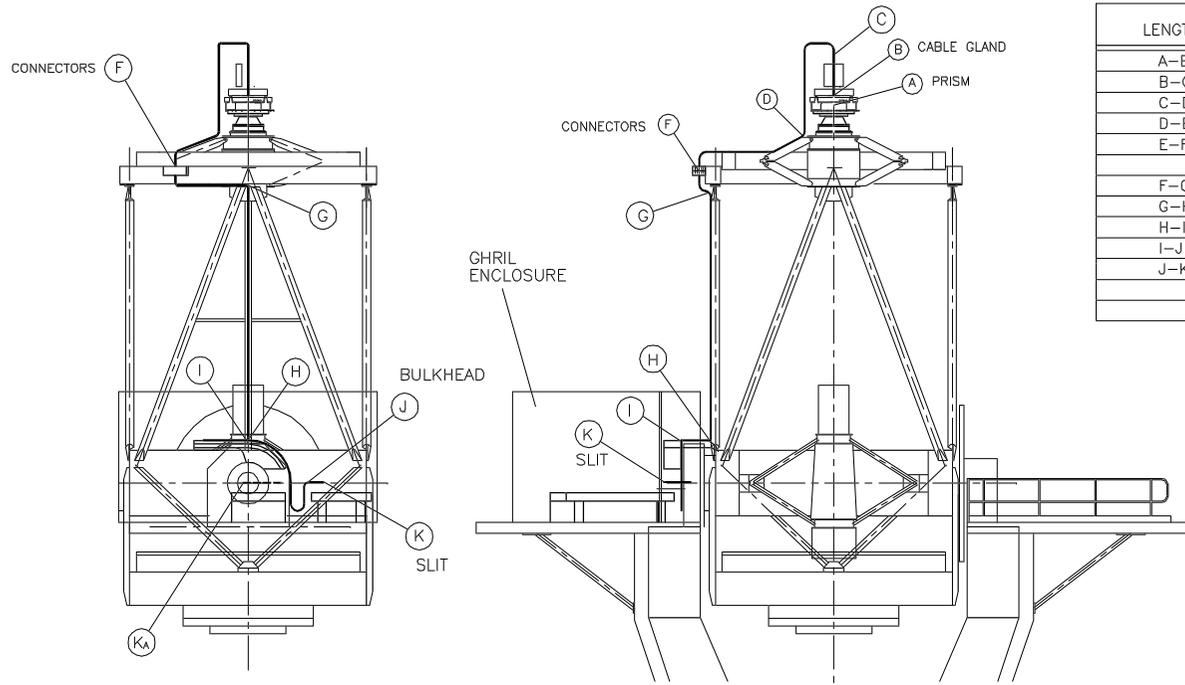


Issue	Mod.No	Date	Drawn by	Issue	Mod.No	Date

Org.No.	No.Reg.	Dimns.in m.m.	Scale	THIRD ANGLE PROJECTION	GA No.
		ROYAL GREENWICH OBSERVATORY		Title	Drawing No.
		MADINGLEY ROAD			W
		CAMBRIDGE CB3 0EZ		Used on	

DO NOT SCALE

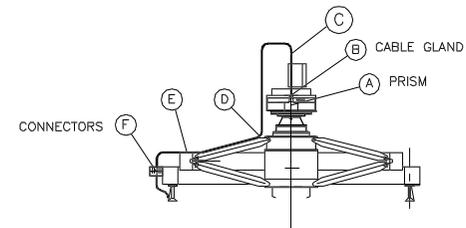


LENGTH	DISTANCE (MM)	NOTES
A-B	1154	DIM FROM FIBRE.DWG (DU)
B-C	800	
C-D	3050	
D-E	1800	
E-F	1600	
TOTAL LENGTH A-F = 8404		
F-G	3200	
G-H	5200	
H-I	2600	
I-J	2000	FIBRE RUNNING THRU. CABLE CHAIN
J-K	SEE BELOW	
TOTAL LENGTH F-K = SEE BELOW		
TOTAL LENGTH OF FIBRE = SEE BELOW		

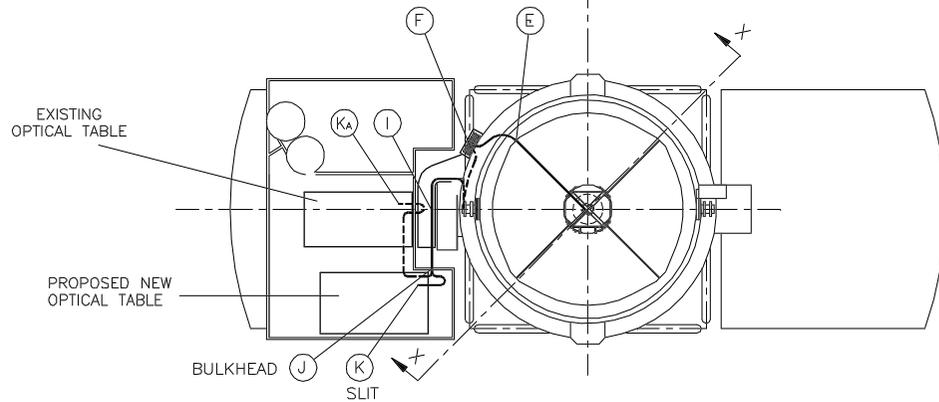
LENGTH J-K = 2200 WITH NEW OPTICAL TABLE  
 LENGTH J-K<sub>A</sub> = 3700 WITH EXISTING OPTICAL TABLE  
 TOTAL LENGTH OF FIBRE F-K = 15200  
 TOTAL LENGTH OF FIBRE F-K<sub>A</sub> = 16700

OVERALL LENGTH OF FIBRE A-K = 23604  
 OVERALL LENGTH OF FIBRE A-K<sub>A</sub> = 25104

— USE THIS LENGTH FOR INITIAL PRODUCTION



SECTION X-X

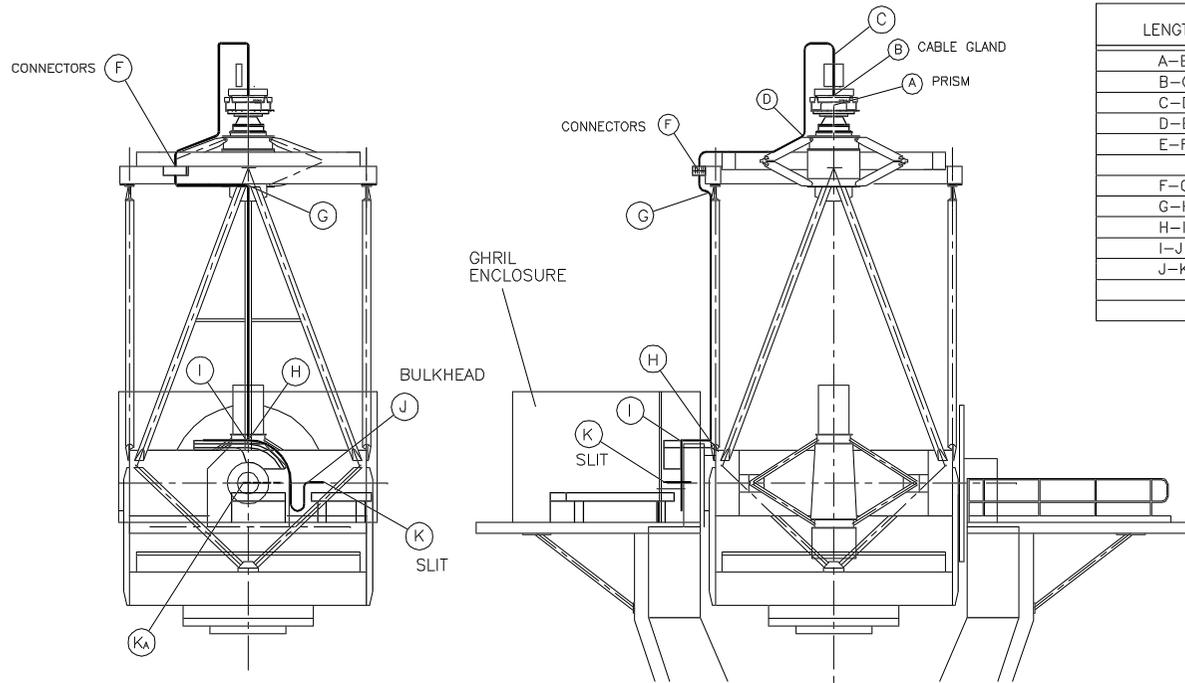


PLAN VIEW

BASED ON DRAWING FRS-02 BY DURHAM UNIVERSITY  
 AND MEASUREMENTS MADE BY N.FERNEYHOUGH & D.GELLATLY

			Tolerance (Unless otherwise stated)		Material		Dimns. in m.m.		Scale 1:60		THIRD ANGLE PROJECTION		GA No.	
			X +/-										Drawing No.	
			X.X +/-		Finish		Drg.No.				Title		W/BL/141	
			X.XX +/-		Used on		No.Req.		ROYAL GREENWICH OBSERVATORY		4.2m WHT - FIBRE OPTIC ROUTING			
			ANG. +/-				Used on		MADINGLEY ROAD					
Issue Mod.No Date Drawn by Issue Mod.No Date Drawn by									CAMBRIDGE CB3 0EZ					
1 OCT.92 AJW														

DO NOT SCALE

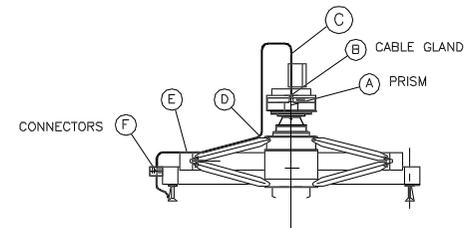


LENGTH	DISTANCE (MM)	NOTES
A-B	1154	DIM FROM FIBRE.DWG (DU)
B-C	800	
C-D	3050	
D-E	1800	
E-F	1600	
TOTAL LENGTH A-F = 8404		
F-G	3200	
G-H	5200	
H-I	2600	
I-J	2000	FIBRE RUNNING THRU. CABLE CHAIN
J-K	SEE BELOW	
TOTAL LENGTH F-K = SEE BELOW		
TOTAL LENGTH OF FIBRE = SEE BELOW		

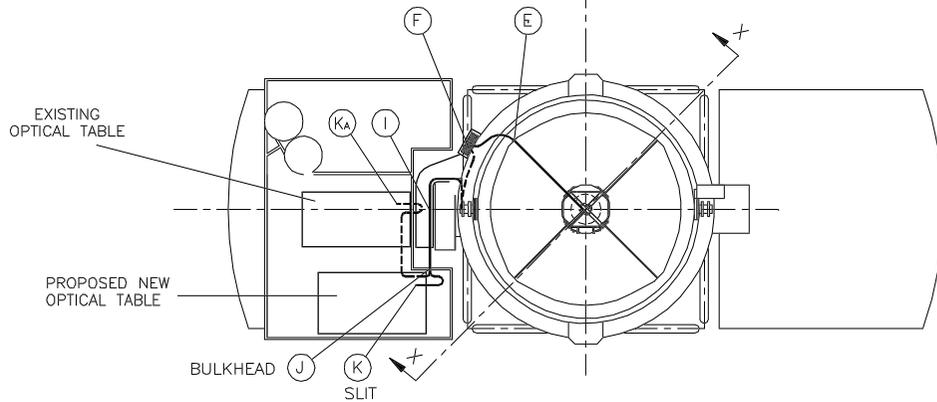
LENGTH J-K = 2200 WITH NEW OPTICAL TABLE  
 LENGTH J-K<sub>A</sub> = 3700 WITH EXISTING OPTICAL TABLE  
 TOTAL LENGTH OF FIBRE F-K = 15200  
 TOTAL LENGTH OF FIBRE F-K<sub>A</sub> = 16700

OVERALL LENGTH OF FIBRE A-K = 23604  
 OVERALL LENGTH OF FIBRE A-K<sub>A</sub> = 25104

— USE THIS LENGTH FOR INITIAL PRODUCTION



SECTION X-X

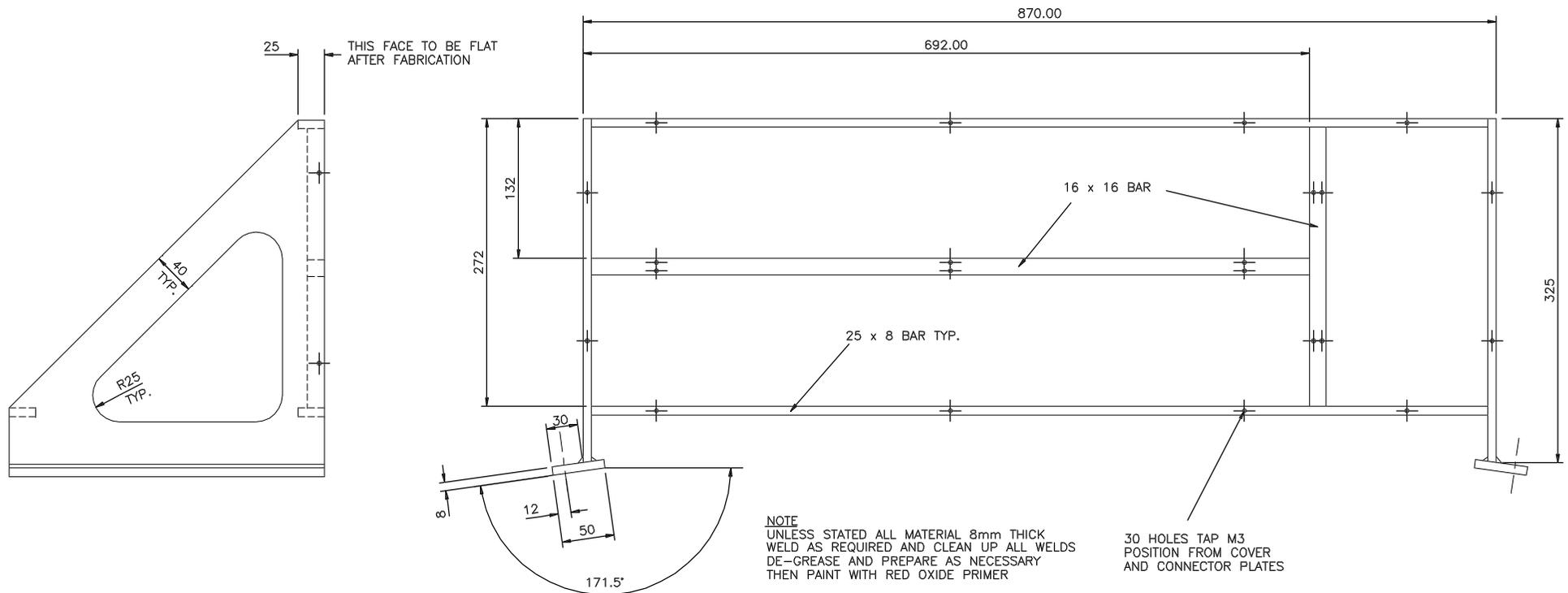
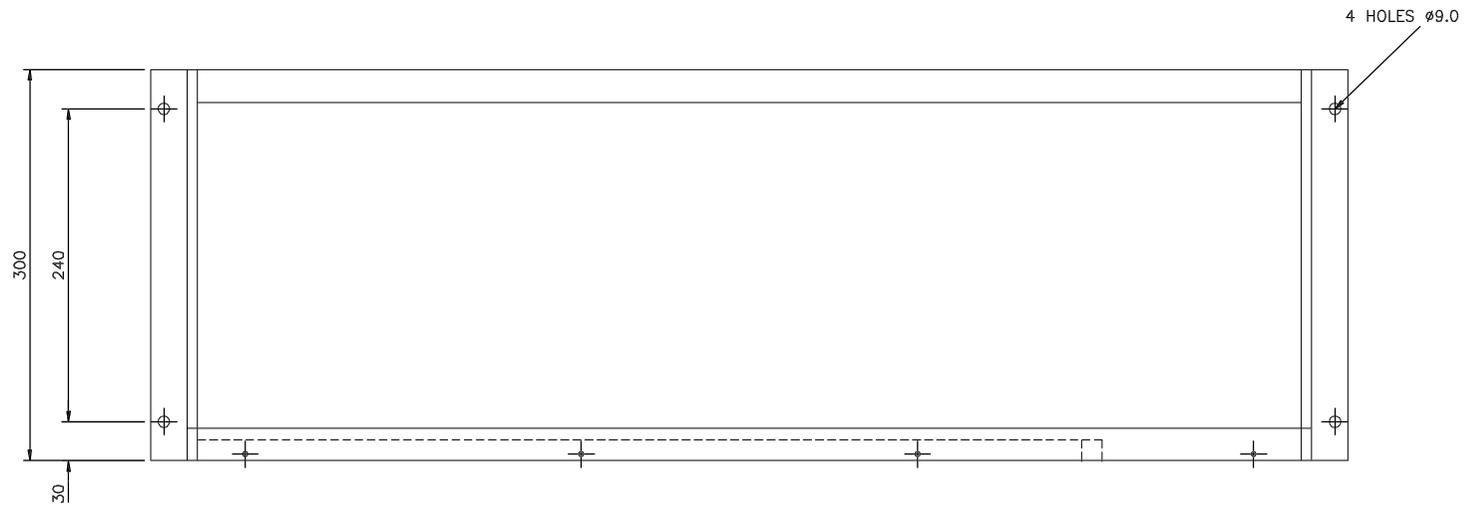


PLAN VIEW

BASED ON DRAWING FRS-02 BY DURHAM UNIVERSITY  
 AND MEASUREMENTS MADE BY N.FERNEYHOUGH & D.GELLATLY

			Tolerance (Unless otherwise stated)		Material		Dimns. in m.m.		Scale 1:60		THIRD ANGLE PROJECTION		GA No.		
			X +/-										Drawing No.		
			X.X +/-		Finish		Drg.No.				Title		W/BL/141		
			X.XX +/-		Used on		No.Req.		ROYAL GREENWICH OBSERVATORY		4.2m WHT - FIBRE OPTIC ROUTING				
			ANG. +/-				Used on		MADINGLEY ROAD						
									CAMBRIDGE CB3 0EZ						
Issue	Mod.No	Date	Drawn by	Issue	Mod.No	Date	Drawn by								
				1		OCT.92	AJW								

REMOVE ALL BURRS AND SHARP EDGES



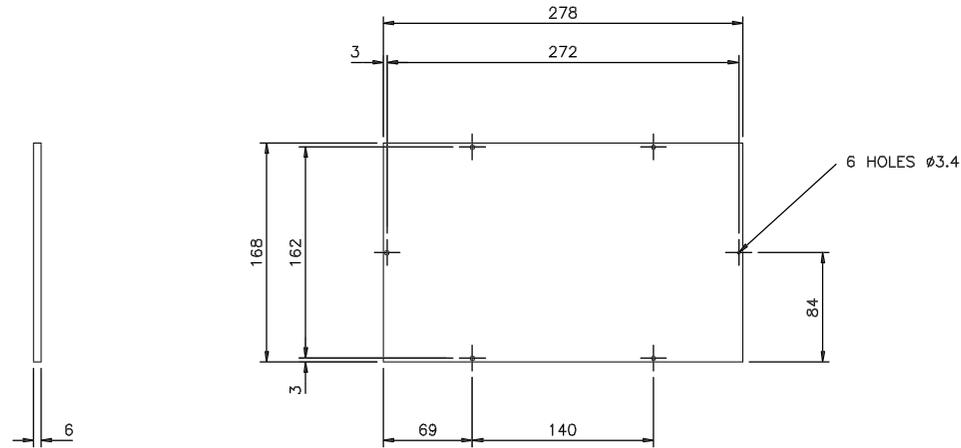
NOTE  
UNLESS STATED ALL MATERIAL 8mm THICK  
WELD AS REQUIRED AND CLEAN UP ALL WELDS  
DE-GREASE AND PREPARE AS NECESSARY  
THEN PAINT WITH RED OXIDE PRIMER

				Tolerance (Unless otherwise stated)				Material		Dimns. in m.m.		Scale 1:2		THIRD ANGLE PROJECTION		GA No.	
				X +/-				MS FABRICATION		1 OFF		ROYAL GREENWICH OBSERVATORY		Title		Drawing No.	
				XX +/-				Finish		Drg.No. No.Req.		MADINGLEY ROAD		FIBRE OPTIC CONNECTOR BRACKET		W/BL/143	
Issue Mod.No Date Drawn by Issue Mod.No Date Drawn by				ANG. +/-				SEE NOTE		Used on		CAMBRIDGE CB3 0EZ		4.2m TOP END RING			

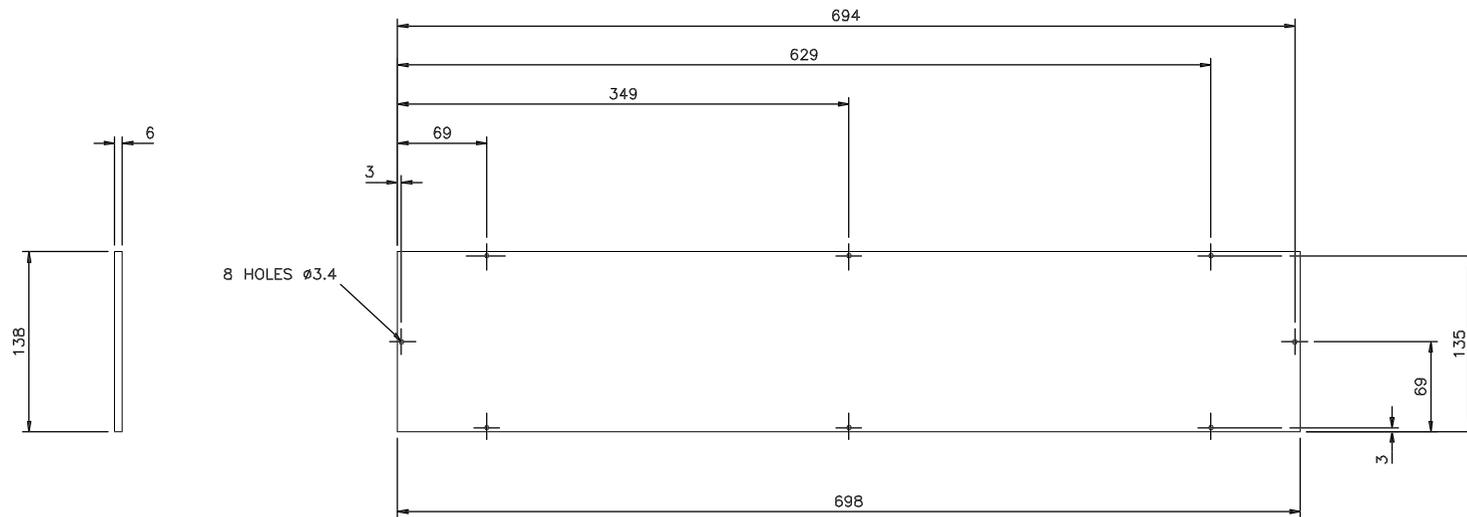


Drawing No.  
W/BL/146-7

REMOVE ALL SHARP EDGES



146		TITLE	DISC REF.
CONNECTOR PLATE BLANK			
MATERIAL	SCALE	TOLERANCES ±	
6082 AL.ALLOY	1:2	X	1
FINISH	No. REQD. PER UNIT	X.X	
BLK.ANODISE	1 OFF	X.XX	
G.A. No.	DRAWING No.		
RGD	W/BL/146		



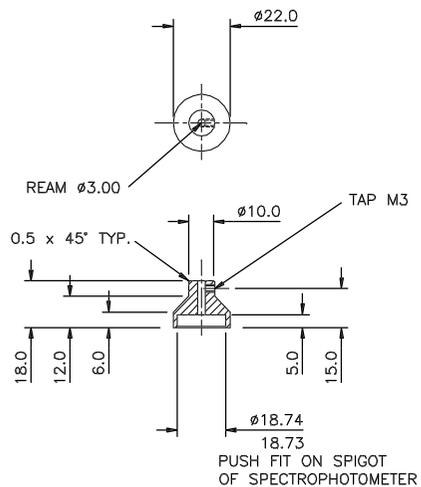
147		TITLE	DISC REF.
CONNECTOR PLATE BLANK			
MATERIAL	SCALE	TOLERANCES ±	
6082 AL.ALLOY	1:2	X	0.3
FINISH	No. REQD. PER UNIT	X.X	
BLK.ANODISE	1 OFF	X.XX	
G.A. No.	DRAWING No.		
RGD	W/BL/147		

								Tolerance (Unless stated)		Material		Dimns.in m.m.		Scale		THIRD ANGLE PROJECTION		GA No.	
								X +/-								ROYAL GREENWICH OBSERVATORY		Drawing No.	
								X.X +/-		Finish		Drg.No.				MADINGLEY ROAD		W/BL/146-7	
								X.XX +/-		Drg.No.		No.Req.				CAMBRIDGE CB3 0EZ			
								ANG. +/-		Used on									
Issue	Mod.No	Date	Drawn by	Issue	Mod.No	Date	Drawn by												
				1		MAY.93	AJW												



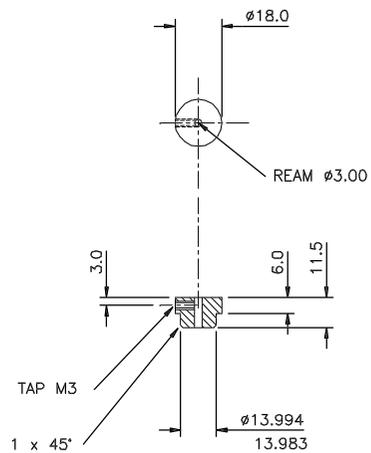
Drawing No.  
W/BL/191

REMOVE ALL SHARP EDGES



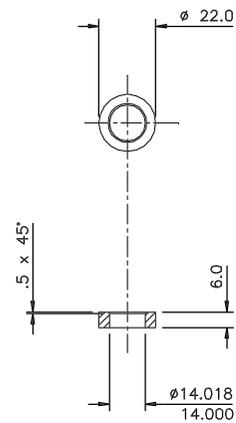
A	TITLE		DISC REF.
	FIBRE HOLDER		
	MATERIAL	SCALE	TOLERANCES ±
	6082 AL.ALOY	1:1	X 0.1 X.X X.XX
FINISH		No. REQD. PER UNIT	X X.X X.XX
BLK.ANODISE		1 OFF	
G.A. No.		DRAWING No.	
W/BL/191		RGD W/BL/191-A	

REMOVE ALL SHARP EDGES



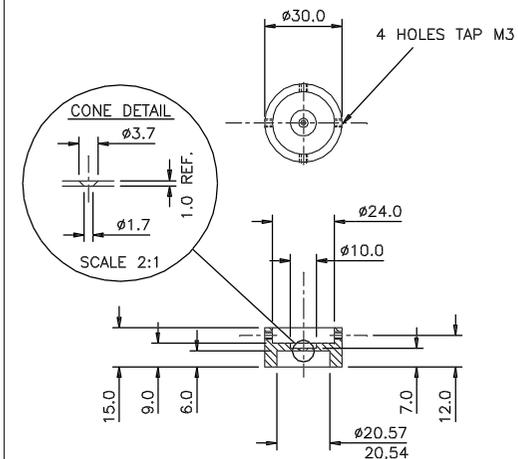
B	TITLE		DISC REF.
	FIBRE HOLDER		
	MATERIAL	SCALE	TOLERANCES ±
	BRASS	1:1	X 0.1 X.X X.XX
FINISH		No. REQD. PER UNIT	X X.X X.XX
BLK.NICKEL PL		1 OFF	
G.A. No.		DRAWING No.	
W/BL/191		RGD W/BL/191-B	

REMOVE ALL SHARP EDGES



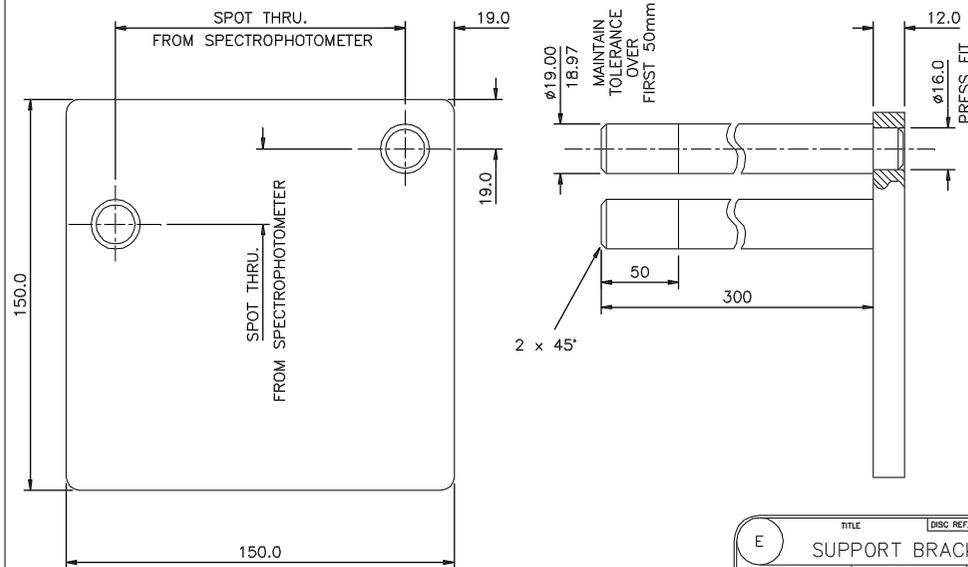
C	TITLE		DISC REF.
	CENTRING RING		
	MATERIAL	SCALE	TOLERANCES ±
	BRASS	1:1	X 0.1 X.X X.XX
FINISH		No. REQD. PER UNIT	X X.X X.XX
BLK.NICKEL PL		1 OFF	
G.A. No.		DRAWING No.	
W/BL/191		RGD W/BL/191-C	

REMOVE ALL SHARP EDGES



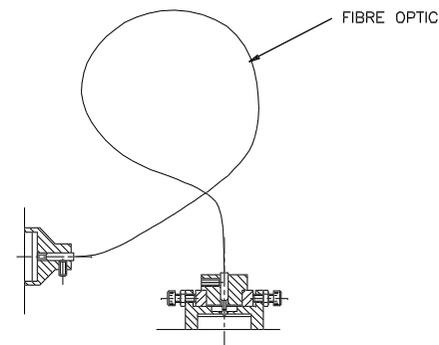
D	TITLE		DISC REF.
	LENS HOLDER		
	MATERIAL	SCALE	TOLERANCES ±
	BRASS	1:1	X 0.1 X.X X.XX
FINISH		No. REQD. PER UNIT	X X.X X.XX
BLK.NICKEL PL		1 OFF	
G.A. No.		DRAWING No.	
W/BL/191		RGD W/BL/191-D	

REMOVE ALL SHARP EDGES



E	TITLE		DISC REF.
	SUPPORT BRACKET		
	MATERIAL	SCALE	TOLERANCES ±
	MILD STEEL	1:1	X 0.1 X.X X.XX
FINISH		No. REQD. PER UNIT	X X.X X.XX
CLEAN		1 OFF	
G.A. No.		DRAWING No.	
W/BL/191		RGD W/BL/191-E	

INPUT SIDE OF SPECTROPHOTOMETER



DETECTOR SIDE OF SPECTROPHOTOMETER SUPPORTED ON BRACKET

O	TITLE		DISC REF.
	ASSEMBLY		
	MATERIAL	SCALE	TOLERANCES ±
	BRASS	1:1	X 0.1 X.X X.XX
FINISH		No. REQD. PER UNIT	X X.X X.XX
CLEAN		1 OFF	
G.A. No.		DRAWING No.	
W/BL/191		RGD W/BL/191	

Tolerance (Unless otherwise stated)				Material		Dimns.in m.m.		Scale		THIRD ANGLE PROJECTION		GA No.	
X +/-				MILD STEEL		ROYAL GREENWICH OBSERVATORY		MADINGLEY ROAD		Title		Drawing No.	
X.X +/-				CLEAN		CAMBRIDGE CB3 0EZ		CB3 0EZ		4.2m WYFFOS - FIBRE FEED		W/BL/191	
X.XX +/-				FINISH		Used on				MICROLENS COATING CALIBRATION			
ANG. +/-													