

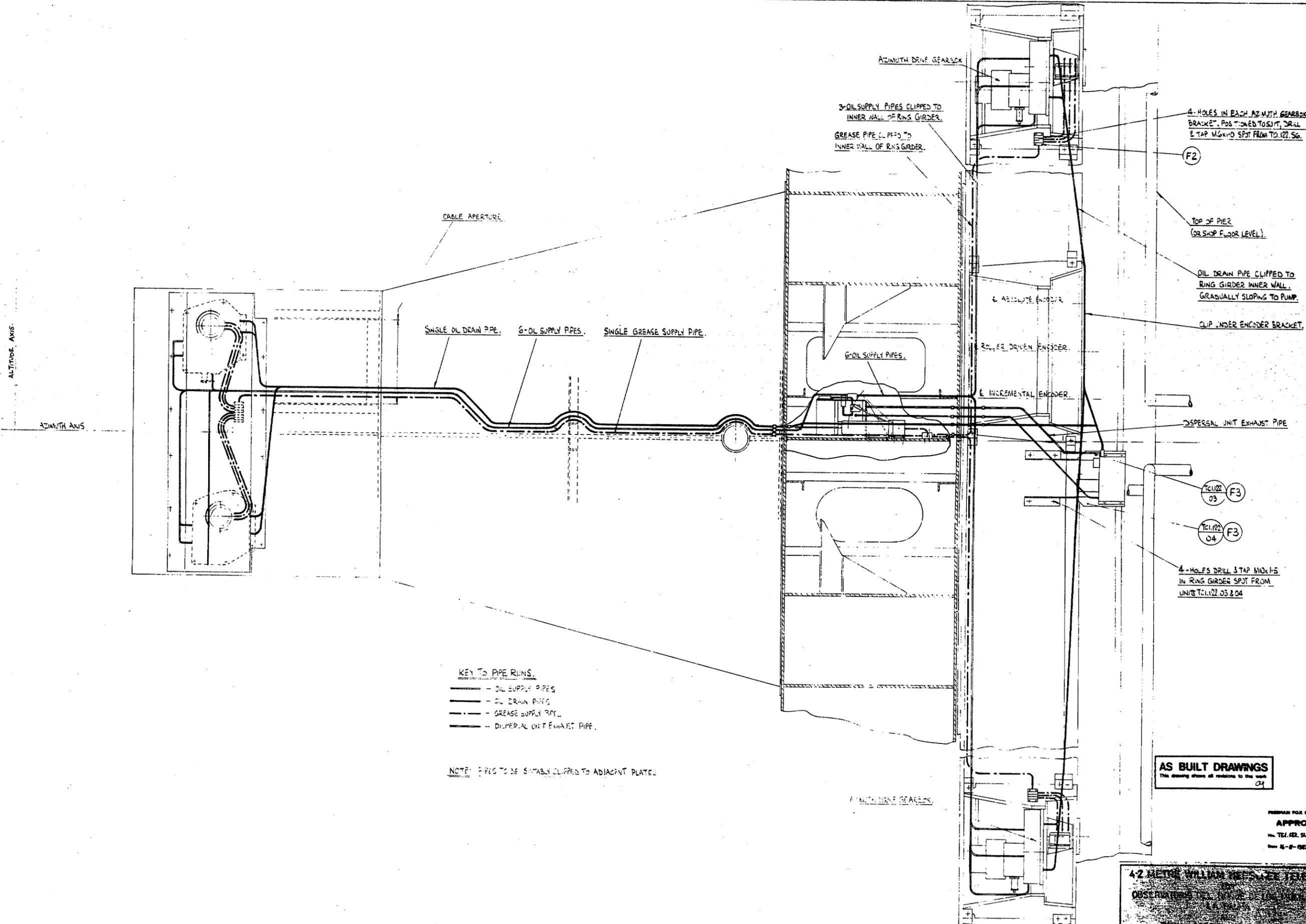
KEY TO PIPE RUNS
 - OIL SUPPLY PIPES
 - OIL DRAIN PIPES
 - GREASE SUPPLY PIPES
 - DISPERSAL UNIT EXHAUST PIPE

AS BUILT DRAWINGS
 This drawing shows all variations to the work
 29

FREEMAN FOX & PARTNERS
APPROVED
 M. TELFER, SEN. A
 14-8-58

42 METRE WILD CAT TELESCOPE
 TELESCOPE DRIVE MECHANISM
 PART 2 OF 3
 NEWCASTLE UPON TYNE

SURFACE FINISH EQUIVALENTS MICROMETRES 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 DECIMALS 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 MILLIMETRES 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	SURFACE FINISH SYMBOLS ✓ DENOTES NOT NECESSARILY MACHINED □ DENOTES MACHINED	WELD SYMBOLS TO BS 499 PART 2	FABRICATION TOLERANCES DIMENSIONS UP TO 250 ± 0.20 DIMENSIONS FROM 250 TO 2500 ± 0.30 ANGLES ± 1:100 STRAIGHTNESS/FLATNESS 1:100	THIS DRAWING IS THE PROPERTY OF NEI PARSONS LTD. AND MUST NOT BE COPIED OR DISCLOSED TO A THIRD PARTY WITHOUT GRUBB PARSONS WRITTEN CONSENT.	GENERAL MACHINING TOLERANCES UNLESS OTHERWISE SPECIFIED DIMENSIONS WITH - OVER ± 0.02 DIMENSIONS WITH + OVER ± 0.02 DIMENSIONS WITH - OVER ± 0.01 DIMENSIONS WITH + OVER ± 0.01	ALL DIMENSIONS ARE IN MILLIMETRES. ANGLES - SCREW THREADS TO B.S. 3643 PART 2 MEDIUM FIT MACHINED DIA CONCENTRIC TO 0.1 T.I.R.	PROJECTION - FIRST ANGLE 3rd ANGLE APPROVED DATE 14/8/58 BY M.F.	DRAWN BY M.F. CHECKED BY M.F. DATE 14/8/58 BY M.F.	GRUBB PARSONS NEWCASTLE UPON TYNE NEG 213 SCALE DRAWING NUMBER SHEET 1 OF 3 PART 2 OF 3



CABLE APERTURE

SINGLE OIL DRAIN PIPE

6 OIL SUPPLY PIPES

SINGLE GREASE SUPPLY PIPE

AZIMUTH DRIVE GEAR BOX

3 OIL SUPPLY PIPES CLIPPED TO INNER WALL OF RING GIRDER

GREASE PIPE CLIPPED TO INNER WALL OF RING GIRDER

4 HOLES IN EACH AZIMUTH GEAR BOX BRACKET. POSITIONED TO SUIT, DRILL & TAP M6X1.0 SPOT FROM TC1.122.56

F2

TOP OF PIER (OR SHOP FLOOR LEVEL)

OIL DRAIN PIPE CLIPPED TO RING GIRDER INNER WALL, GRADUALLY SLOPING TO PUMP

CLIP UNDER ENCODER BRACKET

6 OIL SUPPLY PIPES

ABSOLUTE ENCODER

ROLLER DRIVEN ENCODER

INCREMENTAL ENCODER

DISPERSAL UNIT EXHAUST PIPE

TC1.122.03 F3

TC1.122.04 F3

4 HOLES DRILL & TAP M6X1.0 IN RING GIRDER SPOT FROM UNITS TC1.122.03 & 04

KEY TO PIPE RUNS.

— OIL SUPPLY PIPES

— OIL DRAIN PIPES

— GREASE SUPPLY PIPE

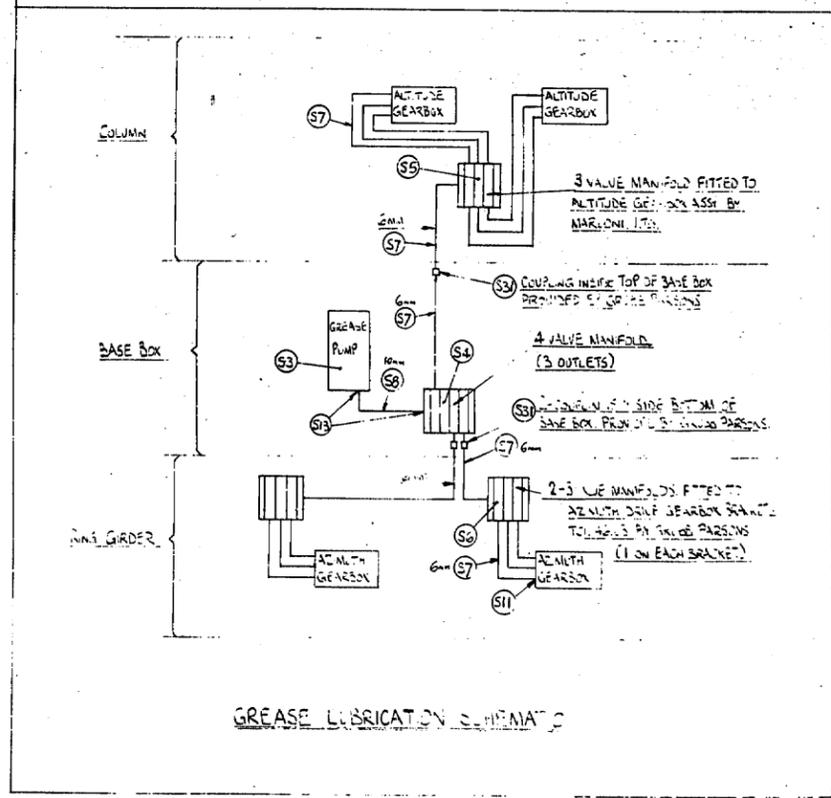
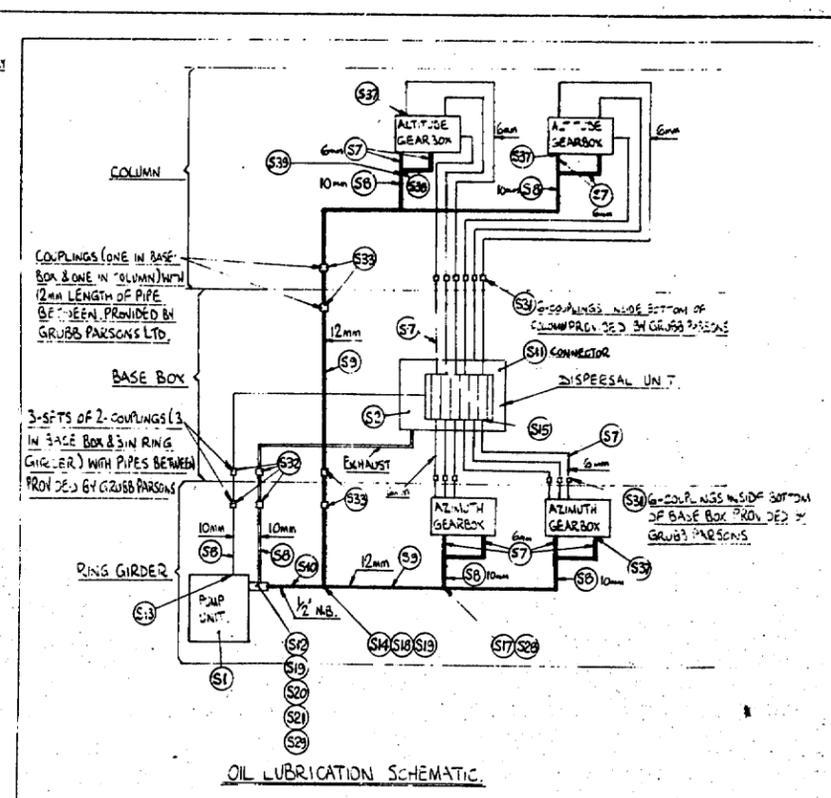
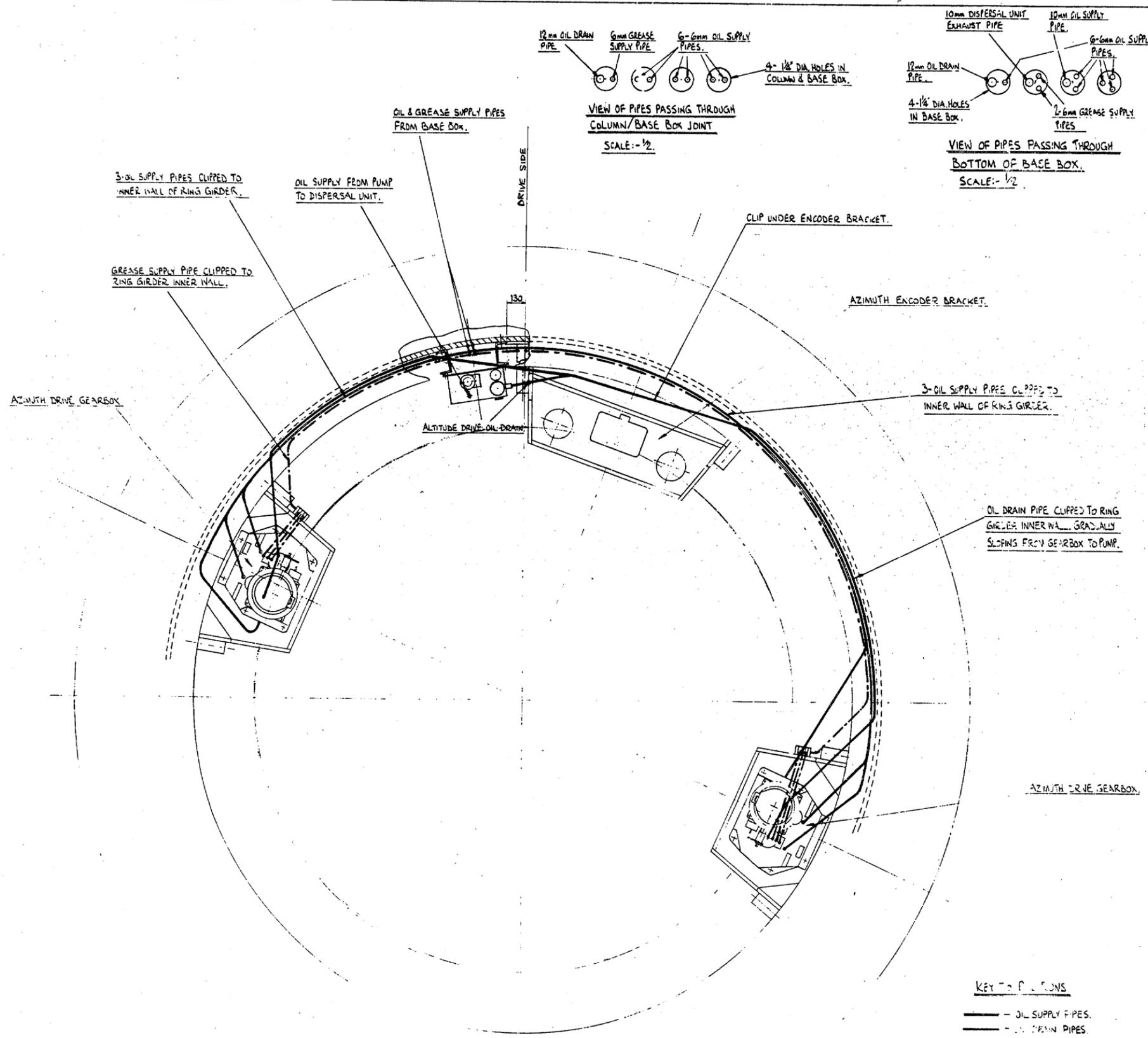
— DISPERSAL UNIT EXHAUST PIPE

NOTE: PIPES TO BE SUITABLY CLIPPED TO ADJACENT PLATES

AS BUILT DRAWINGS
This drawing shows all relations to the work

PREPARED FOR & DRAWN BY
APPROVED
TC1.122.542
15-10-82

42 METRE WILLIAM HERSCHEL TELESCOPE
OBSERVATORY

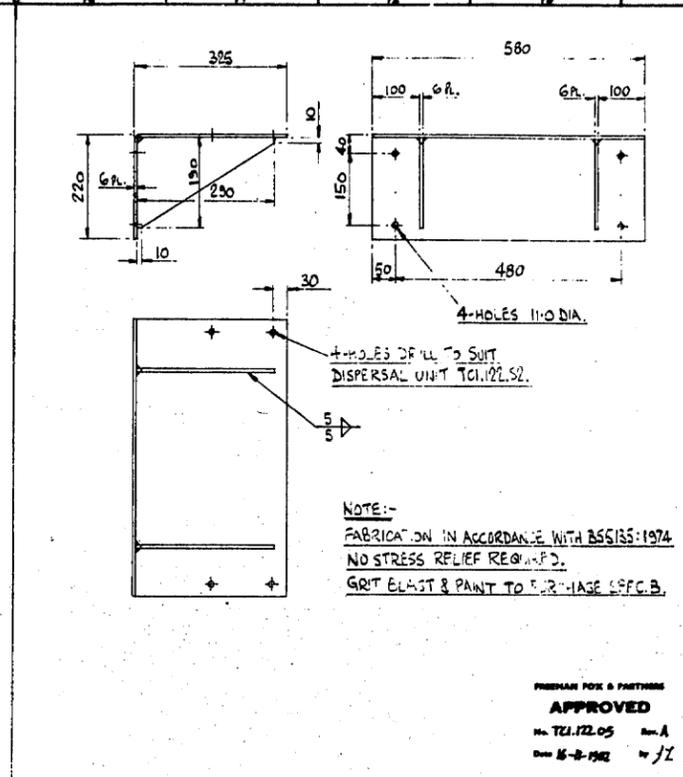
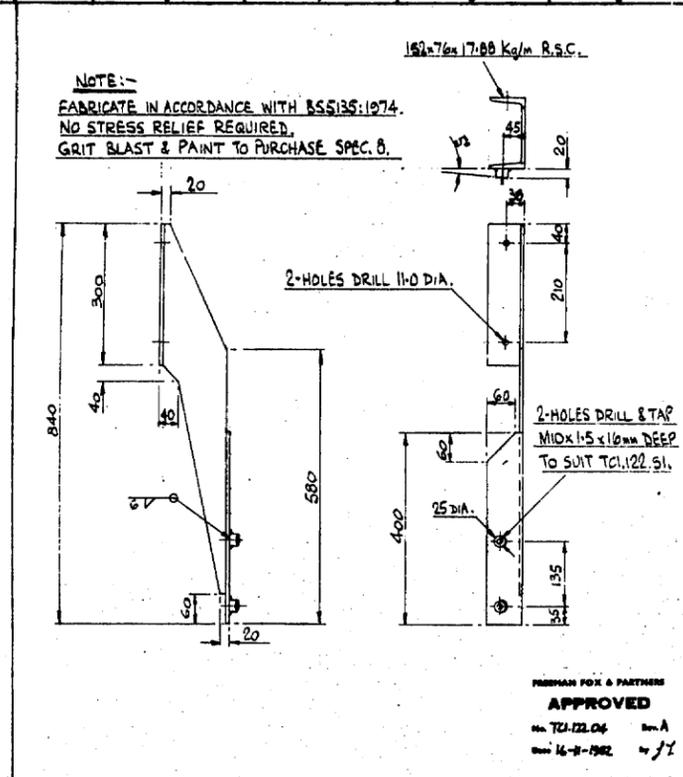
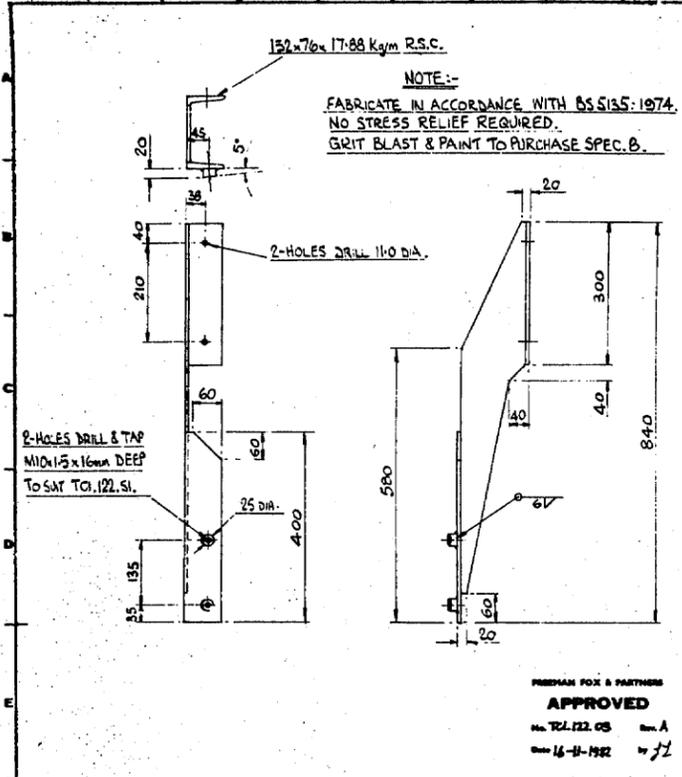


AS BUILT DRAWINGS
This drawing shows all revisions to the work

FRESHFIELD PARTNERS
APPROVED
No. TEL 122 5613
14-8-1982

4.2 METRE WILLIAMS TELESCOPE
TELESCOPE
TOTAL WEIGHT

THIS DRAWING IS THE PROPERTY OF HEI PARSONS LTD. AND MUST NOT BE COPIED OR DISCLOSED TO A THIRD PARTY WITHOUT GRUBB PARSONS WRITTEN CONSENT.	ALL DIMENSIONS ARE IN MILLIMETRES	PROJECTION: UNIFIED	DATE: 15/10/82	DRAWN: R. R. R. DATE: 15/10/82	TITLE: ASSEMBLY OF DRIVE LUBRICATION	SCALE: 1:1	SHEET 3 OF 3
		3rd ANGLE	APPROVED: [Signature]				



DATE OF MODIFIED BY	DATE OF MODIFIED BY	FIRST MADE ORD No. 116764	MATERIAL 152x76x17.88 R.S.C.
		FIRST ISSUE DATE	FINISH TO BS 499
		COST ACCOUNT 122	PART No.
DATE OF MODIFIED BY	DATE OF MODIFIED BY	TITLE OIL PUMP BRACKET	
		WEIGHT 6.4 Kg	SCALE 1/5
		UNIT No. TCl.122.03	ISSUE A

DATE OF MODIFIED BY	DATE OF MODIFIED BY	FIRST MADE ORD No. 116764	MATERIAL 152x76x17.88 R.S.C.
		FIRST ISSUE DATE	FINISH TO BS 499
		COST ACCOUNT 122	PART No.
DATE OF MODIFIED BY	DATE OF MODIFIED BY	TITLE OIL PUMP BRACKET	
		WEIGHT 6.4 Kg	SCALE 1/5
		UNIT No. TCl.122.04	ISSUE A

DATE OF MODIFIED BY	DATE OF MODIFIED BY	FIRST MADE ORD No. 116764	MATERIAL 152x76x17.88 R.S.C.
		FIRST ISSUE DATE	FINISH TO BS 499
		COST ACCOUNT 122	PART No.
DATE OF MODIFIED BY	DATE OF MODIFIED BY	TITLE OIL DISPERSAL UNIT BRACKET	
		WEIGHT 17.5 Kg	SCALE 1/5
		UNIT No. TCl.122.05	ISSUE A