAN FOX & PARTNERS  
**APPROVED**  
No. L-45-0911 Rev. B  
Date: 11-5-1982

ASSOCIATED ITEMS AVAILABLE FOR THIS DRAWING

ITEM NO.	DESCRIPTION	MARK
1	DRAWING LIST	C
2	ITEM LIST	J
3	TEST SPEC	L
4	WIRING LIST	M
5	DET. DIAGRAM	N
6	SAFETY WARNINGS	NO

CHECKED	APPROVED	APPROVED (PRINT)
J. EDWARDS	[Signature]	[Signature]
ISSUED BY	CONTROL D.O.	
J.L.B.		

UNLESS OTHERWISE STATED SCREW THREADS TO BE ISO METRIC COARSE PITCH MEDIUM CLASS TO BS 3643, PART 2

DIMS IN	MATERIAL	MARCONI SPEC.	FINISH	MARCONI SPEC.	TOLERANCES, UNLESS OTHERWISE STATED
m m	SEE ABOVE	SEE ABOVE	SEE ABOVE	SEE ABOVE	± 0.3
ORIGINAL SCALE					
1:1					

MARCONI RADAR SYSTEMS LIMITED  
CHELMSFORD & LEICESTER, ENGLAND

SECURITY CLASSIFICATION

MARCONI DRAWING No. (PARTS 01, 50-53)

DETAILS

L-45-0911

SECURITY CLASSIFICATION  
SERVICES DRG No  
FIRST USED ON L-45-0920

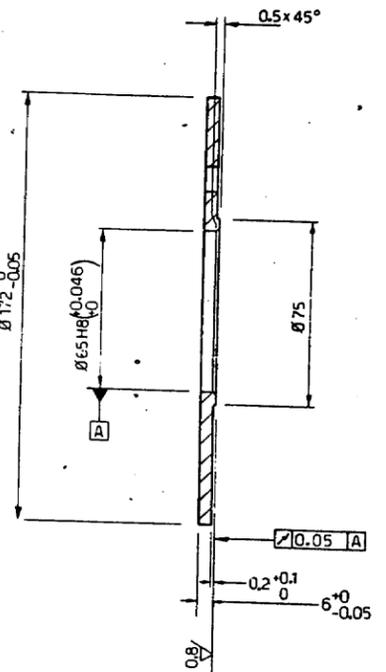
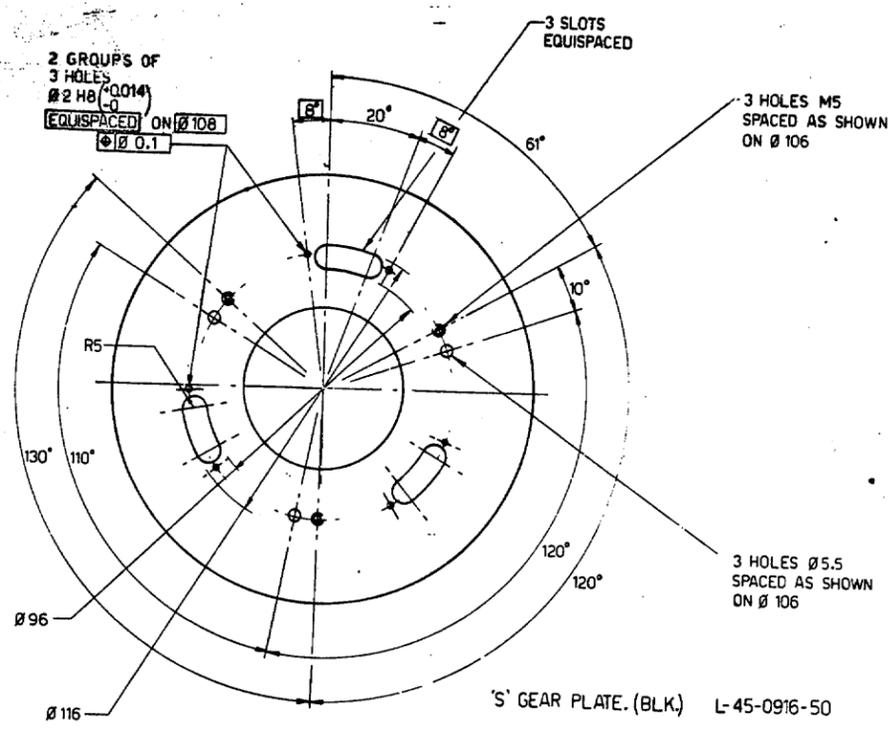
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3rd ANGLE PROJECTION

DO NOT SCALE PRINT  
160 MILLIMETRES FULL SIZE

ALL CHANGES TO THIS DOCUMENT ARE LISTED ON NOTES

IDENTITY		L-45-0916-50 (S)	L-45-0916-01 (S)	L-45-0916-52 (T)	L-45-0916-02 (T)	L-45-0916-54 (R)
MAAG QUALITY		S2	S2	S0	S0	S2
NUMBER OF TEETH		170	170	22	22	21
MODULE		1	1	4	4	1
BASIC RACK PROFILE		—	—	MAAG	MAAG	—
REFERENCE PRESSURE ANGLE		20°	20°	15°	15°	20°
TOP LAND WIDTH OF TOOL		—	—	—	—	—
TIP RADIUS OF TOOL		—	—	—	—	—
BOTTOM CLEARANCE		—	—	—	—	—
ADDENDUM MODIFICATION COEFFICIENT		ZERO	ZERO	0.27	0.27	ZERO
BACKLASH ALLOWANCE		0.05 TO 0.08	0.05 TO 0.08	0.2 TO 0.25	0.2 TO 0.25	ZERO
OUTSIDE DIAMETER		172	172	98.16	98.16	0.05 TO 0.08
REFERENCE (PITCH CIRCLE) DIAMETER		170	170	98.16	98.16	23
BASE CIRCLE DIAMETER		159.74	159.74	85.001	85.001	21
ROOT DIAMETER		167.2 NOM	167.2 NOM	78.96 NOM	78.96 NOM	18.2 NOM
FACE WIDTH		12	12	20	20	16
HELIX ANGLE		ZERO	ZERO	ZERO	ZERO	ZERO
FINISH OF GEAR TEETH		0.8 CLA				
TANGENT	CUT	57.25	57.25	19.63	31.77	7.92
	GROUND	56.995	56.995	19.29	31.43	7.674
NO. TEETH MEASURED OVER		19	19	2	3	3
ADJACENT PITCH DIFFERENCE		0.003	0.003	0.002	0.002	0.002
CUMULATIVE PITCH ERROR		0.021	0.021	0.011	0.011	0.015
PROFILE ERROR		0.003	0.003	0.002	0.002	0.002
TOOTH ALIGNMENT ERROR		0.001	0.001	0.002	0.002	0.001
FACIAL RUN OUT		0.018	0.018	0.013	0.013	0.013
PROFILE MODIFICATION (TIP RELIEF)		ZERO	ZERO	ZERO	ZERO	ZERO
FUNCTIONAL MODIFICATION (CROWNING)		ZERO	ZERO	ZERO	ZERO	ZERO
MATING GEAR	NUMBER OF TEETH	21	21	900	896	170
	NOMINAL CENTRE DISTANCE	95.5	95.5	1845.08	1838.46	95.5
	BACKLASH	0.10 TO 0.16	0.10 TO 0.16	0.4 TO 0.5	0.4 TO 0.6	0.10 TO 0.16

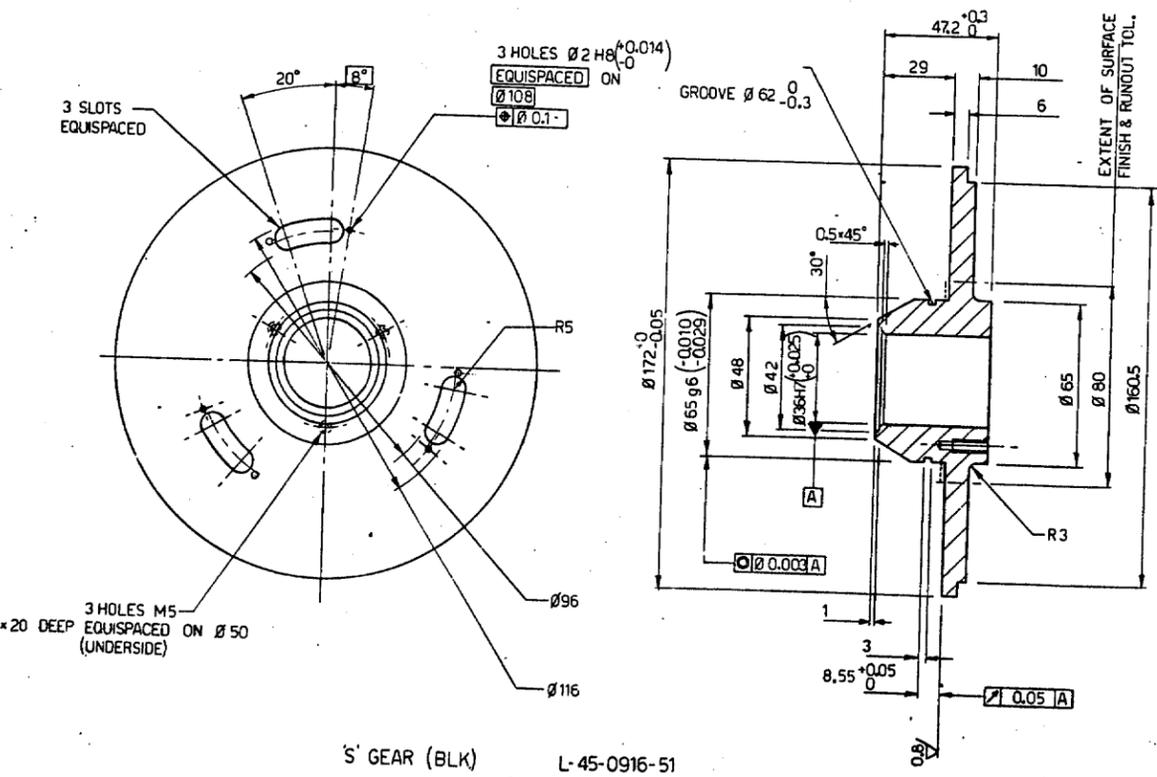


'S' GEAR PLATE. (BLK) L-45-0916-50

MATERIAL: ST. TO BS 970 709M40S

FINISH: REMOVE ALL BURRS & SHARP EDGES, L-45-0901-52

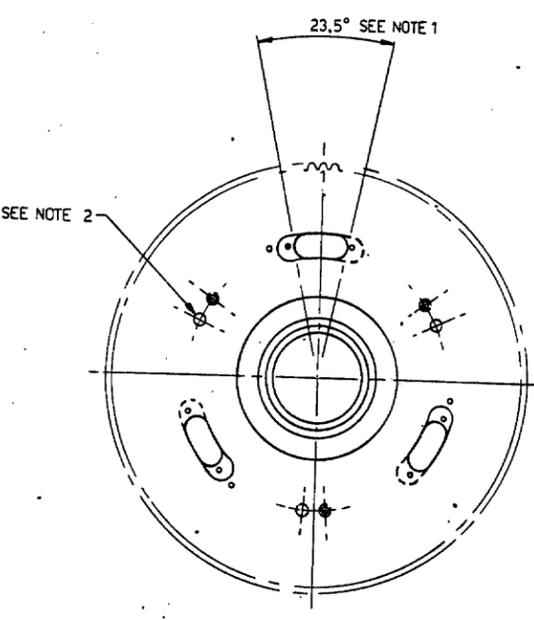
NOTE: THE DIMENSIONS MARKED \* NEED NOT BE MEASURED INDIVIDUALLY PROVIDED IT CAN BE SHOWN ON A SINGLE FLANK TEST RECORD THAT THE TOTAL COMPOSITE ERROR OF S & R IS 25 MICRONS OR LESS & THE SHORT TERM (TOOTH TO TOOTH) ERROR OF S & R IS 3 MICRONS OR LESS.



'S' GEAR (BLK) L-45-0916-51

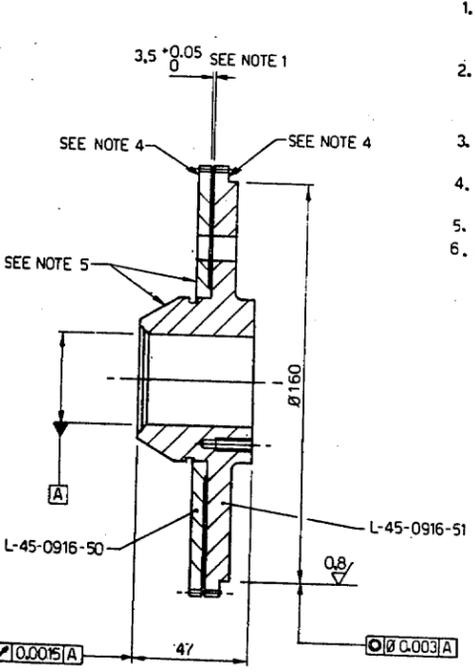
MATERIAL ST TO BS 970 709M40S

FINISH: REMOVE ALL BURRS & SHARP EDGES, L-45-0901-52



'S' GEAR ASSEMBLY L-45-0916-01

FINISH L-45-0901-52



1. CLAMP GEAR PLATES TOGETHER TO ANGULAR DIM. SHOWN USING SPACER 0.35 - 0.4 THK.
2. USING PILOT HOLES IN GEAR PLATE MACHINE 3 HOLES Ø6 H8 & FIT 3 SPLIT PINS Ø6x16 LG. ME600102-616
3. CUT & GRIND GEAR TEETH TO DIMS. IN TABLE.
4. MARK ONE TOOTH NO.1 ON OUTER FACE OF GEARS.
5. MATCH MARK GEARS IN PAIRS.
6. REMOVE ALL BURRS & SHARP EDGES.

FRESHMAN FOX & PARTNERS  
APPROVED  
No. L-45-0916-51 Rev. B  
Date 28-4-1982

4.2 METRE WILLIAM HERSCHEL TELESCOPE  
FOR  
OBSERVATORIO DEL ROQUE DE LOS MUCHACHOS  
LA PALMA  
AND  
ROYAL GREENWICH OBSERVATORY

ASSOCIATED ITEMS AVAILABLE FOR THIS DRAWING	MARK
ISSUE NO.	C
DRAWING LIST	J
ITEM LIST	K
TEST SPEC.	L
WIRING LIST	M
CCT DIAGRAM	Z
SAFETY WARNINGS	NO

CHECKED M. J. GARDNER	APPROVED [Signature]	APPROVED (PROJ) [Signature]
DRAWN R. D. BATHOLOMEW	TRACED	ISSUED BY J. L. B. D. Q. N. P.

UNLESS OTHERWISE STATED, SCREW THREADS TO BE ISO METRIC COARSE PITCH, MEDIUM CLASS TO BS 3643, PART 2.

DIMS. IN	MATERIAL	MARCONI SPEC	FINISH	MARCONI SPEC	TOLERANCES, UNLESS OTHERWISE STATED:
mm	SEE ABOVE	SEE ABOVE	AS ABOVE	SEE ABOVE	±0.3
ORIGINAL SCALE					
1:1					

MARCONI RADAR SYSTEMS LIMITED  
CHELMSFORD & LEICESTER, ENGLAND

SECURITY CLASSIFICATION  
MARCONI DRAWING No (PARTS 01, 50 & 51)  
L-45-0916  
SERVICES DRAWING No

AS MADE DWG.

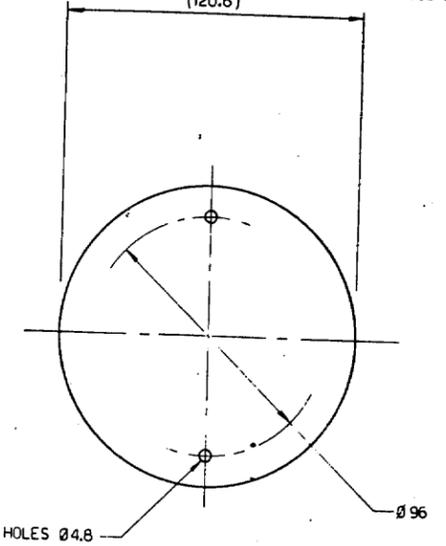
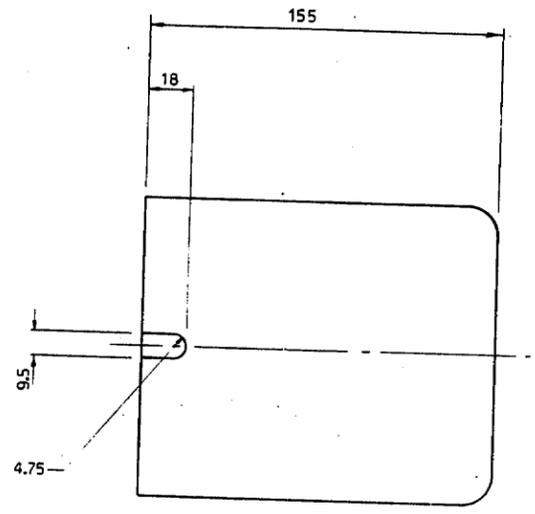
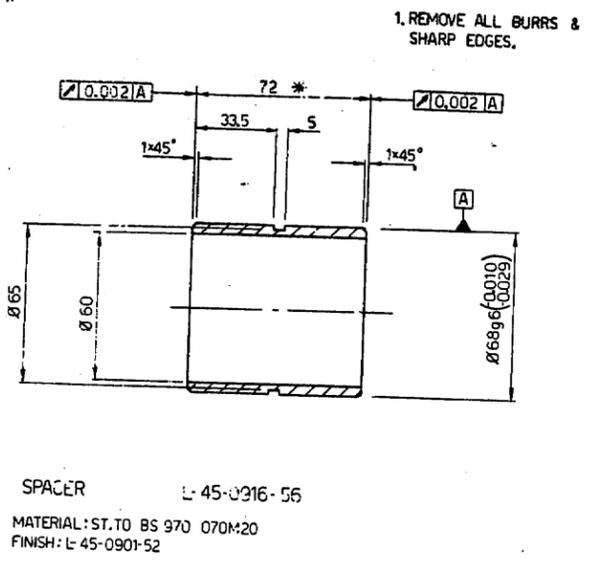
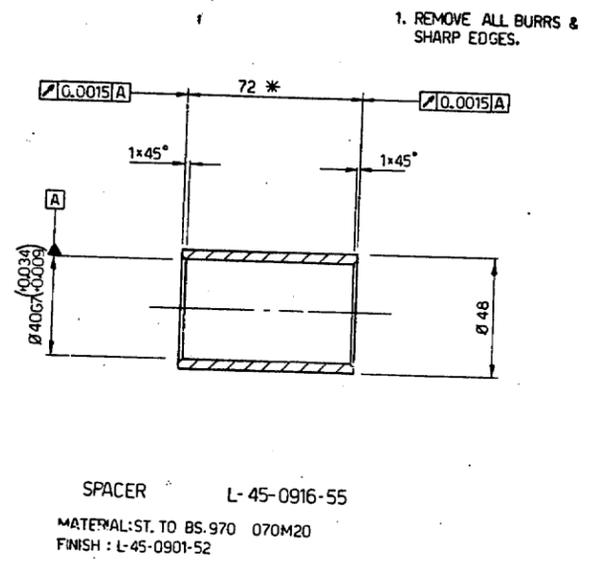


3rd ANGLE PROJECTION

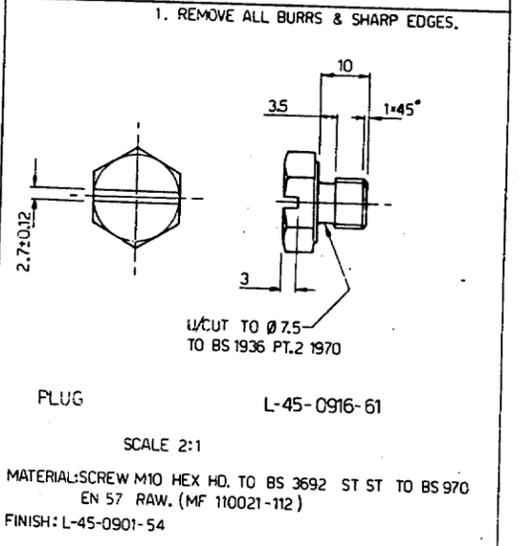
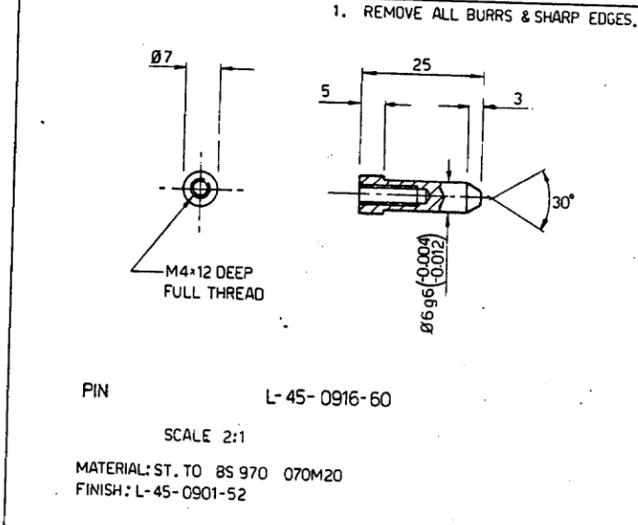
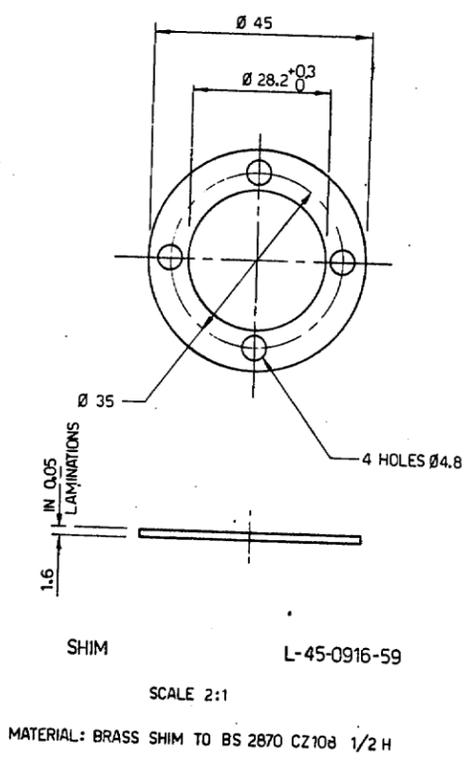
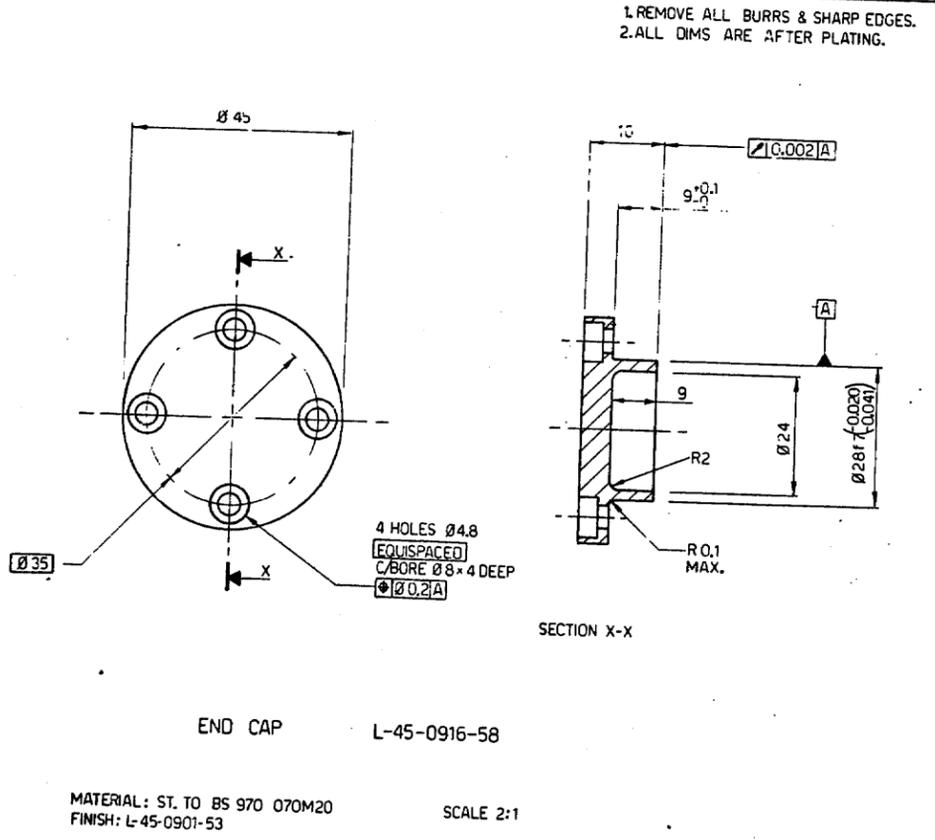
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 180 MILLIMETRES FULL SIZE

ALL CHANGES TO THIS DOCUMENT ARE LISTED ON

REV	DATE
0	NCCI/0001
1	NCCI/0004/19-5-82
2	EI NCC 1 0008/1 29-4-83



ENDS OF SPACERS ITEMS (-55) & (-56) ARE TO BE MACHINED TOGETHER SO THAT THE OVERALL LENGTHS INDICATED THUS \* ARE IDENTICAL.



'AS MADE' DWG.

4.2 METRE WILLIAM HERSCHEL TELESCOPE  
 FOR  
 OBSERVATORIO DEL ROQUE DE LOS MUCHACHOS  
 LA PALMA  
 AND  
 ROYAL GREENWICH OBSERVATORY

ASSOCIATED ITEMS AVAILABLE FOR THIS DRAWING	SUFFIX	MARK
DRAWING LIST	C	
ITEM LIST	L	
TEST SPEC	N	
WIRING LIST	Z	
CCT DIAGRAM		
SAFETY WARNING	NO	

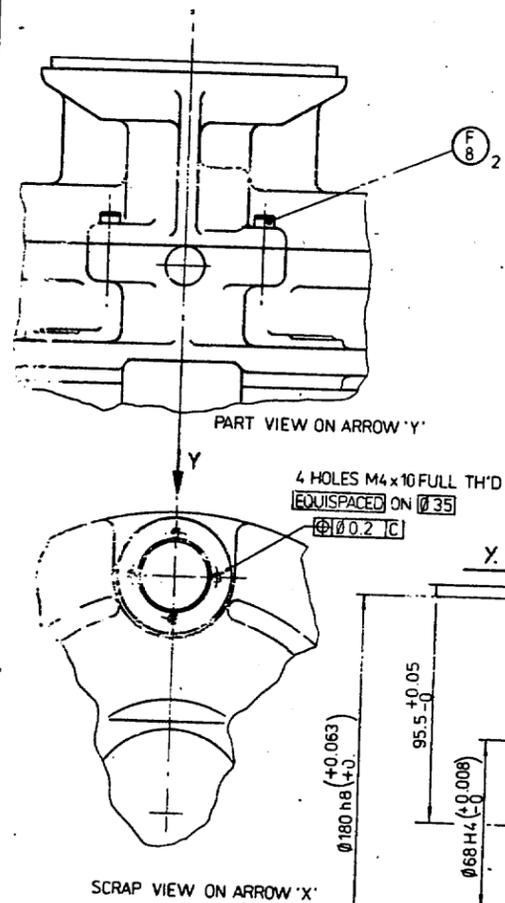
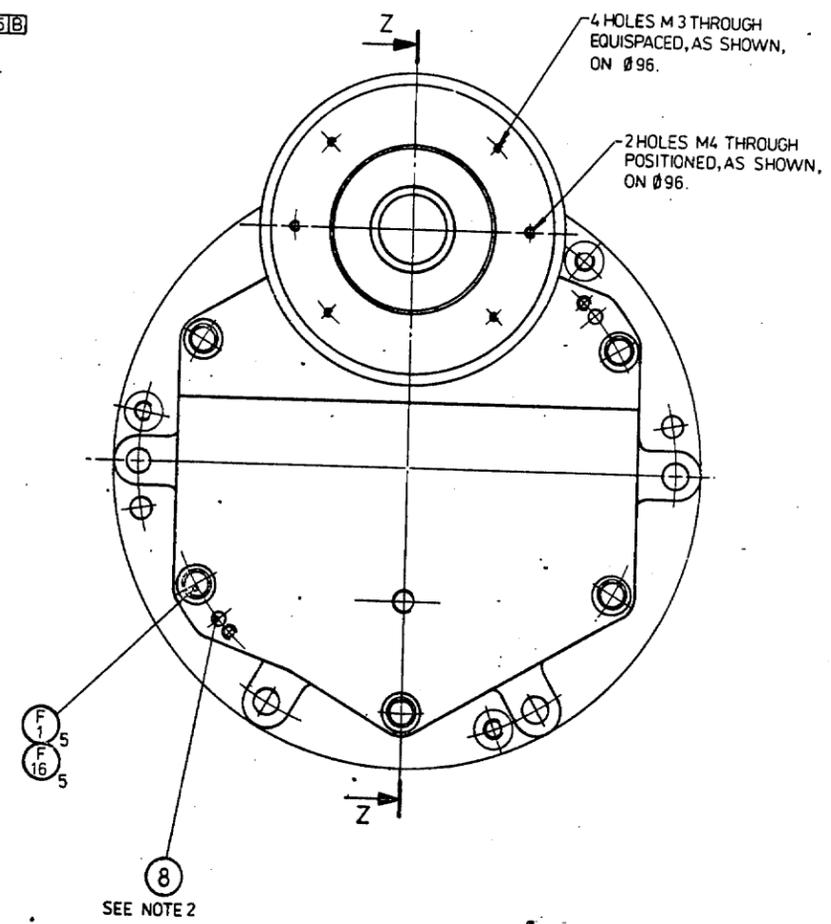
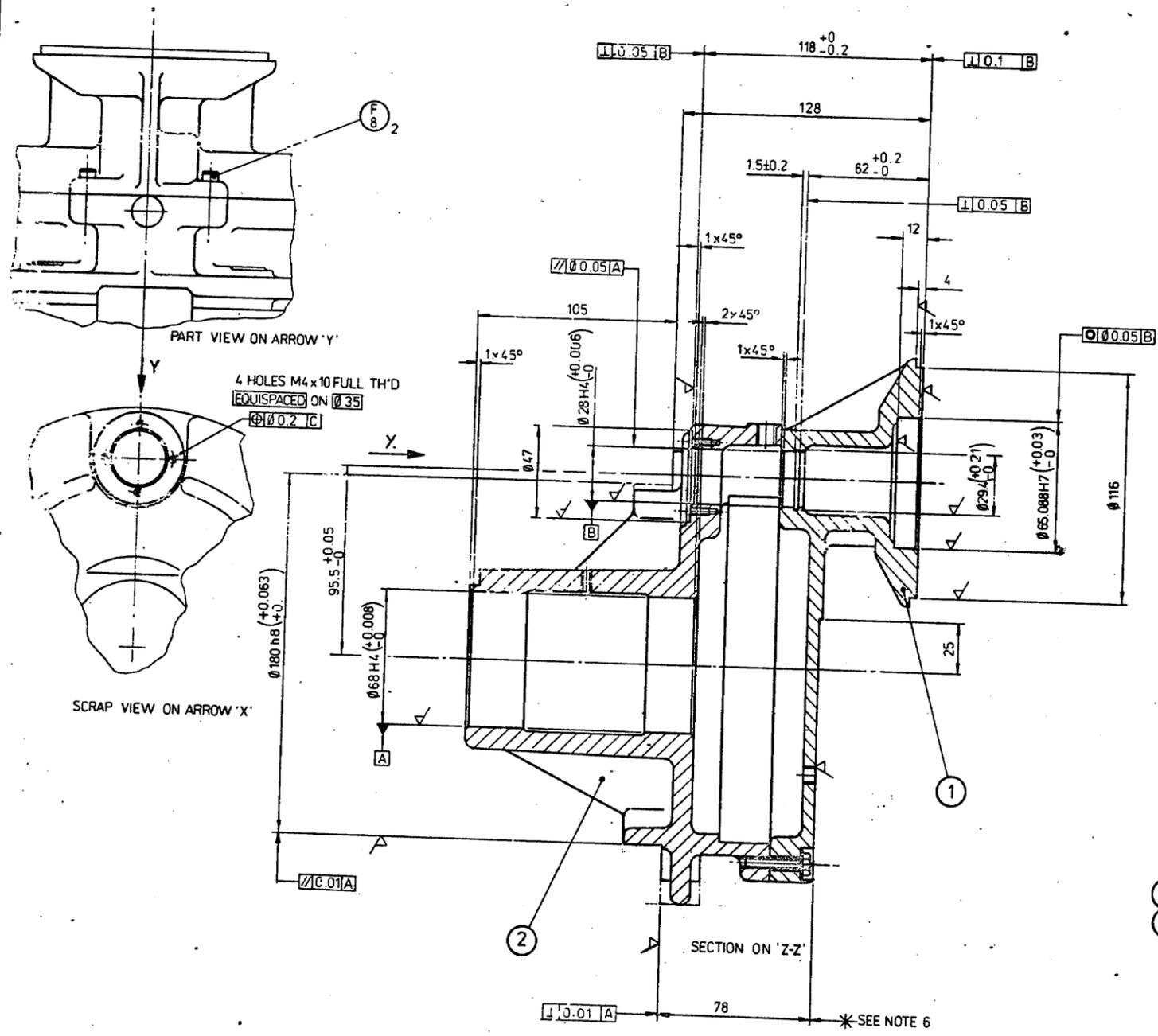
CHECKED	APPROVED	APPROVED (PROD)
Medward	W.Am	
DRAWN	TRACED	ISSUED BY J.L.B.
PD		D.O. N.P.

DIMS IN	MATERIAL	MARCONI SPEC.	FINISH	MARCONI SPEC.	TOLERANCES, UNLESS OTHERWISE STATED.
mm	AS ABOVE		AS ABOVE		±0.3
ORIGINAL SCALE					
1:1 & 2:1					

MARCONI RADAR SYSTEMS LIMITED CHELMSFORD & LEICESTER ENGLAND	SECURITY CLASSIFICATION
MARCONI DRAWING No (PARTS 55-61)	IN No 3
TITLE	IN LEAD -
DETAILS	BY -
SERVICES DRAWING No	
L-45-0916	

UNLESS OTHERWISE STATED: SCREW THREADS TO BE ISO METRIC COARSE PITCH MEDIUM CLASS TO BS 3643 PART 2

1. CASTINGS ITEMS 1 & 2 TO BE ASSEMBLED TOGETHER TO GIVE BEST POSSIBLE MATCH OF PROFILES, USING SCREWS ITEMS F1 & F8
2. USING PILOT HOLES IN ITEM 1 MACHINE 2 HOLES Ø6H8/F7 THROUGH ITEM 2 AND FIT DOWELS ITEM 8
3. MACHINE AFTER THE ABOVE IS COMPLETED.
4. REMOVE ALL BURRS AND SHARP EDGES.
5. PAINT ALL UNMACHINED EXTERNAL SURFACES IN ACCORDANCE WITH L-45-0901-50
6. FACES MARKED THUS \* TO BE SQUARE TO BORE DATUM 'A' TO WITHIN 5 ARC SECONDS.



**'AS MADE' DWG.**

PREPARED BY FOX & PARTNERS  
**APPROVED**  
No. L-45-0917 Rev. B  
Date 28-6-1982

ASSOCIATED ITEMS AVAILABLE FOR THIS DRAWING	SUFFIX	L	A	R	C	X
REVISIONS						
DRAWING LIST						
ITEM LIST						
TEST SPEC.						
TRAINING LIST						
CONTROL DRAWING						
SAFETY WARNING						

4.2 METRE WILLIAM HERSCHEL TELESCOPE  
FOR  
OBSERVATORIO DEL ROQUE DE LOS MUCHACHOS  
LA PALMA  
AND  
ROYAL GREENWICH OBSERVATORY

MARCONI RADAR SYSTEMS LIMITED  
CHELMSFORD & LEICESTER, ENGLAND

SECURITY CLASSIFICATION  
MARCONI DRAWING No.  
L-45-0917

DESIGNED Edwards	APPROVED W. J. B.	APPROVED (P/CD) D. O. N. P. LEI.
TRACED	ISSUED BY	J. L. B. CONTROL

UNIT m. m.	MATERIAL	MARCONI SPEC	FINISH	MARCONI SPEC	TOLERANCES, UNLESS OTHERWISE STATED: ±0.3
ORIGINAL SCALE 1:1	SEE NOTE 5.				

UNLESS OTHERWISE STATED, SCREW THREADS TO BE ISO METRIC COARSE PITCH, MEDIUM CLASS TO BS.3643, PART 2.

TITLE N.H.O. TELESCOPE  
GEARCASE ASSEMBLY (MACHINED)

SERVICES DRAWING No.

SECURITY CLASSIFICATION  
SERVICES DRG No  
FIRST USED ON L-45-0917

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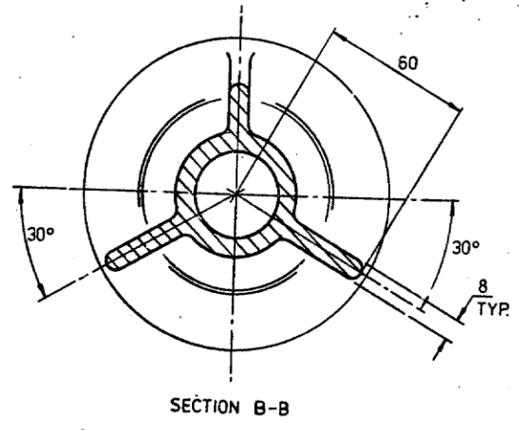
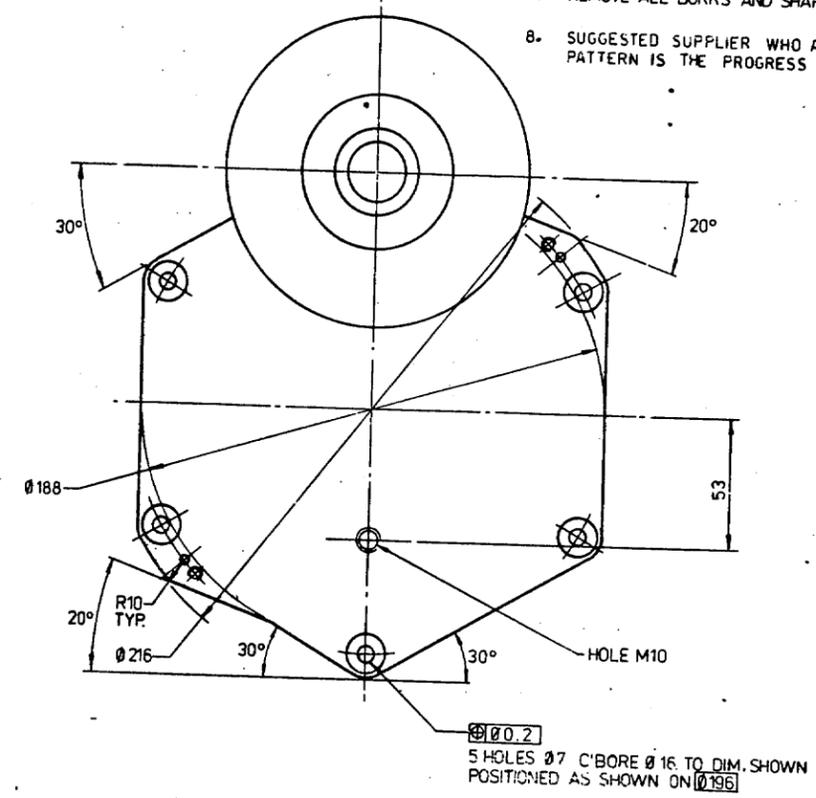
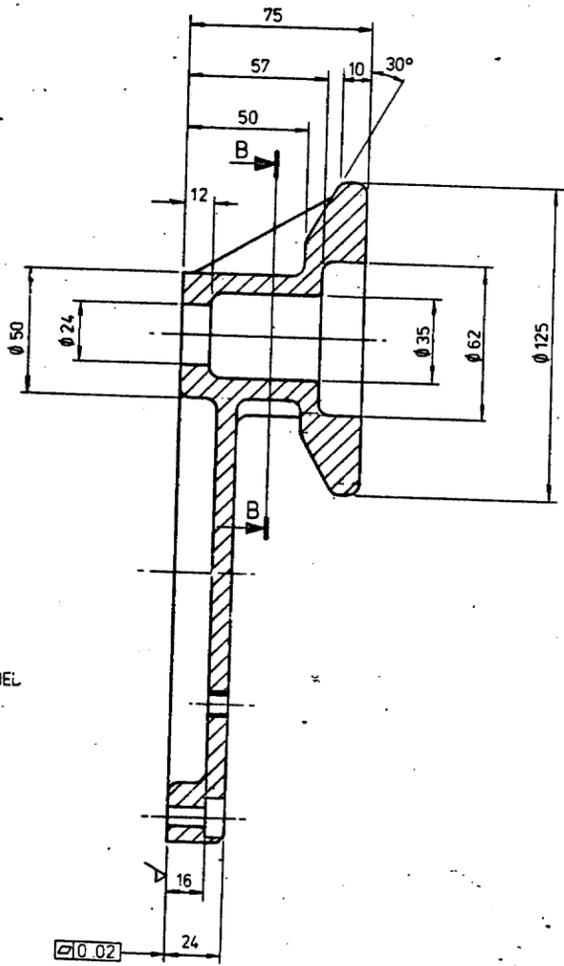
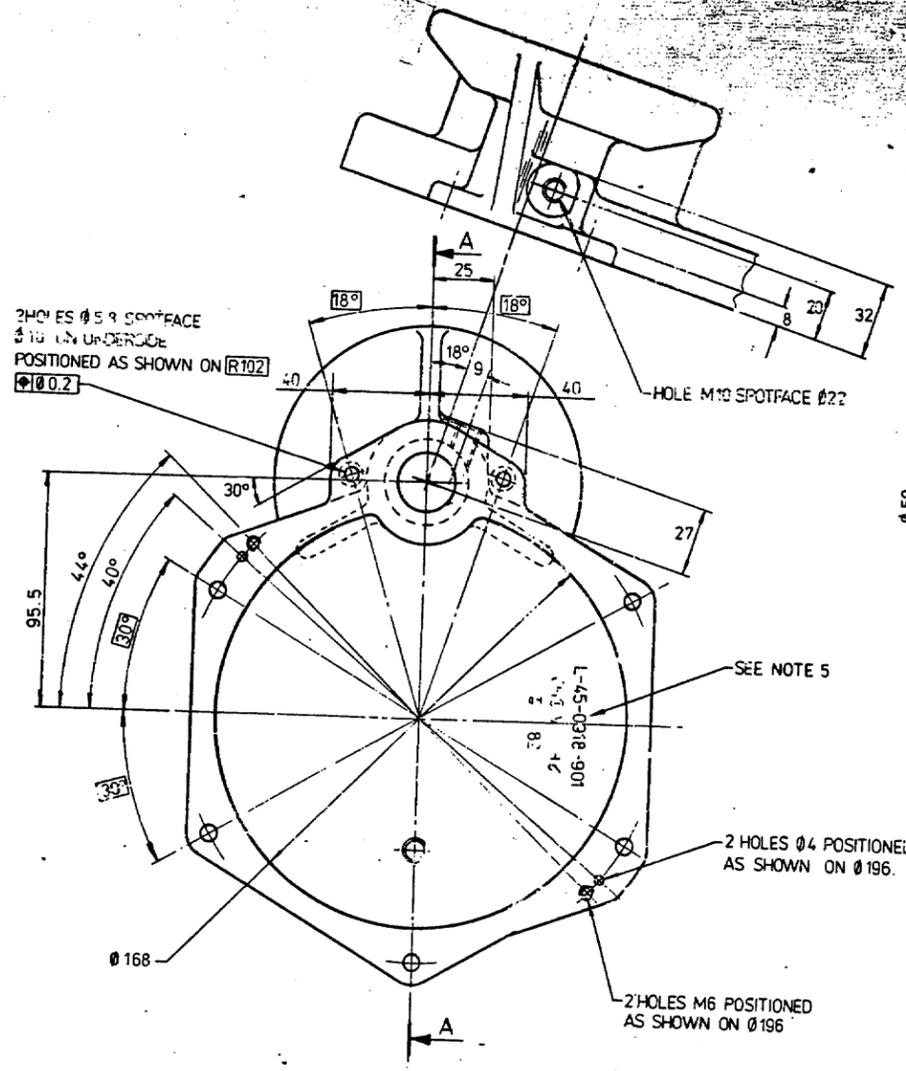
3rd ANGLE PROJECTION

DO NOT SCALE PRINT  
150 MILLIMETRES FULL SIZE

ALL CHANGES TO THIS DOCUMENT ARE LISTED IN THE NOTES

NO.	DATE
1	1982-02-22
2	1982-02-22
3	1982-02-22
4	1982-02-22

- ALL UNSPECIFIED CASTING RADII TO BE R5.
- DRAUGHT ANGLES TO BE 1.5°.
- CASTING TO BE IN ACCORDANCE WITH BS1452:1977
- THE PROFILE OF MACHINED FACE OF THIS CASTING TO BE COMPATIBLE WITH TOP FACE OF BOTTOM CASTING L-45-0919
- PATTERN No. L-45-0918-901, FOUNDERS' INITIALS, MONTH AND YEAR OF MANUFACTURE TO BE CAST IN POSITION SHOWN IN RAISED CHARACTERS.
- CASTING TO BE STRESS RELIEVED BEFORE MACHINING BY HEATING TO 600°C, HOLDING AT THAT TEMPERATURE FOR 2 HOURS THEN COOL SLOWLY IN OVEN.
- REMOVE ALL BURRS AND SHARP EDGES.
- SUGGESTED SUPPLIER WHO ALSO HOLDS THE PATTERN IS THE PROGRESS FOUNDRY.



**'AS MADE' DWG.**

FREEMAN FOX & PARTNERS  
**APPROVED**  
No. A-09-088  
Date 28-6-1982

4.2 METRE WILLIAM HERSCHEL TELESCOPE  
FOR  
OBSERVATORIO DEL ROQUE DE LOS MUCHACHOS  
LA PALMA  
AND  
ROYAL GREENWICH OBSERVATORY

IDENTITY: L-45-0918-50 AS DRAWN

CHECKED M. Edwards	APPROVED W. P. ...	APPROVED (PROD)
ISSUED BY J.L.B.	CONTROL D.O.	

UNLESS OTHERWISE STATED, SCREW THREADS TO BE ISO METRIC COARSE PITCH, MEDIUM CLASS TO BS.3643, PART 2.

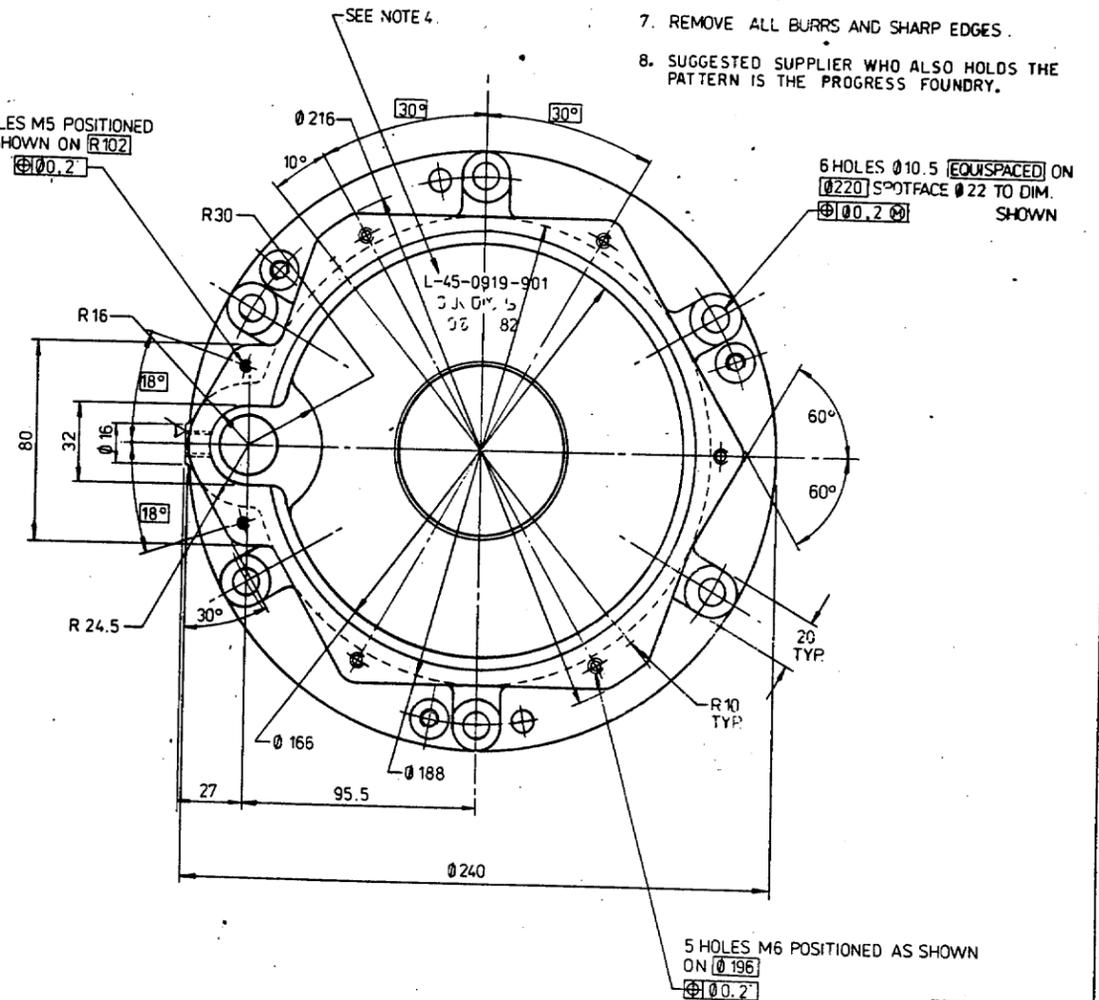
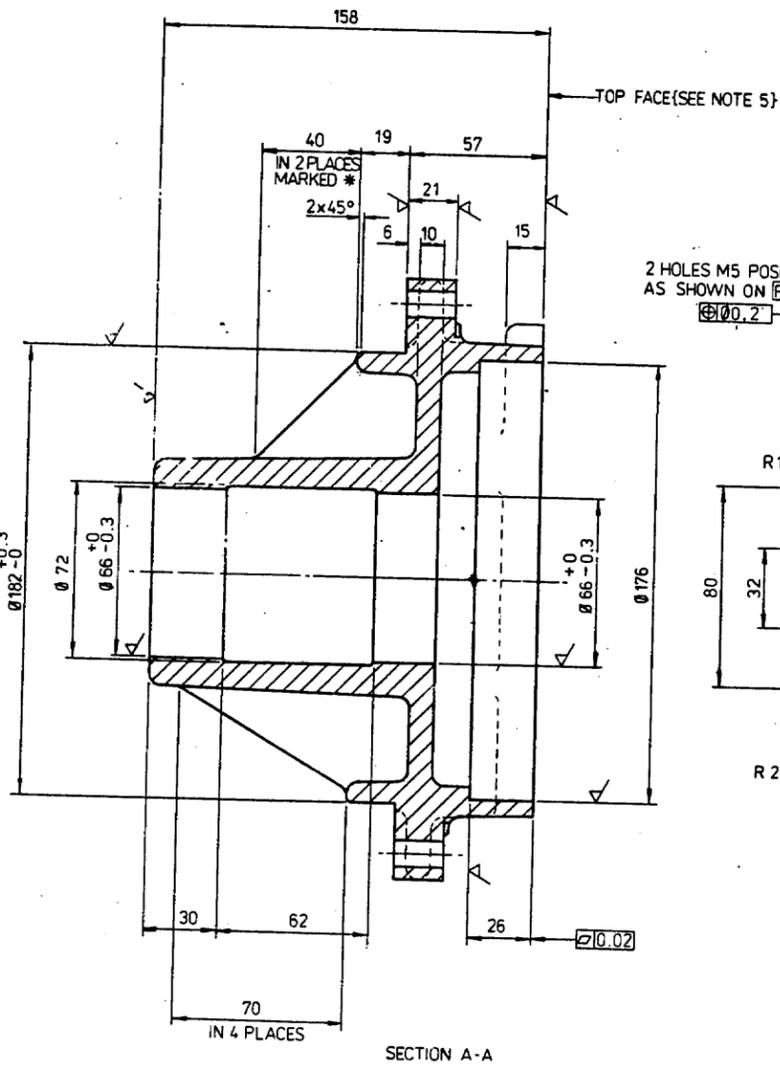
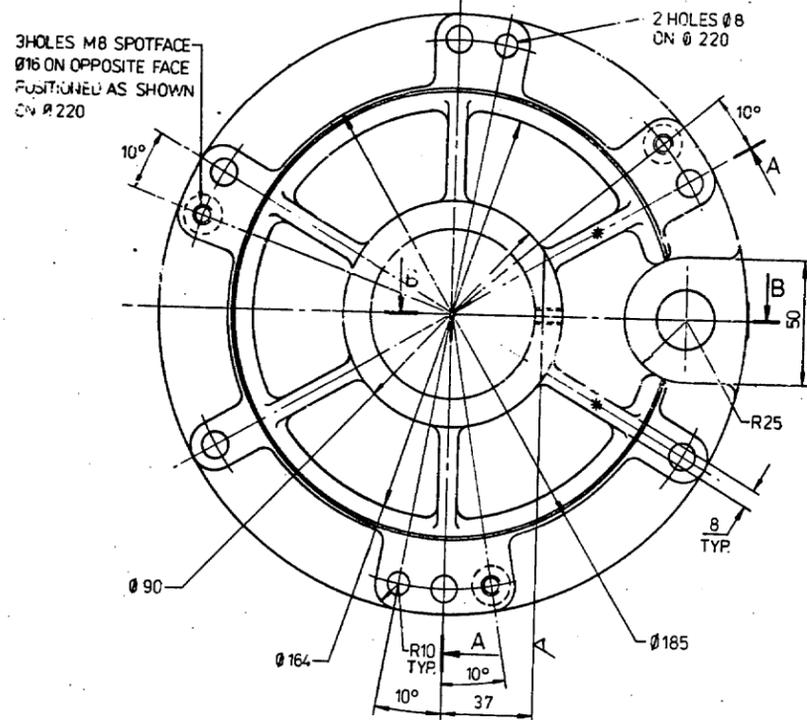
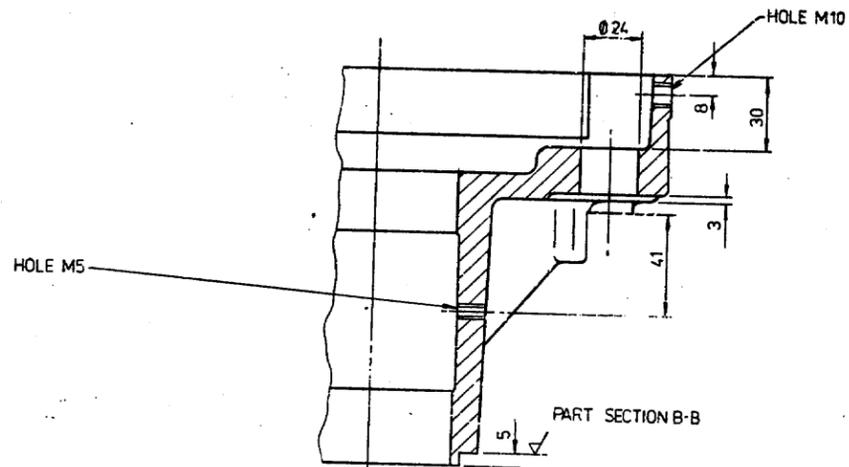
UNIT	MATERIAL	MARCONI SPEC	FINISH	TOLERANCES, UNLESS OTHERWISE STATED:
m. m.	GREY CAST IRON TO BS1452:1977 GRADE 220		NONE	±1 ON CASTING DIMS. ±0.3 ON MACHINING DIMS.
ORIGINAL SCALE	PATTERN No. L-45-0918-901			
1:1				

MARCONI RADAR SYSTEMS LIMITED CHELMSFORD & LEICESTER, ENGLAND	SECURITY CLASSIFICATION
TITLE N.H.O. TELESCOPE GEARCASE CASTING { TOP }	MARCONI DRAWING No. L-45-0918
	SERVICES DRAWING No.

ASSOCIATED ITEMS AVAILABLE FOR THIS DRAWING	MARK
SUFFIX	X
CHANGE SHEET	C
DRAWING LIST	J
ITEM LIST	K
TEST SPEC.	L
WIRING LIST	N
CCY DIAGRAM	Z
SAFETY WARNING	NO

REV	DATE
G	NCC10004
B	NCC10004/2 19-5-82
X	EI NCC1 0008/1 22-4-82

1. ALL UNSPECIFIED CASTING RADII TO BE R5.
2. ALL DRAUGHT ANGLES TO BE 1.5°.
3. CASTING TO BE IN ACCORDANCE WITH BS 1452:1977.
4. PATTERN No. L-45-0919-901, FOUNDERS INITIALS, MONTH AND YEAR OF MANUFACTURE TO BE CAST IN POSITION SHOWN IN RAISED CHARACTERS.
5. THE PROFILE OF TOP FACE OF THIS CASTING TO BE COMPATIBLE WITH TOP CASTING L-45-0918
6. CASTING TO BE STRESS RELIEVED BEFORE MACHINING BY HEATING TO 600°C, HELD AT THAT TEMPERATURE FOR 2 HOURS, THEN COOLED SLOWLY IN THE OVEN. FURTHER STRESS RELIEVING MAY BE CARRIED OUT AFTER ROUGH MACHINING AT THE DISCRETION OF THE CONTRACTOR.
7. REMOVE ALL BURRS AND SHARP EDGES.
8. SUGGESTED SUPPLIER WHO ALSO HOLDS THE PATTERN IS THE PROGRESS FOUNDRY.



AS MADE DWG.

FREEMAN FOX & PARTNERS  
APPROVED  
No. L-45-0919 Rev. B  
Date 28-8-1982

ASSOCIATED ITEMS AVAILABLE FOR THIS DRAWING	MARK SUFFIX	X
CHANGES WORK	C	
DRAWING LIST	J	
ITEM LIST	K	
TEST SPEC.	L	
WIRING LIST	N	
CCT DIAGRAM	Z	
SAFETY WARNING	NO	

CHECKED M.J. Edwards	APPROVED J.L.B.	APPROVED (PROOF)
DRAWN	TRACED	ISSUED BY J.L.B. CONTROL D.O.

UNLESS OTHERWISE STATED, SCREW THREADS TO BE ISO METRIC COARSE PITCH, MEDIUM CLASS TO BS 3643, PART 2.

DIMS IN m.m.	MATERIAL GREY CAST IRON TO B.S. 1452:1977 GRADE 220 PATTERN No. L-45-0919-901	MARCONI SPEC	FINISH NONE	TOLERANCES, UNLESS OTHERWISE STATED: ±1 CASTING DIMS ±0.3 MACHINING DIMS.
ORIGINAL SCALE 1:1				

4.2 METRE WILLIAM HERSCHEL TELESCOPE FOR OBSERVATORIO DEL ROQUE DE LOS MUCHACHOS LA PALMA AND ROYAL GREENWICH OBSERVATORY

IDENTITY L-45-0919-50 AS DRAWN

MARCONI RADAR SYSTEMS LIMITED  
CHELMSFORD & LEICESTER, ENGLAND

SECURITY CLASSIFICATION  
MARCONI DRAWING No.

TITLE N.H.O. TELESCOPE  
GEARCASE CASTING (BOTTOM)

Services Drawing No. L-45-0919