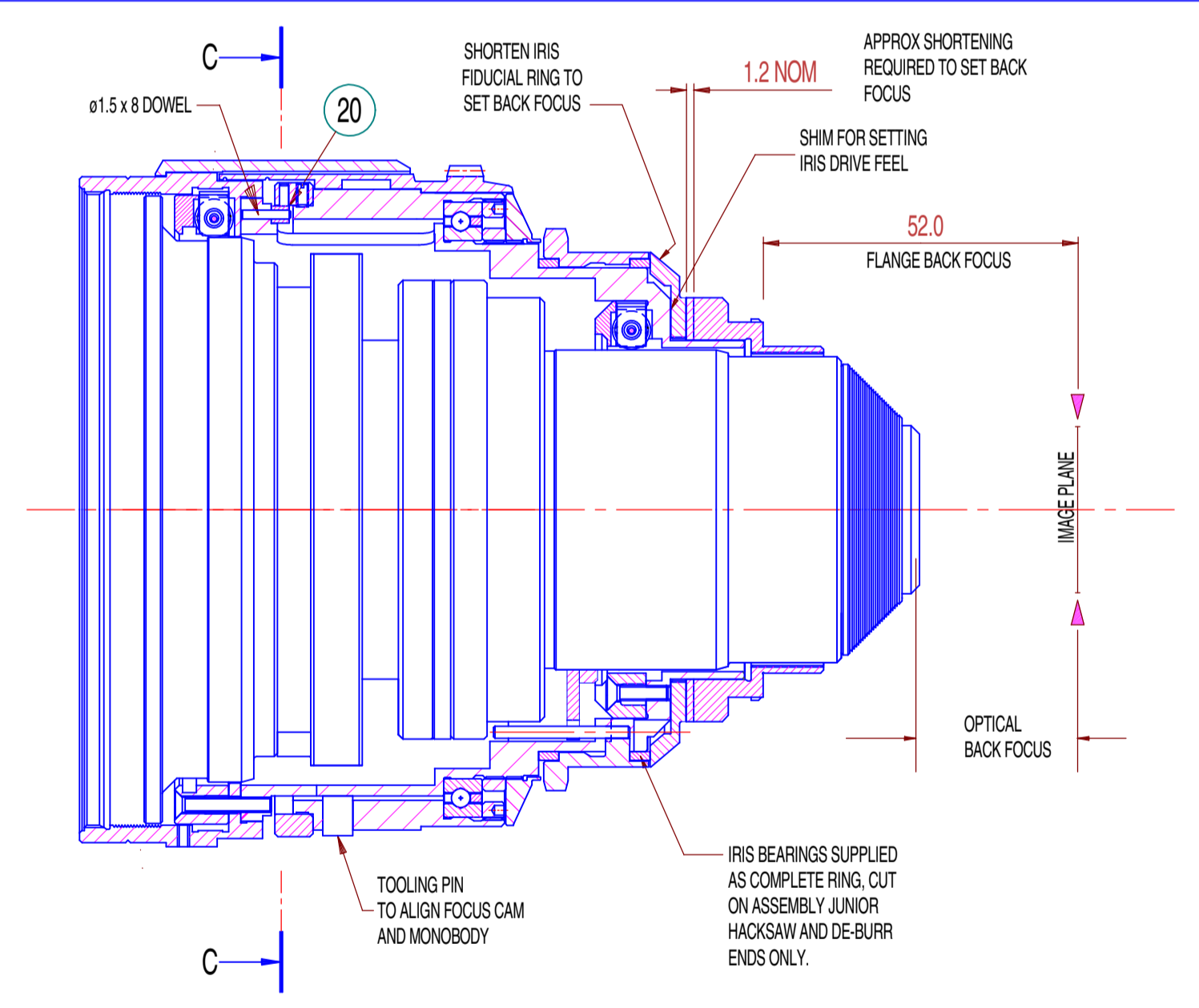
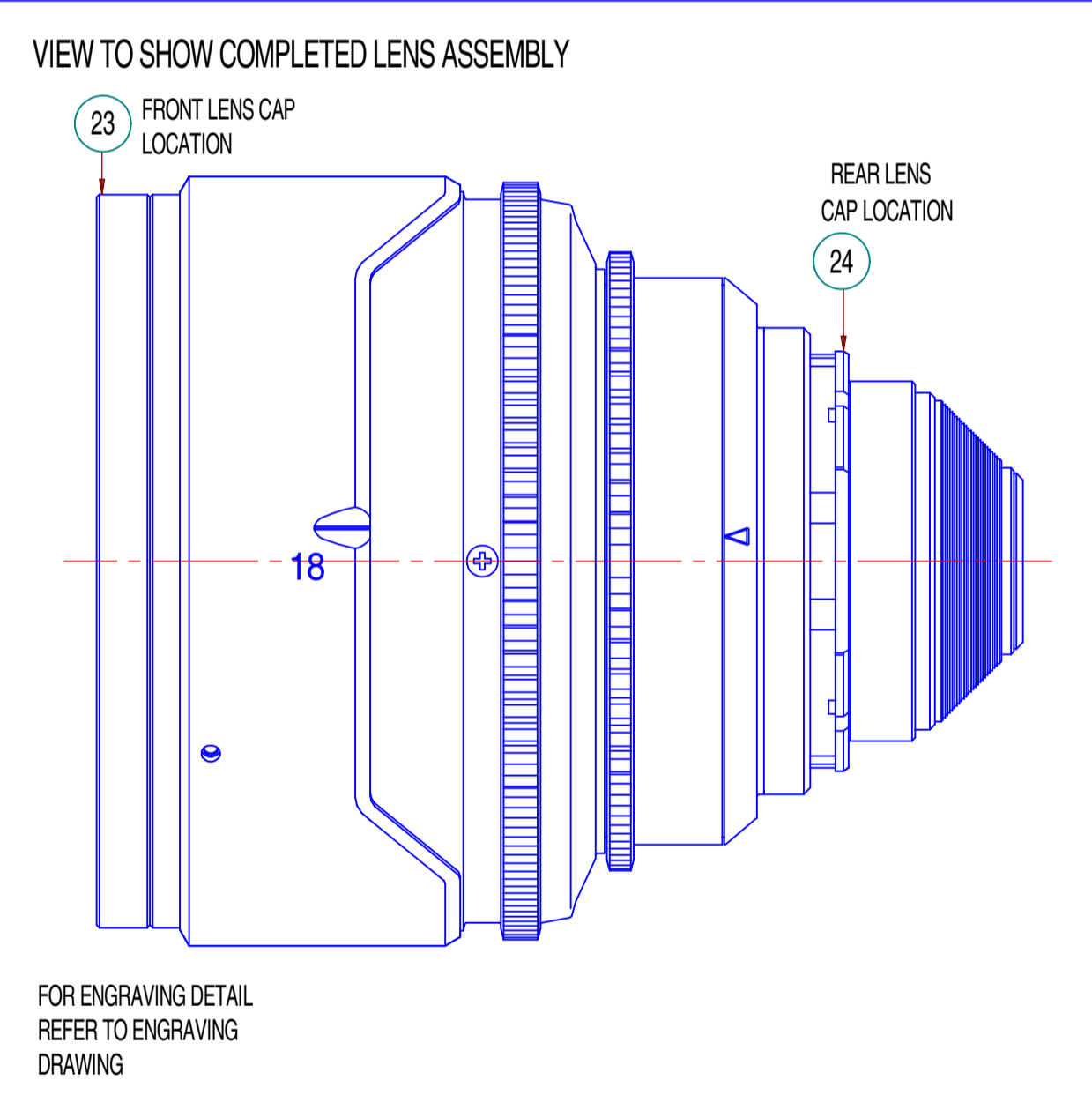
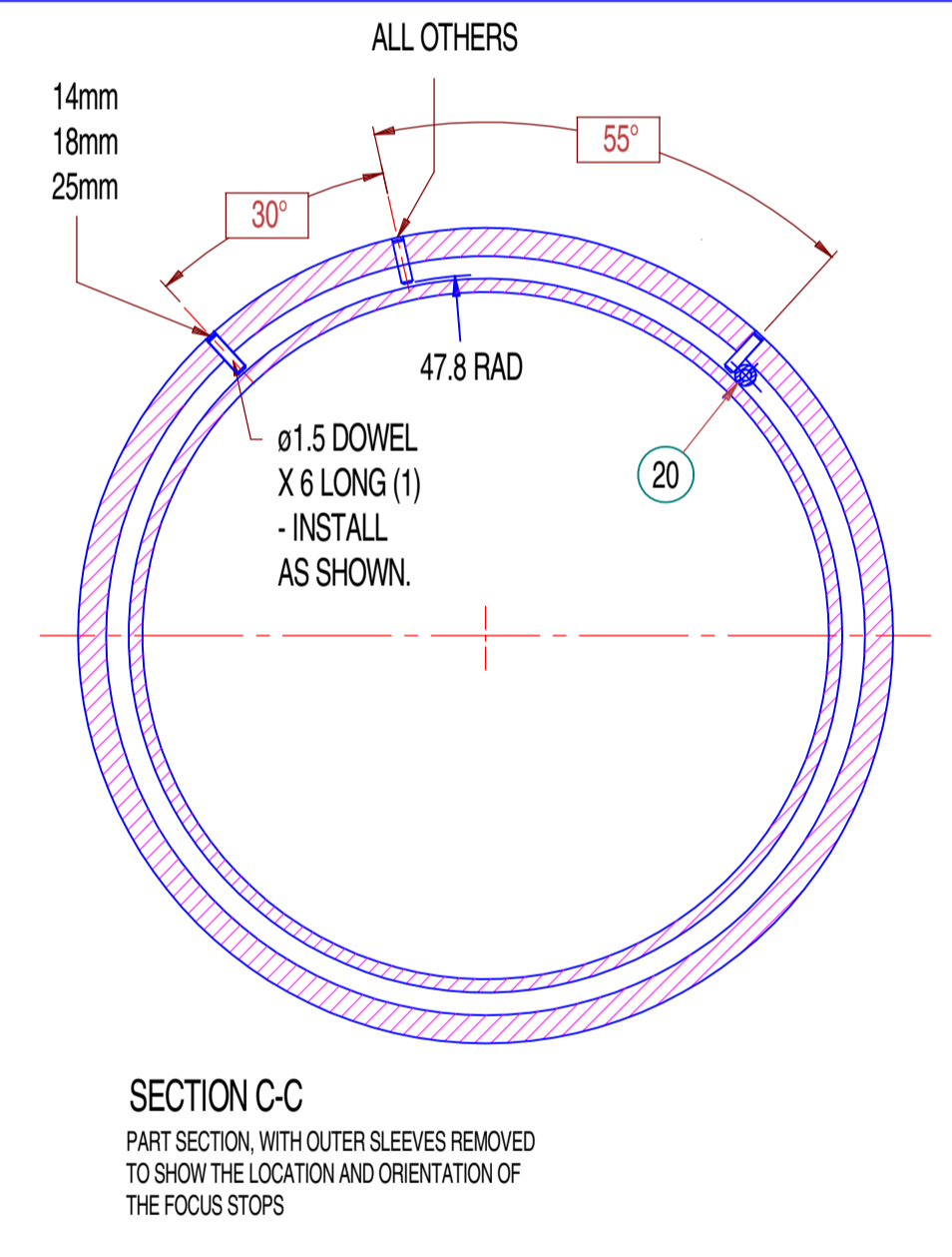
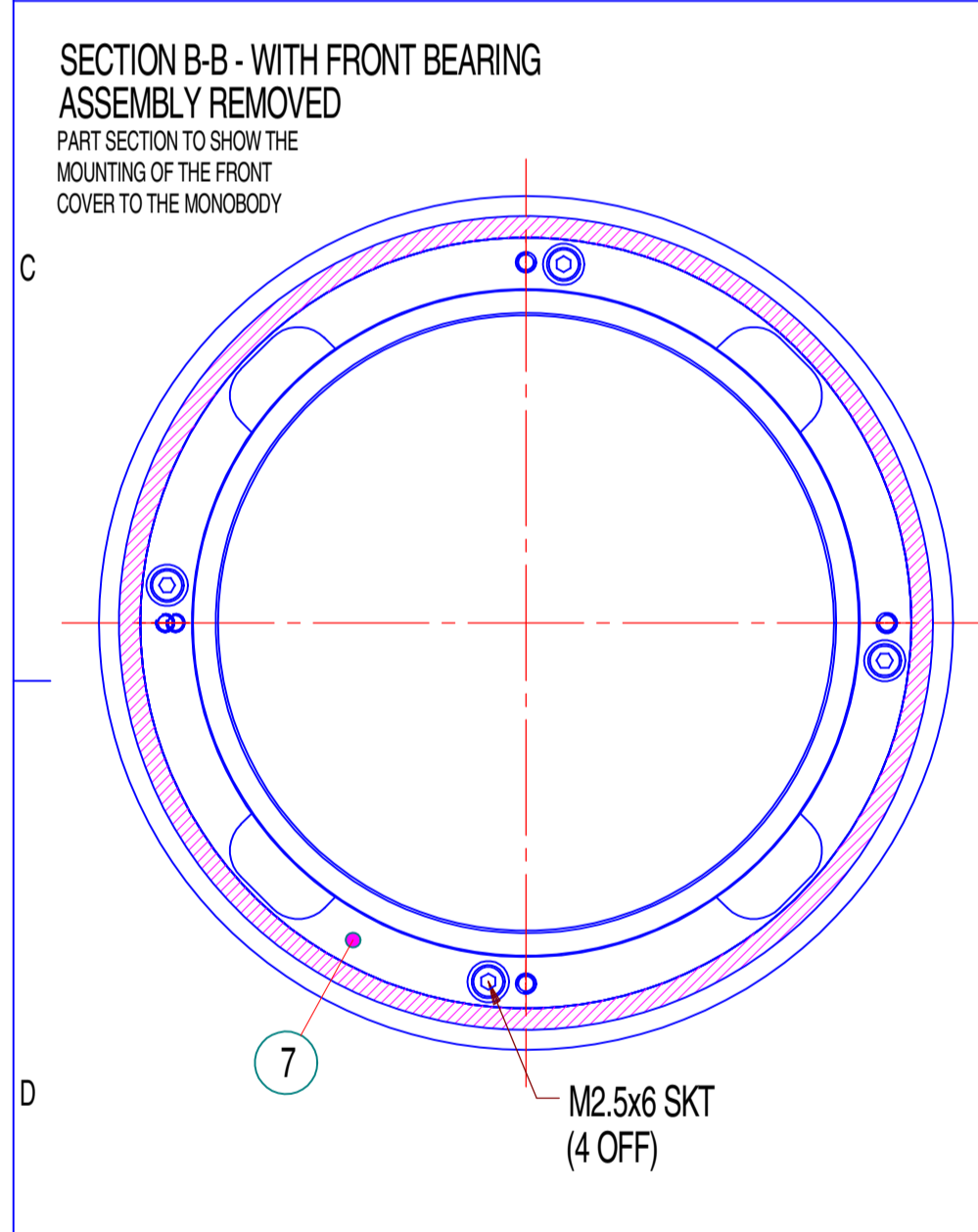


ITEM No.	DESCRIPTION	FOCAL LENGTHS								CODE	QTY.
		14	18	25	32	40	50	75	100		
1	OPTICAL HOUSING ASSEMBLY										1
2	FRONT BEARING ASSEMBLY	X	X	X	X	X	X	X	X	K301-1848	1
3	REAR BEARING ASSEMBLY	X	X	X	X	X	X	X	X	K301-1848	1
4	CAM FOLLOWER ASSEMBLY	X	X	X	X	X	X	X	X	K301-1847	1
5	MONOBODY	X								S4000-00031	1
										S4000-00030	1
										S4000-00029	1
7	FRONT COVER			X						46-6835	1
							X	X		46-6840	1
									X	46-6841	1
			X	X						46-6837	1
							X			46-7116	1
								X		46-7292	1
8	SCALE COVER	X	X	X	X	X	X	X	X	46-6801	1
9	FOCUS SCALE GEAR	X	X	X	X	X	X	X	X	46-6839	1
10	FOCUS CAM	X								46-6891	1
					X					46-6892	1
						X	X			46-6893	1
							X			46-6894	1
								X		46-6895	1
									X	46-6896	1
			X							46-7114	1
11	BEARING COVER RING	X	X	X	X	X	X	X	X	S4000-00067	1
12	OUTER CLAMP RING	X	X	X	X	X	X	X	X	46-6883	1
13	INNER CLAMP RING	X	X	X	X	X	X	X	X	46-6884	1
14	IRIS SCALE GEAR	X	X	X	X	X	X	X	X	46-6875	1
15	IRIS FIDUCIAL RING	X	X	X	X	X	X	X	X	46-6886	1
16	IRIS BEARING	2	2	2	2	2	2	2	2	46-6878	2
17	PL MOUNT	X	X	X	X	X	X	X	X	46-6501	1
18	IRIS DRIVE PIN	X	X	X	X	X	X	X	X	45-10243	1
19	FOCUS STOP RING	X	X	X	X	X	X	X	X	46-6880	1
20	FOCUS STOP	X	X	X	X	X	X	X	X	45-10167	1
21	IRIS STOP	4	4	4	4	4	4	4	4	45-10727	4
22	FOCUS BEARING	X	X	X	X	X	X	X	X	B640-870	1
23	FRONT LENS CAP	X	X	X	X	X	X	X	X	46-6808	1
24	REAR LENS CAP	X	X	X	X	X	X	X	X	46-6898	1
25	BACK FOCUS SHIM SET	X	X	X	X	X	X	X	X	46-6560	1
26	IRIS SHIM SET	X	X	X	X	X	X	X	X	46-6561	1

TITLE		
OVERALL ASSEMBLY DRAWING 14mm - 100mm S4 LENSES		
MATERIAL		
FINISH		
MACHINE FINISH Unless otherwise stated		
DRAWN BY		s4
DATE		31-10-00
ISSUE No.	DATE	CHANGE No.
1	31-10-00	
2	27-11-00	0089

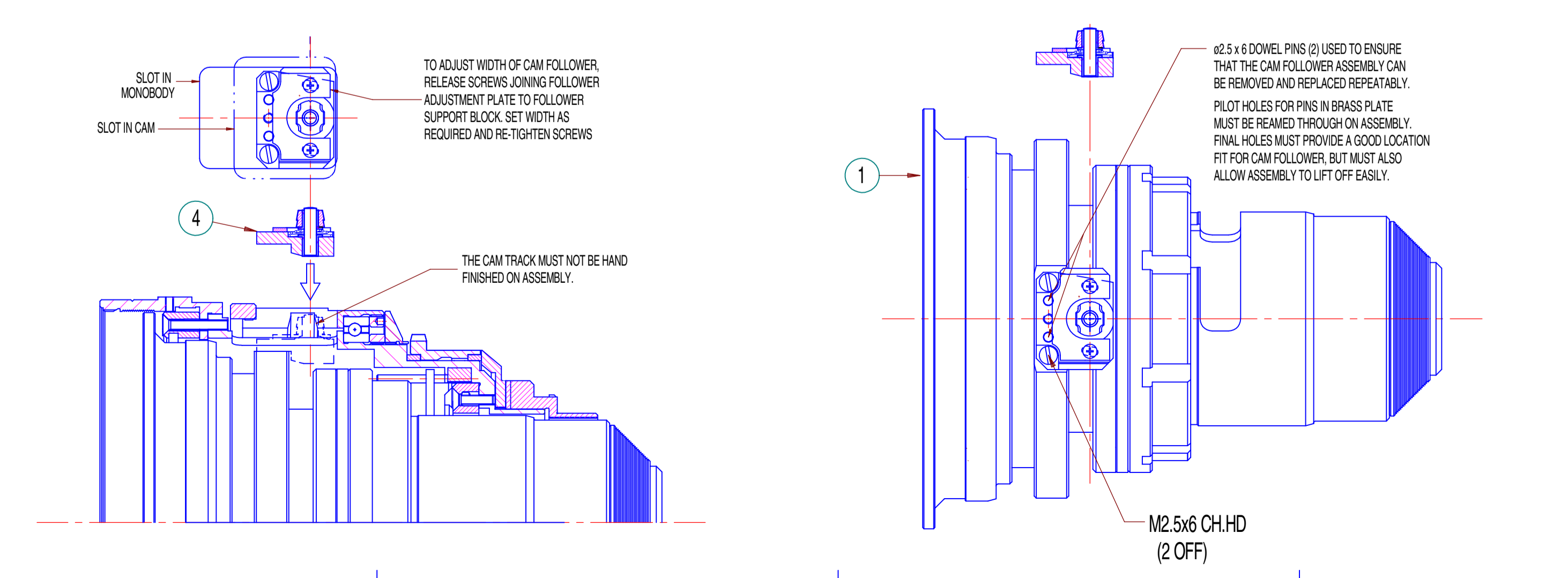


THIS DRAWING COVERS THE WHOLE OF THE S4 RANGE - THE LENS SHOWN IS THE 18mm LENS

SECTION A-A - VIEW WITH OPTICAL HOUSING IN PLACE
VIEW TO SHOW THE ASSEMBLY OF THE OPTICAL HOUSING INTO THE MAIN LENS ASSEMBLY, AND THE FIXING OF THE CAM FOLLOWER ASSEMBLY.

TO ASSEMBLE THE OPTICAL HOUSING INTO THE MAIN LENS ASSEMBLY:

- REMOVE OUTER SLEEVES - FOCUS SCALE GEAR AND SCALE COVER.
- LOAD OPTICAL HOUSING ASSEMBLY INTO MAIN LENS ASSEMBLY, WITH THE LOCATION FLAT FOR THE CAM FOLLOWER ASSEMBLY IN LINE WITH THE SLOT IN THE MONOBODY.
- ROTATE CAM UNTIL THE SLOTS IN THE CAM AND THE MONOBODY LINE UP.
- LOWER CAM FOLLOWER ASSEMBLY INTO PLACE.
- JOIN THE CAM FOLLOWER ASSEMBLY TO THE OPTICAL HOUSING AS SHOWN.
- ADJUST THE WIDTH OF THE SLIDING PORTION OF THE CAM FOLLOWER. THE CAM FOLLOWER SHOULD SLIDE FREELY FROM END TO END OF THE SLOT IN THE MONOBODY, WITH NO TIGHT SPOTS AND NO MORE THAN 0.02mm BACKLASH.
- REPLACE OUTER SLEEVES AS REQUIRED.



SECTION D-D
VIEW TO SHOW SETTING OF IRIS DRIVE, BACK FOCUS AND ASSEMBLY OF THE FOCUS STOPS.

TO SET IRIS DRIVE:

- AXIAL PLAY FROM THE IRIS DRIVE TO BE MINIMISED USING THE APPROPRIATE SHIM FROM THE IRIS SHIM SET.

TO SET BACK FOCUS:

- AFTER SETTING THE IRIS DRIVE FEEL, LOAD THE OPTICAL HOUSING INTO MAIN ASSEMBLY AND ATTACH THE CAM FOLLOWER.
- WITH THE CAM FOLLOWER IN THE CAM-TRACK, FIX THE POSITION OF THE FOCUS CAM, RELATIVE TO THE MONOBODY, WITH THE TOOLING PIN.
- THE CAM FOLLOWER WILL NOW BE POSITIONED EXACTLY AT THE INFINITY POSITION OF THE CAM TRACK.
- ENSURE THAT THE WHITE BACK FOCUS SHIM IS IN PLACE, IN BETWEEN THE PL MOUNT AND THE IRIS FIDUCIAL RING. THE REMAINING SHIMS FROM THE BACK FOCUS SHIM SET WILL BE SUPPLIED TO THE CUSTOMER.
- SET THE OPTICAL BACK FOCUS AND SHORTEN THE IRIS FIDUCIAL RING AS APPROPRIATE.
- REMOVE THE TOOLING PIN AND REPLACE THE OUTER SLEEVES.

TO SET THE FOCUS STOPS:

- THE FOCUS STOP WILL ALLOW THE FOCUS CAM TO ROTATE 300°. AFTER SETTING THE BACK FOCUS, THE FOCUS STOP SHOULD BE SET TO ALLOW NO FOCUS TRAVEL PAST INFINITY.

STATUS	M
USED ON	
3rd ANGLE PROJECTION	
DRG. CONFORMS TO BS308	
SCALE	DIM IN DRG SIZE
1:1	MM A1
Cooke OPTICS LIMITED LEICESTER ENGLAND	
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plotted by	
DRG NO.	S4000-00093 SHEET 1 OF 1