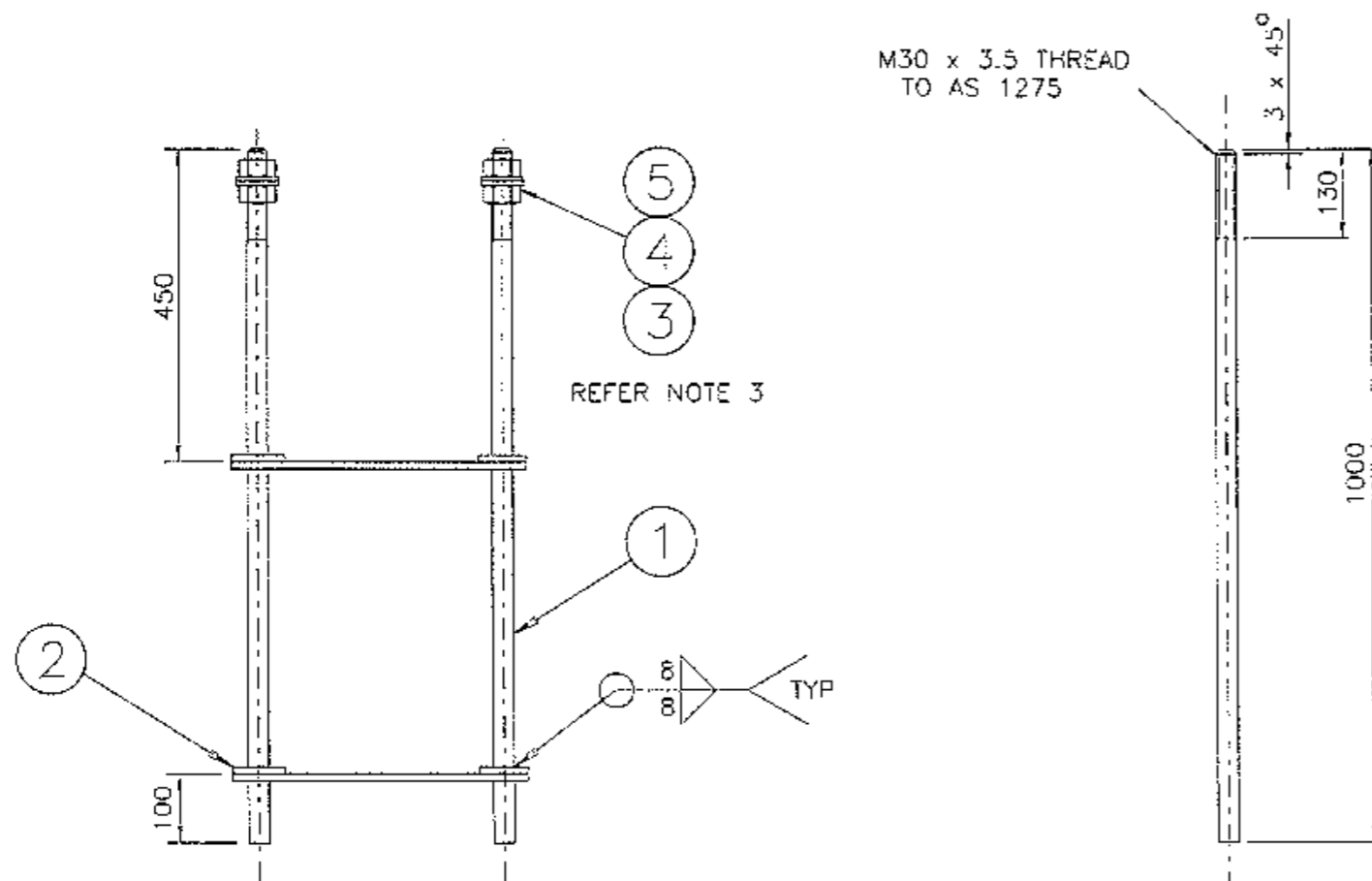


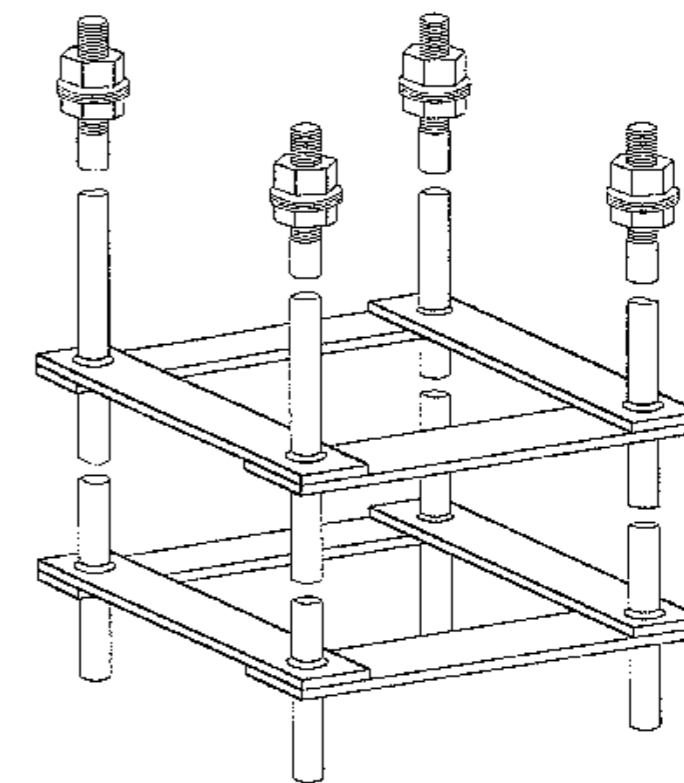
**DRAWINGS LISTED IN SPECIFICATION SI/TCS/8 Revision 1 – APPENDIX B**

The following drawings have been referred to in the Specification. The drawing issues referred to below were current as at August 2018.

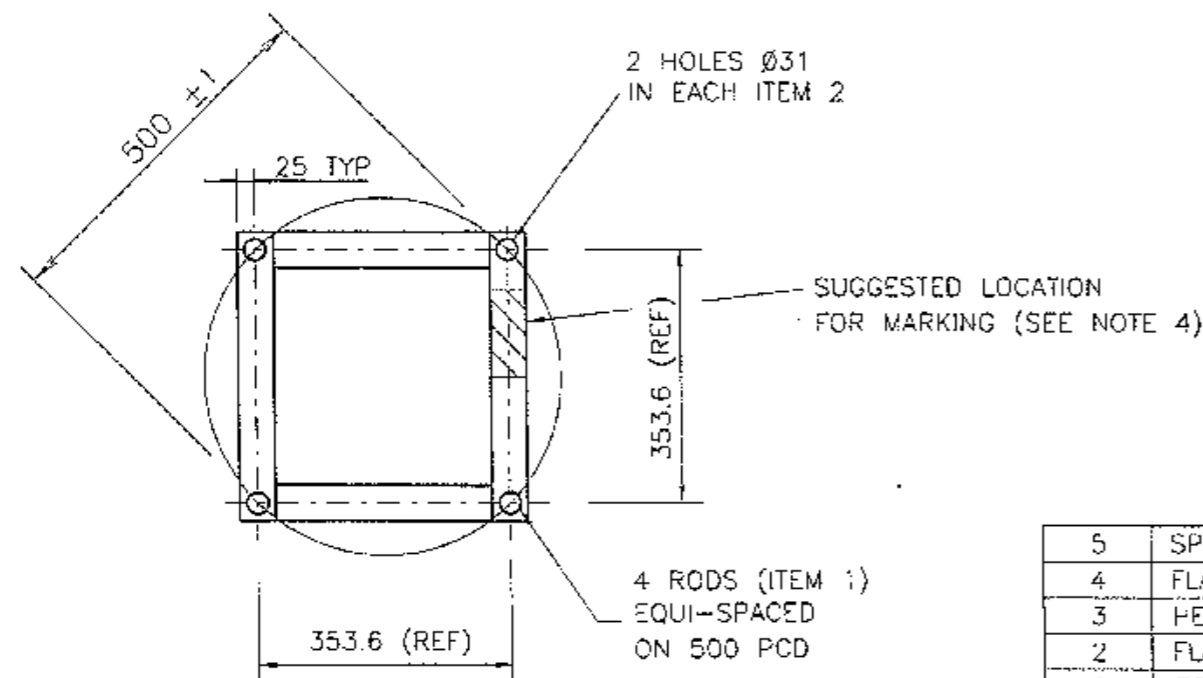
Drawing No.	Issue	Description	Drawing No.	Issue	Description
VC002-38	L	Holding-down bolt details for type 5 and type 9 mast arms and type 6 post	VM202-26	C	Adaptor stool for type 7 & 8 posts on a type 2 footing
VC002-50	E	Holding-down bolt assembly for type 2 post	VM203-26	F	Type 4 mast arm; mechanical details
VC002-56	E	Holding-down bolt assembly for ground-mounted controller	VM206-13	F	Target board mounting bracket
VC002-60	E	Holding-down bolt assembly for type 7 & 8 posts	VM206-14	U	Target board details for 200 mm signal lantern
VC002-67	B	Holding-down bolt assembly for type 13 push button post	VM206-21	M	Target board details for 300 mm signal lantern
VE500-10	I	Underground fuse box assembly for traffic signals	VM208-29	M	Closed visor type B for 200 mm signal lantern
VM007-2	W	Pole mounting fuse box	VM208-31	K	Open visor type A for 200 mm signal lantern
VM012-7	P	Straps for mounting traffic signal lanterns	VM208-39	H	Blanking-out disc for 200 & 300 mm signal lanterns
VM012-8	C	Adjustable "Z" bracket for 200 mm lanterns	VM208-43	G	Closed visor type B for 300 mm signal lantern
VM012-12	C	Fixed "Z" bracket for 200 mm lanterns	VM208-44	F	Open visor Type A for 300 mm signal lantern
VM012-13	B	Fixed "Z" bracket for 300 mm lanterns	VM208-45	C	Louvre for 200 mm signal lantern
VM012-14	A	Tee-bar strap for dual 200 mm lanterns	VM211-22	K	Type 5 mast arm: mast column mechanical details
VM012-15	A	Tee-bar strap for dual 300 mm lanterns	VM211-23	D	Type 5 mast arm: outreach 5L mechanical details
VM015-21	L	Assembly details of terminal box on wooden poles	VM211-24	D	Type 5 mast arm: outreach 5S mechanical details
VM015-22	M	Assembly details of terminal box for mast arms and type 6 post	VM211-28	C	Type 5 mast arm: mechanical details of outreach 5XL (5.5 m) for use in region A only
VM015-41	B	Mechanical details of terminal box for a type 8 post	VM212-1	U	Type 6 post - mechanical and assembly details
VM015-42	C	Assembly details of terminal box for a type 8 post	VM213-1	L	Finial cap for traffic signal post top assemblies
VM016-10	F	Pavement junction box casting; small type	VM213-2	K	Split finial cap for traffic signal post top assemblies
VM016-11	B	Pavement junction box casting; large type	VM215-2	G	Type 9 mast arm: mast column mechanical details
VM016-12	A	Pavement junction box casting; extra large type	VM215-3	F	Type 9 mast arm: outreach arm mechanical details
VM041-32	K	Pedestrian push-button assembly direction arrow/transducer disc	VM215-4	F	Type 9 mast arm: mechanical details of upper lantern support to suit 300mm lanterns on mast arms and multifunction poles
VM052-5	H	Mechanical and assembly details of support cradle and securing bracket for underground fuse box	VM215-5	C	Mechanical details of identification plate for type 9 and 10/11 mast arms
VM200-10	H	Lantern mounting bracket for wooden poles	VM215-6	D	Mechanical details of upper lantern support to suit 200mm lanterns on mast arms and multifunction poles
VM200-14	V	Traffic signal lower mounting bracket	VM416-2	A	Danger label for traffic signal supply cable
VM200-15	AF	Traffic signal post top assembly	VM418-1	H	Traffic signal out-of-service lantern cover (yellow)
VM200-24	E	Standard lock washer for lantern mounting strap and lower mounting bracket	VM418-3	C	Traffic signal out-of-service lantern cover (black)
VM200-29	A	Special lock washer for T-bar assemblies for dual lanterns	VM620-19	B	Engraved plate for emergency signal control switch
VM202-1	X	Type 2 post - mechanical details	VT006-51	B	Single mounting bracket (small) for 450 mm high special stop sign
VM202-10	C	Adaptor plate for a type 2 post on a type 5 mast arm or a type 6 post footing	VT006-52	B	Single mounting bracket (large) for 600 mm - 900 mm high sign
VM202-15	C	Type 7 post mechanical details	VT006-53	B	Double mounting bracket (small) for small sign
VM202-16	E	Bracket for 0.35m offset of a type 2 post	VT006-54	B	Double mounting bracket (medium) for 900 mm high NRT sign
VM202-17	E	Bracket for 0.7m offset of a type 2 post	VT006-55	B	Double mounting bracket (large) for large NRT sign
VM202-20	C	Type 13 push button post; mechanical details	VT006-56	A	Vertical saddle bracket (small) for 450 mm high special stop sign
VM202-21	B	Adaptor plate for type 7, 8 & 13 posts on a type 2 footing	VT006-57	A	Vertical saddle bracket (large) for 600 mm - 900 mm high sign
VM202-25	A	Mechanical and assembly details of the type 8 post	VT006-58	A	Horizontal saddle bracket for all signs
			VT006-61	A	Single end mounting bracket for special stop sign



ITEM 1



DIMETRIC VIEW



NOTES

1. ALL WELDING SHALL BE IN ACCORDANCE WITH AS 1554 PART 1.
2. AFTER WELDING, ITEMS 1 & 2 TO BE HOT DIP GALVANISED IN ACCORDANCE WITH AS 1650 AND THREADED ENDS OF ITEM 1 IN ACCORDANCE WITH AS 1214.
3. ITEMS 3, 4 & 5 SHALL BE SUPPLIED & FITTED (AS SHOWN) BY THE MANUFACTURER.
4. MANUFACTURER'S IDENTIFICATION & DATE OF MANUFACTURE TO BE LEGIBLY AND DURABLY MARKED.
5. THE GALVANISING SURFACE SHALL BE FREE FROM SHARP PROJECTIONS, DROSS & DAGS.
6. TOLERANCE ON DIMENSIONS (EXCEPT WHERE OTHERWISE STATED):
  - UP TO AND INCLUDING 50 TO BE ±1
  - OVER 50 & UP TO AND INCLUDING 500 TO BE ±2
  - OVER 500 TO BE ±4

ALL DIMENSIONS IN MILLIMETRES

ITEM	DESCRIPTION	MATERIAL	FINISH	QTY	REMARKS
5	SPRING WASHER Ø30 TO AS 1937	MILD STEEL	GALV TO AS 4680	4	REFER TO NOTE 3
4	FLAT WASHER Ø30 LARGE SERIES TO AS 1237	MILD STEEL	GALV TO AS 4680	8	REFER TO NOTE 3
3	HEX NUT M30 TO AS 1112	MILD STEEL	GALV TO AS 1214	8	REFER TO NOTE 3
2	FLAT BAR 50 x 10 TO AS 3679	MILD STEEL	GALV TO AS 4680	4	REFER NOTES 1 & 2
1	ROD Ø30 TO AS 3679	MILD STEEL	GALV TO AS 4680	4	REFER NOTES 1 & 2



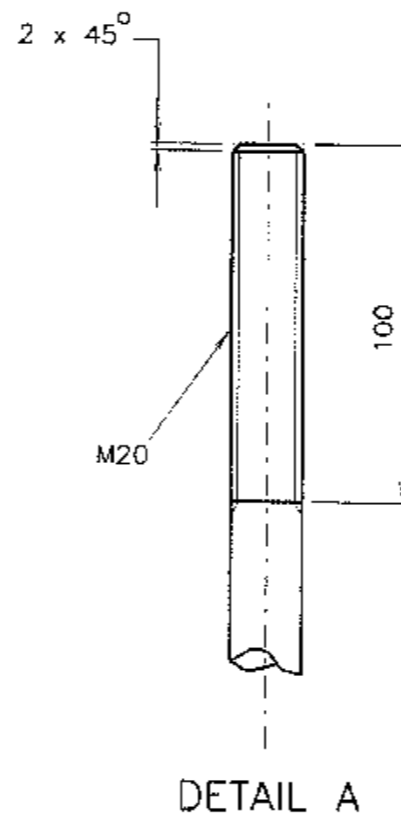
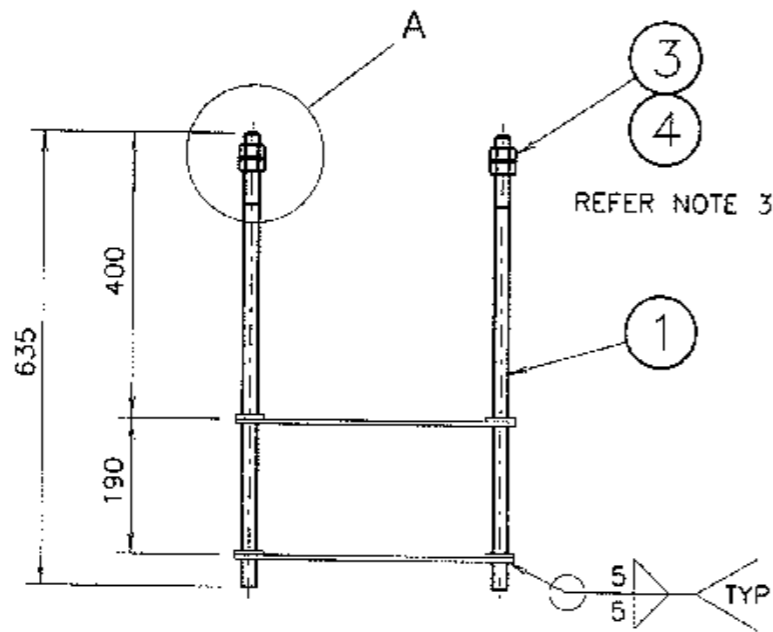
1' ISSUE 19-04-95  
 FC2346/TC2699 PLAN  
 REDRAWN. TYP ADDED  
 ON WELDING SYMBOLS  
 AND B FILLET WAS  
 SHOWN ON BOTH  
 SIDES. NOTE 6 ADDED.  
 EB RVC BWT  
 2' ISSUE 09-11-98  
 J/T TC2716 ITEM 4  
 NOW LARGE SERIES  
 RVC BWT  
 K ISSUE 1999-05-13  
 J/A TC29/2  
 ITEM 4 QTY WAS 4.  
 ADDED ITEM 5.  
 ADDED TYPE 9 MA  
 TO TITLE. ITEM 1  
 THREAD WAS 100 LG.  
 BWT  
 L ISSUE:  
 ITEM 2 WAS CROSS  
 BRACED.  
 F.P. 23.02.09 BWT

REFERENCE DRAWINGS	
FOOTINGS	VC002-52
SUPPLY CATALOGUE NO 18234157	

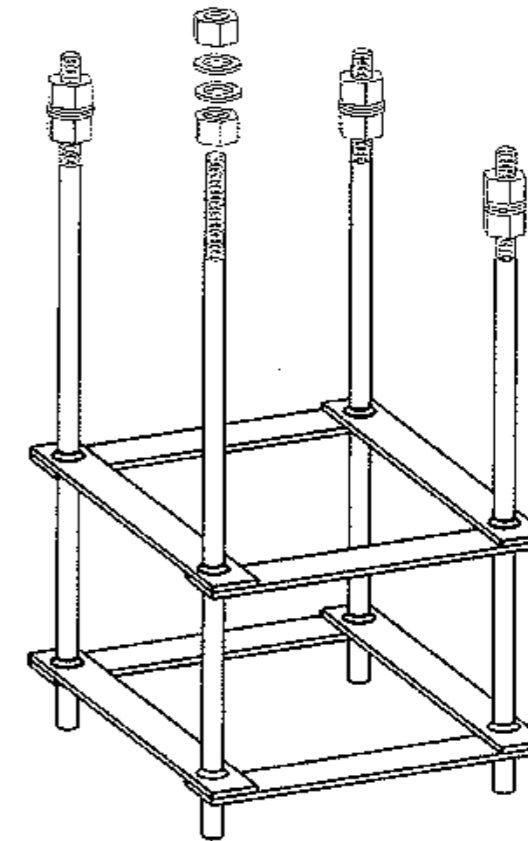
ROADS AND TRAFFIC AUTHORITY OF NSW  
 TRAFFIC SIGNALS  
**HOLDING DOWN BOLT DETAILS  
 FOR TYPE 5 & 9 MAST ARMS  
 AND TYPE 6 POST**

SCALE 1 : 10	
SUPERSEDES: ISSUE 4	
DRAWN IA	
CHECKED RB	
PASSED B TAYLOR 21-11-84	

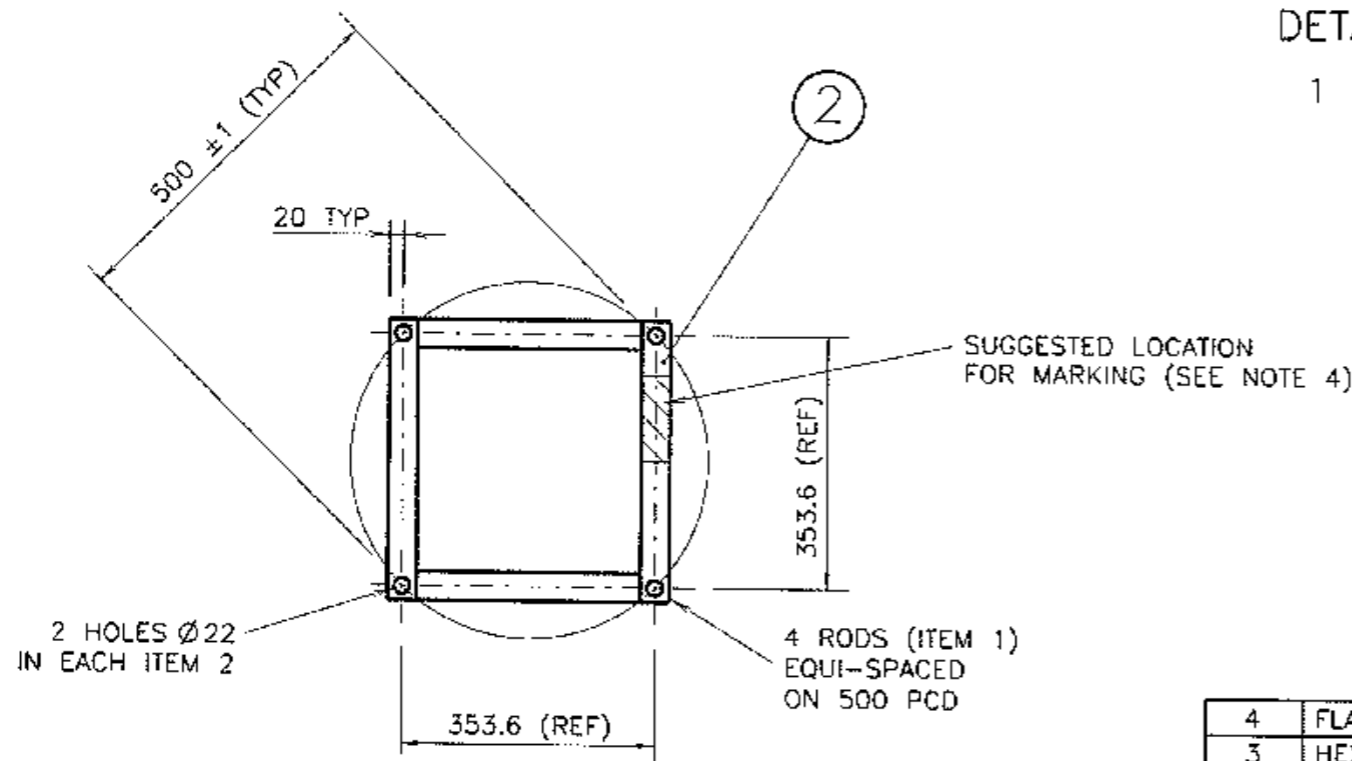
APPROVED: 22-11-1984 F HULSCHER MANAGER EQUIPMENT & STDS
ISSUE <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<b>VC002-38</b>



DETAIL A  
1 : 2



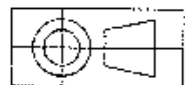
DIMETRIC VIEW



NOTES

1. ALL WELDING SHALL BE IN ACCORDANCE WITH AS/NZS 1554 PART 1.
2. AFTER WELDING, ITEMS 1 & 2 TO BE HOT DIP GALVANISED IN ACCORDANCE WITH AS/NZS 4680 & THREADED ENDS OF ITEM 1 IN ACCORDANCE WITH AS 1214.
3. ITEMS 3 & 4 SHALL BE SUPPLIED & FITTED (AS SHOWN) BY THE MANUFACTURER.
4. MANUFACTURERS IDENTIFICATION & DATE OF MANUFACTURE TO BE MARKED CLEARLY, INDELIBLY & WATERPROOF.
5. THE GALVANISING SURFACE SHALL BE FREE FROM SHARP PROJECTIONS, DROSS AND DAGS.
6. TOLERANCE: ±2mm UNLESS OTHERWISE INDICATED.

ITEM	DESCRIPTION	MATERIAL	FINISH	QTY
4	FLAT WASHER M20 LARGE SERIES TO AS 1237	MILD STEEL	GALVANISED TO AS/NZS 4680	8
3	HEX NUT M20 TO AS/NZS 1112	MILD STEEL	GALVANISED TO AS/NZS 1214	8
2	FLAT BAR 40 X 6 TO AS/NZS 3679	MILD STEEL	GALVANISED TO AS/NZS 4680	4
1	ROD Ø20 STEEL ROUND TO AS/NZS 3679	MILD STEEL	GALVANISED TO AS/NZS 4680	4



DIMENSIONS ARE IN MILLIMETRES

C ISSUE 08-12-99  
J/1 TC2390 PLAN  
REDRAWN, WASHER  
(ITEM 4) IS NOW  
LARGE SERIES.  
QUANTITY WAS 4.  
NOTE 5 ADDED.  
RVC BWT

D ISSUE.  
ITEM 2 WAS CROSS  
BRACED.  
F.P. 19.02.09 BWT

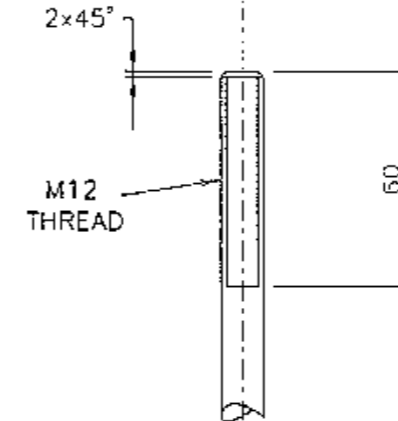
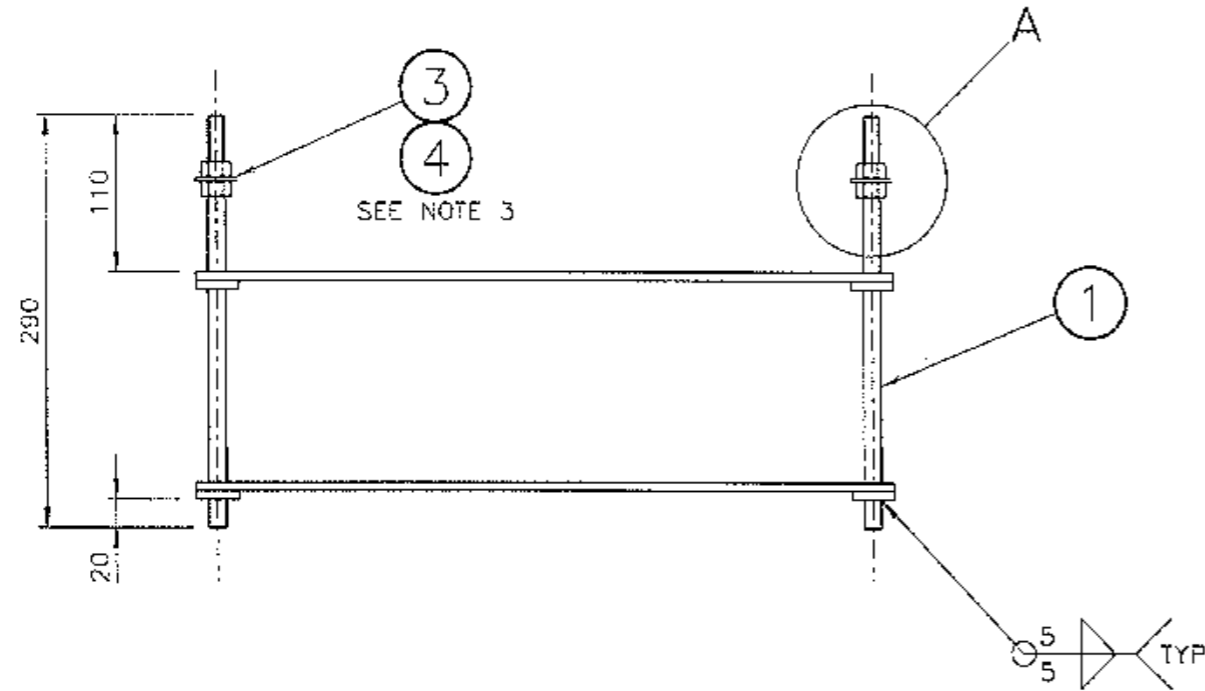
E ISSUE 10-03-2016  
'ALTERNATIVE METHOD'  
DELETED FROM 'FILE'  
IH BWT

REFERENCE PLANS	
POST FOOTING	VC002-71
SUPPLY CATALOGUE NO 18234173	

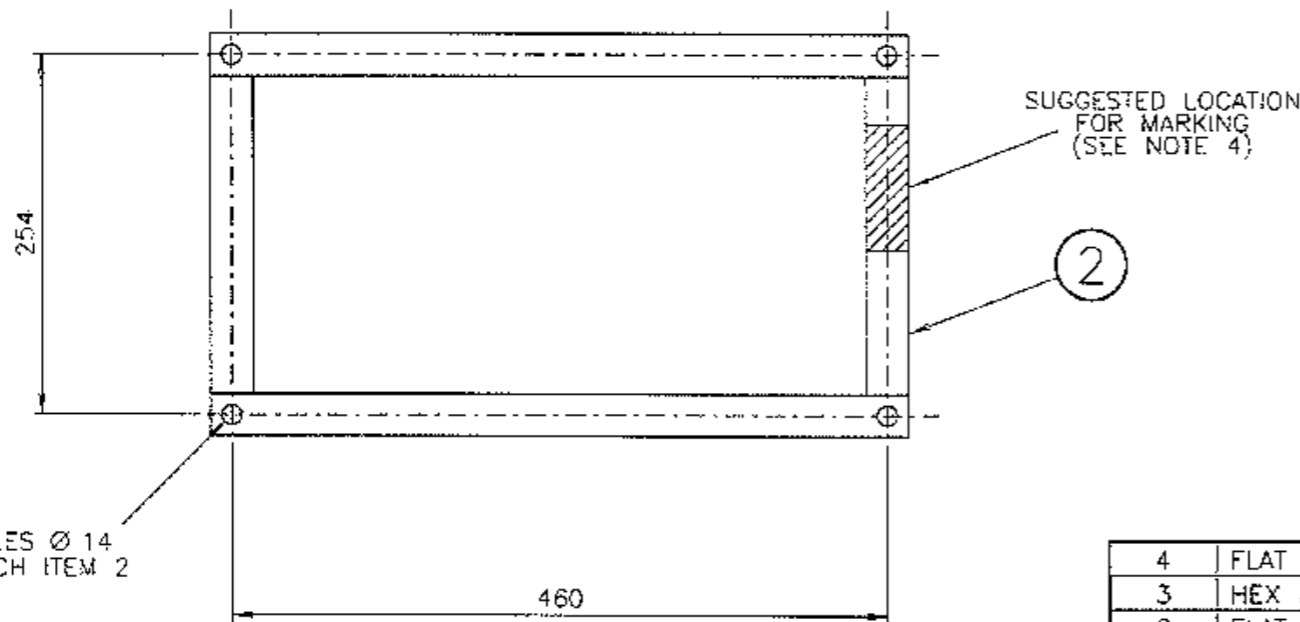
ROADS AND MARITIME SERVICES  
TRAFFIC SIGNALS  
**HOLDING DOWN BOLT ASSEMBLY  
FOR TYPE 2 POST**

SCALE 1 : 10 OR AS SHOWN	
SUPERSEDES:	ISSUE 3
DRAWN	GC 26-09-84
CHECKED	RB 25-10-84
PASSED	BWT 10-02-86

APPROVED: 10-02-1986	
FR HULSCHER SUPERVISING ENGINEER	
ISSUE	1 2 3 4 5 6 7 8 9 10
VC002-50	



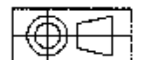
DETAIL A  
(NUTS AND WASHER REMOVED)  
1 : 2



NOTES

1. ALL WELDING SHALL BE IN ACCORDANCE WITH AS/NZS 1554 PART 1.
2. AFTER WELDING, ITEMS 1&2 TO BE HOT DIP GALVANISED IN ACCORDANCE WITH AS/NZS 4680 AND THREADED ENDS OF ITEM 1 IN ACCORDANCE WITH AS 1214.
3. ITEMS 3 AND 4 SHALL BE SUPPLIED AND FITTED (AS SHOWN) BY THE MANUFACTURER.
4. MANUFACTURER'S IDENTIFICATION AND DATE OF MANUFACTURE TO BE MARKED CLEARLY, LEGIBLY AND WATERPROOF.
5. THE GALVANISING SURFACE SHALL BE FREE FROM SHARP PROJECTIONS, DROSS AND DAGS.
6. TOLERANCE:  $\pm 2$  UNLESS STATED OTHERWISE.

DIMENSIONS IN MILLIMETRES



ITEM	DESCRIPTION	MATERIAL	FINISH	QTY
4	FLAT WASHER M12 NORMAL SERIES TO AS 1237	MILD STEEL	GAL TO AN/NZS 4680	4
3	HEX NUT M12 TO AS 1112	MILD STEEL	GAL TO AS/NZS 1214	8
2	FLAT BAR 30x6 TO AS 3679	MILD STEEL	GAL TO AN/NZS 4680	8
1	ROD $\varnothing$ 12 STEEL ROUND TO AS 3679	MILD STEEL	GAL TO AN/NZS 4680	4

C ISSUE 28-04-98  
JI 102349 PLAN  
REDRAWN ITEM 4  
ADDED WASHER  
ITEM 3 WAS NORMAL  
SERIES  
RVC BWT

D ISSUE 29-01-10  
PLAN REDRAWN  
HOLDING-DOWN BOLT  
REVISED TO SUIT  
SOLID CONTROLLER  
FOOTING. REFERENCE  
TO THE PRECAST TOP  
DELETED. REFERENCE  
TO CCTV FOOTING  
ADDED.  
AC BWT

E ISSUE 30-03-10  
ITEM 1 WAS LARGE  
SERIES.  
LC BWT

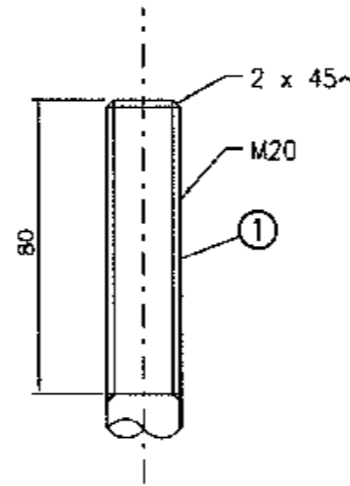
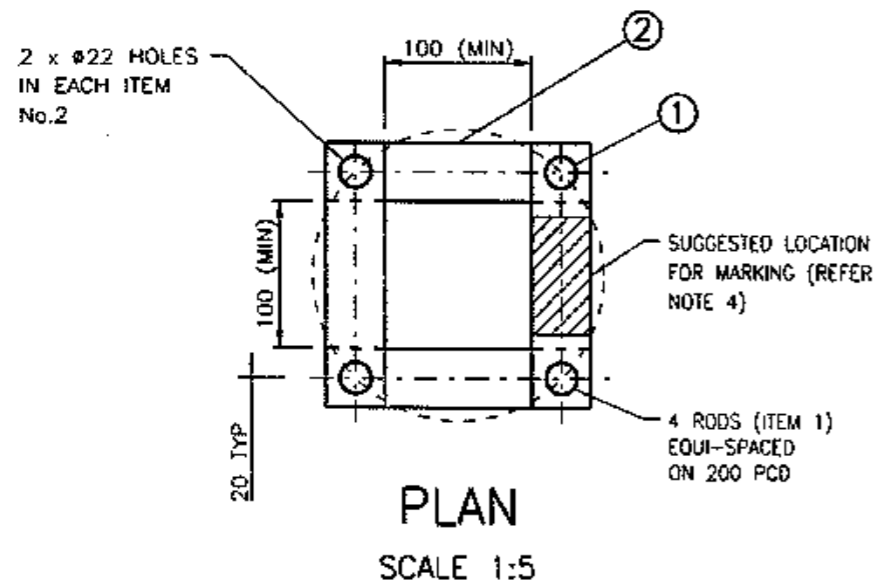
REFERENCE DRAWINGS	
CONTROLLER FOOTING	VC002-73
CCTV HSG FOOTING	VC002-76
RTA CATALOGUE NUMBER 18234159	

ROADS AND TRAFFIC AUTHORITY OF NSW  
TRAFFIC SIGNALS

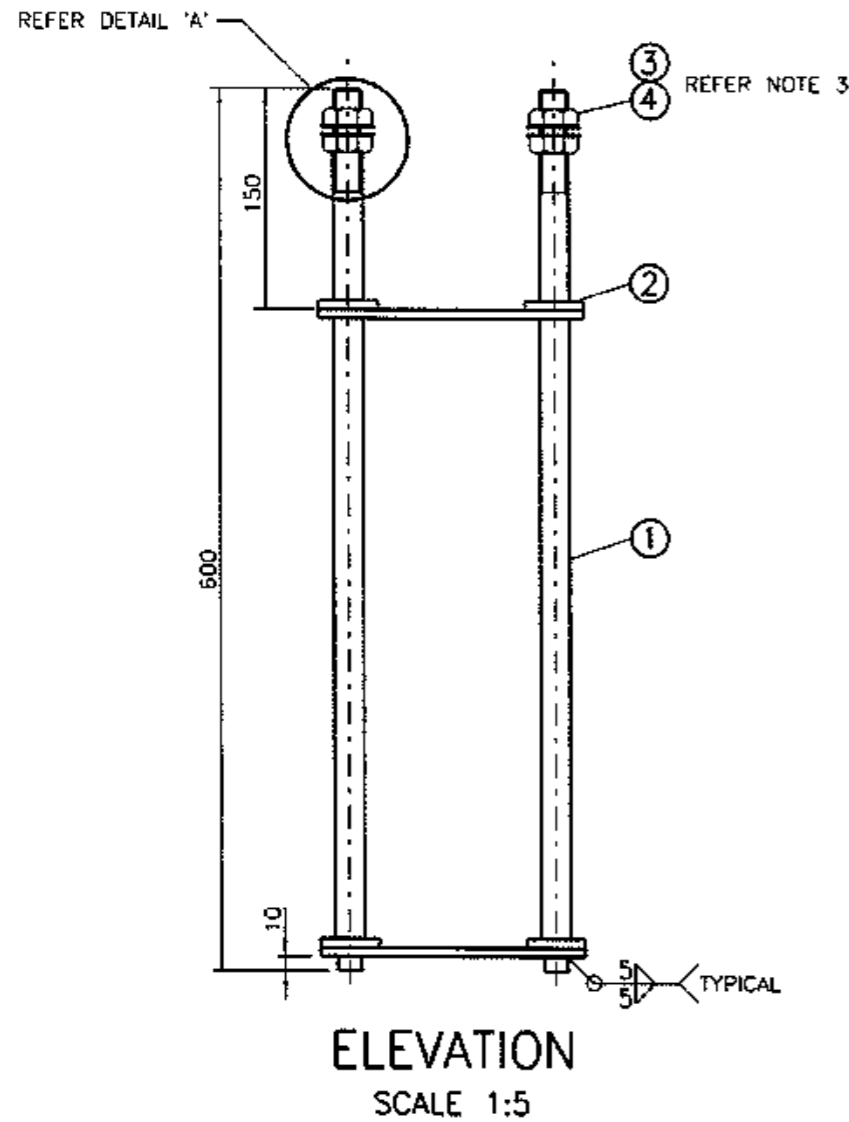
HOLDING-DOWN BOLT ASSEMBLY FOR  
GROUND-MOUNTED CONTROLLER  
AND CCTV HOUSINGS

SCALE	
1 : 5	
SUPERSEDES:	ISSUE 8
DRAWN	GC 06-02-87
CHECKED	RB 26-02-87
PASSED	B. TAYLOR 17-11-89

APPROVED: 17-11-1989	
D VIEYRA	
MANAGER STDS & QUALITY	
ISSUE	2/8/E
VC002-56	



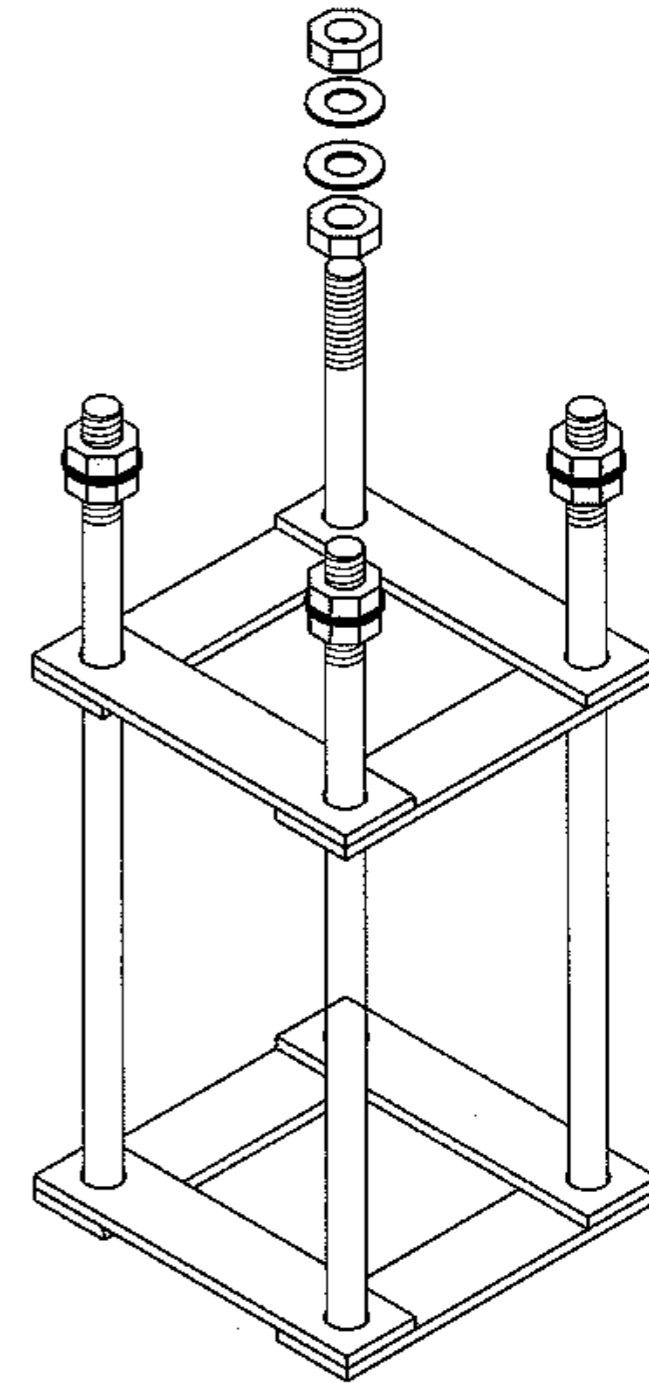
DETAIL 'A'  
SCALE 1:2



ELEVATION  
SCALE 1:5

NOTES:

1. ALL WELDING SHALL BE IN ACCORDANCE WITH AS/NZS 1554 PART 1.
2. AFTER WELDING, ITEMS 1 & 2 TO BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH AS/NZS 4680 AND THREADED ENDS OF ITEM 1 IN ACCORDANCE WITH AS 1214.
3. ITEMS 3 & 4 SHALL BE SUPPLIED AND FITTED (AS SHOWN) BY THE MANUFACTURER.
4. MANUFACTURER'S IDENTIFICATION AND DATE OF MANUFACTURE TO BE MARKED CLEARLY, INDELIBLY AND WATERPROOF.
5. THE GALVANIZING SURFACE SHALL BE FREE FROM SHARP PROJECTIONS, DROSS AND DAGS.
6. TOLERANCE:  $\pm 2\text{mm}$  UNLESS OTHERWISE INDICATED.
7. THE SPACE BETWEEN THE FLAT BARS SHALL ALLOW FOR THE INSTALLATION OF AN 80mm HEAVY DUTY CONDUIT BEND BELLMOUTH O.D.



DIMETRIC VIEW  
N.T.S.

ITEM	DESCRIPTION	MATERIAL	FINISH	QTY
4	FLAT WASHER M20 NORMAL SERIES TO AS 1237	M.S.	GALV. to AS/NZS 4680	8
3	HEX. NUT M20 TO AS/NZS 1112	M.S.	GALV. to AS/NZS 1214	8
2	FLAT BAR 40x6 TO AS/NZS 3679	M.S.	GALV. to AS/NZS 4680	8
1	ROD $\phi 20$ STEEL ROUND TO AS/NZS 3679	M.S.	GALV. to AS/NZS 4680	4

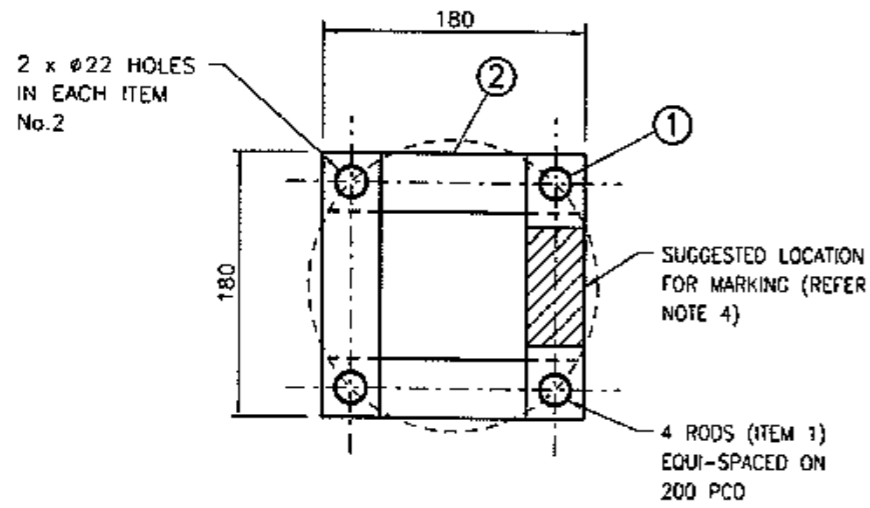
A ORIGINAL ISSUE  
B ISSUE 25.11.09 BOLT CENTRES WERE 180. NOW CHANGED TO 200 PCD. AP BWT  
C: ISSUE 5-11-2010 ITEM 4 WAS LARGE SERIES. AK. B.W.I.  
D ISSUE 08-07-13 TYPE 8 POST ADDED. CAT No ADDED. BWT. LC.  
E ISSUE 16-05-18 CRITICAL 100mm DIM ADDED BETWEEN FLAT BARS. NOTE 7 ADDED. BWT. IH.

REFERENCE DRAWINGS	
Post Footing	VC002-59
Post Type 7	VM202-15
Post Type 8	VM202-25
SUPPLY CATALOGUE No. 18234549	

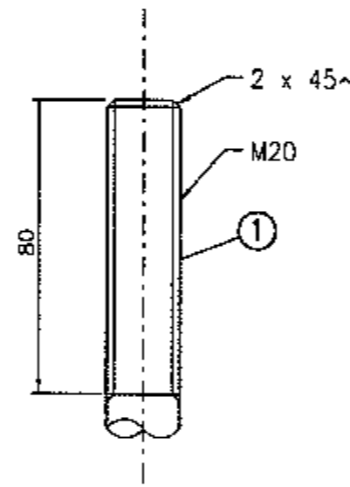
ROADS AND MARITIME SERVICES  
TRAFFIC SIGNALS  
**HOLDING DOWN BOLT ASSEMBLY  
FOR TYPE 7 & 8 POSTS**

SCALE AS SHOWN	
SUPERSEDES:	
DRAWN	F.P. 19/02/09
CHECKED	L.H. 22/02/09
PASSED	B TAYLOR 25-02-09

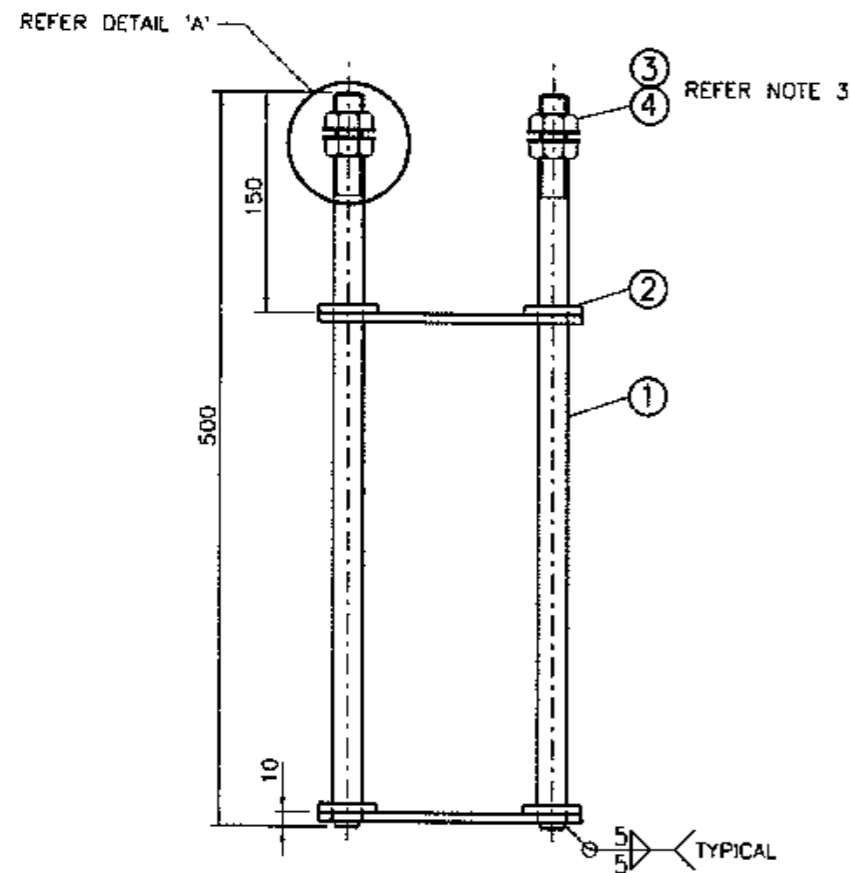
APPROVED: - SUNIL SRIVASTAVA 25-02-09 MANAGER EQUIPMENT & STDS	
ISSUE	<input checked="" type="checkbox"/> A <input checked="" type="checkbox"/> B <input checked="" type="checkbox"/> C <input checked="" type="checkbox"/> D <input checked="" type="checkbox"/> E
VC002-60	



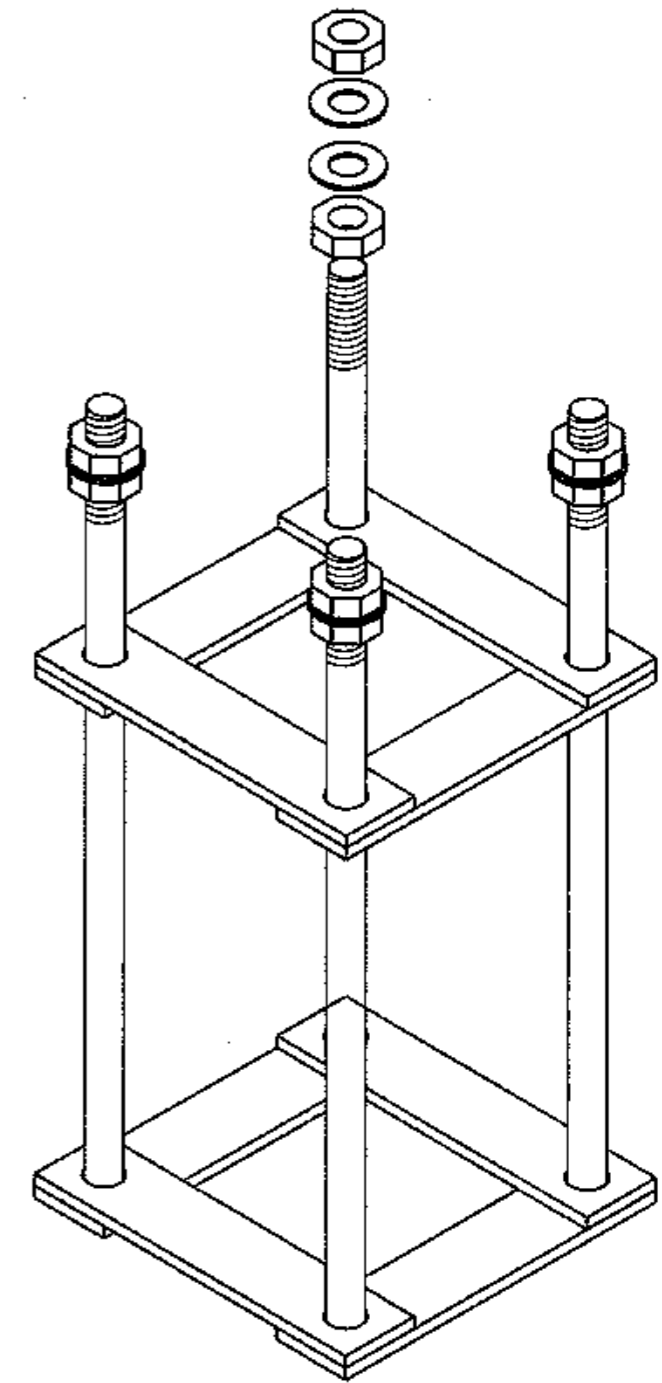
PLAN  
SCALE 1:5



DETAIL 'A'  
SCALE 1:2



ELEVATION  
SCALE 1:5



DIMETRIC VIEW  
N.T.S.

NOTES:

1. ALL WELDING SHALL BE IN ACCORDANCE WITH AS/NZS 1554 PART 1.
2. AFTER WELDING, ITEMS 1 & 2 TO BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH AS/NZS 4680 AND THREADED ENDS OF ITEM 1 IN ACCORDANCE WITH AS 1214.
3. ITEMS 3 & 4 SHALL BE SUPPLIED AND FITTED (AS SHOWN) BY THE MANUFACTURER.
4. MANUFACTURER'S IDENTIFICATION AND DATE OF MANUFACTURE TO BE MARKED CLEARLY, INDELIBLY AND WATERPROOF.
5. THE GALVANIZING SURFACE SHALL BE FREE FROM SHARP PROJECTIONS, DROSS AND DAGS.
6. TOLERANCE:  $\pm 2$ mm UNLESS OTHERWISE INDICATED.

ITEM	DESCRIPTION	MATERIAL	FINISH	QTY
4	FLAT WASHER M20 NORMAL SERIES TO AS 1237	M.S.	GALV. to AS/NZS 4680	8
3	HEX. NUT M20 TO AS/NZS 1112	M.S.	GALV. to AS/NZS 1214	8
2	FLAT BAR 40x6 TO AS/NZS 3679	M.S.	GALV. to AS/NZS 4680	8
1	ROD $\phi$ 20 STEEL ROUND TO AS/NZS 3679	M.S.	GALV. to AS/NZS 4680	4

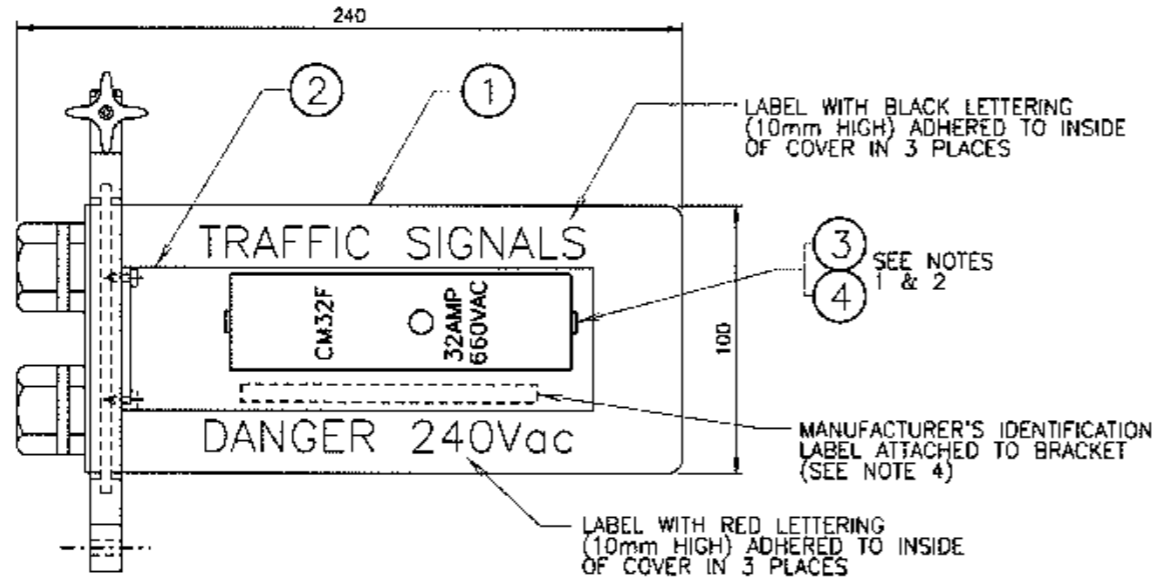
A ORIGINAL ISSUE  
B: ISSUE.  
DATE: 2-11-2010  
ITEM 4 WAS  
LARGE SERIES.  
AK. B.W.T.

REFERENCE DRAWINGS	
Post Footing	VC002-66
Post Type 13	VM202-20
SUPPLY CATALOGUE No. 18234156	

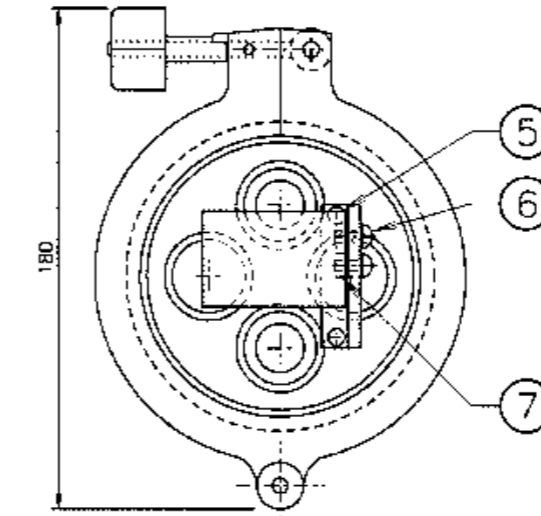
ROADS AND TRAFFIC AUTHORITY OF NSW  
TRAFFIC SIGNALS  
**HOLDING DOWN BOLT ASSEMBLY  
FOR TYPE 13  
PUSH BUTTON POST**

SCALE AS SHOWN	
SUPERSEDES:	
DRAWN	T.K. 02/07/03
CHECKED	IH 2003-10-02
PASSED	B. TAYLOR 2003-11-25

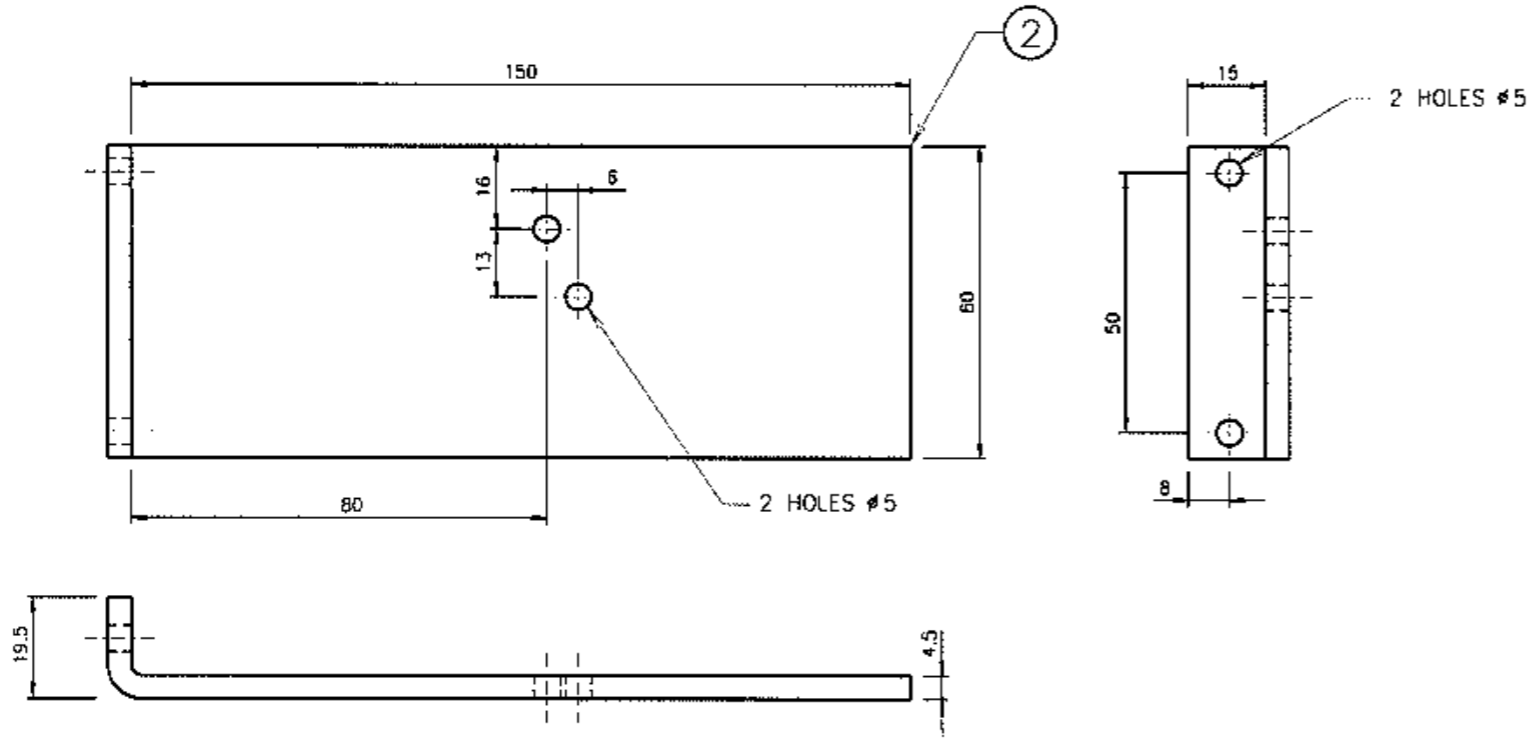
APPROVED: 2003-11-27	
S. SRIVASTAVA MANAGER EQUIPMENT & STDS	
ISSUE	8
VC002-67	



ELEVATION  
(NTS)



END VIEW (COVER REMOVED)  
(NTS)



ITEM 2, FUSE HOLDER MOUNTING BRACKET  
MATERIAL: LEXAN EXELL D POLYCARBONATE  
SCALE 1:1

NOTES

- FUSE LINK (ITEM 4) SHALL BE BOLTED CONNECTION TYPE A2, gG (GENERAL PURPOSE TYPE) RATED AT 32AMPS, IN ACCORDANCE WITH AS 60269.2.1.
- FUSE HOLDER (ITEM 3) SHALL BE THE FRONT CONNECTED TYPE; COOPER BOSSMANN CAMASTER No. CM32F IN ACCORDANCE WITH AS 60269.2.1 AND SUITABLE FOR ITEM 4.
- FUSE ENCLOSURE TO BE CLEARLY AND INDELIBLY MARKED TO INDICATE MANUFACTURER'S IDENTIFICATION AND DATE OF MANUFACTURE.
- FUSE ENCLOSURE TO BE INDIVIDUALLY PACKED FOR PROTECTION IN TRANSPORT AND CLEARLY MARKED EXTERNALLY WITH:
  - DESCRIPTION OF CONTENTS;
  - MANUFACTURER'S IDENTIFICATION;
  - RMS ORDER No.; AND
  - RMS CATALOGUE No. 70020480.
- ALL ITEMS TO BE SUPPLIED FITTED BY MANUFACTURER EXCEPT FOR TWO SPARE GLAND INSERTS WITH #10mm CABLE ENTRY HOLES TO BE PLACED IN A PLASTIC BAG INSIDE THE ENCLOSURE.
- THE ENCLOSURE TO BE SUPPLIED FITTED WITH TWO GLANDS WITH INSERTS WITH #6mm CABLE ENTRY HOLES.

ITEM	DESCRIPTION	QTY
7	HEX. NUT M5 STAINLESS STEEL	2
6	ROUND HEAD SCREW M5x15 STAINLESS STEEL PHILLIPS DRIVE	2
5	SELF TAPPER SCREW 6x12 STAINLESS STEEL ROUND HEAD PHILLIPS DRIVE	2
4	FUSE-LINK (SEE NOTE 1)	1
3	FUSE-HOLDER (SEE NOTE 2)	1
2	FUSE-HOLDER MOUNTING BRACKET	1
1	ENCLOSURE WITH TRANSPARENT COVER, AGD SYSTEMS PART No. BL2/S/1SS4CLO/C	1

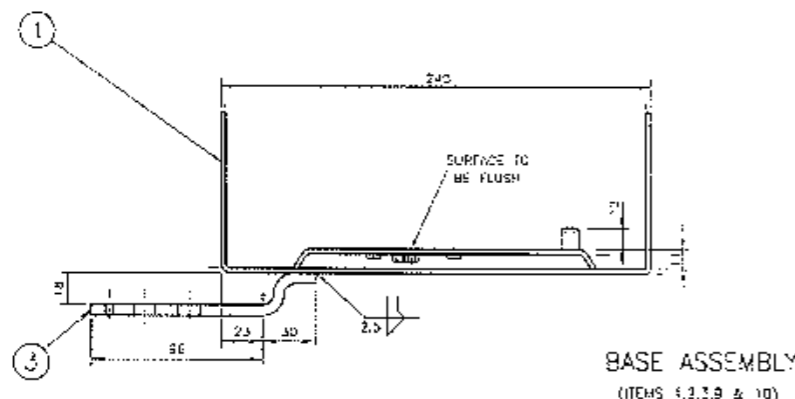
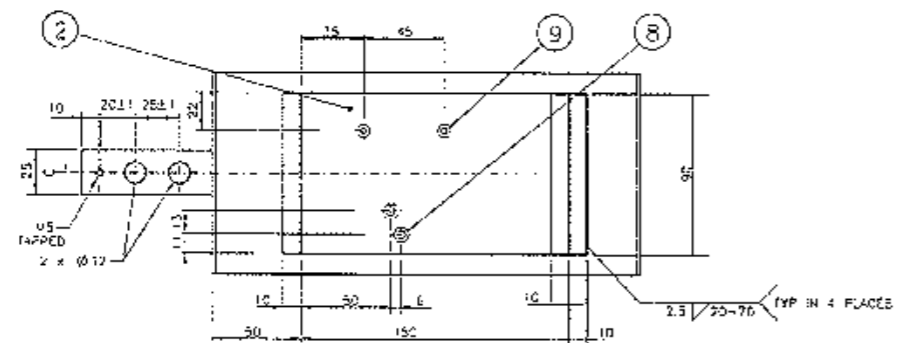
ISSUE H 04-02-2016  
 DRAWN TO SUIT  
 REVISED BOX ENCLOSURE.  
 H/H/DB BWT.  
 ISSUE I 02-02-2017  
 ITEM No. 1 SUPPLIER'S NAME:  
 CORRECTION OVERALL  
 DIMENSIONS OF ITEM No. 1  
 ADDED.  
 H/H/DB BWT.

REFERENCE DRAWINGS		DRAWN
INSTALLATION	VE500-11	G.C. 31-10-1986
PJ BOX	VC007-4	CHECKED
SUPPORT CRADLE	VM052-5	RCV 22-09-1989
RMS SUPPLY CAT. No. 70020483		PASSED
		B. TAYLOR 10-10-1989
		APPROVED
		O. VIEYRA
		STANDARDS & QUALITY
		DATE 11-10-1989

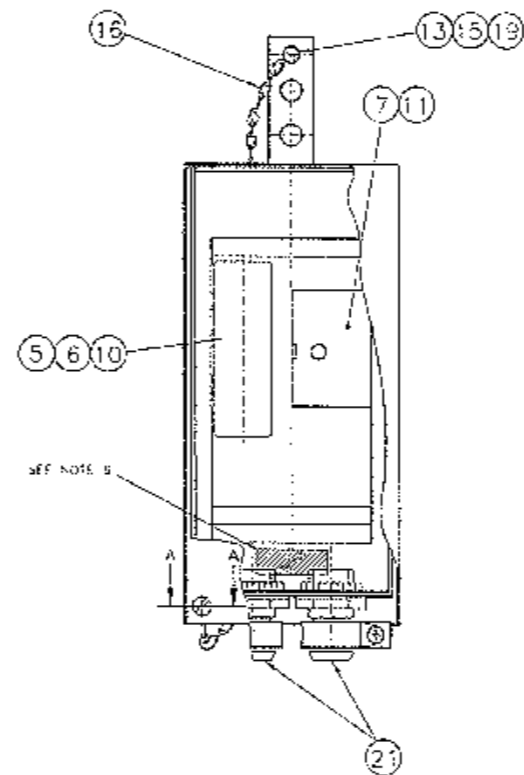
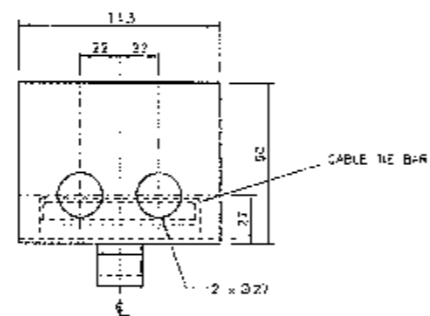
ROADS AND MARITIME SERVICES  
TRAFFIC SIGNALS

UNDERGROUND FUSE BOX  
ASSEMBLY FOR TRAFFIC SIGNALS

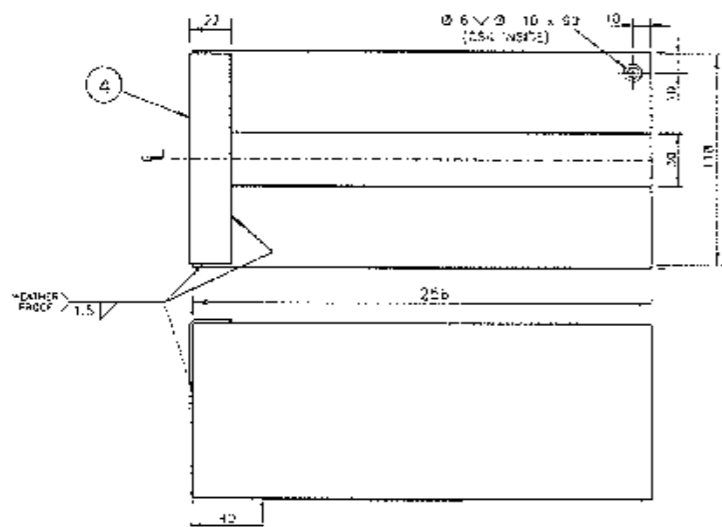
SHEET SIZE	FILE NO	SCALE
A2	-----	AS SHOWN
SUPERSEDES ISSUE G		ISSUE 1
REG NO		VE500-10



BASE ASSEMBLY  
(ITEMS 1, 3, 9 & 10)



SECTION A - A  
1 : 1



COVER  
(ITEM 4)

NOTES

1. TOLERANCES: BETWEEN HOLE CENTRES AND HOLE DIAMETERS ±0.3MM UNLESS OTHERWISE STATED. GENERAL TOLERANCE ±1.0.
2. NEUTRAL LINK TYPE SHALL BE FEDERAL CAT NO 5015 OR SIMILAR.
3. ALL THREADED HOLES TO BE PROTECTED DURING THE COATING PROCESS.
4. ALL ITEMS ARE TO BE SUPPLIED FITTED BY MANUFACTURER EXCEPT 17 & 18 TO BE PLACED IN A PLASTIC BAG AND SECURED TO THE INSIDE OF ITEM 1.
5. FUSE-LINK (ITEM 6) SHALL BE THE BOLTED CONNECTION TYPE A2, gG (GENERAL PURPOSE TYPE) RATED AT 32 AMPS, IN ACCORDANCE WITH AS 60269.2.1. FUSE-HOLDER (ITEM 5) SHALL BE THE FRONT CONNECTED TYPE, COOPER BUSSMANN - CAMASTER (CAT No. CM32F), IN ACCORDANCE WITH AS 60269.2 AND SUITABLE FOR ITEM 5.
6. FUSE BOX BASE TO BE CLEARLY AND INDELIBLY MARKED TO INDICATE MANUFACTURER'S IDENTIFICATION AND DATE OF MANUFACTURE.
7. FUSE BOXES TO BE INDIVIDUALLY PACKED FOR PROTECTION IN TRANSPORT AND CLEARLY MARKED EXTERNALLY WITH:
  - (a) DESCRIPTION OF CONTENTS
  - (b) MANUFACTURER'S IDENTIFICATION
  - (c) RTA ORDER NO
  - (d) RTA CATALOGUE NO. 70010496
8. THE FOLLOWING PROCESSES ARE TO BE CARRIED OUT ON THE ITEMS PRIOR TO COATING WITH RISLAN:
  - (a) DEGREASE.
  - (b) MECHANICAL OR CHEMICAL ETCHING.
  - (c) APPLICATION OF A SUITABLE PRIMER.
 THESE PROCESSES ARE TO BE DONE TO GUIDELINES SET OUT BY THE BY THE MANUFACTURERS OF RISLAN.

ITEM	DESCRIPTION	MATERIAL	FINISH	QTY	
21	CONDUIT TERMINATOR (2mm CLIPSP: CAT NO 268/25)	NYLON		2	
20	RETROREFLECTIVE LABEL	VM007-3		1	
19	CHEESE HEAD SCREW M5 x 12	AS1477	CP STL	NATURAL	1
18	FLAT WASHER M5	AS1237	STL	GNV	2
17	CONCH. SCREW M10 x 30	AS1393	STL	GNV	2
16	SHORT LINK CHAIR 2mm		316 CP STL	NATURAL	1
15	SPRING WASHER M5	AS1565	316 CP STL	NATURAL	2
14	HEX NUT M5	AS1112	CP STL	NATURAL	1
13	FLAT WASHER M5	AS1237	CP STL	NATURAL	2
12	EQUIV. LINK SCREW M5 x 12	AS1477	CP STL	NATURAL	2
11	EQUIV. LINK SCREW M4 TO SUIT ITEM 7	AS1427	CP STL	NATURAL	2
10	COUNTERSINK SCREW M5 TO SUIT ITEM 5	AS1477	CP STL	NATURAL	2
9	POOT NUT M4		STL	Zr PLY	2
8	POOT NUT M5		STL	Zr PLY	2
7	NEUTRAL LINK (BOARD, 4 terminals with 2 screws each)	TO AS 3000		SEE NOTE 2	1
6	FUSE-LINK (SEE NOTE 5)				1
5	FUSE-HOLDER (SEE NOTE 5)				1
4	COVER 1.6mm THICK	ALUMINIUM	RELM		1
3	BASE FIXING STRIP, 25mm x 6mm THICK	ALLOY 6052	W/OUT BLACK		1
2	BASE MOUNTING PLATE 2.0mm THICK	H14 OR	SM-BLKS		1
1	BASE 2.5mm THICK	S251 H34	PLUM-SLKS-BL		1

V. ISSUE 22-05-2000  
 PLAN WAS DR. BY SHI.  
 ITEM 1 WAS 125 LONG.  
 ITEM 2 WAS 115 LONG.  
 ITEM 3 WAS 213 LONG.  
 ADDED CABLE TIE BAR.  
 III

BY ISSUE 03-10-2015  
 ITEM 5 (COOPER BUSSMANN)  
 FUSE HOLDER DETAILS  
 LABOED IN NOTE 5. ASST  
 STD WAS AS 2005.2.1.2.  
 III

REFERENCE DRAWINGS	DRYAN A. GIMPH
GENERAL MANAGEMENT 1-ES06-1	CHECKED BY 23-11-82
RTA CATALOGUE NO.	70010496
DATE	10-01-1983

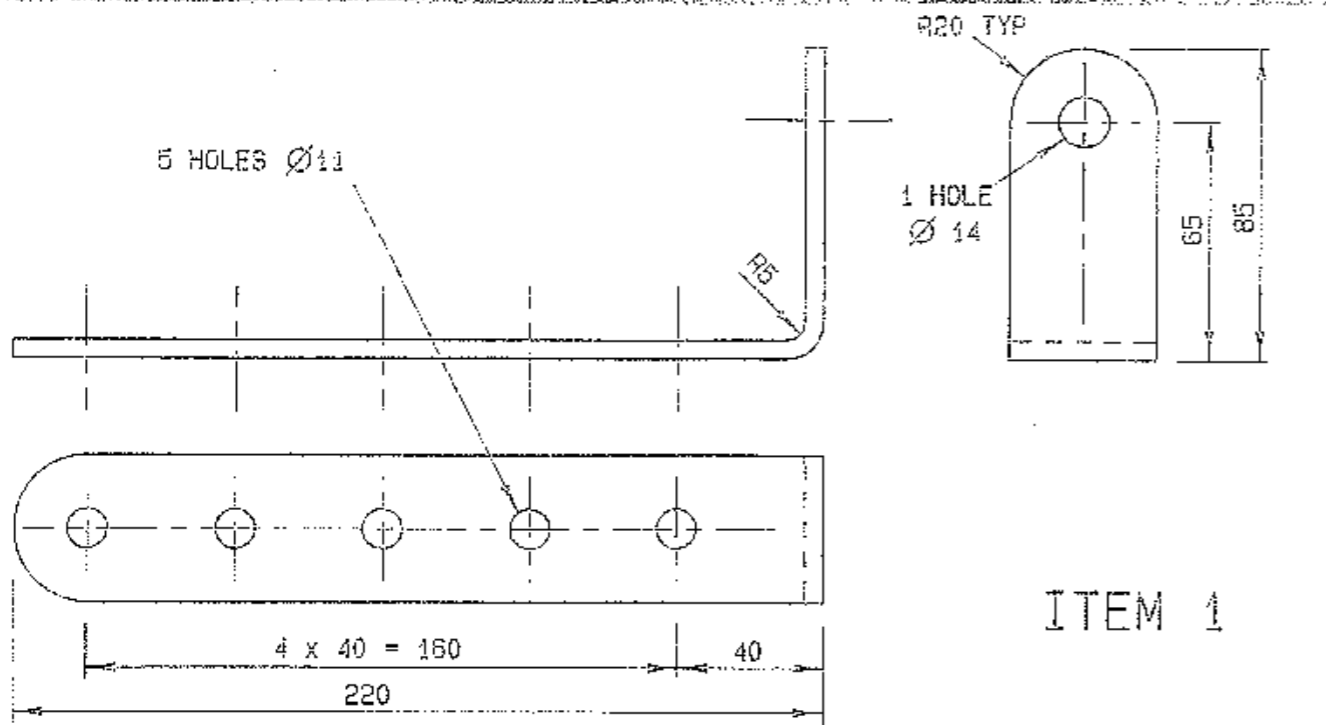
ROADS AND MARITIME SERVICES  
 TRAFFIC SIGNALS  
 POLE MOUNTING FUSE BOX

SHEET SIZE A1  
 FILE NO  
 SCALE 1 : 2  
 SHEET NO

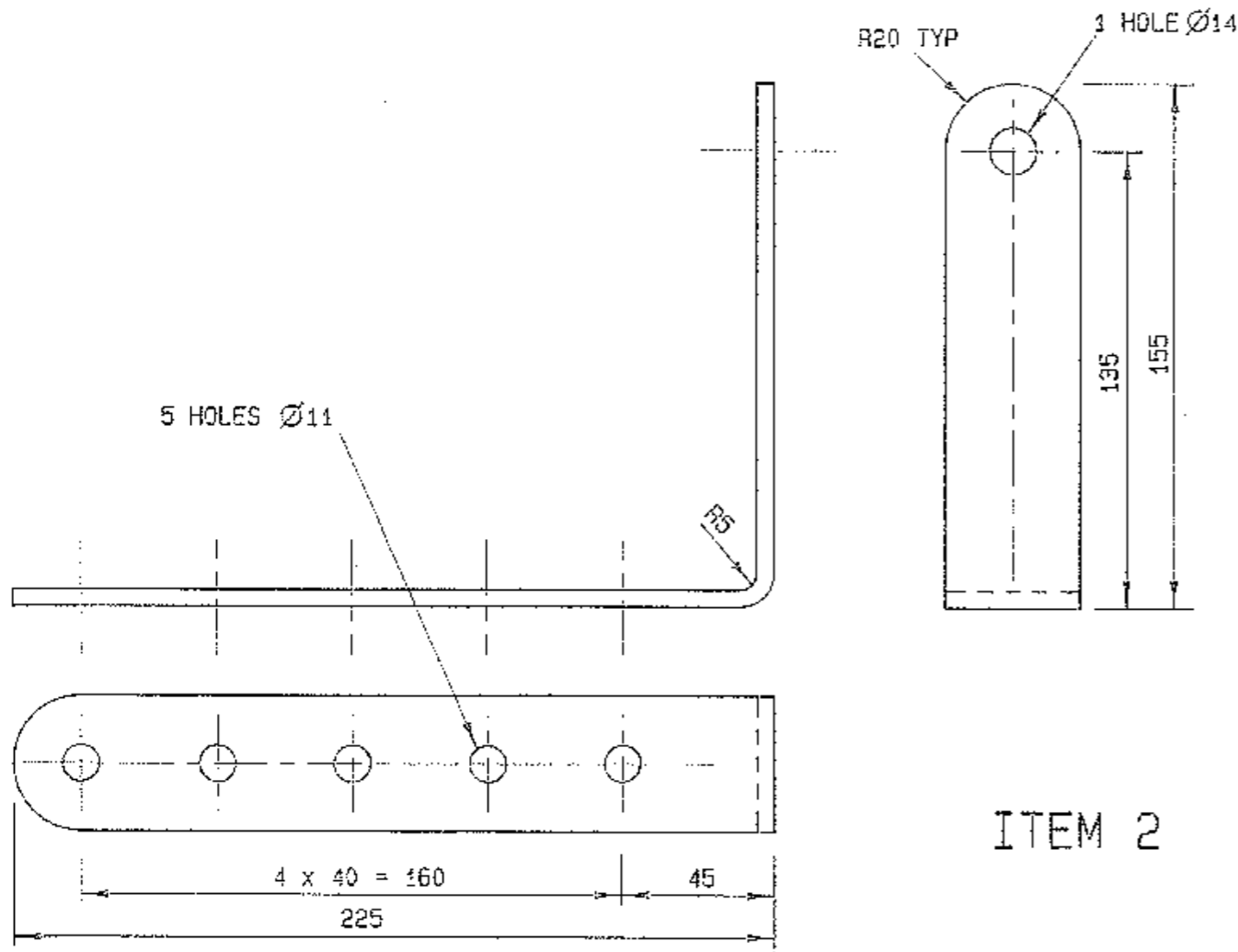
SUPERSEDES: ISSUE U  
 ISSUE W  
 REC NO  
 VM007-2



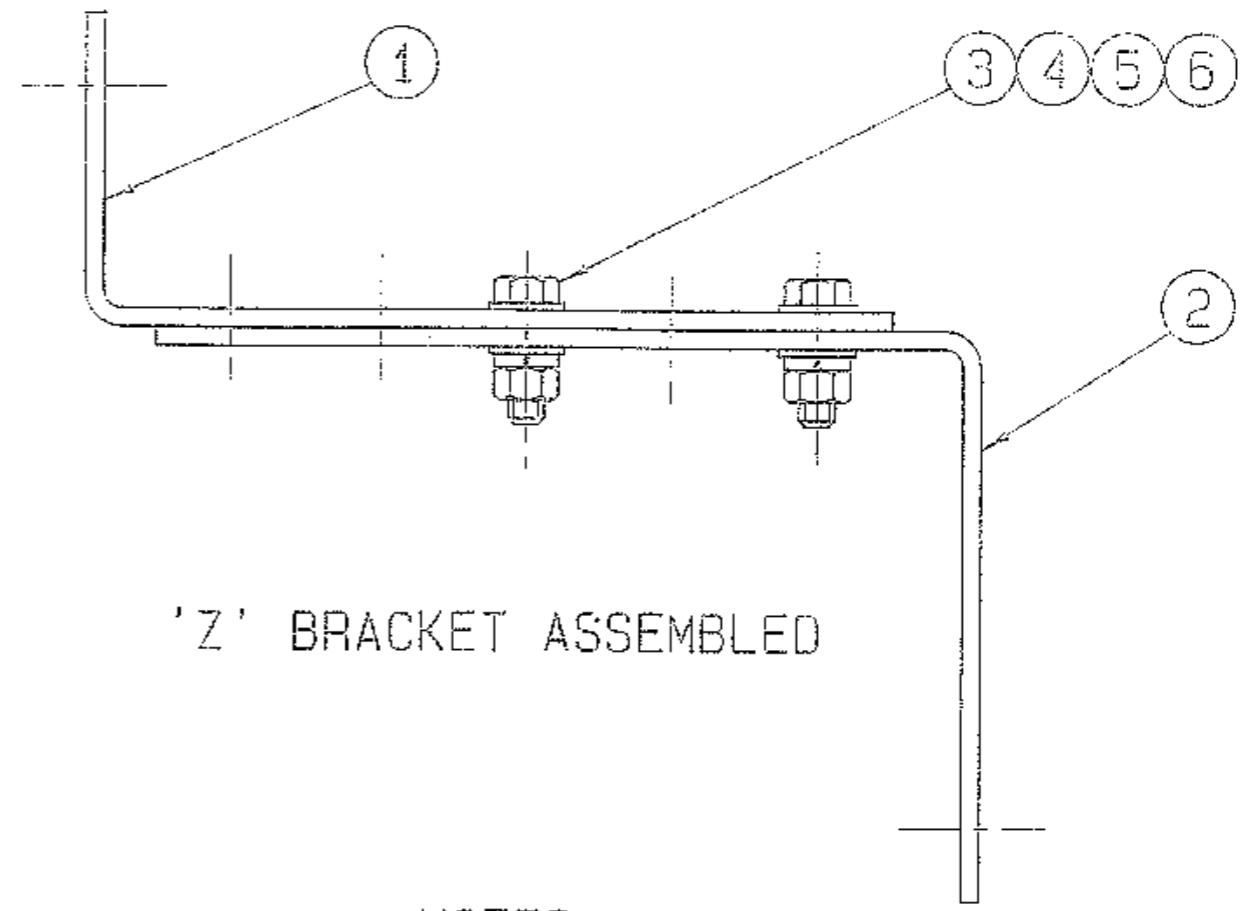




ITEM 1



ITEM 2



'Z' BRACKET ASSEMBLED

NOTES

1. DEBURR AND REMOVE SHARP CORNERS AND EDGES.
2. GENERAL TOLERANCE ±2 AND FOR HOLE CENTRES & HOLES ±0.5.
3. ITEMS 1 & 2 TO BE GALVANISED IN ACCORDANCE WITH AS 1650.
4. ALL ITEMS SHALL BE SUPPLIED & FITTED (AS SHOWN ABOVE) BY THE MANUFACTURER.
5. ITEMS 1 AND 2 TOLERANCED IN ACCORDANCE WITH AS 3679.

DIMENSIONS ARE IN MILLIMETRES

ITEM	DESCRIPTION	MATERIAL	FINISH	QTY
6	FLAT WASHER M10 TO AS 1237	STAINLESS STEEL	NATURAL	4
5	SPRING WASHER M10 TO AS 1978	STAINLESS STEEL	NATURAL	2
4	HEX NUT M10 TO AS 1112	STAINLESS STEEL	NATURAL	2
3	HEX HEAD SCREW M10 X 30 TO AS 1111	STAINLESS STEEL	NATURAL	2
2	BRACKET ITEM 2 40 X 5 FLAT TO AS 3679	MILD STEEL	HD GALV TO AS 1650	1
1	BRACKET ITEM 1 40 X 5 FLAT TO AS 3679	MILD STEEL	HD GALV TO AS 1650	1

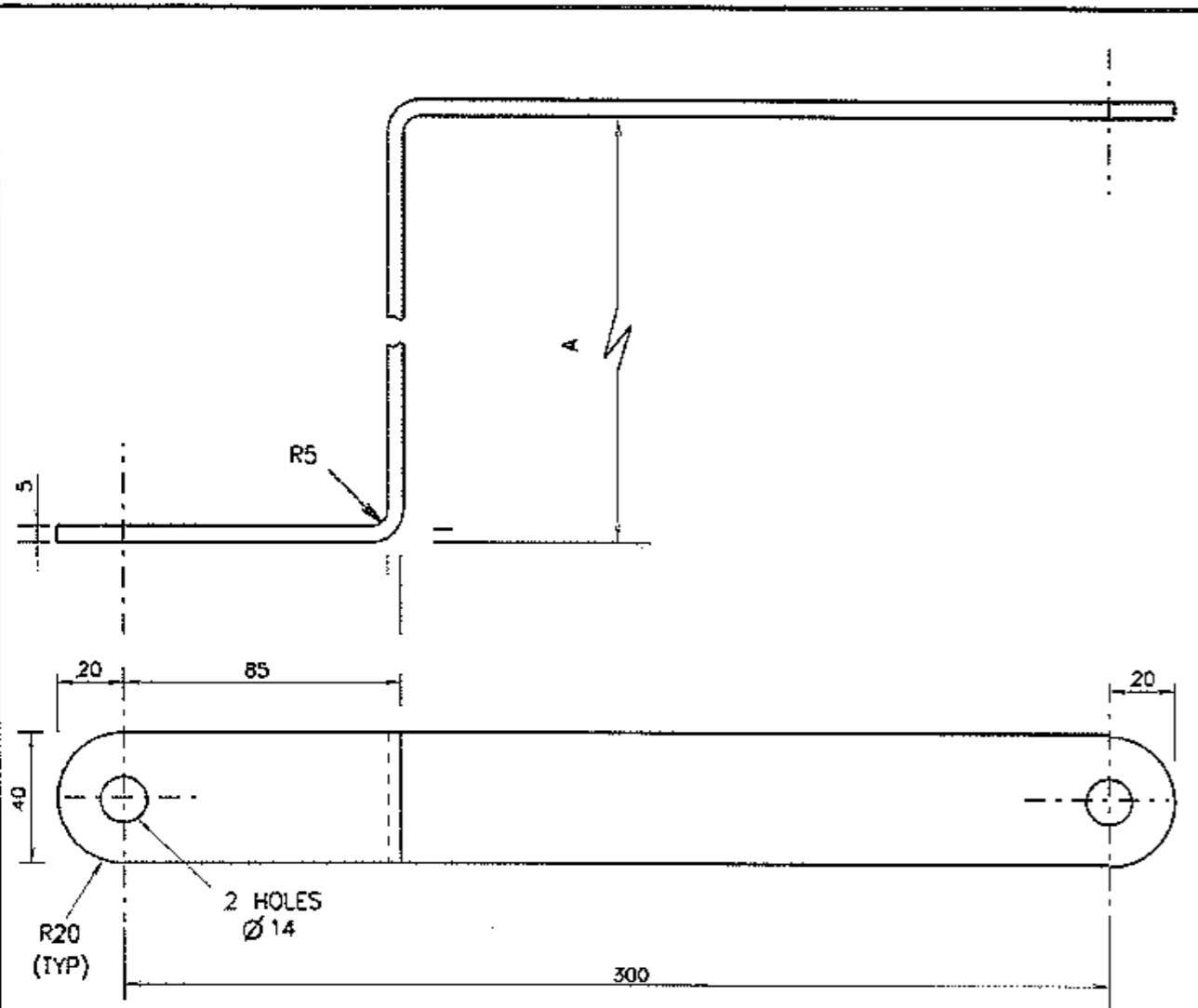
C ISSUE 9-10-96  
 J1 7C2352 BRACKET  
 REDESIGNED TO SUIT  
 NEW LANTERNS AND  
 LOCK WASHERS.  
 RVC

REFERENCE DRAWINGS  
 FIXED Z BKT 200mm VM012-12  
 FIXED Z BKT 300mm VM012-13  
 SUPPLY CAT NO  
 18230631

ROADS AND TRAFFIC AUTHORITY OF NSW  
 TRAFFIC SIGNALS  
 ADJUSTABLE 'Z' BRACKET  
 FOR 200mm LANTERNS

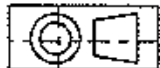
SCALE  
 1 : 2  
 SUPERSEDES: ISSUE B  
 DRAWN LG 22-10-84  
 CHECKED RB 23-10-84  
 PASSED BT 11-12-84

APPROVED: 15-03-1985  
 G LAKE  
 ACTING MANAGER STCS & Q-TY  
 ISSUE C  
 VM012-8



SIZE	DIMENSION A	SUPPLY CAT NO
1	160	18230323
2	240	18230332
3	320	18230350

- NOTES
1. MATERIAL : GRADE 250 FLAT STEEL BAR TO AS3679
  2. FINISH : HOT DIPPED GALVANISED TO AS1650
  3. TOLERANCE :  $\pm 1\text{mm}$
  4. ALL BURRS & SHARP EDGES TO BE REMOVED BEFORE GALVANISING.



DIMENSIONS IN MILLIMETRES

A ORIGINAL ISSUE  
B ISSUE 7-5-13  
FLAT BAR ADDED  
TO NOTE 1. NOTE  
4 ADDED.  
L.C. BWT.

REFERENCE DRAWINGS

Z BKT 200 LANTERN VM012-12

ROADS AND TRAFFIC AUTHORITY OF NSW  
TRAFFIC SIGNALS

SCALE  
1 : 2

APPROVED: 15-10-1996

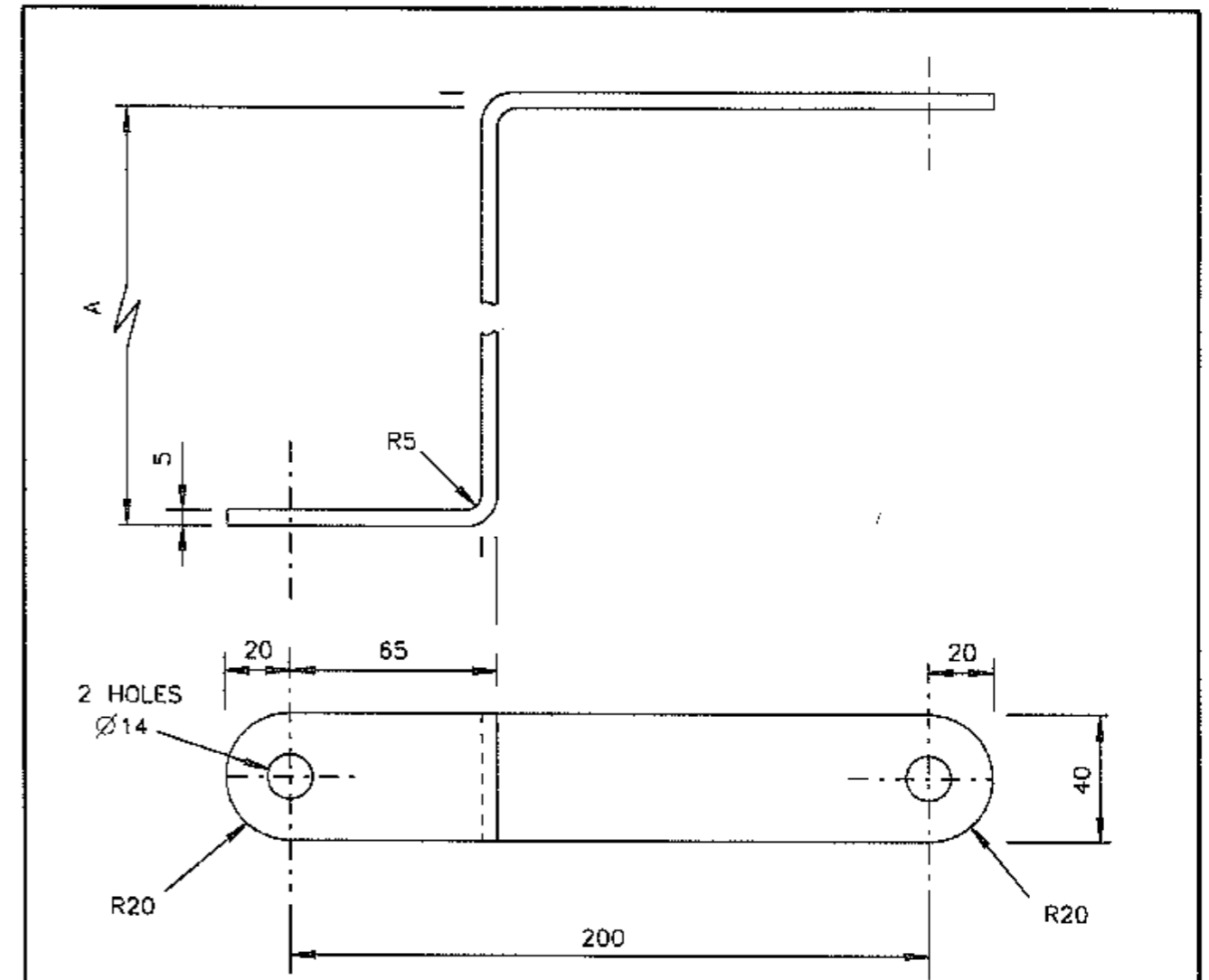
T CARIOLA  
MANAGER EQUIPMENT & STDS

MECHANICAL DETAILS  
OF FIXED "Z" BRACKET  
FOR 300mm LANTERNS

SUPERSEDES: VM012-3  
DRAWN RVC 08-10-96  
CHECKED BWT  
PASSED B TAYLOR  
15-10-96

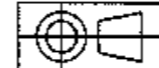
ISSUE A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

VM012-13



SIZE	DIMENSION A	SUPPLY CAT NO
1	120	18230322
2	240	18230331
3	280	18230349
4	360	18230357

- NOTES
1. MATERIAL : GRADE 250 FLAT STEEL BAR TO AS3679
  2. FINISH : HOT DIPPED GALVANISED TO AS1650
  3. TOLERANCE :  $\pm 1\text{mm}$
  4. ALL BURRS & SHARP EDGES TO BE REMOVED BEFORE GALVANISING



DIMENSIONS IN MILLIMETRES

A ORIGINAL ISSUE  
B ISSUE 20/8/12  
Z BRACKET SIZE  
No 1, DIM 'A'  
WAS 160.  
L.C. BWT.

C ISSUE 07/5/13  
FLAT BAR ADDED  
TO NOTE 1. NOTE  
4 ADDED.  
L.C. BWT.

REFERENCE DRAWINGS

Z BKT 300 LANTERN VM012-13

ROADS AND TRAFFIC AUTHORITY OF NSW  
TRAFFIC SIGNALS

SCALE  
1 : 2

APPROVED: 15-10-1996

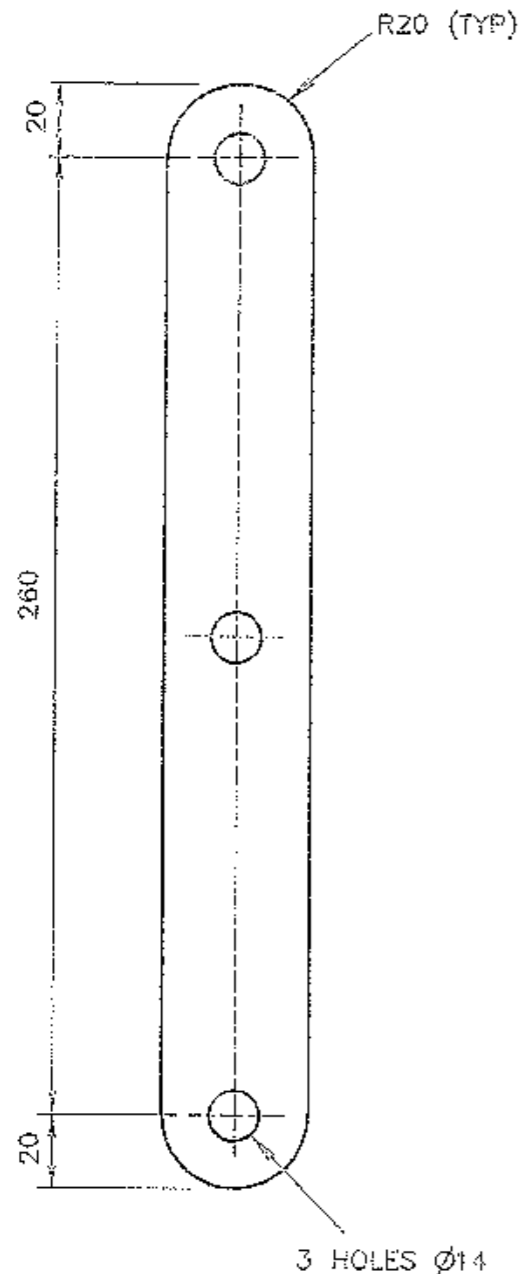
T CARIOLA  
MANAGER EQUIPMENT & STDS

MECHANICAL DETAILS  
OF FIXED "Z" BRACKET  
FOR 200mm LANTERNS

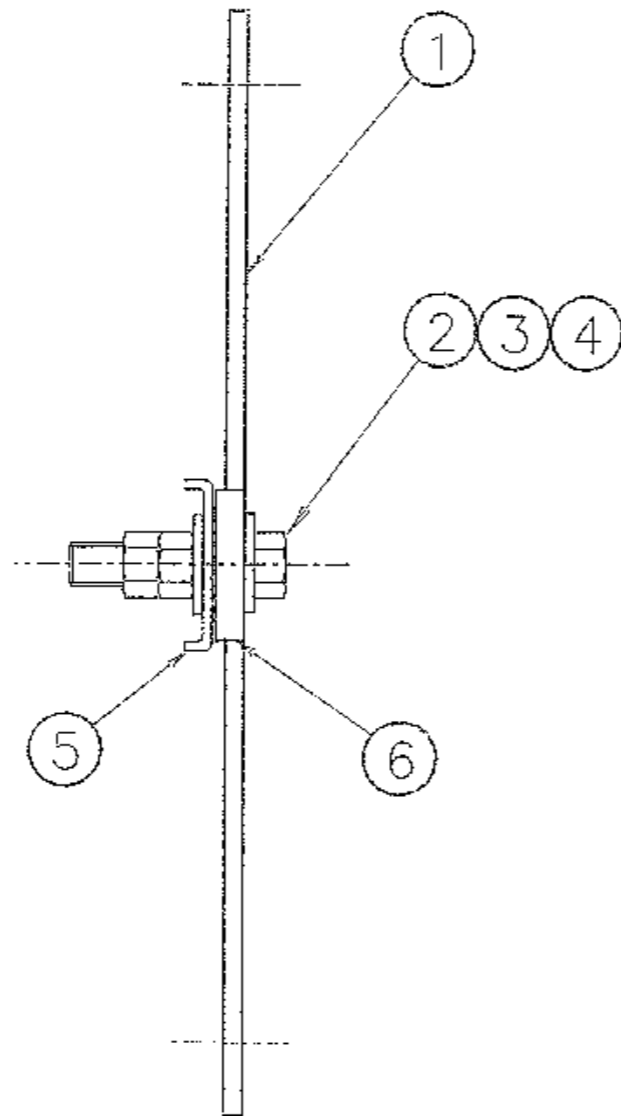
SUPERSEDES: VM012-3  
DRAWN RVC 03-10-96  
CHECKED BWT  
PASSED B TAYLOR  
15-10-96

ISSUE A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

VM012-12



3 HOLES  $\phi 14$

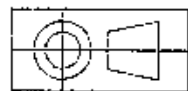


SIDE VIEW

(DETAIL ASSEMBLY)

## NOTES

1. DEBURR AND REMOVE SHARP EDGES AND CORNERS.
2. ALL ITEMS SHALL BE SUPPLIED AND FULLY ASSEMBLED (AS SHOWN) BY THE MANUFACTURER.
3. THE SPECIAL LOCK WASHER (ITEM 6) TO BE FITTED TO THE STRAP WITH THE STANDARD LOCK WASHER (ITEM 5), DIMPLE TO DIMPLE.
4. LOCK WASHERS TO BE MANUFACTURED TO RTA PLANS VM200-24 AND VM200-29.
5. TOLERANCE:  $\pm 1\text{mm}$



DIMENSIONS IN MILLIMETRES

ITEM	DESCRIPTION	MATERIAL	FINISH	QTY
6	SPECIAL LOCK WASHER (SEE PLAN VM200-29)	STAINLESS STEEL	BLACK	1
5	STANDARD LOCK WASHER (SEE PLAN VM200-24)	STAINLESS STEEL	NATURAL	1
4	HEXAGON HEAD NUT M12 TO AS 1112	MILD STEEL	GALVANISED TO AS 1214	2
3	HEXAGON HEAD BOLT M12 X 50 TO AS 1111		TO AS 1214	1
2	FLAT WASHER M12 LARGE SERIES TO AS 1237		GALVANISED TO AS 4680	2
1	STEEL FLAT BAR 40 X 5 TO AS 3679			1

A ORIGINAL ISSUE

REFERENCE DRAWINGS	
ASSEMBLY DETAILS	VM200-27
STD LOCK WASHER	VM200-24
SPECIAL LOCK WASHER	VM200-29
TEE-BAR 300mm LANT	VM012-15
RTA CAT NO 18230543	

ROADS AND TRAFFIC AUTHORITY OF NSW  
TRAFFIC SIGNALS

TEE-BAR STRAP  
FOR DUAL 200mm LANTERNS

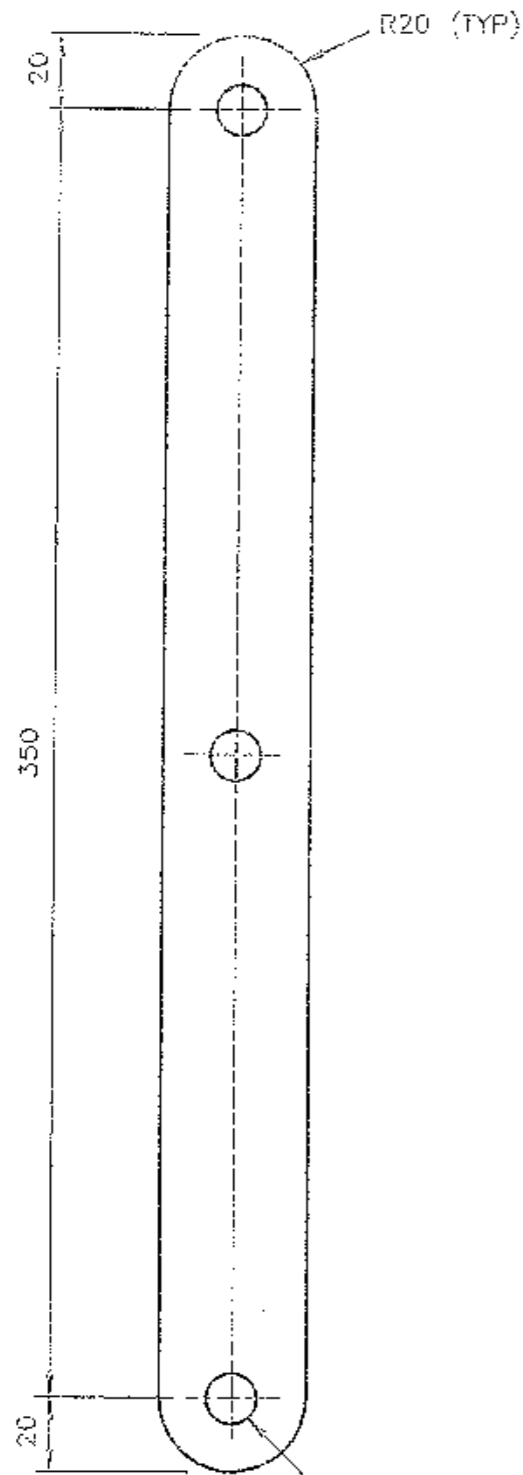
SCALE  
1 : 2

SUPERSEDES:  
DRAWN RVC 20-04-99  
CHECKED B.W.T. 30-4-99  
PASSED B. Taylor 30-7-99

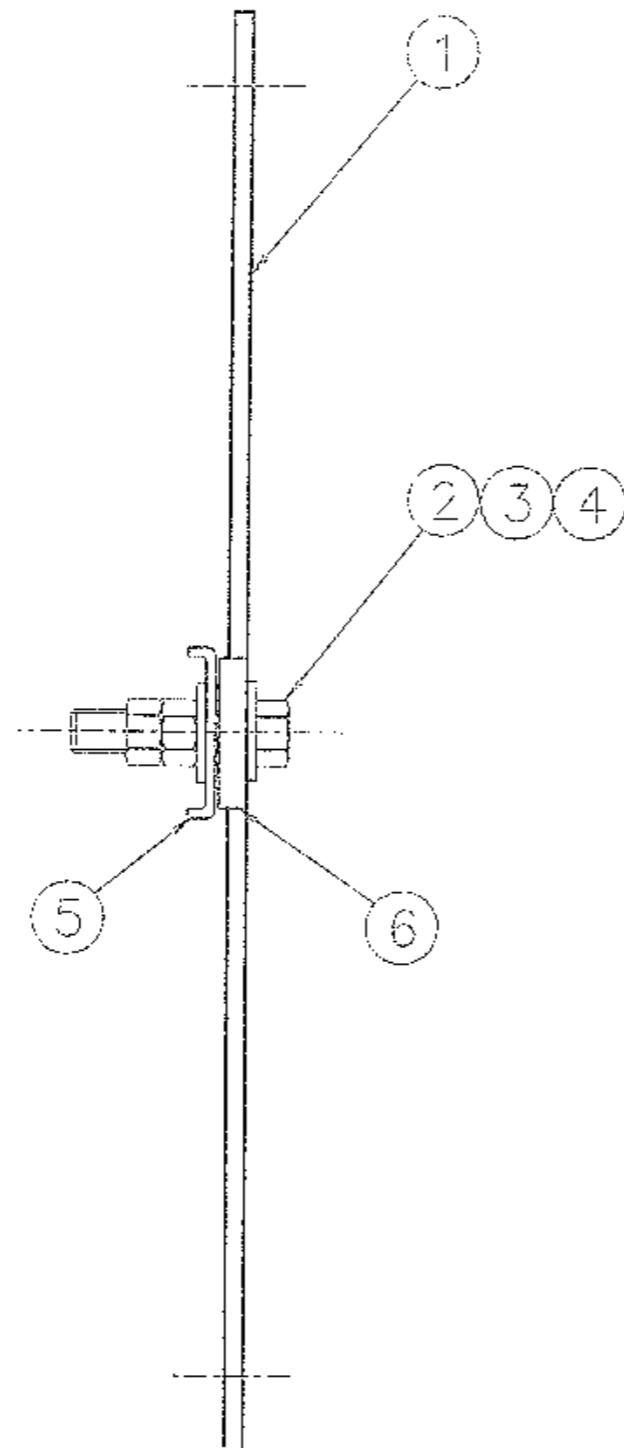
APPROVED:  
*[Signature]* 3-5-99  
MANAGER EQUIPMENT & STDS

ISSUE

VM012-14

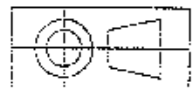


3 HOLES  $\phi 14$



SIDE VIEW

(DETAIL ASSEMBLY)



DIMENSIONS IN MILLIMETRES

### NOTES

1. DEBURR AND REMOVE SHARP EDGES AND CORNERS.
2. ALL ITEMS SHALL BE SUPPLIED AND FULLY ASSEMBLED (AS SHOWN) BY THE MANUFACTURER.
3. THE SPECIAL LOCK WASHER (ITEM 6) TO BE FITTED TO THE STRAP WITH THE STANDARD LOCK WASHER (ITEM 5), DIMPLE TO DIMPLE.
4. LOCK WASHERS TO BE MANUFACTURED TO RTA PLANS VM200-24 AND VM200-29.
5. TOLERANCE:  $\pm 1\text{mm}$

ITEM	DESCRIPTION	MATERIAL	FINISH	QTY
6	SPECIAL LOCK WASHER (SEE PLAN VM200-29)	STAINLESS STEEL	BLACK	1
5	STANDARD LOCK WASHER (SEE PLAN VM200-24)	STAINLESS STEEL	NATURAL	1
4	HEXAGON HEAD NUT M12 TO AS 1112	MILD STEEL	GALVANISED TO AS 1214	2
3	HEXAGON HEAD BOLT M12 X 50 TO AS 1111		TO AS 1214	2
2	FLAT WASHER M12 LARGE SERIES TO AS 1237		GALVANISED TO AS 4680	1
1	STEEL FLAT BAR 40 X 5 TO AS 3679			

A ORIGINAL ISSUE

REFERENCE DRAWINGS	
ASSEMBLY DETAILS	VM200-27
STD LOCK WASHER	VM200-24
SPECIAL LOCK WASHER	VM200-29
TEE-BAR 200mm LANT	VM012-14
RTA CAT NO 18230570	

ROADS AND TRAFFIC AUTHORITY OF NSW  
TRAFFIC SIGNALS

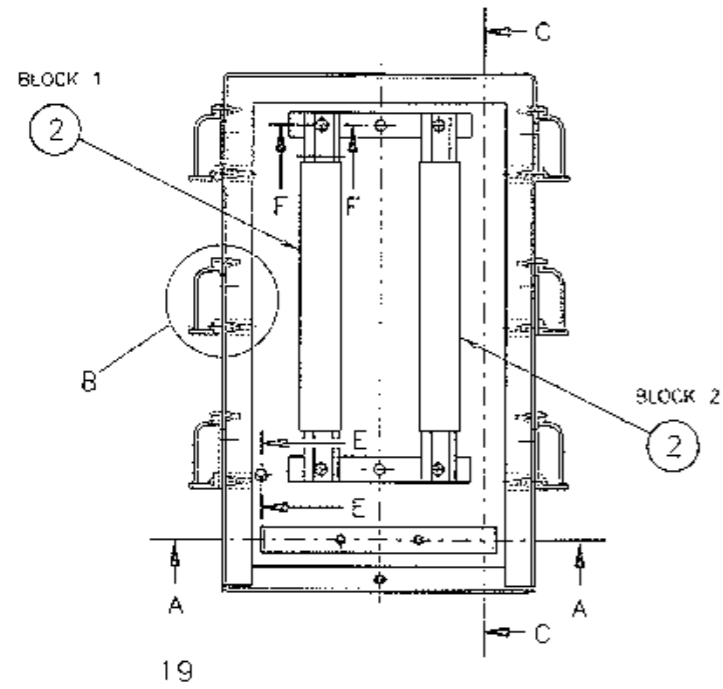
SCALE  
1 : 2

APPROVED:  
*[Signature]*  
MANAGER EQUIPMENT & STDS

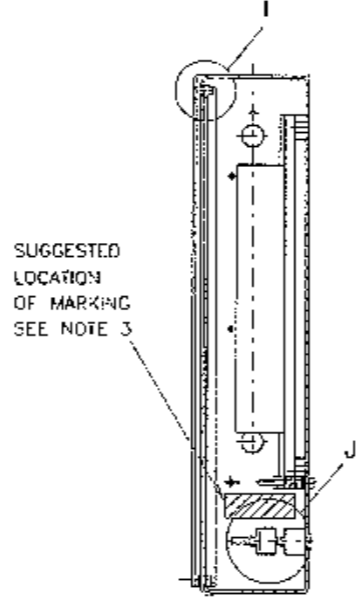
TEE-BAR STRAP  
FOR DUAL 300mm LANTERNS

SUPERSEDES:  
DRAWN RVC 03-05-99  
CHECKED *B. Taylor* 3.5.99  
PASSED *B. Taylor* 3.5.99

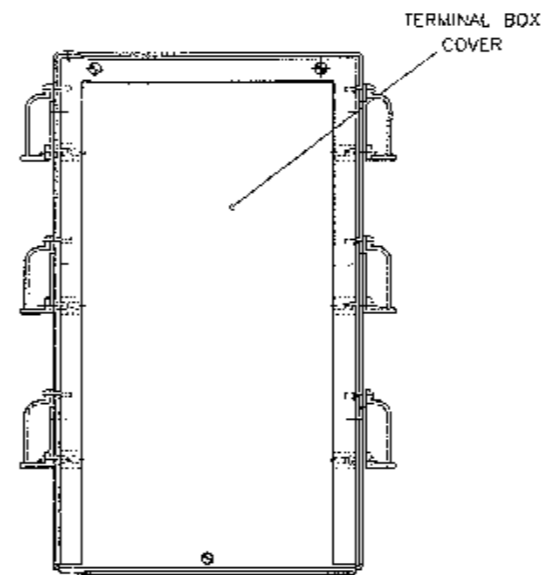
ISSUE A  
VM012-15



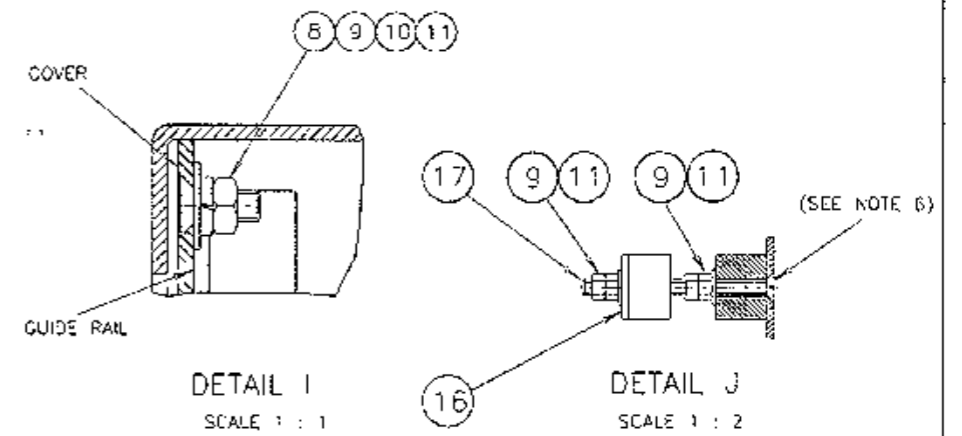
19  
FRONT ELEVATION  
(COVER REMOVED)



SECTION C-C



FRONT OF TERMINAL BOX WITH COVER

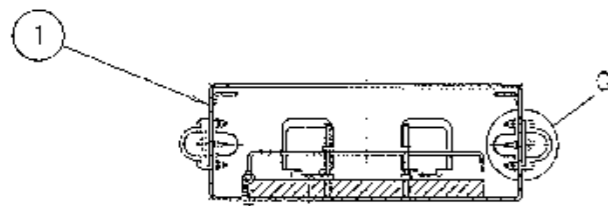


DETAIL I  
SCALE 1 : 1

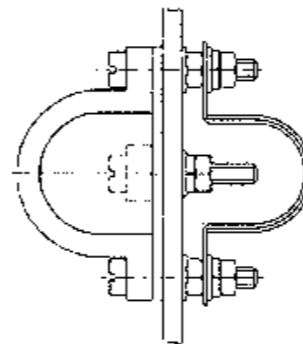
DETAIL J  
SCALE 1 : 2

NOTES

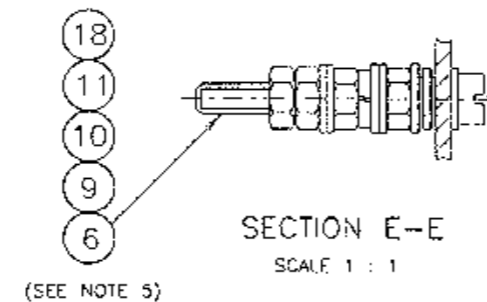
- SCREWS ON COVER TO BE FITTED AFTER COVER HAS BEEN INSERTED INTO GUIDE RAILS IN BOX.
- TERMINAL BOXES SHALL BE SUPPLIED FULLY ASSEMBLED AS SHOWN, EXCEPT 2 ONLY OF EACH ITEM 21 & 22 AND 3 ONLY OF EACH ITEM 9 & 11 AND 1 ONLY OF EACH ITEM 10 & 23 TO BE PACKED TOGETHER INTO ONE PLASTIC BAG & TAPED & BOUND SECURELY TO THE INSIDE OF THE TERMINAL BOX.
- MANUFACTURER'S IDENTIFICATION & DATE OF MANUFACTURE SHALL BE MARKED CLEARLY, INDELIBLY & WEATHER RESISTANT.
- EACH TERMINAL BOX SHALL BE SUPPLIED INDIVIDUALLY PACKED FOR PROTECTION IN TRANSPORT & CLEARLY MARKED EXTERNALLY WITH:
  - DESCRIPTION OF CONTENTS.
  - MANUFACTURER'S IDENTIFICATION.
  - RTA ORDER NUMBER.
  - RTA SUPPLY CATALOGUE NUMBER 18230607
- THE CONTACT SURFACE UNDER THE EARTH SCREW & THE INSIDE SURFACE AROUND THE HOLE IN THE BOTTOM OF THE BOX, SHALL BE FREE OF POWDER COAT TO ENSURE ELECTRICAL CONTINUITY.
- BEFORE ASSEMBLY, COAT THE M6 SCREW HEADS (ITEM 18) AND CSK HOLES ON THE BACK OF THE BOX WITH WATERPROOF SEALING COMPOUND AND LEAVE FLUSH.



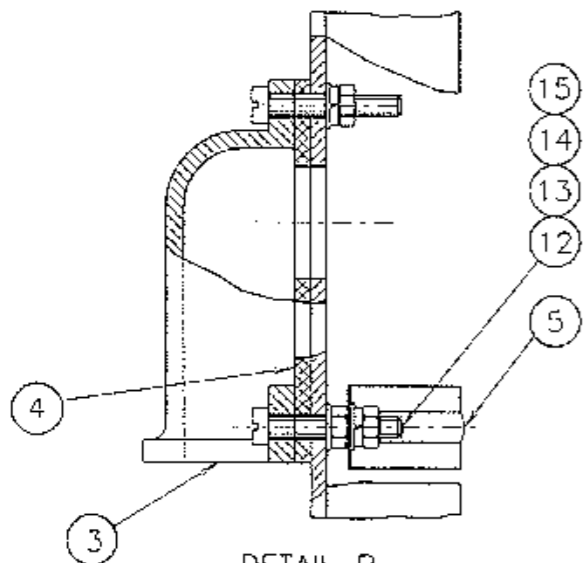
SECTION A-A



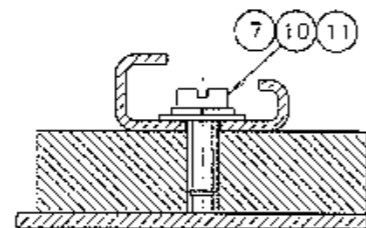
DETAIL G  
SCALE 1 : 1



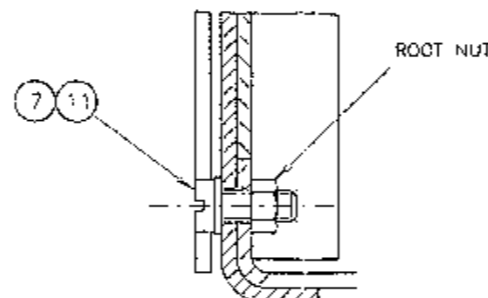
SECTION E-E  
SCALE 1 : 1



DETAIL B  
SCALE 1 : 1



SECTION F-F  
SCALE 1 : 1



DETAIL H  
SCALE 1 : 1

23	CHEESE HEAD SCREW M6 x 30	STAINLESS STEEL	NATURAL	1	TO AS1427
22	FLAT WASHER M10 (SEE NOTE 2)	MILD STEEL	HD GALV	2	TO AS1237
21	CORNER SCREW HEX HEAD M10 x 75 (SEE NOTE 2)	MILD STEEL	HD GALV	2	TO AS1395
20					
19					
18	SHAKEPROOF WASHER EXT TOOTH M6	STAINLESS STEEL	NATURAL	1	TO AS1966
17	COUNTERSUNK HEAD SCREW M6 x 75	STAINLESS STEEL	NATURAL	2	TO AS1427
16	CABLE CLAMPING BAR	AS PER DWG		1	TO VM015-17
15	SPRING WASHER FOR M4	STAINLESS STEEL	NATURAL	18	TO AS1966
14	FLAT WASHER FOR M4	STAINLESS STEEL	NATURAL	30	TO AS1237
13	HEX NUT M4	STAINLESS STEEL	NATURAL	30	TO AS1112
12	CHEESE HEAD SCREW M4 x 30	STAINLESS STEEL	NATURAL	18	TO AS1427
11	FLAT WASHER FOR M6	STAINLESS STEEL	NATURAL	20	TO AS1237
10	SPRING WASHER FOR M6	STAINLESS STEEL	NATURAL	8	TO AS1568
9	HEX NUT M6	STAINLESS STEEL	NATURAL	17	TO AS1112
8	COUNTERSUNK HEAD SCREW M6 x 16	STAINLESS STEEL	NATURAL	2	TO AS1427
7	CHEESE HEAD SCREW M6 x 16	STAINLESS STEEL	NATURAL	5	TO AS1427
6	CHEESE HEAD SCREW M6 x 50	STAINLESS STEEL	NATURAL	1	TO AS1427
5	CONDUIT SADDLE/CLAMP	ATS TYPE PM0513 OR APPROVED EQUIV		6	AVAILABLE FROM ALDRIDGE ELECTRICAL OR BCS PANCHO CONSULTANCY P/L
4	CABLE OUTLET GASKET	ATS TYPE PM0505 OR APPROVED EQUIV		6	
3	CABLE OUTLET COVER	ATS TYPE PM0511 OR APPROVED EQUIV		6	
2	TERMINAL BLOCK ASSEMBLY	AS PER DWG		1 PAIR	TO VM015-19
1	TERMINAL BOX	AS PER DWG		1	TO VM015-17
ITEM	DESCRIPTION	MATERIAL	FINISH	QTY	REMARKS

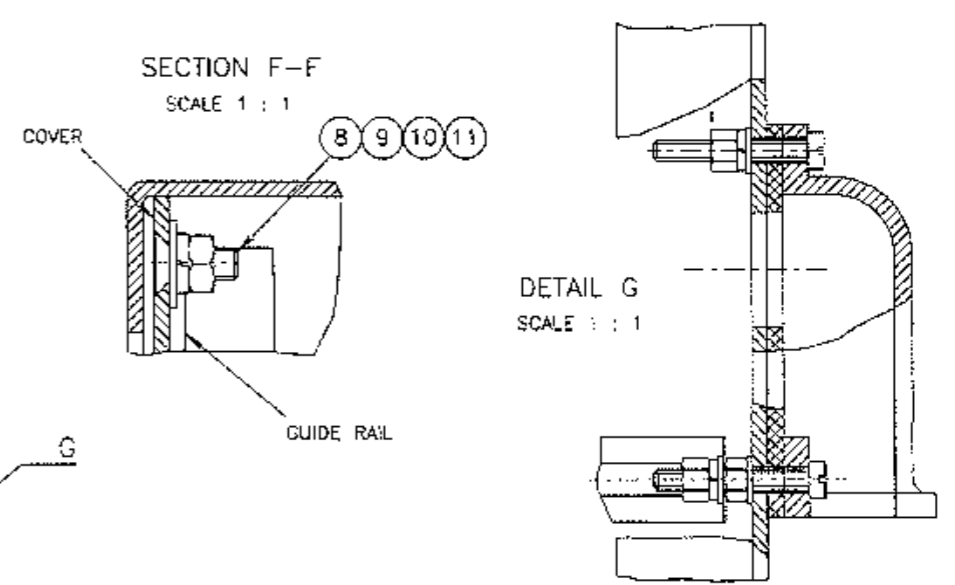
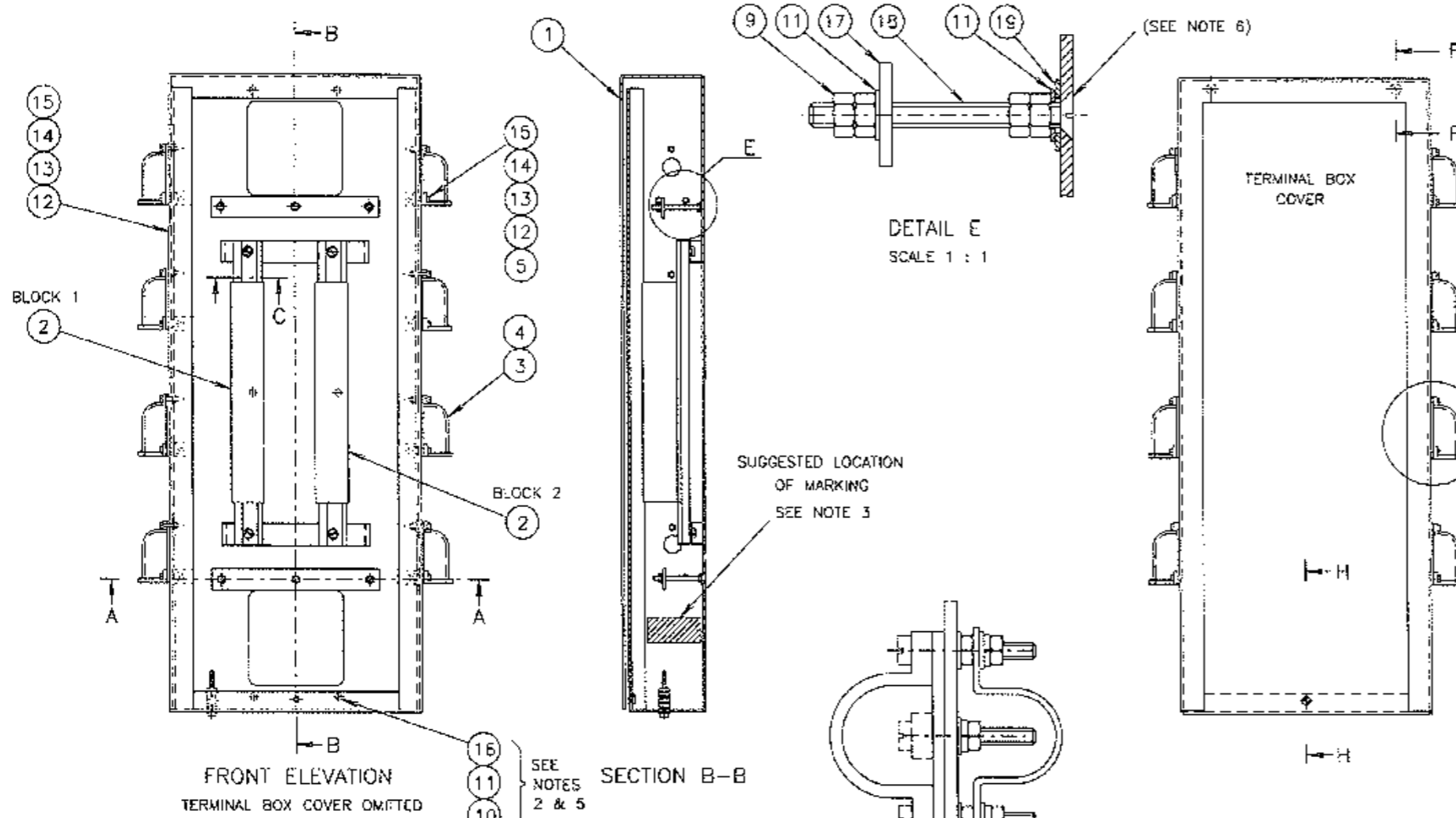
K ISSUE 19-09-87  
J 162381 DWG REDRAWN IN PARTS LIST PARACH REPLACES EXCELISOR. QUANTITY/LENGTH. SOME SCREWS NUTS & WASHERS CHANGED & SOME WERE BRASS NICKEL PLATED. REF TO M6 THIN NUTS DELETED. PARTS LIST HAS CHANGED ITEM 17 WAS IN MECH DRAWING VM015-17. NOTE 6 & ITEM 18 ADDED.  
RVC BWT  
1. ISSUED 10-03-04  
DETAIL 5 ITEMS 19 & 20 DELETED. ITEM 23 ADDED. QTY OF ITEMS 9, 10, 11, 12 AND 14 WERE 14, 17, 34 AND 34 RESPECTIVELY. C.B.

REFERENCE DRAWINGS	DRAWN & DWG
TERMINAL BOX VM015-17	CHECKED RB 21-02-83
GEN ARRANGMT VM015-18	
TERM BLOCK ASSY VM015-19	PASSED BWT 13-03-84
LOWER LANT ASSY ON WOODEN POLES VM015-16	APPROVED
SUPPLY CAT NO 18230607	F HULSCHER DATE 21-05-1984

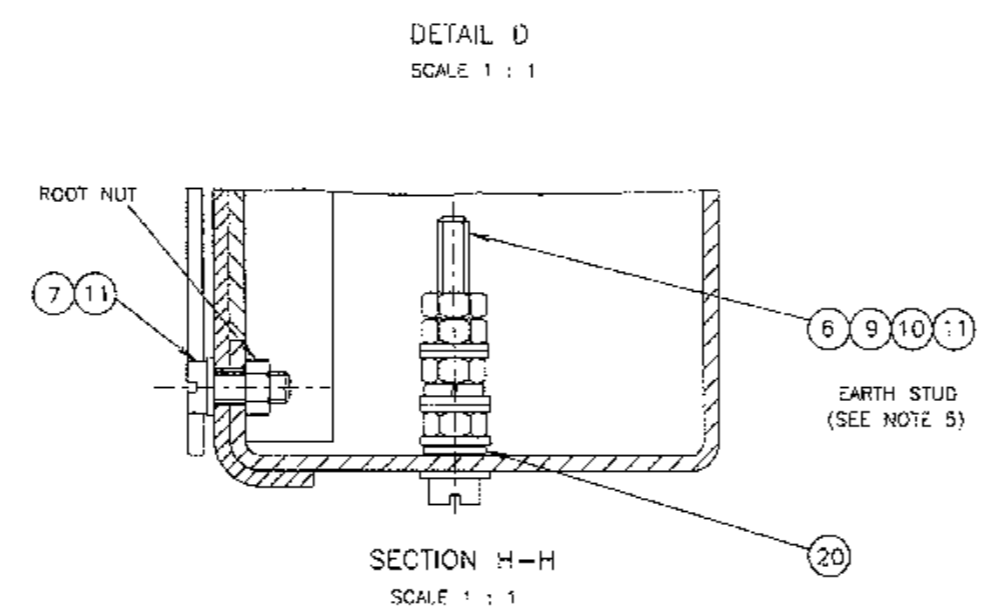
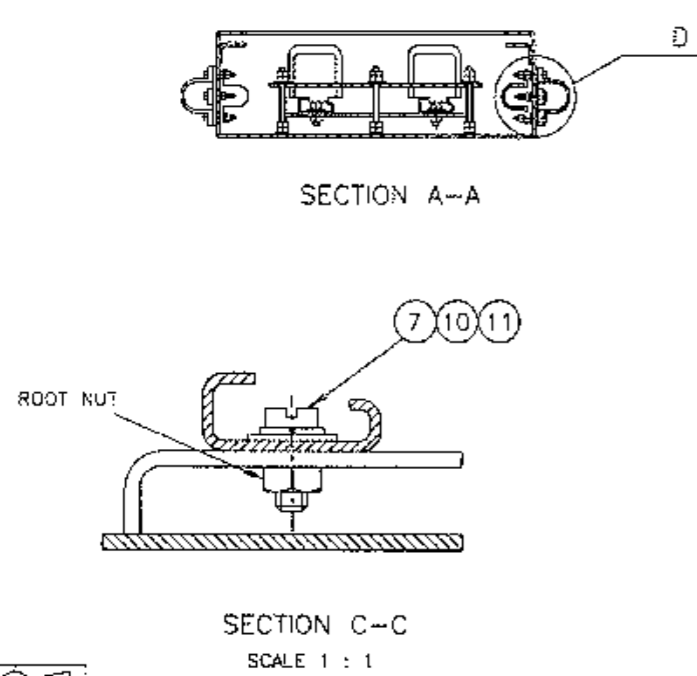
ROADS AND TRAFFIC AUTHORITY NSW  
TRAFFIC SIGNALS

ASSEMBLY DETAILS OF  
TERMINAL BOX ON WOODEN POLES

SHEET SIZE	FILE NO	NO OF SHEETS	SHEET NO
A2			
SCALE 1 : 5 UNLESS STATED OTHERWISE			
SUPERSEDES ISSUE		ISSUE	
REG NO		VM015-21	



- NOTES**
- SCREWS ON THE COVER TO BE FITTED AFTER THE COVER HAS BEEN INSERTED INTO THE GUIDE RAILS IN THE BOX.
  - TERMINAL BOXES SHALL BE SUPPLIED FULLY ASSEMBLED AS SHOWN, EXCEPT 6 ONLY OF EACH ITEM 10, 11 & 16 TO BE PACKED TOGETHER INTO ONE PLASTIC BAG AND TAPED AND BOUND SECURELY TO THE INSIDE OF THE TERMINAL BOX.
  - MANUFACTURERS IDENTIFICATION & DATE OF MANUFACTURE SHALL BE MARKED CLEARLY, INDELIBLY AND WEATHER RESISTANT.
  - EACH TERMINAL BOX SHALL BE SUPPLIED INDIVIDUALLY PACKED FOR PROTECTION IN TRANSPORT AND CLEARLY MARKED EXTERNALLY WITH:
    - DESCRIPTION OF CONTENTS.
    - MANUFACTURER'S IDENTIFICATION.
    - RIA ORDER NUMBER.
    - RIA SUPPLY CATALOGUE NUMBER 18230623.
  - THE CONTACT SURFACE UNDER THE EARTH SCREW (ITEM 6) AND ASSOCIATED WASHERS AS WELL AS THE E X BOX MOUNTING SCREWS AND WASHERS SHALL BE FREE OF POWDER COATING ON THE INSIDE OF THE BOX TO ENSURE ELECTRICAL CONTINUITY.
  - BEFORE ASSEMBLY, COAT THE M6 SCREW HEADS (ITEM 18) AND CSK HOLES ON THE BACK OF THE BOX WITH WATERPROOF SEALING COMPOUND AND LEAVE FLUSH.



ITEM	DESCRIPTION	MATERIAL	FINISH	QTY	REMARKS
20	SHAKEPROOF WASHER EXTERNAL TOOTH	STAINLESS STEEL	NATURAL	1	TO AS1969
19	FLAT WASHER FOR M6	STAINLESS STEEL	NATURAL	6	TO AS1237
18	COUNTERSUNK HEAD SCREW M6 X 65	STAINLESS STEEL	NATURAL	6	TO AS1427
17	CABLE CLAMPING STRAP	AS PER DWG		1	TO VM015-20
16	HEX HEAD SET SCREW M6 X 20	STAINLESS STEEL	NATURAL	6	TO AS1111
15	SPRING WASHER FOR M4	STAINLESS STEEL	NATURAL	24	TO AS1968
14	FLAT WASHER FOR M4	STAINLESS STEEL	NATURAL	48	TO AS1237
13	HEX NUT M4	STAINLESS STEEL	NATURAL	48	TO AS1112
12	CHEESE HEAD SCREW M4 X 30	STAINLESS STEEL	NATURAL	24	TO AS1427
11	FLAT WASHER FOR M6	STAINLESS STEEL	NATURAL	37	TO AS1237
10	SPRING WASHER FOR M6	STAINLESS STEEL	NATURAL	13	TO AS1968
9	HEX NUT M6	STAINLESS STEEL	NATURAL	30	TO AS1112
8	COUNTERSUNK HEAD SCREW M6 X 16	STAINLESS STEEL	NATURAL	2	TO AS1427
7	CHEESE HEAD SCREW M6 X 16	STAINLESS STEEL	NATURAL	5	TO AS1427
6	CHEESE HEAD SCREW M6 X 50	STAINLESS STEEL	NATURAL	1	TO AS1427
5	CONDUIT SADDLE/CLAMP	ATS TYPE PM0513 OR APPROVED EQUIV		8	AVAILABLE FROM ALDRIDGE ELECT INDO OR BOB PANICK CONSULTANCY P/L
4	CABLE OUTLET GASKET	ATS TYPE PG0105 OR APPROVED EQUIV		8	
3	CABLE OUTLET COVER	ATS TYPE PM0511 OR APPROVED EQUIV		8	
2	TERMINAL BLOCK ASSEMBLY	AS PER DWG		1 PAIR	TO VM015-19
1	TERMINAL BOX	AS PER DWG		1	TO VM015-20

ISSUE '1' 18-09-87  
 JI TC2381 DWG RE-DRAWN.  
 IN PARTS LIST PANICK  
 REPLACES EXCELSIOR.  
 QUANTITY/LENGTH SOME  
 SCREWS NUTS & WASHERS  
 CHANGED & SOME WERE  
 BRASS NICKEL PLATED.  
 REF TO M6 THIN NUTS  
 DELETED. PARTS LIST  
 NOS CHANGED. ITEMS  
 18 & 19 AND NOTE 6  
 TRANSFERRED FROM DWG  
 VM015-20. ITEM 20  
 ADDED TO EARTH SCREW.  
 RVC/EB BWT

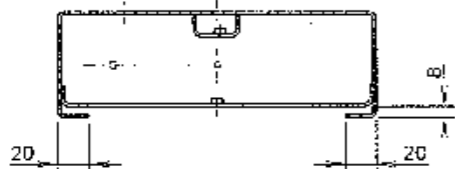
ISSUE 'M' 11-12-2000  
 JI TC3084 QTY'S OF ITEMS  
 3, 4 & 5 WERE 6. QTY'S  
 OF ITEMS 12 AND 15  
 WERE 18. ITEMS 13 & 14  
 WERE 30. POSITION OF  
 CABLE COVERS (ITEM 3)  
 ALTERED.  
 RVC

REFERENCE DRAWINGS	DRAWN K OUNG
MECH DETAIL OF BOX VMD15-20	CHECKED RB
TERMINAL BLOCK VMD15-19	PASSEC BWT 18-05-84
	APPROVED F HULSCHER DATE 21-05-1984
SUPPLY CAT NO 18230623	

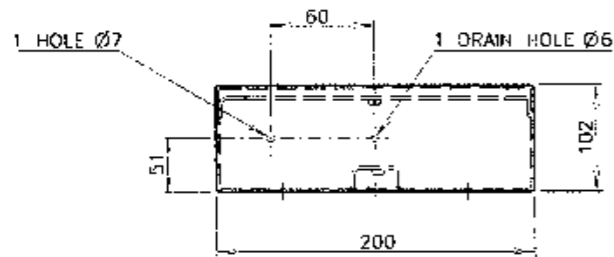
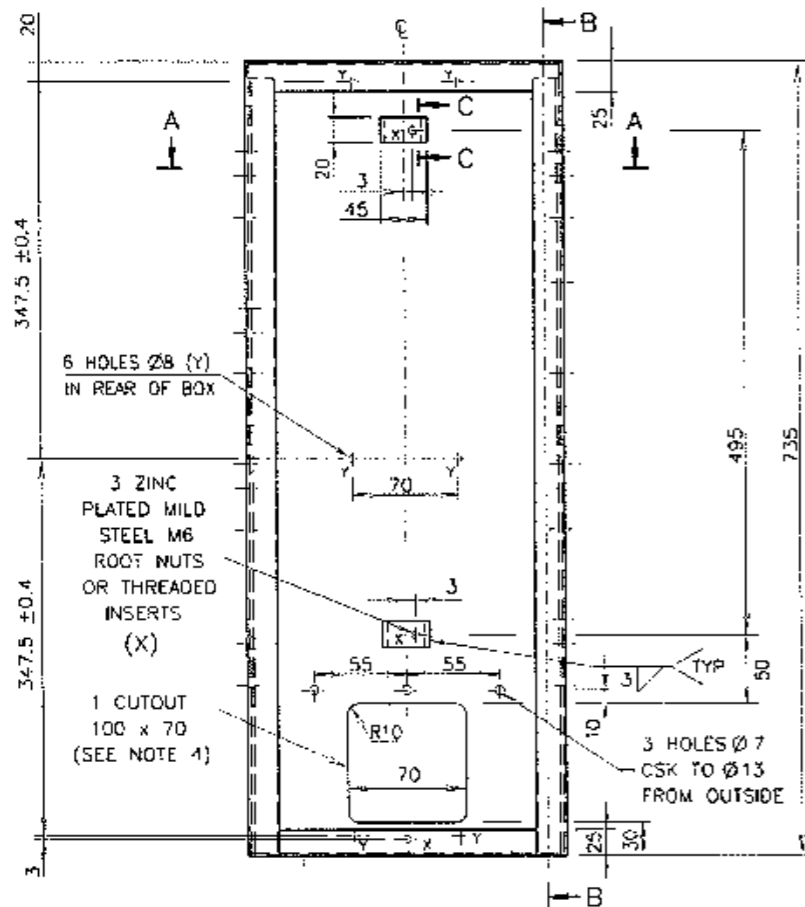
ROADS AND TRAFFIC AUTHORITY NSW  
 TRAFFIC SIGNALS

ASSEMBLY DETAILS  
 OF TERMINAL BOX FOR MAST ARMS  
 AND TYPE 6 POST

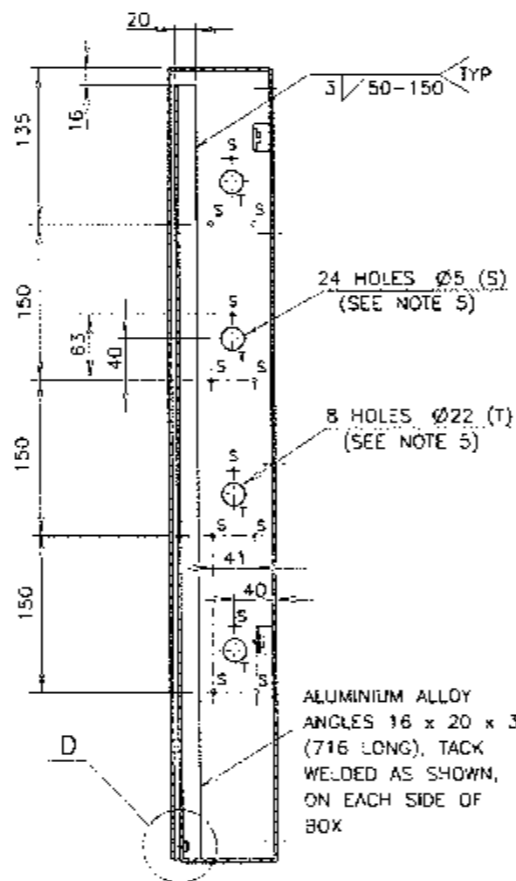
SHEET SIZE A2	FILE NO	SCALE 1:5 OR AS SHOWN	SHEET NO
SUPERSEDES	ISSUE K	ISSUE <input checked="" type="checkbox"/> M	
REG NO	VM015-22		



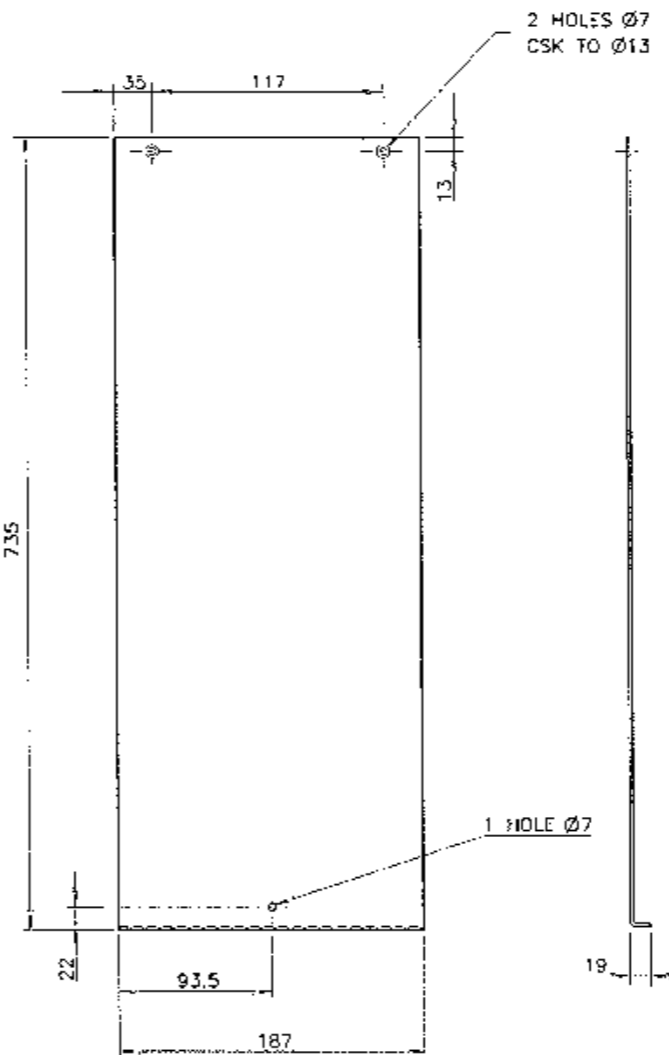
SECTION A-A



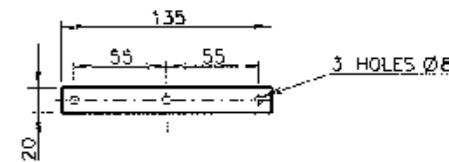
DIMENSIONS IN MILLIMETRES



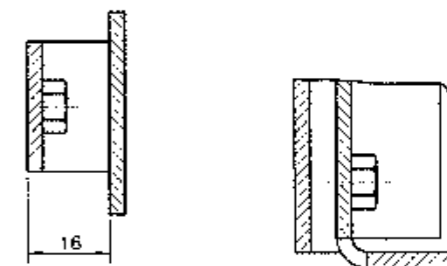
SECTION B-B



SLIDING COVER DETAILS



CABLE CLAMPING STRAP DETAILS  
QUANTITY REQUIRED: 1 PER BOX



SECTION C-C  
1 : 1

DETAIL D  
1 : 1

**MATERIAL:** 3mm ALUMINIUM ALLOY 5052 H34 OR 5152 H34, UNLESS OTHERWISE STATED.

**FINISH:** MATERIAL TO BE THOROUGHLY CLEANED, ETCHED, ALUMINIUM CHROMATED & DRIED BEFORE THE APPLICATION OF A POLYESTER POWDER COATING OF 50µm MINIMUM THICKNESS. THE COATING HAS TO HAVE A SATIN-SILVER FINISH & THE FULL PROCESS OF SUCH A COATING IS SUBJECT TO APPROVAL BY THE AUTHORITY. THE POWDER COATING IS ONLY NECESSARY ON EXTERNAL SURFACES. THREADED HOLES AND STUDS ARE TO BE PROTECTED DURING THE COATING PROCEDURE.

**TOLERANCE:** UNLESS OTHERWISE SHOWN  
±0.4mm UP TO AND INCLUDING 120  
±0.8mm ABOVE 120

NOTES

1. BOX IS TO BE OF FOLDED & WELDED CONSTRUCTION.
2. ALL WELDING TO BE 3mm CONTINUOUS FILLET, UNLESS OTHERWISE STATED.
3. EXTERNAL WELDS TO BE GROUND FLUSH, SMOOTH & WEATHERPROOF.
4. ALL SHARP CORNERS TO BE REMOVED & EDGES OF CUTOUTS TO BE ROUNDED.
5. FOUR CABLE ENTRIES TO BE IN EACH SIDE OF BOX (DRILLING DETAILS SHOWN IN SECTION B-B).
6. THE AREA SURROUNDING THE 6 x Ø8 HOLES (Y) AND THE Ø7 HOLE IN THE BOTTOM OF THE BOX TO BE FREE OF POWDER COATING/OVERSPRAY TO A DIA OF 15mm ON THE INSIDE OF THE BOX TO ENSURE EARTH CONTINUITY.



A ORIGINAL ISSUE  
B ISSUE 23-08-2016  
TERMINAL BLOCK ASSEMBLY  
REFERENCE WAS VM015-13  
DE BWT

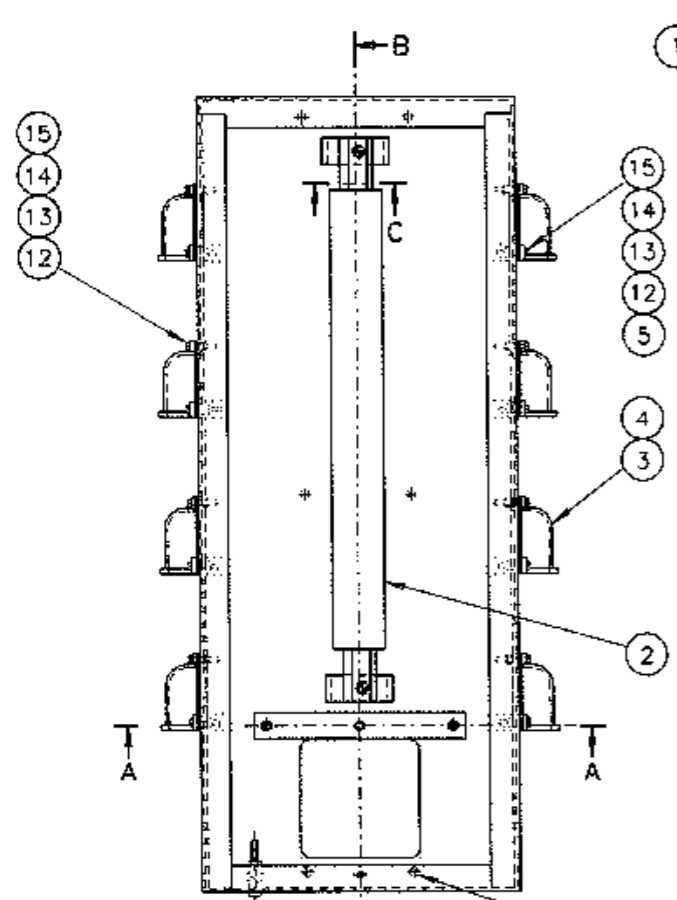
REFERENCE DRAWINGS	DRAWN LC. 12-07-13
TERM BLOCK ASSY VM015-43	CHECKED BWT.13-07-13
TERM BOX ASSEMBLY VM015-12	PASSED BWT.13-07-13
	APPROVED
	S. SRIVASTAVA
	0411 13-07-13

ROADS & MARITIME SERVICES, NSW  
TRAFFIC SIGNALS

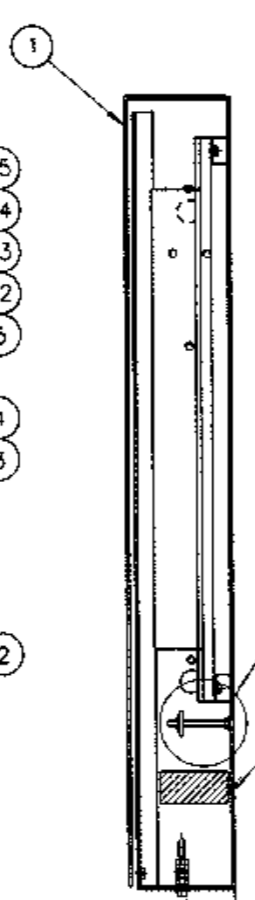
MECHANICAL DETAILS OF TERMINAL BOX  
FOR A TYPE 8 POST

SHEET SIZE A2	FILE NO	SCALE	SHEET NO
SCALE NTS. - UNLESS STATED OTHERWISE			
SUPERSEDES -		ISSUE / B	
REG NO		VM015-41	

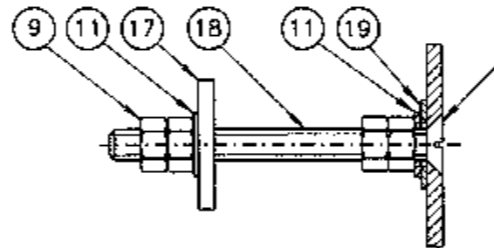




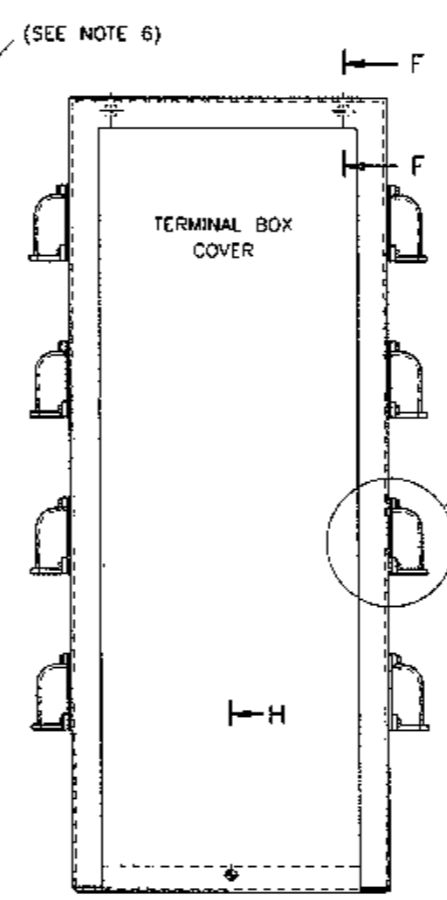
FRONT ELEVATION  
TERMINAL BOX COVER OMITTED



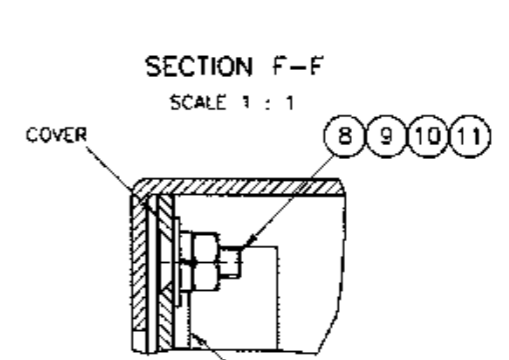
SECTION B-B



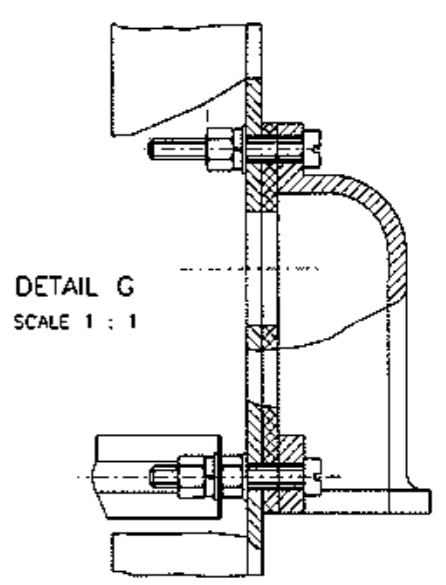
DETAIL E  
SCALE 1 : 1



FRONT OF TERMINAL BOX  
WITH COVER IN PLACE



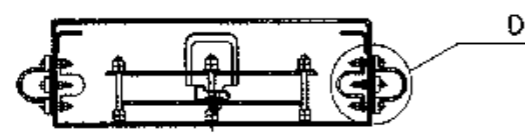
SECTION F-F  
SCALE 1 : 1



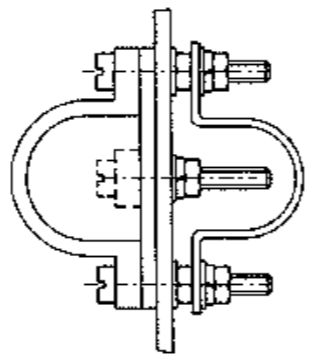
DETAIL G  
SCALE 1 : 1

NOTES

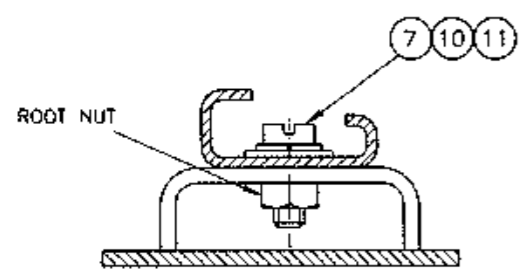
- SCREWS ON THE COVER TO BE FITTED AFTER THE COVER HAS BEEN INSERTED INTO THE GUIDE RAILS IN THE BOX.
- TERMINAL BOXES SHALL BE SUPPLIED FULLY ASSEMBLED AS SHOWN, EXCEPT 6 ONLY OF EACH ITEM 10, 11 & 16 TO BE PACKED TOGETHER INTO ONE PLASTIC BAG AND TAPED AND BOUND SECURELY TO THE INSIDE OF THE TERMINAL BOX.
- MANUFACTURERS IDENTIFICATION & DATE OF MANUFACTURE SHALL BE MARKED CLEARLY, INDELIBLY AND WEATHER RESISTANT.
- EACH TERMINAL BOX SHALL BE SUPPLIED INDIVIDUALLY PACKED FOR PROTECTION IN TRANSPORT AND CLEARLY MARKED EXTERNALLY WITH:
  - DESCRIPTION OF CONTENTS.
  - MANUFACTURER'S IDENTIFICATION.
  - RMS ORDER NUMBER.
  - RMS SUPPLY CATALOGUE NUMBER 18234552.
- THE CONTACT SURFACE UNDER THE EARTH SCREW (ITEM 6) AND ASSOCIATED WASHERS AS WELL AS THE 6 X BOX MOUNTING SCREWS AND WASHERS SHALL BE FREE OF POWDER COATING ON THE INSIDE OF THE BOX TO ENSURE ELECTRICAL CONTINUITY.
- BEFORE ASSEMBLY, COAT THE M6 SCREW HEADS (ITEM 18) AND CSK HOLES ON THE BACK OF THE BOX WITH WATERPROOF SEALING COMPOUND AND LEAVE FLUSH.



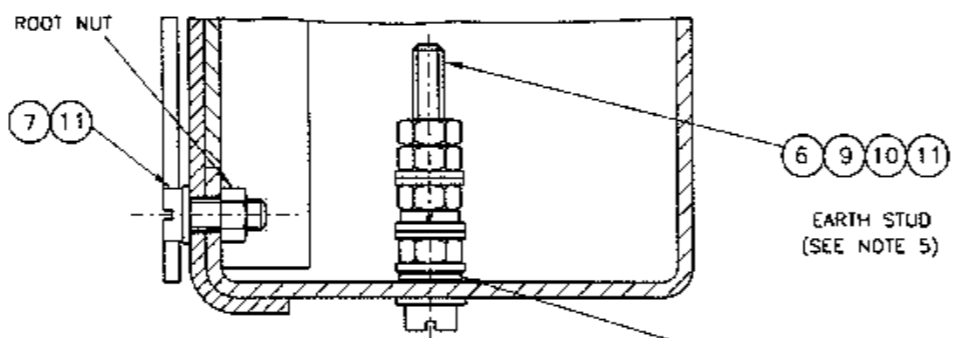
SECTION A-A



DETAIL D  
SCALE 1 : 1



SECTION C-C  
SCALE 1 : 1



SECTION H-H  
SCALE 1 : 1

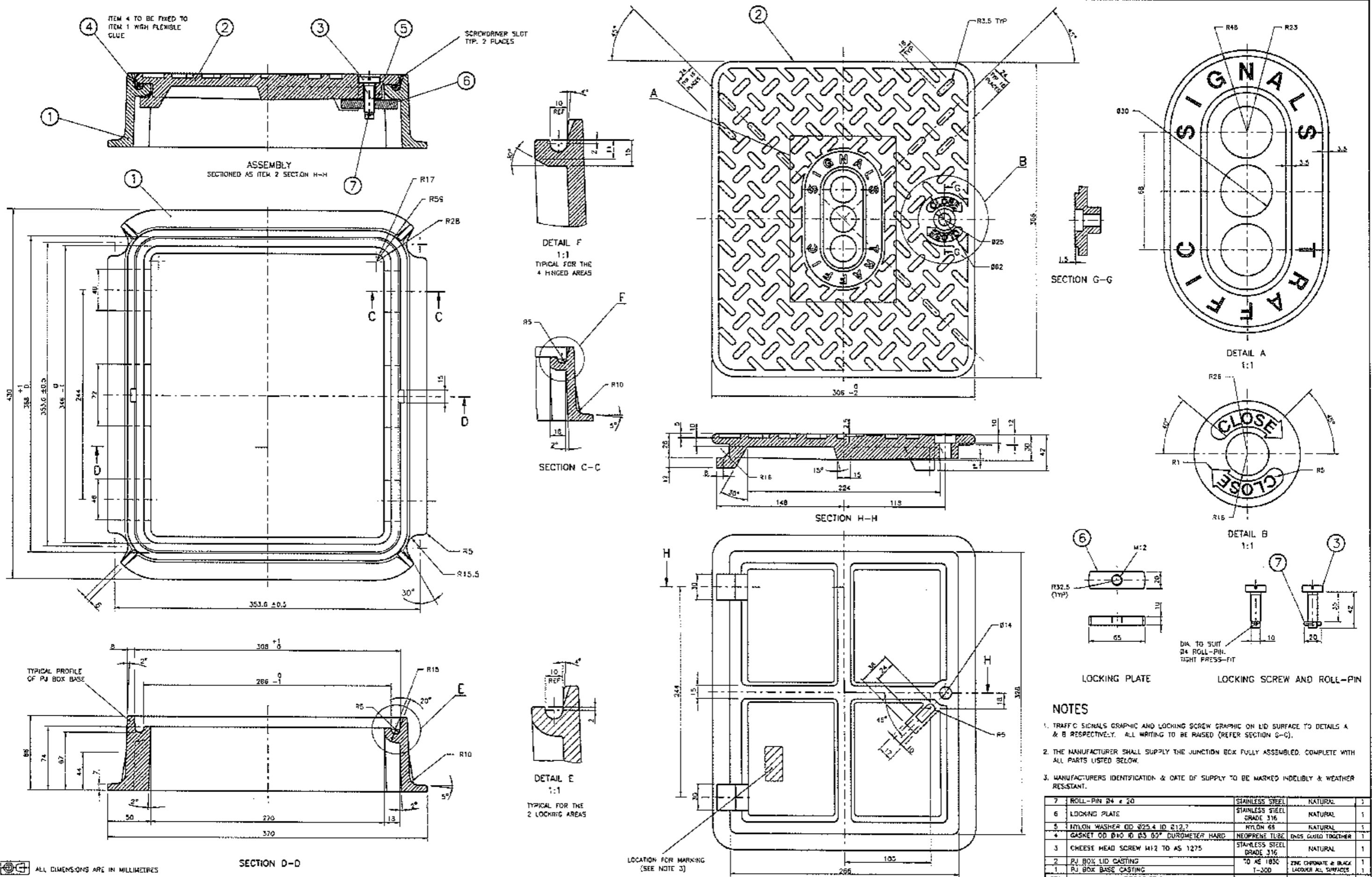
ITEM	DESCRIPTION	MATERIAL	FINISH	QTY	REMARKS
20	SHAKEPROOF WASHER EXTERNAL TOOTH	STAINLESS STEEL	NATURAL	1	TO AS1969
19	FLAT WASHER FOR M8	STAINLESS STEEL	NATURAL	3	TO AS1237
18	COUNTERSUNK HEAD SCREW M6 X 65	STAINLESS STEEL	NATURAL	3	TO AS1427
17	CABLE CLAMPING STRAP	AS PER DWG		1	TO VM015-41
16	HEX HEAD SET SCREW M5 X 20	STAINLESS STEEL	NATURAL	6	TO AS1111
15	SPRING WASHER FOR M4	STAINLESS STEEL	NATURAL	24	TO AS1968
14	FLAT WASHER FOR M4	STAINLESS STEEL	NATURAL	40	TO AS1237
13	HEX NUT M4	STAINLESS STEEL	NATURAL	40	TO AS1112
12	CHEESE HEAD SCREW M4 X 30	STAINLESS STEEL	NATURAL	24	TO AS1427
11	FLAT WASHER FOR M6	STAINLESS STEEL	NATURAL	23	TO AS1237
10	SPRING WASHER FOR M6	STAINLESS STEEL	NATURAL	11	TO AS1968
9	HEX NUT M6	STAINLESS STEEL	NATURAL	18	TO AS1112
8	COUNTERSUNK HEAD SCREW M5 X 16	STAINLESS STEEL	NATURAL	2	TO AS1427
7	CHEESE HEAD SCREW M6 X 15	STAINLESS STEEL	NATURAL	3	TO AS1427
6	CHEESE HEAD SCREW M6 X 50	STAINLESS STEEL	NATURAL	1	TO AS1427
5	CONDUIT SADDLE/CLAMP	ATS TYPE PM0513 OR APPROVED EQUIV		8	AVAILABLE FROM ALDRIDGE TRAFFIC OR BOB PANICH TRAFFIC
4	CABLE OUTLET GASKET	ATS TYPE PG0105 OR APPROVED EQUIV		6	
3	CABLE OUTLET COVER	ATS TYPE PM0511 OR APPROVED EQUIV		6	
2	TERMINAL BLOCK ASSEMBLY	AS PER DWG		1	TO VM015-43
1	TERMINAL BOX	AS PER DWG		1	TO VM015-41

A ORIGINAL ISSUE  
B ISSUE 08-12-2015  
C ISSUE 23-08-2016  
D ISSUE 23-08-2016

REFERENCE DRAWINGS  
MECH DETAIL OF BOX VM015-41  
TERMINAL BLOCK VM015-43  
DRAWN L. CLAY  
CHECKED BWT.  
PASSED BWT 10-07-13  
APPROVED S. SRIVASTAVA  
DATE 12-07-2013  
SUPPLY CAT NO 18234552

ROADS AND MARITIME SERVICES  
TRAFFIC SIGNALS  
ASSEMBLY DETAILS OF  
TERMINAL BOX FOR TYPE 8 POST

SHEET SIZE A2  
FILE NO  
SCALE NTS OR AS SHOWN  
SHEET NO  
SUPERSEDES -  
ISSUE A/C  
REG NO  
VM015-42



**NOTES**

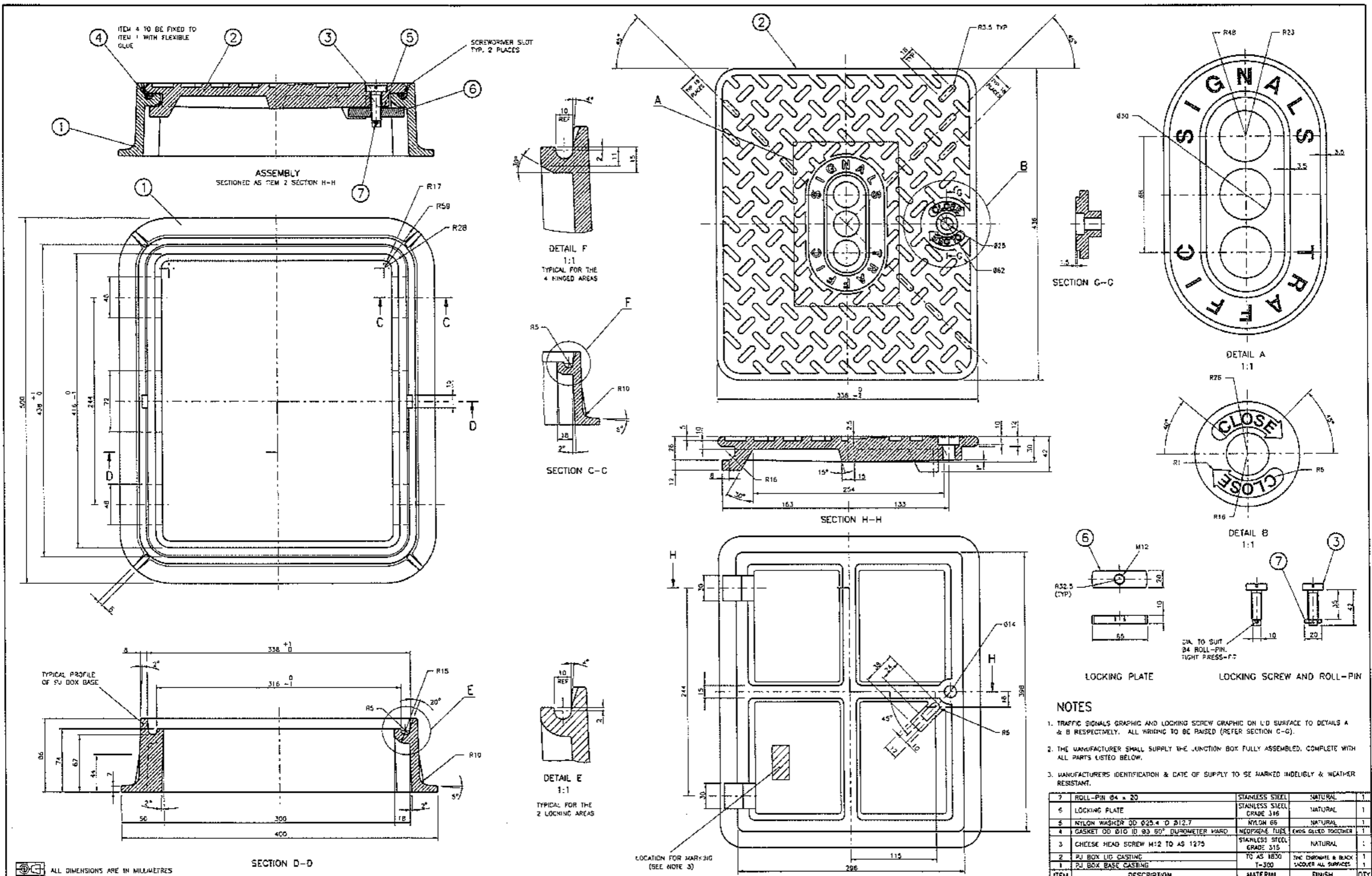
1. TRAFFIC SIGNALS GRAPHIC AND LOCKING SCREW GRAPHIC ON LID SURFACE TO DETAILS A & B RESPECTIVELY. ALL WRITING TO BE RAISED (REFER SECTION G-G).
2. THE MANUFACTURER SHALL SUPPLY THE JUNCTION BOX FULLY ASSEMBLED, COMPLETE WITH ALL PARTS LISTED BELOW.
3. MANUFACTURERS IDENTIFICATION & DATE OF SUPPLY TO BE MARKED INDELIBLY & WEATHER RESISTANT.

ITEM	DESCRIPTION	MATERIAL	FINISH	QTY
7	ROLL-PIN Ø4 x 20	STAINLESS STEEL	NATURAL	1
6	LOCKING PLATE	STAINLESS STEEL GRADE 316	NATURAL	1
5	NYLON WASHER OD Ø25.4 ID Ø12.7	NYLON 66	NATURAL	1
4	GASKET OD Ø110 ID Ø53 65° DUROMETER HARD	NEOPRENE TUBE	ENDS GUESED TOGETHER	1
3	CHEESE HEAD SCREW M12 TO AS 1275	STAINLESS STEEL GRADE 316	NATURAL	1
2	PJ BOX LID CASTING	TO AS 1030	ZINC CHROMATE & BLACK LACQUER ALL SURFACES	1
1	PJ BOX BASE CASTING	T-300		1

ALL DIMENSIONS ARE IN MILLIMETRES

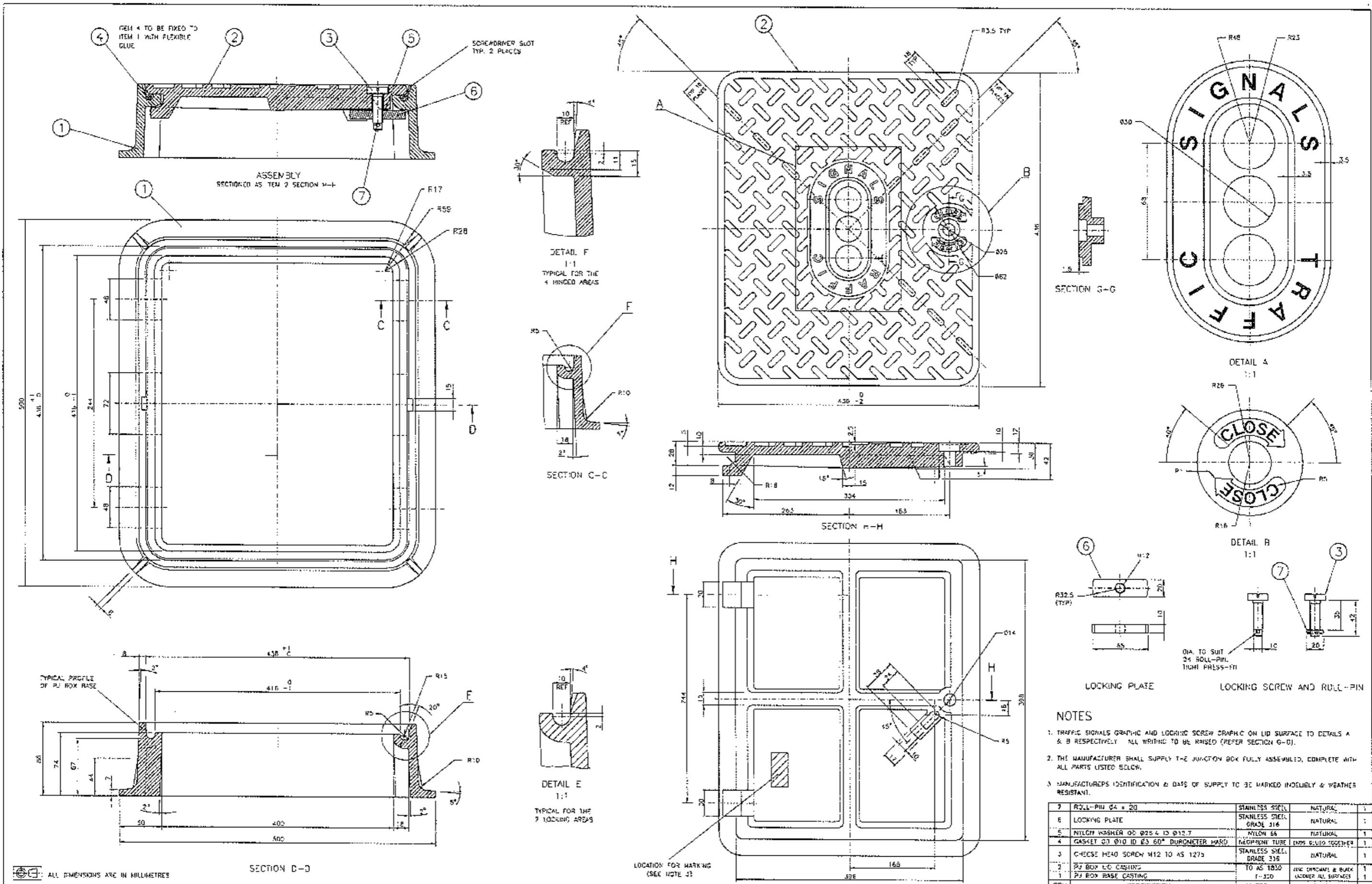
0 ISSUE 03-04-2000  
 4/1 T2360  
 PLAN PROGRAMMER: DNT  
 DRAWN BY: DNT  
 E ISSUE 12-04-2006  
 LOCKING PLATE (ITEM 6)  
 WAS 25mm WIDE.  
 BR  
 F ISSUE 02-12-2006  
 SUPPLY CAT NO ADDED.  
 BR

REFERENCE DRAWINGS	DRAWN BY HOA 2/8/99	ROADS AND TRAFFIC AUTHORITY OF NSW		SHEET SIZE	FILE NO	SCALE	SHEET NO
GEN ARRANGEMENT VC207-4	CHECKED BY: 10/8/99	TRAFFIC SIGNALS		A1	77M-477	1:2 OR AS SHOWN	
	PASSED BY TAYLOR 16/8/99	PAVEMENT JUNCTION BOX CASTING		SUPERSEDES ISSUE C	ISSUE 02/F		
RTA SUPPLY CAT NO 7001 0763	DATE 1989-08-18			REG NO	VM016-10		



- NOTES**
- TRAFFIC SIGNALS GRAPHIC AND LOCKING SCREW GRAPHIC ON L/D SURFACE TO DETAILS A & B RESPECTIVELY. ALL WRITING TO BE RAISED (REFER SECTION C-G).
  - THE MANUFACTURER SHALL SUPPLY THE JUNCTION BOX FULLY ASSEMBLED, COMPLETE WITH ALL PARTS LISTED BELOW.
  - MANUFACTURERS IDENTIFICATION & DATE OF SUPPLY TO BE MARKED INDELIBLY & WEATHER RESISTANT.
- | ITEM | DESCRIPTION                            | MATERIAL                  | FINISH                                    | QTY |
|------|--|---------------------------|---|-----|
| 7    | ROLL-PIN Ø4 x 20                       | STAINLESS STEEL           | NATURAL                                   | 1   |
| 6    | LOCKING PLATE                          | STAINLESS STEEL GRADE 316 | NATURAL                                   | 1   |
| 5    | NYLON WASHER ØD Ø25.4 Ø 212.7          | NYLON 66                  | NATURAL                                   | 1   |
| 4    | GASKET ØD Ø10 ID Ø3 60° DUROMETER HARD | NEOPRENE TUBE             | ENOS GLUED TOGETHER                       | 1   |
| 3    | CHEESE HEAD SCREW M12 TO AS 1279       | STAINLESS STEEL GRADE 316 | NATURAL                                   | 1   |
| 2    | PJ BOX LID CASTING                     | TO AS 1830                | ZINC CHROME & BLACK SMOOTHER ALL SURFACES | 1   |
| 1    | PJ BOX BASE CASTING                    | T-300                     | T-300                                     | 1   |

A ORIGINAL ISSUE B ISSUE 05-12-2006 DIM ENLARGED TWO LOCKING POINTS WAS 314 mm. SHW	REFERENCE DRAWINGS GEN. ARRANGEMENT V002-1 STANDARD PJ BOX V0016-10	DRAWN BY 18-04-06 CHECKED D. TAYLOR 09-05-06 PASSED G. TAYLOR 09-05-06 APPROVED S. SRIVASTAVA DATE 2008-06-29	ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS LARGE-TYPE PAVEMENT JUNCTION BOX CASTING	SHEET SIZE A1	FILE NO 77M-477	SCALE NTS OR AS SHOWN	SHEET NO VM016-11
	RTA SUPPLY CAT NO 7001 0764			SUPERSEDES REG NO	ISSUE A   B		
	ALL DIMENSIONS ARE IN MILLIMETRES						

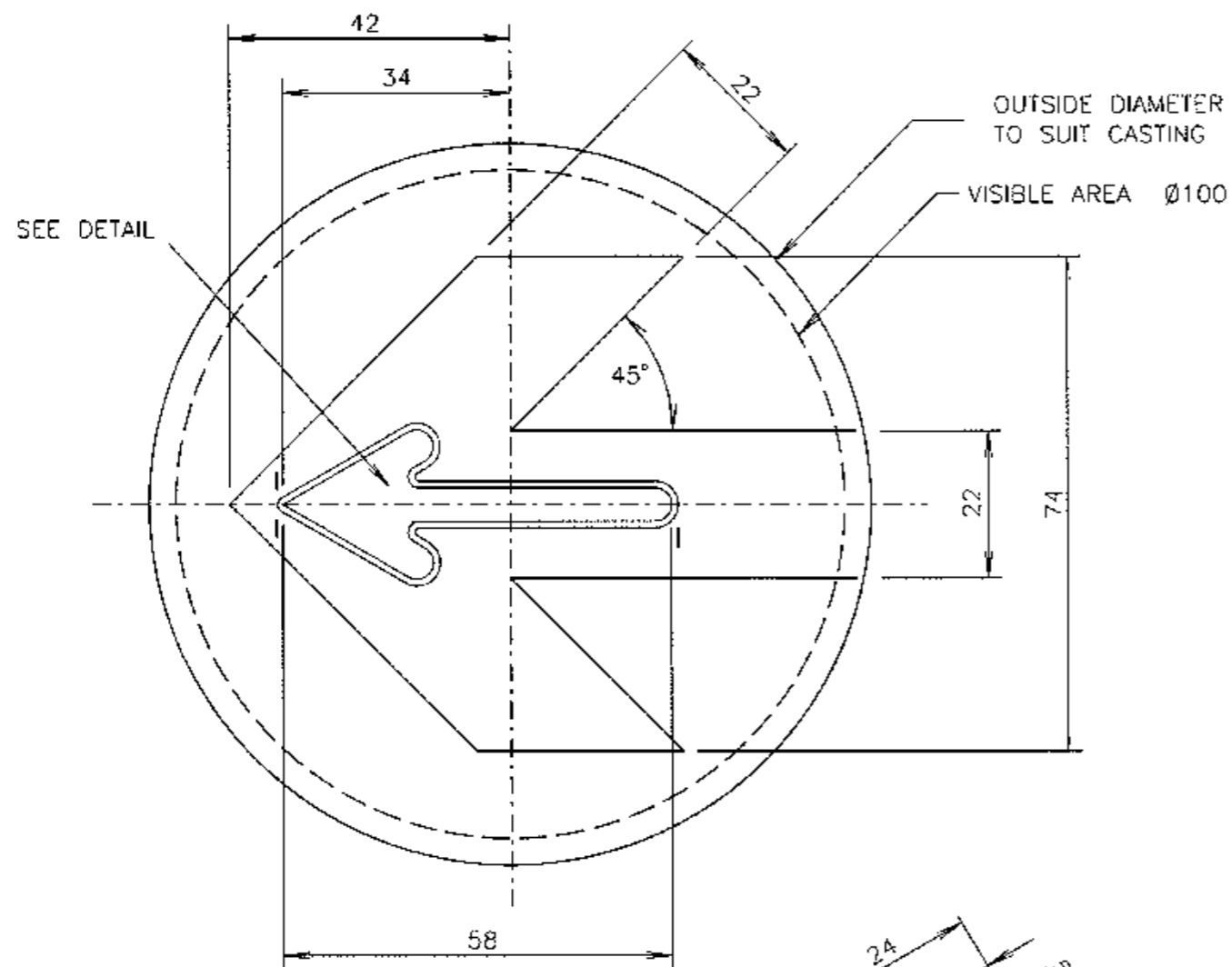


- NOTES**
- TRAFFIC SIGNALS GRAPHIC AND LOCKING SCREW GRAPHIC ON LID SURFACE TO DETAILS A & B RESPECTIVELY. ALL WRITING TO BE RAISED (REFER SECTION G-G).
  - THE MANUFACTURER SHALL SUPPLY THE JUNCTION BOX FULLY ASSEMBLED, COMPLETE WITH ALL PARTS LISTED BELOW.
  - MANUFACTURERS IDENTIFICATION & DATE OF SUPPLY TO BE MARKED INDELIBLY & WEATHER RESISTANT.

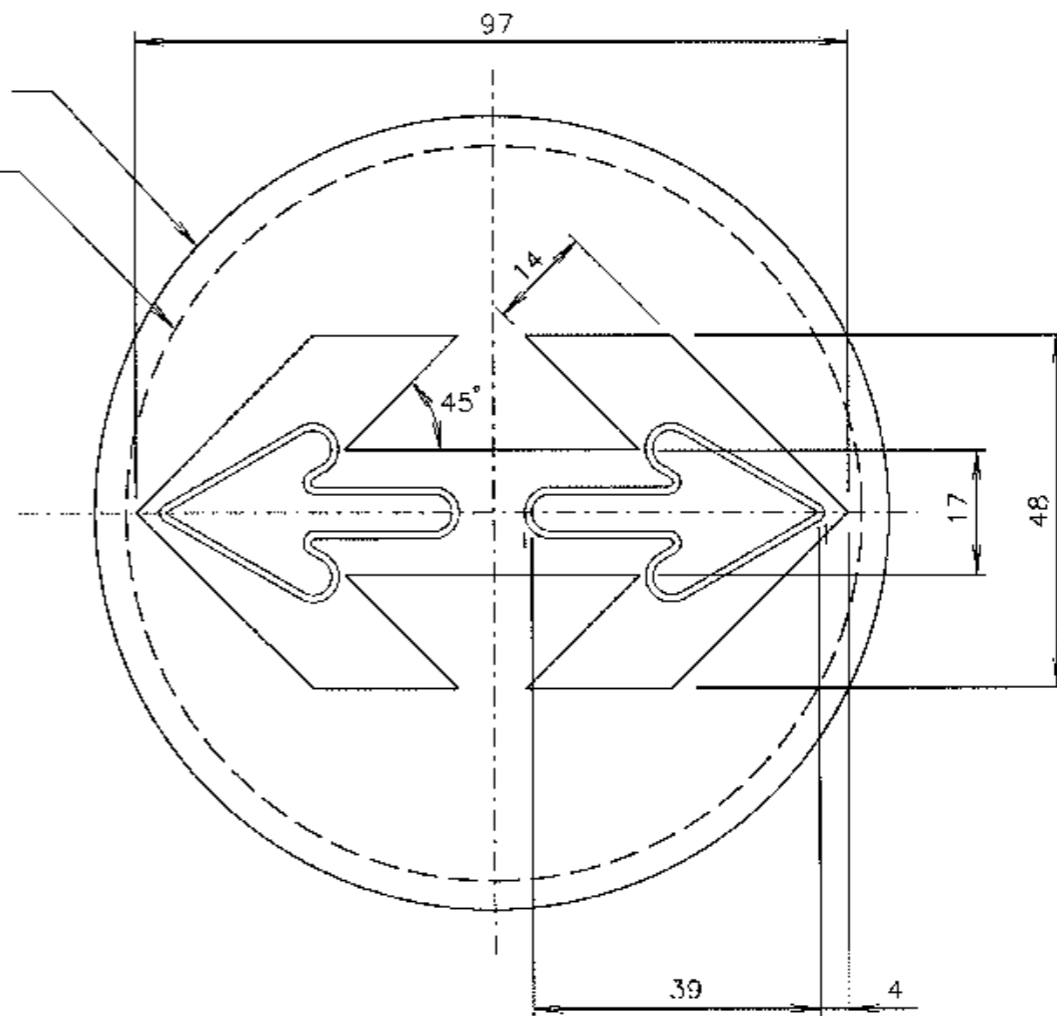
ITEM	DESCRIPTION	MATERIAL	FINISH	QTY
7	ROLL-PIN Ø4 x 20	STAINLESS STEEL	NATURAL	1
6	LOCKING PLATE	STAINLESS STEEL GRADE 316	NATURAL	1
5	NYLON WASHER Ø25.4 ID Ø12.7	NYLON 66	NATURAL	1
4	GASKET Ø1 Ø10 ID Ø3 60° DIAPHRAGM W/ASO	NEOPRENE TUBE	ENDS GLUED TOGETHER	1
3	CHEESE HEAD SCREW M12 TO AS 1275	STAINLESS STEEL GRADE 316	NATURAL	1
2	P.J. BOX LID CASTING	TO AS 1830	ONE CHROME & BLACK LACQUER ALL SURFACES	1
1	P.J. BOX BASE CASTING	1-320		1

ALL DIMENSIONS ARE IN MILLIMETRES

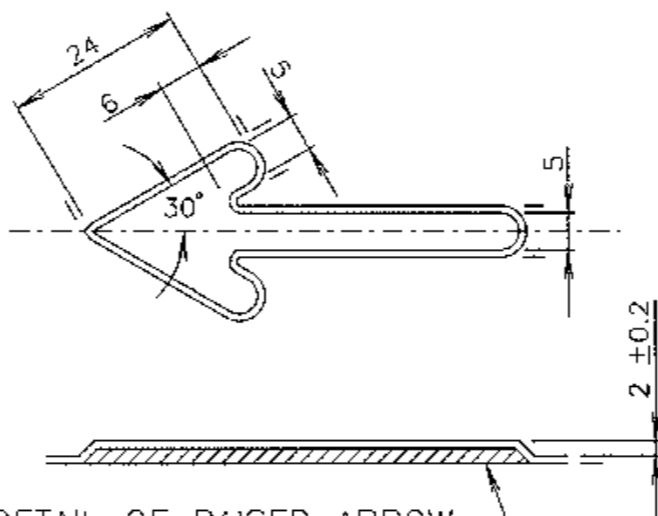
A ORIGINAL ISSUE	REFERENCE DRAWINGS	DRAWN LC 02-05-09	ROADS AND TRAFFIC AUTHORITY OF NSW		SHEET SIZE	FILE NO	SCALE	SHEET NO
	GEN. ARRANGEMENT	V2337-4	TRAFFIC SIGNALS		A1	77M-477	NTS	
	STANDARD P.J. BOX	VM016-12			SUPERSEDES		ISSUE	A1
	LARGE P. BOX	VM016-11			REG NO			
	CHECKED	B. WILSON	EXTRA LARGE-TYPE PAVEMENT JUNCTION BOX CASTING					
	APPROVED	S. SRIVASTAVA						
	RTA SUPPLY CAT NO	2001 0765	DATE		2007-09-04			
					REG NO		VM016-12	



SINGLE ARROW



DOUBLE ARROW



DETAIL OF RAISED ARROW INCLUDING CAST METAL FILLER FIXED WITH SUITABLE ADHESIVE (SEE NOTE 1)

NOT TO SCALE

TOLERANCE:  $\pm 0.5\text{mm}$  UNLESS OTHERWISE INDICATED.

MATERIAL: ALUMINIUM SHEET 0.8mm THICK.

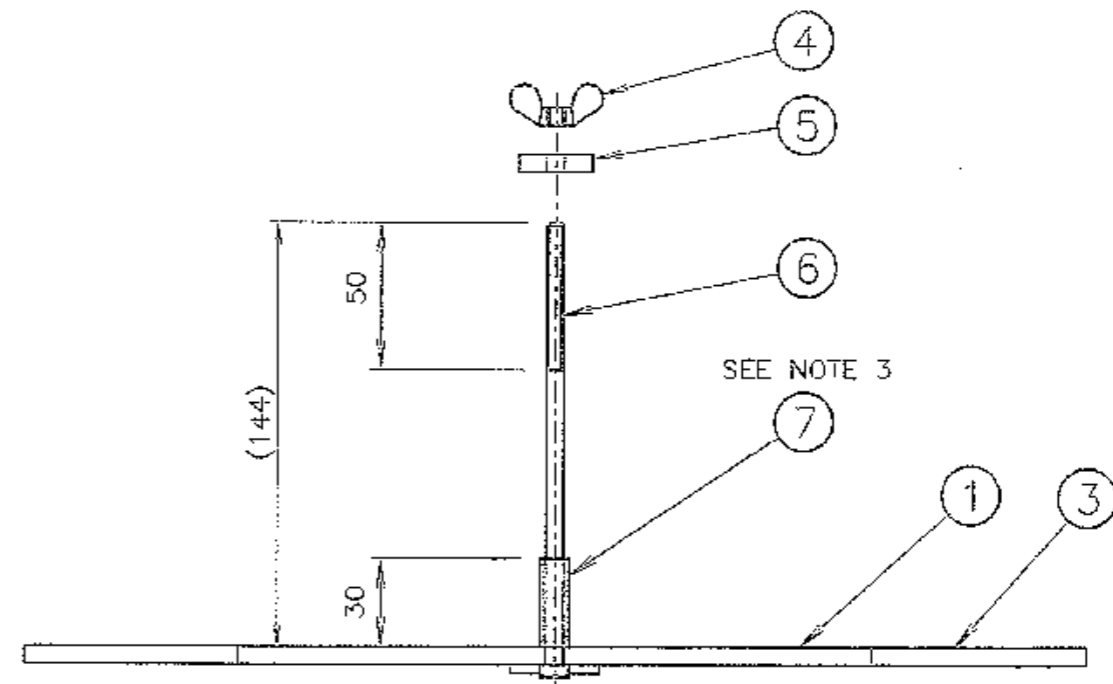
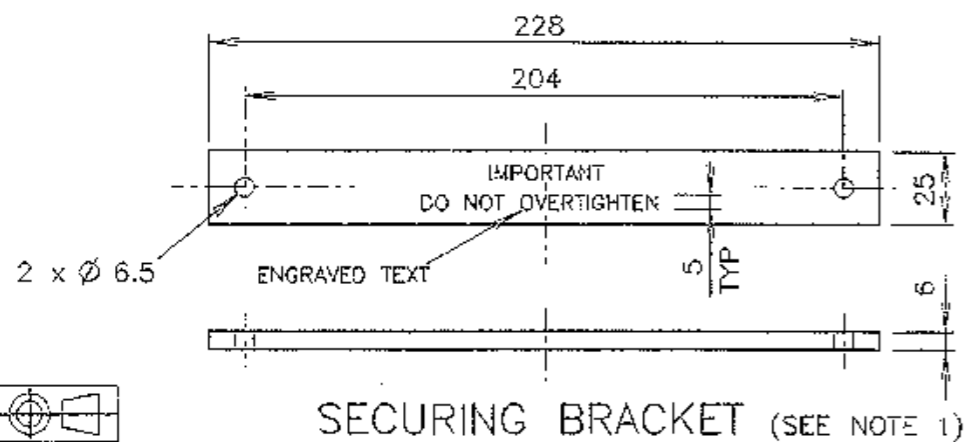
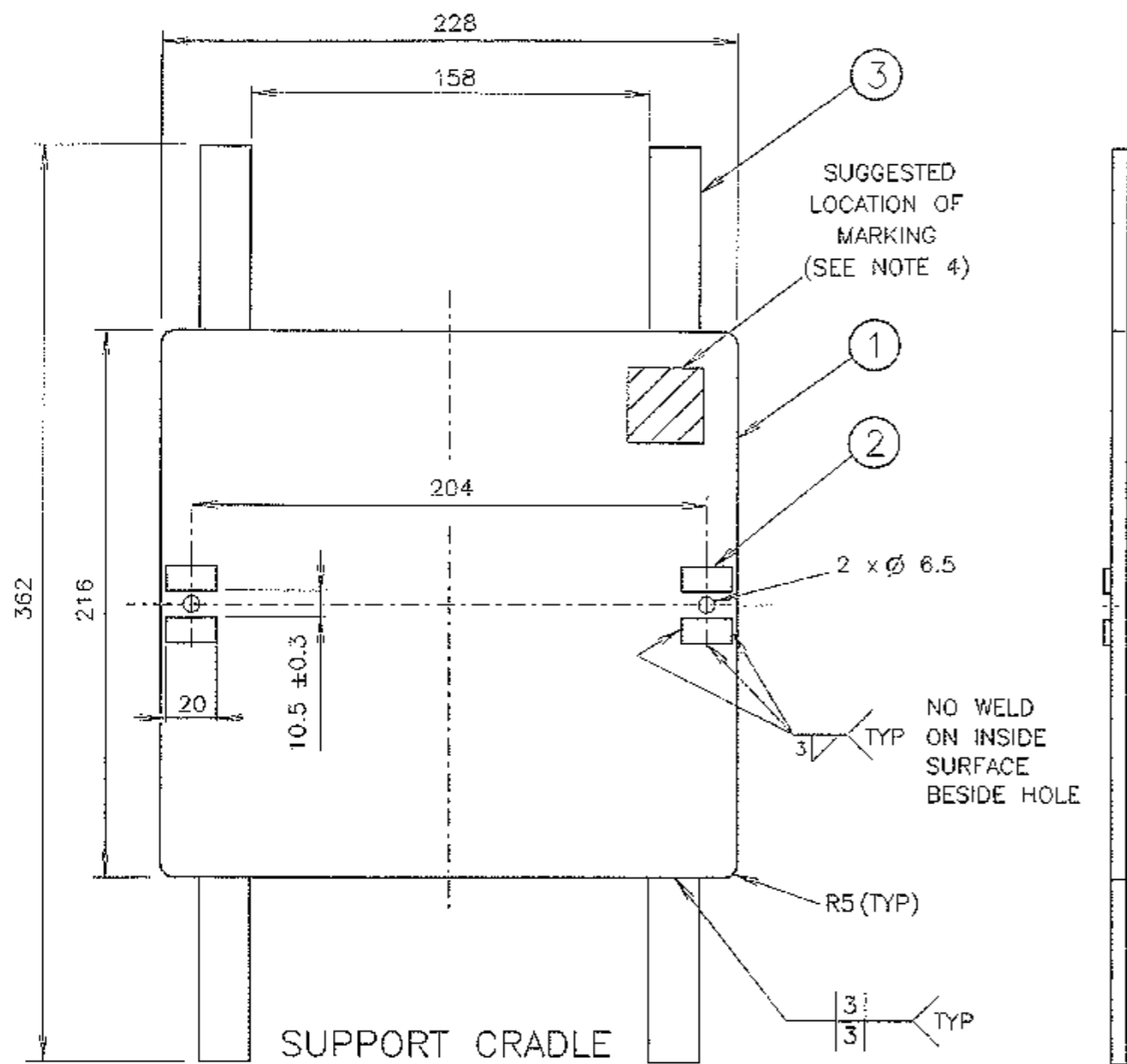
FINISH: GLOSS ANODISE.

COLOUR: (1) ARROW - CLEAR.  
 (2) SURROUND - TO BE WITHIN THE COLOUR RANGE RICH BLUE (B11) TO ROYAL BLUE (B12) - AS 2700. (SEE NOTE 3)

NOTES:

1. CAST METAL FILLER UNDERNEATH ALL RAISED ARROWS EXCEPT IN AUDIO TACTILE APPLICATIONS.
2. ANODISING SHALL CONFORM TO AS 1231 CLASS AA15.
3. THE COLOUR REFERENCES ARE 287C - 288C IN THE PANTONE MATCHING SYSTEM.

A ORIGINAL ISSUE J ISSUE:- 01/02/00 J/A EC2180 PLAN REDRAWN. NOTE 3 ADDED. TOLERANCE ADDED. JFG/JH BWT K ISSUE:- 31/07/18 REFERENCE TO RMS CATALOGUE No'S DELETED. LC. BWT.	REFERENCE PLANS PB CASE DIE CASTING VM041-30 PB ASSEMBLY VM041-31		ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS		SCALE FULL SIZE		APPROVED: 20-08-1992 FR HULSHER SUPERVISING ENGINEER	
			PEDESTRIAN PUSH-BUTTON ASSEMBLY DIRECTION ARROW/TRANSDUCER DISC		SUPERSEDES: ISSUE 1		ISSUE <input checked="" type="checkbox"/> K <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
					DRAWN NEILSEN DESIGN CHECKED PW RB 18-08-92			
					PASSED BW TAYLOR 20-08-1992		VM041-32	



### NOTES

1. LETTERING ON ITEM 5 TO BE ENGRAVED AND FILLED BLACK.
2. ALL WELDING SCALE TO BE REMOVED FROM SUPPORTING CRADLE BEFORE HOT DIPPED GALVANISING IN ACCORDANCE WITH AS 1650.
3. THERMOFIT RT 190-1 UTILITY HEAT SHRINK TUBING OR APPROVED EQUIVALENT TO BE SHRUNK OVER THE BOLTS TO HOLD THEM IN PLACE.
4. MANUFACTURERS IDENTIFICATION AND DATE OF MANUFACTURE TO BE LEGIBLY AND DURABLY MARKED.
5. TOLERANCE OF ALL DIMENSIONS UNLESS INDICATED OTHERWISE:
  - GENERAL TOLERANCE ±1.0mm.
  - BETWEEN HOLE CENTRES ±0.5mm.

DIMENSIONS ARE IN MILLIMETRES

ITEM	DESCRIPTION	MATERIAL	FINISH	QTY
7	'THERMOFIT' RT 190-1 30 LONG OR APPROVED EQUIVALENT (BLACK)	SEE NOTE 3	NATURAL	2
6	HEX HEAD BOLT M6 x 150, THREAD 50 LONG TO AS 1275 (SEE NOTE 4)	STAINLESS STEEL	NATURAL	2
5	SECURING BRACKET (SEE NOTE 1)	RIGID PVC	INDUSTRIAL GREY	1
4	WING NUT M6	STAINLESS STEEL	NATURAL	2
3	SUPPORT ARM 20 x 6 FLAT x 73 LONG	MILD STEEL	HD GALV	4
2	BOLT HEAD RESTRAINERS 10 x 3 FLAT x 20 LONG	MILD STEEL	(SEE NOTE 2)	4
1	BASE PLATE 6 THICK	MILD STEEL		1

G ISSUE 23-02-96  
JI TC2332 PLAN  
REDRAWN.  
RVC BWT  
H ISSUE 27-01-00  
JI TC2999 DIM 144  
& NOTE 5 ADDED.  
RVC

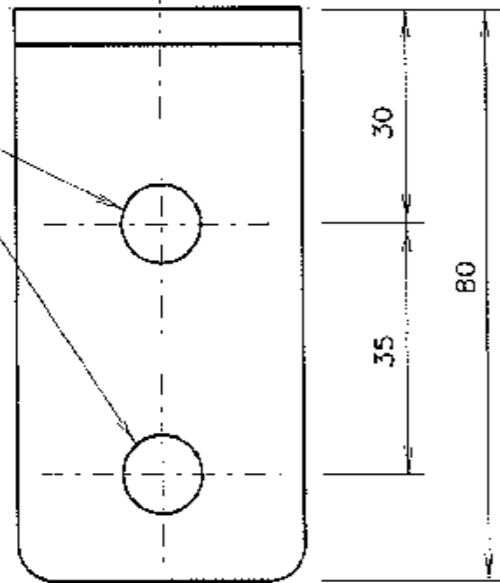
REFERENCE DRAWINGS  
U/G FUSE INSTALL VE500-11  
U/G FUSE ASSBLY VE500-10  
SUPPLY CATALOGUE NO  
18231220

ROADS AND TRAFFIC AUTHORITY OF NSW  
TRAFFIC SIGNALS  
MECHANICAL AND ASSEMBLY DETAILS OF  
THE SUPPORT CRADLE & SECURING BRACKET  
FOR THE UNDER GROUND FUSE BOX

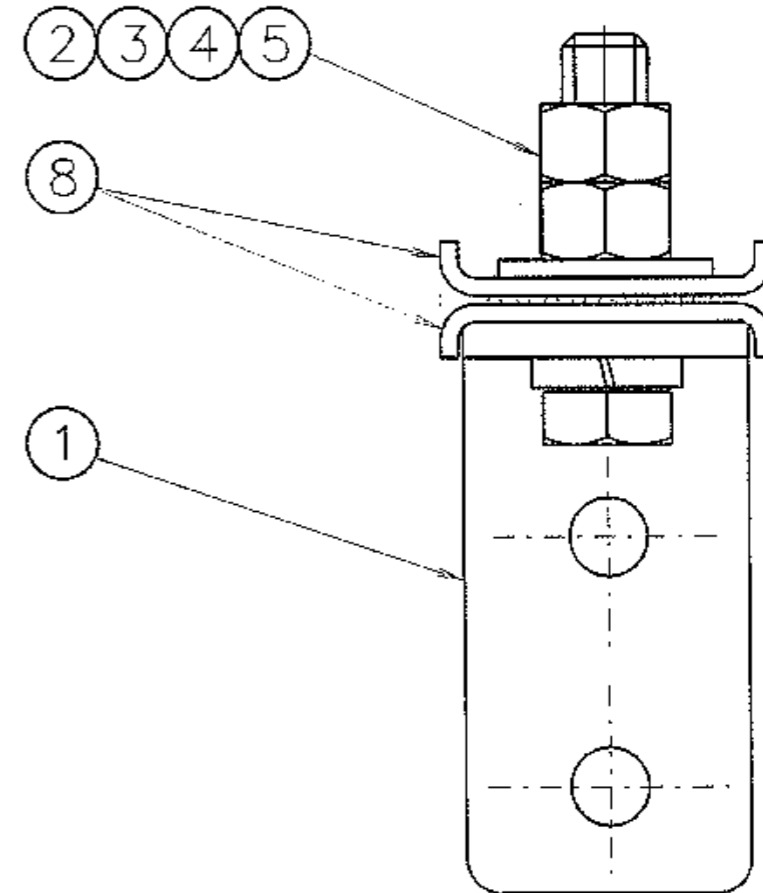
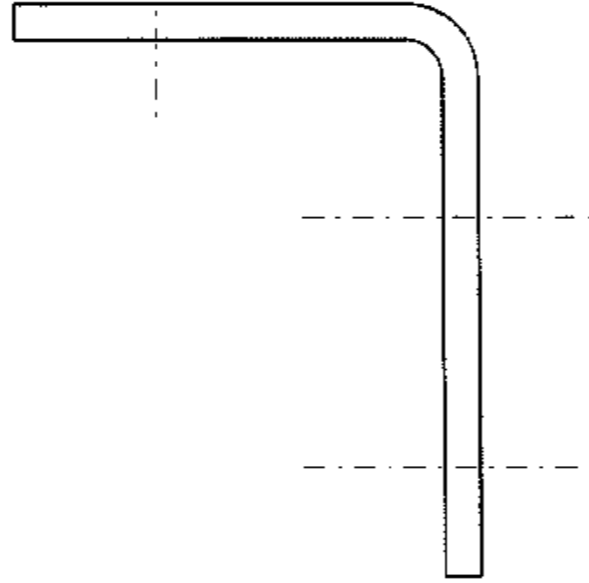
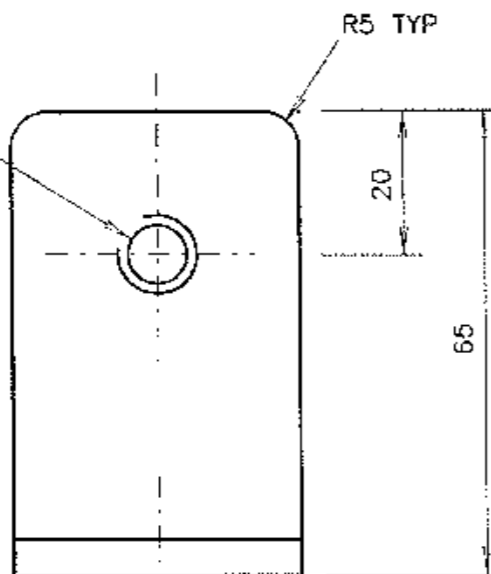
SCALE  
1:2.5  
SUPERSEDES: ISSUE F  
DRAWN AS 22-01-86  
CHECKED RB 31-01-86  
PASSED B TAYLOR  
11-09-1987

APPROVED: 10-09-1987  
MANAGER F HULSCHER  
EQUIPMENT AND STANDARDS  
ISSUE [initials]  
VM052-5

2 HOLES Ø11



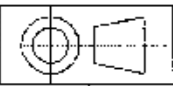
1 TAPPED HOLE M12



ASSEMBLY

NOTES

1. TOLERANCE  $\pm 1$  EXCEPT THAT THE FLAT STEEL OF BRACKET IS TO COMPLY WITH AS 3679.
2. ALL BURRS, SHARP EDGES AND WELDING SCALE TO BE REMOVED BEFORE GALVANISING.
3. ITEM HOT DIP GALVANISED IN ACCORDANCE WITH AS 1650.
4. ON DELIVERY ALL ITEMS TO BE FULLY ASSEMBLED AS SHOWN EXCEPT COACH BOLTS AND FLAT WASHERS (ITEM 6 & 7) TO BE PLACED INTO A STRONG BAG AND SECURELY ATTACHED TO EACH ASSEMBLY PRIOR TO DELIVERY.
5. A PAIR OF LOCK WASHERS (ITEM 8) SHALL BE FITTED TO EACH LUG ASSEMBLY (DIMPLE TO DIMPLE). LOCK WASHERS ARE AVAILABLE FROM BOB PANICH CONSULTANCY RYDE OR ALDRIDGE ELECTRICAL INDUSTRIES RHODES.



DIMENSIONS IN MILLIMETRES

ITEM	DESCRIPTION	MATERIAL	FINISH	QTY
8	LOCK WASHER (REFER TO PLAN VM200-24)	STAINLESS STEEL	NATURAL	2
7	HEX HD COACH SCREW M10 x 50 TO AS 1393 (SEE NOTE 4)	MILD STEEL	GALV TO AS 1214	2
6	FLAT WASHER M10 TO AS 1237 (SEE NOTE 4)	MILD STEEL	GALV TO AS 1650	2
5	HEX NUT M12 TO AS 1112	MILD STEEL	GALV TO AS 1214	2
4	SPRING WASHER M12 TO AS 1968	SPRING STEEL	GALV TO AS 1650	1
3	FLAT WASHER M12 TO AS 1237	MILD STEEL	GALV TO AS 1650	1
2	HEX HD SCREW M12 x 60 TO AS 1111	MILD STEEL	GALV TO AS 1214	1
1	MOUNTING BRACKET 40 x 5 FLAT TO AS 3679	MILD STEEL	GALV TO AS 1650	1

H ISSUE 17-10-96  
 JI TC 2797 PLAN  
 ALTERED: ITEM 8 &  
 NOTE 5 ADDED.  
 BRACKET REDESIGNED  
 TO SUIT LOCK WASHER  
 ITEM 7 WAS 40 LONG.  
 ITEM 2 WAS 50 LONG.  
 BWT

SUPPLY CAT NO  
 18230518

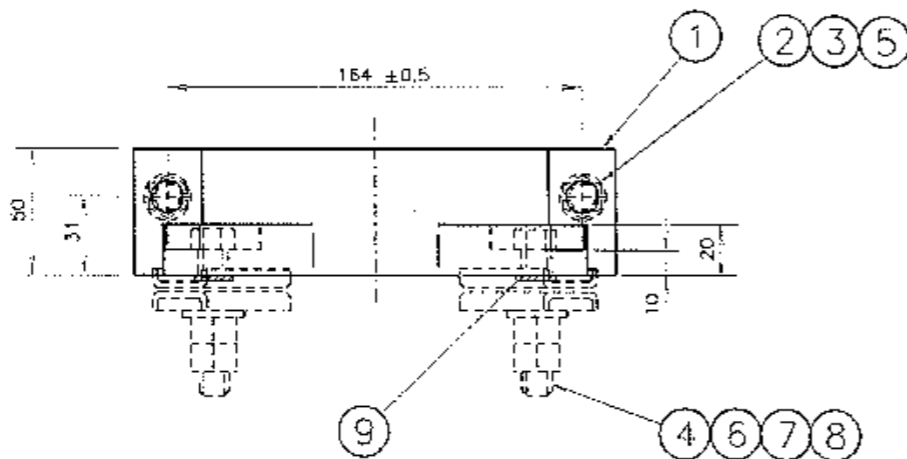
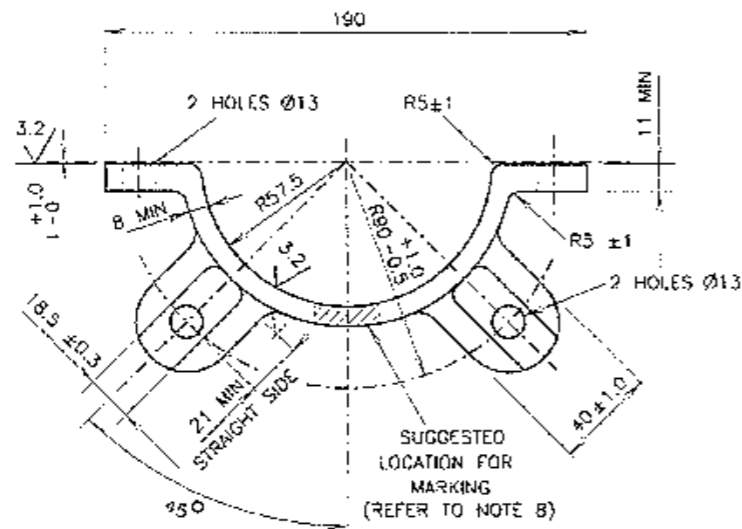
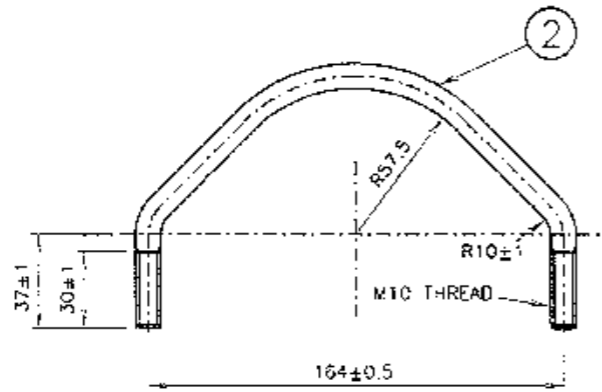
REFERENCE DRAWINGS	
LOWER LANT ASSY ON WOODEN POLES	VM015-16
TERMINAL BOX ASSY ON WOODEN POLES	VM015-21
LOCK WASHER	VM200-24

ROADS AND TRAFFIC AUTHORITY OF NSW  
 TRAFFIC SIGNALS

LANTERN MOUNTING BRACKET FOR  
 WOODEN POLES

SCALE	
FULL SCALE	
SUPERSEDES: ISSUE 3	
DRAWN	CC 11-09-81
CHECKED	RB
PASSED	BT 29-09-81

APPROVED: 30-09-81	
F R HULSCHER MANAGER STANDARDS & QUALITY	
ISSUE	H
VM200-10	



## NOTES

- REMOVE ALL BURRS, SHARP EDGES & CORNERS.
- MATERIAL: ITEM 1, ALUMINIUM ALLOY, TO AS 1874.
- ITEM 1 IS TO BE THOROUGHLY CLEANED, ETCHED, ALUMINIUM CHROMATED & DRIED BEFORE THE APPLICATION OF A POLYESTER-POWER COATING, (DULUX) SATIN SILVER COLOUR.
- TOLERANCE OF ALL DIMENSIONS UNLESS OTHERWISE INDICATED:
  - UP TO AND INCLUDING 100mm TO BE  $\pm 0.5$ mm.
  - OVER 100mm TO BE  $\pm 1$ mm.
  - ANGULAR TOLERANCE  $\pm 1^\circ$ .
- ITEMS SHALL BE SUPPLIED FULLY ASSEMBLED AS TWO POINT OR FOUR POINT UNITS. REFER TO QUANTITY COLUMN IN THE MATERIAL LIST. THE 'O' RING (ITEM 9) TO BE FITTED OVER THE SET SCREW (ITEM 7) AND UNDER THE LOCK WASHER (ITEM 8) ON ASSEMBLY.
- A PAIR OF LOCK WASHERS (ITEM 8) SHALL BE FITTED TO EACH LUG ASSEMBLY (DIMPLE TO DIMPLE).
- THE MOUNTING BRACKET SHALL HAVE SUFFICIENT STRENGTH FOR THE M10 U-BOLT NUTS TO BE TIGHTENED WITH A TORQUE OF 25 Nm.
- MANUFACTURERS' IDENTIFICATION & DATE OF MANUFACTURE TO BE MARKED CLEARLY, INDELIBLY AND WEATHER RESISTANT.
- ITEM 1 SHALL BE CAPABLE OF WITHSTANDING THE IMPACT TEST AS SHOWN ON DWG VM411-61.
- THE 2 POINT & 4 POINT ASSEMBLIES ARE TO BE PACKED INDIVIDUALLY INTO STRONG SEALED CLEAR PLASTIC BAGS WITH A LABEL ATTACHED INDICATING THE RELEVANT RTA SUPPLY CAT NO.
- IF MULTIPLE UNITS OF BRACKETS ARE SUPPLIED BOXED (IN ADDITION TO NOTE 10), THE BOX IS TO BE CLEARLY MARKED EXTERNALLY WITH:
  - DESCRIPTION OF CONTENTS.
  - MANUFACTURERS' IDENTIFICATION.
  - RTA ORDER NO.
  - RTA SUPPLY CAT NO.

ITEM	DESCRIPTION	MATERIAL	FINISH	QUANTITY	RTA SUPPLY CAT NO
9	'O' RING 3/8 INCH (INTERNAL DIA)	RUBBER	NATURAL	2	1823 0461
8	LOCK WASHER REFER DWG VM200-24	ST STEEL	NATURAL	4	1823 0470
7	HEX HD SET SCREW M12 x 60 TO AS 1111	MILD STEEL	HD GALV TO AS 1214	2	
6	HEX NUT M12 TO AS 1112	MILD STEEL	HD GALV TO AS 1214	4	
5	Ø10 FLAT WASHER TO AS 1237	MILD STEEL	HD GALV TO AS 1650	2	
4	Ø12 FLAT WASHER TO AS 1237	MILD STEEL	HD GALV TO AS 1650	2	
3	HEX NUT M10 TO AS 1112	MILD STEEL	HD GALV TO AS 1214	4	
2	U-BOLT	Ø10 MS ROD	HD GALV TO AS 1214	1	
1	MOUNTING BRACKET	ALUMINIUM ALLOY (REFER NOTE 2)		1	

DIMENSIONS IN MILLIMETRES UNLESS STATED OTHERWISE

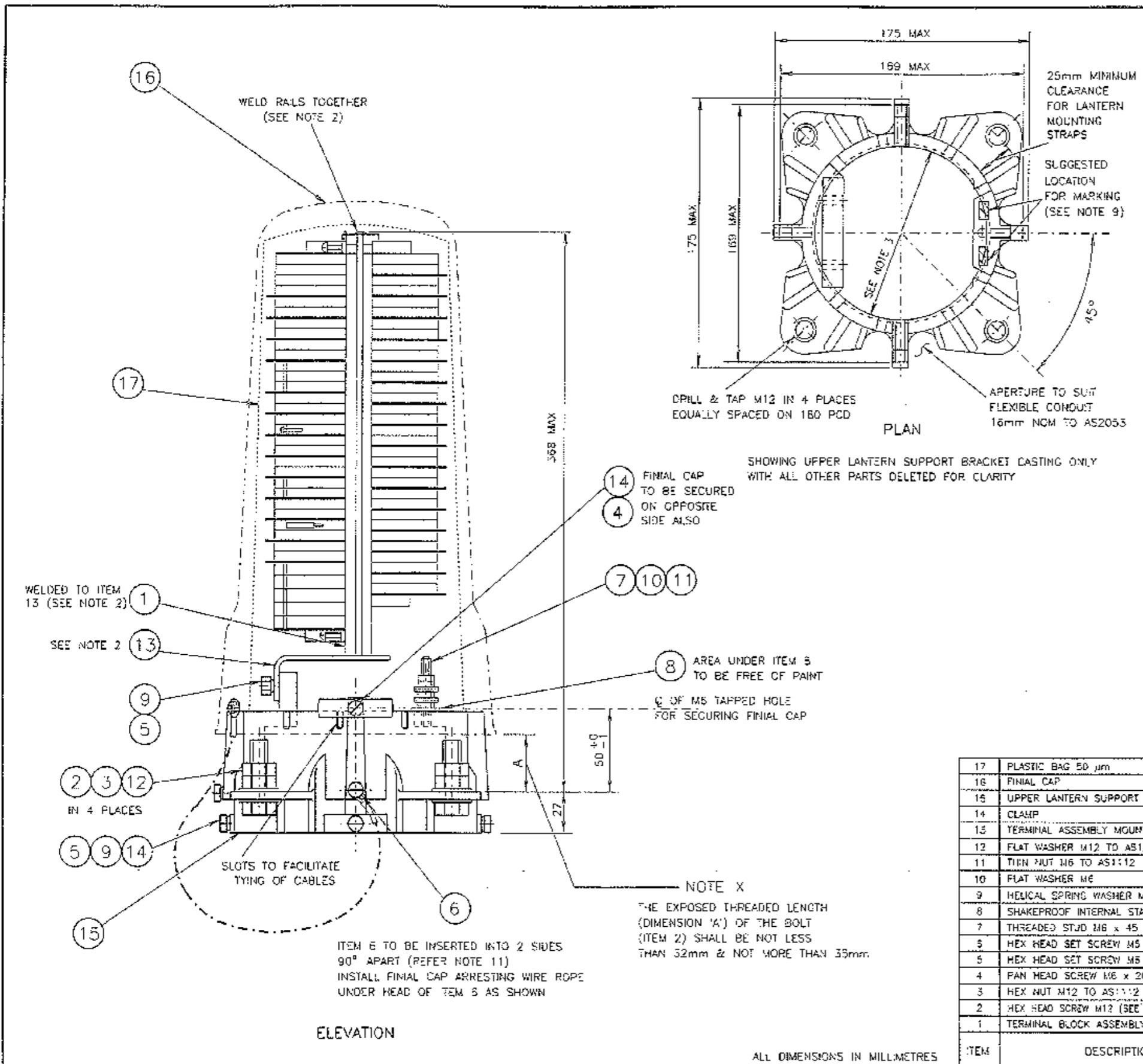
ISSUE 25-08-98  
 JI TC2957 PLAN  
 REDRAWN ITEM 9  
 ADDED WITH NOTE 5  
 ALTERED TO REFLECT  
 ITS USE.  
 RVC BWF  
 V ISSUE 25-08-2011  
 IN NOTE 7 THE TORQUE  
 WAS 60Nm.  
 A.K. B.W.T.

REFERENCE DRAWINGS	DRAWN	CHECKED	APPROVED
LOCK WASHER VM200-24	S. ELMS 25-12-95	R. B. 18-12-95	F. R. HULSCHER 12-02-98
			DATE 3-03-1998


ROADS AND TRAFFIC AUTHORITY OF NSW  
 TRAFFIC SIGNALS  
**TRAFFIC SIGNAL LOWER  
 MOUNTING BRACKET**

SHEET SIZE	FILE NO	SCALE	SHEET NO
A2		1 : 2	
SUPERSEDES ISSUE 1		ISSUE 1/V	
REG NO		VM200-14	





**NOTES**

- ALL ZINC PLATED ITEMS ARE TO BE PASSIVATED.
- ITEM 13 TO BE WELDED TO TWO ITEMS 1. ALL WELDS TO BE FREE OF SCALE, GROUND SMOOTH THEN ZINC PLATED AND PASSIVATED. ALL THE EXPOSED EDGES OF ITEM 13 ARE TO BE ROUNDED OFF. THE EDGES TO BE R1 MIN AND CORNERS TO BE R3 MIN TO PREVENT CABLE INSULATION DAMAGE.
- INTERNAL DIA OF UPPER LANTERN SUPPORT BRACKET (ITEM 15) IS TO SUIT GALVANISED 14.5mm OUTSIDE DIAMETER CIRCULAR HOLLOW SECTION TO AS1163.
- ASSEMBLIES (COMPRISING OF ITEMS 1-17 INCLUSIVE) SHALL BE INDIVIDUALLY BOXED COMPLETE WITH ALL SCREWS, NUTS & WASHERS, READY FOR FIELD USE.
- TOLERANCES: LINEAR  $\pm 1$  ANGULAR  $\pm 1^\circ$
- FINISH OF ITEM 15: MATERIAL TO BE THOROUGHLY CLEANED, ETCHED, ALUMINIUM CHROMATED AND DRIED BEFORE THE APPLICATION OF A POLYESTER-POWDER COATING OF 80um MINIMUM THICKNESS - (CULUX) SATIN SILVER COLOUR.
- UNLESS OTHERWISE INDICATED, ALL THREADS TO BE THROUGH FULL THICKNESS OF MATERIAL
- ALL EQUIPMENT MUST COMPLY WITH AS 2539 "TRAFFIC SIGNAL POST & ATTACHMENTS".
- MANUFACTURERS IDENTIFICATION AND DATE OF MANUFACTURE SHALL BE MARKED ON THE CASTING (ITEM 15) CLEARLY, INDELEBLY AND WEATHER RESISTANT.
- AN APPROVED ANTI-SEIZE COMPOUND CONTAINING ZINC DUST SHALL BE APPLIED TO ALL TAPPED HOLES IN THE CASTING.
- ITEM 6, M6 SET SCREW, END TO BE ROUNDED, THUS:  RE APPROX ONLY
- ITEM 15 SHALL BE CAPABLE OF WITHSTANDING THE IMPACT TEST SHOWN ON DWG VM411-61.
- POST TOP ASSEMBLIES TO BE INDIVIDUALLY PACKED FOR PROTECTION IN TRANSPORT AND CLEARLY MARKED EXTERNALLY WITH: (a) DESCRIPTION OF CONTENTS (b) MANUFACTURERS IDENTIFICATION (c) RTA ORDER NO (d) RTA CAT NO 70021259
- ITEM 17 SHALL BE AT LEAST 450 mm LONG AND 300 mm WIDE. THE THICKNESS OF ITEM 17 SHALL BE AT LEAST 50  $\mu$ m.

ITEM	DESCRIPTION	MATERIAL/DRAWING NUMBER	FINISH	QTY	REMARKS
17	PLASTIC BAG 50 $\mu$ m	HD PLASTIC	FLAT	1	REFER NOTE 4,14
16	FINIAL CAP	DRG VM213-1	AS PER PLAN	1	
15	UPPER LANTERN SUPPORT BRACKET	AL ALLOY TO AS1874 (SEE NOTE 9)	REFER NOTE 6	1	REF NOTE 3,6,7,12
14	CLAMP	DWG VM200-21	AS PER PLAN	6	
13	TERMINAL ASSEMBLY MOUNTING BRACKET	MILD STEEL	ZINC PLATE & PASS	1	REFER NOTE 2
12	FLAT WASHER M12 TO AS1237	MILD STEEL	GALV TO AS1650	6	
11	TURN NUT M6 TO AS1112	STAINLESS STEEL		4	
10	FLAT WASHER M6	STAINLESS STEEL		4	
9	HELICAL SPRING WASHER M6 TO AS1968	STAINLESS STEEL		5	
8	SHAKEPROOF INTERNAL STAR WASHER M6	STAINLESS STEEL	NATURAL	1	
7	THREADED STUD M6 x 45	STAINLESS STEEL		1	
5	HEX HEAD SET SCREW M5 x 35 TO AS1111	STAINLESS STEEL		2	REFER NOTE 11
4	HEX HEAD SET SCREW M5 x 20 TO AS1111	STAINLESS STEEL		3	
4	PAN HEAD SCREW M6 x 20 TO AS1111	STAINLESS STEEL		2	
3	HEX NUT M12 TO AS1112	MILD STEEL		8	
2	HEX HEAD SCREW M12 (SEE NOTE 'X') TO AS1111	MILD STEEL	HO GALVANISED	4	GALVANISING IN ACCORDANCE WITH AS1214
1	TERMINAL BLOCK ASSEMBLY	DRG VM200-31		1	

'AD' ISSUE 28-05-96  
 J/A IC2482/TC2703  
 PLAN REDRAWN KLIPPON  
 PART NOS UPDATED. IN  
 NOTE 7 MANUFACTURER  
 WAS KLIPPON ELECTRIC.  
 MIN THICKNESS ADDED.  
 ITEM 17 WAS 40 LONG.  
 WERE 2 & 3 RESPECT.  
 ITEMS 17, 20 AND 21  
 WERE BRASS NI PLATED.  
 SUGGESTED LOCATION OF  
 MARKERS MARKING ADDED.  
 RVC BWT

'AE' ISSUE 16-02-2007  
 TOP ASSY ELEVATION VIEW  
 REVISED. DELETED REF TO  
 KLIPPON & UTILUX.  
 ADDED 12 mm MIN DIM  
 BETWEEN EARTH STUD &  
 TERMS. DELETED NOTES 7  
 & 15 AND RENOVED.  
 ADDED ITEM 17 (PLASTIC  
 BAG) & NOTE 14.  
 IH BWT

'AF' ISSUE 16-06-2008  
 TERMINALS D7 & D8  
 DELETED. TERMINALS  
 15-29 RAISED TO SUIT.  
 12 mm MIN DIMENSION  
 DELETED.  
 IH BWT

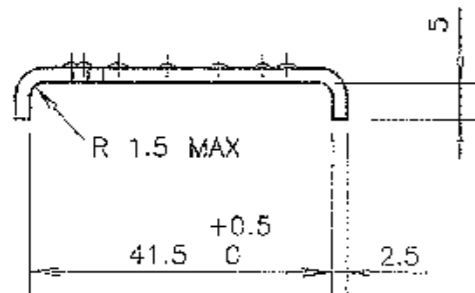
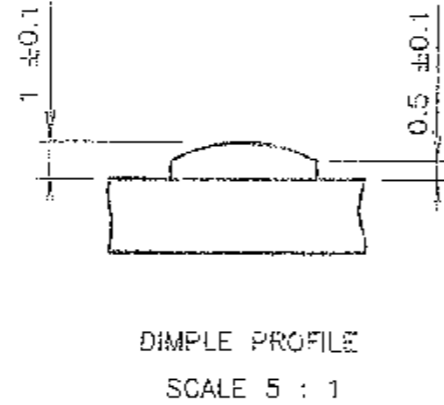
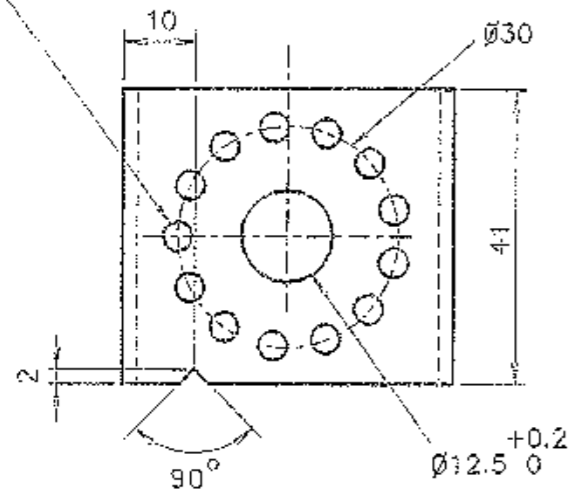
REFERENCE DRAWINGS	DRAWN LP 26-01-83
LOWER MTC BRACKET VM200-14	CHECKED NB 17-08-83
IMPACT TEST VM411-61	PASSED BY 10-02-03
CLAMP VM200-21	APPROVED
FINIAL VM213-1	
TERMINAL BLK ASSY VM200-31	
SUPPLY CAT NO 70021259	F.R. HULSCHER DATE 13-07-83

ROADS AND TRAFFIC AUTHORITY NSW  
 TRAFFIC SIGNALS

**TOP ASSEMBLY  
 TRAFFIC SIGNAL POST**

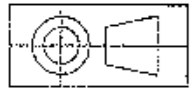
SHEET SIZE	FILE NO	SCALE	SHEET NO
A2			
SUPERSEDES ISSUE AC		ISSUE	AE AE AF
REG NO		VM200-15	

13 RAISED DIMPLES  $\varnothing 4 \pm 0.1$   
EQUISPACED WITH LEFT SIDE  
DIMPLE ON THE CENTRE LINE



NOTES

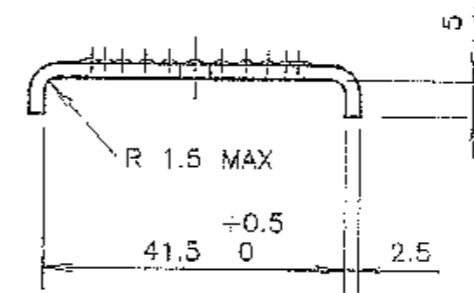
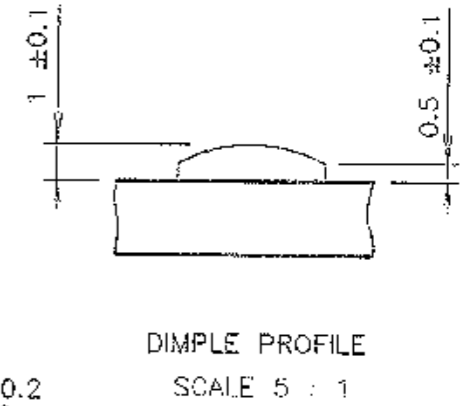
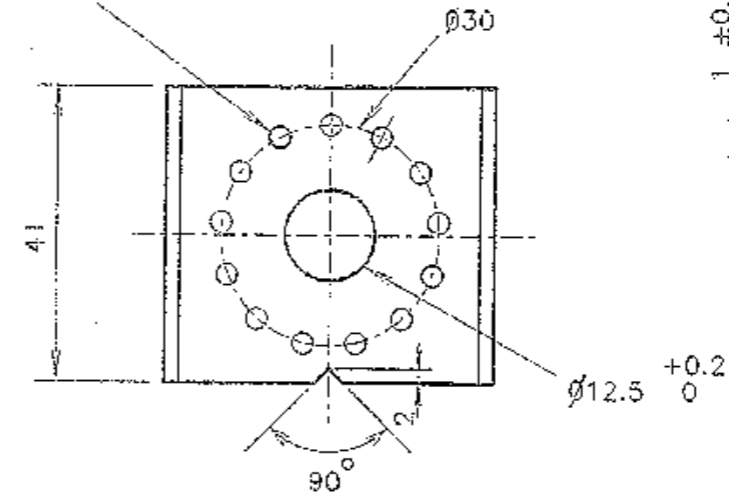
1. REMOVE SHARP EDGES & CORNERS.
2. MATERIAL: STAINLESS STEEL GRADE 304 2B DULL.
3. FINISH: BLACK
4. TOLERANCE UNLESS OTHERWISE STATED:
  - GENERAL DIMENSIONS  $\pm 0.5\text{mm}$
  - ANGULAR  $\pm 1^\circ$
5. THIS LOCK WASHER TO BE USED ONLY FOR THE TEE-BAR ASSEMBLY FOR DUAL LANTERNS.



DIMENSIONS IN MILLIMETRES

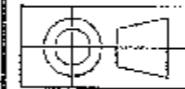
A ORIGINAL ISSUE	REFERENCE DRAWINGS		APPROVED: 08-01-99	
	TEE-BAR FOR 200mm	VM012-14	T YUNG	
	TEE-BAR FOR 300mm	VM012-15	MANAGER STDS & QUALITY	
	RTA SUPPLY CAT NO 18233543		ISSUE A	
ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS		SCALE 1 : 1 OR AS SHOWN	SUPERSEDES:	
SPECIAL LOCK WASHER FOR T-BAR ASSEMBLIES FOR DUAL LANTERNS		DRAWN RVC 15-12-98	DRAWN EB 7-03-95	
		CHECKED TY 08-01-99	CHECKED BWT	
		PASSED RVC 08-01-99	PASSED BWT 17-05-95	
		VM200-29		VM200-24

13 RAISED DIMPLES  $\varnothing 4 \pm 0.1$   
EQUISPACED WITH TOP  
DIMPLE ON THE CENTRE LINE



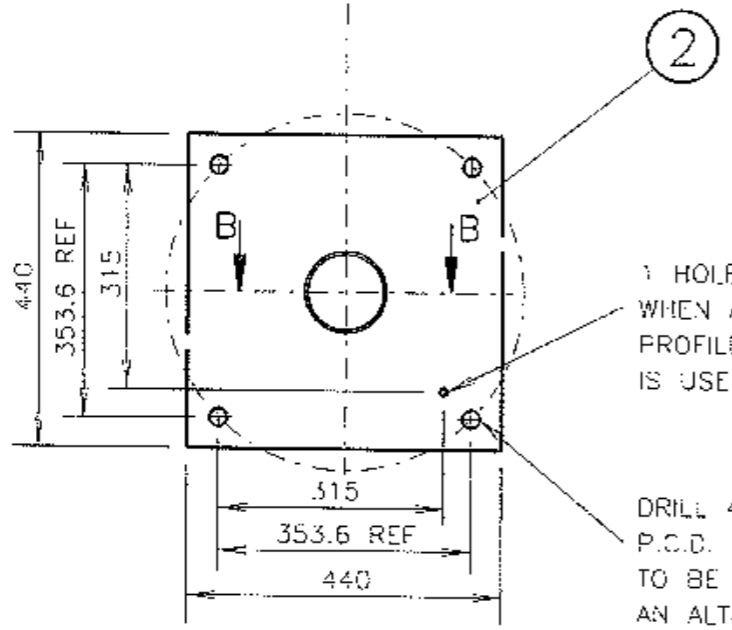
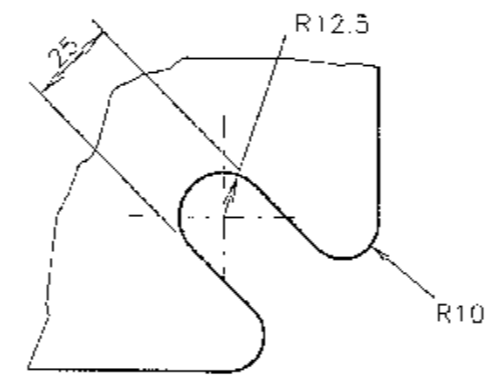
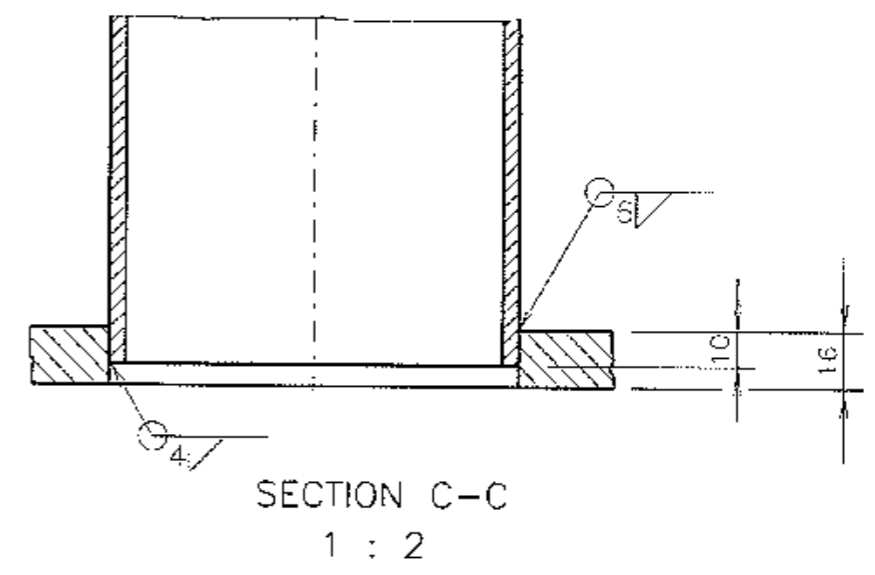
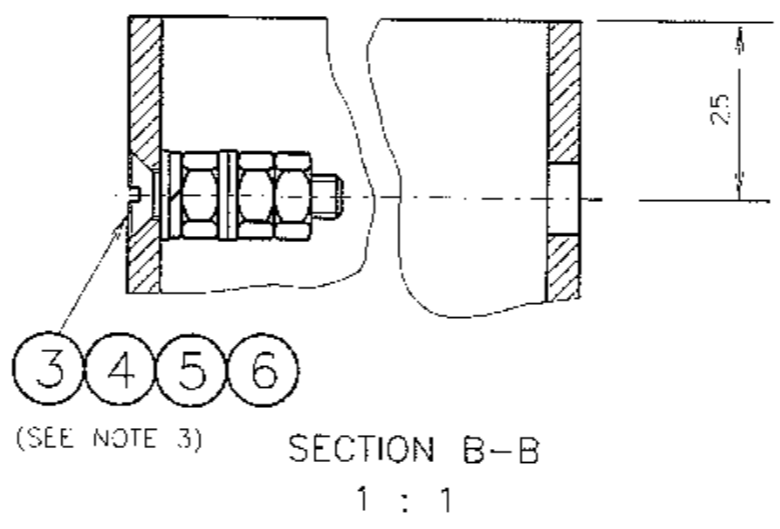
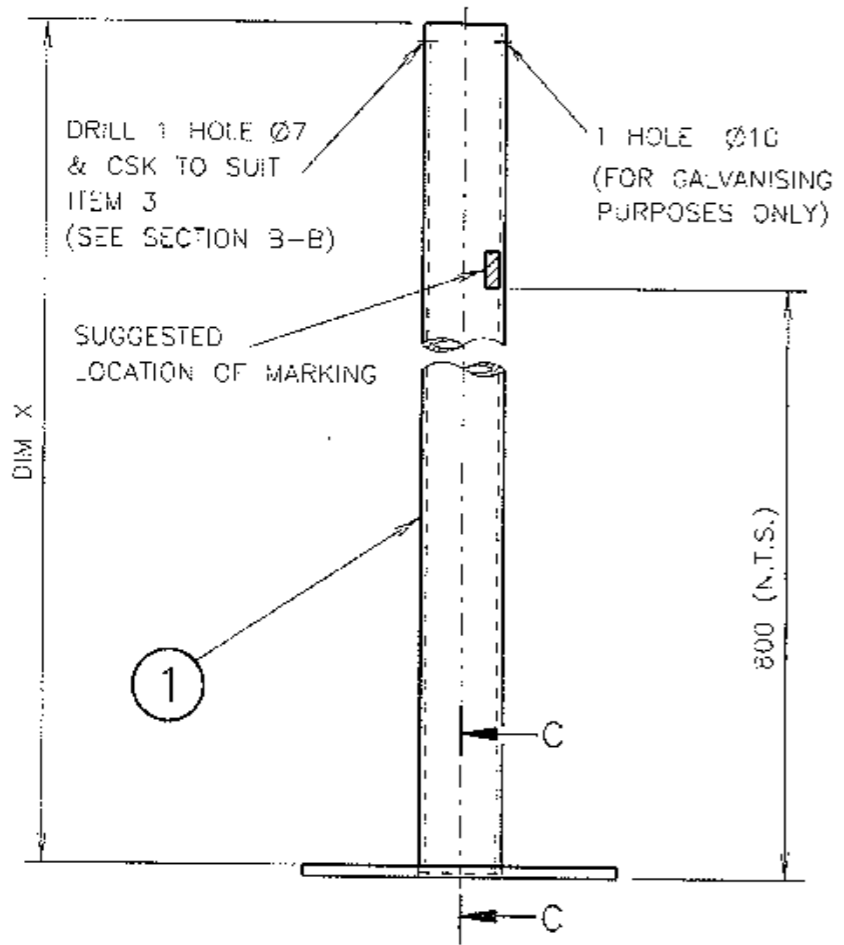
NOTES

1. REMOVE SHARP EDGES & CORNERS.
2. MATERIAL: STAINLESS STEEL GRADE 304 2B DULL.
3. FINISH: NATURAL.
4. TOLERANCE UNLESS OTHERWISE STATED:
  - GENERAL DIMENSIONS  $\pm 0.5\text{mm}$
  - ANGULAR  $\pm 1^\circ$



DIMENSIONS IN MILLIMETRES

A ORIGINAL ISSUE	REFERENCE DRAWINGS		APPROVED: 08-01-99	
	ISSUE 19-06-95 J/1 TC 2710 THICKNESS 2.5 WAS 2 & 'Vee' POSITION ALTERED.	EB	RVC	BWT
	ISSUE 09-08-95 J/1 TC2728 LENGTH WAS +2. WIDTH WAS +1. TOLERANCES ADDED	RVC	BWT	
	ISSUE 03-03-96 J/1 TC2802 NO PUT ON PLAN.	RVC	BWT	
	ISSUE 23-04-96 J/1 TC2817 WIDTH WAS +0.2 WAS 41.3 R 1.5 MAX ADDED.	RVC	BWT	
ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS		SCALE 1 : 1 OR AS SHOWN	APPROVED: T YUNG	
STANDARD LOCK WASHER FOR LANTERN MOUNTING STRAP AND LOWER MOUNTING BRACKET		SUPERSEDES:		MANAGER STDS & QUALITY
		DRAWN EB 7-03-95	DRAWN EB 7-03-95	
		CHECKED BWT	CHECKED BWT	
		VM200-29		VM200-24



1 HOLE Ø10 REQD ONLY WHEN ALTERNATIVE PROFILE (DETAIL A) IS USED

DRILL 4 HOLES Ø25 EQUISPACED ON 500mm P.C.D. LOCATION & ALIGNMENT OF HOLES TO BE WITHIN ±1 OF TRUE POSITION. AN ALTERNATIVE BASE PLATE CORNER PROFILE AS SHOWN IN DETAIL A MAY BE USED.

POST REQUIRED	
DIM X	SUPPLY CAT NO
3200	18233975
4100	18234009
4800	18233983
5200	18233940

- NOTES:**
- MANUFACTURE OF POST SHALL BE IN ACCORDANCE WITH SPEC P/6 & AS 2339.
  - THE SURFACE OF THE TUBULAR SECTION SHALL BE SMOOTH & FREE FROM DAGS OR SHARP PROJECTIONS CAUSED BY THE GALVANISING PROCESS.
  - POSTS TO BE SUPPLIED WITH ITEMS 3, 4, 5 & 6 FITTED AS SHOWN IN SECTION B-B. HEAD OF ITEM 3 TO BE FLUSH WITH POST AFTER GALVANISING.

ITEM	DESCRIPTION	MATERIAL	FINISH	QTY	REMARKS
6	FLAT WASHER 05	STAINLESS STEEL	NATURAL	3	TO AS 1237
5	SPRING WASHER 06			1	TO AS 1968
4	HEX NUT M6			3	TO AS 1112
3	CSK HEAD SCREW M6 x 30	MS GRADE 250	HOT DIP GALVANISED TO AS 1650	1	TO AS 1427
2	BASE PLATE			1	
1	STEEL TUBE DN 100 - MEDIUM	STEEL		1	TO AS 1074



DIMENSIONS IN MILLIMETRES

X ISSUE 27-04-92  
 J/1 TC 2364  
 PLAN REDRAWN  
 SECTION C-C FILLET  
 WFLD 4 WAS B  
 DIM 'X' WAS 'A'  
 ITEMS 5 & 6 ADDED  
 IN NOTE 3 MARKING  
 DETAILS DELETED  
 PRESENT DETAILS  
 ADDED  
 EB RVC BWT

REFERENCE DRAWINGS	
FOOTING	VC002-1

ROADS AND MARITIME SERVICES  
 TRAFFIC SIGNALS

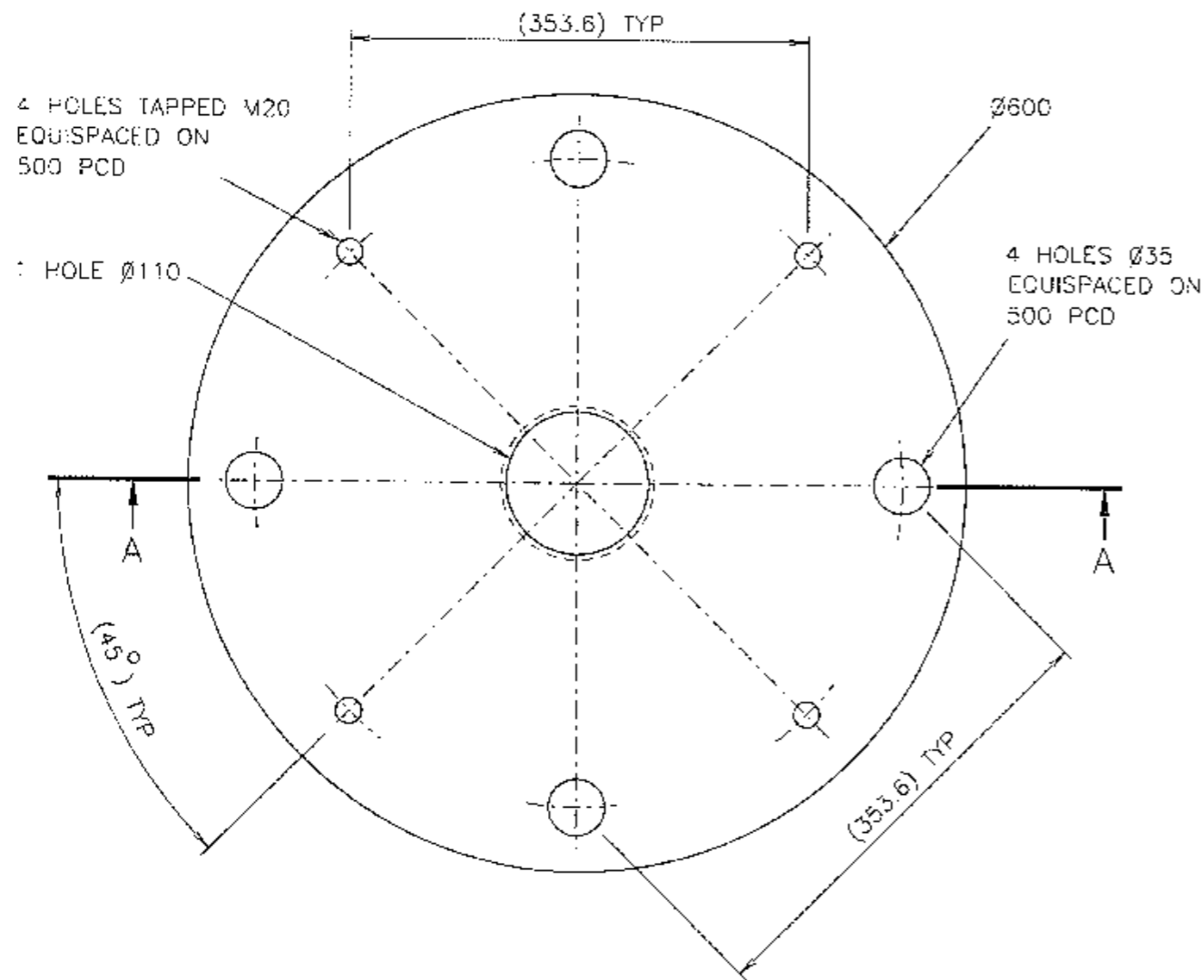
**TYPE 2 POST  
 MECHANICAL DETAILS**

SCALE	
1:10	OR AS SHOWN
SUPERSEDES: ISSUE W	
DRAWN	LP 28-03-83
CHECKED	RB
PASSED	—

APPROVED: B-05-84  
**F. HULSCHER**  
 MANAGER STANDARDS & QUALITY

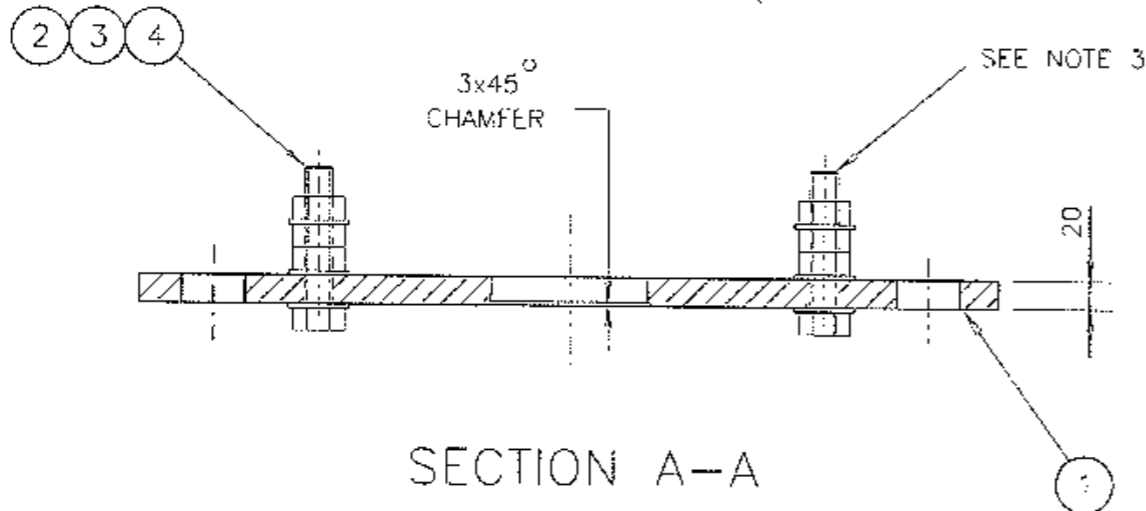
ISSUE X

**VM202-1**

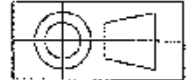


NOTES

1. TOLERANCE: HOLE CENTRES TO BE WITHIN  $\pm 1\text{mm}$  OF TRUE POSITION AND UNLESS INDICATED ELSEWHERE, THE TOLERANCE OF ALL OTHER DIMENSIONS ARE AS FOLLOWS:
  - UP TO AND INCLUDING 100mm TO BE  $\pm 0.5\text{mm}$ .
  - OVER 100mm TO BE  $\pm 2\text{mm}$ .
2. ALL BURRS, SHARP EDGES AND WELDING SCALE TO BE REMOVED BEFORE GALVANISING.
3. ITEMS 2, 3 AND 4 TO BE SUPPLIED FULLY ASSEMBLED AS SHOWN.



DIMENSIONS ARE IN MILLIMETRES



ITEM	DESCRIPTION	MATERIAL	FINISH	QTY
4	HEX NUT M20 TO AS 1112	MILD STEEL	GALV TO AS 1214	12
3	FLAT WASHER M20 (LARGE SERIES) TO AS 1237	MILD STEEL	GALV TO AS 1650	16
2	M20 X 100 LONG HEX SET SCREW TO AS 1111	MILD STEEL	GALV TO AS 1214	4
1	ADAPTOR PLATE TO AS 3678	MILD STEEL	GALV TO AS 1650	TO SUIT

B ISSUE 30-09-98  
 JI TC2471 PLAN  
 REDRAWN. CAT NO  
 & NOTE 6 ADDED.  
 PLATE SHAPE WAS  
 OCTAGONAL.  
 RVC BWT

C ISSUE 02-07-12  
 4xDIA 20 HOLES  
 CHANGED TO TAPPED  
 M20. WELDING DIAL  
 DELETED. ITEM 2 WAS  
 50 LONG THREADED  
 STUD. NOTES REVISED.  
 QUANTITIES REVISED.  
 LC. BWT.

REFERENCE DRAWINGS	
FOOTING TYPE 2 POST	VC002-71
FOOTING 5 & 6 POSTS	VC002-72

SUPPLY CAT NO  
18231751

ROADS AND MARITIME SERVICES  
 TRAFFIC SIGNALS

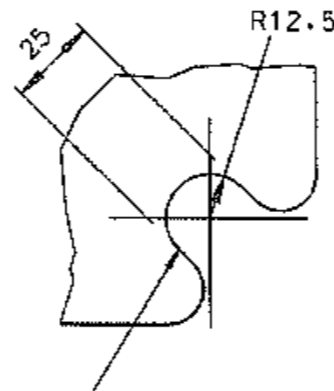
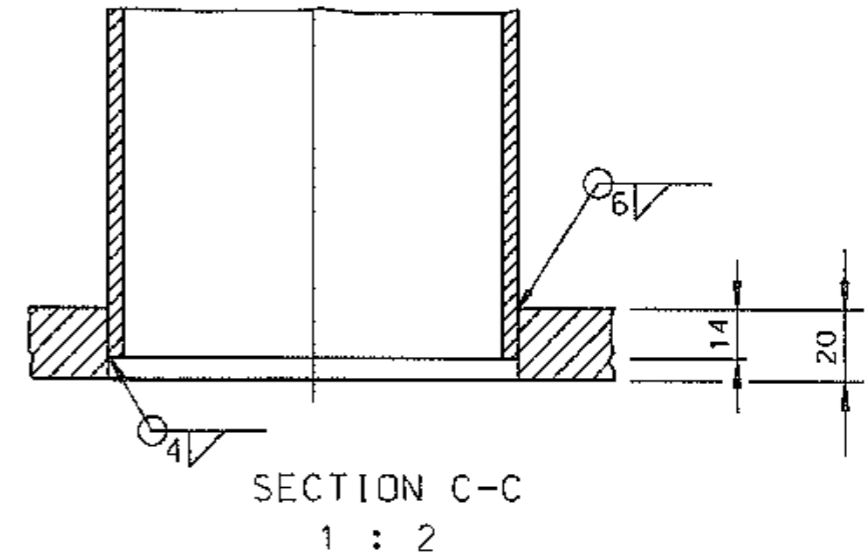
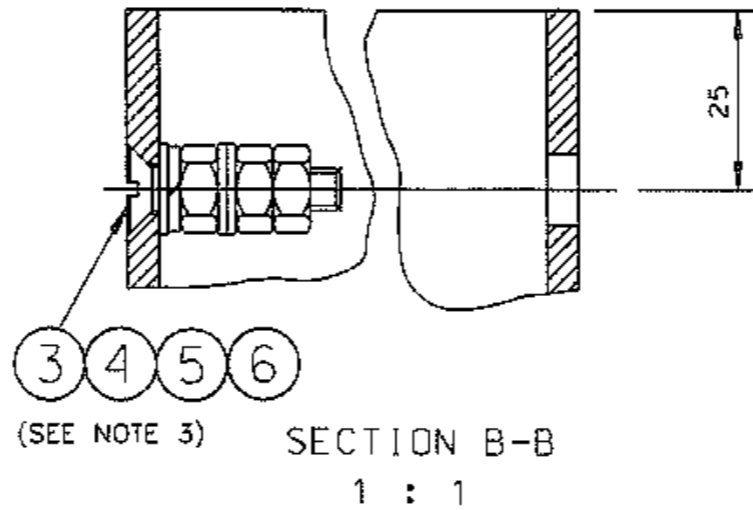
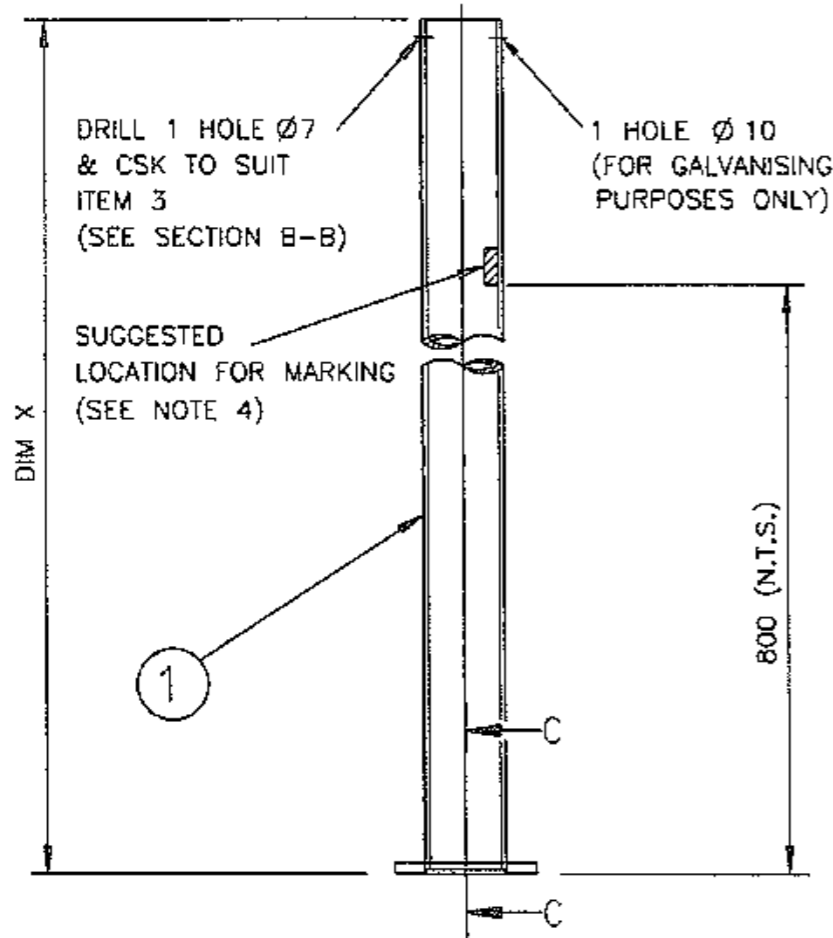
ADAPTOR PLATE FOR A TYPE 2 POST  
 ON A TYPE 5 MAST ARM FOOTING  
 OR A TYPE 6 POST FOOTING

SCALE	
1	: 5
SUPERSEDES: ISSUE A	
DRAWN	LP 18-06-84
CHECKED	R BEULKE
PASSED	BWT 30-07-84

APPROVED: 30-07-1984  
 F HULSCHER  
 MGR STANDARDS & QUALITY

ISSUE 8 C

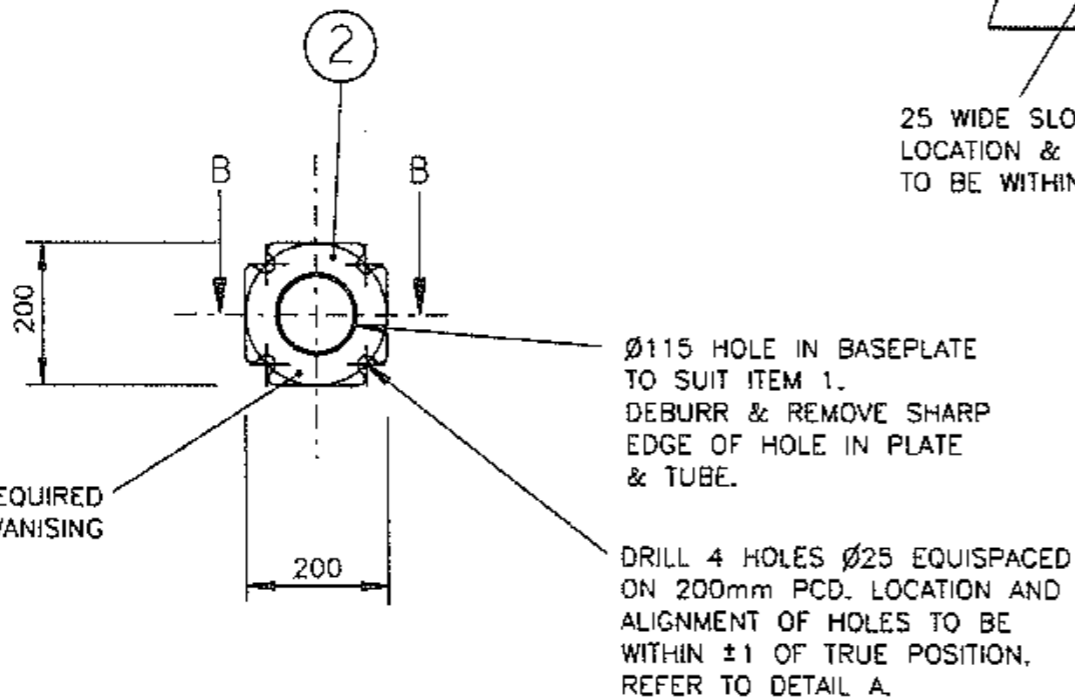
VM202-10



POST REQUIRED	
DIM X	SUPPLY CAT NO
3100	
4000	

NOTES:

1. MANUFACTURE OF POST SHALL BE IN ACCORDANCE WITH SPEC P/6 & AS 2339.
2. THE SURFACE OF THE TUBULAR SECTION SHALL BE SMOOTH & FREE FROM DAGS OR SHARP PROJECTIONS CAUSED BY THE GALVANISING PROCESS.
3. POSTS TO BE SUPPLIED WITH ITEMS 3, 4, 5 & 6 FITTED AS SHOWN IN SECTION B-B. HEAD OF ITEM 3 TO BE FLUSH WITH POST AFTER GALVANISING.
4. MANUFACTURERS IDENTIFICATION & DATE OF MANUFACTURE SHALL BE LEGIBLY & DURABLY MARKED.

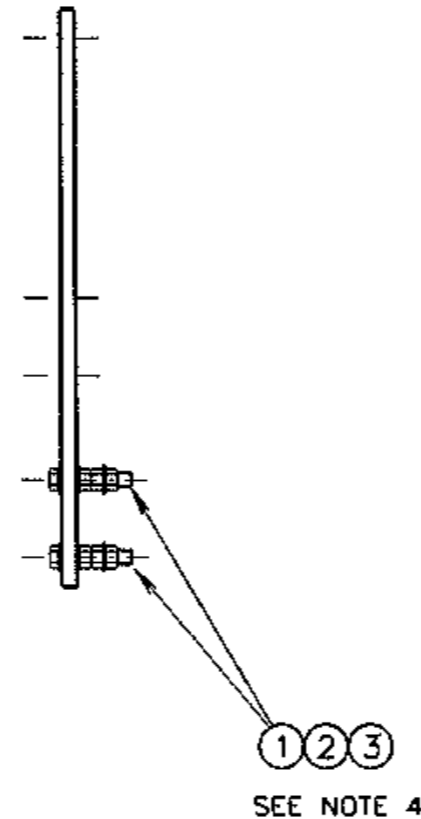
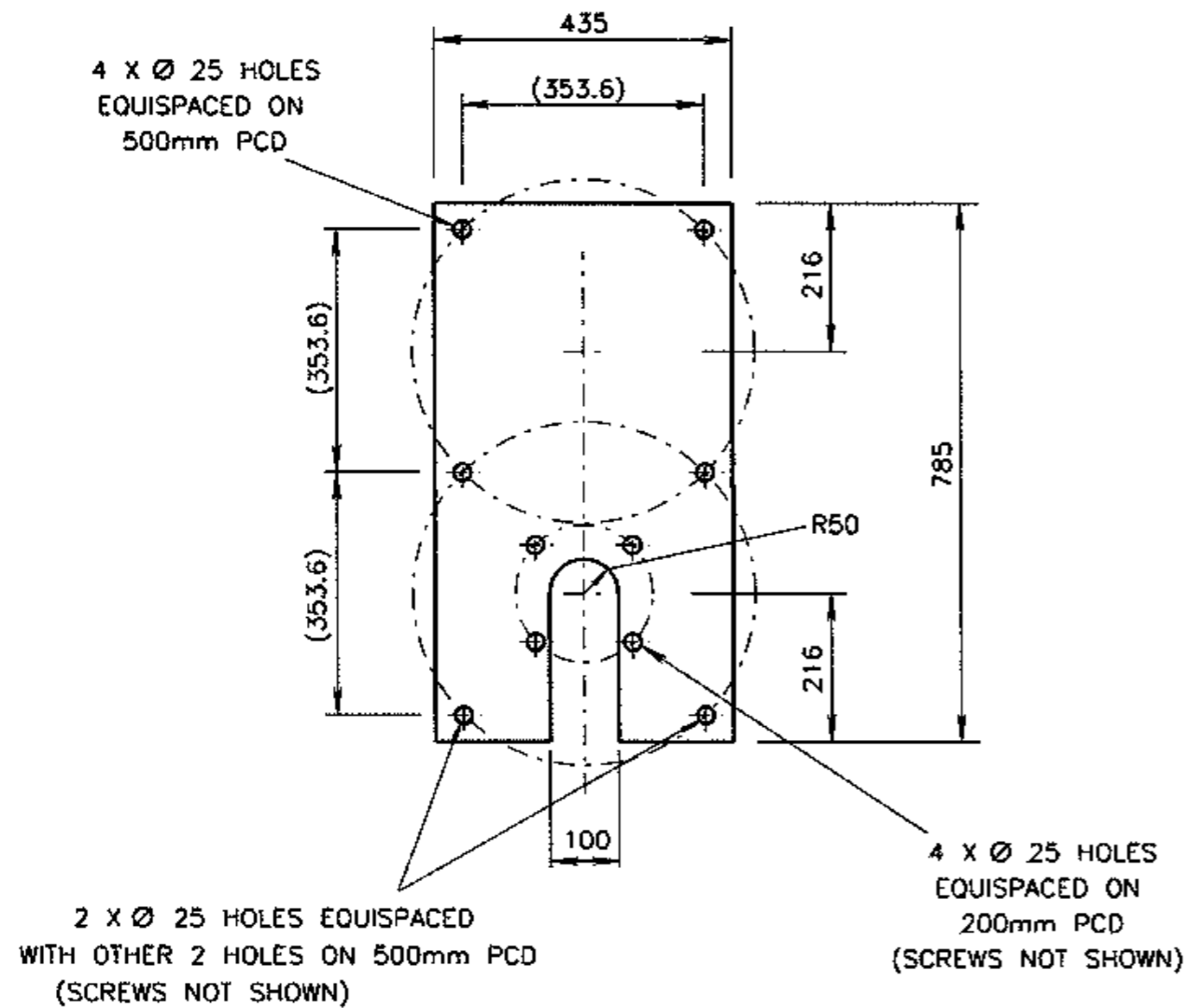


ITEM	DESCRIPTION	MATERIAL	FINISH	QTY	REMARKS
6	FLAT WASHER M6	STAINLESS STEEL	NATURAL	3	TO AS 1237
5	SPRING WASHER M6			1	TO AS 1968
4	HEX NUT M6			3	TO AS 1112
3	CSK HEAD SCREW M6 x 30			1	TO AS 1427
2	BASE PLATE	MS GRADE 350	HOT DIP GALVANISED TO AS 1650	1	
1	STEEL TUBE DN 100 - MEDIUM	STEEL		1	TO AS 1074



DIMENSIONS IN MILLIMETRES

<p>A ORIGINAL ISSUE</p> <p>B ISSUE: NOTE 4 ADDED. BASE PLATE WAS 350x350. <math>\varnothing 115</math> HOLE IN BASEPLATE' NOTE ADDED. F.P. 19.02.09 BWT</p> <p>C ISSUE: 25.11.09 BASE PLATE SIZE WAS 250x250, MATERIAL WAS 16 THICK MS 250 GRADE. MF BWT</p>	<p>REFERENCE DRAWINGS</p> <p>FOOTING VC002-59</p> <p>HOLDING BOLTS VC002-60</p>		<p>ROADS AND TRAFFIC AUTHORITY OF NSW</p> <p>TRAFFIC SIGNALS</p>		<p>SCALE 1:10 OR AS SHOWN</p>		<p>APPROVED: 1994-03-03</p> <p>F HULSCHER</p> <p>MANAGER STANDARDS &amp; QUALITY</p>	
	<p>TYPE 7 POST</p> <p>MECHANICAL DETAILS</p>				<p>SUPERSEDES:</p> <p>DRAWN EB</p> <p>CHECKED RVC 94-02-28</p> <p>PASSED B TAYLOR 1994-03-01</p>		<p>ISSUE</p> <p>1 2 3 4 5 6 7 8 9 10</p>	
					<p>VM202-15</p>			
	<p>VM202-15C.dwg 12/2009 11:58:38 AM</p>							



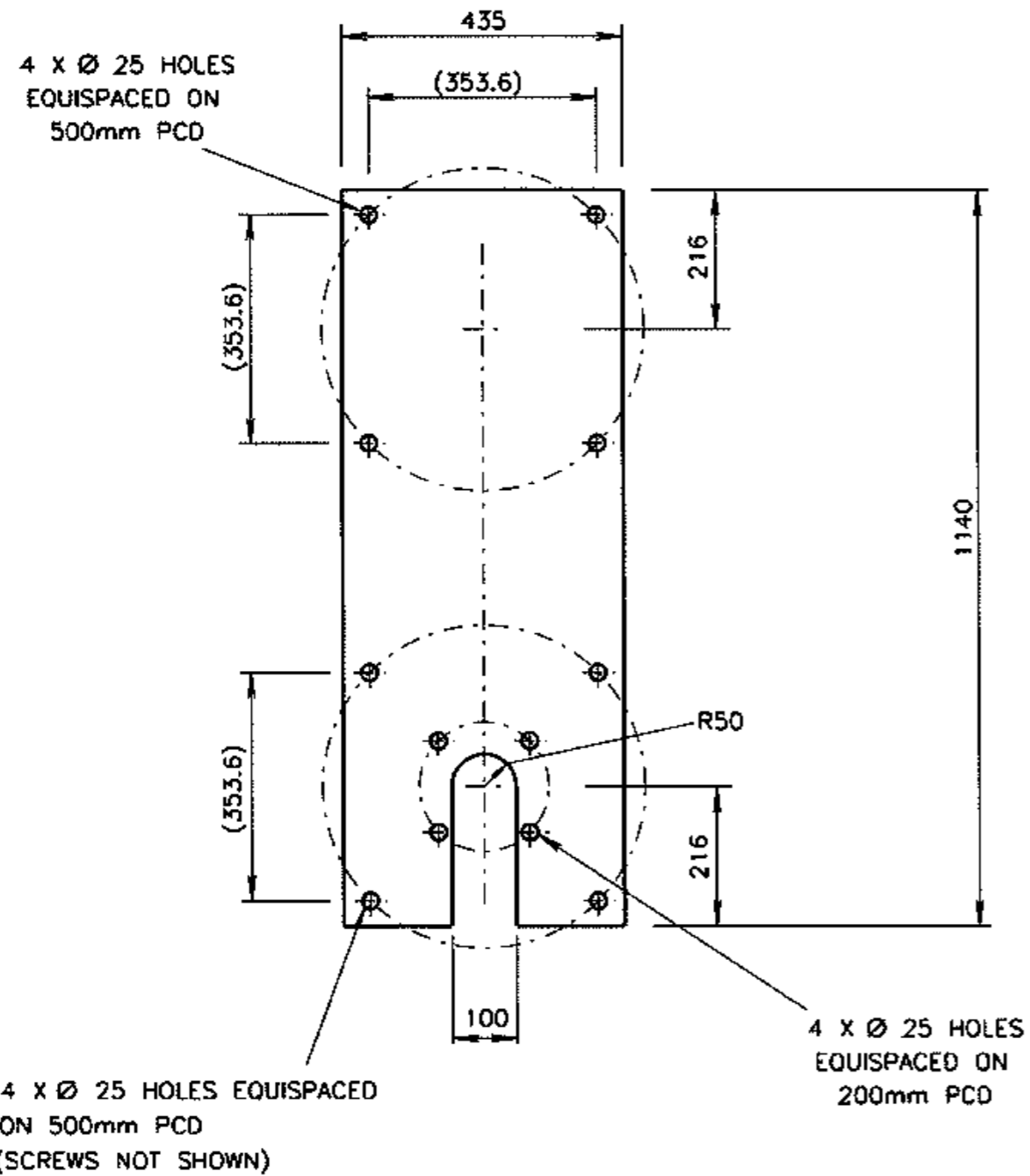
### NOTES

1. MATERIAL : 20mm THICK STEEL GRADE 250 TO AS3678.
2. FINISH : HOT DIPPED GALVANISED TO AS4680.  
BEFORE GALVANISING, DEBURR AND REMOVE SHARP EDGES.
3. TOLERANCE : LINEAR  $\pm 1$ mm, ANGULAR  $\pm 1^\circ$ .
4. ITEMS 1, 2 & 3 TO BE SUPPLIED FULLY ASSEMBLED AS SHOWN.
5. THIS PLATE MAY ALSO BE USED TO OFFSET A TYPE 7, 8 OR 13 POST ON AN EXISTING TYPE 2 FOOTING.

DIMENSIONS ARE IN MILLIMETRES

ITEM	DESCRIPTION	MATERIAL	FINISH	QTY
3	WASHER M20, LARGE SERIES TO AS1237	MILD STEEL	GALV TO AS4680	16
2	HEX NUT M20 TO AS1112	MILD STEEL	GALV TO AS1214	12
1	HEX HD SET SCREW M20x100 TO AS1111	MILD STEEL		4

A ORIGINAL ISSUE	B ISSUE 02-07-12 WELDING OF ITEM 1 DELETED. ITEM 1 WAS BOLT 80mm. QUANTITIES & NOTES REVISED. LC. BWT.	C ISSUE 02-12-15 ITEM 3 WAS STD SERIES. IH BWT.	D ISSUE 16-05-18 4xØ25 HOLES ON 200 PCD ADDED. QTY OF ITEMS 1, 2 & 3 WERE 2, 6 & 8 RESPECTIVELY. NOTE 5 ADDED. IH BWT.	E ISSUE 12-06-2018 AUST STDS UPDATED. IH BWT.	REFERENCE DRAWINGS BKT 0.7m OFFSET VM202-17	ROADS AND MARITIME SERVICES TRAFFIC SIGNALS	SCALE 1 : 10	APPROVED: 06-01-1997 T CARIOLA MANAGER EQUIPMENT & STDS
	RTA SUPPLY CAT NO 1823 0405				MECHANICAL DETAILS OF A BRACKET PLATE FOR 0.35 METRE OFFSET OF A TYPE 2 POST		SUPERSEDES:	ISSUE
							DRAWN RVC 20-12-96	
							CHECKED TC 06-01-97	
						PASSED R CEDERGREEN 06-01-97	VM202-16	



**NOTES**

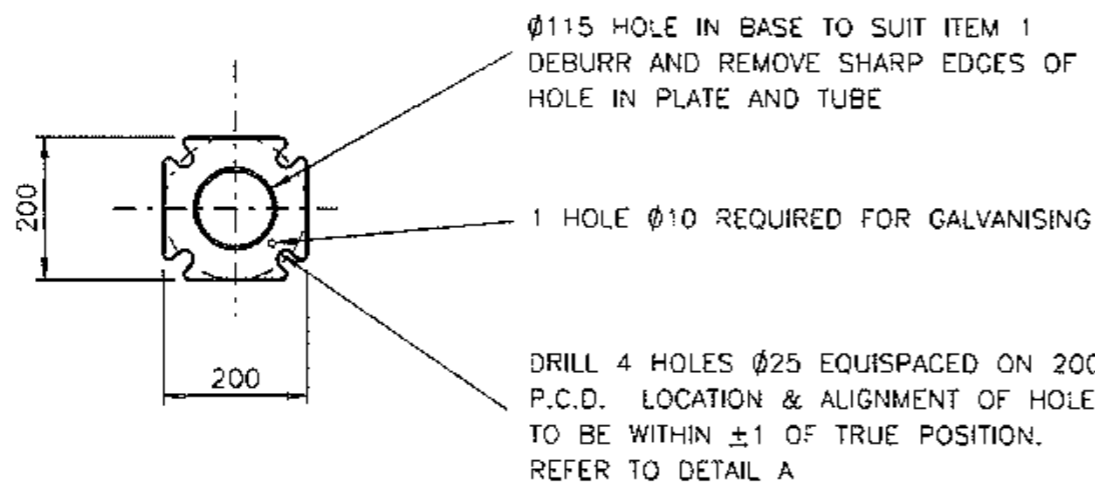
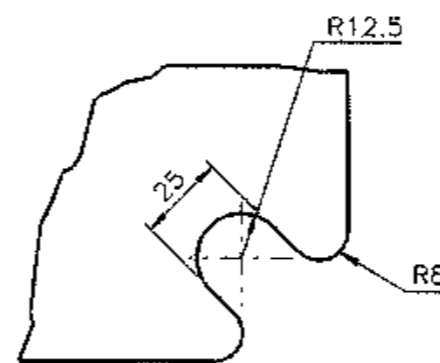
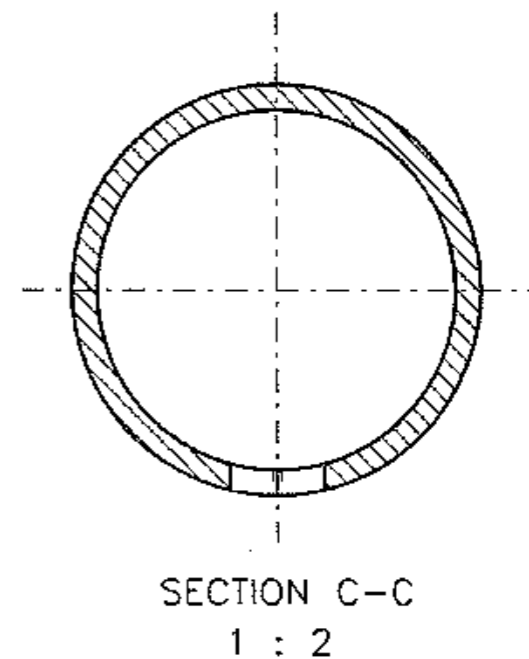
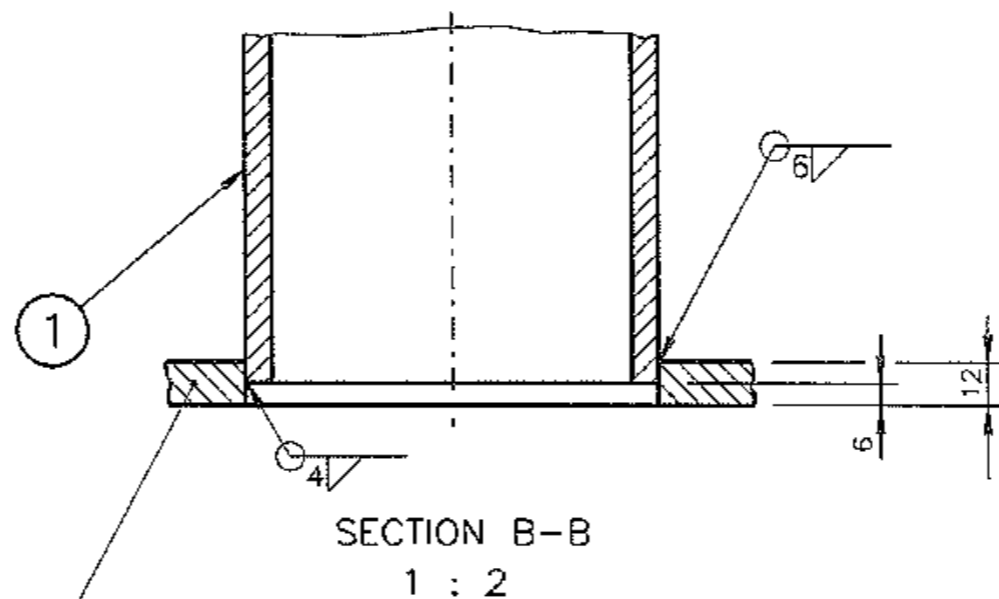
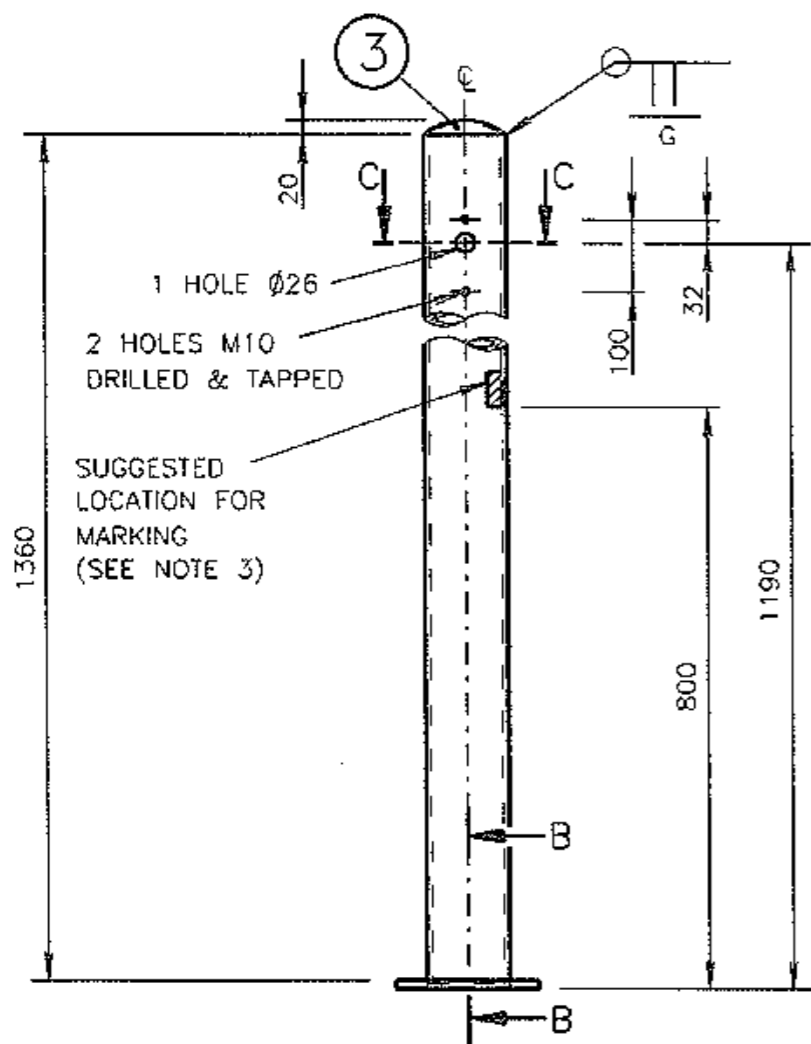
1. MATERIAL : 20mm THICK STEEL GRADE 250 TO AS3678.
2. FINISH : HOT DIPPED GALVANISED TO AS4680.  
BEFORE GALVANISING, DEBURR AND REMOVE SHARP EDGES.
3. TOLERANCE : LINEAR  $\pm 1$ mm, ANGULAR  $\pm 1^\circ$ .
4. ITEMS 1, 2 & 3 TO BE SUPPLIED FULLY ASSEMBLED AS SHOWN.
5. THIS PLATE MAY ALSO BE USED TO OFFSET A TYPE 7, 8 OR 13 POST ON AN EXISTING TYPE 2 FOOTING.

①②③  
SEE NOTE 4

ITEM	DESCRIPTION	MATERIAL	FINISH	QTY
3	WASHER M20, LARGE SERIES TO AS1237	MILD STEEL	GALV TO AS4680	16
2	HEX NUT M20 TO AS1112	MILD STEEL	GALV TO AS1214	12
1	HEX HD SET SCREW M20x100 TO AS1111	MILD STEEL		4

DIMENSIONS ARE IN MILLIMETRES

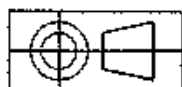
A ORIGINAL ISSUE B ISSUE 02-07-12 WELDING OF ITEM 1 DELETED. ITEM 1 WAS BOLT 80mm LONG. NOTES & QUANTITIES REVISED. L.C. BWT. C ISSUE 02-12-15 ITEM 3 WAS STD SERIES. IH BWT. D ISSUE 17-05-18 4xØ25 HOLES ON 200 PCD ADDED. NOTE 5 ADDED. IH BWT. E ISSUE 12-06-2018 AUST STDS UPDATED. IH BWT.	REFERENCE DRAWINGS BKT 0.35m OFFSET VM202-15	ROADS AND MARITIME SERVICES TRAFFIC SIGNALS	SCALE 1 : 10	APPROVED: 06-01-1997 <b>T CARIOLA</b> MANAGER EQUIPMENT & STDS	
	RTA SUPPLY CAT NO 1823 0406	<b>MECHANICAL DETAILS OF A BRACKET PLATE FOR 0.7 METRE OFFSET OF A TYPE 2 POST</b>		SUPERSEDES: DRAWN RVC 20-12-96 CHECKED TC 06-01-97 PASSED R CEDERGREEN 06-01-97	ISSUE <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E
				<b>VM202-17</b>	



**NOTES**

1. ALL WORK TO BE DONE IN ACCORDANCE WITH SPECIFICATION P/6.
2. REMOVE ALL BURRS & SHARP EDGES FROM HOLES. THE SURFACE OF TUBULAR SECTION SHALL BE SMOOTH & FREE FROM DAGS OR SHARP PROJECTIONS CAUSED BY THE GALVANISING PROCESS.
3. MANUFACTURERS IDENTIFICATION & DATE OF MANUFACTURE SHALL BE LEGIBLY AND DURABLY MARKED.
4. ALL THREADS TO BE CLEARED AFTER GALVANISING.

ITEM	DESCRIPTION	MATERIAL	FINISH	QTY	REMARKS
3	DOME 3mm THICK	MS GRADE 250	HOT DIP	1	
2	BASE PLATE	MS GRADE 250	GALVANISED	1	TO AS 2338
1	100 NB PIPE, MEDIUM	STEEL	TO AS 1650	1	TO AS 1074



**DIMENSIONS IN MILLIMETRES**

A ORIGINAL ISSUE  
 B ISSUE 2003-11-12  
 4 HOLES IN ITEM 2 WERE Ø20. RADIUS WAS 10 IN DETAIL A.  
 IF BT  
 C ISSUE 20-09-12.  
 2x M10 TAPPED HOLES NOTE 4 ADDED.  
 LC BWT

REFERENCE DRAWINGS	
FOOTING	VC002-66
HOLDING DOWN BOLT	VC002-67
ADAPTOR PLATE	VM202-21

SUPPLY CAT NO.  
18233992

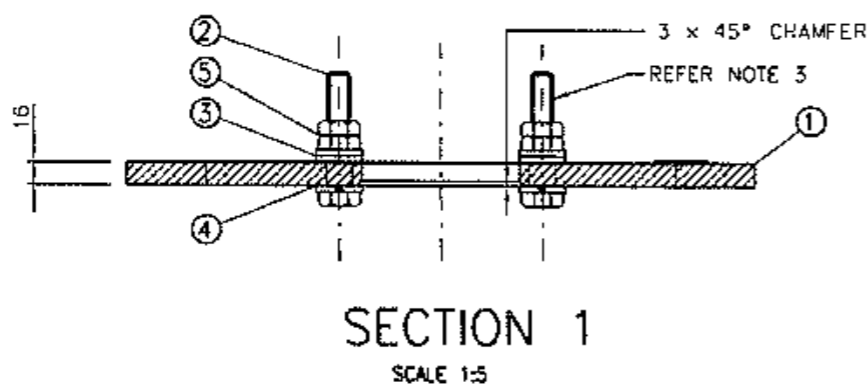
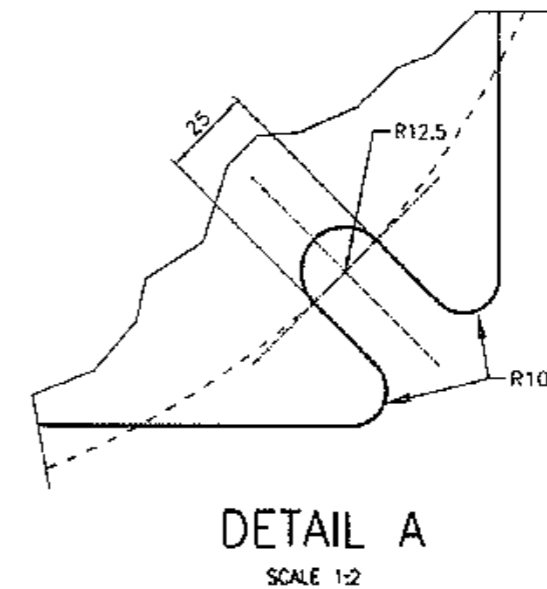
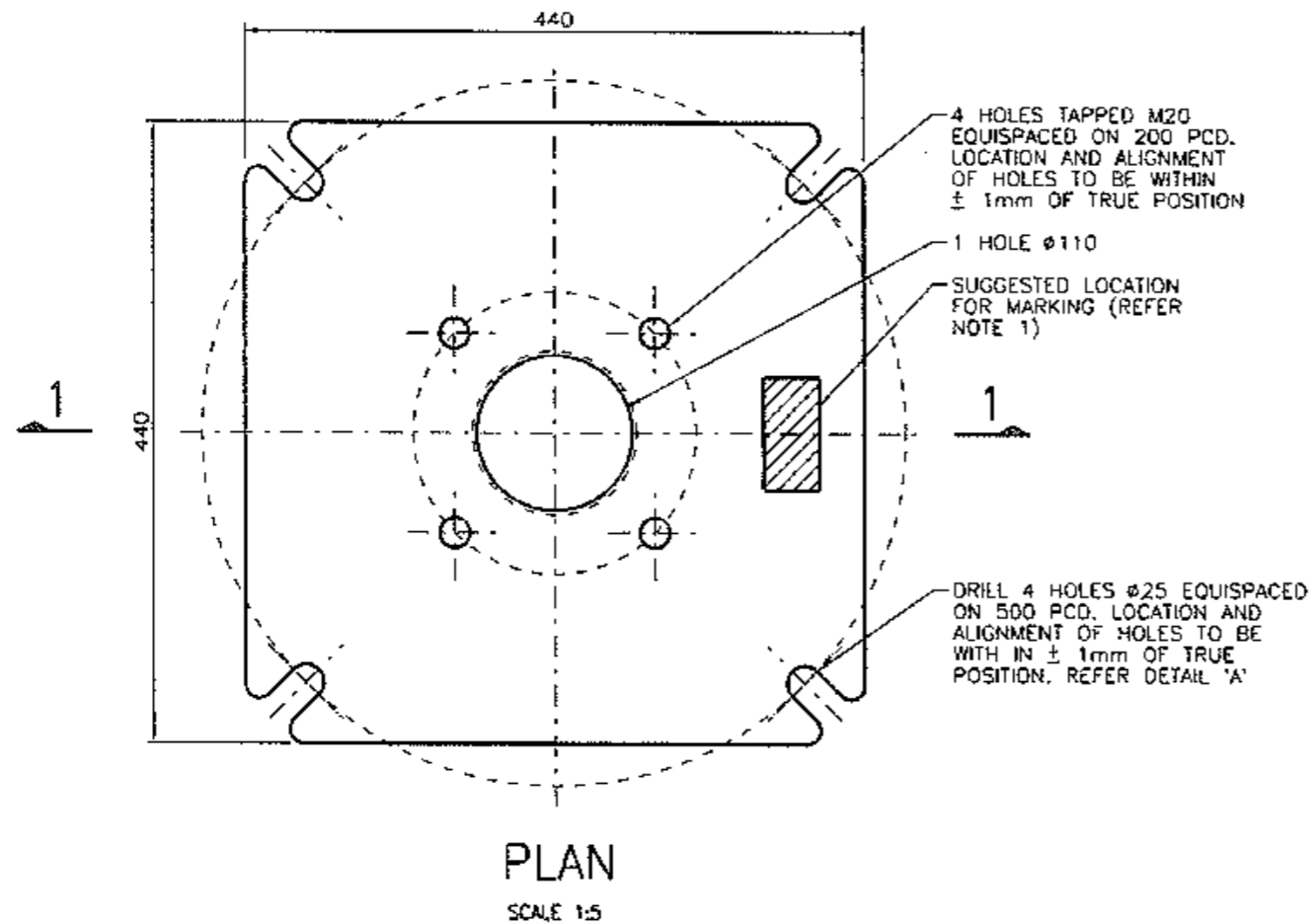
ROADS AND TRAFFIC AUTHORITY OF NSW  
TRAFFIC SIGNALS

**TYPE 13 PUSH BUTTON POST**  
(TO SUIT 200mm PCD HOLDING DOWN BOLT CENTRES)

SCALE 1:10 OR AS SHOWN	
SUPERSEDES:	
DRAWN	G.BRENNAN 7-3-03
CHECKED	I. HAYES 11-3-03
PASSED	B. TAYLOR 2003-03-11

APPROVED: 2003-03-11 <b>S. SRIVASTAVA</b> MANAGER STANDARDS & QUALITY	
ISSUE	K181C
<b>VM202-20</b>	





### NOTES

1. MANUFACTURERS IDENTIFICATION AND DATE OF MANUFACTURE SHALL BE LEGIBLY AND DURABLY MARKED.
2. ALL BURRS, SHARP EDGES TO BE REMOVED BEFORE GALVANSING.
3. ITEMS 2, 3, 4 & 5 SHALL BE SUPPLIED AND FITTED (AS SHOWN) BY THE MANUFACTURER.

5	NUT, HEX. M20 TO AS/NZS 1112	M.S.	GALV. to AS/NZS 1214	8
4	SPRING WASHER M20	SPRING STEEL	GALV. to AS/NZS 4680	4
3	FLAT WASHER M20 (LARGE SERIES) TO AS/NZS 1237	M.S.	GALV. to AS/NZS 4680	8
2	M20x80 LONG HEX. SET SCREW TO AS/NZS 1111	M.S.	GALV. to AS/NZS 1214	4
1	ADAPTOR PLATE	M.S. 250 GRADE	GALV. to AS/NZS 4680	1
ITEM	DESCRIPTION	MATERIAL	FINISH	QTY

A ORIGINAL ISSUE  
B ISSUE 24-06-15  
ITEM 1 WAS 12mm  
THICK. TYPES 7 & 8  
POSTS ADDED TO  
TITLE BLOCK & REF  
DWGS.  
BWT  
IH

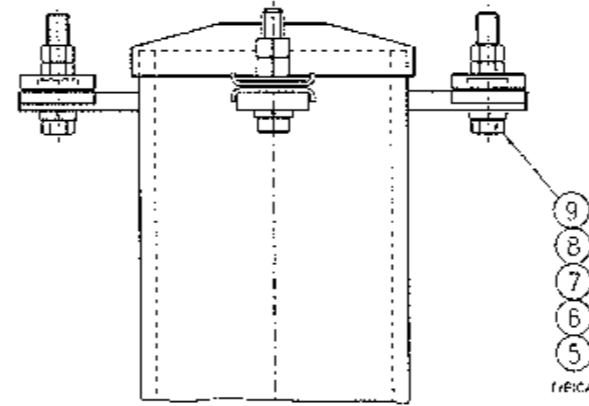
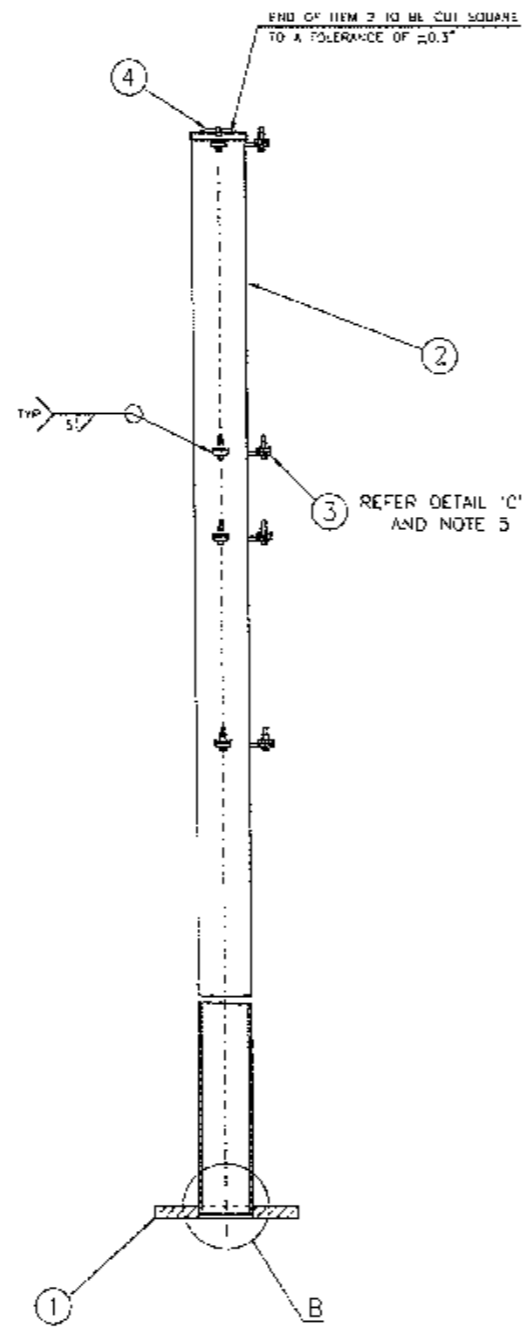
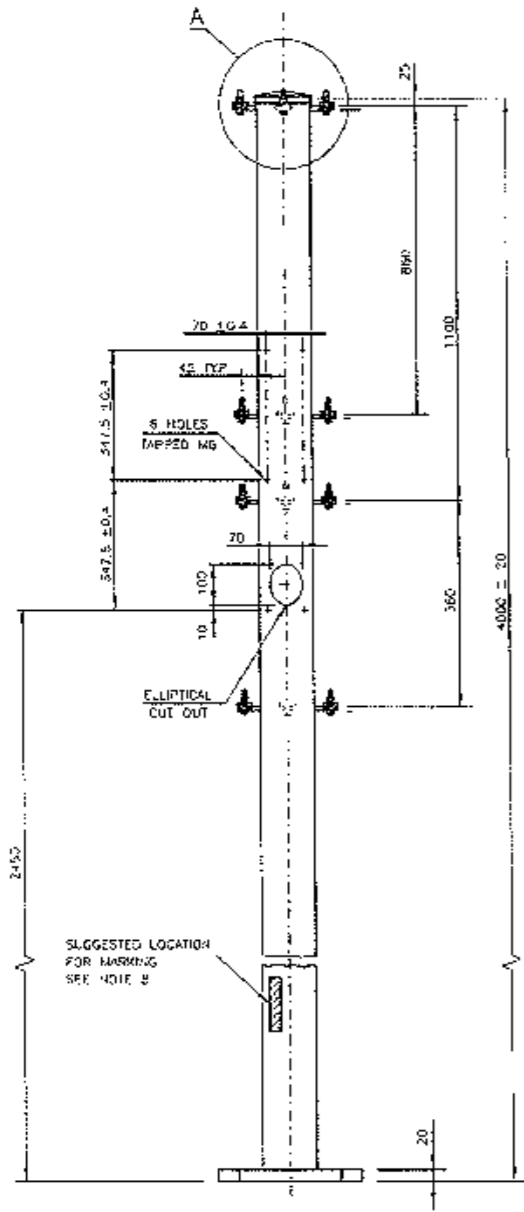
REFERENCE DRAWINGS	
Post Type 13	VM202-20
Post Type 7	VM202-15
Post Type 8	VM202-25
SUPPLY CATALOGUE No. 18231752	

ROADS AND MARITIME SERVICES  
TRAFFIC SIGNALS

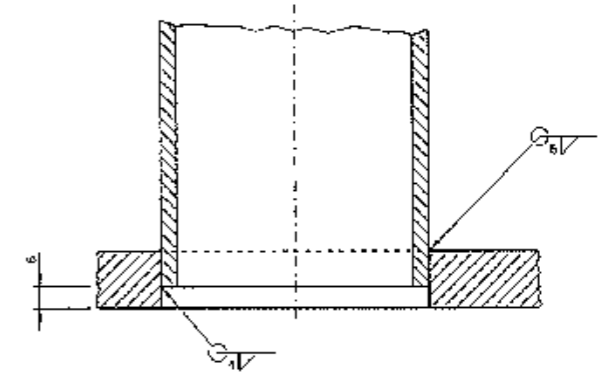
ADAPTOR PLATE FOR TYPES  
7, 8 & 13 POSTS ON  
A TYPE 2 FOOTING

SCALE AS SHOWN	
SUPERSEDES:	
DRAWN	T.K. 04/07/03
CHECKED	IH 2003-08-15
PASSED	B. TAYLOR 2003-11-25

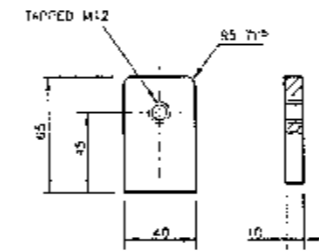
APPROVED: 2003-11-27	
S. SRIVASTAVA MANAGER EQUIPMENT & STDS	
ISSUE	1
VM202-21	



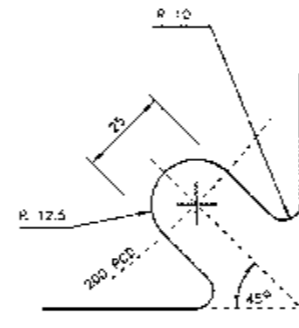
DETAIL A



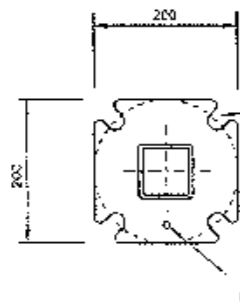
DETAIL B



DETAIL C  
(ITEM 3) SEE NOTE 5  
1 - 2



DETAIL D  
25 WIDE SLOT  
LOCATION & ALIGNMENT OF HOLES TO BE WITHIN ± 1 OF TRUE POSITION



DRILL 4 x 25 Ø HOLES EQUISPACED ON 200PØD LOCATION & ALIGNMENT TO BE WITHIN ± 1 OF TRUE POSITION REFER TO DETAIL D

1 x 10 Ø HOLE FOR GALVANIZING

NOTES

- UNLESS OTHERWISE STATED ALL WELDS TO BE CONTINUOUS FILLET AND IN ACCORDANCE WITH AS 1554 PART 1.
- TOLERANCE OF ALL POST DIMENSIONS UNLESS INDICATED OTHERWISE:
  - FOR DIMENSIONS UP TO AND INCLUDING 200: ±1
  - FOR DIMENSIONS OVER 200 AND UP TO AND INCLUDING 7000: ±2
  - FOR DIMENSIONS OVER 2000: ±4
  - ANGULAR TOLERANCE: ±1°
- FOR THE GENERAL TOLERANCE OF THE BASE PLATE DRILLING, REFER TO AS1704.
- ALL BURRS, SHARP EDGES & WELDING SCALE TO BE REMOVED BEFORE GALVANIZING.
- ALL THREADS TO BE CLEARED AFTER GALVANIZING.
- THREADED HOLE IN MOUNTING LUG (ITEM 3) TO BE 90° ±0.5° IN RELATION TO MOUNTING SURFACE, MOUNTING SURFACES OF LUGS TO BE AT 90° ±0.5° IN RELATION TO POST WALLS.
- REFER TO SPECIFICATION 2/6 FOR OTHER REQUIREMENTS FOR THE POST.
- BEFORE DELIVERY ITEMS 4, 5, 6, 7, 8 & 9 TO BE SUPPLIED AND FITTED AS SHOWN.
- MANUFACTURERS IDENTIFICATION AND DATE OF SUPPLY TO BE LEGIBLY & DURABLY MARKED.

DIMENSIONS IN MILLIMETRES

ITEM	DESCRIPTION	MATERIAL	FINISH	QTY
9	LOCK WASHER (REFER PLAN VM200-24)	S <sup>1</sup> STEEL	NATURAL	24
8	SPRING WASHER FOR M12	TO AS1908	SPRING STEEL GALV TO AS1650	12
7	HEX HEAD SCREW M12 x 80	TO AS1111	MILD STEEL GALV TO AS1214	12
6	FLAT WASHER Ø12 NORMAL SERIES	TO AS1227	MILD STEEL GALV TO AS1650	12
5	HEX FULL NUT M12	TO AS1112	MILD STEEL GALV TO AS1714	24
4	SQUARE TUBE POST CAP 100x100 DOWNPFC KITCO MS GS		GALV/BOND	1
3	MOUNTING LUG (SEE NOTE 5)	TO AS2678	MILD STEEL GALV TO AS1650	12
2	POST 100 x 100 x 40 SHS	TO AS1167	STEEL C250 REFER TO NOTES 3 & 4	1
1	BASE PLATE	TO AS2678	U.S. C350	1

A. DIMENSIONS: ISSUE

SUPPLY CATALOGUE NO. 1823 4551

REFERENCE DRAWINGS	DATE
DESIGNING OFFICER: VCC007-29	09/07/12
CHECKED BY: VNB15-42	10/07/12
LOCK WASHER: VM200-24	18/07/12
APPROVED:	
S. SRIVASTAVA	
DATE: 17/07/12	

ROADS & MARITIME SERVICES, NSW  
TRAFFIC SIGNALS

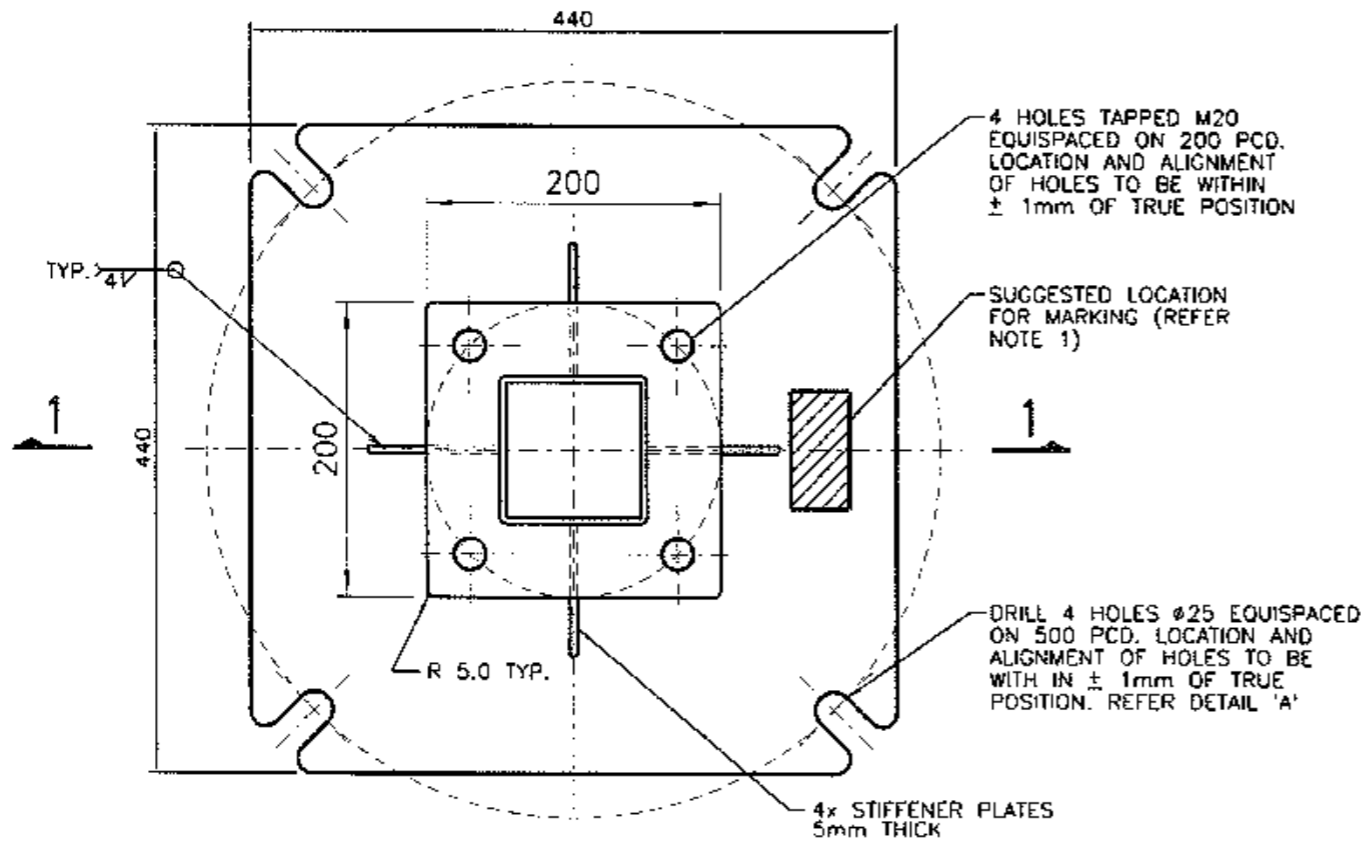
MECHANICAL AND ASSEMBLY DETAILS  
OF THE TYPE 8 POST

SHEET SIZE  
A1

SUPERSEDES ISSUE -  
REG NO

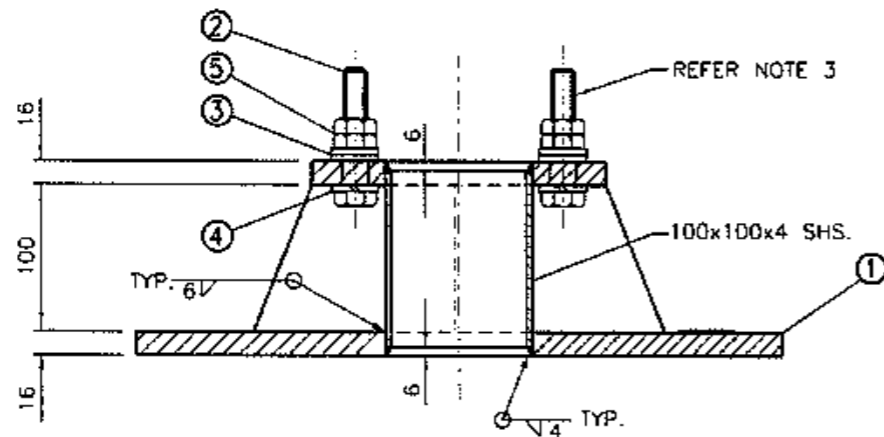
FILE NO. NO OF SHEETS SHEET NO.

SCALE: NYS, UNLESS OTHERWISE STATED  
ISSUE A  
VM202-25



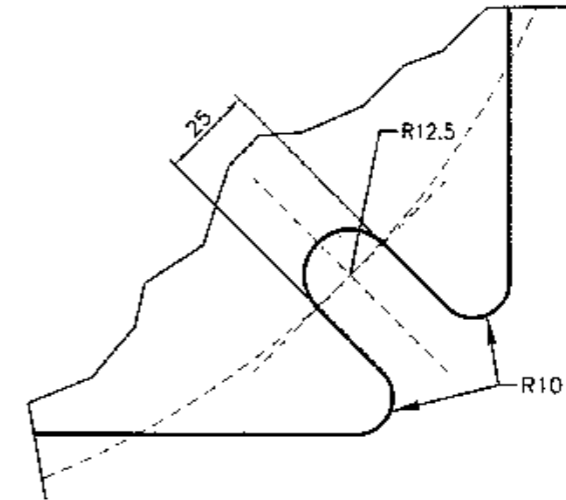
PLAN

SCALE 1:5



SECTION 1

SCALE 1:5



DETAIL A

SCALE 1:2

NOTES

1. MANUFACTURERS IDENTIFICATION AND DATE OF MANUFACTURE SHALL BE LEGIBLY AND DURABLY MARKED.
2. ALL BURRS, SHARP EDGES TO BE REMOVED BEFORE GALVANSING.
3. ITEMS 2, 3, 4 & 5 SHALL BE SUPPLIED AND FITTED (AS SHOWN) BY THE MANUFACTURER.

5	NUT, HEX. M20 TO AS/NZS 1112	M.S.	GALV. to AS/NZS 1214	B
4	SPRING WASHER M20	SPRING STEEL	GALV. to AS/NZS 4680	4
3	FLAT WASHER M20 (NORMAL SERIES) TO AS/NZS 1237	M.S.	GALV. to AS/NZS 4680	B
2	M20x80 LONG HEX. SET SCREW TO AS/NZS 1111	M.S.	GALV. to AS/NZS 1214	4
1	ADAPTOR PLATE	M.S. 250 GRADE	GALV. to AS/NZS 4680	1
ITEM	DESCRIPTION	MATERIAL	FINISH	QTY

A ORIGINAL ISSUE  
B ISSUE: 09-07-13  
TYPE 7 POST ADDED.  
CAT No ADDED.  
LC.  
C ISSUE: 18-10-16  
STIFFENER PLATES  
ADDED. TYPE 13  
ADDED TO TITLE  
BLOCK.  
DB BWT

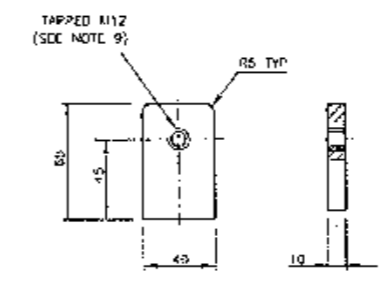
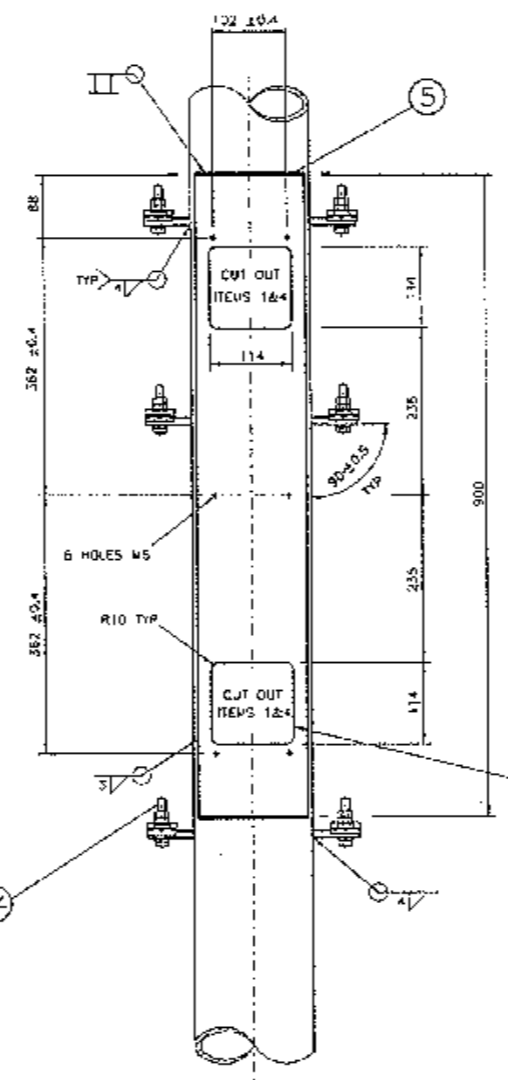
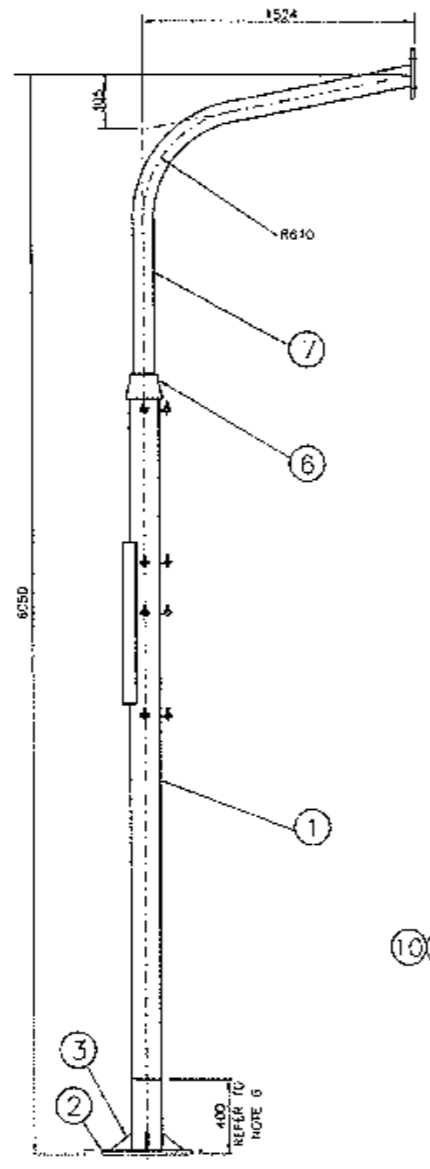
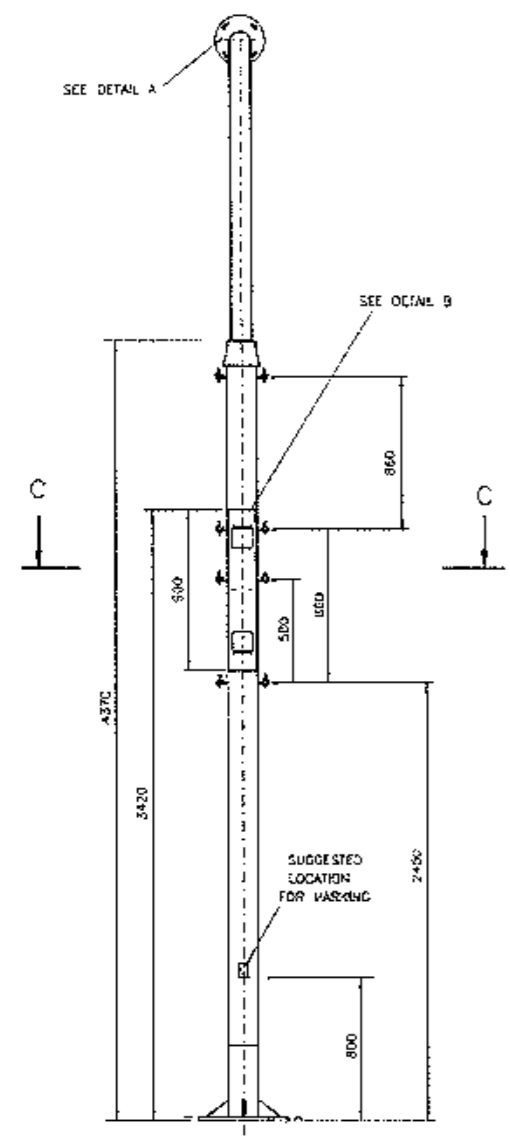
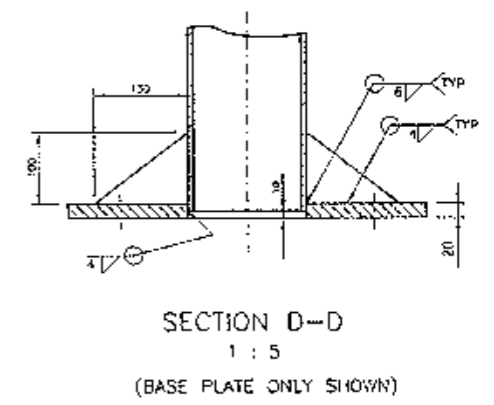
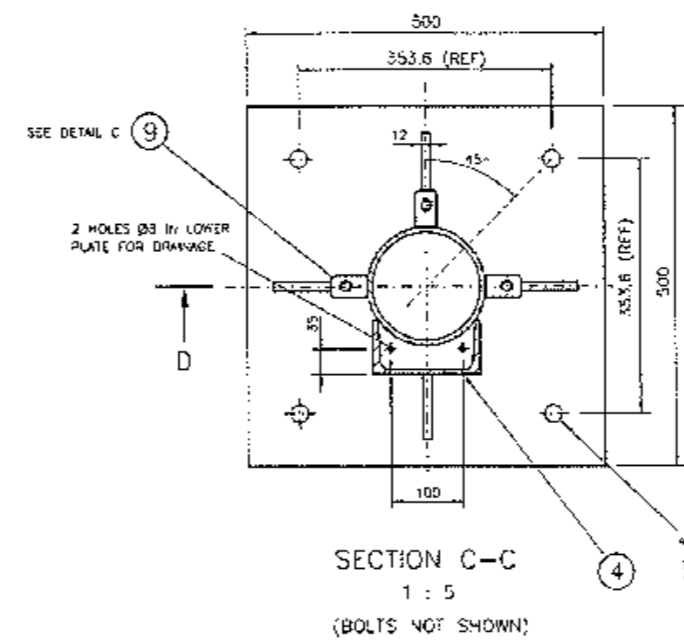
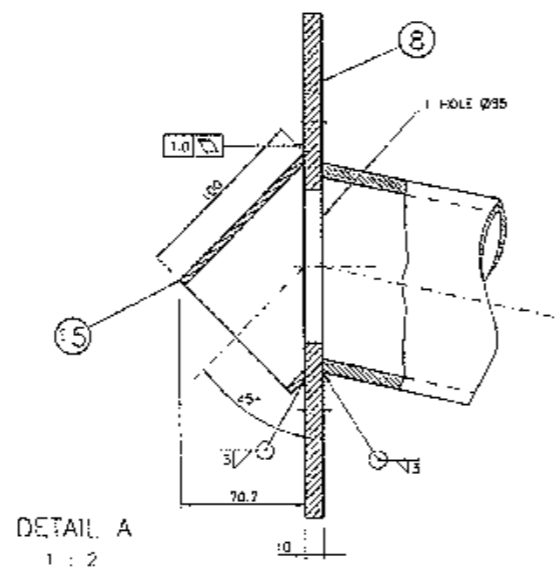
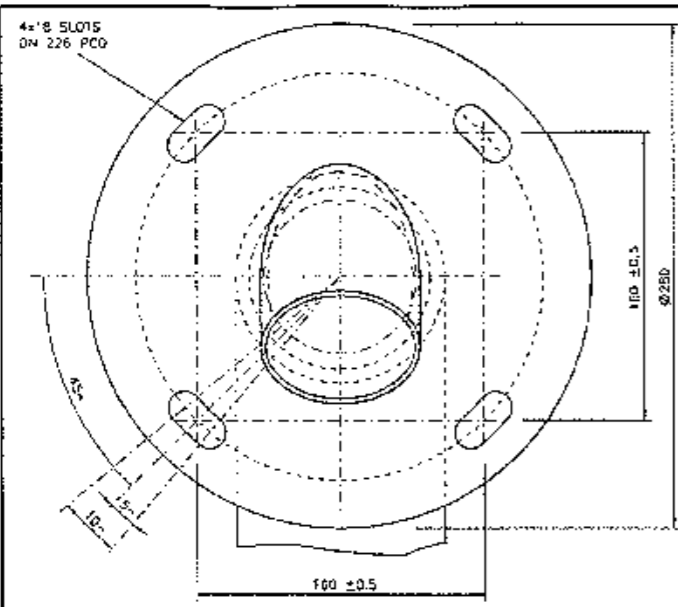
REFERENCE DRAWINGS	
Post Type 7	VM202-15
Post Type 8	VM202-25
Post Type 13	VM202-20
SUPPLY CATALOGUE No.	
18234550	

ROADS AND MARITIME SERVICES  
TRAFFIC SIGNALS

ADAPTOR STOOL FOR  
TYPE 7, 8 AND 13  
POSTS ON A TYPE 2 FOOTING

SCALE	
AS SHOWN	
SUPERSEDES:	
DRAWN	AK.
CHECKED	B.W.T.
PASSED	B. TAYLOR 24-11-10

APPROVED:	S. SRIVASTAVA	24-11-10
MANAGER EQUIPMENT & STDS		
ISSUE	A <input checked="" type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/>	
VM202-26		



**NOTES**

- UNLESS OTHERWISE STATED, ALL WELDS TO BE CONTINUOUS FILLET AND IN ACCORDANCE WITH AS 1554 PART 1
- TOLERANCE OF ALL POST DIMENSIONS UNLESS INDICATED OTHERWISE:
  - FOR DIMENSIONS UP TO AND INCLUDING 200: ±1
  - FOR DIMENSIONS OVER 200 AND UP TO AND INCLUDING 2000: ±2
  - FOR DIMENSIONS OVER 2000: ±4
- ALL BURRS, SHARP EDGES & WELDING SCALE TO BE REMOVED BEFORE GALVANISING.
- ALL THREADS TO BE CLEARED AFTER GALVANISING.
- REFER TO SPECIFICATION P/6 FOR OTHER REQUIREMENTS FOR THE POST.
- LOWER 400mm OF POST TO BE TREATED AS FOLLOWS: PAINT INSIDE AND OUTSIDE WITH "LEI-HOFORM NO 2" OR "GALVAPREP", WASH WITH WATER & APPLY ONE COAT OF DULUX AMERLOCK 400 BLACK OR GREY, OR AN APPROVED EQUIVALENT BEFORE DELIVERY.
- BEFORE DELIVERY ITEMS 10, 11, 12, 13 & 14 TO BE SUPPLIED AND FITTED AS SHOWN.
- MANUFACTURERS IDENTIFICATION AND DATE OF SUPPLY TO BE LEGIBLY & DURABLY MARKED.
- THREADED HOLE IN MOUNTING LUG (ITEM 9) TO BE 90±0.5° IN RELATION TO MOUNTING SURFACE. MOUNTING SURFACE OF LUGS TO BE AT 90±0.5° IN RELATION TO POST WALLS.
- A PAIR OF LOCK WASHERS (ITEM 14) TO BE FITTED TO EACH LUG ASSEMBLY (DIAPLE TO CEMPLE).

ITEM	DESCRIPTION	MATERIAL	FINISH	QTY
15	FLANGE HOOD CHS 85.9 x 4 TO AS1163	MILD STEEL	HOT DIPPED GALV	1
14	LOCK WASHER (REFER TO PLAN VM203-24)	STAINLESS STEEL	NATURAL	24
13	HEX NUT TO AS1112	MILD STEEL	GALV TO AS1214	24
12	FLAT WASHER FOR M12 TO AS1237	MILD STEEL	GALV TO AS1214	12
11	SPRING WASHER FOR M12 TO AS1908	SPRING STEEL	GALV TO AS1214	12
10	HEX HEAD SET SCREW M12 x 60 TO AS1131	MILD STEEL	GALV TO AS1214	12
9	MOUNTING LUG (REFER DETAIL "C") TO AS3678			12
8	UPPER MOUNTING PLATE (REFER DETAIL "A") TO AS3678			1
7	MAST-UPPER, 115 OD, 100 ID PIPE TO AS1074			1
6	CONCENTRIC REDUCER 150x100 (EXTRA STRONG)			1
5	PLATE, 3 THICK (REFER DETAIL "B") TO AS3678	MILD STEEL		2
4	MOUNTING CHANNEL, 150x75x6 TO AS3678			1
3	GUSSET TO AS3678			4
2	BASE PLATE TO AS3678			1
1	MAST-LOWER, 105 OD, 150 ID PIPE TO AS1074			1

**MECHANICAL SUB-ASSEMBLY OF MAST ARM**  
1 : 20

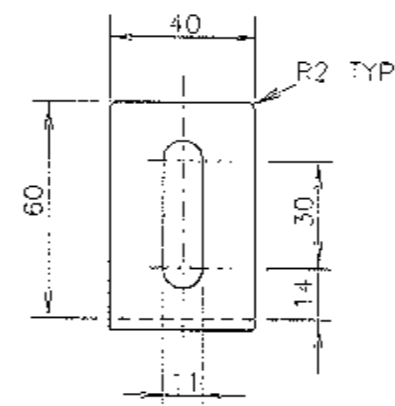
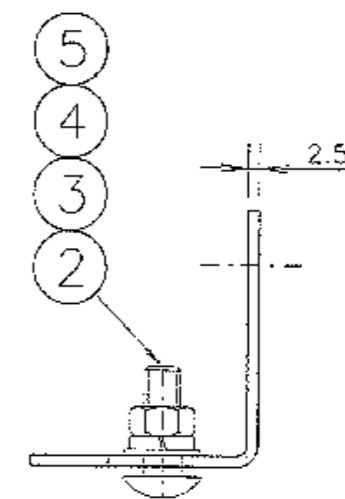
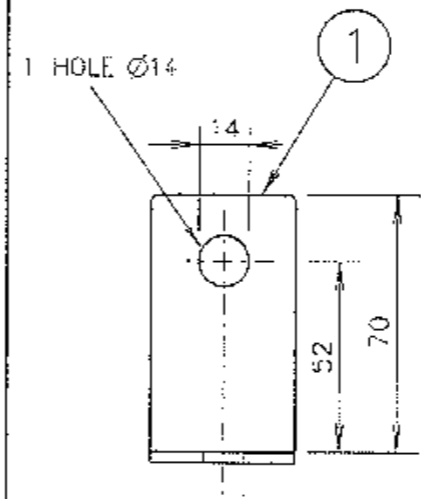
**DETAIL B**  
1 : 5

DIMENSIONS IN MILLIMETRES

1. ISSUE 2008-05-15  
A) TO 2474  
DRAWN FROM BOTTOM OF BASEPLATE TO LOWER MAST LUG W/AS 2370.  
UPPER MOUNTING PLATE (ITEM 8) DESIGN CHANGED.  
EXTRA 4 M12 LUGS.  
ADDED QUANTITIES OF ITEMS 10-14 CHANGED TO SHIT. NOTES 9 & 10 ACCORD. ITEM 15 ADDED. BH  
F. ISSUE 11-03-13  
REFERENCE FOR UPPER MOUNTING SUPPORT LUGS SUPPLY-25.  
DWT.

REFERENCE DRAWINGS	GRAPHIC	DATE
UPPER MOUNTING SUPPORT	VM203-6	ENHANCED 09
LOCK WASHER	VM203-24	PASSED 09-11-01
		APPROVED
		D. CLARK
		DATE 15/11/01

ROADS AND TRAFFIC AUTHORITY NSW	SHEET SIZE	FILE NO	SCALE	SHEET NO
TRAFFIC SIGNALS	A1		AS SHOWN	
<b>MECHANICAL DETAILS OF TYPE 4 MAST ARM</b>		SUPERSEDES ISSUE D		
		ISSUE	E/F	
		REG NO	VM203-26	



NOTES

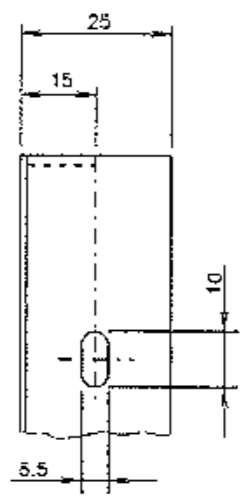
1. TOLERANCE: (a) GENERAL  $\pm 1$ .  
(b) HOLE CENTRES  $\pm 0.5$ .
2. DEBURR & REMOVE ALL SHARP EDGES & CORNERS.
3. ON DELIVERY ITEMS 2,3,4 & 5 TO BE ASSEMBLED TO ITEM 1 AS INDICATED & EACH ASSEMBLY TO BE PACKED INTO A SEPARATE PLASTIC BAG OR SHRINK PACK.
4. THE SUPPLY OF THE MOUNTING BRACKET SHALL BE IN ACCORDANCE WITH THE RELEVANT REQUIREMENTS OF SPEC VL/11.

DIMENSIONS IN MILLIMETRES

ITEM	DESCRIPTION	MATERIAL	FINISH	QTY	REMARKS
5	SPRING WASHER $\varnothing 10$	S.STEEL 316	NATURAL	1	TO AS 1968
4	FLAT WASHER $\varnothing 10$	S.STEEL 316	NATURAL	1	TO AS 1237
3	HEX NUT M10	S.STEEL 316	NATURAL	1	TO AS 1112
2	CUP HEAD SQUARE NECK BOLT M10 x 30	S.STEEL 316	BLACK	1	TO AS 1390
1	MOUNTING BRACKET	S.STEEL 316	NATURAL	1	

E ISSUE 06-06-94 JI (C)3.38 PLAN REDRAWN ON CAD. EB RVC BWT F ISSUE 10-03-04 $\varnothing 14$ HOLE DELETED ITEMS 1,2,3 AND 4 WERE MILD STEEL. CALV. G.B. B.W.T.	REFERENCE DRAWINGS	
	TARGET BRD $\varnothing 200$	VM206-14
	TARGET BRD $\varnothing 300$	VM206-21
SUPPLY CATALOGUE NO 70010160		

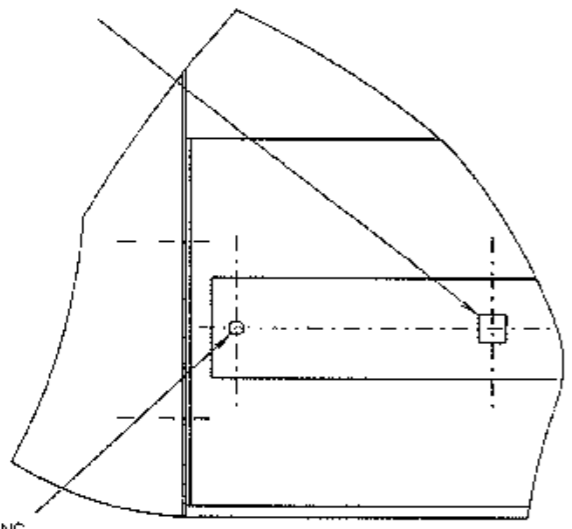
ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS		SCALE 1 : 2	APPROVED: 13-05-1983 F.R. HULSCHER SUPERVISING ENGINEER
TARGET BOARD MOUNTING BRACKET FOR SIGNAL LANTERNS		SUPERSEDES: ISSUE E	
		DRAWN LG 03-03-83	ISSUE <input checked="" type="checkbox"/> F
		CHECKED RB 07-03-83	
PASSED BWT 13-03-83	VM206-13		



DETAIL A  
SCALE 1 : 1

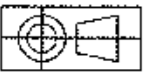
TYPICAL MOUNTING HOLE DETAIL & ORIENTATION  
(INCLUDES 3+3 & 4+4 ASPECT TARGET BOARDS)

1x SQUARE HOLE  
□ 11 ±0.3 IN BOTH REINFORCING STRAPS & PANEL ON SAME CENTRES

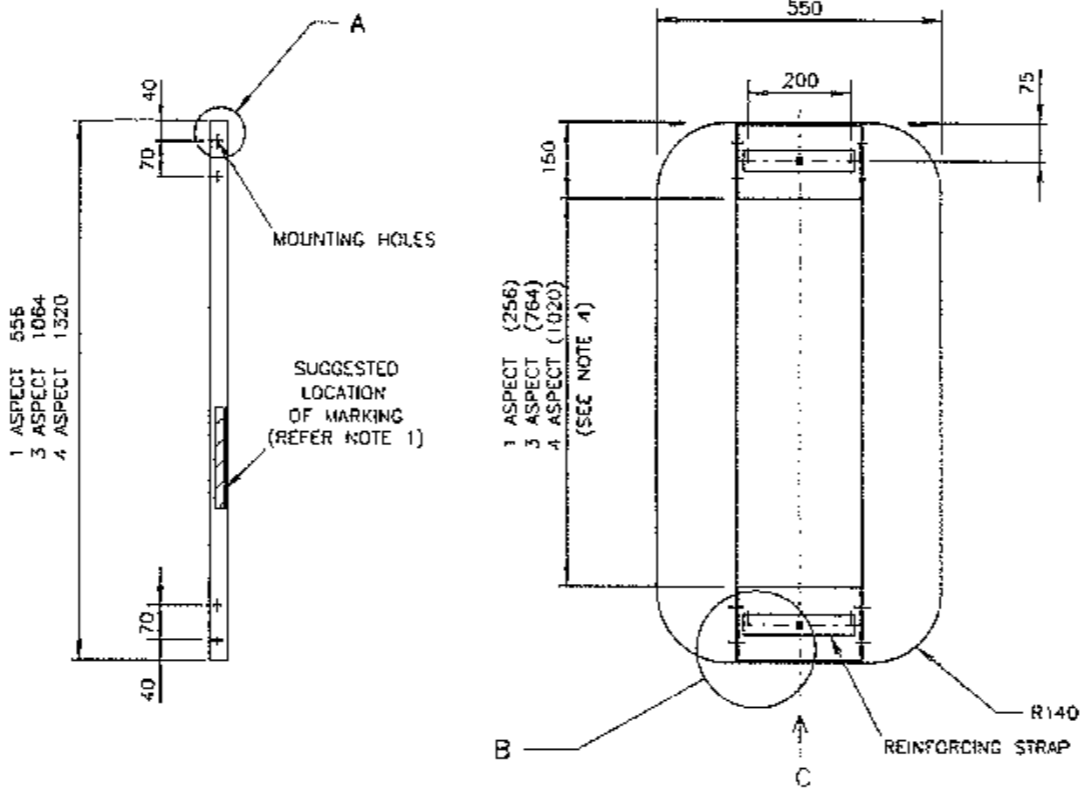


DETAIL B  
SCALE 1 : 2

BOTH REINFORCING STRAPS TO BE RIVETTED IN 2 PLACES



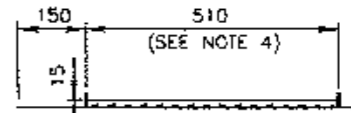
DIMENSIONS IN MILLIMETRES



VIEW C (SCALE 1:2)  
3 & 4 ASPECT TARGET BOARD

2x SQUARE HOLES  
□ 11 ±0.3 IN BOTH REINFORCING STRAPS & PANELS ON SAME CENTRES

BOTH REINFORCING STRAPS TO BE RIVETTED IN 4 PLACES



3+3 & 4+4 ASPECT TARGET BOARD

NOTES

- MANUFACTURER'S IDENTIFICATION AND DATE OF SUPPLY SHALL BE MARKED CLEARLY, INDELIBLY AND WEATHER RESISTANT.
- PACKING DETAILS:
  - RIBBED CARDBOARD OR SIMILAR PROTECTIVE PACKING TO BE APPLIED TO THE FRONT SURFACE AND EDGES OF EACH TARGET BOARD INDIVIDUALLY. THIS PACKING SHALL NOT BECOME DETACHED WHEN A BOARD IS REMOVED FROM ITS BOX OR BUNDLE.
  - BUNDLES SHALL BE SECURELY PACKAGED AND BOUND TO PROVIDE ADEQUATE PROTECTION DURING TRANSPORT AND STORAGE.
  - THE MAXIMUM NUMBER OF BOARDS PER BOX OR BUNDLE IS 8 FOR THE 1 & 3 ASPECT AND 6 FOR THE 4, 3+3 & 4+4 ASPECTS.
- REFER TO SPECIFICATION R3452 FOR OTHER REQUIREMENTS FOR THE TARGET BOARD.
- THE DIMENSIONS 250 x 256, 250 x 764 OR 250 x 1020 (1, 3 & 4 ASPECT T/BOARDS) AND 510 x 764 OR 510 x 1020 (3+3 & 4+4 ASPECT T/BOARDS) REFER TO THE RECTANGULAR APERTURE WITHIN WHICH THE LANTERNS MUST FIT.
- REMOVE ALL SHARP EDGES AND BURRS. ALL CORNERS TO BE R5 NOMINAL, EXCEPT WHERE OTHERWISE SHOWN.

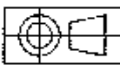
MATERIAL & FINISH

- MATERIAL: ALUMINIUM ALLOY SHEET 5251 H34 OR 5052 H34, 1.6mm THICK FOR THE SIDE PANELS AND 2mm THICK FOR THE UPPER & LOWER SEGMENTS.
- REINFORCING STRAPS: 228mm LONG FOR THE 3 & 4 ASPECTS AND 484mm LONG FOR THE 3+3 & 4+4 ASPECT TARGET BOARDS. STRAPS TO BE MADE FROM 40 x 3mm AL ALLOY 5251N34 & RIVETTED TO THE TARGET BOARD WITH NON CORROSIVE Ø4 RIVETS IN THE POSITIONS SHOWN. (RIVET BODY AT THE REAR OF TARGET BOARD)
- FINISH: MATERIAL TO BE THOROUGHLY CLEANED, ETCHED, ALUMINIUM-CHROMATED & DRIED BEFORE THE APPLICATION OF A POLYESTER-POWDER COATING OF 50µm MINIMUM THICKNESS. THE COATING HAS TO HAVE A BLACK SEMI-GLOSS FINISH & THE FULL PROCESS OF SUCH A COATING IS SUBJECT TO APPROVAL BY THE AUTHORITY. THE OUTER FRONT EDGE OF THE FRONT FACE OF THE TARGET BOARD SHALL BE CLEANED, ETCHED AND A 20mm WHITE BORDER APPLIED USING A SUITABLE PAINT. THE TARGET BOARD IS THEN TO BE BAKED DRY TO ACHIEVE MAXIMUM ADHERENCE.
- TOLERANCE OF ALL DIMENSIONS UNLESS INDICATED OTHERWISE:
  - UP TO AND INCLUDING 100mm TO BE ±0.5mm
  - OVER 100mm TO BE ±1mm
- THE TARGET BOARD SHALL BE DELIVERED COMPLETELY ASSEMBLED, INCLUDING M5 x 12 STAINLESS STEEL PAN HEAD, PHILLIPS DRIVE SCREWS, NYLOC NUTS & FOR EACH SCREW, 2 OFF, Ø5.0 ID x Ø12.7 OD FLAT WASHERS.

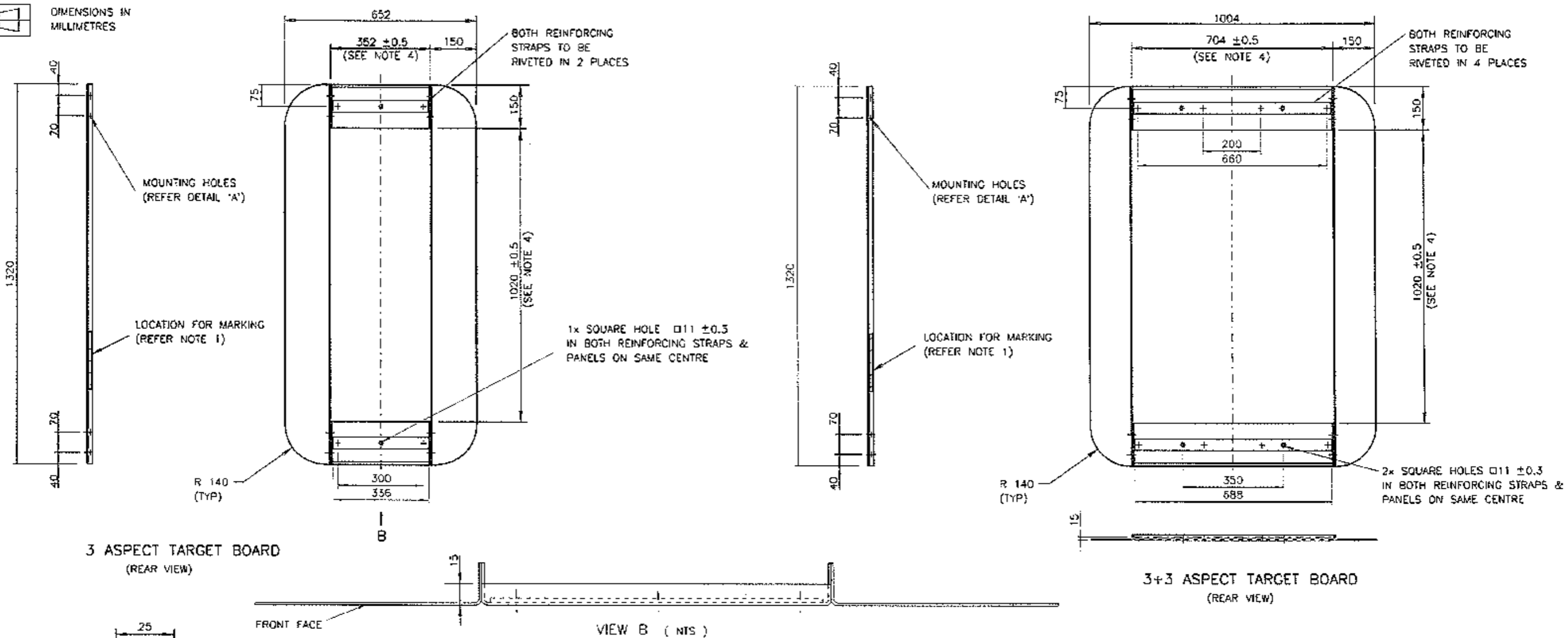
<p>'P' ISSUE 01-03-86 J/A TC 2428, 102711. PLAN REDRAWN ON CAD. REINFORCING STRAP LENGTH PUT ON PLAN. WHITE BORDER TO BE BAKED. DIMENSIONS FOR SINGLE ASPECT TARGET BOARD ADDED. TOLERANCES CLARIFIED. RVC BWT</p> <p>'C' ISSUE 10-03-04 REINFORCING STRAPS WERE MILD STEEL BAW &amp; GALVANISED. C.B.</p> <p>'R' ISSUE 21-02-11 4+4 ASPECT TARGET BOARD DETAILS ADDED. L.C.</p> <p>'S' ISSUE 05-03-13 DIMENSIONS REVISED FOR STANDARDISATION. BWT, L.C.</p> <p>'T' ISSUE 26-03-13 TYPE 5052 H34 ADDED TO MATERIAL DETAILS. L.C.</p> <p>'U' ISSUE 29-08-13 DIA 15 HOLES IN TOP &amp; BOTTOM PANELS CHANGED TO 17mm SQUARE HOLES TO MATCH THE REINFORCING STRAPS. L.C.</p>	<p>REFERENCE DRAWINGS</p> <table border="1"> <tr> <td>TARGET BRD BRKT</td> <td>VM206-15</td> </tr> <tr> <td>TARGET BRD Ø300</td> <td>VM206-21</td> </tr> <tr> <td>BLANKING DISC</td> <td>VM206-39</td> </tr> </table> <p>RTA SUPPLY CAT NO</p> <table border="1"> <tr> <td>1 ASPECT:</td> <td>70010662</td> </tr> <tr> <td>3 ASPECT:</td> <td>70010890</td> </tr> <tr> <td>4 ASPECT:</td> <td>70010739</td> </tr> <tr> <td>3+3 ASPECT:</td> <td>70010712</td> </tr> <tr> <td>4+4 ASPECT:</td> <td>70010723</td> </tr> </table>	TARGET BRD BRKT	VM206-15	TARGET BRD Ø300	VM206-21	BLANKING DISC	VM206-39	1 ASPECT:	70010662	3 ASPECT:	70010890	4 ASPECT:	70010739	3+3 ASPECT:	70010712	4+4 ASPECT:	70010723	<p>DRAWN DH 10-10-85</p> <p>CHECKED RB 14-10-85</p> <p>PASSED BWT 21-10-85</p> <p>APPROVED</p> <p>FR. HULSCHER</p> <p>DATE 22-10-1985</p>
TARGET BRD BRKT	VM206-15																	
TARGET BRD Ø300	VM206-21																	
BLANKING DISC	VM206-39																	
1 ASPECT:	70010662																	
3 ASPECT:	70010890																	
4 ASPECT:	70010739																	
3+3 ASPECT:	70010712																	
4+4 ASPECT:	70010723																	

<p>ROADS AND TRAFFIC AUTHORITY NSW TRAFFIC SIGNALS</p> <p style="font-size: 1.2em; font-weight: bold;">TARGET BOARD DETAILS FOR Ø200 MM TRAFFIC SIGNAL LANTERN</p>		<p>SHEET SIZE A2</p> <p>FILE NO</p> <p>SCALE 1:10 OR AS SHOWN</p> <p>SHEET NO</p>
<p>SUPERSEDES ISSUE 0</p> <p>REG NO</p>		<p>ISSUE 0</p> <p style="font-size: 1.5em; font-weight: bold;">VM206-14</p>

<p>ROADS AND TRAFFIC AUTHORITY NSW TRAFFIC SIGNALS</p> <p style="font-size: 1.2em; font-weight: bold;">TARGET BOARD DETAILS FOR Ø200 MM TRAFFIC SIGNAL LANTERN</p>		<p>SHEET SIZE A2</p> <p>FILE NO</p> <p>SCALE 1:10 OR AS SHOWN</p> <p>SHEET NO</p>
<p>SUPERSEDES ISSUE 0</p> <p>REG NO</p>		<p>ISSUE 0</p> <p style="font-size: 1.5em; font-weight: bold;">VM206-14</p>



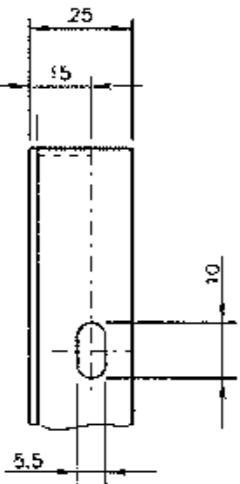
DIMENSIONS IN MILLIMETRES



3 ASPECT TARGET BOARD (REAR VIEW)

3+3 ASPECT TARGET BOARD (REAR VIEW)

VIEW B (NTS)



DETAIL A

SCALE 1 : 1

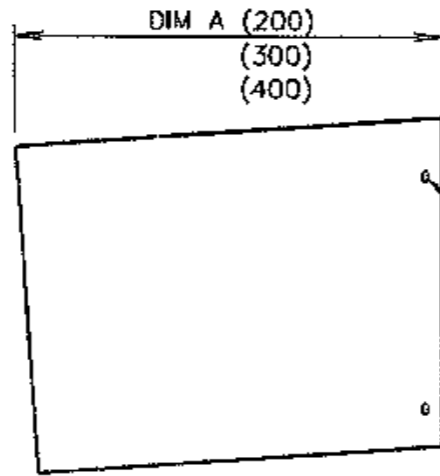
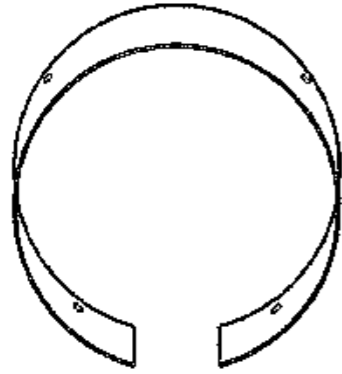
NOTES:

1. MANUFACTURER'S IDENTIFICATION AND DATE OF SUPPLY SHALL BE MARKED CLEARLY, INDELIBLY AND WEATHER RESISTANT.
2. PACKING DETAILS:
  - (i) RIBBED CARDBOARD OR SIMILAR PROTECTIVE PACKING TO BE APPLIED TO THE FRONT SURFACE AND EDGES OF EACH TARGET BOARD INDIVIDUALLY. THIS PACKING SHALL NOT BECOME DETACHED WHEN A BOARD IS REMOVED FROM ITS BOX OR BUNDLE.
  - (ii) BUNDLES SHALL BE SECURELY PACKAGED AND BOUND TO PROVIDE ADEQUATE PROTECTION DURING TRANSPORT AND STORAGE.
  - (iii) THE MAXIMUM NUMBER OF BOARDS PER BOX OR BUNDLE IS 6 FOR THE 3 ASPECT AND 6 FOR THE 3+3 ASPECTS.
3. THE SUPPLY OF THE TARGET BOARD SHALL BE IN ACCORDANCE WITH THE RELEVANT REQUIREMENTS OF SPECIFICATION R3452.
4. THE DIMENSIONS 352 x 1020 (3 ASPECT TARGET BOARDS) AND 704 x 1020 (3+3 ASPECT TARGET BOARDS) REFER TO THE RECTANGULAR APERTURE WITHIN WHICH LANTERNS MUST FIT.
5. REMOVE ALL SHARP EDGES AND BURRS. ALL CORNERS TO BE R5 NOMINAL, EXCEPT WHERE OTHERWISE SHOWN.

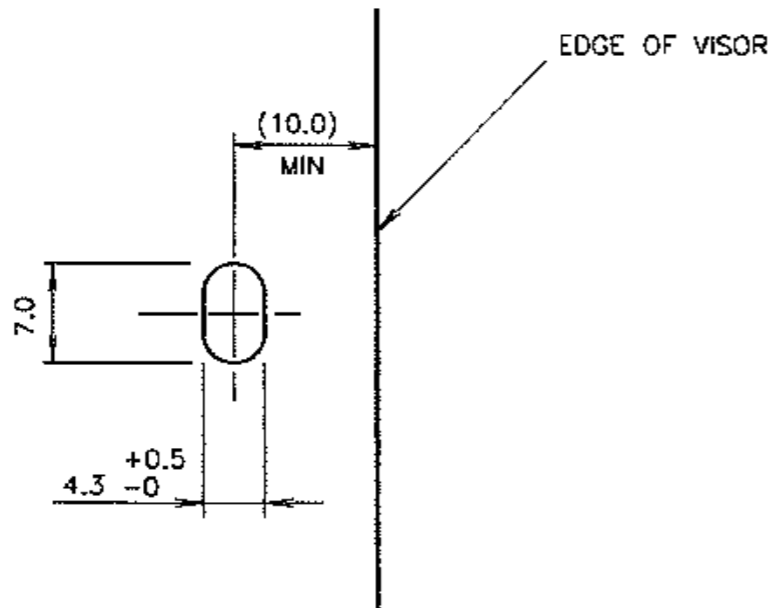
MATERIAL & FINISH:

- a) MATERIAL: ALUMINIUM ALLOY SHEET 5251 H34 OR 5052 H34, 1.6 THICK FOR SIDE PANEL, 2.0 THICK FOR UPPER & LOWER SEGMENTS & 3.0 THICK FOR REINFORCING STRAPS 40 WIDE STRAPS TO BE RIVETED TO BOARD WITH 04 NON CORROSIVE RIVETS IN POSITIONS SHOWN (RIVET BODY AT THE REAR OF THE BOARD).
- b) FINISH: MATERIAL TO BE THOROUGHLY CLEANED, ETCHED, ALUMINIUM-CHROMATED & DRIED BEFORE THE APPLICATION OF A POLYESTER-POWDER COATING OF 50µm MINIMUM THICKNESS. THE COATING HAS TO HAVE A BLACK SEMI-GLOSS FINISH & THE FULL PROCESS OF SUCH A COATING IS SUBJECT TO APPROVAL BY THE AUTHORITY (eg. POWDER COATERS P/L PROCESS OR SIMILAR). A 20mm WHITE BORDER SHALL BE APPLIED AROUND THE OUTER FRONT FACE EDGE OF THE TARGET BOARD.
- c) TOLERANCE FOR HOLE CENTRES: ±0.5, OTHER DIMENSIONS ±1.0 UNLESS OTHERWISE SHOWN.
- d) THE TARGET BOARD SHALL BE DELIVERED COMPLETELY ASSEMBLED USING 8 ONLY STAINLESS STEEL M5x12 LONG, PAN HEAD, PHILLIPS DRIVE SCREWS, NYLOC NUTS & FOR EACH SCREW, 2 OFF Ø5.0 ID x Ø12.7 OD FLAT WASHERS.

I ISSUE 2000-03-07 v/1 TC2428 PLAN REDRAWN USING 3RD ANGLE PROJECTION. EB/HH BWT.	J ISSUE 2002-04-22 TARGET BOARD DESIGN CHANGED TO USE THE METHOD OF MOUNTING THE LANTERN USING MOUNTING BRACKET DWG VM206-13 KD RVC BWT.	K ISSUE 05-03-2013 DIMENSIONS REVISED FOR STANDARDISATION. LC.	L ISSUE 26-03-2015 TYPE 5052 H34 ADDED TO MATERIAL DETAILS. VIEW 'B' ADDED. LC.	M ISSUE 29-08-2015 DIA 15 HOLES IN TOP & BOTTOM PANELS CHANGED TO 11mm SQUARE HOLES TO MATCH REINFORCING STRAPS. LC.	REFERENCE DRAWINGS	DRAWN JB 23-11-81	ROADS AND TRAFFIC AUTHORITY NSW TRAFFIC SIGNALS	SHEET SIZE	FILE NO	SCALE	SHEET NO	
					TARGET BOARD FOR Ø300 SIGNAL LANTERN	VM206-14		CHECKED RB 23-11-81	A2		1 : 10 OR AS SHOWN	
					TARGET BOARD MFG EXT SIGNAL LANTERN	VM206-13		PASSED BWT 22-12-81	SUPERSEDES ISSUE 1 ISSUE <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
					RTA SUPPLY CAT No'S:			APPROVED	REG NO			
3 ASPECT: 70010135		D. CLARK (SGN)	TARGET BOARD DETAILS FOR Ø300 TRAFFIC SIGNAL LANTERNS				VM206-21					
3+3 ASPECT: 70010119		DATE 23-12-81										



NOT TO SCALE



DETAIL A  
SLOT DETAIL  
SCALE 2:1



ALL DIMENSIONS IN MILLIMETRES

## NOTES

1. MATERIAL: (a) UV STABILISED POLYPROPYLENE (FLAMMABILITY CAT. V-2) WITH A MAXIMUM THICKNESS OF 2mm (SEE NOTE 3).  
OR (b) 1.2mm ALUMINIUM ALLOY (SEE NOTE 4).
2. FINISH: BLACK MATT.  
THE VISOR IS TO BE DESIGNED TO HAVE A LIFE OF AT LEAST 10 YEARS EXPOSED TO WEATHER AND A POLLUTION ENVIRONMENT ASSOCIATED WITH HEAVY VEHICULAR TRAFFIC.
3. SPECIAL REQUIREMENTS FOR POLYPROPYLENE VISORS:  
THE PRECISE DESCRIPTIONS AND QUANTITIES OF THE ADDITIVE MATERIALS USED IN THE POLYPROPYLENE BLEND FOR THE VISOR MUST BE DOCUMENTED. THE MATERIALS MUST BE PROCESSED TO MANUFACTURER'S GUIDELINES.  
THE FULL SYSTEM OF MANUFACTURE TO BE DOCUMENTED ALONG WITH QUALITY CONTROL TESTS THAT DEMONSTRATE A CONTROLLED PROCESS.  
TESTS SHALL BE CARRIED OUT AND DOCUMENTED TO DEMONSTRATE THE AGING CAPABILITY UNDER THE CONDITIONS SPECIFIED IN NOTE (2) AND THE ABSENCE OF MATERIAL STRESS IN THE FINISHED PRODUCT.  
ANY VARIATION TO THE CONSTITUENT MATERIALS OR TESTS MUST HAVE PRIOR RTA APPROVAL.  
THE LENGTH LIMIT OF UP TO & INCLUDING 300mm APPLIES TO THE POLYPROPYLENE VISORS.
4. SPECIAL REQUIREMENTS FOR ALUMINIUM VISORS:  
THE VISOR MUST BE THOROUGHLY CLEANED, ETCHED, ALUMINIUM CHROMATED AND DRIED BEFORE THE APPLICATION OF A POLYESTER POWDER COATING OF 50µm MINIMUM THICKNESS.  
THE FULL PROCESS OF SUCH A COATING IS SUBJECT TO RTA APPROVAL.
5. TOLERANCE OF ALL VISOR DIMENSIONS UNLESS INDICATED OTHERWISE:
  - FOR DIMENSIONS UP TO AND INCLUDING 10: ±0.5
  - FOR DIMENSIONS OVER 10: ±1
  - ANGULAR TOLERANCE: ±1°
6. MANUFACTURER'S IDENTIFICATION AND DATE OF SUPPLY SHALL BE MARKED INDELIBLY, CLEARLY AND WEATHER RESISTANT.
7. REFER TO SPECIFICATION VL/11 FOR OTHER REQUIREMENTS FOR THE VISOR.
8. FIVE FASTENERS SHALL BE SUPPLIED WITH EACH VISOR, AND SECURELY ATTACHED SO THAT THEY DO NOT BECOME DISLODGED DURING TRANSPORTATION OR STORAGE.

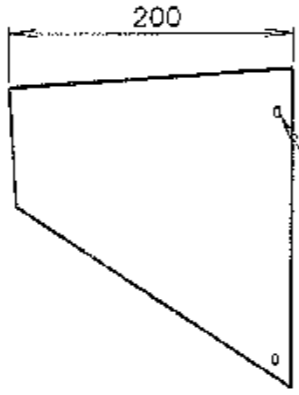
K ISSUE 1995-08-08 JI TC2340 NOTES 2, 3 & 5 ADDED. RVC L ISSUE 19.12.07 IN NOTE 2, FINISH WAS SEMI-GLOSS. LEVEL 2 FLAMMABILITY LEVEL 1 ADDED TO NOTE 1 DIM A 400 LONG VISOR & CAT. NO. ADDED. MC M ISSUE 28-06-2012 LENGTH LIMIT OF UP TO & INCLUDING 300mm FOR POLY- PROPYLENE VISORS ADDED TO NOTE 3. BWT. LC.	REFERENCE PLANS		ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS  <b>CLOSED VISOR TYPE B</b> <b>FOR Ø200 SIGNAL LANTERN</b>	SCALE AS SHOWN		Approved: 1990-07-05 F HULSCHER MANAGER EQUIPMENT & STDS			
	SIGNAL LENS VM207-19			Supersedes: ISSUE J		Drown JPG 1990-07-04		ISSUE <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> M <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
	ARROW SYMBOL VM208-27			Checked IH		Passed BWT 1990-07-04		VM208-29	
	RTA SUPPLY CAT NOS								
DIM A = 200 : 7002 3822									
DIM A = 300 : 7002 3890									
DIM A = 400 : 7002 3891									



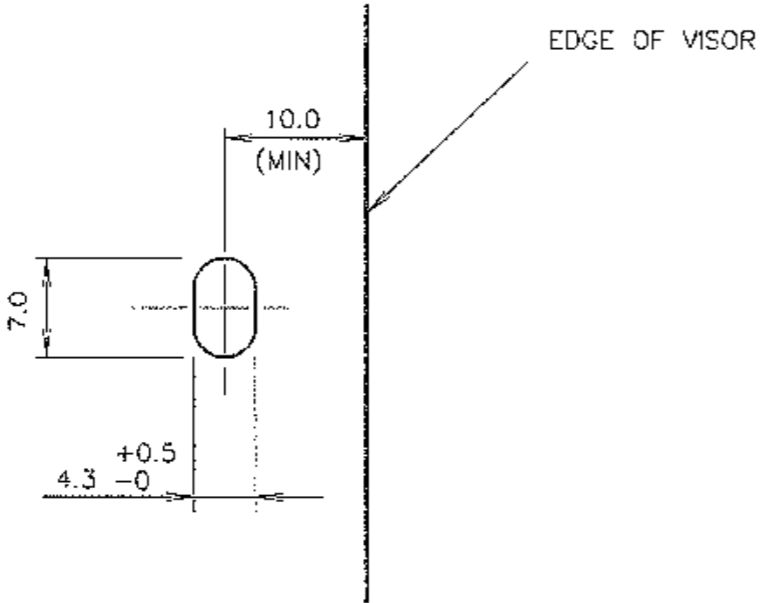
# NOTES



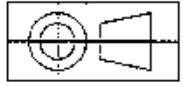
VISOR  
SIDE VIEW  
SCALE 1:5



REFER DETAIL A  
4 OFF REQUIRED



DETAIL A  
SLOT DETAIL  
SCALE 2:1



ALL DIMENSIONS IN MILLIMETRES

1. MATERIAL: (a) UV STABILISED POLYPROPYLENE (FLAMMABILITY CAT. V-2) WITH A MAXIMUM THICKNESS OF 2mm (SEE NOTE 3).  
OR (b) 1.2mm ALUMINIUM ALLOY (SEE NOTE 4).

2. FINISH: BLACK MATT.

THE VISOR IS TO BE DESIGNED TO HAVE A LIFE OF AT LEAST 10 YEARS EXPOSED TO WEATHER AND A POLLUTION ENVIRONMENT ASSOCIATED WITH HEAVY VEHICULAR TRAFFIC.

THE PRECISE DESCRIPTIONS AND QUANTITIES OF THE ADDITIVE MATERIALS USED IN THE POLYPROPYLENE BLEND FOR THE VISOR MUST BE DOCUMENTED.

THE MATERIALS MUST BE PROCESSED TO MANUFACTURER'S GUIDELINES.

THE FULL SYSTEM OF MANUFACTURE TO BE DOCUMENTED ALONG WITH QUALITY CONTROL TESTS THAT DEMONSTRATE A CONTROLLED PROCESS.

TESTS SHALL BE CARRIED OUT AND DOCUMENTED TO DEMONSTRATE THE AGING CAPABILITY UNDER THE CONDITIONS SPECIFIED IN NOTE (2) AND THE ABSENCE OF MATERIAL STRESS IN THE FINISHED PRODUCT.

ANY VARIATION TO THE CONSTITUENT MATERIALS OR TESTS MUST HAVE PRIOR RTA APPROVAL.

4. SPECIAL REQUIREMENTS FOR ALUMINIUM VISORS:

THE VISOR MUST BE THOROUGHLY CLEANED, ETCHED, ALUMINIUM CHROMATED AND DRIED BEFORE THE APPLICATION OF A POLYESTER POWDER COATING OF 50um MINIMUM THICKNESS.

THE FULL PROCESS OF SUCH A COATING IS SUBJECT TO RTA APPROVAL.

5. TOLERANCE OF ALL VISOR DIMENSIONS UNLESS INDICATED OTHERWISE:

- FOR DIMENSIONS UP TO AND INCLUDING 10:  $\pm 0.5$
- FOR DIMENSIONS OVER 10:  $\pm 1$
- ANGULAR TOLERANCE:  $\pm 1^\circ$

6. MANUFACTURER'S IDENTIFICATION AND DATE OF SUPPLY SHALL BE MARKED INDELIBLY, CLEARLY AND WEATHER RESISTANT.

7. REFER TO SPECIFICATION VL/11 FOR OTHER REQUIREMENTS FOR THE VISOR.

8. FIVE FASTENERS SHALL BE SUPPLIED WITH EACH VISOR, AND SECURELY ATTACHED SO THAT THEY DO NOT BECOME DISLODGED DURING TRANSPORTATION OR STORAGE.

I ISSUE 04-07-90 PLAN  
JF TC1028 REDRAWN.  
JPG BWT  
J ISSUE 29-06-95  
JI TC2340 NOTES  
2, 3 & 5 ADDED.  
RVC TY  
K ISSUE 20.12.07  
IN NOTE 2, FINISH  
WAS SEMI-GLOSS.  
FLAMMABILITY  
LEVEL 2 ADDED  
TO NOTE 1e.  
MC IH BWT

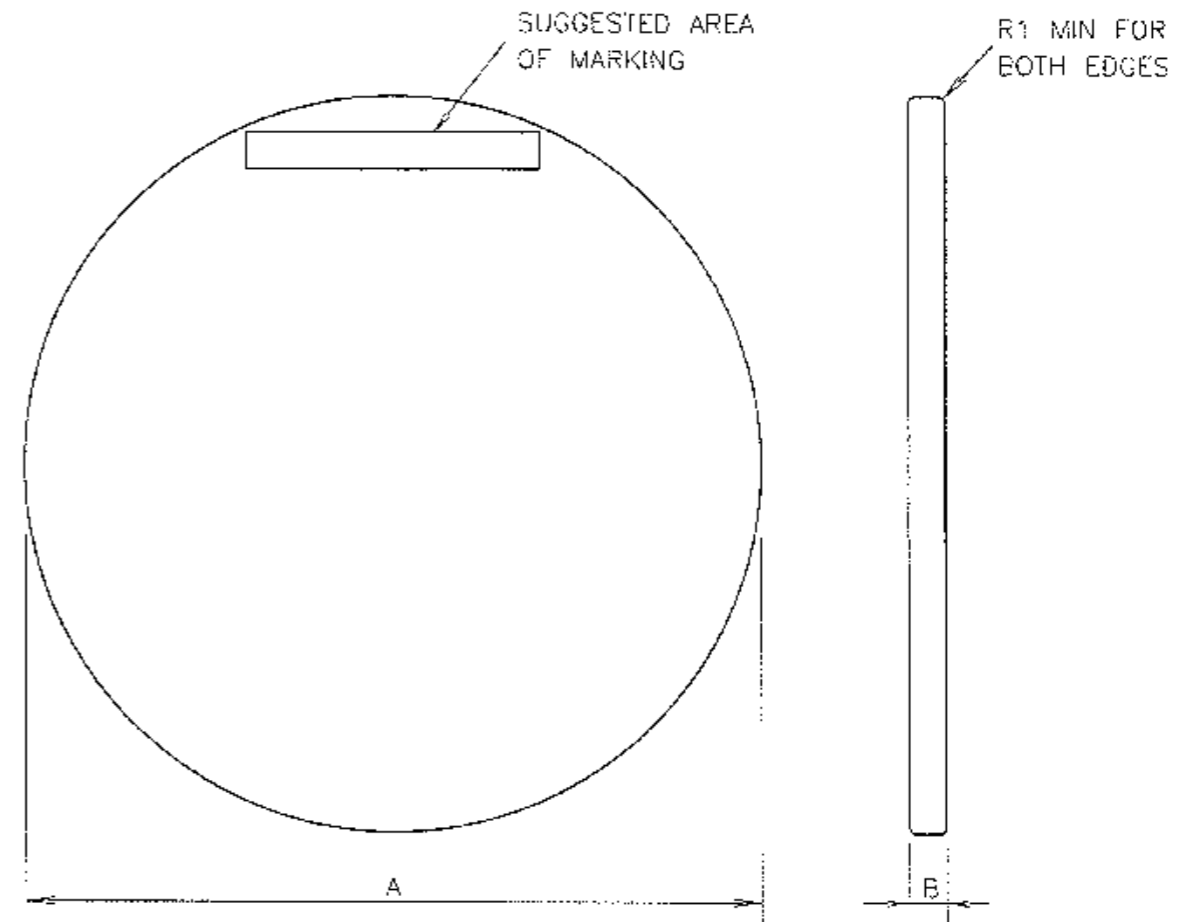
REFERENCE	PLANS
SIGNAL LENS	VM207-19
ARROW SYMBOL	VM208-27
TARGET BOARD	VM206-14 & VM206-15
RTA SUPPLY CAT NO 7002 3814	

ROADS AND TRAFFIC AUTHORITY OF NSW  
TRAFFIC SIGNALS

**OPEN VISOR TYPE A  
FOR Ø 200 SIGNAL LANTERN**

SCALE AS SHOWN	
Supersedes:	ISSUE 1
Drawn	JPG 1990-07-04
Checked	IH
Passed	BT 1990-07-04

Approved: 1990-07-05	F HULSCHER
MANAGER EQUIPMENT & STDS	
ISSUE	<input checked="" type="checkbox"/> K
VM208-31	

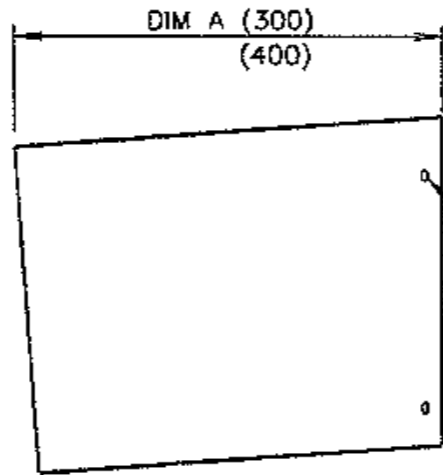
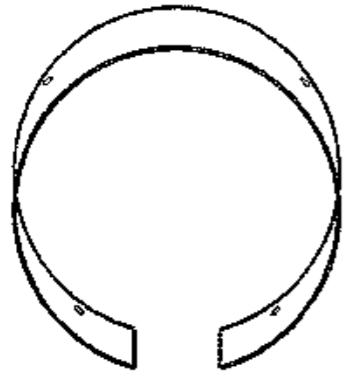


TYPE	DIMENSIONS		RTA CAT NO
	A	B	
Ø 200	211 <sup>0</sup> <sub>-2</sub>	5 <sup>0</sup> <sub>-0.5</sub>	70010410
Ø 300	300 <sup>0</sup> <sub>-2</sub>	6 <sup>0</sup> <sub>-0.5</sub>	70010348

1. MATERIAL: POLYCARBONATE.
2. COLOUR: BLACK HOMOGENEOUSLY COLOURED.
3. SURFACE FINISH: MATT.
4. MARKING: RTA CAT No AND MANUFACTURERS NAME & MONTH/YEAR OF MANUFACTURE SHALL BE LEGIBLY & DURABLY MARKED.
5. THE SUPPLY OF DISC SHALL BE IN ACCORDANCE WITH THE RELEVANT REQUIREMENTS OF SPEC R3452.

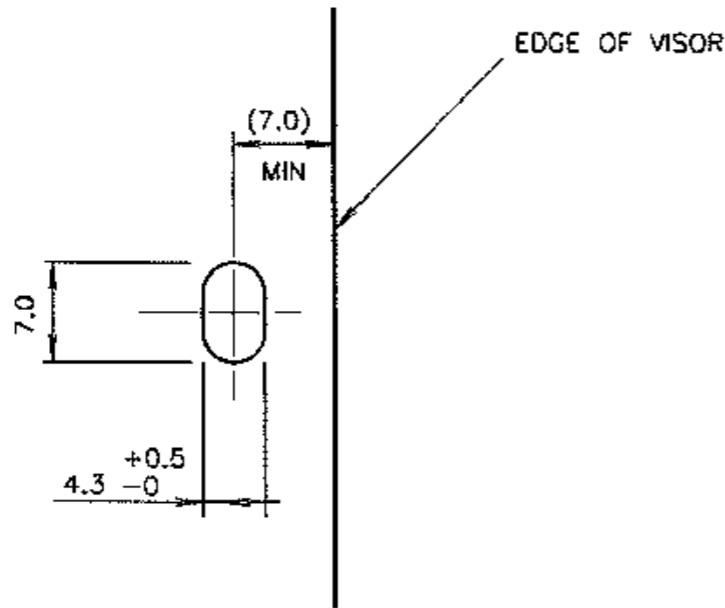
DIMENSIONS IN MILLIMETRES

G. ISSUE 09-07-03 U/I TO 2339 PLAN REDRAWN ON CAD. REF TO ALDRIDGE & CAGLE TYPE DELETED FROM TABLE. Ø200 ALDRIDGE CAT NO 70010070 DELETED FROM TABLE. CB RVC BWT H ISSUE 23-05-14 F GLASS DELETED FROM NOTE 1 NOTE 5 AMENDED. *H BWT	ROADS AND MARITIME SERVICES TRAFFIC SIGNALS		SCALE	APPROVED: 30-06-81 <b>F. HULSCHER</b> MNGR STANDARDS & QUALITY
	BLANKING OUT DISCS FOR Ø200 & Ø300 TRAFFIC SIGNAL LANTERNS		SUPERSEDES: ISSUE F	ISSUE <input checked="" type="checkbox"/> H
DRAWN R. WRIGHT				
		CHECKED RB 10-06-81		
		PASSED BWT 30-06-81	VM208-39	

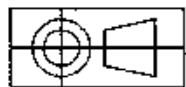


REFER DETAIL A  
4 OFF REQUIRED

NOT TO SCALE



DETAIL A  
SLOT DETAIL  
SCALE 2:1



ALL DIMENSIONS IN MILLIMETRES

## NOTES

- MATERIAL: (a) UV STABILISED POLYPROPYLENE (FLAMMABILITY CAT. V-2) WITH A MAXIMUM THICKNESS OF 2mm (SEE NOTE 3),  
OR (b) 1.2mm ALUMINIUM ALLOY (SEE NOTE 4).
- FINISH: BLACK MATT.  
THE VISOR IS TO BE DESIGNED TO HAVE A LIFE OF AT LEAST 10 YEARS EXPOSED TO WEATHER AND A POLLUTION ENVIRONMENT ASSOCIATED WITH HEAVY VEHICULAR TRAFFIC.
- SPECIAL REQUIREMENTS FOR POLYPROPYLENE VISORS:  
THE PRECISE DESCRIPTIONS AND QUANTITIES OF THE ADDITIVE MATERIALS USED IN THE POLYPROPYLENE BLEND FOR THE VISOR MUST BE DOCUMENTED.  
THE MATERIALS MUST BE PROCESSED TO MANUFACTURER'S GUIDELINES.  
THE FULL SYSTEM OF MANUFACTURE TO BE DOCUMENTED ALONG WITH QUALITY CONTROL TESTS THAT DEMONSTRATE A CONTROLLED PROCESS.  
TESTS SHALL BE CARRIED OUT AND DOCUMENTED TO DEMONSTRATE THE AGING CAPABILITY UNDER THE CONDITIONS SPECIFIED IN NOTE (2) AND THE ABSENCE OF MATERIAL STRESS IN THE FINISHED PRODUCT.  
ANY VARIATION TO THE CONSTITUENT MATERIALS OR TESTS MUST HAVE PRIOR RTA APPROVAL.  
THE LENGTH LIMIT OF UP TO & INCLUDING 300mm APPLIES TO THE POLYPROPYLENE VISORS.
- SPECIAL REQUIREMENTS FOR ALUMINIUM VISORS:  
THE VISOR MUST BE THOROUGHLY CLEANED, ETCHED, ALUMINIUM CHROMATED AND DRIED BEFORE THE APPLICATION OF A POLYESTER POWDER COATING OF 50um MINIMUM THICKNESS.  
THE FULL PROCESS OF SUCH A COATING IS SUBJECT TO RTA APPROVAL.
- TOLERANCE OF ALL VISOR DIMENSIONS UNLESS INDICATED OTHERWISE:
  - FOR DIMENSIONS UP TO AND INCLUDING 10:  $\pm 0.5$
  - FOR DIMENSIONS OVER 10:  $\pm 1$
  - ANGULAR TOLERANCE:  $\pm 1^\circ$
- MANUFACTURER'S IDENTIFICATION AND DATE OF SUPPLY SHALL BE MARKED INDELIBLY, CLEARLY AND WEATHER RESISTANT.
- REFER TO SPECIFICATION VL/11 FOR OTHER REQUIREMENTS FOR THE VISOR.
- FIVE FASTENERS SHALL BE SUPPLIED WITH EACH VISOR, AND SECURELY ATTACHED SO THAT THEY DO NOT BECOME DISLODGED DURING TRANSPORTATION OR STORAGE.

E ISSUE 30-08-1995  
JI TC2340 NOTES  
2, 3 & 5 ADDED.  
RVC BWT  
F ISSUE 20.12.07  
IN NOTE 2, FINISH WAS  
SEMI-GLOSS.  
FLAMMABILITY LEVEL 2  
ADDED TO NOTE 1a.  
MC IH BWT  
G ISSUE 28-06-2012  
LENGTH LIMIT OF UP  
TO & INCLUDING  
300mm FOR POLY-  
PROPYLENE VISORS  
ADDED TO NOTE 3.  
LC BWT.

REFERENCE PLANS

VISOR TYPE A VM208-44

RTA SUPPLY CAT NOS

DIM A = 300 : 7002 4306

DIM A = 400 : 7002 4322

ROADS AND TRAFFIC AUTHORITY OF NSW  
TRAFFIC SIGNALS

CLOSED VISOR TYPE B  
FOR Ø300 SIGNAL LANTERN

SCALE  
AS SHOWN

Supersedes: ISSUE D  
Drawn JPC 1990-07-04  
Checked IH  
Posed BWT 1990-07-04

Approved: 1990-07-05

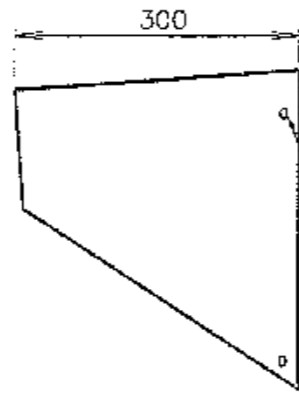
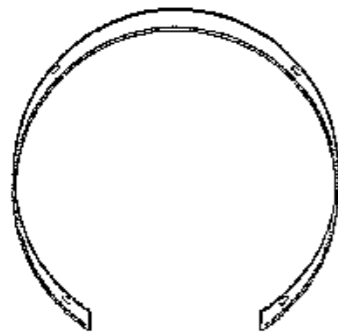
F HULSCHER

MANAGER EQUIPMENT & STOS

ISSUE  G

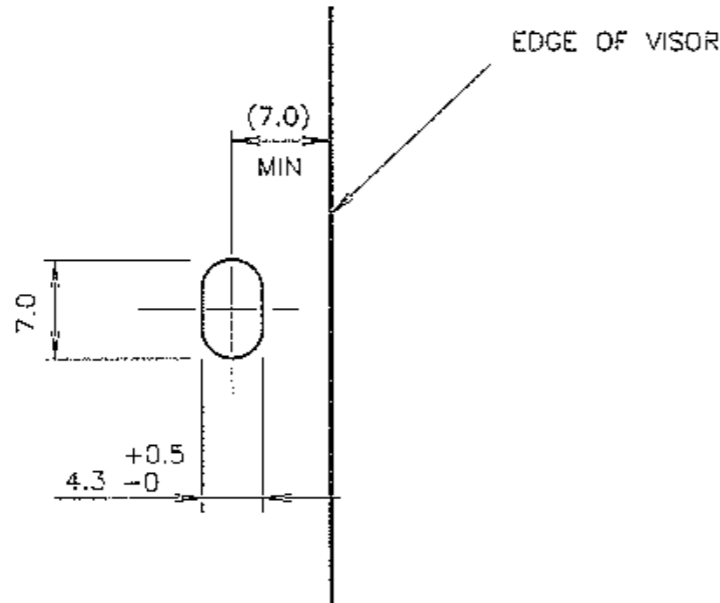
VM208-43

# NOTES

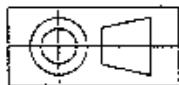


REFER DETAIL A  
4 OFF REQUIRED

NOT TO SCALE



DETAIL A  
SLOT DETAIL  
SCALE 2:1

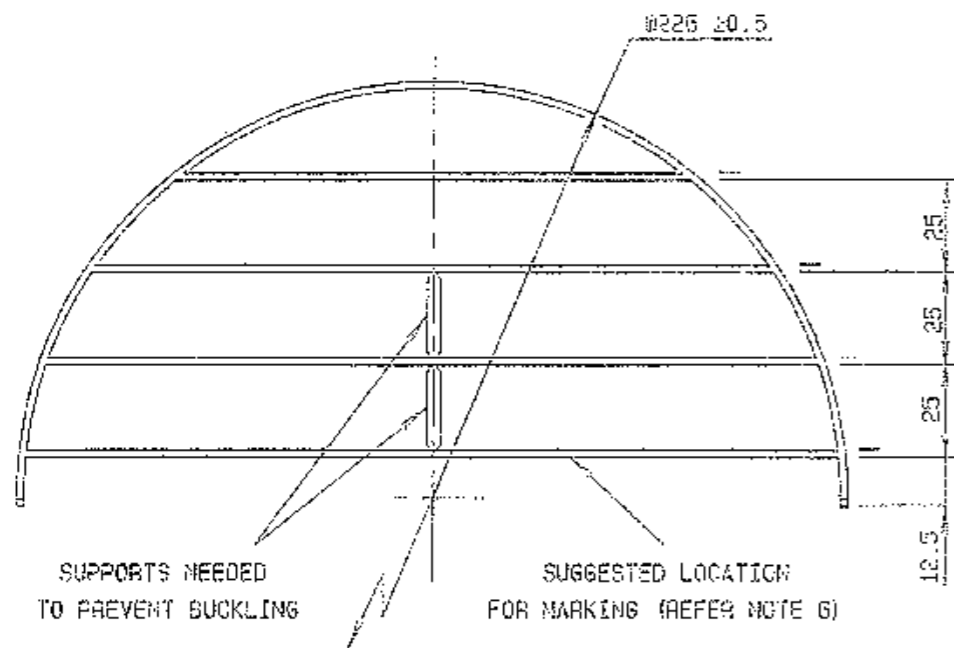


ALL DIMENSIONS IN MILLIMETRES

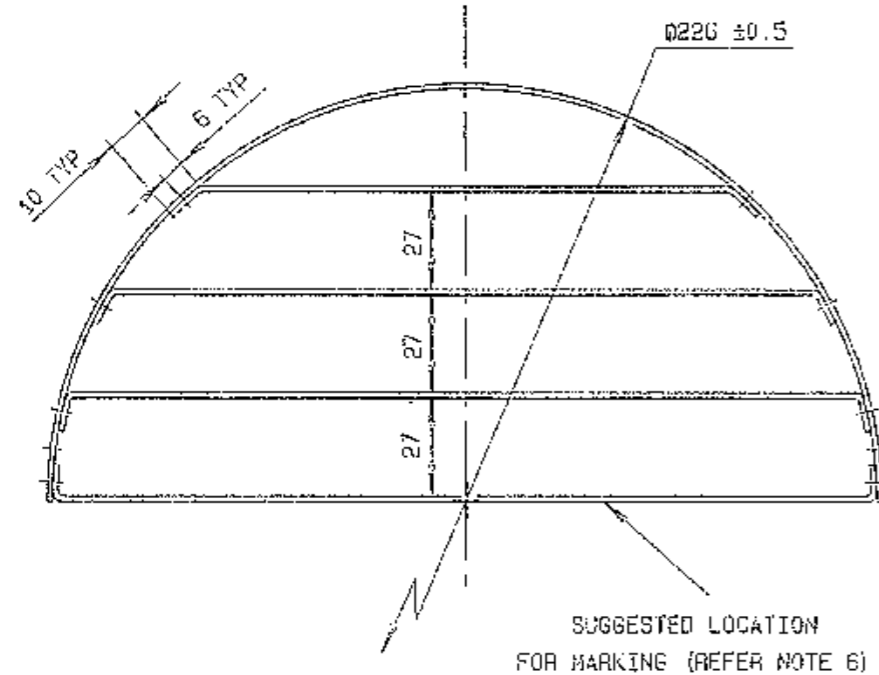
1. MATERIAL: (a) UV STABILISED POLYPROPYLENE (FLAMMABILITY CAT. V-2) WITH A MAXIMUM THICKNESS OF 2mm (SEE NOTE 3).  
OR (b) 1.2mm ALUMINIUM ALLOY (SEE NOTE 4).
2. FINISH: BLACK MATT.  
THE VISOR IS TO BE DESIGNED TO HAVE A LIFE OF AT LEAST 10 YEARS EXPOSED TO WEATHER AND A POLLUTION ENVIRONMENT ASSOCIATED WITH HEAVY VEHICULAR TRAFFIC.
3. SPECIAL REQUIREMENTS FOR POLYPROPYLENE VISORS:  
THE PRECISE DESCRIPTIONS AND QUANTITIES OF THE ADDITIVE MATERIALS USED IN THE POLYPROPYLENE BLEND FOR THE VISOR MUST BE DOCUMENTED.  
THE MATERIALS MUST BE PROCESSED TO MANUFACTURER'S GUIDELINES.  
THE FULL SYSTEM OF MANUFACTURE TO BE DOCUMENTED ALONG WITH QUALITY CONTROL TESTS THAT DEMONSTRATE A CONTROLLED PROCESS.  
TESTS SHALL BE CARRIED OUT AND DOCUMENTED TO DEMONSTRATE THE AGING CAPABILITY UNDER THE CONDITIONS SPECIFIED IN NOTE (2) AND THE ABSENCE OF MATERIAL STRESS IN THE FINISHED PRODUCT.  
ANY VARIATION TO THE CONSTITUENT MATERIALS OR TESTS MUST HAVE PRIOR RTA APPROVAL.
4. SPECIAL REQUIREMENTS FOR ALUMINIUM VISORS:  
THE VISOR MUST BE THOROUGHLY CLEANED, ETCHED, ALUMINIUM CHROMATED AND DRIED BEFORE THE APPLICATION OF A POLYESTER POWDER COATING OF 50um MINIMUM THICKNESS.  
THE FULL PROCESS OF SUCH A COATING IS SUBJECT TO RTA APPROVAL.
5. TOLERANCE OF ALL VISOR DIMENSIONS UNLESS INDICATED OTHERWISE:
  - FOR DIMENSIONS UP TO AND INCLUDING 10:  $\pm 0.5$
  - FOR DIMENSIONS OVER 10:  $\pm 1$
  - ANGULAR TOLERANCE:  $\pm 1^\circ$
6. MANUFACTURER'S IDENTIFICATION AND DATE OF SUPPLY SHALL BE MARKED INDELIBLY, CLEARLY AND WEATHER RESISTANT.
7. REFER TO SPECIFICATION VL/11 FOR OTHER REQUIREMENTS FOR THE VISOR.
8. FIVE FASTENERS SHALL BE SUPPLIED WITH EACH VISOR, AND SECURELY ATTACHED SO THAT THEY DO NOT BECOME DISLODGED DURING TRANSPORTATION OR STORAGE.

D ISSUE 04-07-90 JI TC1028 PLAN REDRAWN JPC E ISSUE 30-08-96 JI TC2340 NOTES 2, 3 & 5 ADDED. IRVC F ISSUE 20.12.07 IN NOTE 2, FINISH WAS SEMI-GLOSS. FLAMMABILITY LEVEL 2 ADDED TO NOTE 1a. MC III SWT	REFERENCE PLANS VISOR TYPE B VM208-43	ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS	SCALE AS SHOWN	Approved: 1990-07-05 F HULSCHER MANAGER EQUIPMENT & STDS
	RTA SUPPLY CAT NO 7002 4330	OPEN VISOR TYPE A FOR Ø300 SIGNAL LANTERN	Supersedes: ISSUE D	Crown JPG 1990-07-04 Checked IHT Passed BT 1990-07-04
			ISSUE <input checked="" type="checkbox"/> F <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

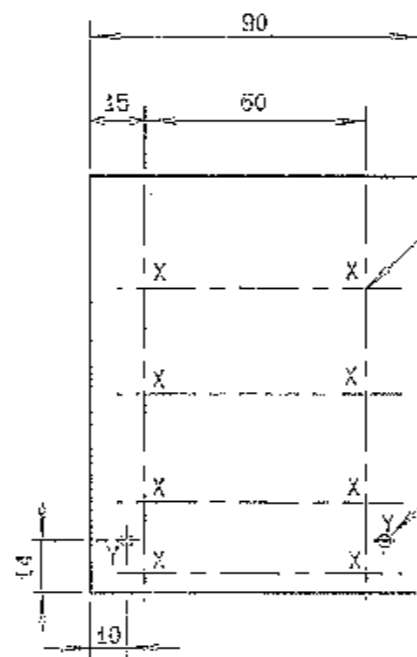
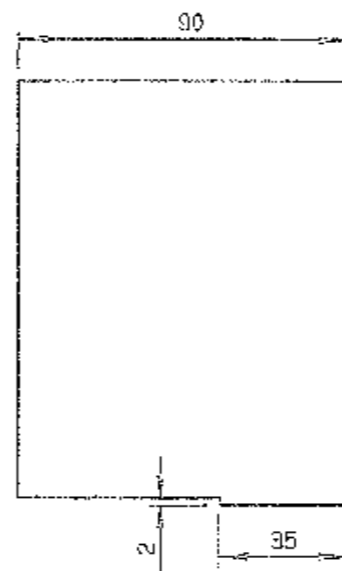
VM208-44



PLASTIC LOUVRE



ALUMINIUM LOUVRE

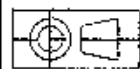


DRILL 18 HOLES 'X'  
Ø2.45 TO ACCOMMODATE  
Ø2.4 POP RIVETS  
(AL ALLOY DOME HD)  
FOR FIXING LOUVRES  
IN POSITION (RIVET  
HEADS ON OUTSIDE)

2 HOLES 'Y' Ø3.5  
(1 HOLE THIS  
SIDE & OTHER  
DIAGONALLY  
OPPOSITE)

NOTES

- MATERIAL: (a) UV STABILISED ACRYLONITRILE STYRENE ACRYLATE POLYMER (ASA) WITH A MAXIMUM THICKNESS OF 2mm (SEE NOTE 3).  
OR (b) 1mm ALUMINIUM ALLOY SHEET (SEE NOTE 4).
- FINISH: BLACK SEMI-GLOSS.  
THE LOUVRE IS TO BE DESIGNED TO HAVE A LIFE OF AT LEAST 10 YEARS EXPOSED TO WEATHER AND A POLLUTION ENVIRONMENT ASSOCIATED WITH HEAVY VEHICULAR TRAFFIC.
- SPECIAL REQUIREMENTS FOR PLASTIC (ASA) LOUVRES:  
THE PRECISE DESCRIPTIONS AND QUANTITIES OF THE ADDITIVE MATERIALS USED IN THE POLYMER BLEND FOR THE LOUVRE MUST BE DOCUMENTED.  
THE MATERIALS MUST BE PROCESSED TO MANUFACTURER'S GUIDELINES.  
THE FULL SYSTEM OF MANUFACTURE TO BE DOCUMENTED ALONG WITH QUALITY CONTROL TESTS THAT DEMONSTRATE A CONTROLLED PROCESS.  
TESTS SHALL BE CARRIED OUT AND DOCUMENTED TO DEMONSTRATE THE AGING CAPABILITY UNDER THE CONDITIONS SPECIFIED IN NOTE (2) AND THE ABSENCE OF MATERIAL STRESS IN THE FINISHED PRODUCT.  
ANY VARIATION TO THE CONSTITUENT MATERIALS OR TESTS MUST HAVE PRIOR RTA APPROVAL.  
A TOUGH PLASTIC BAG CONTAINING 5 X BLACKENED CLIPS (CMI PRESSED COMPONENTS PTY LTD PART NO 08810/17/404 (DACROMET COATING) IS TO BE ATTACHED INSIDE THE LOUVRE WITH MASKING TAPE.  
AN EQUIVALENT CLIP APPROVED BY THE RTA WOULD BE ACCEPTABLE.
- SPECIAL REQUIREMENTS FOR ALUMINIUM LOUVRES:  
THE LOUVRE MUST BE THOROUGHLY CLEANED, ETCHED, ALUMINIUM CHROMATED AND DRIED BEFORE THE APPLICATION OF A POLYESTER POWDER COATING OF 50µm MINIMUM THICKNESS.  
THE FULL PROCESS OF SUCH A COATING IS SUBJECT TO RTA APPROVAL.
- TOLERANCE OF ALL LOUVRE DIMENSIONS UNLESS INDICATED OTHERWISE:  
- GENERAL DIMENSIONS: ±1  
- ANGULAR: ±1°
- MANUFACTURER'S IDENTIFICATION AND DATE OF SUPPLY SHALL BE MARKED INDELIBLY, CLEARLY AND WEATHER RESISTANT.
- REFER TO SPECIFICATION VL/11 FOR OTHER REQUIREMENTS FOR THE LOUVRE.



ALL DIMENSIONS IN MILLIMETRES

13-08-95  
J/ITC 2340  
REDRAWN  
WAS ALUMINIUM ONLY.  
NOTES 2, 3 & 5 ADDED  
RVC

REFERENCE DRAWINGS	
CLOSED VISOR Ø200	VM208-29
LOUVRE ATTACHMENT	VM208-47

RTA CATALOGUE NO  
70015552

ROADS AND TRAFFIC AUTHORITY OF NSW  
TRAFFIC SIGNALS

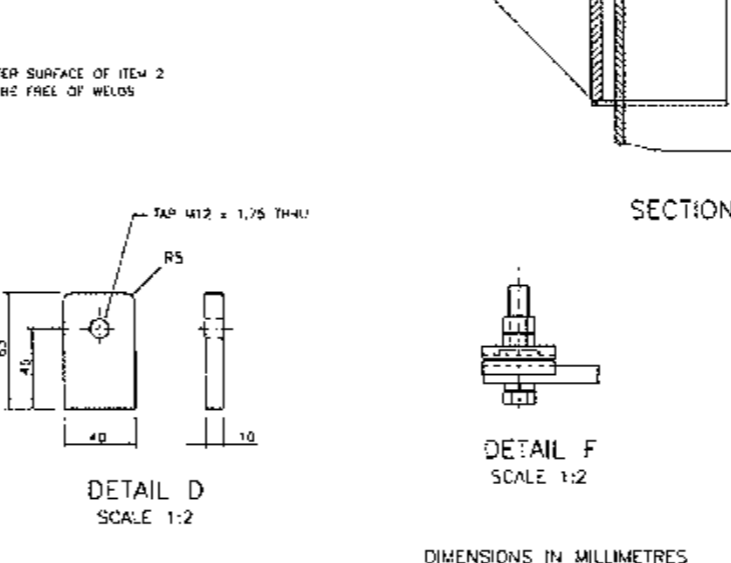
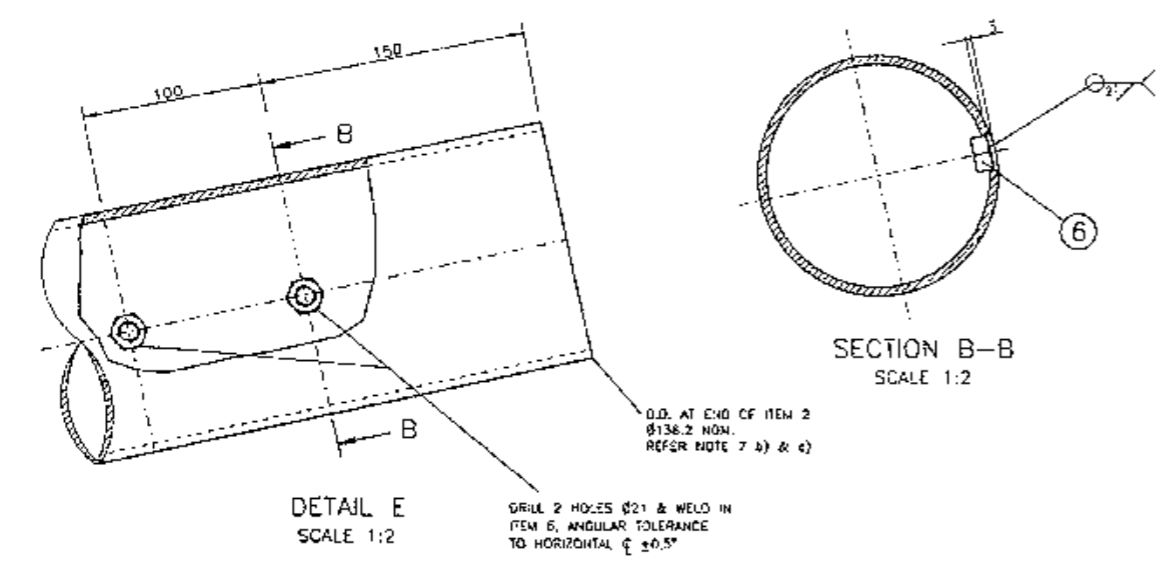
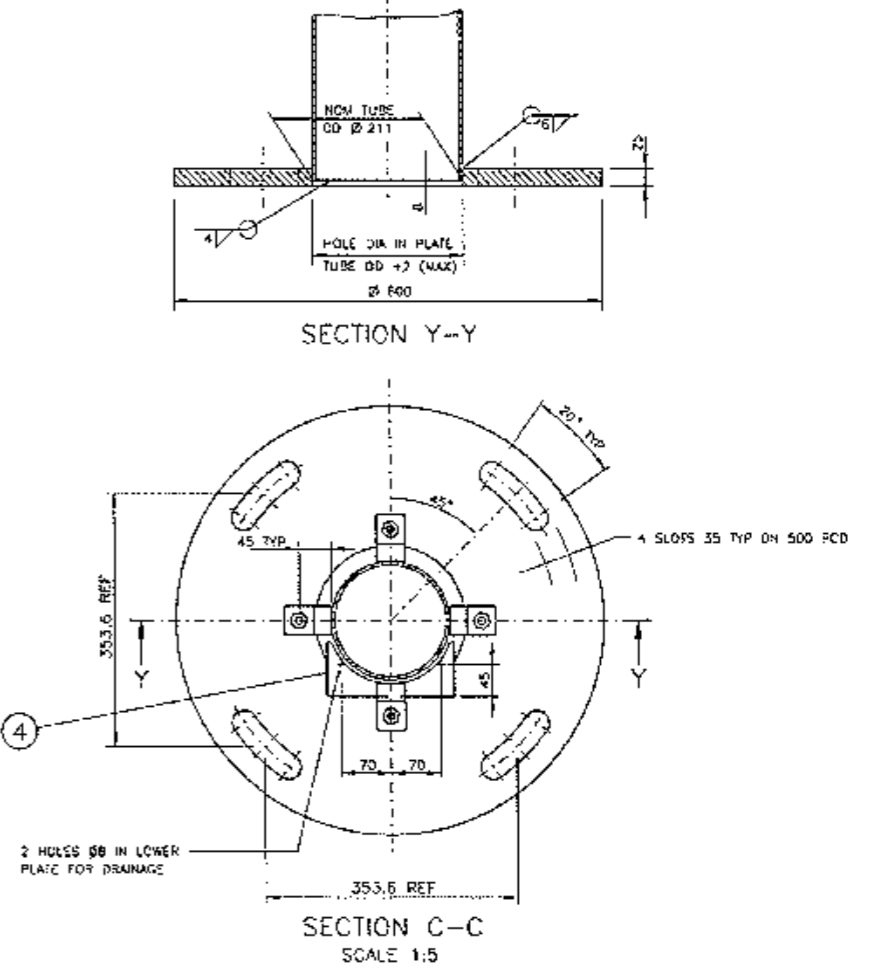
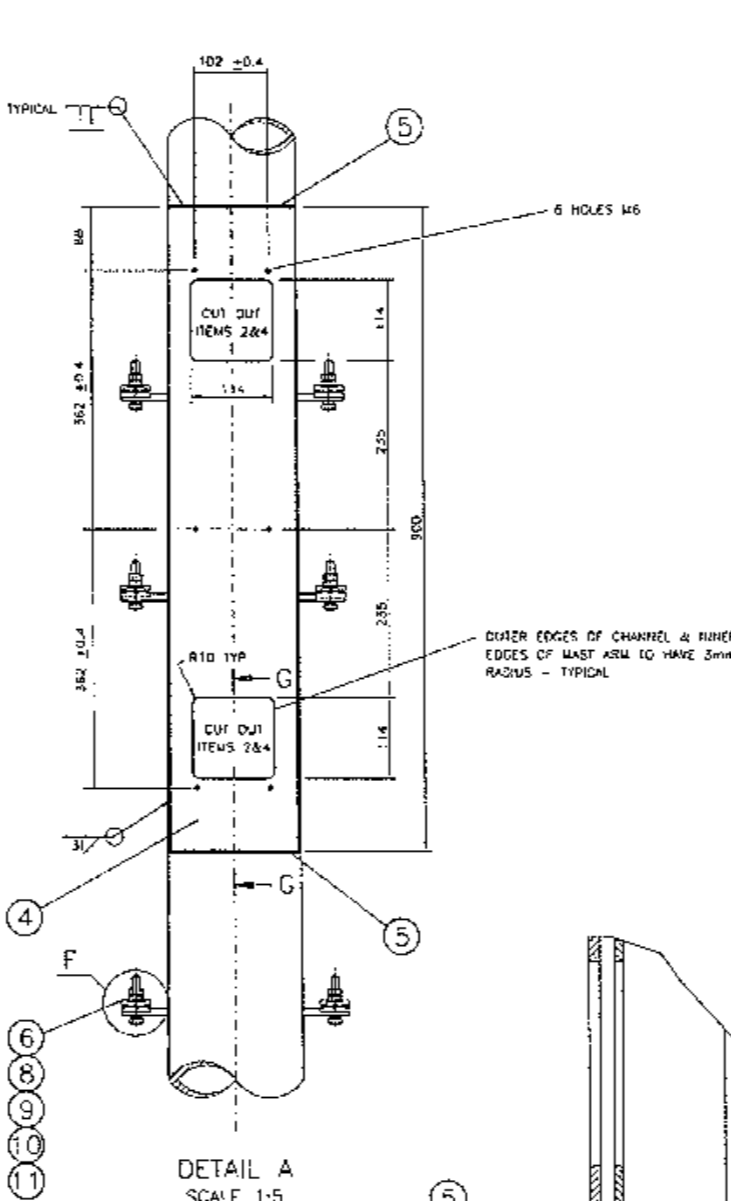
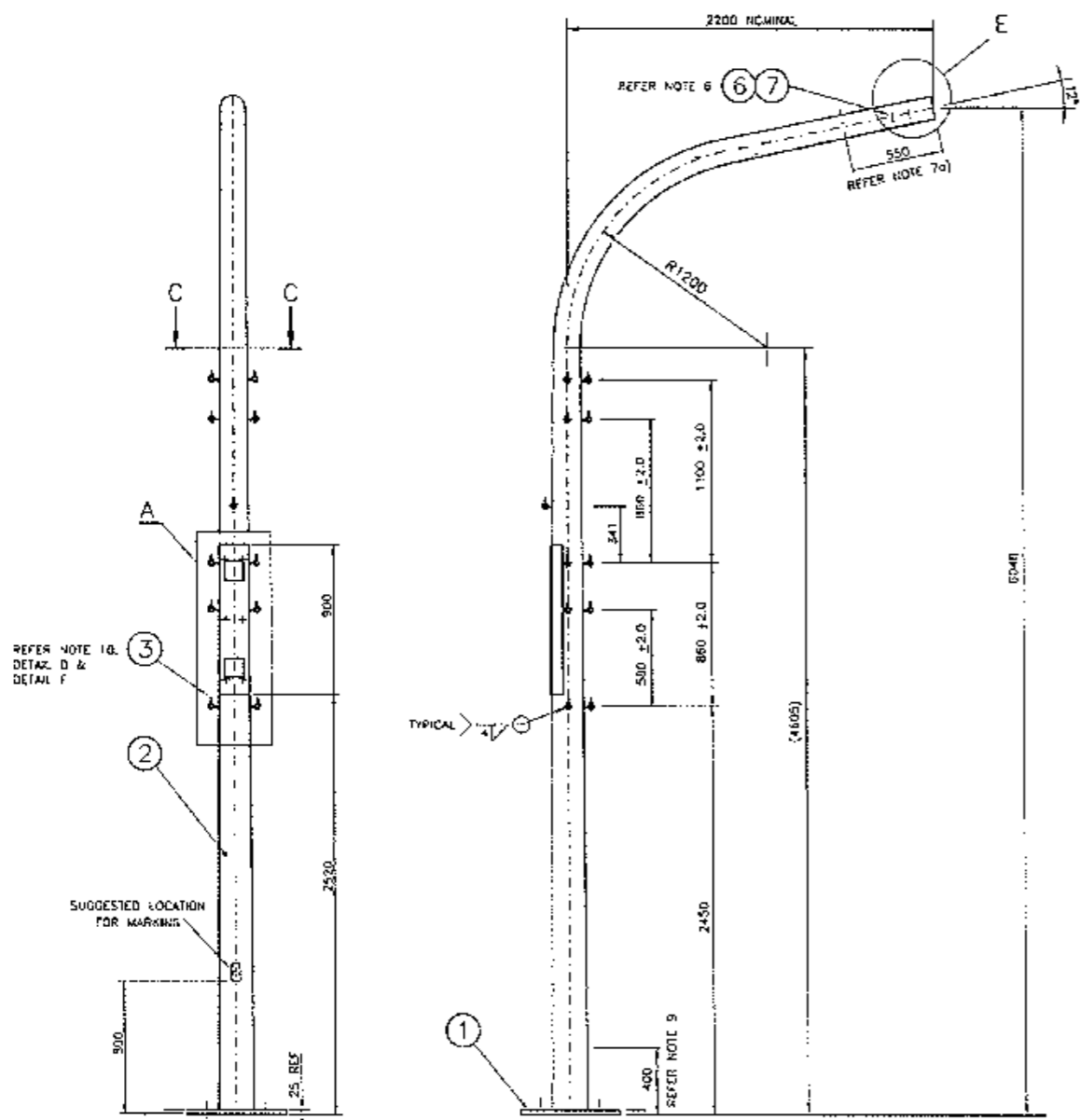
LOUVRE FOR Ø200 SIGNAL LANTERN

SCALE  
1 : 2

SUPERSEDES: ISSUE B	
DRAWN	DH 09-09-85
CHECKED	RB 14-10-85
PASSED	B TAYLOR 25-11-85

APPROVED: 29-11-1985  
F HÜLSCHER  
MANAGER EQUIPMENT & STDS

ISSUE	C				
VM208-45					



- NOTES**
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH SPECIFICATION M/1
  - ALL WELDS TO BE IN ACCORDANCE WITH AS 1554 PART 1.
  - REMOVE ALL BURRS, SHARP EDGES AND WELDING SCALE.
  - FINISH: HD GALVANISED, TO BE IN ACCORDANCE WITH AS/NZS 4680.
  - ALL THREADS TO BE CLEARED AFTER GALVANISING.
  - ITEM 7 TO BE SCREWED AND TIGHTENED IN ITEM 6 BEFORE DELIVERY.
  - a) OUTER SURFACE OF ITEM 2 TO BE FREE OF EXCESS GALVANISING AND SEAMWELD TO BE GROUND FLUSH WITHIN 250mm FROM END, TO ENSURE A SMOOTH SURFACE AND TO STAY WITHIN THE LIMITS OF THE STATED TOLERANCE.  
b) ROUNDNESS TOLERANCE (QUALITY) AT END OF ITEM 2 TO BE WITHIN MAJOR Ø137.2 & MINOR Ø135.2.  
c) CIRCUMFERENCE (OUTSIDE) AT END OF ITEM 2 TO BE 428 ±1.0.
  - ITEMS 6, 8, 9, 10 & 11 TO BE SUPPLIED FITTED TO EACH LUG AS SHOWN BEFORE DELIVERY.
  - LOWER 100mm OF POLE TO BE TREATED AS FOLLOWS:  
PAINT INSIDE & OUTSIDE WITH EPOXY-PRIMER NO 2 OR CALVAPREP;  
WASH WITH WATER AND APPLY ONE COAT OF DULUX AMERLOCK 400 BLACK OR GREY, OR AN APPROVED EQUIVALENT BEFORE DELIVERY.
  - MOUNTING SURFACE OF LUG AND MAST ARM SURFACE TO BE 90° ±0.5°. THREADED HOLE IN MOUNTING LUG TO BE 90° ±0.5° IN RELATION TO MOUNTING SURFACE.
  - A PAIR OF LOCK WASHERS (ITEM 11) SHALL BE FITTED TO EACH LUG ASSEMBLY (DIPPLE TO DIPPLE).

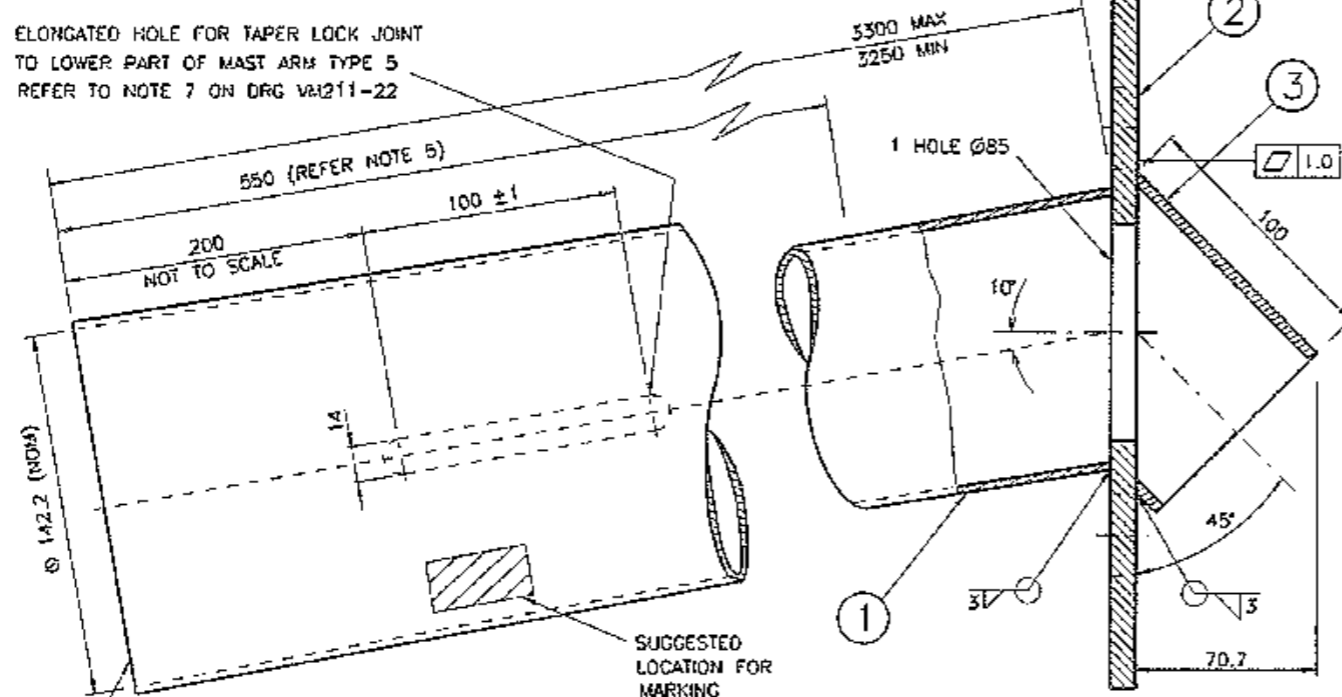
C. ISSUE: 1989-04-22  
 1. LUGS ADDED TO COLUMN CHANNELS OF ITEMS 6, 8, 9, 10 & 11 CHANGED TO SUIT PLAN REDRAWN. SECTION C-C ADDED. BMT  
 H. ISSUE: 1989-11-02  
 J/A 102987 ITEM 2 WAS 4.8mm MIN THICK BMT  
 R/C  
 I. ISSUE: 2006-01-09 DIM FROM BASE PLATE TO LOWER IRC LUGS WAS 2300mm BMT  
 II  
 J. ISSUE: 11-04-15 REFERENCE FOR UPPER LAMBERN SUPPORT WAS VM211-25. BMT. LC  
 N. ISSUE: 27-02-14 EXTRA LUG ADDED TO MAST. DTY OF ITEMS 3, 6, 8, 9, 10 & 11 REPEATED. BMT. LL

SUPPLY CATALOGUE NO. 1823 3622

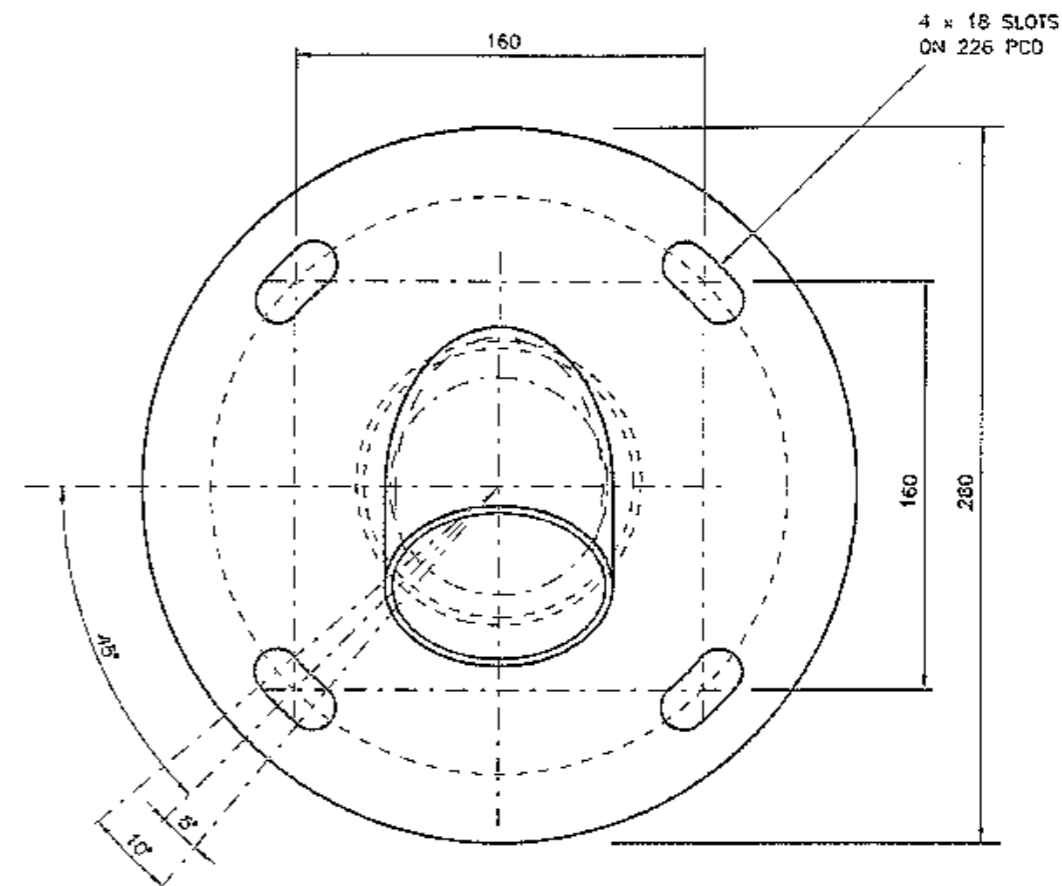
REFERENCE DRAWINGS  
 UPPER MAST ARM TYPE 5: VM211-22  
 UPPER MAST ARM TYPE 36: VM211-24  
 UPPER LAMBERN SUPPORT: VM215-E  
 MECH. ASSY OF M.A.: VM111-25  
 LOCK WASHER: VM100-24  
 APPROVED: FR HULSCHER  
 DATE: 1989-12-28

ITEM	DESCRIPTION	MATERIAL	FINISH	QTY
11	LOCK WASHER - REFER TO PLAN VM200-24	STAINLESS STEEL	NATURAL	32
10	SPRING WASHER FOR M3 AS 1968	SPRING STEEL	GALV TO AS1214	16
9	FLAT WASHER FOR M12 TO AS 1237	MILD STEEL	GALV TO AS/NZS4680	16
8	HEXAGON HEAD SET SCREW M12 x 60 TO AS 1111	MILD STEEL	GALV TO AS1214	16
7	HEXAGON HEAD SET SCREW M12 x 30 TO AS 1111	MILD STEEL	GALV TO AS1214	1
5	HEXAGON NUT M12 AS 1112	MILD STEEL	GALV TO AS1214	34
5	PLATE 3mm THICK - REFER DETAIL 'A'	MS PLATE	HOT DIP	2
4	MOUNTING CHANNEL 128x75x6 MS CH - REFER DETAIL 'A'	MILD STEEL	GALVANISED	1
3	MOUNTING LUG - REFER DETAIL 'D' TO AS 1442/AS 3573	MS PLATE	REFER	16
2	TUBE 5.0mm MIN WALL THICKNESS PAPER 1:100 ON DIAMETER	HR 340 TO AS1594	NOTES 2	1
1	BASE PLATE - REFER SECTION C-C & SECTION Y-Y	MS PLATE	TO 5	1

ELONGATED HOLE FOR TAPER LOCK JOINT  
TO LOWER PART OF MAST ARM TYPE 5  
REFER TO NOTE 7 ON DRG VM211-22



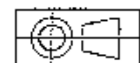
ROUNDNESS  
TOLERANCE  
MAJOR  $\varnothing 143.2$   
MINOR  $\varnothing 141.2$   
(REF NOTE 2)



### NOTES

- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH SPEC MA/1.
- THE INSIDE CIRCUMFERENCE AT OPEN END OF TAPERED TUBE TO BE  $447 \pm 1$ .
- ALL WELDING TO BE IN ACCORDANCE WITH AS/NZS 1554 PART 1.
- DEBURR, REMOVE ALL SHARP EDGES & WELDING SCALE.
- A SMOOTH SURFACE & AN EVEN GALVANISING THICKNESS (63um) IN ACCORDANCE WITH AS/NZS 4680 IS REQUIRED TO ENSURE EASE OF ASSEMBLY OF THE OUTREACH. INNER SURFACE OF TUBE (ITEM 1) TO BE FREE OF EXCESS GALVANISING AND SEAMWELD TO BE GROUND FLUSH WITHIN 550mm FROM OPEN END.
- ALL THREADS TO BE CLEARED AFTER GALVANISING.
- TOLERANCE OF DIMENSIONS UNLESS OTHERWISE SHOWN: ANGULAR  $\pm 1^\circ$ 
  - LOCATION OF HOLE CENTRES  $\pm 0.5$
  - FOR DIMENSIONS UP TO AND INCLUDING  $160 \pm 0.5$
  - FOR DIMENSIONS OVER  $160 \pm 2$

ITEM	DESCRIPTION	MATERIAL	FINISH	QTY
3	FLANGE HOOD CHS 88.9 x 4 TO AS1163	MILD STEEL	HD GALV	1
2	MOUNTING PLATE 10mm THICK TO AS/NZS 3678 OR AS/NZS 3679	MILD STEEL	SEE NOTES 5 & 6	1
1	TUBE TAPERED 1:100 ON DIA, 3.0 MIN WALL THICKNESS	HR340 TO AS/NZS 1594		1



DIMENSIONS ARE IN MILLIMETRES

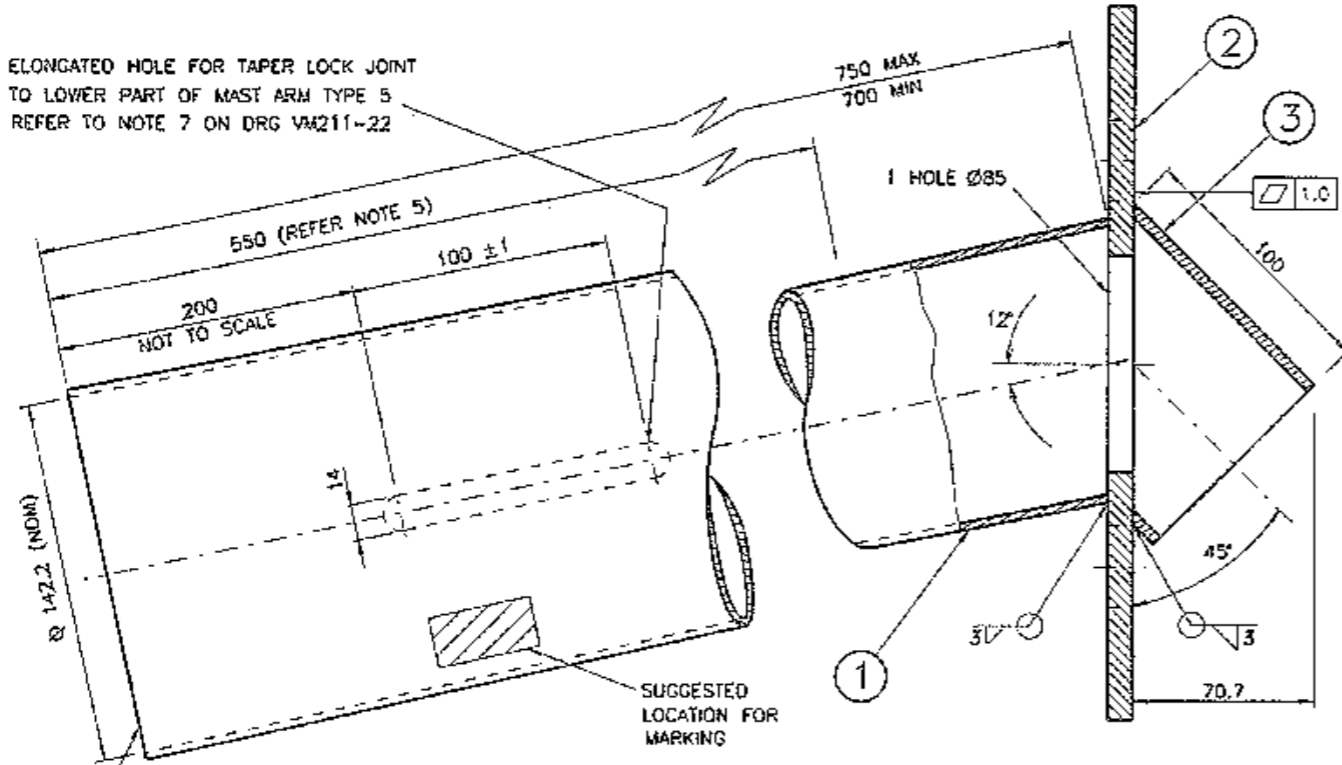
C ISSUE 07-02-00  
J/1 IC2341  
PLAN REDRAWN.  
NOTE 8 ADDED.  
STDS UPDATED.  
IH BWT  
D ISSUE 07-04-06  
ELBOW REPLACED BY  
FLANGEHOOD.  
Ø85 HOLE WAS TAPPED  
HOLE FOR 2.5 INCH  
BSP.  
SHEET SIZE WAS A3.  
MIG PLATE WAS 200 SQ  
WITH 4 x Ø18 HOLES.  
IH BWT

REFERENCE DRAWINGS		DRAWN IS 29-7-87
MECH ASSEMBLY	VM211-26	CHECKED RVC 26-9-89
LOWER PART MA	VM211-22	PASSED B TAYLOR 08-12-1989
APPROVED		FR HULSCHER MANAGER, EQUIPMENT & STDS DATE 08-12-1989
SUPPLY CAT NO 1823563D		

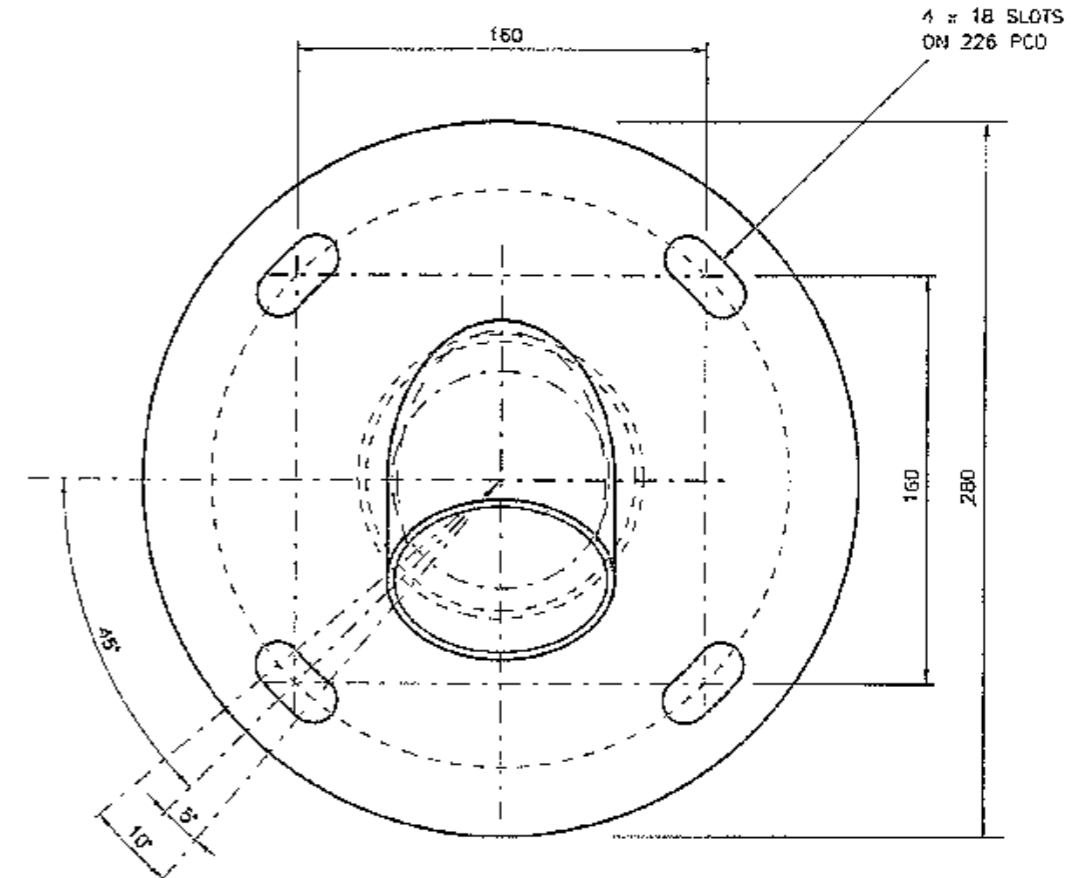
ROADS AND TRAFFIC AUTHORITY OF NSW  
TRAFFIC SIGNALS  
  
MECHANICAL DETAIL OF OUTREACH  
FOR MAST ARM TYPE 5L

SHEET SIZE	FILE NO	SCALE	SHEET NO
A2		1:2 (OR AS SHOWN)	
SUPERSEDES ISSUE C		ISSUE D	
REG NO		VM211-23	

ELONGATED HOLE FOR TAPER LOCK JOINT  
TO LOWER PART OF MAST ARM TYPE 5  
REFER TO NOTE 7 ON DRG VM211-22



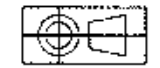
ROUNDNESS  
TOLERANCE  
MAJOR  $\varnothing 143.2$   
MINOR  $\varnothing 141.2$   
(REF NOTE 2)



NOTES

1. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH SPEC MA/1.
2. THE INSIDE CIRCUMFERENCE AT OPEN END OF TAPERED TUBE TO BE  $447 \pm 1$ .
3. ALL WELDING TO BE IN ACCORDANCE WITH AS/NZS 1554 PART 1.
4. DEBURR, REMOVE ALL SHARP EDGES & WELDING SCALE.
5. A SMOOTH SURFACE & AN EVEN GALVANISING THICKNESS (63um) IN ACCORDANCE WITH AS/NZS 4680 IS REQUIRED TO ENSURE EASE OF ASSEMBLY OF THE OUTREACH. INNER SURFACE OF TUBE (ITEM 1) TO BE FREE OF EXCESS GALVANISING AND SEAMWELD TO BE GROUND FLUSH WITHIN 550mm FROM OPEN END.
6. ALL THREADS TO BE CLEARED AFTER GALVANISING.
7. TOLERANCE OF DIMENSIONS UNLESS OTHERWISE SHOWN: ANGULAR  $\pm 1^\circ$ 
  - LOCATION OF HOLE CENTRES  $\pm 0.5$
  - FOR DIMENSIONS UP TO AND INCLUDING  $160 \pm 0.5$
  - FOR DIMENSIONS OVER  $160 \pm 2$

ITEM	DESCRIPTION	MATERIAL	FINISH	QTY
3	FLANGE HOOD CHS 88.9 x 4 TO AS1163	MILD STEEL		1
2	MOUNTING PLATE 10mm THICK TO AS/NZS 3678 OR AS/NZS 3679	MILD STEEL	HD GALV	1
1	TUBE TAPERED 1:100 ON DIA, 3.0 MIN WALL THICKNESS	HR340 TO AS/NZS 1594	SEE NOTES 5 & 6	1

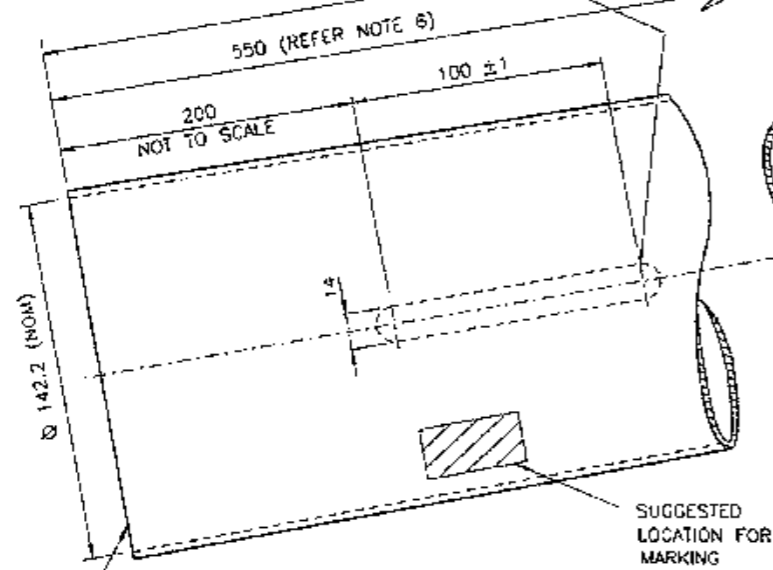


DIMENSIONS ARE IN MILLIMETRES

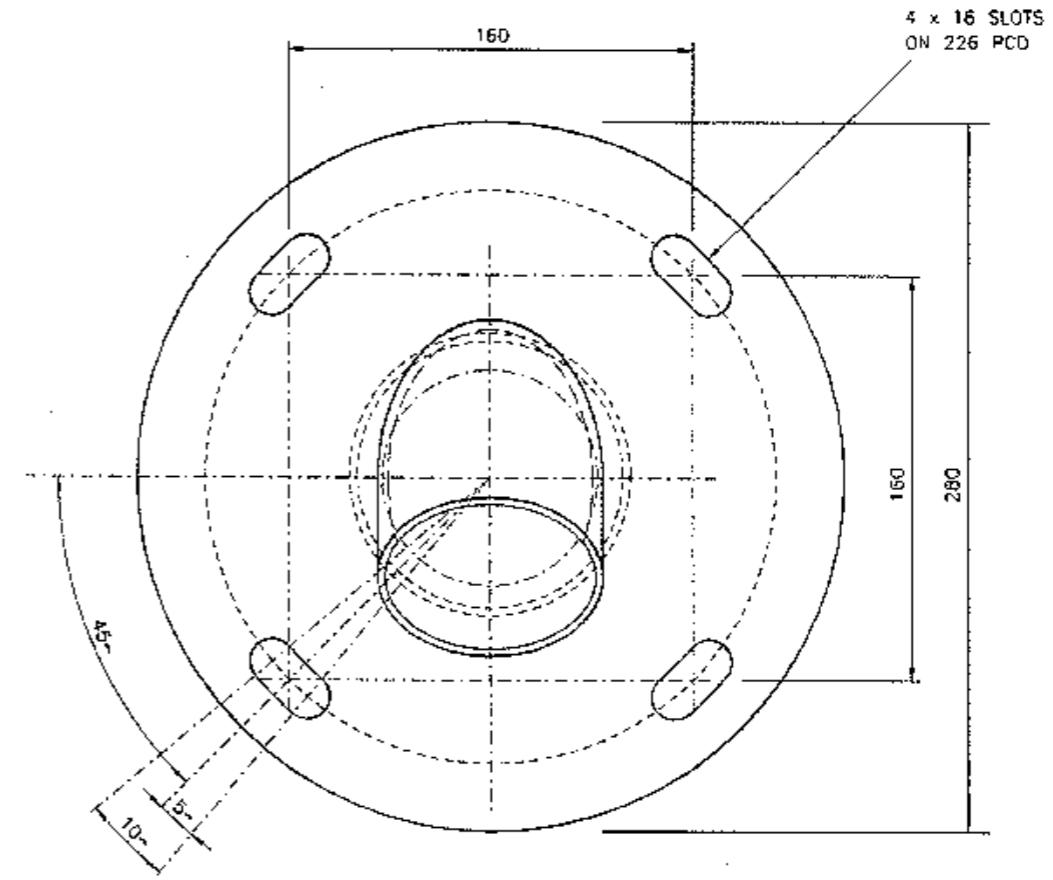
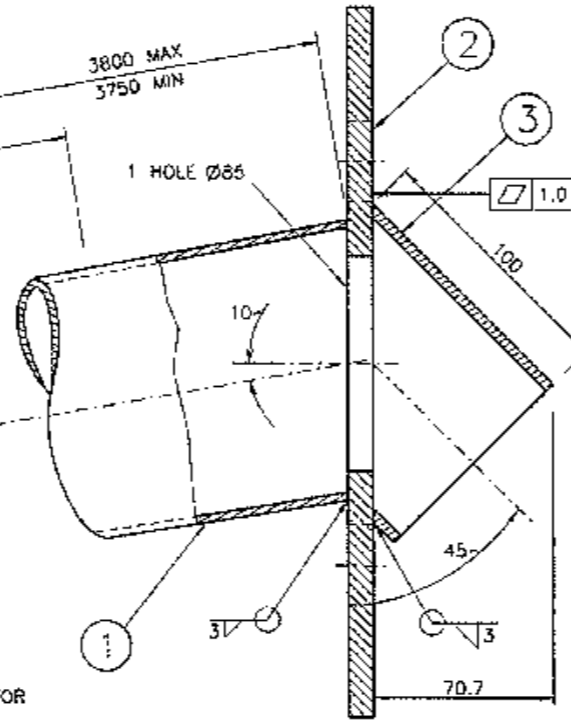
C ISSUE 08-02-00 J/1 TC2342 PLAN REDRAWN, NOTE 8 ADDED, STDS UPDATED. IH BWT D ISSUE 07-04-06 ELBOW REPLACED BY FLANGEHOOD. 885 HOLE WAS TAPPED HOLE FOR 2.5 INCH BSP. SHEET SIZE WAS A3. MTC PLATE WAS 200 SQ WITH 4 x 18 HOLES. EWI IH	REFERENCE DRAWINGS MECH ASSEMBLY VM211-26 LOWER PART MA VM211-27	DRAWN IS 27-7-87 CHECKED RVC 26-9-89 PASSED B TAYLOR 08-12-1989 APPROVED FR HULSCHER MANAGER, EQUIPMENT & STDS DATE 08-12-1989	SUPPLY CAT NO 18233649	ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS MECHANICAL DETAIL OF OUTREACH FOR MAST ARM TYPE 5S	SHEET SIZE A2	FILE NO	SCALE 1:2 (OR AS SHOWN)	SHEET NO
					SUPERSEDES ISSUE C	ISSUE D	REG NO VM211-24	



ELONGATED HOLE FOR TAPER LOCK JOINT  
TO LOWER PART OF MAST ARM TYPE 5  
REFER TO NOTE 7 ON DRG VM211-22

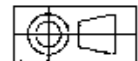


ROUNDNESS  
TOLERANCE  
MAJOR  $\varnothing$  143.2  
MINOR  $\varnothing$  141.2  
(REF NOTE 3)



NOTES

1. THIS MAST ARM TYPE 5XL SHALL ONLY BE USED IN REGION 'A' TERRAIN CATEGORY 2 AREAS (TO AS 1170.2). IT DOES NOT HAVE ADEQUATE STRUCTURAL STRENGTH FOR USE IN OTHER REGIONS. (SEE AS 1170.2 FOR THE BOUNDARIES OF THE DIFFERENT REGIONS)
2. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH SPEC MA/1.
3. THE INSIDE CIRCUMFERENCE AT OPEN END OF TAPERED TUBE TO BE  $447 \pm 1$ .
4. ALL WELDING TO BE IN ACCORDANCE WITH AS/NZS 1554 PART 1.
5. DEBURR, REMOVE ALL SHARP EDGES & WELDING SCALE.
6. A SMOOTH SURFACE & AN EVEN GALVANISING THICKNESS ( $63\mu\text{m}$ ) IN ACCORDANCE WITH AS/NZS 4680 IS REQUIRED TO ENSURE EASE OF ASSEMBLY OF THE OUTREACH. INNER SURFACE OF TUBE (ITEM 1) TO BE FREE OF EXCESS GALVANISING AND SEAMWELD TO BE GROUND FLUSH WITHIN 550mm FROM OPEN END.
7. ALL THREADS TO BE CLEARED AFTER GALVANISING.
8. TOLERANCE OF DIMENSIONS UNLESS OTHERWISE SHOWN: ANGULAR  $\pm 1^\circ$   
 - LOCATION OF HOLE CENTRES  $\pm 0.5$   
 - FOR DIMENSIONS UP TO AND INCLUDING  $160 \pm 0.5$   
 - FOR DIMENSIONS OVER  $160 \pm 2$



DIMENSIONS ARE IN MILLIMETRES

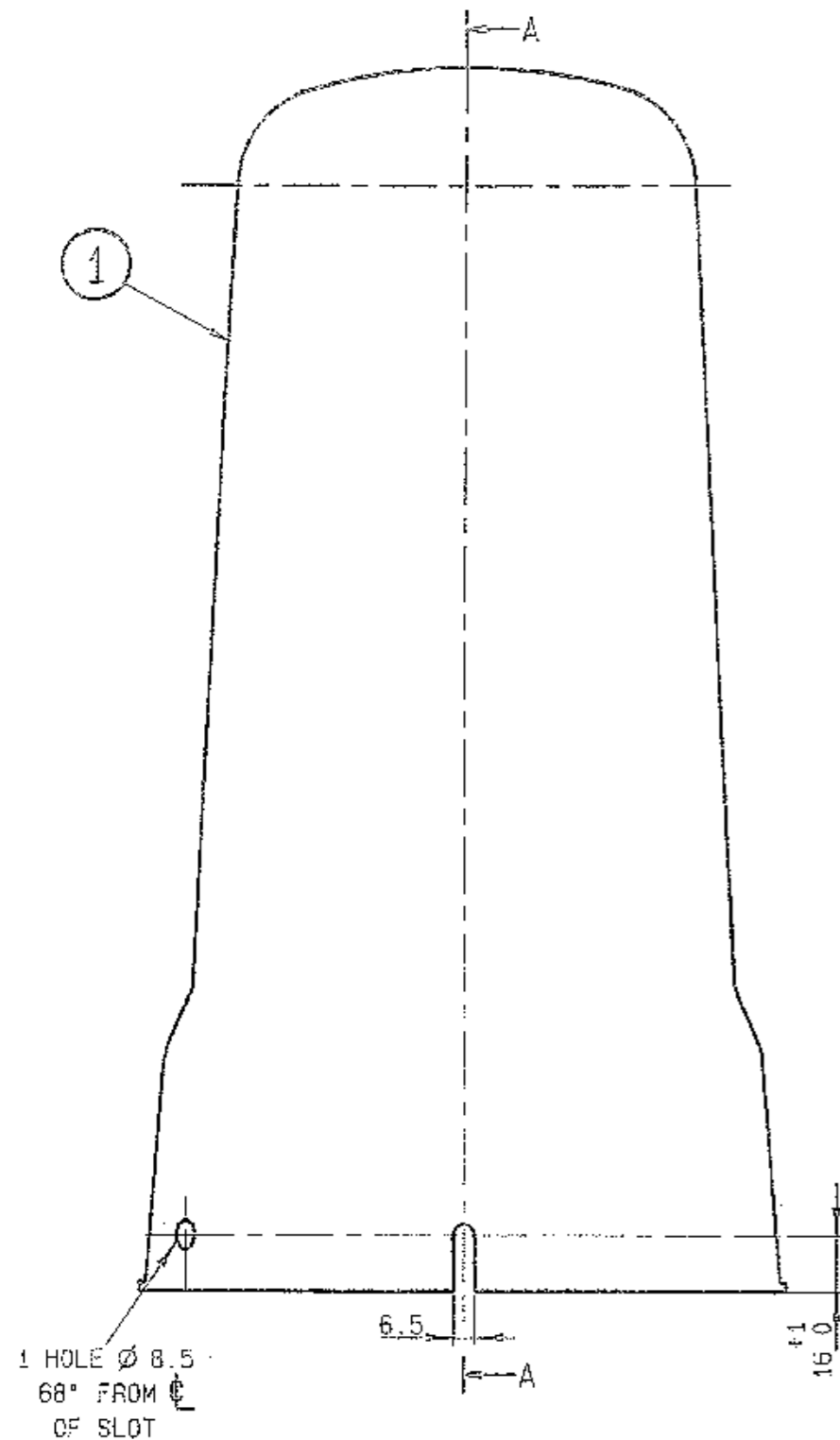
3	FLANGE HOOD CHS 88.9 x 4 TO AS1163	MILD STEEL		1
2	MOUNTING PLATE 10mm THICK TO AS/NZS 3678 OR AS/NZS 3679	MILD STEEL	HD GALV SEE NOTES 5 & 6	1
1	TUBE TAPERED 1:100 ON DIA, 5.0 MIN WALL THICKNESS	HR340 TO AS/NZS 1594		1
ITEM	DESCRIPTION	MATERIAL	FINISH	QTY

A. ORIGINAL ISSUE  
 B. ISSUE 10-04-06 ELBOW REPLACED BY FLANGE HOOD. Ø85 HOLE WAS TAPPED HOLE FOR 2.5 INCH BSP. SHEET SIZE WAS A3. MTS PLATE WAS 200 SO WITH 4 x Ø18 HOLES. BWT  
 C. ISSUE 3-6-2011 THICKNESS OF ITEM 1 WAS SHOWN AS 3mm. A.K.

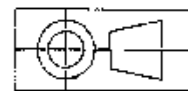
REFERENCE DRAWINGS	DRAWN RVC 13-09-99
MECH ASSEMBLY VM211-26	CHECKED BWT 14-09-99
LOWER PART MA VM211-22	PASSED B TAYLOR 12-09-1999
	APPROVED F YUNG MANAGER, EQUIPMENT & STGS DATE 15-09-1999
SUPPLY CAT NO 18233631	

ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS	
MECHANICAL DETAIL OF OUTREACH FOR MAST ARM TYPE 5XL (5.5 METRE OUTREACH) FOR USE IN REGION 'A' TO AS 1170.2 ONLY	

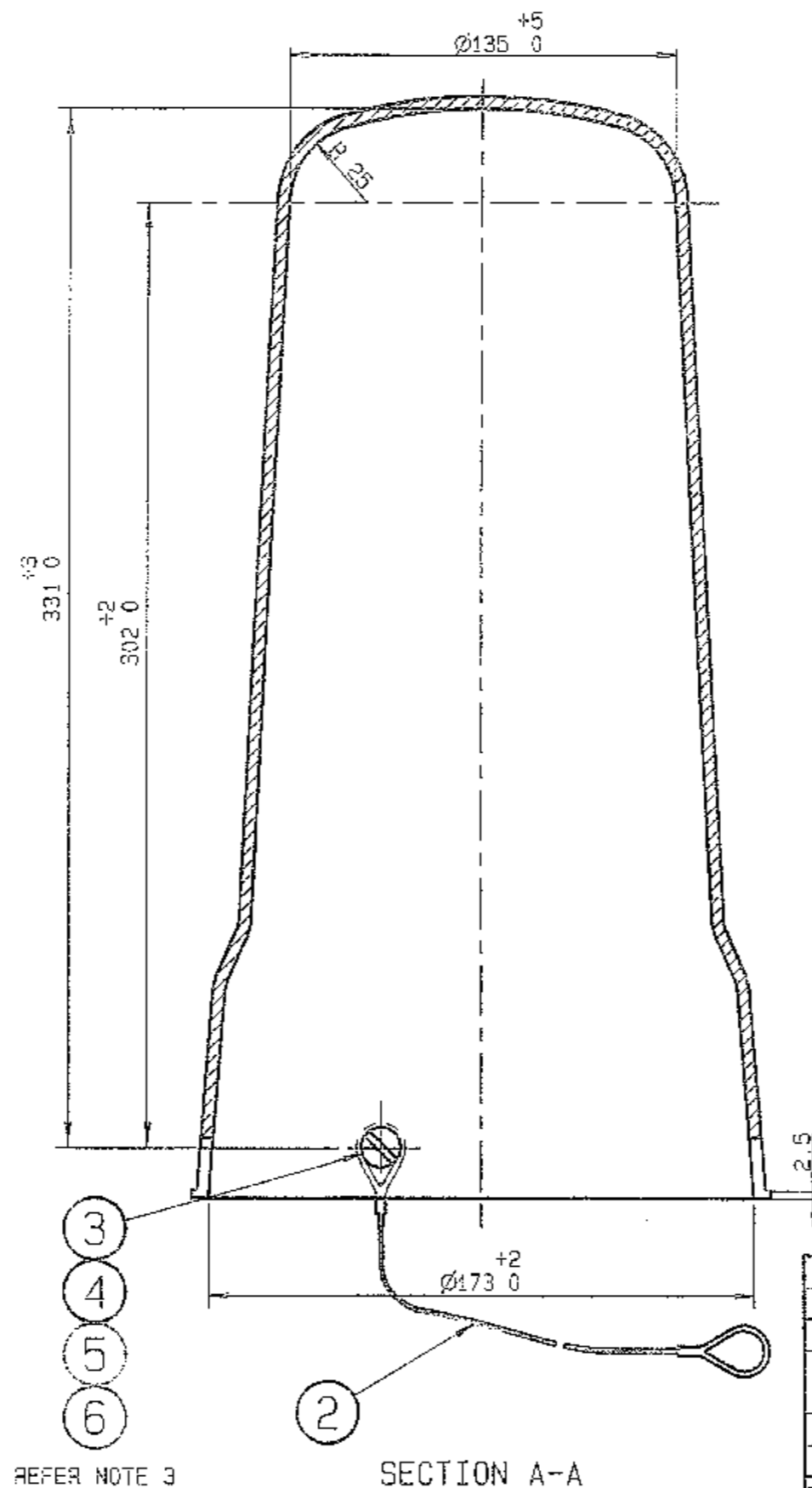
SHEET SIZE A2	FILE NO	SCALE 1:2 (OR AS SHOWN)	SHEET NO
SUPERSEDES ISSUE A		ISSUE B/C	
REG NO		VM211-28	



1 HOLE  $\varnothing$  8.5  
68° FROM  $\odot$   
OF SLOT



DIMENSIONS IN MILLIMETRES



REFER NOTE 3

SECTION A-A

MANUFACTURING DETAILS FOR ITEM 1

MATERIAL: UV STABILISED POLYPROPYLENE.

FINISH: SMOOTH MOULD FINISH.

COLOUR: TO CONFORM WITH AS 2700 COLOUR NO T33, SMOKE BLUE. PIGMENT TO BE MIXED INTO MOULDING MATERIAL. REFER TO AS 2339-1987 ADDITIONAL REQUIREMENTS (CLAUSE 4.3).

GENERAL: THE FINISHED CAP SHALL PASS THE FOLLOWING TESTS WITHOUT FUNCTIONAL IMPAIRMENT:

- (a) FREE FALL FROM 4 METRES ONTO A CONCRETE SURFACE;
- (b) FIVE DROPS IN DIFFERENT RELEASE ORIENTATIONS.

NOTES

1. MANUFACTURER'S IDENTIFICATION AND DATE OF SUPPLY TO BE MARKED CLEARLY, INDELIBLY AND WEATHER RESISTANT IN A CONVENIENT POSITION INSIDE THE CAP.
2. THE FINIAL CAP SHALL BE COMPATIBLE WITH THE REQUIREMENTS OF CLAUSE 4.3 OF AS 2339-1987.
3. THE ARRESTING WIRE ROPE (ITEM 2) AND ITEMS 4, 5 & 6 SHALL BE SUPPLIED FITTED TO THE OUTSIDE OF THE FINIAL CAP. THE SCREW HEAD OF ITEM 3 TO BE ON THE INSIDE OF CAP.
4. VARIATION IN WALL THICKNESS NOT TO EXCEED  $\pm$ 15% OF AVERAGE THICKNESS.

6	DOME HD HEX NUT M8	CR STL	1	ATLAS STEEL, VILLAWOOD
5	$\varnothing$ 8 INTERNAL TOOTH WASHER	CR STL	1	
4	$\varnothing$ 8 FLAT WASHER	CR STL	1	
3	CH HD SCREW M8 x 20	NYLON	1	
2	WIRE ROPE	VM200-20	1	PATINA PLASTICS, 65 HENDERSON RD TURRELLA
1	FINIAL CAP	SEE ABOVE	1	
ITEM	DESCRIPTION	MATERIAL (DRG NO)	QTY	AVAILABLE FROM

L ISSUE 05-01-93  
J/T TC 2302  
PIAN REDRANN.  
MATERIAL HAS  
FIBREGLASS.  
NOTE 4 ADDED.  
YB

RVC

REFERENCE PLANS	
SPLIT FINIAL CAP	VM213-2
ARRESTING WIRE	VM200-20
POST TOP ASSY	VM200-15

SUPPLY CAT NO  
7002 1242

ROADS AND TRAFFIC AUTHORITY OF NSW  
TRAFFIC SIGNALS

FINIAL CAP FOR TRAFFIC  
SIGNAL POST TOP ASSEMBLY

SCALE  
1 : 2

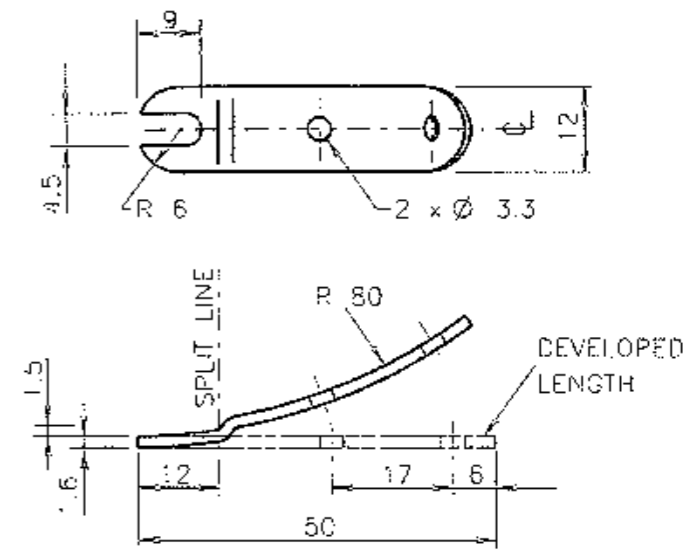
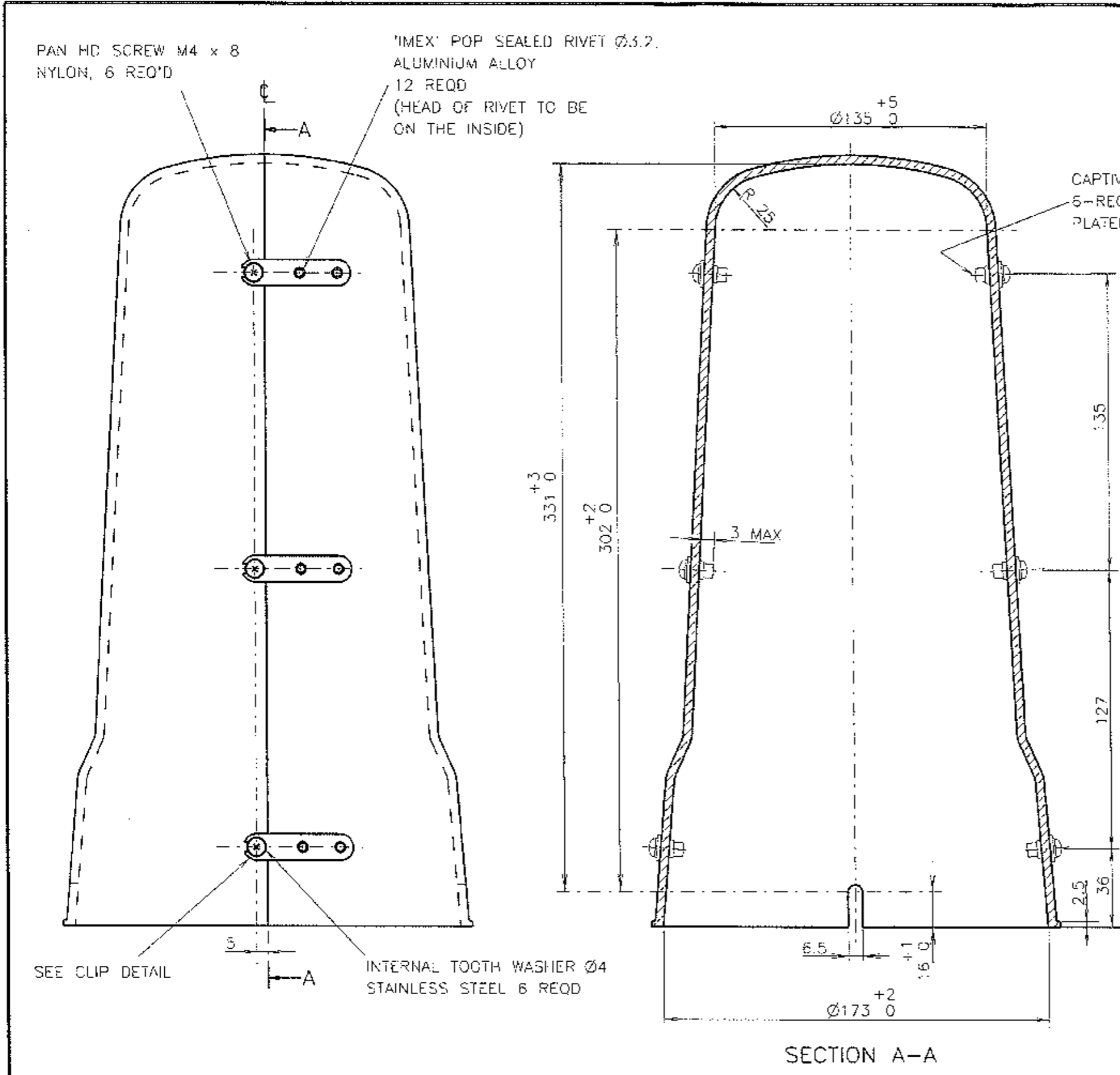
SUPERSEDES: ISSUE K	
DRAWN	D.H. 03-10-85
CHECKED	R.B. 10-10-85
PASSED	B.T. 21-10-85

APPROVED: 22-10-1985  
F. R. HULSCHER

SUPERVISING ENGINEER

ISSUE L

VM213-1



**MATERIAL:** UV STABILISED POLYPROPYLENE.

**FINISH:** SMOOTH MOULD FINISH.

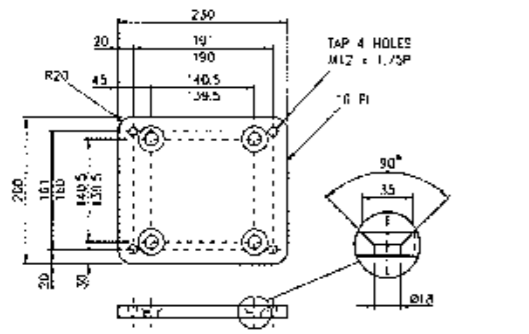
**COLOUR:** TO CONFORM WITH AS 2700 COLOUR NO T33. SMOKE BLUE. PIGMENT TO BE MIXED INTO MOULDING MATERIAL. REFER TO AS 2339 FOR ADDITIONAL REQUIREMENTS.

**GENERAL:** THE FINISHED CAP SHALL PASS THE FOLLOWING TESTS WITHOUT FUNCTIONAL IMPAIRMENT:

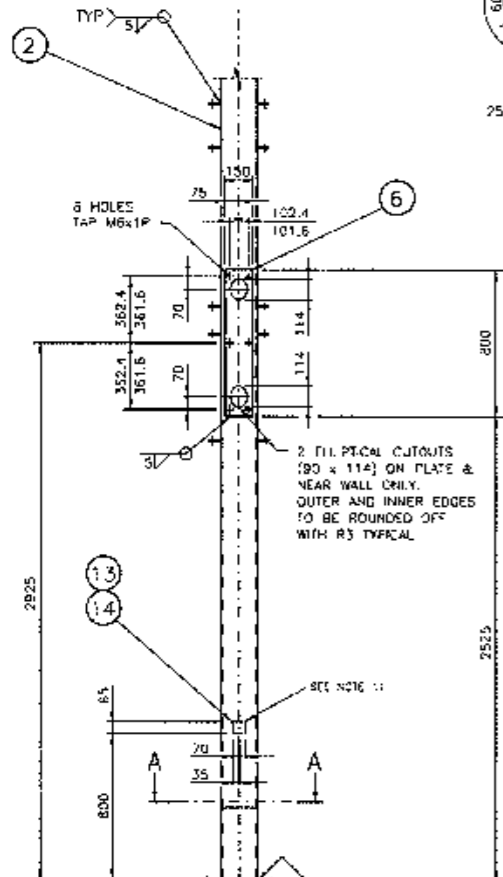
- (a) FREE FALL FROM 4 METRES ONTO A CONCRETE SURFACE;
- (b) FIVE DROPS IN DIFFERENT RELEASE ORIENTATIONS.

- NOTES**
1. MANUFACTURER'S IDENTIFICATION AND DATE OF SUPPLY TO BE MARKED CLEARLY, INDELIBLY AND WEATHER RESISTANT IN A CONVENIENT POSITION INSIDE THE CAP.
  2. THE FINIAL CAP SHALL BE COMPATIBLE WITH THE REQUIREMENTS OF AS 2339.
  3. VARIATION IN WALL THICKNESS NOT TO EXCEED  $\pm 15\%$  OF AVERAGE THICKNESS.

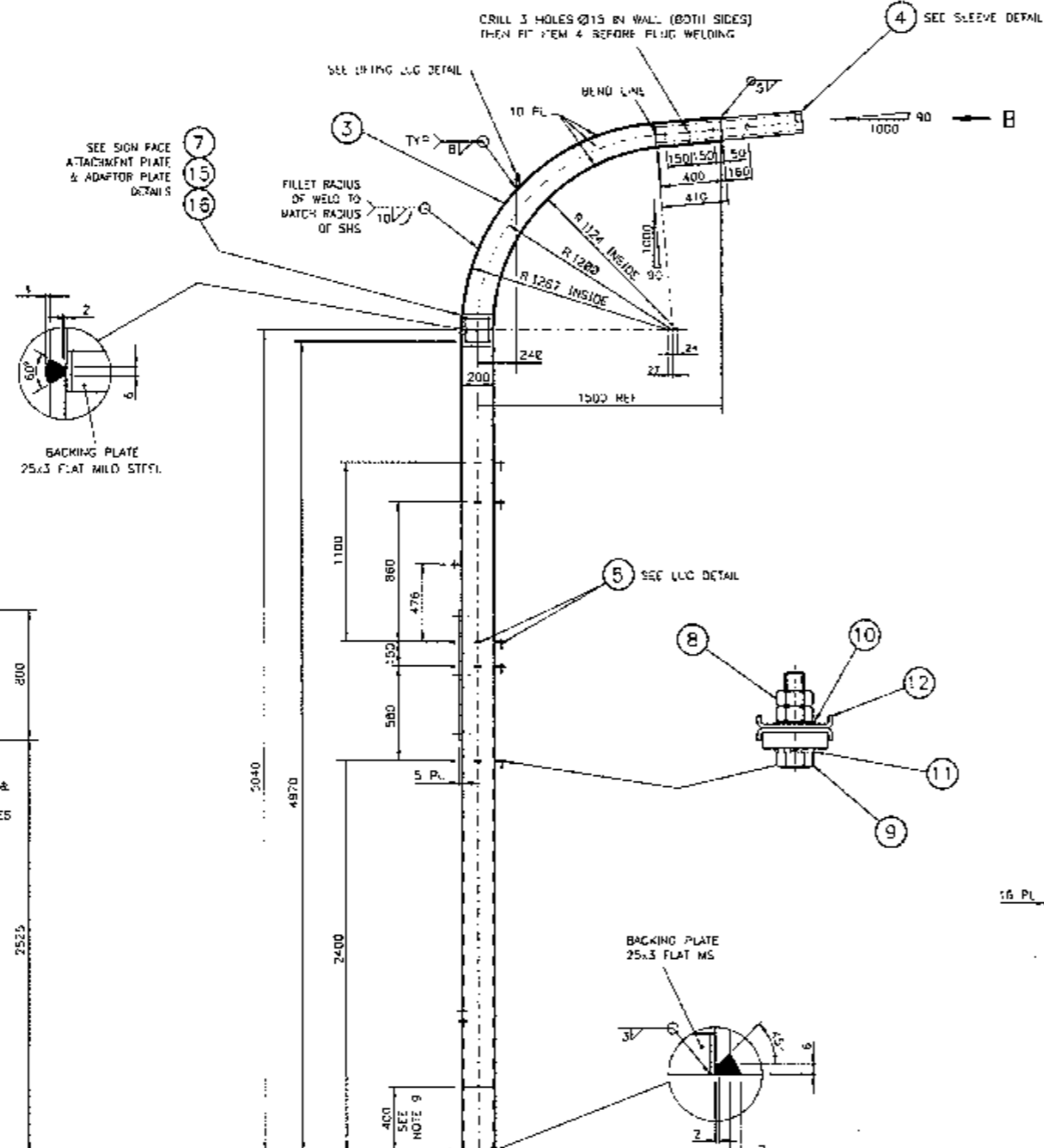
J ISSUE 07-01-93 PLAN REDRAWN J/I IC 2302 MATERIAL WAS FIBREGLASS NCTT 3 ADDED. COLOUR REF WAS TO CLAUSE 7, IN NOTE 2 REF WAS TO CLAUSE 7 Y/B RVC	K ISSUE: 18-11-13 FIXING SCREWS 6MM WERE STAINLESS STEEL. LC. BWT.	REFERENCE PLANS FINIAL CAP   VW213-1	ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS	SCALE 1 : 2 OR AS SHOWN	APPROVED: 03-11-1983 F. R. HULSCHER SUPERVISING ENGINEER	
		SUPPLY CAT NO 7002 1250	SPLIT FINIAL CAP FOR TRAFFIC SIGNAL POST TOP ASSEMBLY	SUPERSEDES: ISSUE 1	DRAWN   A. ROBSON CHECKED   R.B. 20-10-83 PASSED   B.T. 03-11-83	ISSUE   <input checked="" type="checkbox"/> K
				VM213-2		



ADAPTOR PLATE DETAIL  
SCALE 1:5



SECTION A-A

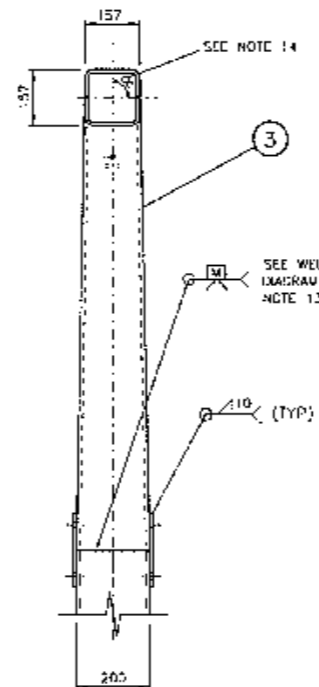


SIGN FACE ATTACHMENT PLATE DETAIL

SCALE 1:10

SLOT DETAIL

SCALE 1:1

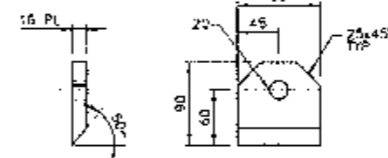


SLEEVE DETAIL

SCALE 1:10

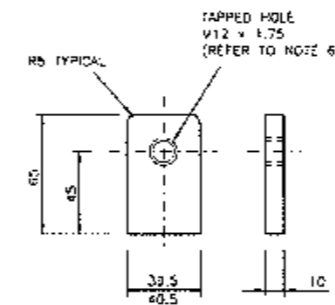
SLEEVE NOT SHOWN  
SCALE 1:10

VIEW B



LIFTING LUG DETAIL

SCALE 1:2



LUG DETAIL

SCALE 1:2

NOTES

- THE REQUIREMENTS OF SPECIFICATION MA/1 AND DRG ME10754 SHEET 7 SHALL BE APPLICABLE.
- THESE ITEMS SHALL BE MANUFACTURED BY MANUFACTURERS WHICH HAVE BEEN APPROVED BY THE RMS FOR THESE ITEMS.
- ALL WELDS TO BE IN ACCORDANCE WITH AS 1554 PART 1.
- REMOVE ALL BURRS, SHARP EDGES AND WELDING SCALE.
- FINISH: HOT DIPPED GALVANISED. TO BE IN ACCORDANCE WITH AS/NZS 4680.
- ALL THREADS TO BE CLEANED AFTER GALVANISING.
- ITEMS 8, 9, 10, 11 & 12 TO BE SUPPLIED FITTED TO EACH LUG AS SHOWN BEFORE DELIVERY. ITEM 9 TO POINT UPWARDS IN ALL LUGS. ITEMS 15 & 16 TO BE SUPPLIED FITTED.
- A PAIR OF LOCK WASHERS (ITEM 12) SHALL BE FITTED TO EACH LUG ASSEMBLY (DIMPLE TO DIMPLE).
- LOWER 400mm OF POLE TO BE TREATED AFTER GALVANISATION AS FOLLOWS:  
PAINT INSIDE & OUTSIDE WITH LITHOFORM No. 2 OR GALVAPREP;  
WASH WITH WATER AND APPLY ONE COAT OF DULUX AMERLOCK 400 GREY, OR AN APPROVED EQUIVALENT BEFORE DELIVERY.
- MOUNTING SURFACE OF LUG AND MAST ARM SURFACE TO BE WITHIN 90° ± 0.5°.  
THREADED HOLE IN MOUNTING LUG TO BE 90° ± 0.5° IN RELATION TO MOUNTING SURFACE.
- TO FIT THE ID PLATE (ITEM 13) IN THE POSITION SHOWN ON THE POST (ITEM 2), FIRST DRILL 4 HOLES USING DRILL No. 27, THEN GALVANISE ITEM 2 AND THEN AFFIX ID PLATE TO THE POST USING HAMMER DRIVE SCREWS No. 8, 1/2 INCH LONG, ZINC PLATED.
- TOLERANCE OF ALL ARM DIMENSIONS UNLESS INDICATED OTHERWISE:  
- FOR DIMENSIONS UP TO AND INCLUDING 300: ±1  
- FOR DIMENSIONS OVER 300 AND UP TO AND INCLUDING 1300: ±2  
- FOR DIMENSIONS OVER 1300: ±4  
- ANGULAR TOLERANCE: ±1°
- THE BUTT WELD TO BE GROUND FLAT TO ALLOW THE PLATE (ITEM 7) TO SIT FLAT. DO NOT GRIND FLAT ON THE OTHER 2 SIDES.
- CARE IS TO BE TAKEN TO ENSURE THE 90° ANGLE (C) IN VIEW B OF THE OUTREACH IS WITHIN THE ANGULAR TOLERANCE (AS SET OUT IN NOTE 12).

ITEM	DESCRIPTION	MATERIAL	FINISH	QTY
7	SIGN FACE ADAPTOR PLATE TO AS/NZS 3678 (SEE DETAIL)	MILD STEEL	HOT DIP GALV	2
10	CSK HEAD SCREW M16 x 40 TO AS/NZS 1111	STAINLESS STEEL	NATURAL	8
14	HAMMER DRIVE SCREWS No. 8, 1/2 INCH LONG	STAINLESS STEEL	NATURAL	4
13	IDENTIFICATION PLATE (SEE DRG No. VM215-5)	STAINLESS STEEL	NATURAL	1
12	LOCK WASHER (SEE DRG No. VM200-24)	STAINLESS STEEL	NATURAL	32
11	SPRING WASHER M12	SPRING STEEL	GALV TO AS/NZS 4680	6
10	FLAT WASHER M12 TO AS1237	MILD STEEL	GALV TO AS/NZS 1680	16
9	HEXAGON HEAD SET SCREW M12 x 80 TO AS/NZS 1111	MILD STEEL	GALV TO AS1214	16
8	HEXAGON NUT M12 TO AS/NZS 1112	MILD STEEL	GALV TO AS1214	32
7	SIGN FACE ATTACHMENT PLATE TO AS/NZS 3678 (SEE DETAIL)	MILD STEEL		2
6	MOUNTING PLATE STEEL TO AS/NZS 3678	MILD STEEL		1
5	MOUNTING LUG TO AS1442/AS/NZS 3678 (SEE DETAIL)	MILD STEEL	HOT DIP GALV	15
4	SLEEVE STEEL TO AS/NZS 3678 (SEE DETAIL)	MILD STEEL	REFER NOTES 2 TO 6	
3	TRANSITION STEEL TO AS/NZS 3678	MILD STEEL		
2	POST STEEL HOLLOW SECTION 230 x 202 x 9 SHS TO AS1163	STEEL C350		
1	BASE PLATE STEEL TO AS/NZS 3678	STEEL PLATE		

APPROVAL BODY BY MECH ENGINEERING SECTION  
DESIGNED BY MECH ENGINEERING SECTION  
CHECKED BY MECH ENGINEERING SECTION  
DATE 11-02-2000

ROADS AND MARITIME SERVICES TRAFFIC SIGNALS	SHEET SIZE A1	FILE NO	SCALE 1:20 OR AS SHOWN	SHEET NO
MECHANICAL DETAILS OF TYPE 9 MAST ARM MAST COLUMN	SUPERSEDES ME10754 SHEET 2&3 ISSUE 1/2/3/4/5/6	REG NO		VM215-2

A. ORIGINAL ISSUE	B. ISSUE 16-03-2000	C. ISSUE 21-04-2006	D. ISSUE 20-11-2009	E. ISSUE 27-02-2014	F. ISSUE 28-05-2017	G. ISSUE 17-11-2017
16 HOLES	16 HOLES	16 HOLES	16 HOLES	16 HOLES	16 HOLES	16 HOLES

REFERENCE DRAWINGS	DRAWN IN JUNE 1999
DESIGN ARRANGEMENT VM215-1	CHECKED
OUTREACH ARM VM215-2	DATE 09-03-2000
SUPPORT VM215-3	MECH ENGINEER SECTION
ID PLATE VM215-4	PASSED ON 1-2-2000
LOCK WASHER VM200-24	APPROVED
MECH ENGINEERING NOTES & WELD DET'S	DATE 11-02-2000

CATALOGUE No.  
1823 3607

ARM DIMENSION (L)	CAT No.
1000	18233593
1500	18233594
2000	18233595
2500	18233596
3000	18233597
3500	18233598
4000	18233599
4500	18233600
5000	18233601
5500	18233602

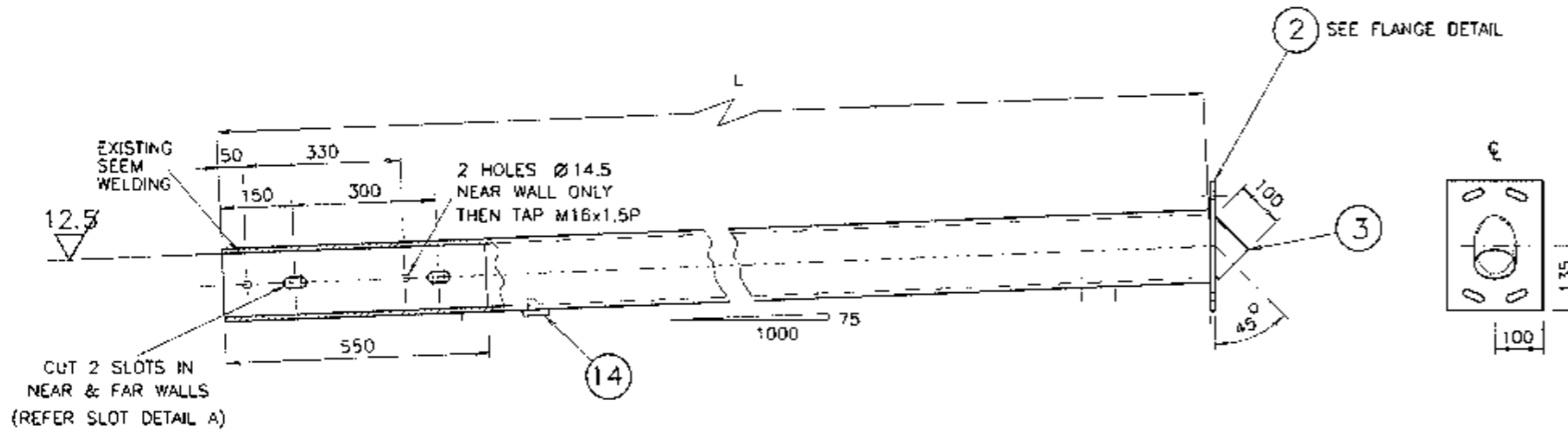
ARM LENGTH TABLE

NOTES

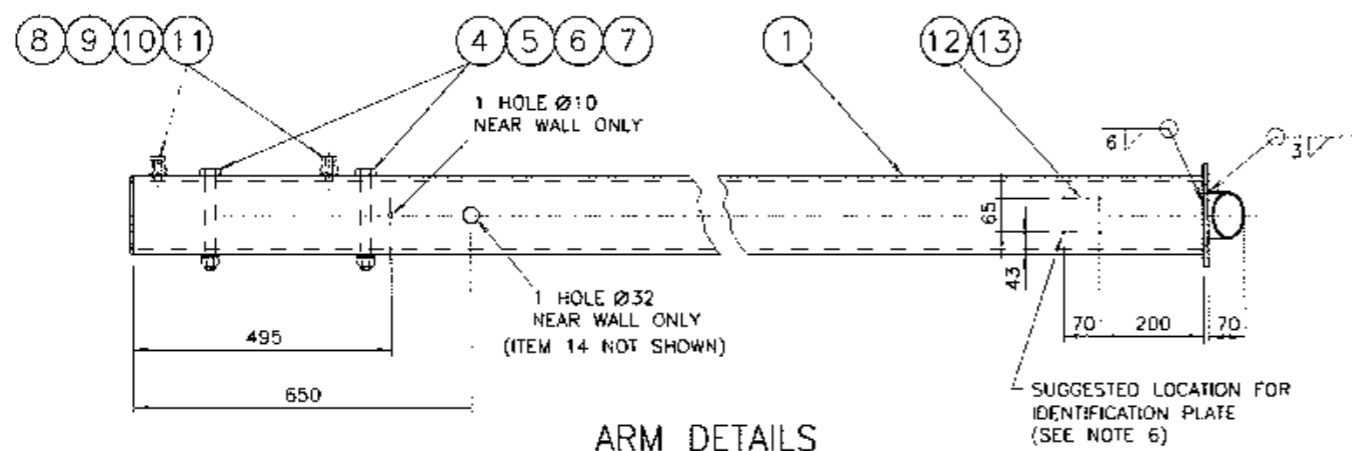
1. THE REQUIREMENTS OF SPECIFICATION MA/1 AND ORG ME10754 SHEET 7 SHALL BE APPLICABLE.
2. THESE ITEMS SHALL BE MANUFACTURED BY MANUFACTURERS WHICH HAVE BEEN APPROVED BY THE RMS FOR THESE ITEMS.
3. ALL WELDS TO BE IN ACCORDANCE WITH AS/NZS 1554 PART 1.
4. REMOVE ALL BURRS, SHARP EDGES AND WELDING SCALE BEFORE GALVANISING AND CLEAR THREADS AFTER GALVANISING.
5. FINISH: HOT DIPPED GALVANISED IN ACCORDANCE WITH AS/NZS 4680.
6. TO FIT THE ID PLATE (ITEM 12) IN THE POSITION SHOWN ON THE ARM (ITEM 1), FIRST DRILL 4 HOLES USING DRILL No. 27, THEN GALVANISE ITEM 1 AND THEN AFFIX ID PLATE TO THE ARM USING HAMMER DRIVE SCREWS No. 8, 1/2 INCH LONG, ZINC PLATED.
7. ALL ITEMS TO BE SUPPLIED FITTED AS SHOWN BEFORE DELIVERY.
8. TOLERANCE OF ALL ARM DIMENSIONS UNLESS INDICATED OTHERWISE:
  - FOR SLOTS AND POSITION OF SLOT CENTRES:  $\pm 0.5$
  - FOR DIMENSIONS UP TO AND INCLUDING 350:  $\pm 1$
  - FOR DIMENSIONS OVER 350 AND UP TO AND INCLUDING 1300:  $\pm 2$
  - FOR DIMENSIONS OVER 1300:  $\pm 4$
  - ANGULAR TOLERANCE:  $\pm 1^\circ$

ORIGINAL DESIGN BY	ORIGINAL REFERENCES
MECH ENGINEERING SECTION 32 ROBINSON AVENUE ROSEBURY NSW 2068 PHONE (02) 9062-5294 FACSIMILE (02) 9422-5411	MECHANICAL ENGINEERING SECTION MPS DWG ME10754 SH5 ISSUE E DESIGN R7A CHECKED JE DRAWING RA CHECKED JE APPROVED BK 22-12-1998

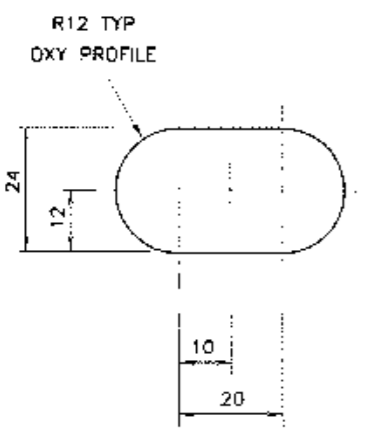
ITEM	DESCRIPTION	MATERIAL	FINISH	QTY
14	KELVINDALE PLUG CP15X	PLASTIC	NATURAL	1
13	HAMMER DRIVE SCREWS No. 8, 1/2 INCH LONG	STAINLESS STEEL	NATURAL	4
12	IDENTIFICATION PLATE (REFER TO DRC No. VM215-5)	STAINLESS STEEL	NATURAL	1
11	WASHER, FLAT $\phi 16$ TO AS 1237	MILD STEEL	GALVANISED	2
10	WASHER, SPRING $\phi 16$	SPRING STEEL	TO AS/NZS 4680	2
9	SCREW, HEX HEAD M16 x 35 TO AS/NZS 1111	MILD STEEL		2
8	NUT, HEX M16 TO AS/NZS 1112	MILD STEEL	GALVANISED	2
7	NUT, HEX M20 TO AS/NZS 1112	MILD STEEL	TO AS 1214	2
6	SCREW, HEX HEAD M20 x 200 TO AS/NZS 1111	MILD STEEL		2
5	WASHER, FLAT $\phi 20$ LARGE SERIES TO AS 1237	MILD STEEL		4
4	WASHER, SPRING M20	SPRING STEEL	GALVANISED	2
3	FLANGE HOOD CHS 88.9 x 4 TO AS 1163	STEEL	TO AS/NZS 4680	1
2	FLANGE PLATE 10mm STEEL PLATE TO AS/NZS 3678	STEEL		1
1	ARM SHS 150 x 150 x 6 C350 TO AS 1163	STEEL		1



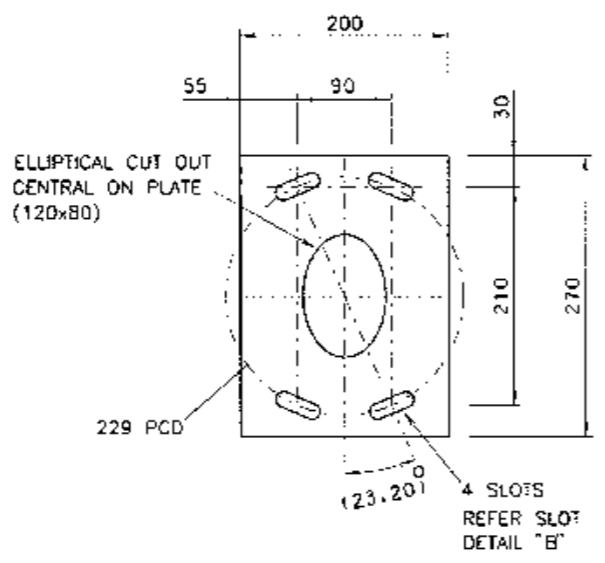
CUT 2 SLOTS IN NEAR & FAR WALLS (REFER SLOT DETAIL A)



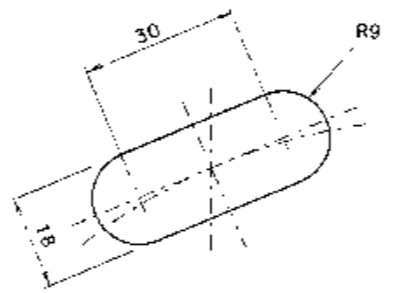
ARM DETAILS  
SCALE 1:10



SLOT DETAIL A  
SCALE 1:1



FLANGE DETAIL  
SCALE 1:5



SLOT DETAIL B  
SCALE 1:1

DIMENSIONS ARE IN MILLIMETRES

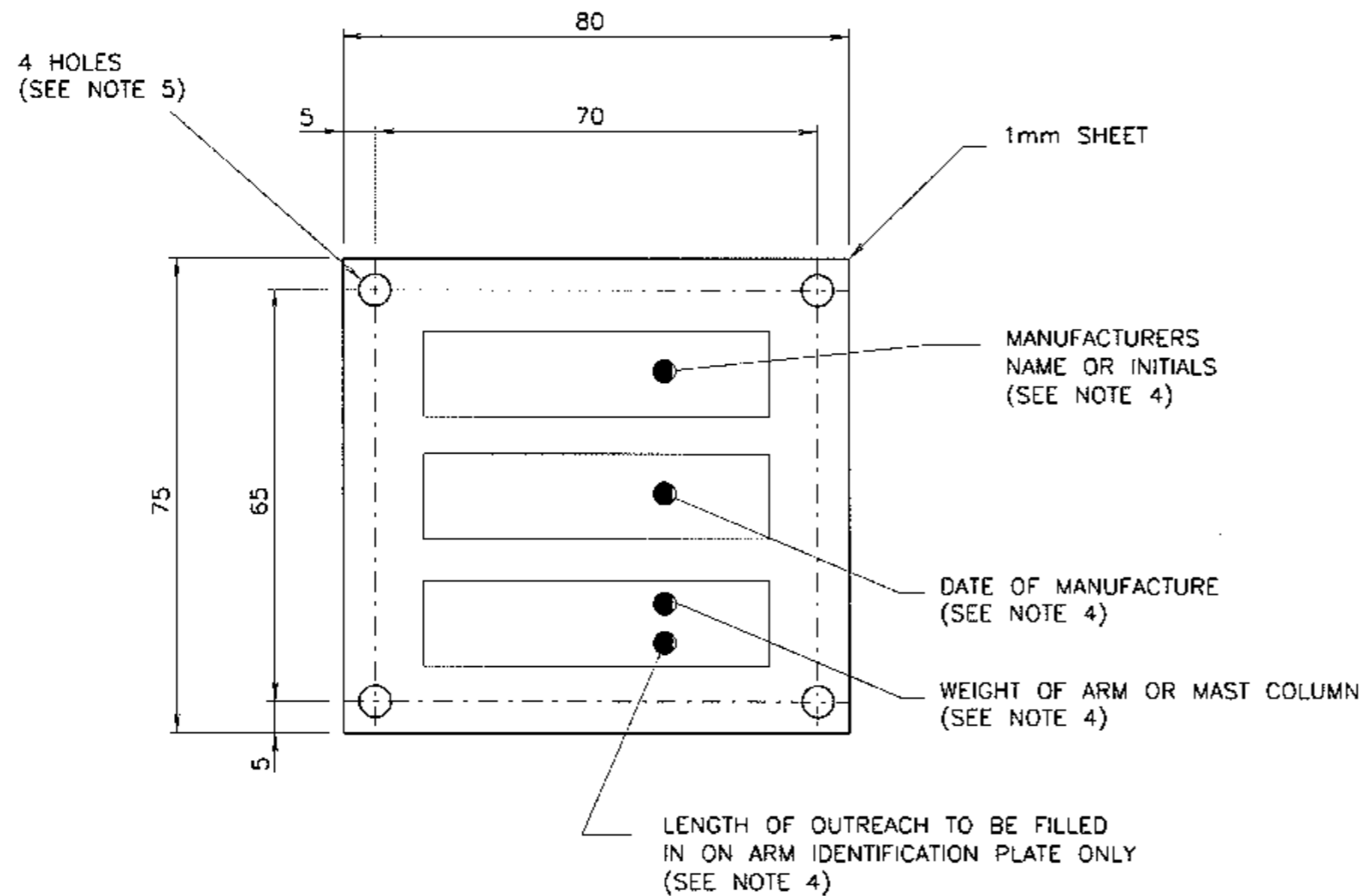
<b>A ORIGINAL ISSUE</b>	<b>B ISSUE 19-02-01</b>	<b>C ISSUE 20-11-09</b>	<b>D ISSUE 08-05-2013</b>	<b>E ISSUE 12-11-2013</b>	<b>F ISSUE 17-11-2017</b>
J1 TC3051 $\phi 32$ HOLE & ITEM 14 ADDED FOR CCTV CABLE ENTRY RVC	MACHINING ADDED. MF BWT	FLANGE PLATE WAS 150mm WIDE. SLOT DETAIL WAS 15mm WIDE. L.C. BWT.	ITEM 6 WAS 180mm LONG, NOW 200mm. L.C. BWT.	ELLIPTICAL CUT OUT WIDTH ON FLANGE PLATE WAS 85. WELDING SIZE & SYMBOL CORRECTION FOR ITEM 1 TO ITEM 2. BWT	

GEN. ARRANGEMENT	VM215-1	CHKD BY	2-3-2000
MAST COLUMN	VM215-2	MECH ENGINEER SECTION	
UPPER SUPPORT	VM215-4	PASSED EWI	5-3-2000
ID PLATE	VM215-5	APPROVED	
GEN. MANUFACTURING NOTES & WELD DTS	CW833e	T.Y. NO.	
		DATE	8-3-2000

ROADS AND MARITIME SERVICES TRAFFIC SIGNALS		SHEET SIZE	FILE NO	SCALE	SHEET NO
MECHANICAL DETAILS OF OUTREACH ARM FOR TYPE 9 MAST ARM		A2		AS SHOWN	

SUPERSEDES ME10754 SH 5		ISSUE	A B C D E F
VM215-3			





### NOTES

1. MATERIAL: GRADE 304 STAINLESS STEEL
2. TOLERANCE:  $\pm 1\text{mm}$ .
3. REMOVE ALL BURRS AND SHARP EDGES.
4. MANUFACTURERS IDENTIFICATION, DATE OF SUPPLY AND WEIGHT OF ARM OR MAST COLUMN TO BE CLEARLY AND INDELIBLY MARKED.
5. THE HOLE SIZE SHALL BE SUCH AS TO SUIT HAMMER DRIVE SCREWS No. 8. REFER TO VM215-2.

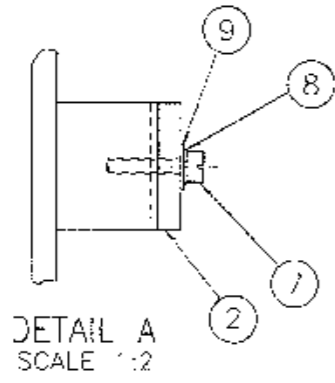
## IDENTIFICATION PLATE

DIMENSIONS ARE IN MILLIMETRES

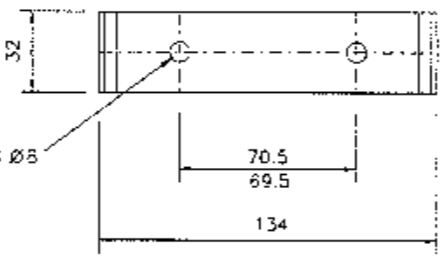
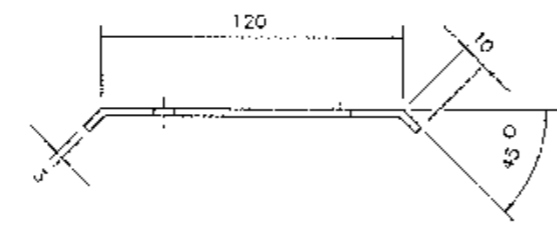
ORIGINAL DESIGN BY MECH ENGINEERING SECTION 52 ROBSCHIED AVENUE ROSEBERY NSW 2018 PHONE (02) 9662-5204 FACSIMILE (02) 9662-5411		<b>ORIGINAL REFERENCES</b> <b>MECHANICAL ENGINEERING SECTION</b> MES DWG ME10754 SH7 ISSU E DESIGN RTA CHECKED DRAWING HA CHECKED APPROVED RK 22-12-1998
--	--	---

A ORIGINAL ISSUE B ISSUE 06.06.08 WEIGHT OF ARM OR MAST COLUMN TO BE INCLUDED IN IDENTIFICATION P-ATE. MC BWT C ISSUE 17-11-17 MOUNTING HOLE SIZE DELETED. NOTE 5 ADDED IH EWT	REFERENCE DRAWINGS GEN ARRANGEMENT VM215-1 MAST COLUMN VM215-2 OUTREACH ARM VM215-3 UPPER SUPPORT VM215-4		ROADS AND MARITIME SERVICES TRAFFIC SIGNALS		SCALE FULL SCALE		APPROVED: 11-02-2000 MANAGER T YUNG EQUIPMENT & STANDARDS	
	<b>MECHANICAL DETAILS          OF IDENTIFICATION PLATE FOR          TYPE 9 &amp; 10/11 MAST ARMS</b>				SUPERSEDES: ME10754 S-1 7 DRAWN RVC 11-05-99 CHECKED GWD 30-12-99 MECH ENG SECTION PASSED GWT 13-10-99	ISSUE <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C		

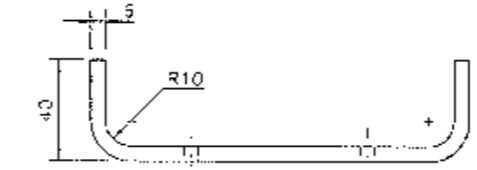
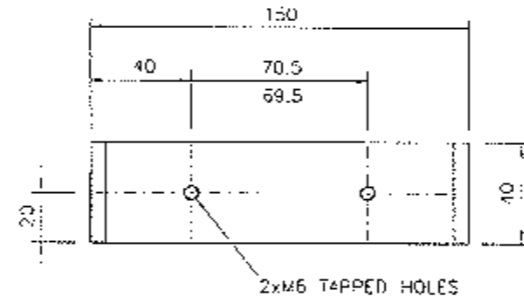
VM215-5



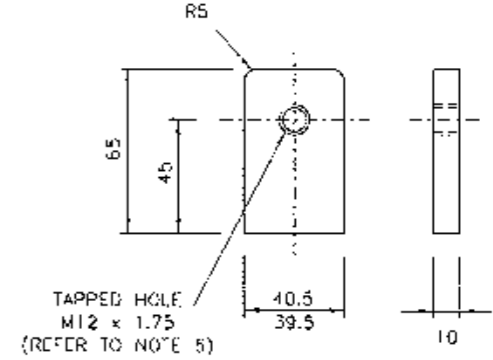
DETAIL A  
SCALE 1:2



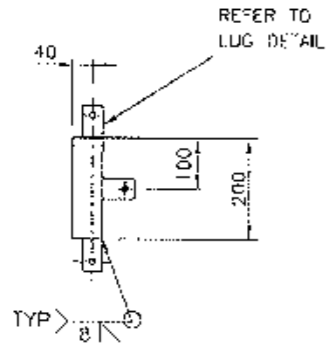
CABLE CLAMP DETAIL  
ITEM 2 (SCALE 1:2)



MOUNTING BAR  
DETAIL  
SCALE 1:2

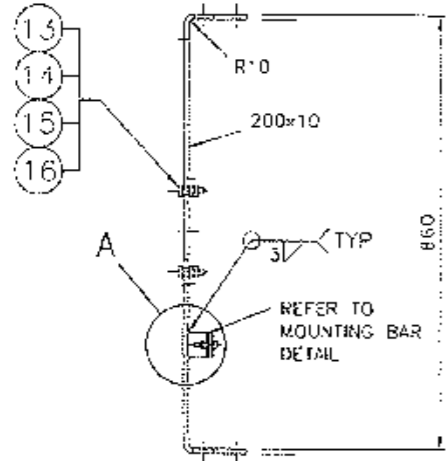


LUG DETAIL  
SCALE 1:2

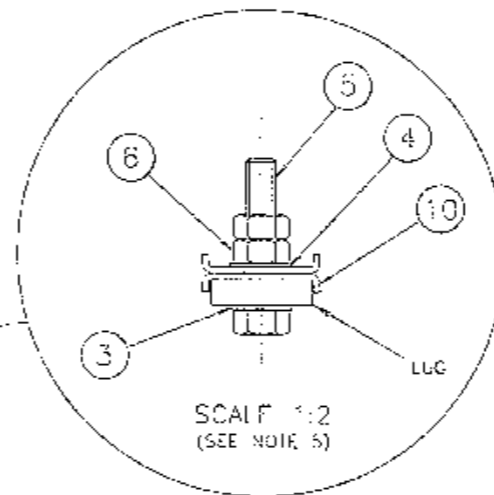
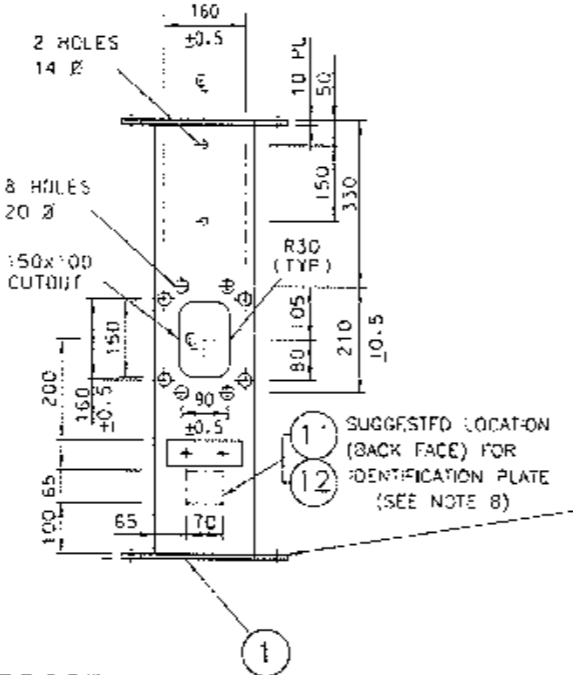


NOTES

- THE REQUIREMENTS OF SPECIFICATION MA/1 AND DRG ME10754 SHEET 7 SHALL BE APPLICABLE.
- REMOVE ALL SHARP EDGES, BURRS & WELDING SCALE BEFORE GALVANISING AND CLEAR ALL THREADS AFTER GALVANISING.
- ALL WELDS TO BE IN ACCORDANCE WITH AS/NZS 1554 PART 1.
- FINISH: HOT DIPPED GALVANISED IN ACCORDANCE WITH AS/NZS 4680.
- ITEMS 2 TO 16 TO BE SUPPLIED FULLY ASSEMBLED AS SHOWN BEFORE DELIVERY. ITEM 5 TO POINT UPWARDS IN ALL LUGS.
- TAPPED HOLES TO BE 90 ± 1° TO SURFACE OF LUG.
- TOLERANCE OF ALL POST DIMENSIONS UNLESS INDICATED OTHERWISE:
  - FOR SLOTS AND POSITION OF SLOT CENTRES: ± 0.5
  - FOR DIMENSIONS UP TO AND INCLUDING 300: ± 1
  - FOR DIMENSIONS OVER 300: ± 2
  - ANGULAR TOLERANCE: ± 1°
- TO FIT THE ID PLATE (ITEM 11) IN THE POSITION SHOWN ON THE LANTERN SUPPORT (ITEM 1), FIRST DRILL 4 HOLES USING DRILL No. 27, THEN GALVANISE ITEM 1 AND THEN AFFIX ID PLATE TO THE LANTERN SUPPORT USING HAMMER DRIVE SCREWS No. 8, 1/2 INCH LONG, ZINC PLATED.



LANTERN SUPPORT  
SCALE 1:10



ITEM	DESCRIPTION	MATERIAL	FINISH	QTY
16	WASHER, SPRING M16	SPRING STEEL		4
15	MUT HEX M16 TO AS/NZS 1112	MILD STEEL	GALVANISED TO AS/NZS 1214	8
14	WASHER, FLAT M16 TO AS 1237	MILD STEEL		8
13	SCREW HEX. HEAD M16x60 TO AS/NZS 1111	MILD STEEL		4
12	HAMMER DRIVE SCREWS No. 8, 1/2 INCH LONG	STAINLESS STEEL		4
11	IDENTIFICATION PLATE (REFER TO DRG No. VM215-5)	STAINLESS STEEL		1
10	LOCK WASHER (REFER TO DRG No. VM200-24)	STAINLESS STEEL		12
9	WASHER, FLAT M6 TO AS 1237	STAINLESS STEEL	NATURAL	2
8	WASHER, SPRING M6	STAINLESS STEEL		2
7	PAN HEAD PHILLIPS DRIVE SCREW, M6x40 TO AS 1237	STAINLESS STEEL		2
6	NUT, HEX M12 TO AS/NZS 1112	MILD STEEL	GALVANISED TO AS/NZS 1214	12
5	SCREW, HEX HEAD M12 x 60 TO AS/NZS 1111	MILD STEEL		6
4	WASHER, FLAT M12 TO AS 1237	MILD STEEL		6
3	WASHER, SPRING M12	SPRING STEEL	GALVANISED	5
2	CABLE CLAMP (SEE DETAIL)	MILD STEEL	TO AS/NZS 4680	1
1	LANTERN SUPPORT BRACKET	MILD STEEL		1

DIMENSIONS ARE IN MILLIMETRES

A ORIGINAL ISSUE  
B ISSUE 08-05-13  
PLAN REVISED FOR SUPPORT TO SUIT ALL MAST ARMS & MULTIFUNCTION POLES.  
L.C. BMT  
C ISSUE 10-11-13  
7x14 DIA HOLES ADDED FOR CCTV CAMERA  
L.C. BMT  
D ISSUE 11-03-2015  
CABLE CLAMP MOUNTING BAR REVISED. ITEM 7 DELETED. ITEMS 9 TO 17 RENUMBERED TO 7 TO 16. ITEM 8 WAS CH OR FLAIN HEAD SCREW.  
DB BMT

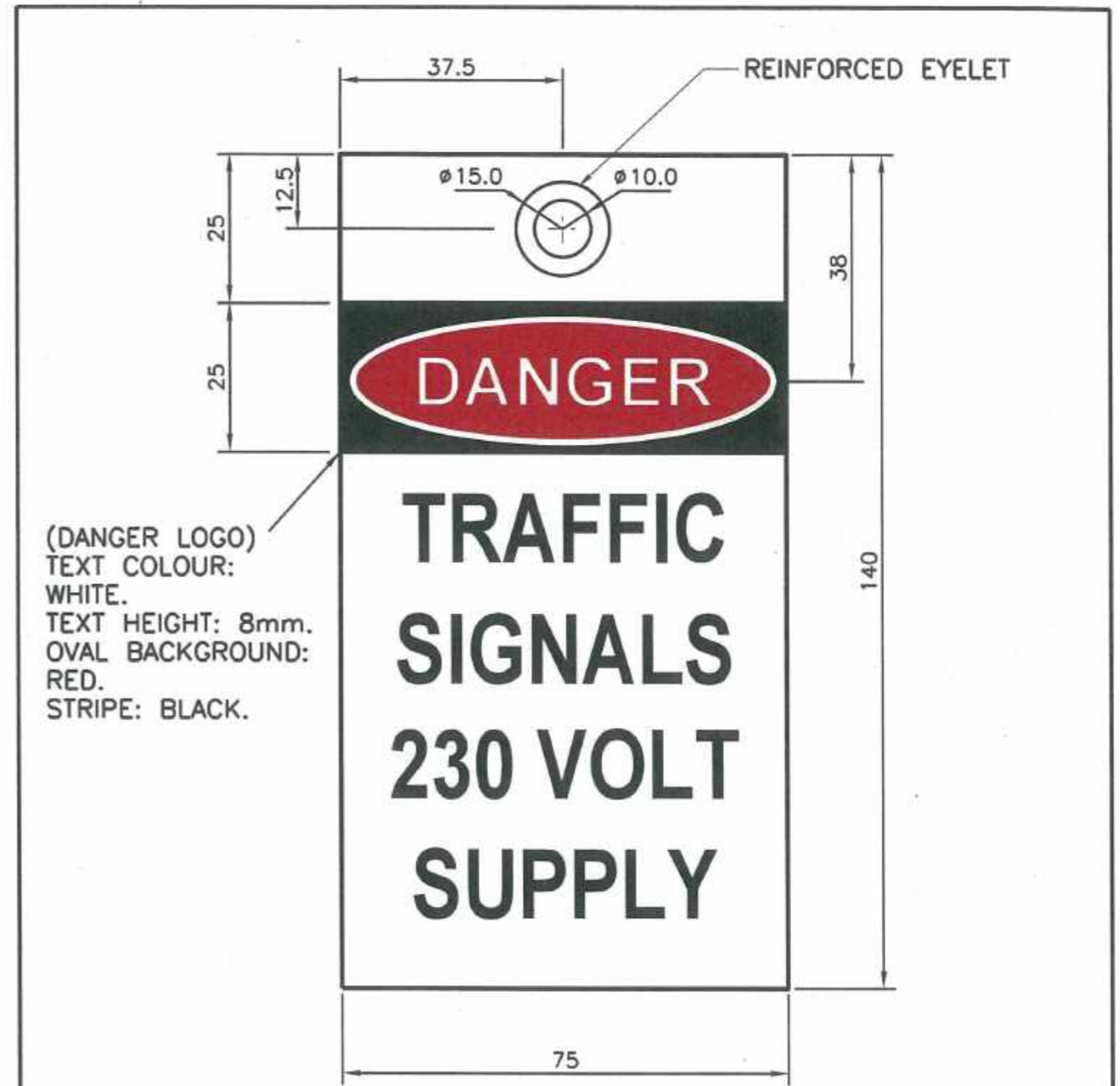
CATALOGUE No.  
1823 0439

REFERENCE DRAWINGS  
DRAWN G.BRENNAN 22-07-04  
CHECKED B.TAYLOR 05-08-04  
PASSED B.TAYLOR 05-08-04  
APPROVED S.SRIVASTAVA  
DATE 10-08-04

ROADS AND MARITIME SERVICES  
TRAFFIC SIGNALS  
MECHANICAL DETAILS  
OF UPPER LANTERN SUPPORT  
TO SUIT 200mm LANTERNS ON  
MAST ARMS & MULTIFUNCTION POLES

SHEET SIZE A2  
FILE NO  
SCALE AS SHOWN  
SHEET NO  
SUPERSEDES  
ISSUE A/B/C  
REG NO  
VM215-6





(DANGER LOGO)  
 TEXT COLOUR:  
 WHITE.  
 TEXT HEIGHT: 8mm.  
 OVAL BACKGROUND:  
 RED.  
 STRIPE: BLACK.

**NOTES**

1. MATERIAL; PROPYLENE, 0.6mm THICK; WHITE BACKGROUND UNLESS STATED OTHERWISE.
2. TEXT TO BE 10mm HIGH, FONT: ARIEL, COLOUR: BLACK, UNLESS STATED OTHERWISE.
3. PRINTING TO BE DOUBLE SIDED.

DIMENSIONS IN MILLIMETRES

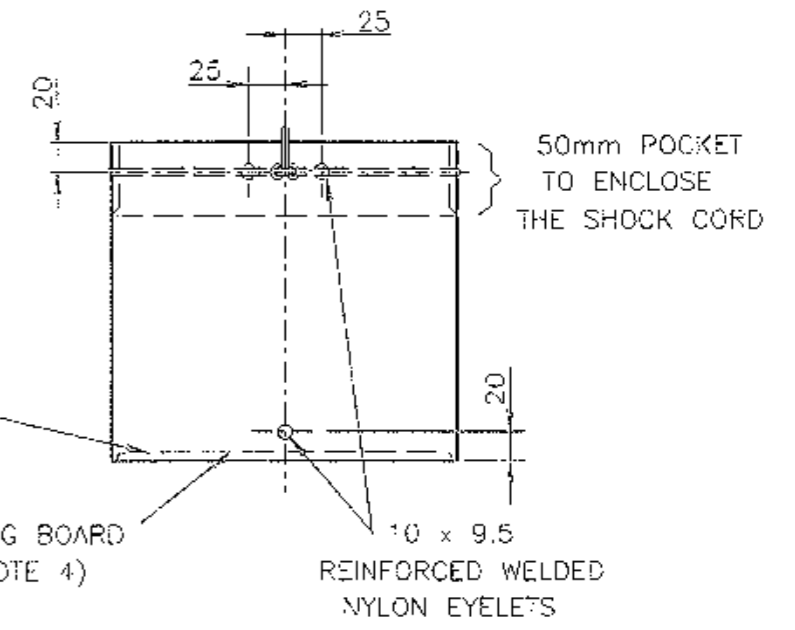
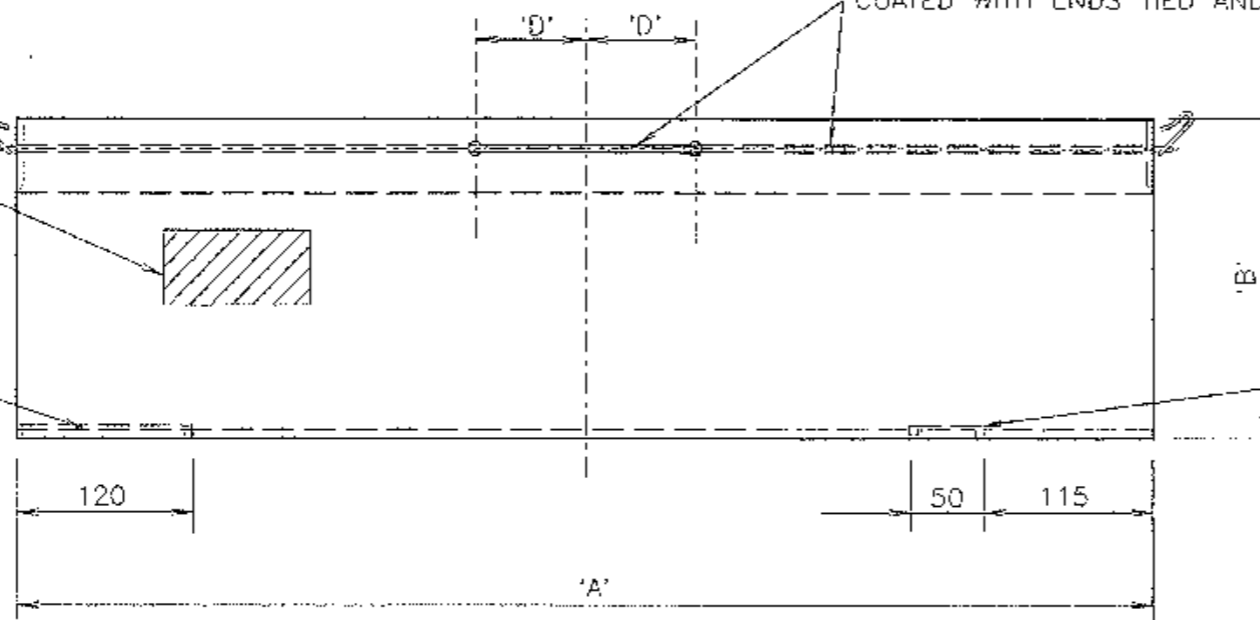
A ISSUE			REFERENCE DRAWINGS	
ROADS AND MARITIME SERVICES TRAFFIC SIGNALS		SCALE 1 : 1	APPROVED: 17-10-2016 K. SHI	
DANGER LABEL FOR TRAFFIC SIGNAL SUPPLY CABLE		SUPERSEDES: -	ISSUE A	
		DRAWN D.BAIGORRIA CHECKED I.HAYES PASSED 14-09-2016 B. TAYLOR	VM416-2	

TWO GALVANISED STEEL HOOKS  
(SEE DETAIL A)

16mm NYLON SHOCK CORD POLYETHYLENE  
COATED WITH ENDS TIED AND CRIMPED

SUGGESTED LOCATION  
FOR MARKING  
(ON THE INSIDE)  
REFER NOTE 5

SEE NOTE 3

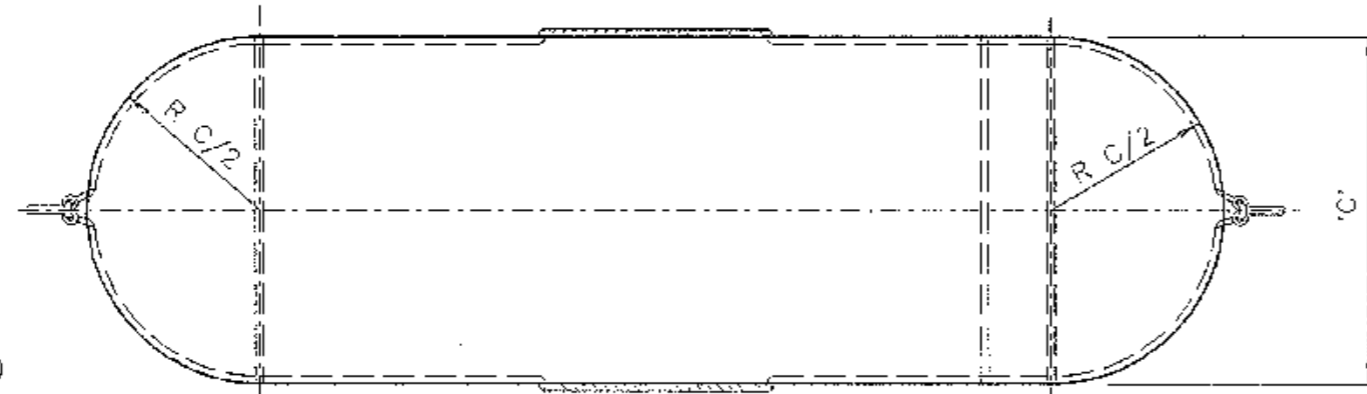


STIFFENING BOARD  
(SEE NOTE 4)

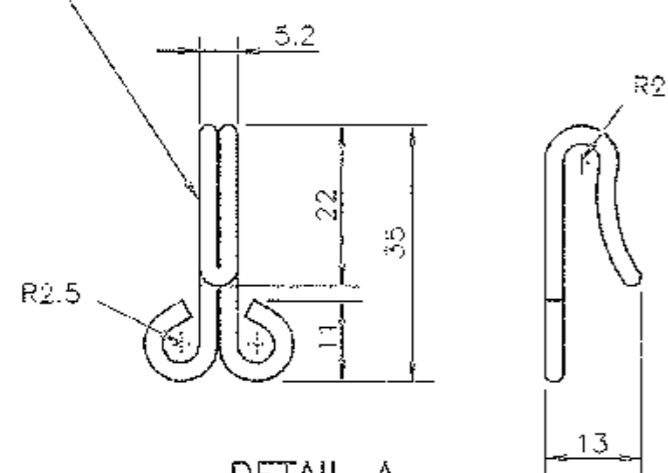
10 x 9.5  
REINFORCED WELDED  
NYLON EYELETS

NOTES

- THE MATERIAL FOR THE COVER SHALL BE 840 DENIER NYLON WEAVE COATED WITH PVC AS MANUFACTURED BY PLASTDYNE PRODUCTS PTY LTD No376F-XP 84/55 OR IT'S EQUIVALENT AND SHALL POSSESS THE FOLLOWING PROPERTIES:
  - COLOUR: CODE Y14, GOLDEN YELLOW, IN ACCORDANCE WITH AS2700;
  - WING RIP TEST: MIN 200N x 200N WHEN TESTED IN ACCORDANCE WITH AS2001-2-10;
  - COATING ADHESION: MIN 70N/50mm WHEN TESTED IN ACCORDANCE WITH AS1441-5;
  - FLAMMABILITY: SELF EXTINGUISHING WHEN TESTED IN ACCORDANCE WITH AS1441-13;
  - PRODUCT WEIGHT: 670g/m<sup>2</sup>
  - COATING WEIGHT: 320g/m<sup>2</sup> (FACE)  
150g/m<sup>2</sup> (BACK).
- ALL CUT EDGES TO BE INSIDE AND ALL JOINTS TO BE STITCHED WITH HEAVY NYLON THREAD.
- STIFFENING BOARD, RETAINING POCKET AND STRAP TO HAVE PVC COATED NYLON BIAS BRAID BINDING.
- STIFFENING BOARD, MANUFACTURED IN ACCORDANCE WITH DRG No VM418-2, TO BE FITTED TO EACH COVER BEFORE DELIVERY.
- MANUFACTURER'S IDENTIFICATION, DATE OF MANUFACTURE AND RTA SUPPLY CATALOGUE NUMBER, SHALL BE LEGIBLY AND DURABLY MARKED ON THE INSIDE OF THE COVER.



Ø2.5 (12 GAUGE SWG)  
STEEL WIRE



DETAIL A  
GALVANISED STEEL HOOKS  
SCALE 1:1

LANTERN SIZE	A	B	C	D	SUPPLY CAT No
Ø200mm	775	215	236	75	18231212
Ø300mm	1070	310	325	100	18231190

H ISSUE 2000-02-02  
 J/I TC2567  
 PLAN REDRAWN  
 SVC/IH

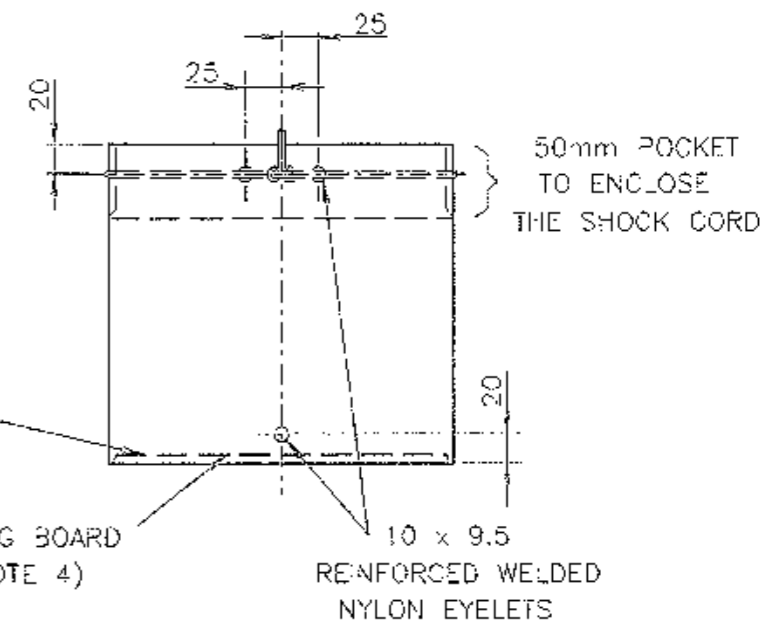
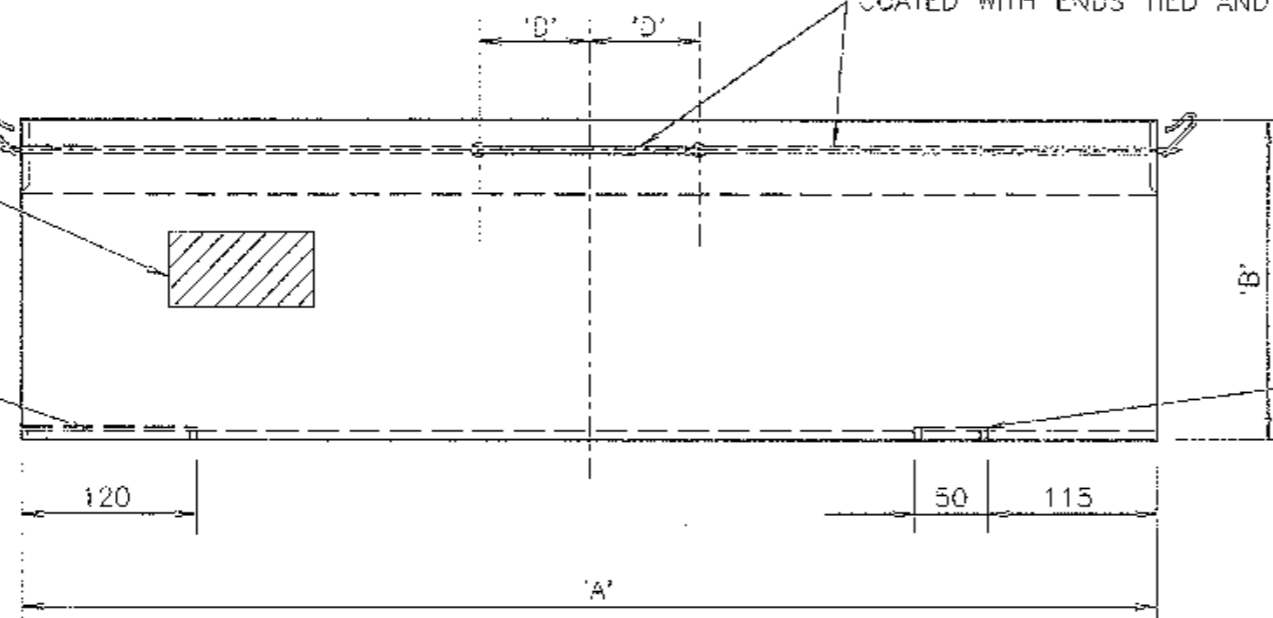
REFERENCE DRAWINGS		ROADS AND TRAFFIC AUTHORITY OF NSW		SCALE		APPROVED: 8-01-1986		
STIFFENING BOARD	VM418-2	TRAFFIC SIGNALS				F HULSCHER		
OUT OF SERVICE COVER (BLACK)	VM418-3	TRAFFIC SIGNAL OUT-OF-SERVICE LANTERN COVER (YELLOW)		SUPERSEDES: ISSUE G		MANAGER STANDARDS & QUALITY		
				DRAWN	GC	18-12-85	ISSUE	H
				CHECKED	AD	08-01-86		
				PASSED	RB	08-01-86	VM418-1	

TWO GALVANISED STEEL HOOKS  
(SEE DETAIL A)

15mm NYLON SHOCK CORD POLYETHYLENE  
COATED WITH ENDS TIED AND CRIMPED

SUGGESTED LOCATION  
FOR MARKING  
(ON THE INSIDE)  
REFER NOTE 5

SEE NOTE 3

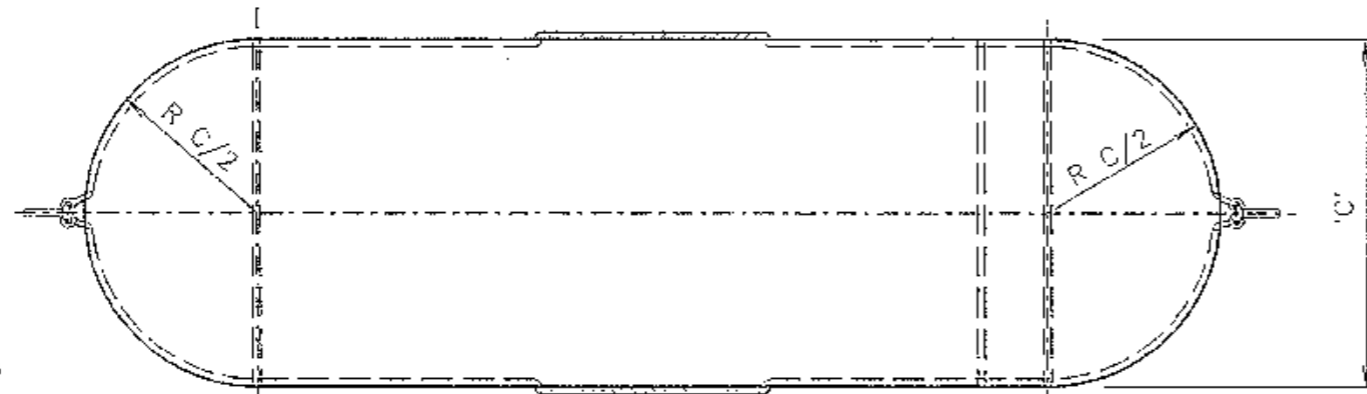


STIFFENING BOARD  
(SEE NOTE 4)

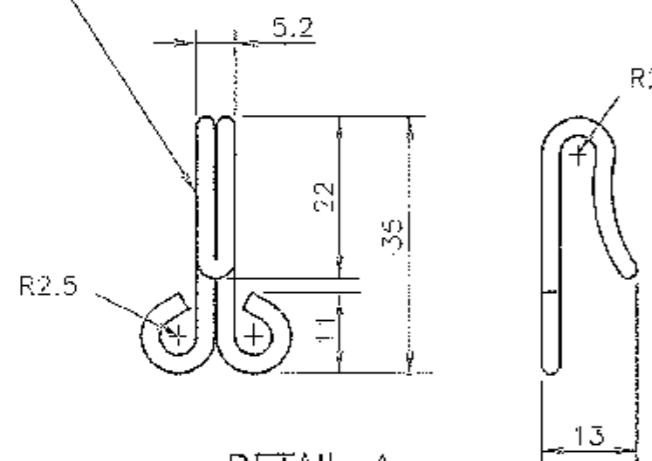
10 x 9.5  
REINFORCED WELDED  
NYLON EYELETS

NOTES

- THE MATERIAL FOR THE COVER SHALL BE 840 DENIER NYLON WEAVE COATED WITH PVC AS MANUFACTURED BY PLASTDYNE PRODUCTS PTY LTD No378F-XP 84/55 OR IT'S EQUIVALENT AND SHALL POSSESS THE FOLLOWING PROPERTIES:
  - COLOUR: BLACK;
  - WING RIP TEST: MIN 200N x 200N WHEN TESTED IN ACCORDANCE WITH AS2001-2-10;
  - COATING ADHESION: MIN 70N/50mm WHEN TESTED IN ACCORDANCE WITH AS1441-5;
  - FLAMMABILITY: SELF EXTINGUISHING WHEN TESTED IN ACCORDANCE WITH AS1441-13;
  - PRODUCT WEIGHT: 670g/m<sup>2</sup>
  - COATING WEIGHT: 320g/m<sup>2</sup> (FACE)  
150g/m<sup>2</sup> (BACK).
- ALL CUT EDGES TO BE INSIDE AND ALL JOINTS TO BE STITCHED WITH HEAVY NYLON THREAD.
- STIFFENING BOARD RETAINING POCKET AND STRAP TO HAVE PVC COATED NYLON BIAS BRAID BINDING.
- STIFFENING BOARD, MANUFACTURED IN ACCORDANCE WITH DRC No VM418-2, TO BE FITTED TO EACH COVER BEFORE DELIVERY.
- MANUFACTURER'S IDENTIFICATION, DATE OF MANUFACTURE AND RTA SUPPLY CATALOGUE NUMBER, SHALL BE LEGIBLY AND DURABLY MARKED ON THE INSIDE OF THE COVER.



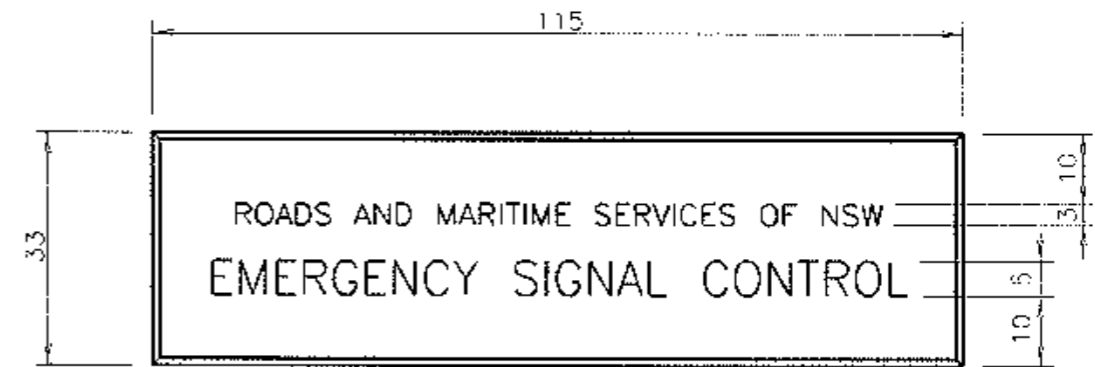
Ø2.6 (12 GAUGE SWG)  
STEEL WIRE



DETAIL A  
GALVANISED STEEL HOOKS  
SCALE 1:1

LANTERN SIZE	A	B	C	D	SUPPLY CAT No
Ø200mm	775	215	236	75	18231417
Ø300mm	1070	310	325	100	18231468

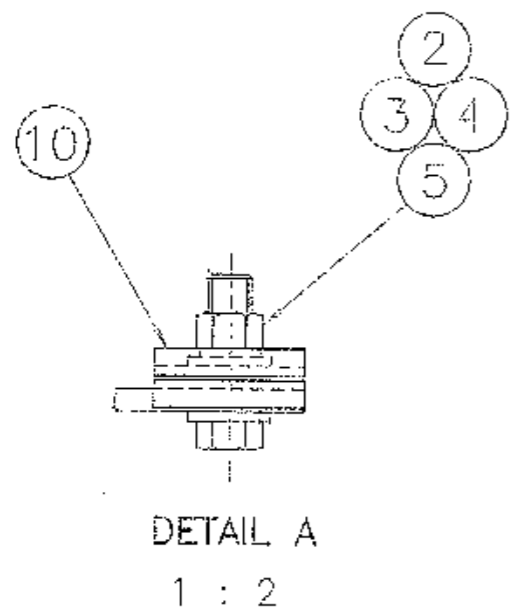
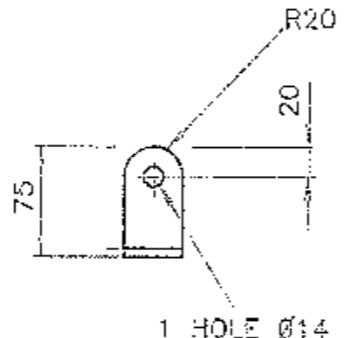
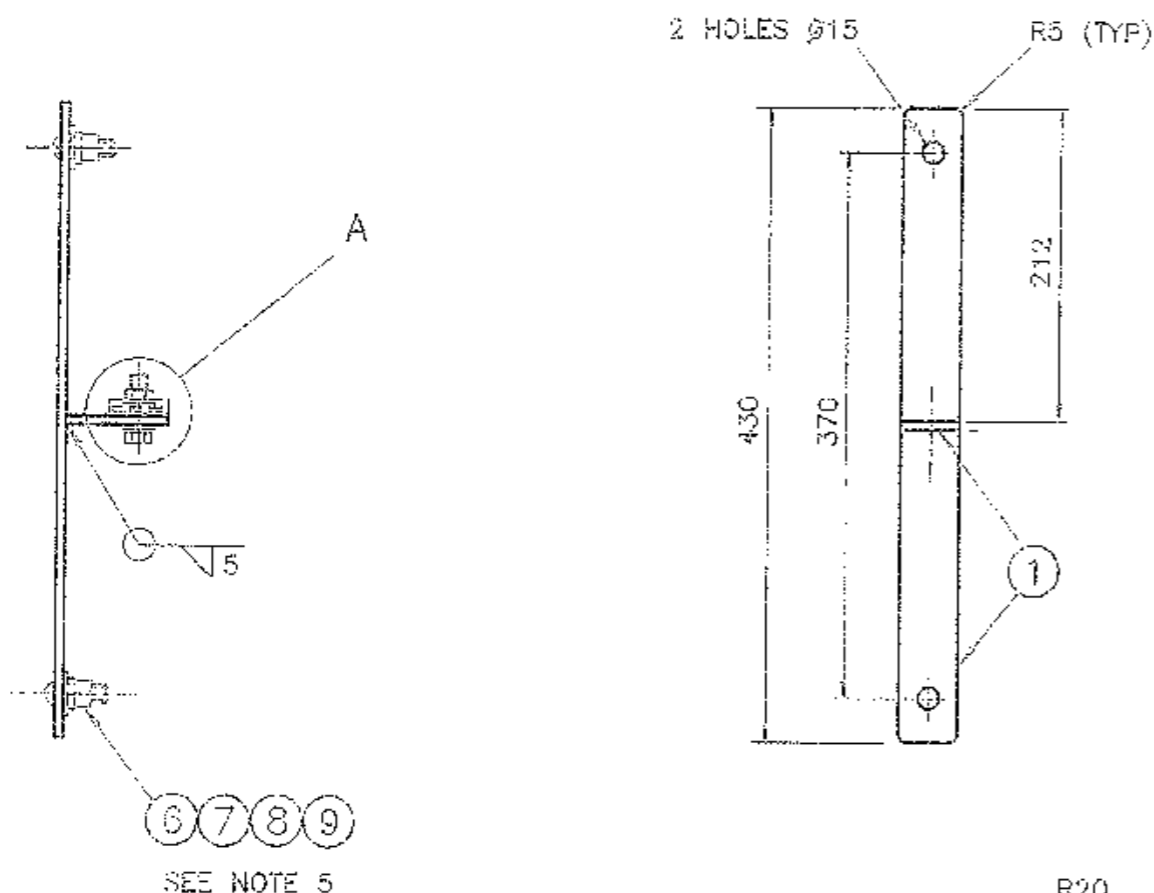
C ISSUE 2000-02-08 J/1 TC2687 PLAN REDRAWN PVC/JH	REFERENCE DRAWINGS		ROADS AND TRAFFIC AUTHORITY OF NSW		SCALE		APPROVED: 04-09-1986	
	STIFFENING BOARD	VM418-2	TRAFFIC SIGNALS				F HULSCHER	
	OUT OF SERVICE COVER (YELLOW)	VM418-1	TRAFFIC SIGNAL OUT-OF-SERVICE LANTERN COVER (BLACK)		SUPERSEDES: ISSUE B		MANAGER STANDARDS & QUALITY	
					DRAWN	DH	04-09-86	ISSUE
				CHECKED	RE	04-09-86		
				PASSED				VM418-3



### NOTES

1. MATERIAL: WHITE - RED - WHITE TRAFFOLYTE, 1.6mm.
2. ALL ENGRAVED LETTERING TO BE RED.
3. ALL EDGES TO BE CHAMFERED 1mm x 45°.

A ORIGINAL ISSUE B ISSUE - 13.3.12 RMS ON PLATE WAS RTA LC/BWT.			REFERENCE DRAWINGS	
ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS		SCALE 1 : 1	APPROVED: 1993-10-12 FR HULSCHER	
ENGRAVED PLATE FOR EMERGENCY SIGNAL CONTROL SWITCH		SUPERSEDES: VM620-2	WNGR STANDARDS & QUALITY	
		DRAWN: Y3 12-10-93	ISSUE: <input checked="" type="checkbox"/> E	
		CHECKED: BWT		
		PASSED: BW TAYLOR 1993-10-12	VM620-19	

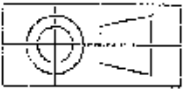


**NOTES**

1. TOLERANCE OF ALL DIMENSIONS UNLESS OTHERWISE INDICATED:
  - UP TO AND INCLUDING 100mm TO BE  $\pm 0.5$ mm.
  - OVER 100mm TO BE  $\pm 1$ mm.
  - ANGULAR TOLERANCE  $\pm 1^\circ$ .
 TOLERANCE OF THE FLAT STEEL OF BRACKET TO COMPLY WITH AS 3679.
2. ALL BURRS, SHARP EDGES AND WELDING SCALE TO BE REMOVED BEFORE GALVANISING.
3. ALL WELDS TO BE CONTINUOUS FILLET IN ACCORDANCE WITH AS 1554 PART 1.
4. BRACKET TO BE HOT DIP GALVANISED IN ACCORDANCE WITH AS 1650.
5. ITEMS 2 TO 10 TO BE SUPPLIED FULLY ASSEMBLED AS SHOWN.
6. A PAIR OF LOCK WASHERS (ITEM 10) SHALL BE FITTED TO THE LUG ASSEMBLY (DIMPLE TO DIMPLE).  
 LOCK WASHERS ARE TO BE MANUFACTURED TO RTA PLAN VM200-24 AND MAY BE OBTAINED FROM BOB PANICH CONSULTANCY (RYDE) OR ALDRIDGE TRAFFIC SYSTEMS PTY LTD (RHODES).

ITEM	DESCRIPTION	MATERIAL	FINISH	QTY
10	LOCK WASHER REFER PLAN VM200-24	STAINLESS STEEL	NATURAL	2
9	HEX NUT M10 TO AS 1112	MILD STEEL	GALV TO AS 1214	2
8	SPRING WASHER M10 TO AS 1968	SPRING STEEL	GALV TO AS 1650	2
7	FLAT WASHER M10 LARGE SERIES TO AS 1237	MILD STEEL	GALV TO AS 1650	2
6	CUP HEAD SQUARE NECK BOLT M10 X 30 TO AS 1390	MILD STEEL	GALV TO AS 1650	2
5	HEX NUT M12 TO AS 1112	MILD STEEL	GALV TO AS 1214	1
4	SPRING WASHER M12 TO AS 1968	SPRING STEEL	GALV TO AS 1650	1
3	FLAT WASHER M12 TO AS 1237	MILD STEEL	GALV TO AS 1650	2
2	HEX HD SCREW M12 x 40 TO AS 1111	MILD STEEL	GALV TO AS 1214	1
1	BRACKET 40 x 6 FLAT TO AS 3679	MILD STEEL	GALV TO AS 1650	TO SUIT

DIMENSIONS ARE IN MILLIMETRES



A ORIGINAL ISSUE B ISSUE 28-10-98 JI TC2961 ITEM 10 & NOTE 6 ADDED. RVC	SUPPLY CAT NO 35026896	REFERENCE DRAWINGS BKT SINGLE LARGE VT006-52 BKT DOUBLE SMALL VT006-53 BKT DOUBLE MEDIUM VT006-54 BKT DOUBLE LARGE VT006-55 LOCK WASHER VM200-24	ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS <b>BRACKET SINGLE MOUNTING (SMALL)          FOR 450mm HIGH SPECIAL STOP SIGNS</b>	SCALE 1 : 5	APPROVED: 15-09-98 <b>T YUNG</b> MGR STANDARDS & QUALITY
		SUPERSEDES - DRAWN RVC 31-08-98 CHECKED BWT 10-09-95 PASSED BRIAN TAYLOR 10-09-98	ISSUE <input checked="" type="checkbox"/> 5		

**VT006-51**

### NOTES

1. TOLERANCE OF ALL DIMENSIONS UNLESS OTHERWISE INDICATED:

- UP TO AND INCLUDING 100mm TO BE  $\pm 0.5\text{mm}$ .
- OVER 100mm TO BE  $\pm 1\text{mm}$ .
- ANGULAR TOLERANCE  $\pm 1^\circ$ .

TOLERANCE OF THE FLAT STEEL OF BRACKET TO COMPLY WITH AS 3679.

2. ALL BURRS, SHARP EDGES AND WELDING SCALE TO BE REMOVED BEFORE GALVANISING.

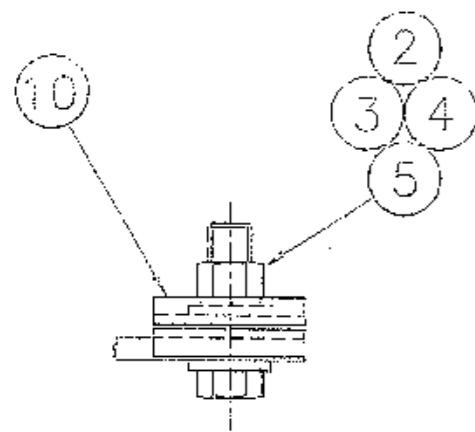
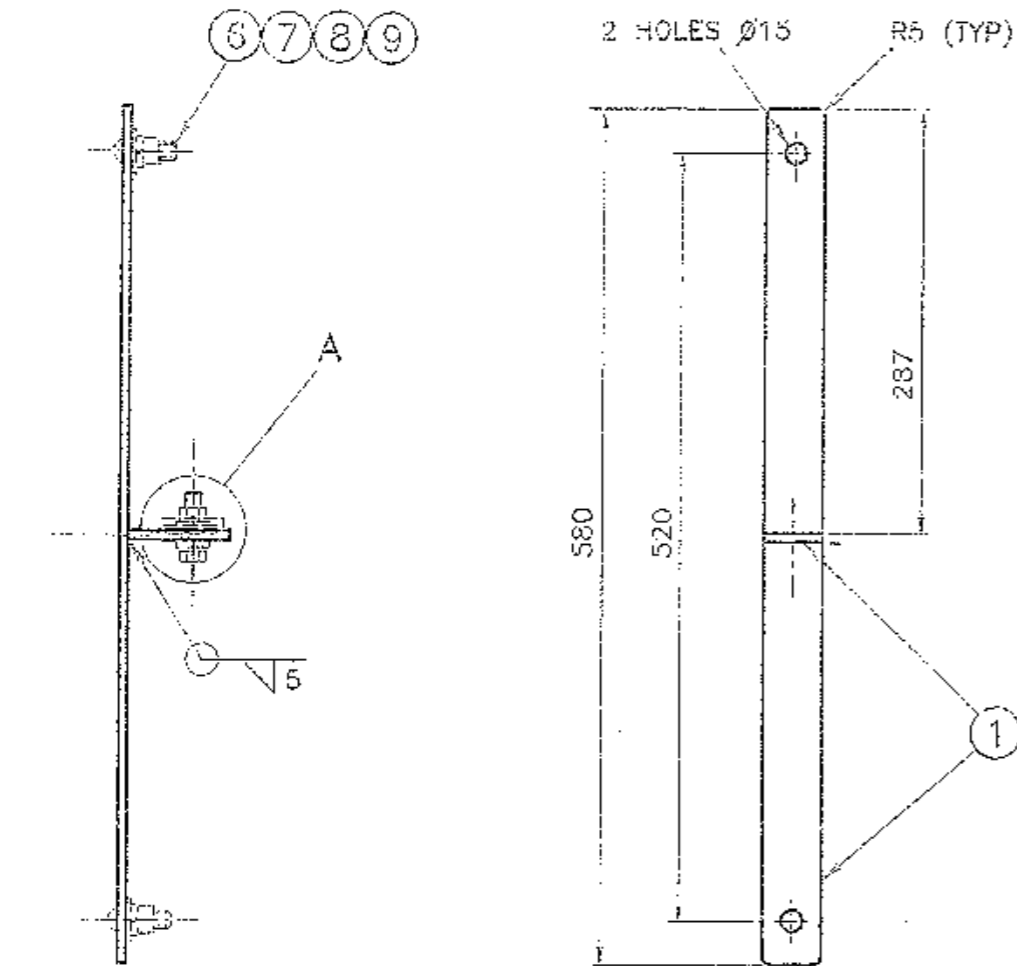
3. ALL WELDS TO BE CONTINUOUS FILLET IN ACCORDANCE WITH AS 1554 PART 1.

4. BRACKET TO BE HOT DIP GALVANISED IN ACCORDANCE WITH AS 1650.

5. ITEMS 2 TO 10 TO BE SUPPLIED FULLY ASSEMBLED AS SHOWN.

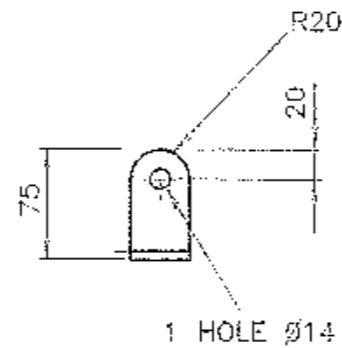
6. A PAIR OF LOCK WASHERS (ITEM 10) SHALL BE FITTED TO THE LUG ASSEMBLY (DIMPLE TO DIMPLE).

LOCK WASHERS ARE TO BE MANUFACTURED TO RTA PLAN VM200-24 AND MAY BE OBTAINED FROM BOB PANICH CONSULTANCY (RYDE) OR ALDRIDGE TRAFFIC SYSTEMS PTY LTD (RHODES).

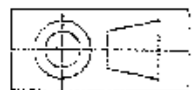


DETAIL A

1 : 2



1 HOLE  $\varnothing 14$



DIMENSIONS ARE IN MILLIMETRES

ITEM	DESCRIPTION	MATERIAL	FINISH	QTY
10	LOCK WASHER REFER PLAN VM200-24	STAINLESS STEEL	NATURAL	2
9	HEX NUT M10 TO AS 1112	MILD STEEL	GALV TO AS 1214	2
8	SPRING WASHER M10 TO AS 1968	SPRING STEEL	GALV TO AS 1650	2
7	FLAT WASHER M10 LARGE SERIES TO AS 1237	MILD STEEL	GALV TO AS 1650	2
6	CUP HEAD SQUARE NECK BOLT M10 X 30 TO AS 1390	MILD STEEL	GALV TO AS 1650	2
5	HEX NUT M12 TO AS 1112	MILD STEEL	GALV TO AS 1214	1
4	SPRING WASHER M12 TO AS 1968	SPRING STEEL	GALV TO AS 1650	1
3	FLAT WASHER M12 TO AS 1237	MILD STEEL	GALV TO AS 1650	2
2	HEX HD SCREW M12 x 40 TO AS 1111	MILD STEEL	GALV TO AS 1214	1
1	BRACKET 40 x 6 FLAT TO AS 3679	MILD STEEL	GALV TO AS 1650	TO SUIT

A ORIGINAL ISSUE B ISSUE 28-10-98 JI TO2961 ITEM 10 & NOTE 6 ADDED. RVC	SUPPLY CAT NO 35026897	REFERENCE DRAWINGS BKT SINGLE SMALL VT006-51 BKT DOUBLE SMALL VT006-53 BKT DOUBLE MEDIUM VT006-54 BKT DOUBLE LARGE VT006-55 LOCK WASHER VM200-24	ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS	SCALE 1 : 5	APPROVED: 15-09-98 T YUNG MGR STANDARDS & QUALITY
		BRACKET SINGLE MOUNTING (LARGE) FOR 600mm - 900mm HIGH SIGNS	SUPERSEDES: - DRAWN RVC 02-09-98 CHECKED BWT 10-09-98 PASSED BRIAN TAYLOR 10-09-98	ISSUE <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4	VT006-52

R6 (TYP)

3 HOLES Ø15

NOTES

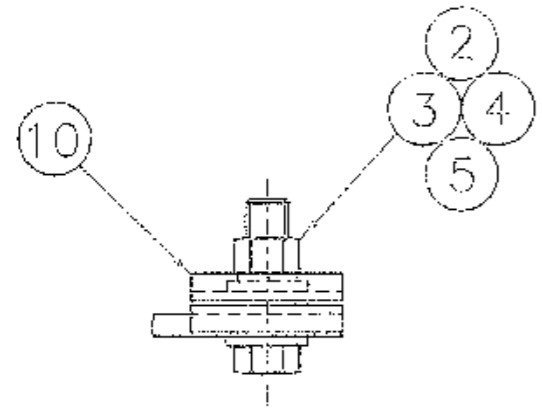
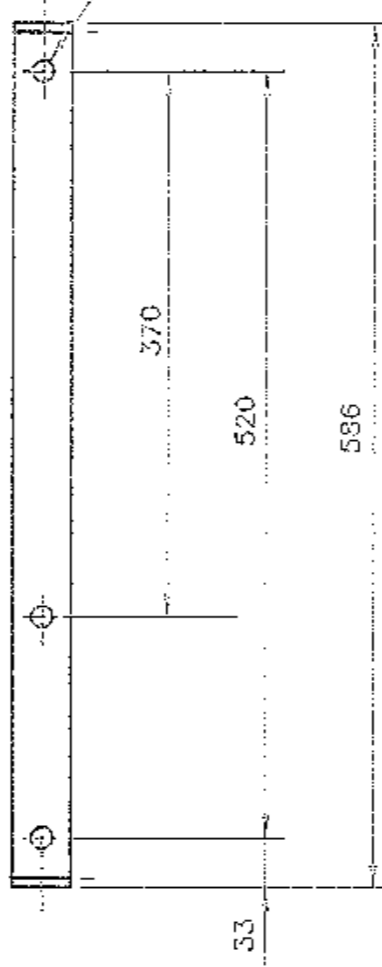
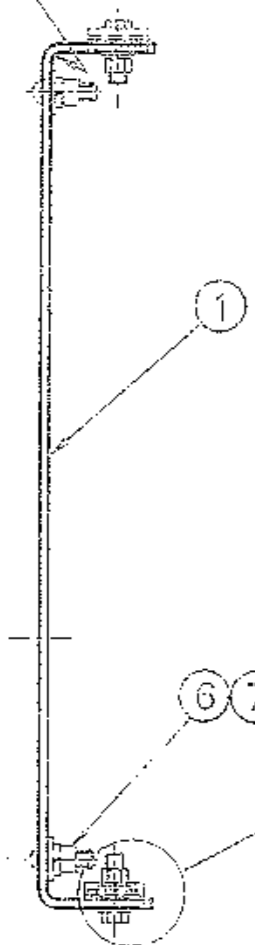
1. TOLERANCE OF ALL DIMENSIONS UNLESS OTHERWISE INDICATED:

- UP TO AND INCLUDING 100mm TO BE ±0.5mm.
- OVER 100mm TO BE ±1mm.
- ANGULAR TOLERANCE ±1°.

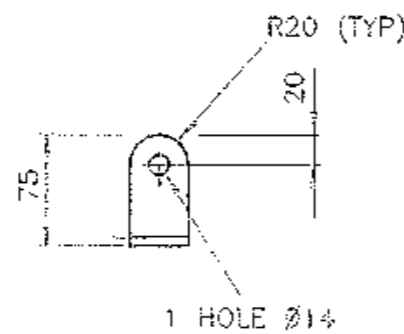
TOLERANCE OF THE FLAT STEEL OF BRACKET TO COMPLY WITH AS 3679.

2. ALL BURRS, SHARP EDGES AND WELDING SCALE TO BE REMOVED BEFORE GALVANISING.
3. ALL WELDS TO BE CONTINUOUS FILLET IN ACCORDANCE WITH AS 1554 PART 1.
4. BRACKET TO BE HOT DIP GALVANISED IN ACCORDANCE WITH AS 1650.
5. ITEMS 2 TO 10 TO BE SUPPLIED FULLY ASSEMBLED AS SHOWN.
6. A PAIR OF LOCK WASHERS (ITEM 10) SHALL BE FITTED TO EACH LUG ASSEMBLY (DIMPLE TO DIMPLE).

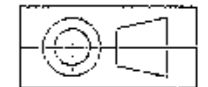
LOCK WASHERS ARE TO BE MANUFACTURED TO RTA PLAN VM200-24 AND MAY BE OBTAINED FROM BOB PANICH CONSULTANCY (RYDE) OR ALDRIDGE TRAFFIC SYSTEMS PTY LTD (RHODES).



DETAIL A  
1 : 2



DIMENSIONS ARE IN MILLIMETRES



ITEM	DESCRIPTION	MATERIAL	FINISH	QTY
10	LOCK WASHER REFER PLAN VM200-24	STAINLESS STEEL	NATURAL	4
9	HEX NUT M10 TO AS 1112	MILD STEEL	GALV TO AS 1214	2
8	SPRING WASHER M10 TO AS 1968	SPRING STEEL	GALV TO AS 1650	2
7	FLAT WASHER M10 LARGE SERIES TO AS 1237	MILD STEEL	GALV TO AS 1650	2
6	CUP HEAD SQUARE NECK BOLT M10 X 30 TO AS 1390	MILD STEEL	GALV TO AS 1650	2
5	HEX NUT M12 TO AS 1112	MILD STEEL	GALV TO AS 1214	2
4	SPRING WASHER M12 TO AS 1968	SPRING STEEL	GALV TO AS 1650	2
3	FLAT WASHER M12 TO AS 1237	MILD STEEL	GALV TO AS 1650	4
2	HEX HD SCREW M12 X 40 TO AS 1111	MILD STEEL	GALV TO AS 1214	2
1	BRACKET 40 X 6 FLAT TO AS 3679	MILD STEEL	GALV TO AS 1650	TO SUIT

A ORIGINAL ISSUE B ISSUE 28-10-98 C TC2961 ITEM 10 & NOTE 6 ADDED RVC	SUPPLY CAT NO 35026704	REFERENCE DRAWINGS BKT SINGLE SMALL VT006-51 BKT SINGLE LARGE VT005-52 BKT DOUBLE MEDIUM VT006-54 BKT DOUBLE LARGE VT006-55 LOCK WASHER VM200-24	ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS	SCALE 1 : 5 UNLESS SHOWN OTHERWISE SUPERSEDES: - DRAWN: RVC 02-09-98 CHECKED: BWT 10-09-98 PASSED: BRIAN TAYLOR 10-09-98	APPROVED: 15-09-98 T YUNG MGR STANDARDS & QUALITY ISSUE: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
		BRACKET DOUBLE MOUNTING (SMALL) FOR SMALL SIGNS TO MATCH PEDESTRIAN LANTERN MOUNTING LUG CENTRES OF 580mm	VT006-53		

NOTES

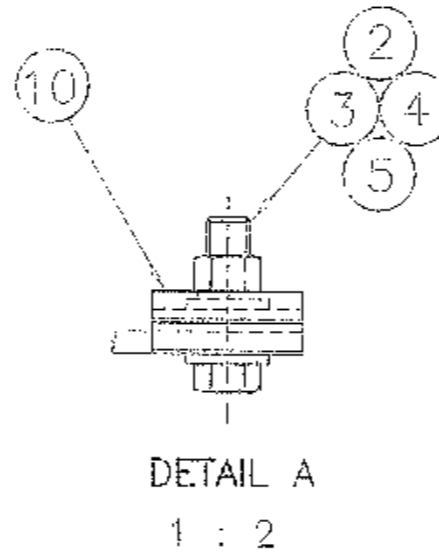
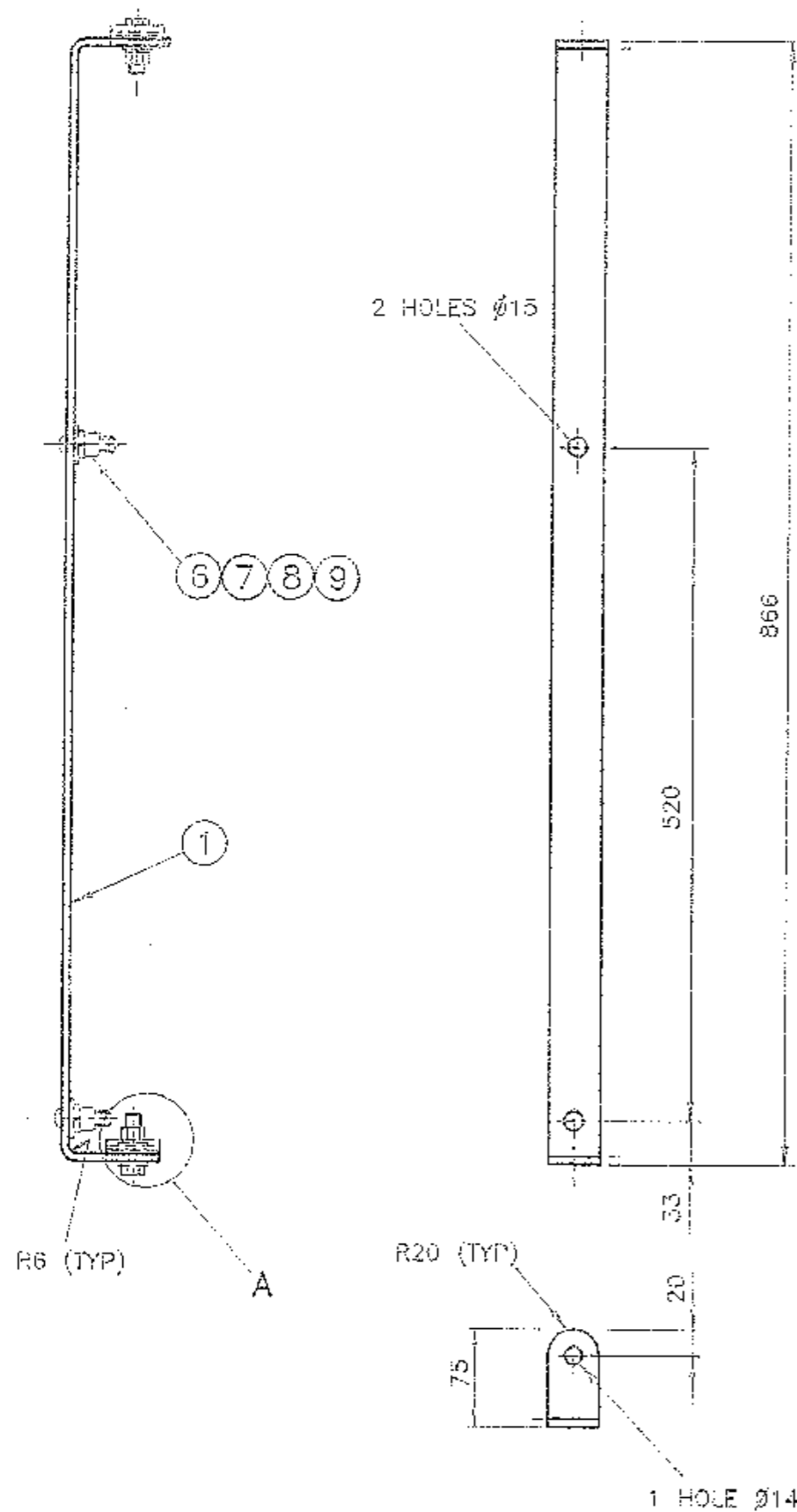
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- UP TO AND INCLUDING 100mm TO BE ±0.5mm.
- OVER 100mm TO BE ±1mm.
- ANGULAR TOLERANCE ±1°.

TOLERANCE OF THE FLAT STEEL OF BRACKET TO COMPLY WITH AS 3679.

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3. ALL WELDS TO BE CONTINUOUS FILLET IN ACCORDANCE WITH AS 1554 PART 1.
4. BRACKET TO BE HOT DIP GALVANISED IN ACCORDANCE WITH AS 1650.
5. ITEMS 2 TO 10 TO BE SUPPLIED FULLY ASSEMBLED AS SHOWN.
6. A PAIR OF LOCK WASHERS (ITEM 10) SHALL BE FITTED TO EACH LUG ASSEMBLY (DIMPLE TO DIMPLE).

LOCK WASHERS ARE TO BE MANUFACTURED TO RTA PLAN VM200-24 AND MAY BE OBTAINED FROM BOB PANICH CONSULTANCY (RYDE) OR ALDRIDGE TRAFFIC SYSTEMS PTY LTD (RHODES).



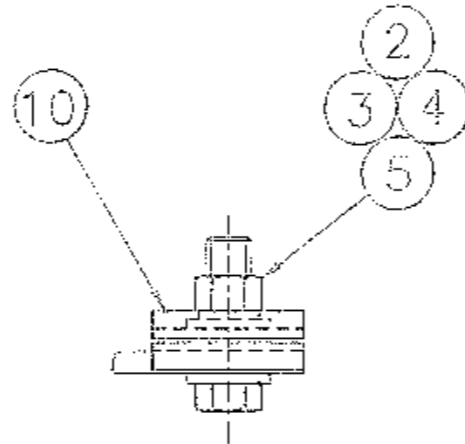
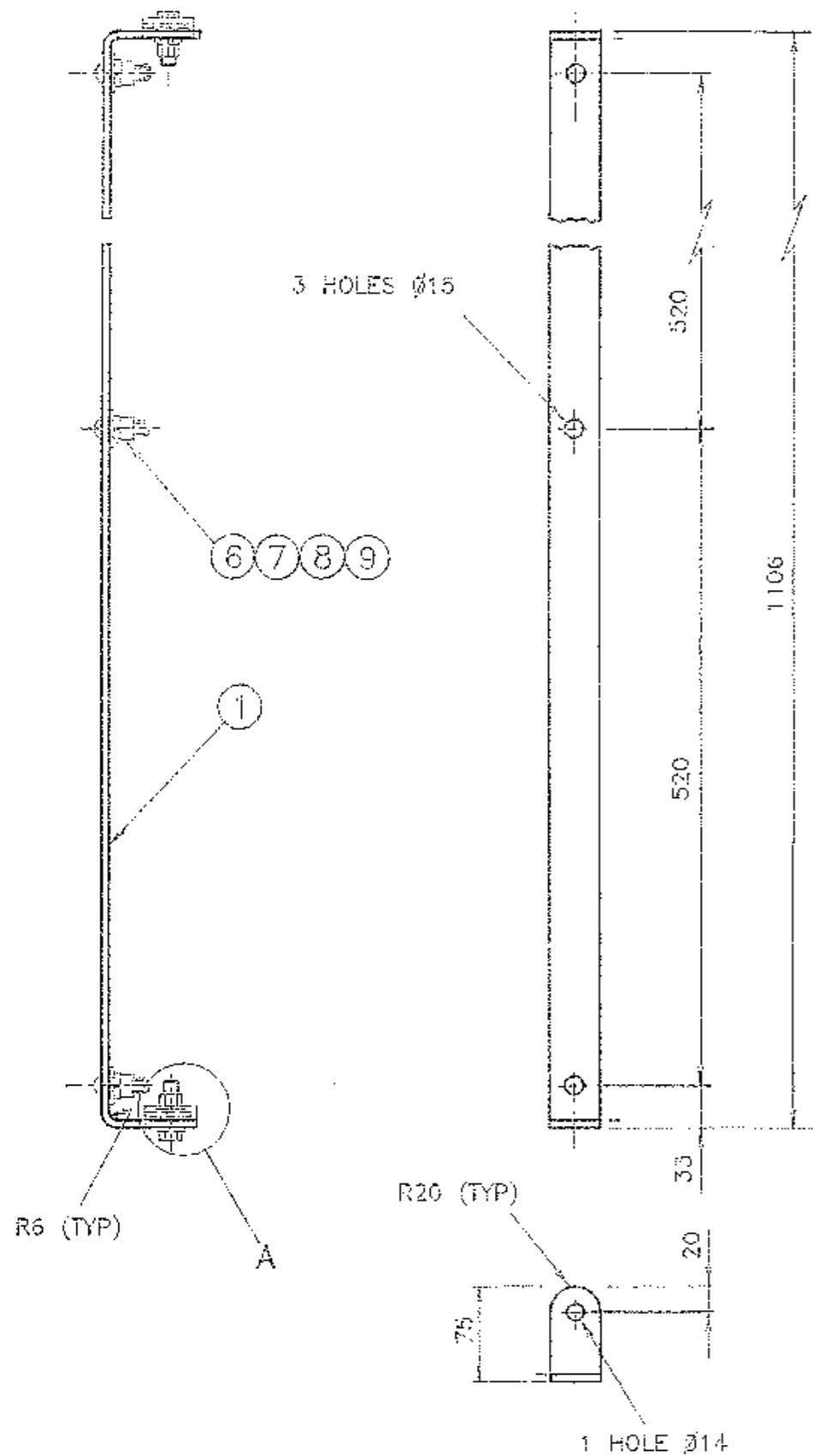
DIMENSIONS ARE IN MILLIMETRES



ITEM	DESCRIPTION	MATERIAL	FINISH	QTY
10	LOCK WASHER REFER PLAN VM200-24	STAINLESS STEEL	NATURAL	4
9	HEX NUT M10 TO AS 1112	MILD STEEL	GALV TO AS 1214	2
8	SPRING WASHER M10 TO AS 1968	SPRING STEEL	GALV TO AS 1650	2
7	FLAT WASHER M10 LARGE SERIES TO AS 1237	MILD STEEL	GALV TO AS 1650	2
6	CUP HEAD SQUARE NECK BOLT M10 X 30 TO AS 1390	MILD STEEL	GALV TO AS 1650	2
5	HEX NUT M12 TO AS 1112	MILD STEEL	GALV TO AS 1214	2
4	SPRING WASHER M12 TO AS 1968	SPRING STEEL	GALV TO AS 1650	2
3	FLAT WASHER M12 TO AS 1237	MILD STEEL	GALV TO AS 1650	4
2	HEX HD SCREW M12 X 40 TO AS 1111	MILD STEEL	GALV TO AS 1214	2
1	BRACKET 40 x 8 FLAT TO AS 3679	MILD STEEL	GALV TO AS 1650	TO SUIT

A ORIGINAL ISSUE B ISSUE 26-10-98 JI TC22/61 ITEM 10 & NOTE 6 ADDED. RVC	SUPPLY CAT NO 35026705	REFERENCE DRAWINGS BKT SINGLE SMALL VT006-51 BKT SINGLE LARGE VT006-52 BKT DOUBLE SMALL VT006-53 BKT DOUBLE LARGE VT006-55 LOCK WASHER VM200-24	ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS BRACKET DOUBLE MOUNTING (MEDIUM) FOR 900mm HIGH NRT SIGNS TO MATCH THE 3 ASPECT 200mm VEHICLE LANTERN MOUNTING LUG CENTRES OF 860mm	SCALE 1 : 5 UNLESS SHOWN OTHERWISE SUPERSEDES: - DRAWN RVC 03-09-98 CHECKED BWT 10-09-98 PASSED BRIAN TAYLOR 10-09-98	APPROVED: 15-09-98 T YUNG MGR STANDARDS & QUALITY ISSUE A B VT006-54
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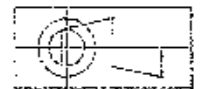


DETAIL A  
1 : 2

NOTES

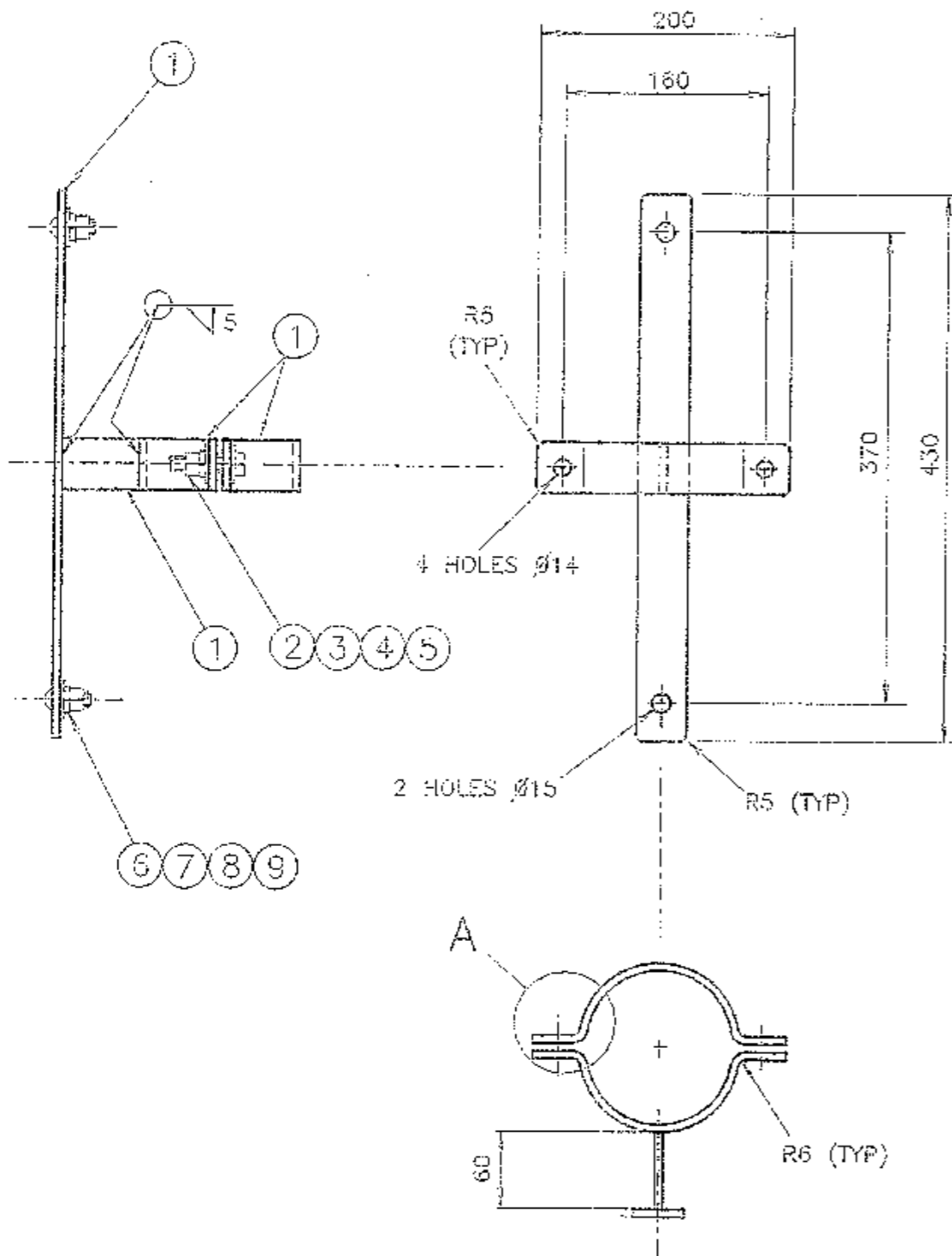
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  - UP TO AND INCLUDING 100mm TO BE  $\pm 0.5$ mm.
  - OVER 100mm TO BE  $\pm 1$ mm.
  - ANGULAR TOLERANCE  $\pm 1^\circ$ .
- TOLERANCE OF THE FLAT STEEL OF BRACKET TO COMPLY WITH AS 3679.
2. ALL BURRS, SHARP EDGES AND WELDING SCALE TO BE REMOVED BEFORE GALVANISING.
3. ALL WELDS TO BE CONTINUOUS FILLET IN ACCORDANCE WITH AS 1554 PART 1.
4. BRACKET TO BE HOT DIP GALVANISED IN ACCORDANCE WITH AS 1650.
5. ITEMS 2 TO 10 TO BE SUPPLIED FULLY ASSEMBLED AS SHOWN.
6. A PAIR OF LOCK WASHERS (ITEM 10) SHALL BE FITTED TO EACH LUG ASSEMBLY (DIMPLE TO DIMPLE).  
 LOCK WASHERS ARE TO BE MANUFACTURED TO RTA PLAN VM200-24 AND MAY BE OBTAINED FROM BOB PANICH CONSULTANCY (RYDE) OR ALDRIDGE TRAFFIC SYSTEMS PTY LTD (RHODES).

DIMENSIONS ARE IN MILLIMETRES



ITEM	DESCRIPTION	MATERIAL	FINISH	QTY
10	LOCK WASHER REFER PLAN VM200-24	STAINLESS STEEL	NATURAL	4
9	HEX NUT M10 TO AS 1112	MILD STEEL	GALV TO AS 1214	2
8	SPRING WASHER M10 TO AS 1968	SPRING STEEL	GALV TO AS 1650	2
7	FLAT WASHER M10 LARGE SERIES TO AS 1237	MILD STEEL	GALV TO AS 1650	2
6	CUP HEAD SQUARE NECK BOLT M10 X 30 TO AS 1390	MILD STEEL	GALV TO AS 1650	2
5	HEX NUT M12 TO AS 1112	MILD STEEL	GALV TO AS 1214	2
4	SPRING WASHER M12 TO AS 1968	SPRING STEEL	GALV TO AS 1650	2
3	FLAT WASHER M12 TO AS 1237	MILD STEEL	GALV TO AS 1650	4
2	HEX HD SCREW M12 X 40 TO AS 1111	MILD STEEL	GALV TO AS 1214	2
1	BRACKET 40 X 6 FLAT TO AS 3679	MILD STEEL	GALV TO AS 1650	TO SUIT

A ORIGINAL ISSUE B ISSUE 28-10-88 JI TR-2061 ITEM 10 & NOTE 6 ADDED RVC	SUPPLY CAT NO <b>35026706</b>	REFERENCE DRAWINGS BKT SINGLE SMALL VT006-51 BKT SINGLE LARGE VT006-52 BKT DOUBLE SMALL VT006-53 BKT DOUBLE MEDIUM VT006-54 LOCK WASHER VM200-24	ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS <b>BRACKET DOUBLE MOUNTING (LARGE)          FOR LARGE NRT SIGNS TO MATCH          THE 4 ASPECT 200mm VEHICLE LANTERN          MOUNTING LUG CENTRES OF 1100mm</b>	SCALE 1 : 5 UNLESS SHOWN OTHERWISE SUPERSEDES: - DRAWN RVC 03-09-98 CHECKED BWT 10-09-98 PASSED BRIAN TAYLOR 10-09-98	APPROVED: 13-09-98 T YUNG MGR STANDARDS & QUALITY ISSUE <input checked="" type="checkbox"/> A <input type="checkbox"/> B
					VT006-55



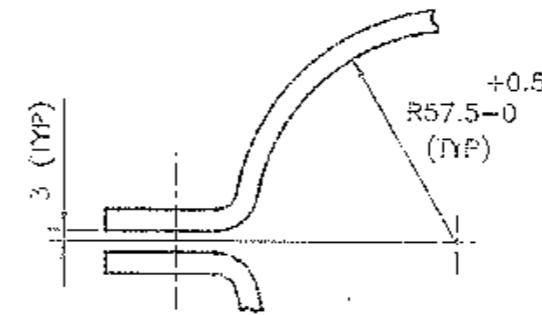
## NOTES

1. TOLERANCE OF ALL DIMENSIONS UNLESS OTHERWISE INDICATED:

- UP TO AND INCLUDING 100mm TO BE  $\pm 0.5$ mm.
- OVER 100mm TO BE  $\pm 1$ mm.
- ANGULAR TOLERANCE  $\pm 1^\circ$ .

TOLERANCE OF THE FLAT STEEL OF BRACKET TO COMPLY WITH AS 3679.

2. ALL BURRS, SHARP EDGES & WELDING SCALE TO BE REMOVED BEFORE GALVANISING.
3. ALL WELDS TO BE CONTINUOUS FILLET IN ACCORDANCE WITH AS 1554 PART 1.
4. BRACKET TO BE HOT DIP GALVANISED IN ACCORDANCE WITH AS 1650.
5. ITEMS 2 TO 9 TO BE SUPPLIED FULLY ASSEMBLED AS SHOWN.

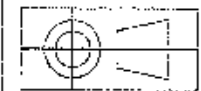


DETAIL A

2 : 1

ITEM	DESCRIPTION	MATERIAL	FINISH	QTY
9	HEX NUT M10 TO AS 1112	MILD STEEL	GALV TO AS 1214	2
8	SPRING WASHER M10 TO AS 1968	SPRING STEEL	GALV TO AS 1650	2
7	FLAT WASHER M10 LARGE SERIES TO AS 1237	MILD STEEL	GALV TO AS 1650	2
6	CUP HEAD SQUARE NECK BOLT M10 X 30 TO AS 1390	MILD STEEL	GALV TO AS 1650	2
5	HEX NUT M12 TO AS 1112	MILD STEEL	GALV TO AS 1214	2
4	SPRING WASHER M12 TO AS 1968	SPRING STEEL	GALV TO AS 1650	2
3	FLAT WASHER M12 TO AS 1237	MILD STEEL	GALV TO AS 1650	4
2	HEX HD SCREW M12 x 50 TO AS 1111	MILD STEEL	GALV TO AS 1214	2
1	BRACKET 40 x 6 FLAT TO AS 3679	MILD STEEL	GALV TO AS 1650	TO SUIT

DIMENSIONS ARE IN MILLIMETRES



A ORIGINAL ISSUE

SUPPLY CAT NO  
35025309

REFERENCE DRAWINGS

BKT VERTICAL LARGE	VT006-57
BKT HORIZONTAL	VT006-58

ROADS AND TRAFFIC AUTHORITY OF NSW  
TRAFFIC SIGNALS

BRACKET VERTICAL SADDLE (SMALL)  
MOUNTING TO A TYPE 2 SIGNAL POST  
FOR 450mm HIGH SPECIAL STOP SIGN

SCALE  
1 : 5  
OR AS SHOWN

SUPERSEDES: -

DRAWN RVC 07-09-98

CHECKED *B. Taylor* 10.9.98

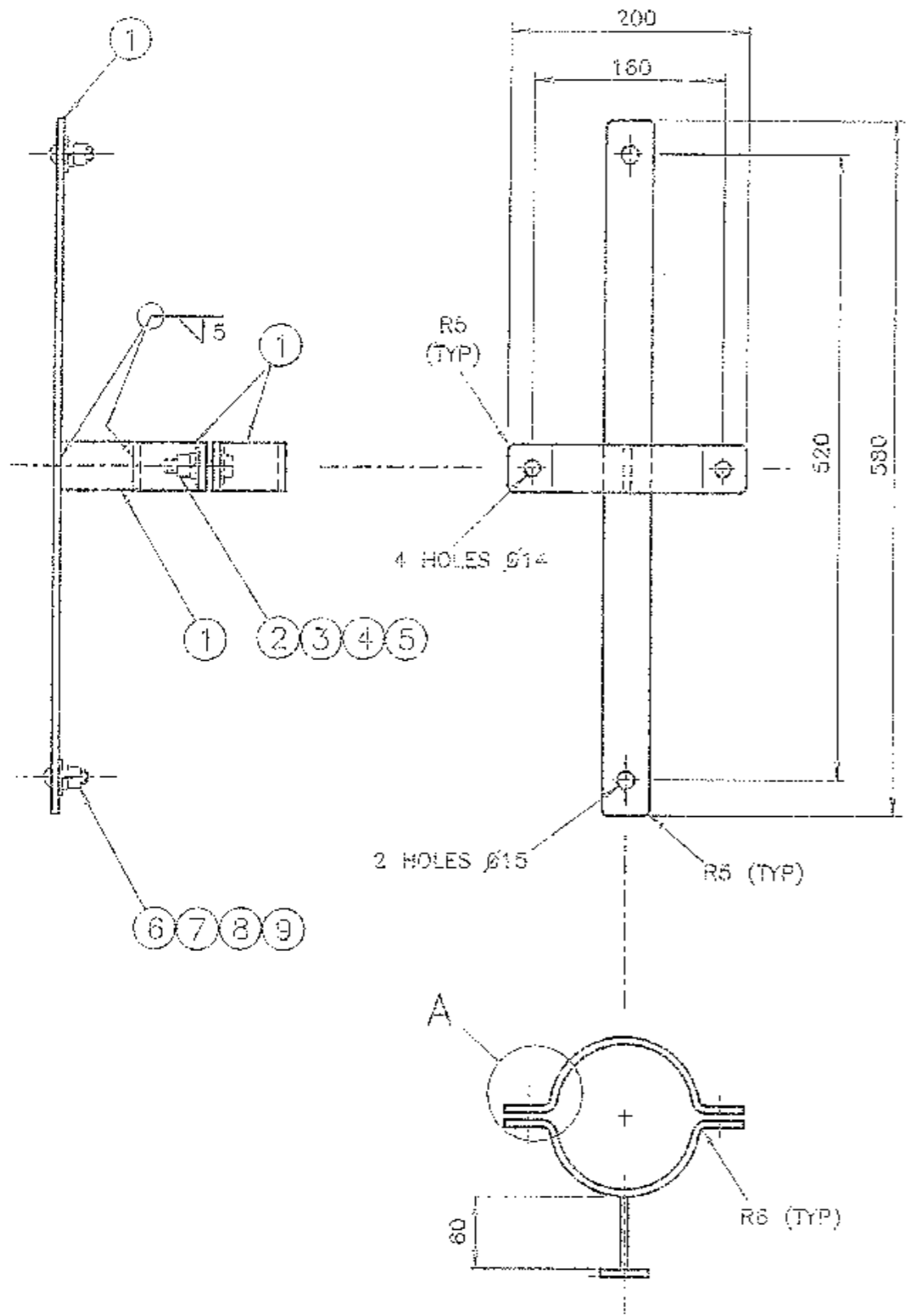
PASSED *B. Taylor* 10.9.98

APPROVED:

*[Signature]*  
MGR STANDARDS & QUALITY

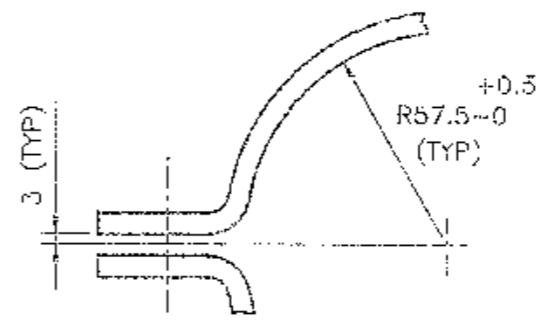
ISSUE A

VT006-56



### NOTES

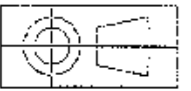
1. TOLERANCE OF ALL DIMENSIONS UNLESS OTHERWISE INDICATED:
  - UP TO AND INCLUDING 100mm TO BE  $\pm 0.5$ mm.
  - OVER 100mm TO BE  $\pm 1$ mm.
  - ANGULAR TOLERANCE  $\pm 1^\circ$ .
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3. ALL WELDS TO BE CONTINUOUS FILLET IN ACCORDANCE WITH AS 1554 PART 1.
4. BRACKET TO BE HOT DIP GALVANISED IN ACCORDANCE WITH AS 1650.
5. ITEMS 2 TO 9 TO BE SUPPLIED FULLY ASSEMBLED AS SHOWN.



DETAIL A  
2 : 1

ITEM	DESCRIPTION	MATERIAL	FINISH	QTY
9	HEX NUT M10 TO AS 1112	MILD STEEL	GALV TO AS 1214	2
8	SPRING WASHER M10 TO AS 1968	SPRING STEEL	GALV TO AS 1650	2
7	FLAT WASHER M10 LARGE SERIES TO AS 1237	MILD STEEL	GALV TO AS 1650	2
6	CUP HEAD SQUARE NECK BOLT M10 X 30 TO AS 1390	MILD STEEL	GALV TO AS 1650	2
5	HEX NUT M12 TO AS 1112	MILD STEEL	GALV TO AS 1214	2
4	SPRING WASHER M12 TO AS 1968	SPRING STEEL	GALV TO AS 1650	2
3	FLAT WASHER M12 TO AS 1237	MILD STEEL	GALV TO AS 1650	4
2	HEX HD SCREW M12 x 50 TO AS 1111	MILD STEEL	GALV TO AS 1214	2
1	BRACKET 40 x 5 FLAT TO AS 3679	MILD STEEL	GALV TO AS 1650	TO SUIT

DIMENSIONS ARE IN MILLIMETRES



A ORIGINAL ISSUE

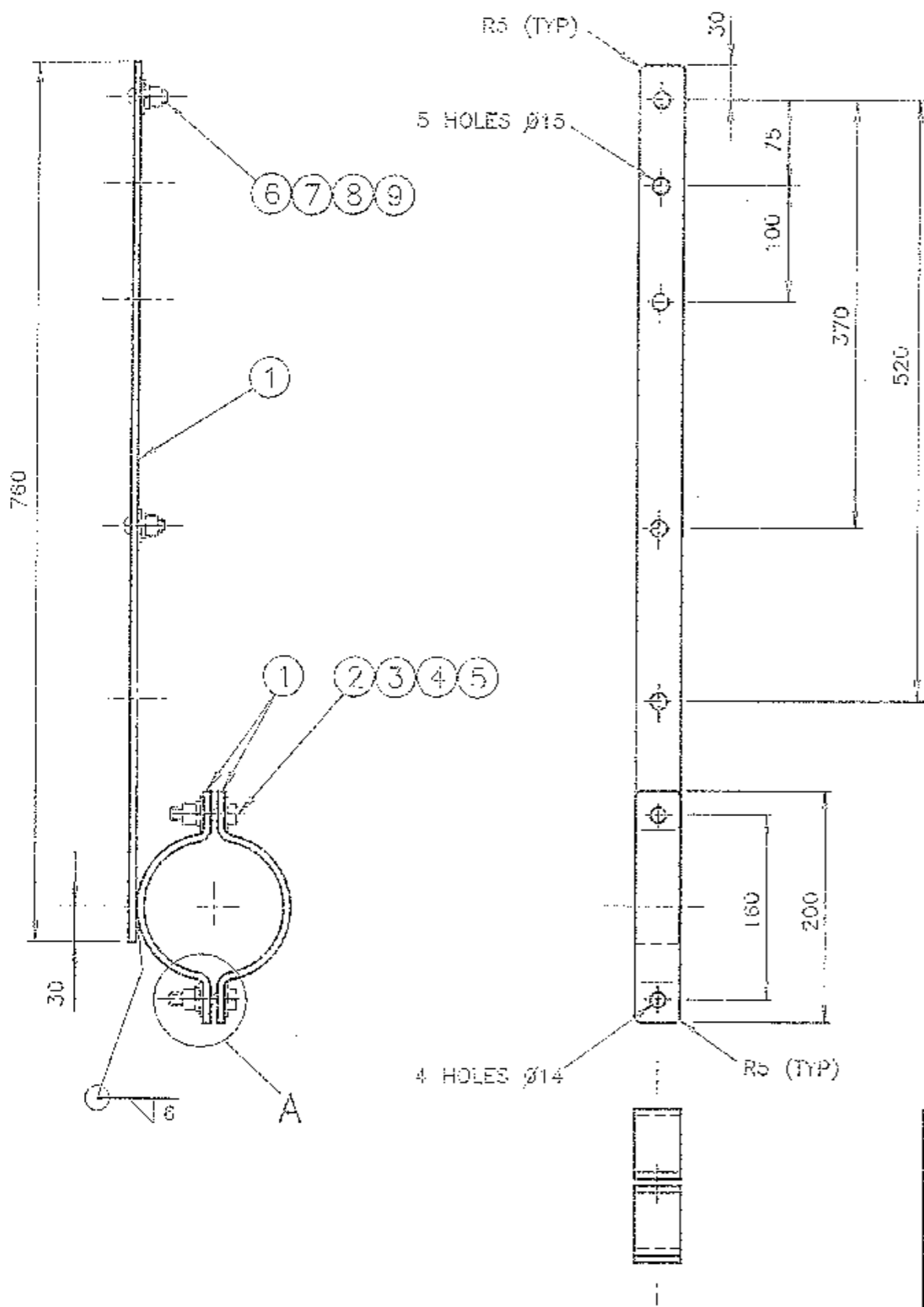
SUPPLY CAT NO  
35025310

REFERENCE DRAWINGS	
BKT VERTICAL SMALL	VT006-56
BKT HORIZONTAL	VT006-55

ROADS AND TRAFFIC AUTHORITY OF NSW  
TRAFFIC SIGNALS

**BRACKET VERTICAL SADDLE (LARGE)  
MOUNTING TO A TYPE 2 SIGNAL POST  
FOR 600mm - 900mm HIGH SIGNS**

SCALE 1 : 5 OR AS SHOWN	APPROVED:
SUPERSEDES: -	<i>[Signature]</i>
DRAWN RVC 07-09-98	MGR STANDARDS & QUALITY
CHECKED <i>[Signature]</i>	ISSUE A
PASSED <i>[Signature]</i>	VT006-57

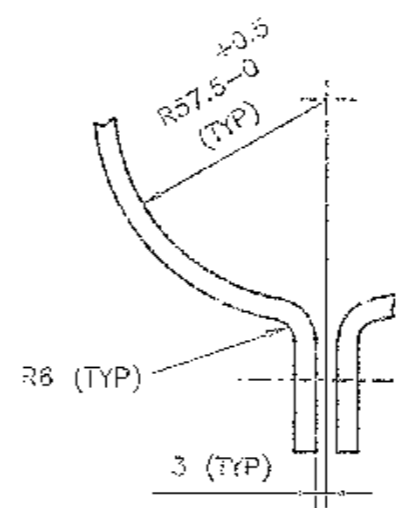


### NOTES

- TOLERANCE OF ALL DIMENSIONS UNLESS OTHERWISE INDICATED:
  - UP TO AND INCLUDING 100mm TO BE  $\pm 0.5$ mm.
  - OVER 100mm TO BE  $\pm 1$ mm.
  - ANGULAR TOLERANCE  $\pm 1^\circ$ .

TOLERANCE OF THE FLAT STEEL OF BRACKET TO COMPLY WITH AS 3679.

- ALL BURRS, SHARP EDGES & WELDING SCALE TO BE REMOVED BEFORE GALVANISING.
- ALL WELDS TO BE CONTINUOUS FILLET IN ACCORDANCE WITH AS 1554 PART 1.
- BRACKET TO BE HOT DIP GALVANISED IN ACCORDANCE WITH AS 1650.
- ITEMS 2 TO 9 TO BE SUPPLIED FULLY ASSEMBLED AS SHOWN.



DETAIL A  
2 : 1

9	HEX NUT M10 TO AS 1112	MILD STEEL	GALV TO AS 1214	2
8	SPRING WASHER M10 TO AS 1962	SPRING STEEL	GALV TO AS 1650	2
7	FLAT WASHER M10 LARGE SERIES TO AS 1237	MILD STEEL	GALV TO AS 1650	2
6	CUP HEAD SQUARE NECK BOLT M10 X 30 TO AS 1390	MILD STEEL	GALV TO AS 1650	2
5	HEX NUT M12 TO AS 1112	MILD STEEL	GALV TO AS 1214	2
4	SPRING WASHER M12 TO AS 1962	SPRING STEEL	GALV TO AS 1650	2
3	FLAT WASHER M12 TO AS 1237	MILD STEEL	GALV TO AS 1650	4
2	HEX HD SCREW M12 x 50 TO AS 1111	MILD STEEL	GALV TO AS 1214	2
1	BRACKET 40 x 6 FLAT TO AS 3679	MILD STEEL	GALV TO AS 1650	TO SUIT

DIMENSIONS ARE IN MILLIMETRES



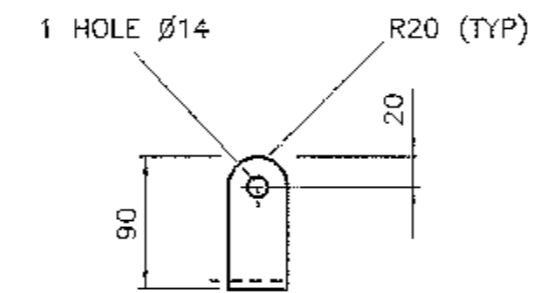
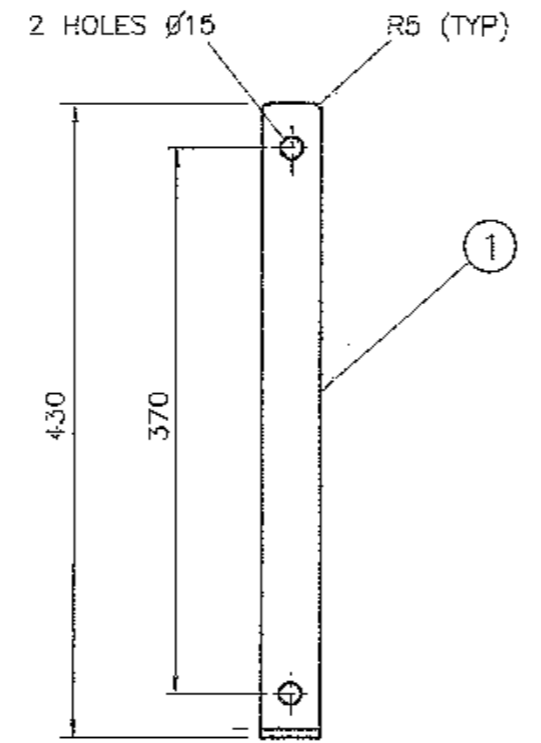
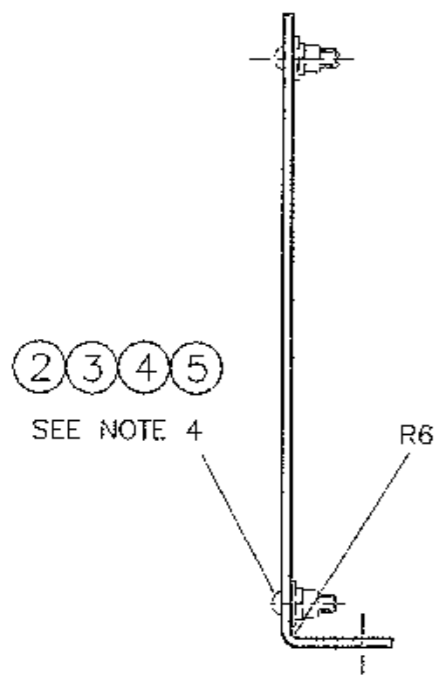
A ORIGINAL ISSUE

REFERENCE DRAWINGS	
BKT VERTICAL SMALL	VT006-56
BKT VERTICAL LARGE	VT008-57
SUPPLY CAT NO 35025311	

ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS	
BRACKET HORIZONTAL SADDLE MOUNTING TO A TYPE 2 TRAFFIC SIGNAL POST FOR ALL SIGNS	

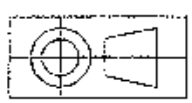
SCALE 1 : 5 OR AS SHOWN
SUPERSEDES: -
DRAWN RVC 10-09-98
CHECKED B. Taylor 10-9-98
PASSED B. Taylor 10-9-98

APPROVED: <i>[Signature]</i>
MGR STANDARDS & QUALITY
ISSUE A
VT006-58



**NOTES**

1. TOLERANCE OF ALL DIMENSIONS UNLESS OTHERWISE INDICATED:
  - UP TO AND INCLUDING 100mm TO BE  $\pm 0.5$ mm.
  - OVER 100mm TO BE  $\pm 1$ mm.
  - ANGULAR TOLERANCE  $\pm 1^\circ$ .
 TOLERANCE OF THE FLAT STEEL OF BRACKET TO COMPLY WITH AS/NZS 3679.
2. ALL BURRS, SHARP EDGES AND WELDING SCALE TO BE REMOVED BEFORE GALVANISING.
3. BRACKET TO BE HOT DIP GALVANISED IN ACCORDANCE WITH AS/NZS 4680.
4. ITEMS 2 TO 5 TO BE SUPPLIED FULLY ASSEMBLED AS SHOWN.



DIMENSIONS ARE IN MILLIMETRES

ITEM	DESCRIPTION	MATERIAL	FINISH	QTY
5	HEX NUT M10 TO AS/NZS 1112	MILD STEEL	GALV TO AS 1214	2
4	SPRING WASHER M10 TO AS 1968	SPRING STEEL	GALV TO AS/NZS 4680	2
3	FLAT WASHER M10 LARGE SERIES TO AS 1237	MILD STEEL	GALV TO AS/NZS 4680	2
2	CUP HD SQUARE NECK BOLT M10 X 30 TO AS/NZS 1390	MILD STEEL	GALV TO AS/NZS 4680	2
1	BRACKET 40 x 6 FLAT TO AS/NZS 3679	MILD STEEL	GALV TO AS/NZS 4680	TO SUIT

A ORIGINAL ISSUE	SUPPLY CAT NO 35026898	REFERENCE DRAWINGS		ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS	SCALE 1 : 5 UNLESS SHOWN OTHERWISE	APPROVED: 02-07-2002						
		BKT SINGLE MOUNT	VT006-51			SUNIL SRIVASTAVA						
		BKT SINGLE LARGE	VT006-52			MGR EQUIPMENT & STANDARDS						
		BKT DOUBLE SMALL	VT006-53			DRAWN	RVC 13-09-2000	ISSUE	A			
		BKT DOUBLE MEDIUM	VT006-54			CHECKED	BWT 02-07-2002	VT006-61				
BKT DOUBLE LARGE	VT006-55	PASSED	BWT 02-07-2002									

**BRACKET SINGLE END MOUNTED  
FOR 450mm HIGH SPECIAL STOP SIGNS**