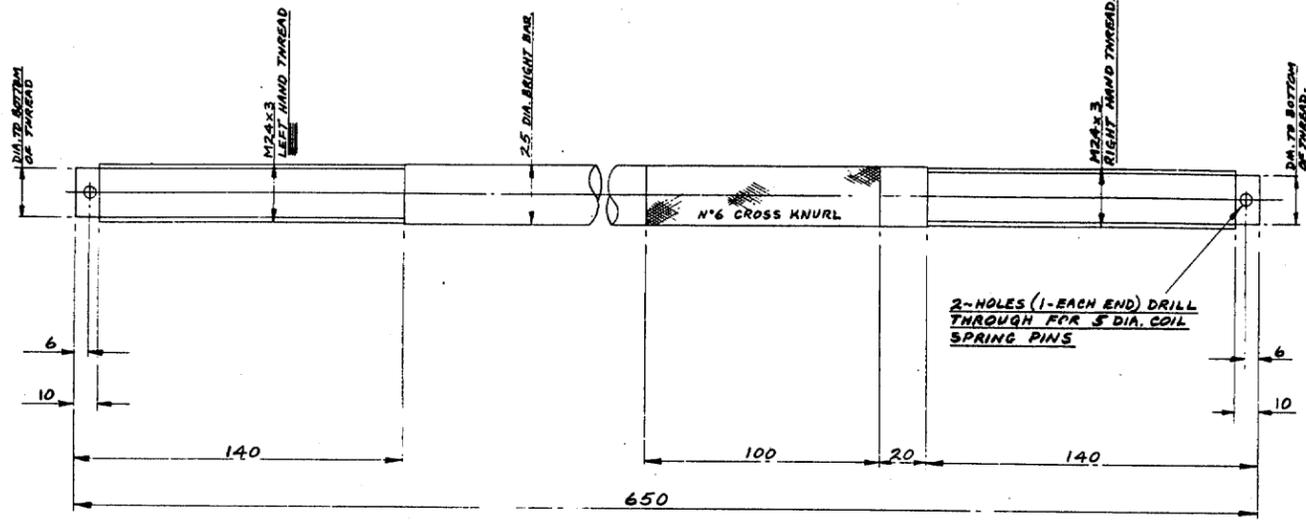
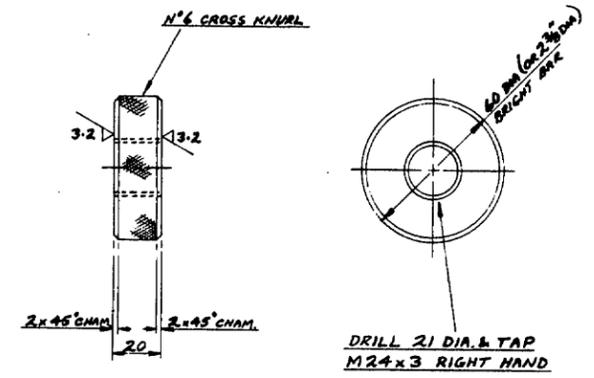


A. Clark and Parsons	SURFACE FINISH EQUIVALENTS THIS DRAWING CONFORMS TO B.S. 308	SURFACE FINISH SYMBOLS ✓ DENOTES NOT NECESSARILY MACHINED ✓ DENOTES MACHINED	WELD SYMBOLS TO BS 499 PART 2 1988	FABRICATION TOLERANCES DIMENSIONS UP TO 250 ± 0.20 DIMENSIONS FROM 250 TO 2500 ± 0.30 ANGLES ± 1' 00" STRAIGHTNESS/FLATNESS 1: 500	THIS DRAWING IS THE PROPERTY OF M&I PARSONS LTD. AND MUST NOT BE COPIED OR DISCLOSED TO A THIRD PARTY WITHOUT GRUBB PARSONS WRITTEN CONSENT.	ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED ANGLES & BORE TOLERANCES TO B.S. 2843 PART 2 MEDIUM FIT MACHINED SURF. CONFORMING TO G1 T1.2	GRUBB PARSONS NEWCASTLE UPON TYNE NE6 6PS ASSY. OF TOP RING (TUBE TIES)	APPROVED T. 25 2/1 - A 22-12-83 TC12/3
	DATE: 22-12-83							

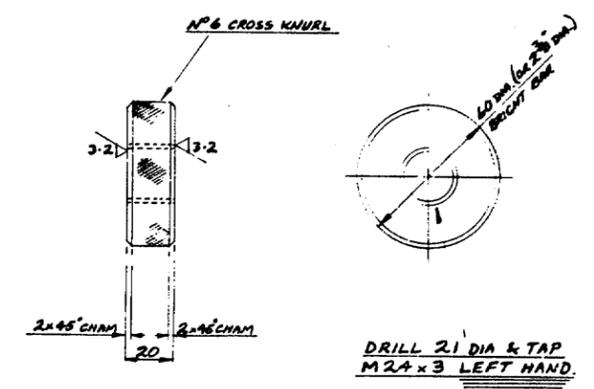


THREADS TO BE CUT TO GIVE AN EASY RUNNING FIT ON FEMALE UNITS

FRESHMAN FOX & PARTNERS
APPROVED
 No. TCI 213 20 Rev. A
 Date 17-1-1984 by J.L.



FRESHMAN FOX & PARTNERS
APPROVED
 No. TCI 213 21 Rev. A
 Date 17-1-1984 by J.L.

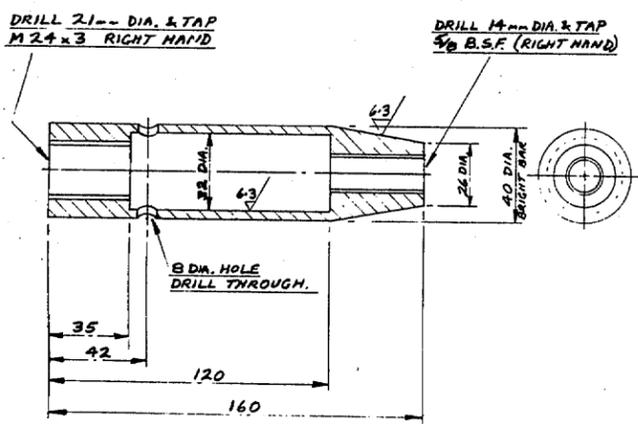


FRESHMAN FOX & PARTNERS
APPROVED
 No. TCI 213 22 Rev. A
 Date 17-1-1984 by J.L.

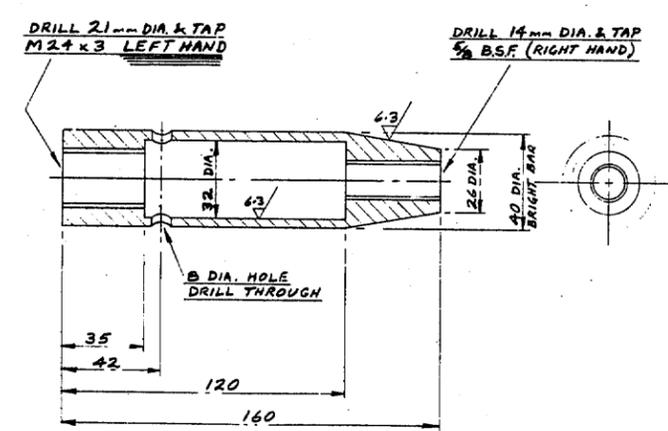
DATE OF MOD. RECORDED BY	DATE OF MOD. RECORDED BY	FIRST MADE ORD No. 118764	MATERIAL	FINISH	PATT No.
		FIRST ISSUE DATE			
		COST ACCOUNT	213		
TITLE TIEROD					
WEIGHT		SCALE	UNIT No.	ISSUE	
No. OFF PER SET 2		1:1	TCI 213 20	A	

DATE OF MOD. RECORDED BY	DATE OF MOD. RECORDED BY	FIRST MADE ORD No. 118764	MATERIAL	FINISH	PATT No.
		FIRST ISSUE DATE			
		COST ACCOUNT	213		
TITLE CHECKNUT (R.H.)					
WEIGHT		SCALE	UNIT No.	ISSUE	
No. OFF PER SET 2		1:1	TCI 213 21	A	

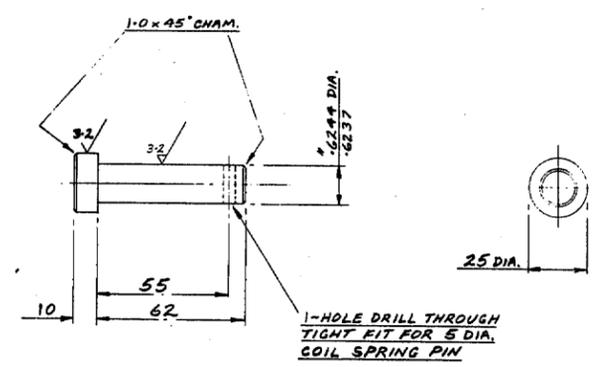
DATE OF MOD. RECORDED BY	DATE OF MOD. RECORDED BY	FIRST MADE ORD No. 118764	MATERIAL	FINISH	PATT No.
		FIRST ISSUE DATE			
		COST ACCOUNT	213		
TITLE CHECKNUT (L.H.)					
WEIGHT		SCALE	UNIT No.	ISSUE	
No. OFF PER SET 2		1:1	TCI 213 22	A	



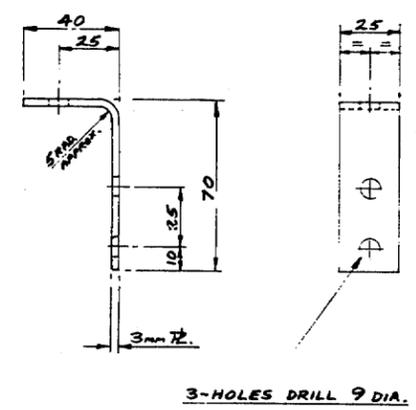
FRESHMAN FOX & PARTNERS
APPROVED
 No. TCI 213 23 Rev. A
 Date 17-1-1984 by J.L.



FRESHMAN FOX & PARTNERS
APPROVED
 No. TCI 213 24 Rev. A
 Date 17-1-1984 by J.L.



FRESHMAN FOX & PARTNERS
APPROVED
 No. TCI 213 25 Rev. A
 Date 17-1-1984 by J.L.



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

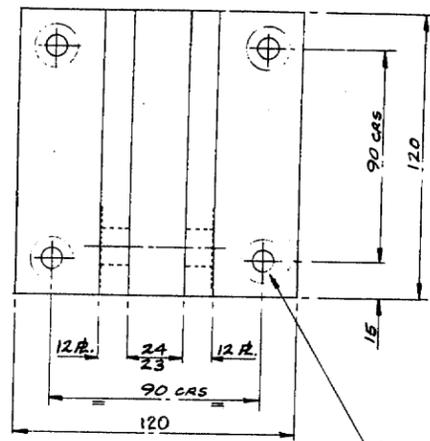
FRESHMAN FOX & PARTNERS
APPROVED
 No. TCI 213 26 Rev. A
 Date 17-1-1984 by J.L.

DATE OF MOD. RECORDED BY	DATE OF MOD. RECORDED BY	FIRST MADE ORD No. 118764	MATERIAL	FINISH	PATT No.
		FIRST ISSUE DATE			
		COST ACCOUNT	213		
TITLE ROD END (R.H.)					
WEIGHT		SCALE	UNIT No.	ISSUE	
No. OFF PER SET 2		1:1	TCI 213 23	A	

DATE OF MOD. RECORDED BY	DATE OF MOD. RECORDED BY	FIRST MADE ORD No. 118764	MATERIAL	FINISH	PATT No.
		FIRST ISSUE DATE			
		COST ACCOUNT	213		
TITLE ROD END (L.H.)					
WEIGHT		SCALE	UNIT No.	ISSUE	
No. OFF PER SET 2		1:1	TCI 213 24	A	

DATE OF MOD. RECORDED BY	DATE OF MOD. RECORDED BY	FIRST MADE ORD No. 118764	MATERIAL	FINISH	PATT No.
		FIRST ISSUE DATE			
		COST ACCOUNT	213		
TITLE PIN					
WEIGHT		SCALE	UNIT No.	ISSUE	
No. OFF PER SET 2		1:1	TCI 213 25	A	

DATE OF MOD. RECORDED BY	DATE OF MOD. RECORDED BY	FIRST MADE ORD No. 118764	MATERIAL	FINISH	PATT No.
		FIRST ISSUE DATE			
		COST ACCOUNT	213		
TITLE BRACKET					
WEIGHT		SCALE	UNIT No.	ISSUE	
No. OFF PER SET 2		1:1	TCI 213 26	A	



1-HOLE .6250 DIA. THROUGH BOTH PLATES - SPOTFACE EXTERNAL SURFACES 34mm DIA.

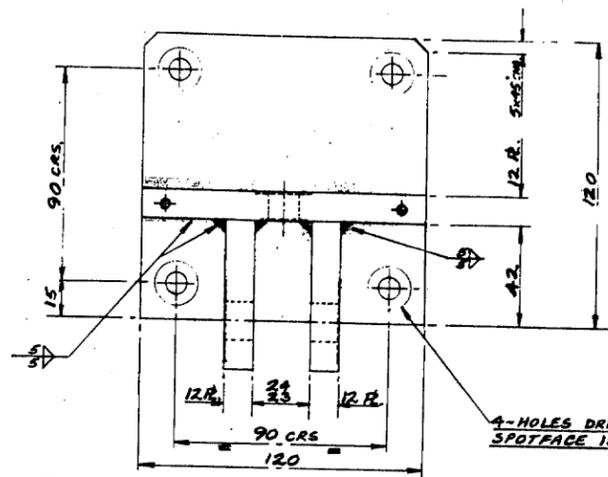
MACHINE THIS SURFACE ONLY IF NECESSARY TO CLEAN UP FLAT TO WITHIN 1:600

4-HOLES DRILL 13 DIA. SPOTFACE 18 DIA.

FABRICATE TO BS 5135 NO STRESS RELIEF REQUIRED GRIT BLAST & PRIMER PAINT

PREPARED BY FOX & PARTNERS
APPROVED
No. TC1 213 27 Rev. A
Date 17-1-1984 by J.L.

DATE OF MOD MODIFIED BY	DATE OF MOD MODIFIED BY	FIRST MADE ORD No. 118764	MATERIAL STEEL BS 4360 - 43A
		FIRST ISSUE DATE	FINISH
		COST ACCOUNT 213	PART No.
TITLE BRACKET			
WEIGHT	SCALE 1:1	UNIT No. TC1 213 27	REV. B



4-HOLES DRILL 13 DIA. SPOTFACE 18 DIA.

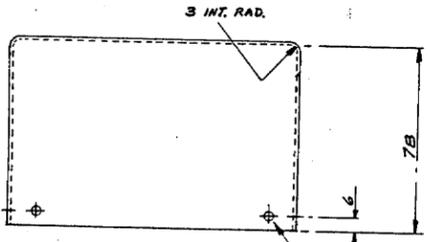
1-HOLE .6250 DIA. THROUGH BOTH PLATES - SPOTFACE EXTERNAL SURFACES 34mm DIA.

1-HOLE DRILL 12.5 DIA. SPOTFACE 20 DIA. BOTH SIDES.

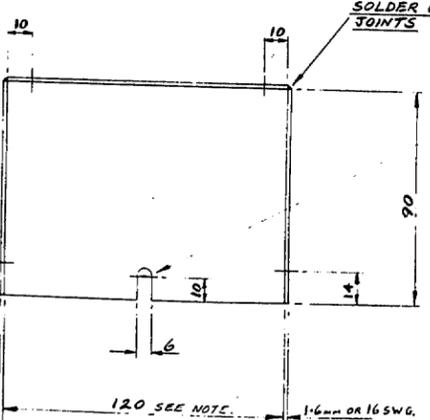
FABRICATE TO BS 5135 NO STRESS RELIEF REQUIRED GRIT BLAST & PRIMER PAINT

PREPARED BY FOX & PARTNERS
APPROVED
No. TC1 213 28 Rev. A
Date 17-1-1984 by J.L.

DATE OF MOD MODIFIED BY	DATE OF MOD MODIFIED BY	FIRST MADE ORD No. 118764	MATERIAL STEEL BS 4360 - 43A
		FIRST ISSUE DATE	FINISH
		COST ACCOUNT 213	PART No.
TITLE BRACKET			
WEIGHT	SCALE 1:1	UNIT No. TC1 213 28	REV. B



4-HOLES DRILL 4.5 DIA.



SOLDER OR BRAZE JOINTS

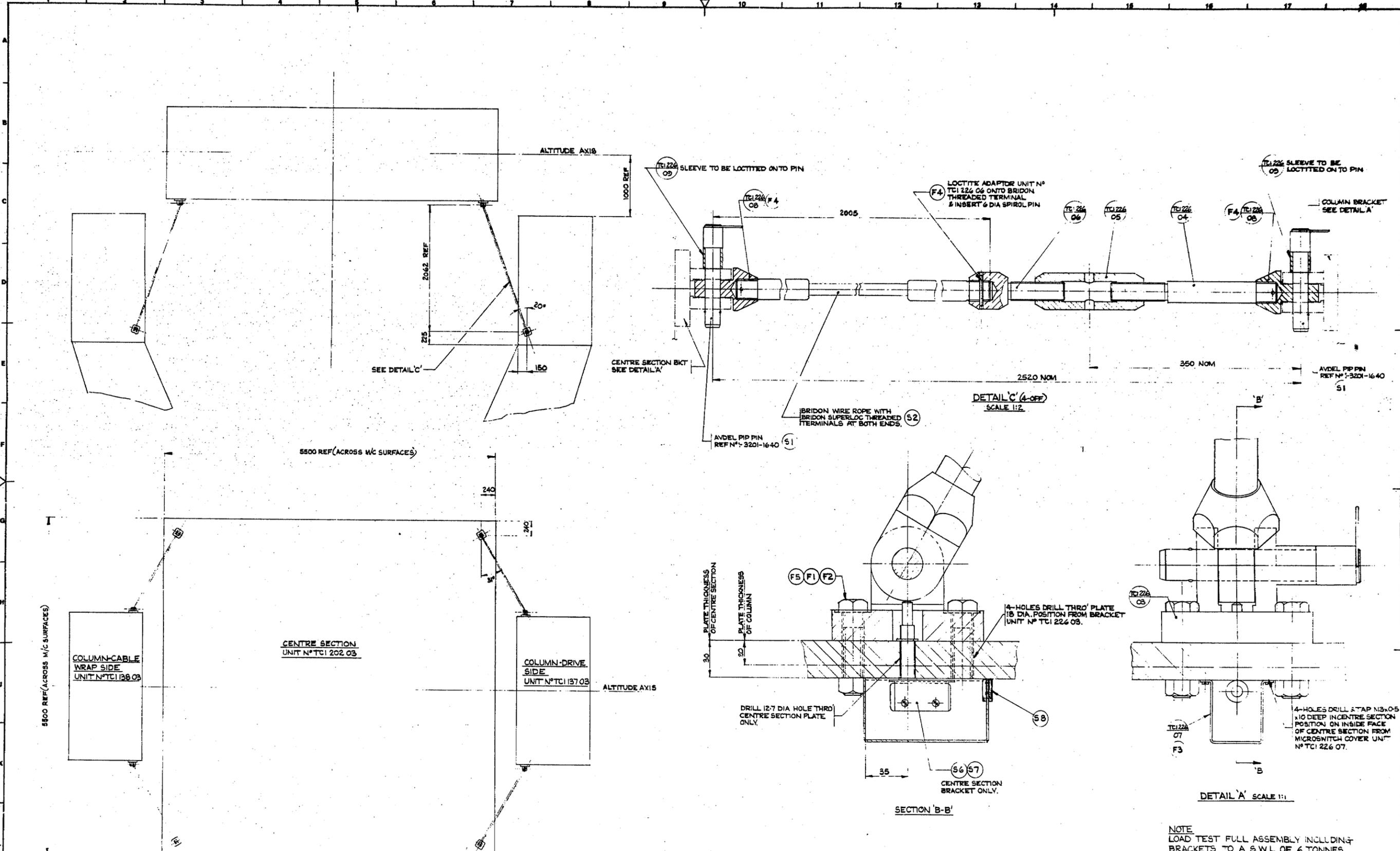
"DEE" SLOT FOR CABLE ENTRY GROMMET

NOTE :-
TAILOR COVERS TO FIT BRACKETS UNITS NO TC1 213 28

PREPARED BY FOX & PARTNERS
APPROVED
No. TC1 213 29 Rev. A
Date 17-1-1984 by J.L.

DATE OF MOD MODIFIED BY	DATE OF MOD MODIFIED BY	FIRST MADE ORD No. 118764	MATERIAL 1.6mm THK OR 16 SWG STEEL BS 4360
		FIRST ISSUE DATE	FINISH
		COST ACCOUNT 213	PART No.
TITLE MICROSWITCH COVER			
WEIGHT	SCALE 1:1	UNIT No. TC1 213 29	REV. A

AS BUILT DRAWINGS
This drawing shows all variations to this work
CS



NOTE
LOAD TEST FULL ASSEMBLY INCLUDING
BRACKETS TO A S.W.L OF 6 TONNES

ORDER N° 118764

AS BUILT DRAWINGS
The drawing shows all modifications to the work.

PREPARED BY: **APPROVED**
No. TC1.226 Rev. C
Date: 12-5-1982 by: J.C.

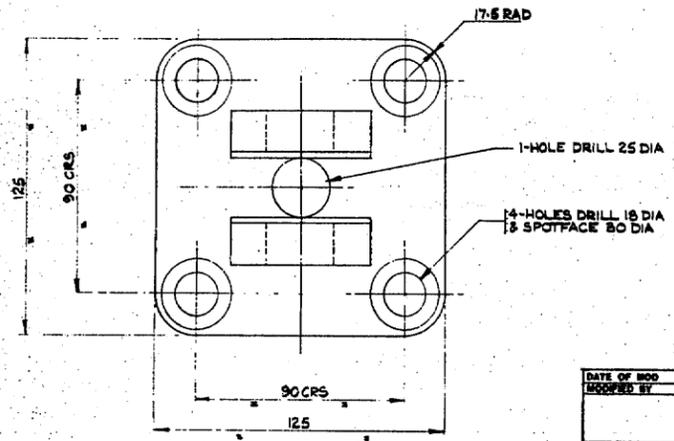
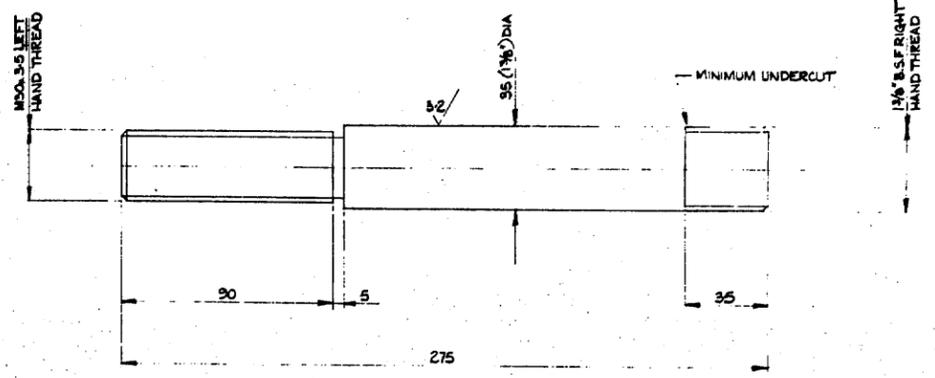
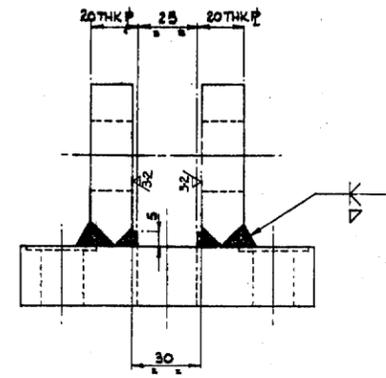
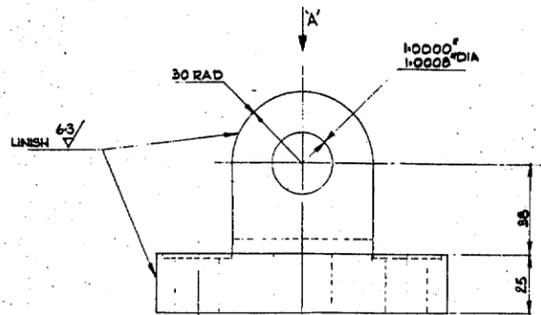
DESIGNED BY: **APPROVED**
No. TC1.226 Rev. B
Date: 20-9-1981 by: J.Z.

DATE OF MOD 14-1-82
MODIFIED BY: A. Brown
MODIFIED BY REQUEST OF: R.E.D.

DATE OF MOD 25-1-83
MODIFIED BY: S.G. HALL
FS Approved.

A merger of Clarke Chapman and Rayrolle Parsons	SURFACE FINISH EQUIVALENTS		SURFACE FINISH SYMBOLS		WELD SYMBOLS		FABRICATION TOLERANCES		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		ALL DIMENSIONS ARE IN MILLIMETRES		PROJECTION		DRAWN		DATE		TITLE		DRAWING NUMBER		SHEET	
	DIMENSIONS UP TO 250 ± 0.20 DIMENSIONS FROM 250 TO 2500 ± 0.30 ANGLES ± 1: 600 STRAIGHTNESS/FLATNESS 1: 600		✓ DENOTES NOT NECESSARILY MACHINED ▽ DENOTES MACHINED		TO BS 499 PART 2: 1988		DIMENSIONS UP TO 250 ± 0.20 DIMENSIONS FROM 250 TO 2500 ± 0.30 ANGLES ± 1: 600 STRAIGHTNESS/FLATNESS 1: 600			MACHINING BY OTHER SYSTEMS (WHERE APPLICABLE) HOLE POSITION ± 0.10 HOLE DIA ± 0.05 HOLE LENGTH ± 0.10 HOLE SQUARENESS ± 0.10		ANGLES: SCREW THREADS TO B.S. 3843 PART 2 MEDIUM FIT MACHINED DIA CONCENTRIC TO 0.1 FIR		FIRST ANGLE		A BROWN		4-8-82		ASSEMBLY OF TUBE TIES		SCALE: 1:1		TC1 226 ASSY	

GRUBB PARSONS NEWCASTLE UPON TYNE NE6 2YB
ASSEMBLY OF TUBE TIES
SCALE: 1:1
TC1 226 ASSY



NOTES
 1. FABRICATION IN ACCORDANCE WITH BS 5135:1974
 STRESS RELIEF IS REQUIRED
 2. GRIT BLAST & PAINT TO PURCHASE SPEC N°8

FINISH
 PAINT 4 BRACKETS HARD GLOSS 14-C31 PALE GREEN TO BS 4800.
 PAINT 4 BRACKETS HARD GLOSS 14-C39 DARK GREEN TO BS 4800.

FREEMAN FOX & PARTNERS
APPROVED
 No. TEL 226 03 Rev. B Date 20-9-1982 by fj

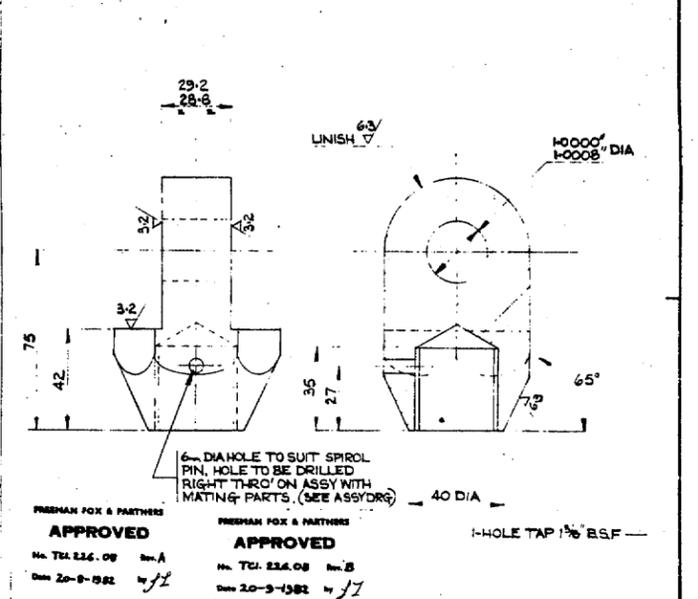
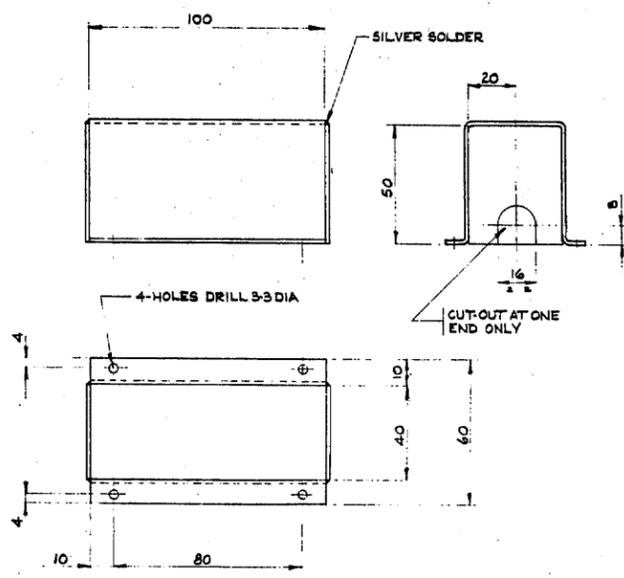
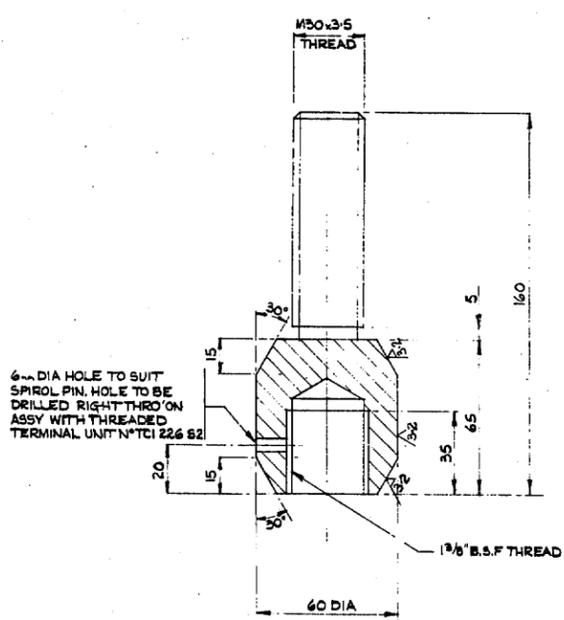
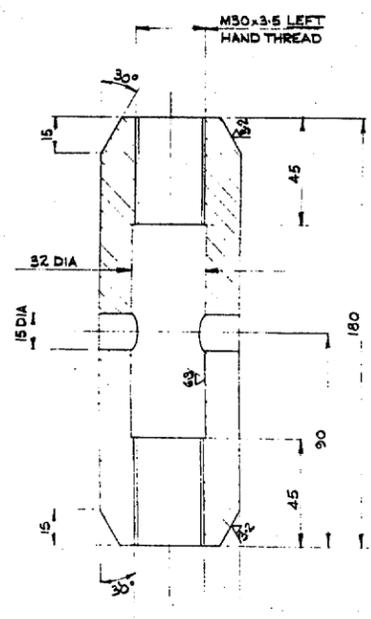
FREEMAN FOX & PARTNERS
APPROVED
 No. TEL 226 03 Rev. A Date 20-9-1982 by fj

DATE OF MOD MODIFIED BY	DATE OF MOD MODIFIED BY	FIRST MADE ORD No.	MATERIAL	UNIT No.	ISSUE
		118764	BS 4360 OR 43A STEEL		B
		FIRST ISSUE DATE	FINISH	SCALE	
		26-8-82	SEE ABOVE	1/1	
		COST ACCOUNT	PART No.	UNIT No.	
		226		TEL 226 03	
		TITLE			
		FRINGE BRACKET			
		WEIGHT	SCALE	UNIT No.	ISSUE
		1.85kg	1/1	TEL 226 03	B
		No. OFF PER SET			
		4			

FREEMAN FOX & PARTNERS
APPROVED
 No. TEL 226 03 Rev. A Date 20-9-1982 by fj

DATE OF MOD MODIFIED BY	DATE OF MOD MODIFIED BY	FIRST MADE ORD No.	MATERIAL	UNIT No.	ISSUE
		118764	STEEL BS 570 OR M40 (EN8)		A
		FIRST ISSUE DATE	FINISH	SCALE	
		26-8-82	SEE ABOVE	1/1	
		COST ACCOUNT	PART No.	UNIT No.	
		226		TEL 226 04	
		TITLE			
		SPIND			
		WEIGHT	SCALE	UNIT No.	ISSUE
		1.85kg	1/1	TEL 226 04	A
		No. OFF PER SET			
		4			

VIEW ON ARROW A'



FREEMAN FOX & PARTNERS
APPROVED
 No. TEL 226 05 Rev. A Date 20-9-1982 by fj

FREEMAN FOX & PARTNERS
APPROVED
 No. TEL 226 06 Rev. A Date 20-9-1982 by fj

FREEMAN FOX & PARTNERS
APPROVED
 No. TEL 226 07 Rev. A Date 20-9-1982 by fj

FREEMAN FOX & PARTNERS
APPROVED
 No. TEL 226 08 Rev. A Date 20-9-1982 by fj

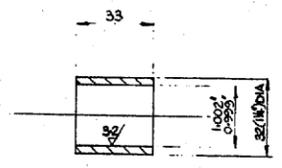
FREEMAN FOX & PARTNERS
APPROVED
 No. TEL 226 08 Rev. B Date 20-9-1982 by fj

DATE OF MOD MODIFIED BY	DATE OF MOD MODIFIED BY	FIRST MADE ORD No.	MATERIAL	UNIT No.	ISSUE
		118764	20 CARBON STEEL BRIGHT ENR		A
		FIRST ISSUE DATE	FINISH	SCALE	
		26-8-82	SEE ABOVE	1/1	
		COST ACCOUNT	PART No.	UNIT No.	
		226		TEL 226 05	
		TITLE			
		WARWICK NUT			
		WEIGHT	SCALE	UNIT No.	ISSUE
		2.05kg	1/1	TEL 226 05	A
		No. OFF PER SET			
		4			

DATE OF MOD MODIFIED BY	DATE OF MOD MODIFIED BY	FIRST MADE ORD No.	MATERIAL	UNIT No.	ISSUE
		118764	STEEL BS 570 OR M40 (EN8)		A
		FIRST ISSUE DATE	FINISH	SCALE	
		26-8-82	SEE ABOVE	1/1	
		COST ACCOUNT	PART No.	UNIT No.	
		226		TEL 226 06	
		TITLE			
		ADAPTOR			
		WEIGHT	SCALE	UNIT No.	ISSUE
		1.85kg	1/1	TEL 226 06	A
		No. OFF PER SET			
		4			

DATE OF MOD MODIFIED BY	DATE OF MOD MODIFIED BY	FIRST MADE ORD No.	MATERIAL	UNIT No.	ISSUE
		118764	1/2" DIA. N. STEEL FLAT		A
		FIRST ISSUE DATE	FINISH	SCALE	
		26-8-82	PRIME NAVY BLACK	1/1	
		COST ACCOUNT	PART No.	UNIT No.	
		226		TEL 226 07	
		TITLE			
		MICROSWITCH COVER			
		WEIGHT	SCALE	UNIT No.	ISSUE
		0.247kg	1/1	TEL 226 07	A
		No. OFF PER SET			
		4			

DATE OF MOD MODIFIED BY	DATE OF MOD MODIFIED BY	FIRST MADE ORD No.	MATERIAL	UNIT No.	ISSUE
		118764	2-1/4" A/F MEX BR		B
		FIRST ISSUE DATE	FINISH	SCALE	
		26-8-82	SEE ABOVE	1/1	
		COST ACCOUNT	PART No.	UNIT No.	
		226		TEL 226 08	
		TITLE			
		EYE NUT			
		WEIGHT	SCALE	UNIT No.	ISSUE
		1.0kg	1/1	TEL 226 08	B
		No. OFF PER SET			
		8			



PREMAN FOX & PARTNERS
APPROVED
 No. TCI.226.09 Part A
 Date 25-10-1982 by JZ

DATE OF BOD ISSUED BY	DATE OF BOD REVISION BY	PRICE BOOK ORD No.	18764	MATERIAL	SEAMLESS STEEL
		FIRST ISSUE DATE		FINISH	MECHANICAL
DATE OF BOD REVISION BY	DATE OF BOD REVISION BY	COST ACCOUNT	226	PART No.	
		TITLE	SLEEVE		
		WEIGHT	0.08kg	SCALE	1/1
		UNIT No.	TCI.226.09	ISSUE	A

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

A member of Clarke Chapman and Reynolds Parsons	SURFACE FINISH EQUIVALENTS UNCOATED 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 THIS DRAWING CONFORMS TO B.S. 308	SURFACE FINISH SYMBOLS ✓ DENOTES NOT NECESSARILY MACHINED ✓ DENOTES MACHINED	WELD SYMBOLS TO BS 499 PART 2 1969	FABRICATION TOLERANCES DIMENSIONS UP TO 250 ± 0.20 DIMENSIONS FROM 250 TO 2500 ± 0.30 ANGLES ± 1:800 STRAIGHTNESS/FLATNESS 1:800	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 UP TO 250 ± 0.10 DIMENSIONS FROM 250 TO 2500 ± 0.15 ANGLES ± 0.5 STRAIGHTNESS/FLATNESS ± 0.1	ALL DIMENSIONS ARE IN MILLIMETRES ANGLES - SCREW THREADS TO B.S. 3843 PART 2 MEDIUM FIT MACHINED TO CONFORM TO BS 3843 PART 2	PROJECTION 3rd ANGLE DRAWN A BROWN DATE 23-9-82	GRUBB PARSONS NEWCASTLE UPON TYNE NE8 2YS DETAIL FOR TUBE TIES SCALE	SHEET 1 OF 1
--	--	--	--	--	---	--	---	--	---	--------------