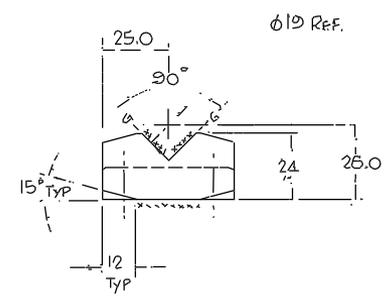
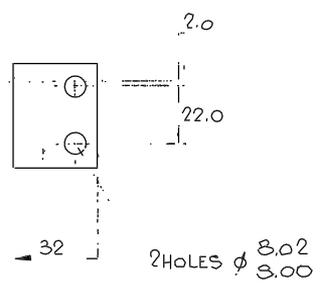
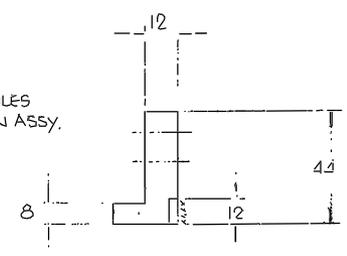
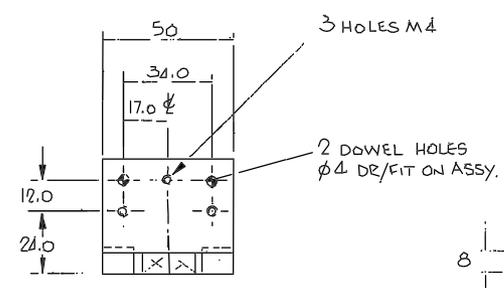
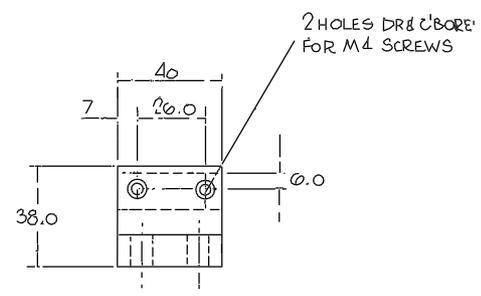
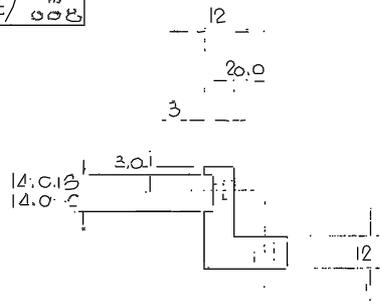
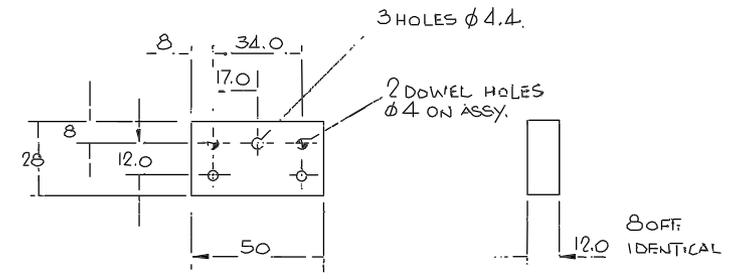
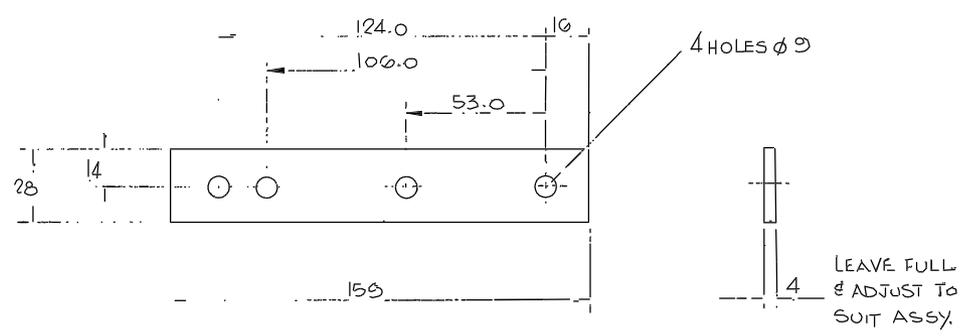


Drawing No. W/IE/005
To 008



| | | | |
|----------------------------|----------------------|---|--|
| 5 ROLLER PLATE | | | |
| MATERIAL ALUM ALLOY | SCALE 1/1 | TOLERANCES X ±0.1 XX ±0.05 XXX | |
| FINISH MATT BLK ANODISE | NO REQ PER UNIT I | DRAWING NO R.G.O. W/IE/005 | |
| G.A. No. | | | |

| | | | |
|------------------------|----------------------|---|--|
| 7 VEE LOCATOR | | | |
| MATERIAL CHDN. M.S. | SCALE 1/1 | TOLERANCES X ±0.1 XX ±0.05 XXX | |
| FINISH BLK | NO REQ PER UNIT 8 | DRAWING NO R.G.O. W/IE/007 | |
| G.A. No. | | | |



| | | | |
|----------------------------|----------------------|---|--|
| 6 PACKER | | | |
| MATERIAL ALUM ALLOY | SCALE 1/1 | TOLERANCES X ±0.1 XX ±0.05 XXX | |
| FINISH MATT BLK ANODISE | NO REQ PER UNIT I | DRAWING NO R.G.O. W/IE/006 | |
| G.A. No. | | | |

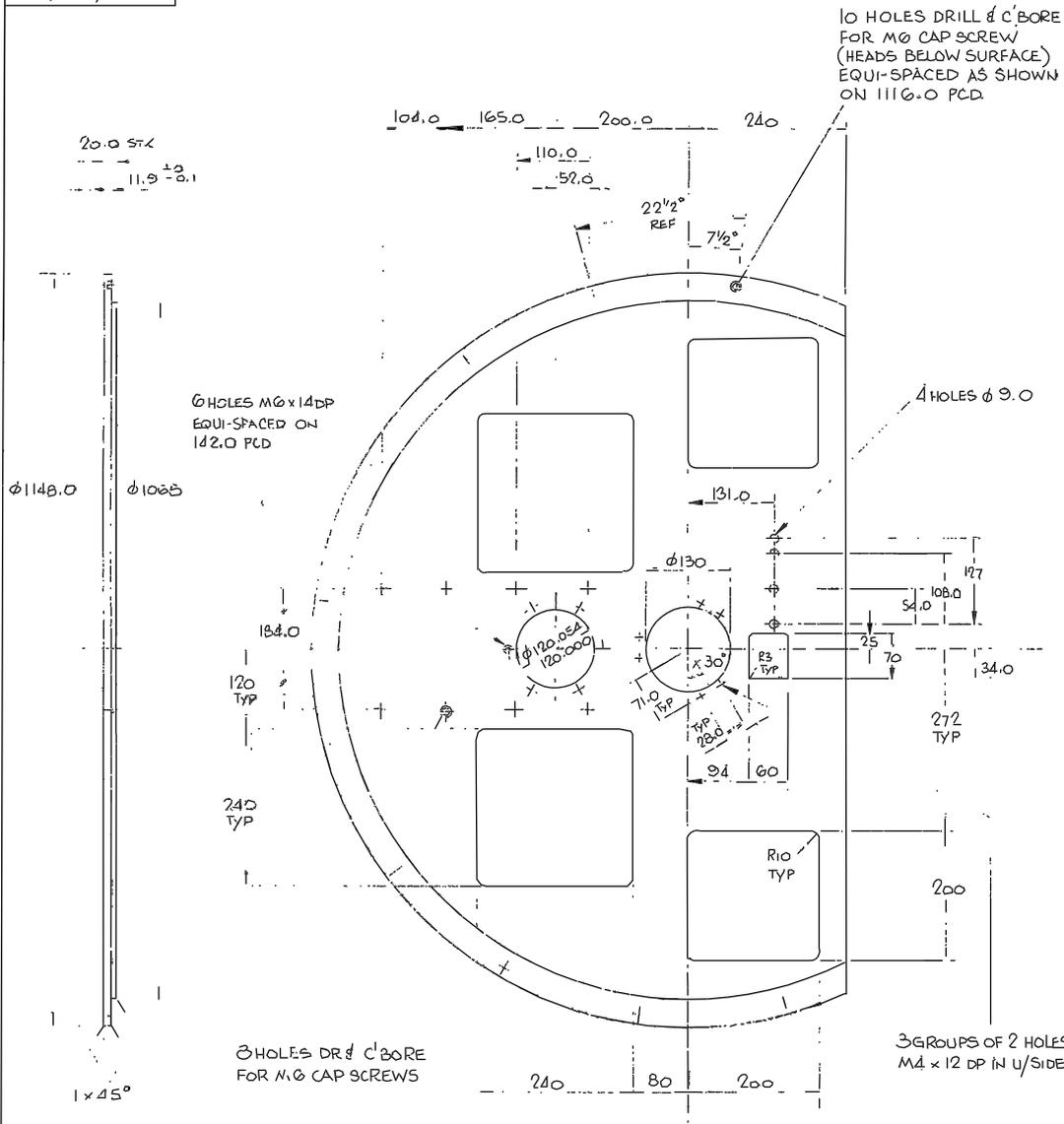
| | | | |
|----------------------------|----------------------|---|--|
| 8 PACKER | | | |
| MATERIAL ALUM ALLOY | SCALE 1/1 | TOLERANCES X ±0.1 XX ±0.05 XXX | |
| FINISH MATT BLK ANODISE | NO REQ PER UNIT 8 | DRAWING NO R.G.O. W/IE/008 | |
| G.A. No. | | | |

| | | | | | | | | | | | | |
|--------------------------------------|----------|------|----------|-----------|----------|------------------|----------|--------|------------------------|----------|--|--|
| Tolerances (unless otherwise stated) | | | | Material: | | Diameters in mm. | | Scale | THIRD ANGLE PROJECTION | | Title | |
| Issue | Mod. No. | Date | Drawn By | Issue | Mod. No. | Date | Drawn By | Finish | Dwg. No. | No. Req. | ROYAL GREENWICH OBSERVATORY, HERSTMONCEUX CASTLE, HAILSHAM SUSSEX. | |
| | | | | | | | | | | | DETAILS | |
| | | | | | | | | | | | G.A. No. Drawing No. W/IE/005 008 | |

| DRAWING NUMBER | No. of Sheets | G.A. Item No. | DRAWING TITLE OR COMPONENT NAME | No. off | MATERIAL STOCK OR ORDER No. AND DATE | REMARKS | ISSUE DATE | ISSUED TO | FINISH DATE |
|----------------|---------------|---------------|---------------------------------------|---------|--------------------------------------|----------|------------|-----------|-------------|
| W/IC/O31 | | 35 | FORK END | 1 | | | | | |
| / 1033 | | 36 | CYL. PLT | 1 | | | | | |
| / 1034 | | 37 | LEVER | 1 | | | | | |
| / 1035 | | 38 | WASHER | 2 | | | | | |
| / 1036 | | 39 | PIN | 1 | | | | | |
| / 1032 | | 40 | SHLDR SCREW | 1 | | | | | |
| / 1041 | 1 | 41 | BUSH | 1 | | | | | |
| / / | | | | | | | | | |
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| / / | | | | | | | | | |
| / / | | | | | | | | | |
| / / | | 50 | STEPPING MOTOR | 1 | | | | | |
| / / | | | SIGMA-20-3450 D 200 * F1-2 | | | | | | |
| / / | | 51 | COGNITE GEARHEAD | 1 | | | | | |
| / / | | | SA. 1000 - RATIO 10:1 | | | | | | |
| / / | | 52 | INCREMENTAL OPTICAL ENCODER | 1 | FENNY 9 GILDS | | | | |
| / / | | | MODEL IE 23/500 | | | | | | |
| / / | | 53 | COUPLING - RELIANCE - BCMZ5/10/12mm | 1 | | | | | |
| / / | | 54 | BALL SLIDE - RELIANCE - MA-1 | 1 | | | | | |
| / / | | 55 | TIMING BELT - FENNER - 322L x 13 WIDE | 1 | | | | | |
| / / | | 56 | " PULLEY " - 15L050 - 5/8 BORE | 1 | | 5-0 KERR | | | |
| / / | | 57 | " " " 60L050 | 1 | | | | | |
| / / | | 58 | TAPER LOCK BUSH - 1610 - D29G0020 | 1 | | | | | |
| / / | | 59 | BEARING - SKF - 7210 BG | 2 | | | | | |
| / / | | 60 | " " - 6304 - 2RS | 1 | | | | | |
| / / | | 61 | CAM FOLLOWERS - INA - KR19 | 3 | | | | | |
| / / | | 62 | SEALING RING - INA - G70 x 78 x 5 | 2 | | | | | |
| / / | | 63 | PROX. SWITCH - HETTICH - 001 TYPE | 2 | | | | | |
| / / | | 64 | AIR CYL - SMC - CJPB15 - 10DG - E | 1 | | | | | |
| / / | | 65 | CIRCLIP - ANDERTON - 1400 - 0 | 2 | | | | | |
| / / | | 66 | SPRING - LEE - LC - 043H * 14 | 1 | | | | | |
| / / | | 67 | SOL. VALVE - SMC - VZ110 - 5GS - M2F | 1 | | | | | |

| | | | |
|------------------------------------|----------------------|-----------|---------------|
| JOB TITLE | ASSY DRG. No. | SHEET No. | DRAWN BY |
| FILTEK WHEEL DRIVE & CONTROL ASSY. | VIE/000 | 2 OF 3 | PF 1/81 |
| ROYAL GREENWICH OBSERVATORY, | HERSTMONCEUX CASTLE, | HAILSHAM, | SUSSEX |
| | | | DATE APRIL 31 |

| DRAWING NUMBER | No. of Sheets | G.A. Item No. | DRAWING TITLE OR COMPONENT NAME | No. off | MATERIAL STOCK OR ORDER No. AND DATE | REMARKS | ISSUE DATE | ISSUED TO | FINISH DATE |
|------------------------------------|---------------|---------------|---------------------------------|---------|--------------------------------------|-----------|---------------|-----------|-------------|
| V/IE/000 | 1 | | GENERAL ASSY | - | | | | | |
| / / | | | | | | | | | |
| W/IE/001 | 1 | 1 | FILTER WHEEL | 1 | | | | | |
| W/IE/002 | 1 | 2 | BLOCK | 1 | | | | | |
| / /003 | | 3 | LEVER | 1 | | | | | |
| / /004 | | 4 | ROLLER BAR | 1 | | | | | |
| W/IE/005 | 1 | 5 | ROLLER PLATE | 1 | | | | | |
| / /006 | | 6 | PACKER | 1 | | | | | |
| / /007 | | 7 | VEE LOCATOR | 8 | | | | | |
| / /008 | | 8 | PACKER | 5 | | | | | |
| W/IE/009 | 1 | 9 | FILTER CELL | 8 | | | | | |
| / /010 | | 10 | CLAMP | 24 | | | | | |
| / /011 | | 11 | SPACER | 4 | | | | | |
| / /012 | | 12 | SPACER | 4 | | | | | |
| / /013 | | 13 | SUPPORT SCREW | 3 | | | | | |
| / /014 | | 14 | BLOCK | 3 | | | | | |
| / / | | | | | | | | | |
| / / | | | | | | | | | |
| W/IE/017 | | 17 | FILTER WHEEL SUPPORT PLATE | 1 | | | | | |
| / / | | | | | | | | | |
| / / | | | | | | | | | |
| W/IC/003 | 1 | 20 | MOUNTING PLATE | 1 | | | | | |
| / /004 | | 21 | " " | 1 | | | | | |
| / /005 | | 22 | " " | 1 | | | | | |
| / /009 | | 23 | WASHER | 1 | | | | | |
| W/IC/013 | 1 | 24 | SPINDLE | 1 | | | | | |
| / /014 | | 25 | SPACER | 2 | | | | | |
| W/IC/015 | 1 | 26 | SPECIAL WASHER | 1 | | | | | |
| / /016 | | 27 | BEARING PLT | 1 | | | | | |
| / /017 | | 28 | HOUSING | 1 | | | | | |
| / /018 | | 29 | SPINDLE | 1 | | | | | |
| / /019 | | 30 | SPGOT | 1 | | | | | |
| / /020 | | 31 | LOCKNUT | 1 | | | | | |
| W/IC/023 | 1 | 32 | FLAG | 2 | | | | | |
| / /024 | | 33 | SWITCH BRKT | 1 | | | | | |
| W/IC/030 | 1 | 34 | SPRING ROD | 1 | | | | | |
| JOB TITLE | | | | | ASSY DRG. No. | SHEET No. | DRAWN BY | | |
| FILTER WHEEL DRIVE & CONTROL ASSY. | | | | | V/IE/000 | 1 of 3 | PROMEC | | |
| ROYAL GREENWICH OBSERVATORY, | | | | | CASTLE, | HAILSHAM, | SUSSEX | | |
| | | | | | | | DATE APRIL 89 | | |

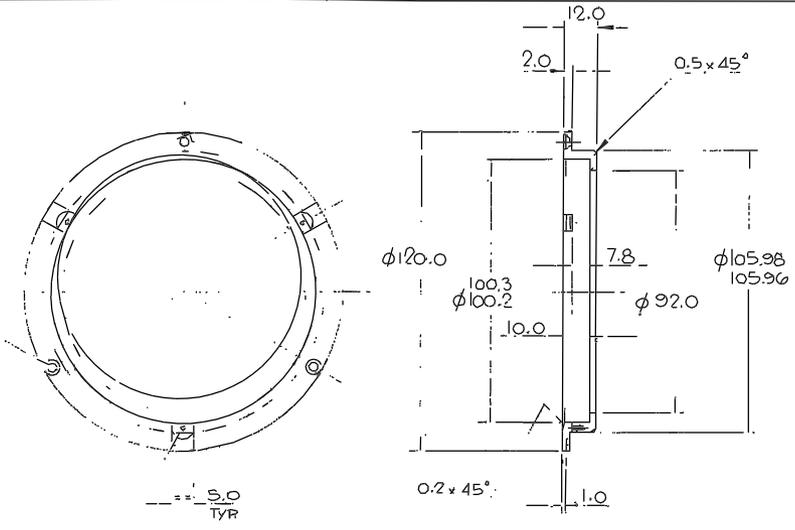


| | | |
|---|-------------------------|---|
| TITLE 17 FILTER WHEEL SUPPORT PLATE | | |
| MATERIAL ALCOA PLT | SCALE 1/4 | TOLERANCES x \pm 0.1 xx \pm 0.05 xxx |
| FINISH MATT BLK ANODISE | NO REQS PER UNIT () | xxx |
| DRAWN BY R.G.G. | DATE W/IE/017 | |

| | | | | | | | | | | | | | | | |
|--------------------------------------|----------|------|----------|-------|----------|----------|----------|--|----------|----------|--|------------------------|--|-------------------------|--|
| Tolerances (Unless otherwise stated) | | | | | | Material | | Dim in in. | | Scale | | THIRD ANGLE PROJECTION | | G.A. No. | |
| APR 89 PROMEC | | | | | | Final | | ROYAL GREENWICH OBSERVATORY, HERSTMONCEUX CASTLE, HAILSHAM SUSSEX. | | File | | DETAILS | | Drawing No. W/IE/017 | |
| Issue | Mod. No. | Date | Drawn By | Issue | Mod. No. | Date | Drawn By | Used on | Dwg. No. | Nr. Req. | | | | | |

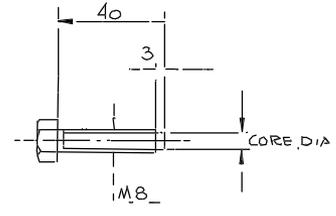
Drawing No. 109
W/IE/ TO 014

3 HOLES DR & CSK FOR M2.5 SCREW EQUI-SPACED ON 112.0 P.C.D.



3 HOLES M2 x 5 DP & Ø 8.0 x DEPTH SHOWN. EQUI-SPACED ON 103.1 P.C.D.

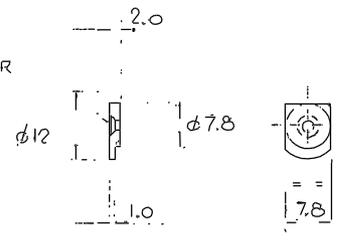
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|--|-----------------------------------|------------------------------------|--|
| 9 FILTER WELL | | | |
| MATERIAL ALUM ⁹ ALLOY | SCALE 1/1 | TOLERANCES x ± 0.1 xx ± 0.05 | |
| FINISH MAT ⁹ BLK ANODISE | NO REQ ⁹ PER UNIT 8 | xxx | |
| DRAWING No. R.G.O. W/IE/009 | | | |



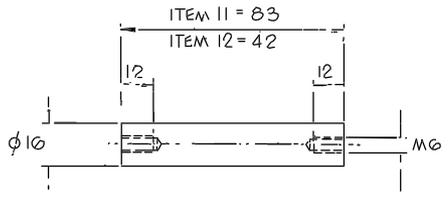
MODIFY STK SCREW -

| | | | |
|--------------------------------------|------------------------------------|------------------------------------|--|
| 13 SUPPORT SCREW | | | |
| MATERIAL ST. STEEL | SCALE 1/1 | TOLERANCES x ± 0.1 xx ± 0.05 | |
| FINISH BLK NICKEL P ¹³ | NO REQ ¹³ PER UNIT 3 | xxx | |
| DRAWING No. R.G.O. W/IE/013 | | | |

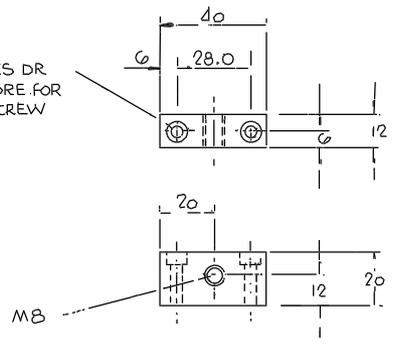
DR & CSK FOR M2 SCREW.



IDENTICAL 4 OFF EACH



2 HOLES DR & C'BORE FOR M4 SCREW



| | | | |
|---|-------------------------------------|------------------------------------|--|
| 10 CLAMP | | | |
| MATERIAL ALUM ¹⁰ ALLOY | SCALE 2/1 | TOLERANCES x ± 0.1 xx ± 0.05 | |
| FINISH MAT ¹⁰ BLK ANODISE | NO REQ ¹⁰ PER UNIT 24 | xxx | |
| DRAWING No. R.G.O. W/IE/010 | | | |

| | | | |
|---|---|------------------------------------|--|
| 11 12 SPACER | | | |
| MATERIAL ALUM ¹¹ ALLOY | SCALE 1/1 | TOLERANCES x ± 0.1 xx ± 0.05 | |
| FINISH MAT ¹¹ BLK ANODISE | NO REQ ¹¹ PER UNIT 4 OFF EACH | xxx | |
| DRAWING No. R.G.O. W/IE/011 & 012 | | | |

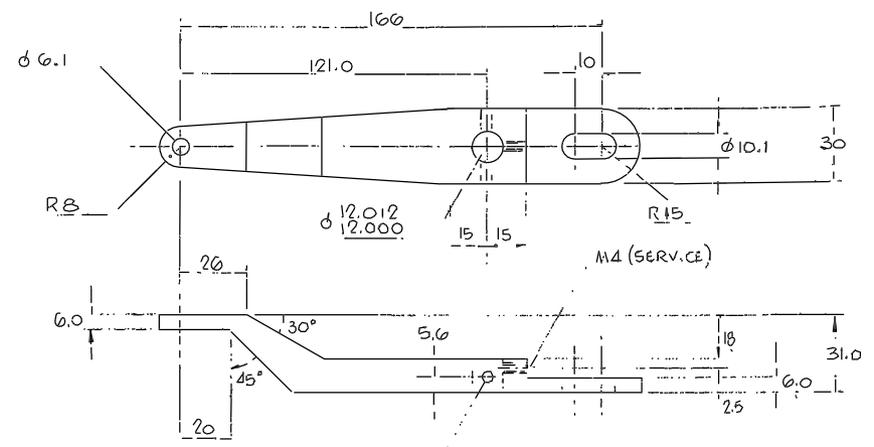
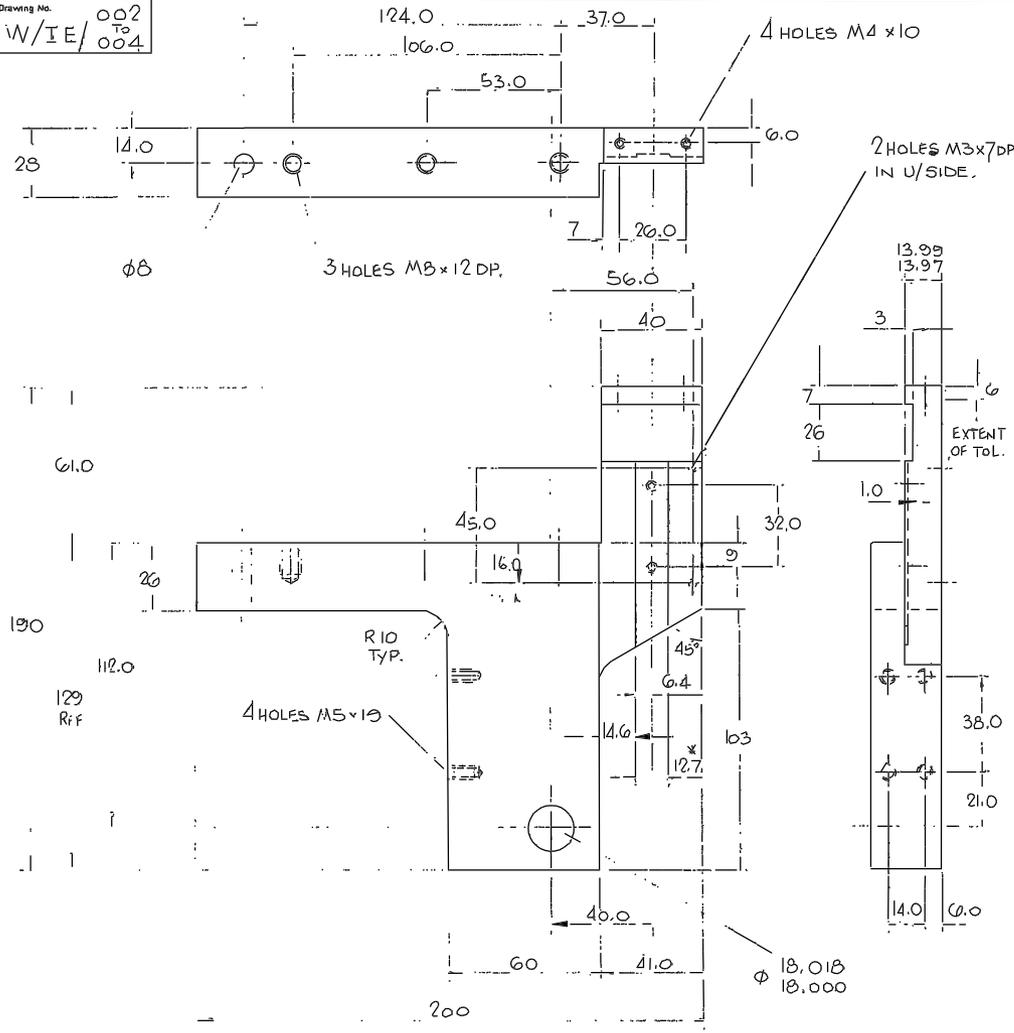
| | | | |
|---|--|------------------------------------|--|
| 14 BLOCK | | | |
| MATERIAL ALUM ¹⁴ ALLOY | SCALE 1/1 | TOLERANCES x ± 0.1 xx ± 0.05 | |
| FINISH MAT ¹⁴ BLK ANODISE | NO REQ ¹⁴ PER UNIT 3 OFF | xxx | |
| DRAWING No. R.G.O. W/IE/014 | | | |

| | | | |
|--------------------|-------------------------------|------------|--|
| TITLE | | | |
| MATERIAL | SCALE | TOLERANCES | |
| FINISH | NO REQ ¹⁴ PER UNIT | xxx | |
| DRAWING No. R.G.O. | | | |

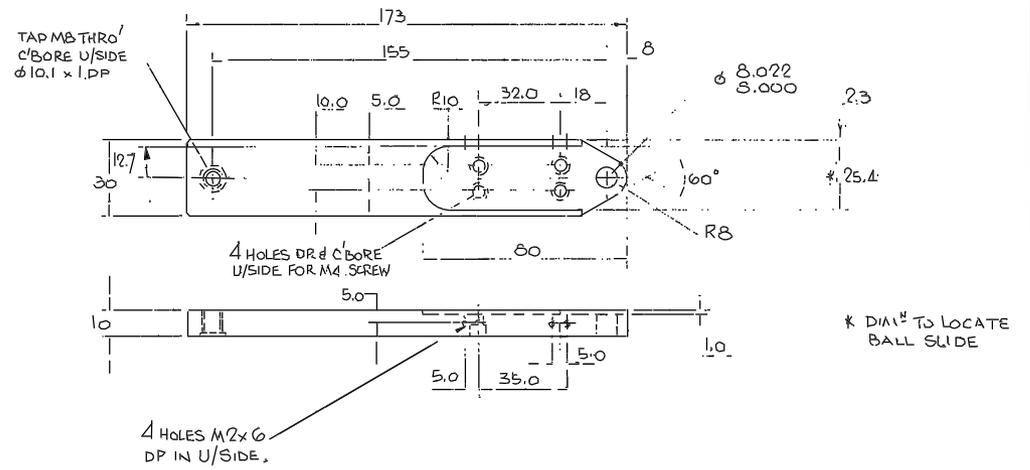
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|--------------------------------------|--|--|--|--|--|--|--|--|--|------------------------------|--|-----------------------------|--|---------|--|------------------------|--|------------|--|
| Tolerances (Unless otherwise stated) | | | | | | | | | | Material: | | Dim's in m.m. | | Scale | | THIRD ANGLE PROJECTION | | I.S.A. No. | |
| x ± 0.1 | | | | | | | | | | Finish | | ROYAL GREENWICH OBSERVATORY | | Title | | Drawing No. | | 009 | |
| xx ± 0.05 | | | | | | | | | | | | HERSTMONCEUX CASTLE, | | DETAILS | | W/IE/ | | TO | |
| xxx | | | | | | | | | | | | HAILSHAM | | SUSSEX. | | 014 | | | |
| Issue Mod. No. Date Drawn By | | | | | | | | | | Issue Mod. No. Date Drawn By | | Used on | | | | | | | |

| DRAWING NUMBER | No. of Sheets | G.A. Item No. | DRAWING TITLE OR COMPONENT NAME | No. of | MATERIAL STOCK OR ORDER No. AND DATE | REMARKS | ISSUE DATE | ISSUED TO | FINISH DATE |
|----------------|---------------|---------------|-------------------------------------|--------|--------------------------------------|---------|------------|-----------|-------------|
| / / | | 68 | KEY STEEL 6x6 x 24-RAD. BOTH ENDS | 1 | | | | | |
| / / | | 69 | " " 3/16" x 3/16" x 19-RAD. ONE END | 1 | | | | | |
| / / | | | | | | | | | |
| / / | | | | | | | | | |
| / / | | | | | | | | | |
| / / | | | | | | | | | |
| / / | | | | | | | | | |
| / / | | 70 | Soc HD CAP SCREW M12 x 6 | 4 | ST. STEEL | | | | |
| / / | | 77 | " " M3 x 6 | 2 | " | | | | |
| / / | | 78 | " " M4 x 30 | 6 | " | | | | |
| / / | | 79 | " " M4 x 10 | 6 | " | | | | |
| / / | | 80 | " " M4 x 12 | 8 | " | | | | |
| / / | | 81 | " " M6 x 25 | 8 | " | | | | |
| / / | | 82 | " " M5 x 12 | 8 | " | | | | |
| / / | | 83 | " " M6 x 20 | 6 | " | | | | |
| / / | | 84 | " " M6 x 12 | 8 | " | | | | |
| / / | | 85 | " " M8 x 40 | 3 | " | | | | |
| / / | | 86 | CSK HD SCREW M2.5 x 6 | 24 | " | | | | |
| / / | | 87 | " " M2 x 6 | 24 | " | | | | |
| / / | | 88 | " " M6 x 20 | 6 | " | | | | |
| / / | | 89 | " " M1.6 x 6 | 2 | " | | | | |
| / / | | 90 | HEX HD SCREW M4 x 12 | 1 | " | | | | |
| / / | | 91 | " " M4 x 16 | 3 | " | | | | |
| / / | | 92 | " " M5 x 40 | 4 | " | | | | |
| / / | | 93 | " " M8 x 12 | 1 | " | | | | |
| / / | | 94 | HEX NUT M6 | 2 | " | | | | |
| / / | | 95 | HEX NUT M3 | 6 | " | | | | |
| / / | | 96 | " " M10 | 1 | " | | | | |
| / / | | 97 | WASHER Ø 8 | 6 | " | | | | |
| / / | | 98 | " " Ø 10 | 1 | " | | | | |
| / / | | | | | | | | | |
| / / | | | | | | | | | |
| / / | | | | | | | | | |
| / / | | 102 | DOWEL Ø 5 x 30 | 2 | " | | | | |

Drawing No. 002
W/IE/004



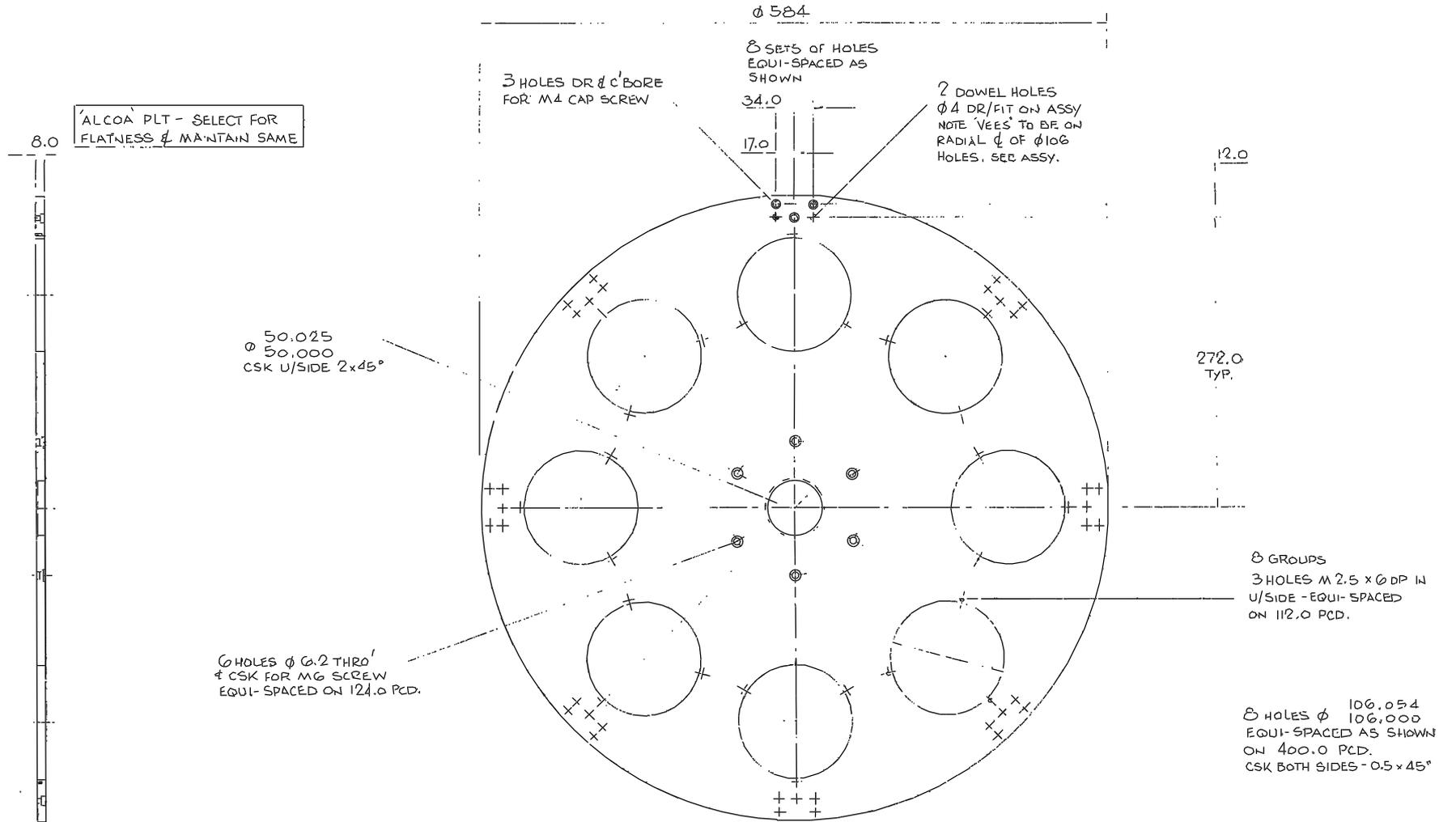
| | | | |
|------------------|--|------------|--|
| 3 | | TITLE | |
| AL ALLOY | | LEVER | |
| MATT BLK ANODISE | | SCALE 1/1 | |
| G.A. No. | | TOLERANCES | |
| R.G.O. W/IE/003 | | X ±0.1 | |
| | | XX ±0.05 | |
| | | XXX | |



| | | | |
|------------------|--|------------|--|
| 2 | | TITLE | |
| AL ALLOY | | BLOCK | |
| MATT BLK ANODISE | | SCALE 1/1 | |
| G.A. No. | | TOLERANCES | |
| R.G.O. W/IE/002 | | X ±0.1 | |
| | | XX ±0.05 | |
| | | XXX | |

| | | | |
|------------------|--|------------|--|
| 4 | | TITLE | |
| AL ALLOY | | ROLLER BAR | |
| MATT BLK ANODISE | | SCALE 1/1 | |
| G.A. No. | | TOLERANCES | |
| R.G.O. W/IE/004 | | X ±0.1 | |
| | | XX ±0.05 | |
| | | XXX | |

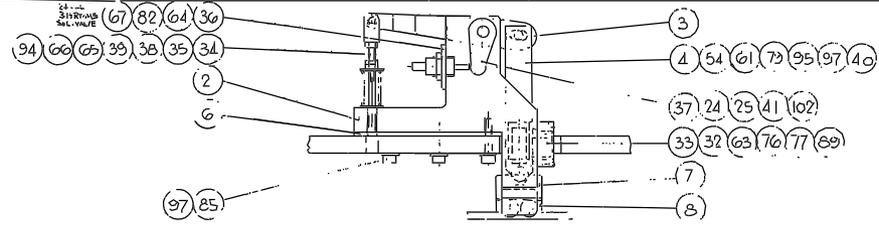
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|-------------------------------------|--|--|--|--|---|--|--|--|--|------------------------|--|--|--|--|----------|--|--|--|--|
| THIRD ANGLE PROJECTION | | | | | | | | | | | | | | | | | | | |
| Material: | | | | | Dimms in mm | | | | | Scale | | | | | Title | | | | |
| Finish | | | | | ROYAL GREENWICH OBSERVATORY, HERSTMONCEUX CASTLE HAILSHAM | | | | | THIRD ANGLE PROJECTION | | | | | DETAILS | | | | |
| Tolerance (Unless otherwise stated) | | | | | No. Req. | | | | | Drawing No. | | | | | G.A. No. | | | | |
| X ± | | | | | 002 | | | | | W/IE/004 | | | | | 002 | | | | |
| XX ± | | | | | 004 | | | | | 004 | | | | | 004 | | | | |
| XXX ± | | | | | 004 | | | | | 004 | | | | | 004 | | | | |



| | | |
|----------------------------|--------------------------------|---------------------------|
| TITLE 1 FILTER WHEEL | | |
| MATERIAL ALUMINUM ALLOY | SCALE 1/2 | TOLERANCES x ± 0.1 |
| FINISH MATT BLK ANODISE | NO REQ. PER UNIT 1 | x.x ± 0.05 |
| D.A. No. | DRAWING No. R.G.O. W/IE/001 | |

ALCOA PLATE-

| | | | | | | | | | | | | | | | | |
|--------------------------------------|----------|------|----------|-------|----------|------|----------|--|------------------------------|--|--|--|------------------------|--|-------------------------|--|
| Tolerances (Unless otherwise stated) | | | | | | | Material | | Diming in m.m. | | Scale 1/2 | | THIRD ANGLE PROJECTION | | G.A. No. | |
| x \pm x.x \pm x.xx \pm | | | | | | | Finish | | Drg. No. No. Req. Used on | | ROYAL GREENWICH OBSERVATORY, HERSTMONCEUX CASTLE, HAILSHAM SUSSEX. | | Title DETAIL | | Drawing No. W/IE/001 | |
| Issue | Mod. No. | Date | Drawn By | ISSUE | Mod. No. | Date | Drawn By | | | | | | | | | |

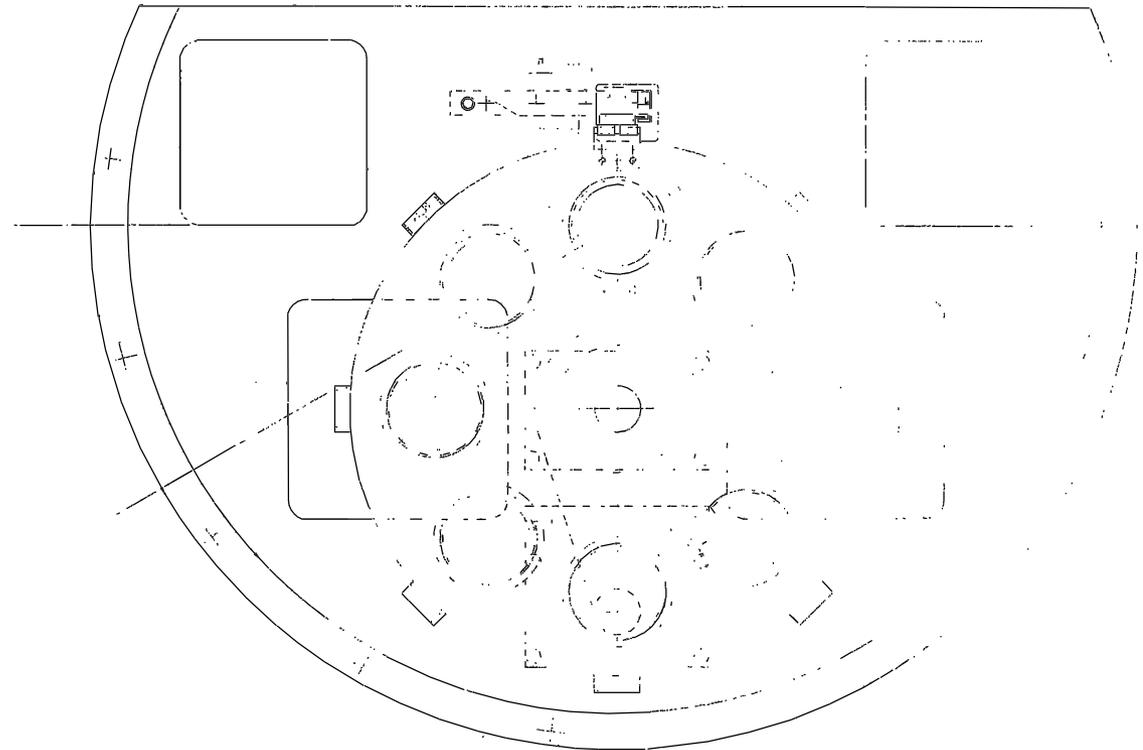
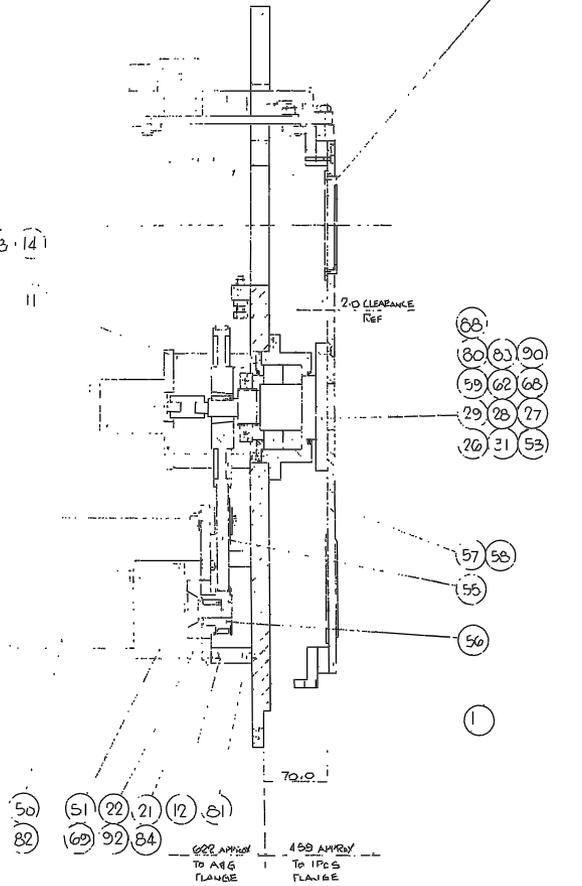


(17) (9) (80)

FROM BACK SIDE OF PAGE

(10) (87)
(9) (86)

(25) (78) (13) (14)



NOTE: VIEW LOOKING UP.

| | | | | | | | | | | | | |
|-------|----------|-------|----------|----------|----------|----------|----------|--|-----------|--|--|-------------|
| | | | | APRIL 89 | ii | Material | | Drawn in m.m. | Scale 1/2 | THIRD ANGLE PROJECTION | | U.S. No. |
| | | | | 15/13/19 | ii | Finish | | ROYAL GREENWICH OBSERVATORY, HERSTMONCEUX CASTLE, HAILSHAM | | Title FILTER WHEEL DRIVE & CONTROL ASSY. | | Drawing No. |
| Issue | Mat. No. | Ultr. | Drawn By | Issue | Mat. No. | Date | Drawn By | U.S. No. | | | | V/IE/000 |