



Transnet SOC Limited
T/A Transnet Capital Projects

REQUEST FOR QUOTATION

TFR RME RFQ BOARD
TRANSNET FREIGHT RAIL RME
XXXXX
XXXXXX

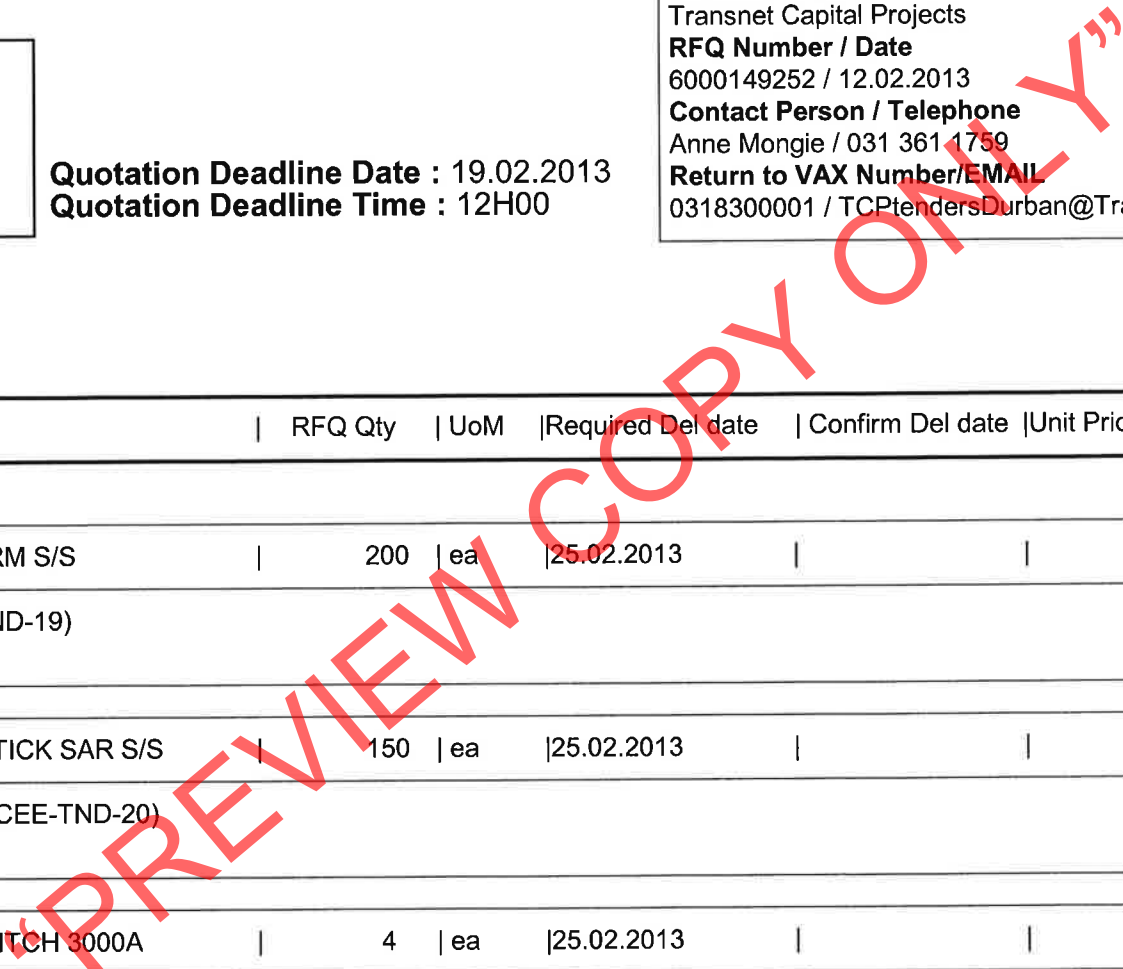
Registration Number: 1990/000900/06
Vat Number : 4720103177

Attention:
sales
Telephone Number :
Fax Number :
Vendor Number :500000

Quotation Deadline Date : 19.02.2013
Quotation Deadline Time : 12H00

REQUEST for QUOTATION
Transnet Capital Projects
RFQ Number / Date
6000149252 / 12.02.2013
Contact Person / Telephone
Anne Mongie / 031 361 1759
Return to VAX Number/EMAIL
0318300001 / TCPtendersDurban@Transnet.net

Item	Material	Description	RFQ Qty	UoM	Required Del date	Confirm Del date	Unit Price Excl	Total Price Excl
00010		STEADY ARM S/S	200	ea	25.02.2013			
STEADY ARM S/S (CEE-TND-19)								
00020		HOCKEY STICK SAR S/S	150	ea	25.02.2013			
HOCKEY STICK SAR S/S (CEE-TND-20)								
00030		TRACK SWITCH 3000A	4	ea	25.02.2013			
TRACK SWITCH 3000A KNIFE 3KVDC (CEE-TLB-037)								
00040		CLAMP C/L DUAL PURPOSE	200	ea	25.02.2013			





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		CLAMP C/L DUAL PURPOSE (CEE-TNB-5)						
00050		CLEVIS PIN 16MM DIAx60M	1,000	ea	25.02.2013			
		CLEVIS PIN 16MM DIAx60MM & SPLIT PIN S/S (CEE-TX-66)						
00060		WRAP LOCK TIE 50MM ALI	200	ea	25.02.2013			
		WRAP LOCK TIE 50MM ALI						
00070		ATTACHMENT FITTING STRU	100	ea	25.02.2013			
		ATTACHMENT FITTING STRUT (CEE-TNB-71)						

"PREVIEW COPY ONLY"



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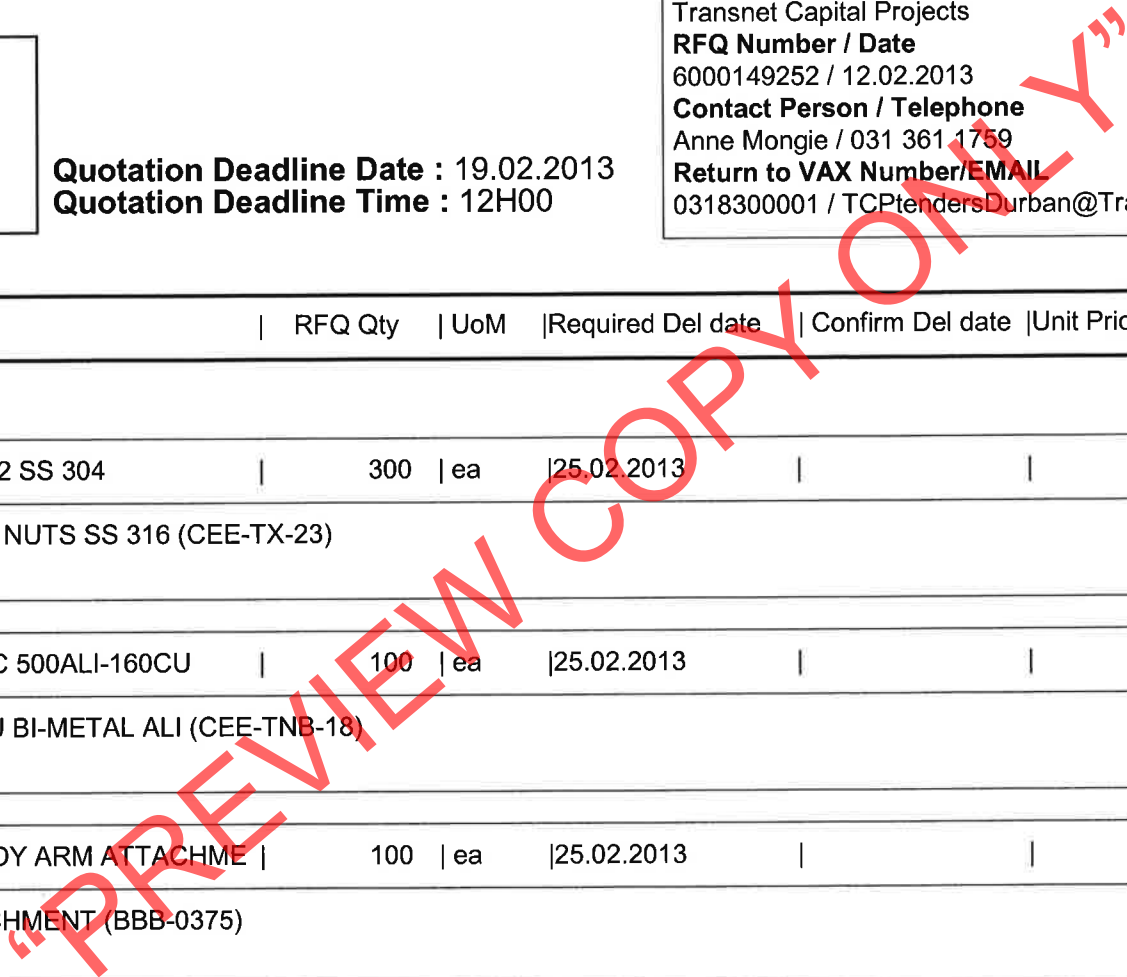
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Item	Material	Description	RFQ Qty	UoM	Required Del date	Confirm Del date	Unit Price Excl	Total Price Excl
00080		U BOLT M12 SS 304	300	ea	25.02.2013			
		U BOLT M12 SS 304 WITH NUTS SS 316 (CEE-TX-23)						
00090		CLAMP DLC 500ALI-160CU	100	ea	25.02.2013			
		CLAMP DLC 500ALI-160CU BI-METAL ALI (CEE-TNB-18)						
00100		PPO STEADY ARM ATTACHME	100	ea	25.02.2013			
		PPO STEADY ARM ATTACHMENT (BBB-0375)						
00110		ALUMINIUM STRAINING CLA	25	ea	25.02.2013			
		ALUMINIUM STRAINING CLAMP FOR 50MM HAZEL CONDUCTOR PISTOL GRIP TYPE						





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Item	Material	Description	RFQ Qty	UoM	Required Del date	Confirm Del date	Unit Price Excl	Total Price Excl
00120		CONTACT WIRE STRAIGHTENE	20	ea	25.02.2013			

CONTACT WIRE STRAIGHTENER (CEETW-337)
 FOR MORE INFORMATION CALL DEES ON 0832789364
 DELIVERY : 130 EEL RD BAYHEAD DBN (ELECTRICAL STORE)

Transnet limited t/a Transnet Freight Rail RME Durban hereby invite you to supply a seperate detailed quotation to supply the above material.
 All technical queries regarding this invitation is to be addressed to Mr.Dees Mohan on 0832789364
 All procurement related queries is to be addressed to :
 Ms. Anne Mongie on 031-361 1759

The closing time for receipt of your official quotation is :
 12h00 on Tuesday 19 February 2013. Telephonic and late quotes will not be accepted. All quotes should be submitted in the tender box at Queens Warehouse 237
 Mahatma Gandhi rd Point Dbn or alternatively vaxed to 0866780040 or e-mail to :
 TCPtendersDurban@transnet.net

Procurement Official - Anne Mongie
 Identification details on sealed envelope- OHTE MATERIAL
 Quotation/ref no. :

The contractors address and identification details have to be shown on each quotation received.
 Please supply the following documents with every quotation submitted :
 Valid tax clearance certificate



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Item	Material	Description	RFQ Qty	UoM	Required Del date	Confirm Del date	Unit Price Excl	Total Price Excl
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Copy of latest BBBEE Certificate
 Certificate of good standing with Workman's compensation commissioner.
 Failing to submit any of the above documents could result in your quotation being disqualified/not accepted.

Note : Transnet may not necessarily accept the lowest or any other offer and reserves the right to select in its favor any, or a portion of any offer made.
 If you are unable to quote for this enquiry, please submit a NO QUOTE with a short reason, otherwise we look forward to receiving your quote by the date and time stated.

"PREVIEW COPY ONLY"



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Delivery Address

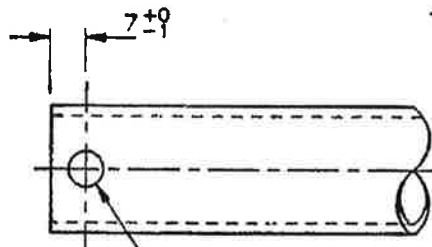
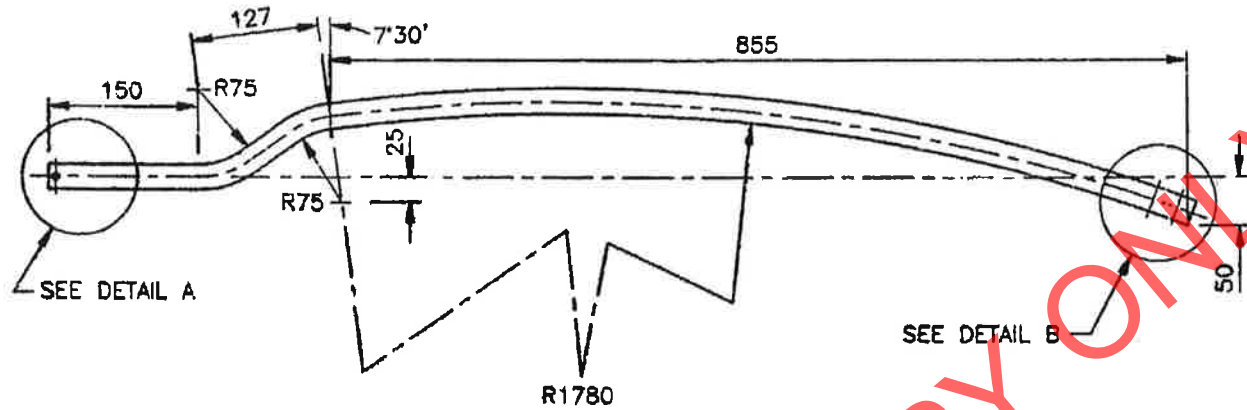
This RFQ is subject to the following conditions:

1. Price/s : The price/s quoted in SA currency and is excluding of V.A.T
2. Delivery : The price/s quoted should include delivery cost to the delivery address stated on the RFQ
3. Returnables : A valid tax clearance certificate and BBBEE certificate from a SANAS accredited verification agency attached to quotation for all quotes above R30 000.
Please note that only the official Transnet RFQ will be accepted and all other correspondence to be attached to the original
4. Safety : To confirm to Transnet Capital Projects Health & Safety plan and specification; HAS-std-0001, copy available on request.
5. Confirmation: To confirm your participation in this tender process please sign and return this document as immediate effect prior to the quotation deadline.
6. Negotiations: The Employer may elect to negotiate the final terms of the contract/order with the preferred tenderer in accordance with Clauses F.2.17 and F.3.13 of the CIDB Standard Conditions of Tender. A copy of which is available upon request.

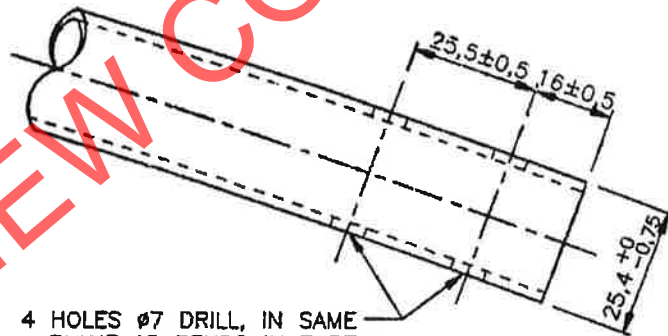
 Signature

 Date

10295780



2 HOLES Ø7 DRILL
DETAIL A
SCALE 1:1



4 HOLES Ø7 DRILL, IN SAME
PLANE AS BENDS IN TUBE
DETAIL B
SCALE 1:1

AMENDMENTS		
NO	NAME	DATE
1	W. BRIGHT	92-09-28
16 DIM WAS 19. DRG. NO. WAS CEE-TN-150. DO REF: T92/045		
2	J van Dyk	94-06-23
REVISED AND UPDATED. DO REF: T94/025		

STORES ITEM NO
54/9314

DIMENSION: mm
SCALE: 1:5

A3

DRAWING NO CEE-
TND-19

SHEET - OF -

MATERIAL: STAINLESS STEEL TUBE 2.03 WALL THK TO SPEC AISI GRADE 304.

DO REF: T79/9	GEN TOL: LIN ± 3	ANG ± 0°30'
DRN: A. JOUBERT	CKD: J. JACKSON	DATE: 79-11-22
ENG: _____	F. PIENAAR	for CHIEF ENG

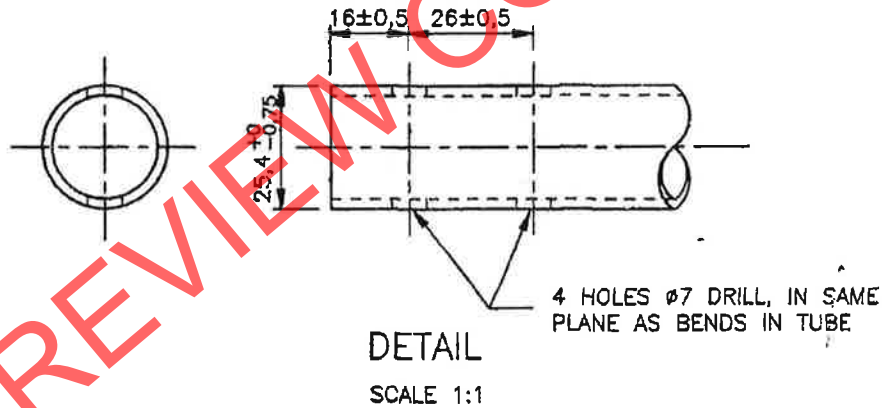
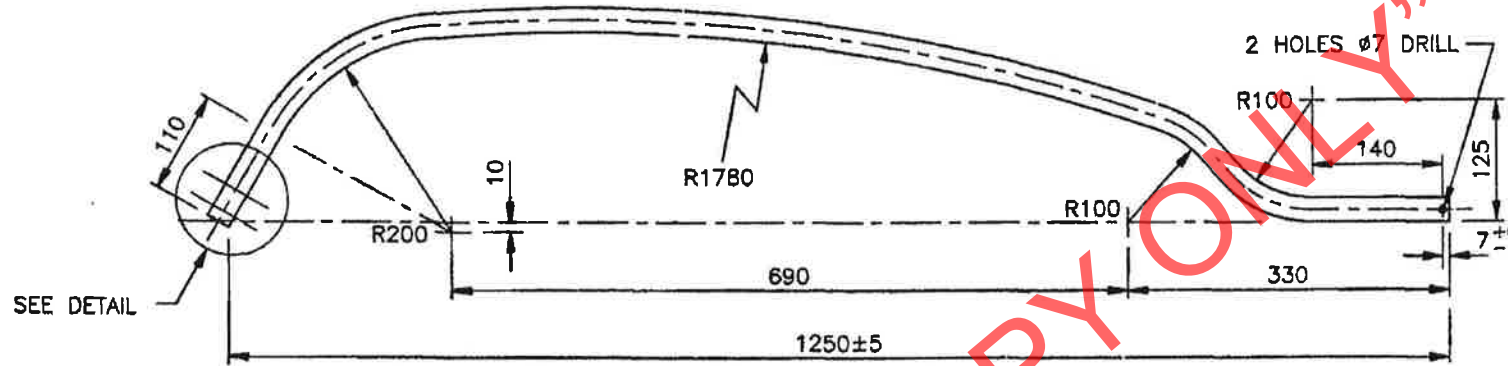
STEADY ARM: CURVED TYPE

INFRASTRUCTURE
(ELECTRICAL)



100001530

10295781



AMENDMENTS		
NO	NAME	DATE
1	W. BRIGHT	92-09-28
16 DIM WAS 19. DRG. NO. WAS CEE-TN-151. DO REF: T92/045		
2	J van Dyk	94-06-23
REVISED AND UPDATED. DO REF: T94/025		

STORES ITEM NO 54/9298
DIMENSION: mm SCALE: 1:5

	A3
DRAWING NO CEE- TND-20	
SHEET -- OF --	

MATERIAL: STAINLESS STEEL TUBE 2,03 WALL THK TO SPEC AISI GRADE 304.

DO REF: T79/9	GEN TOL: LIN ± 3	ANG ± —
DRN: A. JOUBERT	CKD: J. JACKSON	DATE: 79-11-22
ENG: —	F. PIENAAR	for CHIEF ENG

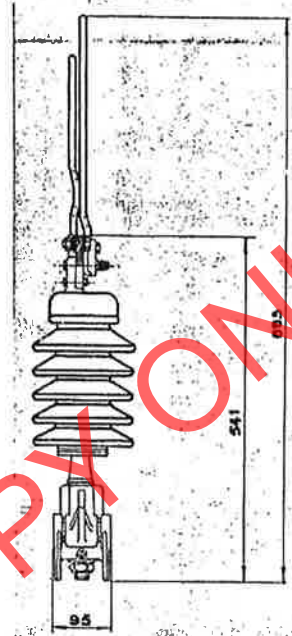
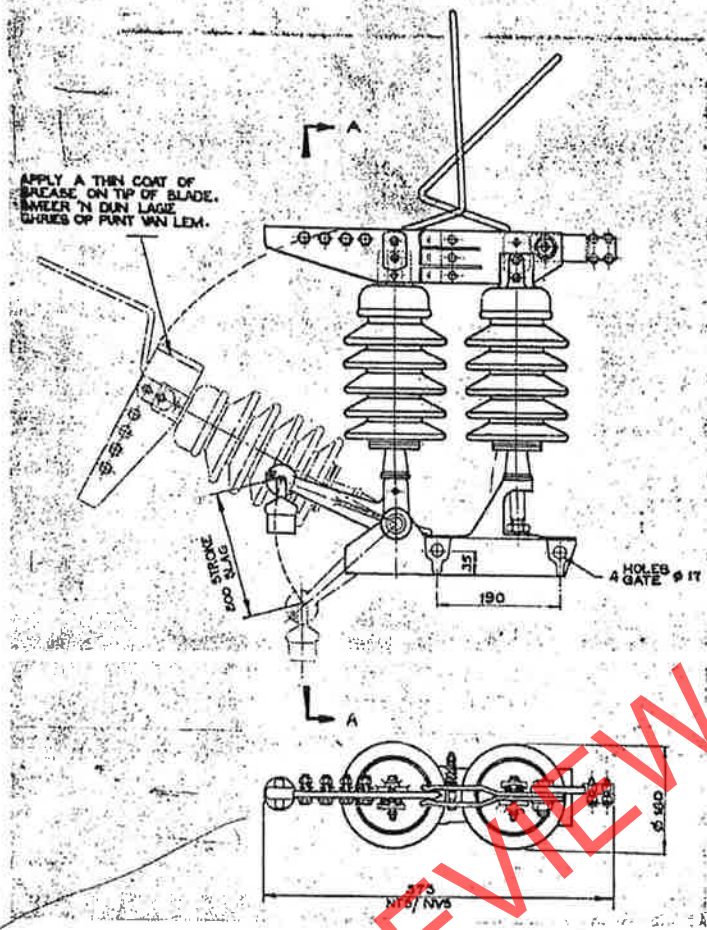
HOCKEY STICK: PULL-OFF TYPE

INFRASTRUCTURE (ELECTRICAL) SPOORNET

PREVIEW COPY ONLY

T0000381

102 95 782



ELEVATION A-A
DEURSNEE A-A

- NOTES / OPMERKINGS
1. DRG. TO BE READ IN CONJUNCTION WITH SPEC. CEE.0117.85
TEK. MOET SAAM MET SPES. CEE.0117 85 GELEES WORD.
 2. FOR SIDING SWITCH ARRANGEMENT SEE DRG. NO. CEE-TLB-38.
VIR SYLYN-SKAKELAARRANGSKIKKING KYK TEK.
 3. FOR SWITCH ROD ADAPTOR SEE DRG. NO. CEE-TLB-34.
VIR SKAKELAARSTANG-PASSTUK KYK TEK.



DIMENSIONS, MILLIMETRES
AFMETINGS, MILLIMETER

DRN GET	E. G. LOUW.	GEN TOLERANCES, LINE	—
TRCD NST	L WOOD.	DO REF TE-VERW	J72168
CKD NSS	E. F. JURGENSEN.	DATE	—
		DATUM	—
	CHIEF ELECTRICAL ENGINEER ELEKTRIESE HOOFINGENIEUR	W. PHILLIPS	For NS.
	SOUTH AFRICAN TRANSPORT SERVICES SUID-AFRIKAANSE VERVOERDIENSTE	JOHANNESBURG	

ELECTRIFICATION TYPES / ELEKTRIFIKASIE TYPES, A, B, F.
SWITCH, KNIFE.
TYPICAL TRACK SECTIONING SWITCH.
(GENERAL ARRANGEMENT)
SKAKELAAR, LEM-
TIPIESE BOBAANVERDELINGSKAKELAAR.
(ALGEMENE RANGSKIKKING)

AMENDMENTS WYSIGINGS		
NO	NAME NAAM	DATE DATUM
2.	J. STEYN	87-03-13
REDRAWN & REVISED. OORGETEKEN EN HERSEEN. DRG. NO WAS CEE-54/112240 TEK. NO WAS CEE-54/112240 DO REF T86/48 TK-VERW		
CLASS/ASSY DRG KLAS/SAMESTI-TEK ELECTRIFICATION TYPES REFERENSE DRG NO CEE-MA-26 SH 7B ELEKTRIFIKASIE TYPES VERWYSINGSTEK-NO CEE-MA-369 VEL 7B MODULUS ITEM NO (M) 54/15276 PREVIOUS ITEM NO VORIGE ITEM NO 54/112240 DRAWING NO CEE- TEKENING NO CEE- TLB-37 SHEET OF VEL VAN		

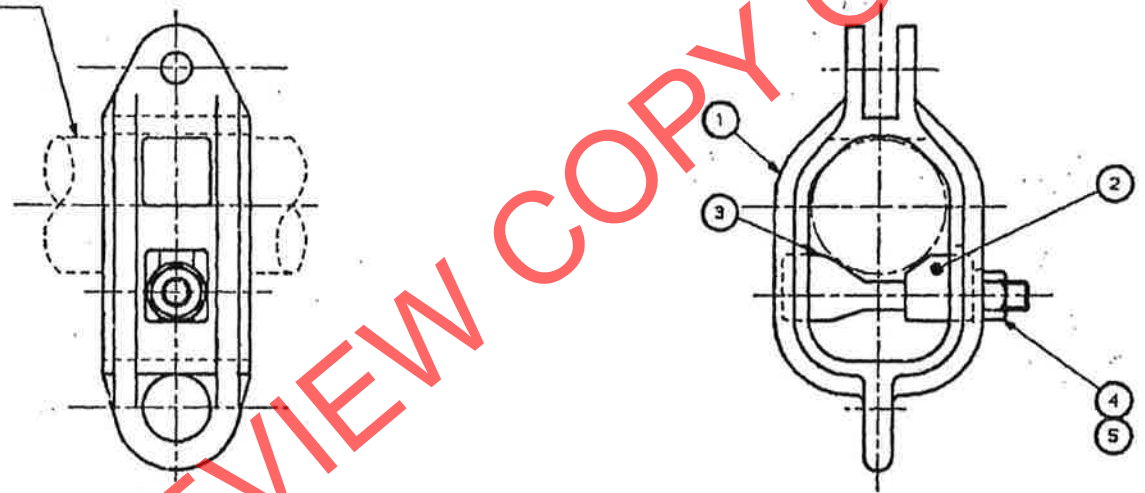
“PREVIEW COPY ONLY”

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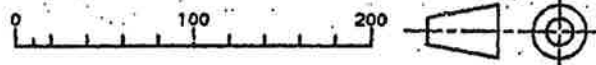
ITEM	DESCRIPTION / BESKRYWING	QTY HVLD	STORES ITEM NO MAGASYN/ITEM	DRG TEK NO CEE	AMENDMENTS WYSIGINNS
1	CLAMP BODY KLAMPROMP	1	54/-----	TNB-5 SH VEL 2	NO NAME DATE
2	WEDGE BLOCK WIGBLOK	1	54/-----	TX-85	5 8 Abraham 88-03-04
3	WEDGE BOLT WIGBOU	1	-----	TX-86	REVISED, REDRAWN AND RENUMBERED. DRG NO WAS CEE-54/110234 HERSIEN, OORGETEKEN EN HERNOUMMER. TEK NO WAS CEE-54/110234 DO REF T87/103 TK-VERW
4	SPRING WASHER M16 VEERWASTER M16	1	-----	-----	
5	NUT, STEEL M16-7H MOER, STAAL M16-7H	1	-----	-----	

6 J.V.T. 89-10-16
ITEM NOS (54/489054/11024)
REMOVED/VERWYDER.
D O REF T89/005
TK-VERW

TUBULAR CANTILEVER ARM
BUISVORMIGE-VRYDRAERARM



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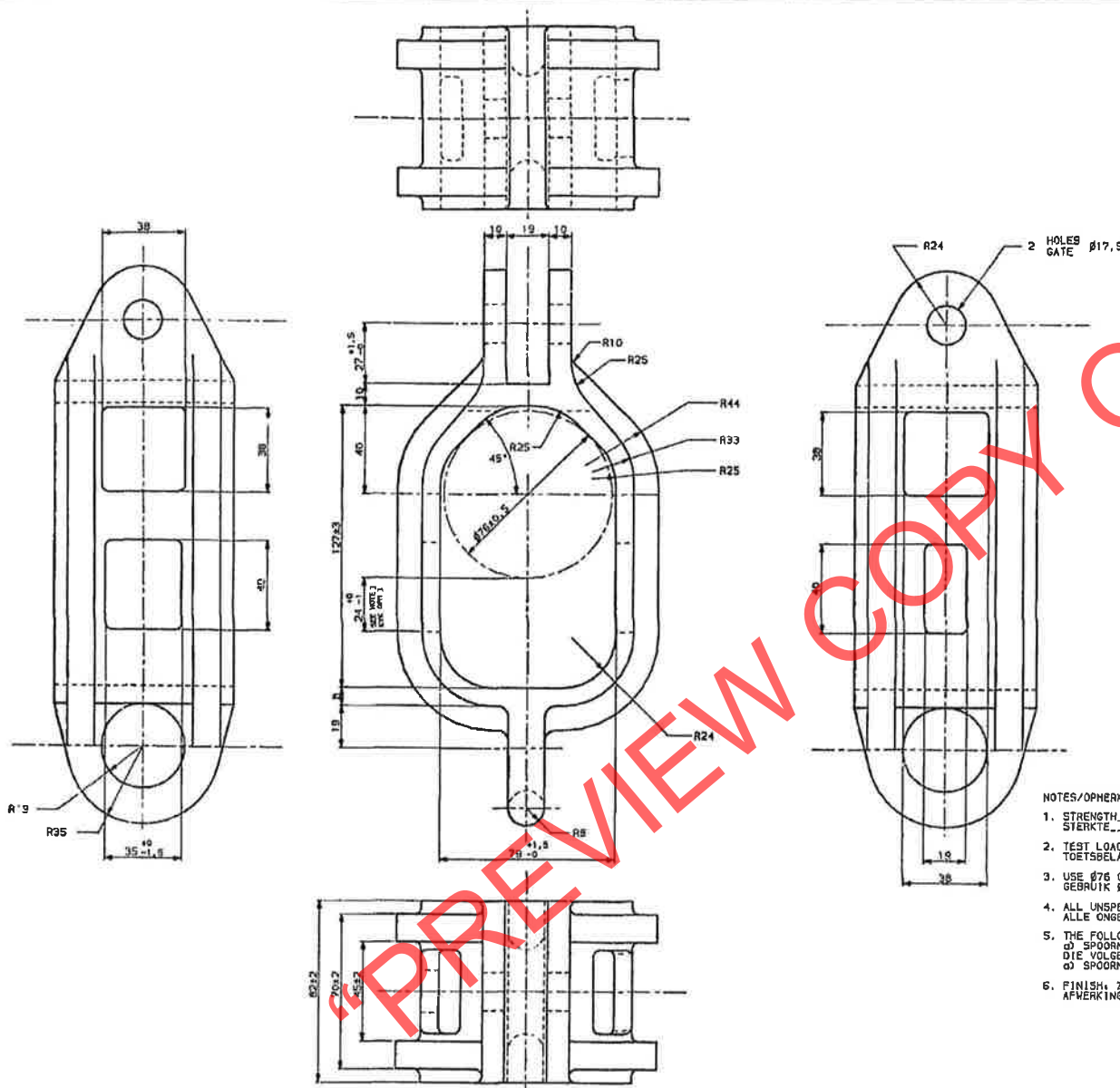


DIMENSIONS, MILLIMETRES AFMETINGS, MILLIMETER	
DRN _____	GEN TOLERANCES, LINE _____
GET _____	ALG TOLERANSIES, ANG/HOEK _____
TRCD _____	DO REF _____ ENG _____
NGT CAD _____	TK-VERW _____ IR _____
CKD _____	DATE 65/03/18
NGS _____	DATUM _____
R. BARNES For ne.	
CHIEF ELECTRICAL ENGINEER JOHANNESBURG	
ELEKTRIESE HOOFINGENIEUR	
SOUTH AFRICAN TRANSPORT SERVICES	
SUID-AFRIKAANSE VERVOERDIENSTE	

ELECTRIFICATION TYPE, A, B & C
CLAMP ASSEMBLY-DUAL PURPOSE
TUBULAR CANTILEVERS
ELEKTRIFIKASIE TIEPE, A, B & C
KLAMPSAMESTEL-TWEDOELIG
BUISVORMIGE VRYDRAERARMS

ASSY DRG
SAMEST-TEK
ELECTRIFICATION TYPES
REFERENCE DRG NO
CEE-MA-26 SH 7B
ELEKTRIFIKASIE TIEPE
VERWYSINGSTEK-NO
CEE-MA-368 VEL 7B
STORES ITEM NO
MAGASYN/ITEM NO
54/4889
DRAWING NO CEE-
TEKENING TNB-5
SHEET 1 OF 2
VEL VAN 2

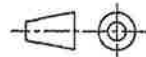
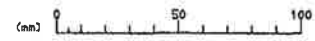
102 95783



- NOTES/OPMERKINGS
1. STRENGTH.....MINIMUM ULTIMATE TENSILE IN LINE WITH EYE AND CLEVIS...44kN
STERKTE.....MINIMUM BREKTRUKSPANNING IN LYN MET OOG EN VURK.....44kN
 2. TEST LOAD.....TEST EACH FITTING IN LINE WITH EYE AND CLEVIS...18kN
TOETSBELASTING.....TOETS ELKE PASSTUK IN LYN MET OOG EN VURK.....18kN
 3. USE Ø76 GAUGE TO CHECK THIS DIMENSION
GEBRUIK Ø76 SETMAAT OM HIERDIE AFMETING NA TE GAAN
 4. ALL UNSPECIFIED RADII R3
ALLE ONGESPEKIFISEERDE RADIUSSE R3
 5. THE FOLLOWING PERMANENT MARKINGS MUST APPEAR ON THIS ARTICLE.
a) SPOORNET b) MAKER'S IDENTIFICATION c) BATCH NUMBER
DIE VOLGENDE PERMANENTE MERKE MOET OP DIE ARTIKEL VERSKYN.
a) SPOORNET b) VERVAARDIGER SE KENTEKEN c) LOTNOMMER
 6. FINISH: ZINC COAT TO SPEC
AFWERKING: SINKBEDEK VOLG SPES 5AB5 763

AMENDMENTS WYSIGINGS		
NO	NAME NAAM	DATE DATUM
2	Abrham	08-01-00
REVISED, REDRAWN AND RENUMBERED. DRG NO WAS OEG-TN-425 HERSTIEN, OORGETEKEN EN HERNUMMER. TEK NO WAS OEG-TN-425 DO REF. T87/103 TK-VERW		
3	JVT	09-0-05
ITEM NO (5474690) REMOVED/VERWYDER. DO REF. T89/005 TK-VERW		
4		09-06-11
MATERIAL & NOTE 5 REVISED MATERIAAL & OPH 5 HERSTIEN DO REF. T90/040 TK-VERW		

DIMENSIONS, MILLIMETRES
AFMETINGS, MILLIMETER



DO REF _____ GEN TOLERANCES, LINE 1.0
TK-VERW _____ ALG TOLANSIES, LYN 1.0
DRN _____ ENG DATE 05/03/18
SET _____ LR DATUM

ELECTRIFICATION TYPES / ELEKTRIFIKASIE TYPES A, B & C

CLAMP BODY, DUAL PURPOSE
TUBULAR CANTILEVERS

MATERIAL/MATERIAAL
SPHEROIDAL GRAPHITE IRON
SFEROIDAALGRAFIET-IJSTER
TO SPEC 5AB5 036 GRADE 34 50
VOLG SPES 5AB5 036 GRADE 34 50

for n.
R BARNES
CHIEF ENGINEER HOOF INGENIEUR
(POWER SUPPLIES) (KRAFTVOORSIENING)
INFRASTRUCTURE INFRASTRUKTUUR



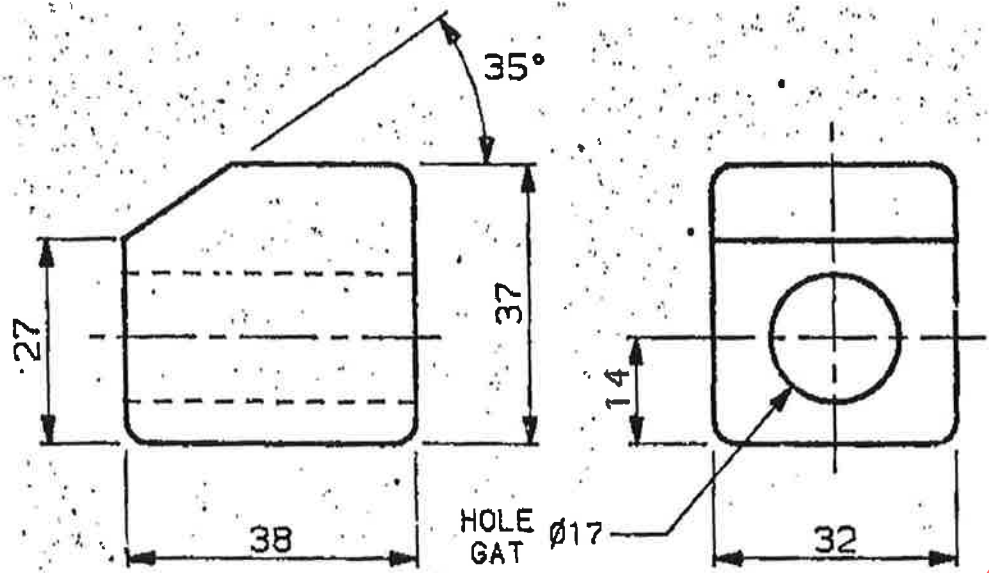
KLAMPROMP, TWEEDOELIG
BUIJSVORMIGE VRYDRAERARMS

ELECTRIFICATION TYPES
REFERENCE DRG NO
OEG-TN-39 SH 78
ELEKTRIFIKASIE TYPES
VERWYSINGSTEK-NO
OEG-TN-39 VEL 78

STORES ITEM
MAGASYNITEM

DRAWING
TEKENING NO CEE-
TNB-5
SHEET 2 OF 2
VEL 2 VAN 2

10295183

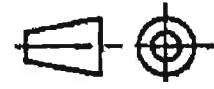
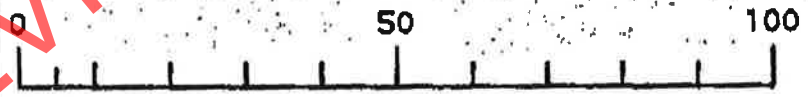


NOTES/OPMERKINGS

1. THIS ARTICLE MUST BE MANUFACTURED UNDER THE MARK OF THE SABS. HIERDIE ARTIKEL MOET VERVAARDIG WORD VOLGENS 'N PROSES WAT ONDER INSPEKSIE VAN DIE SABS STAAN
2. THIS ARTICLE MUST BE ZINC COATED UNDER THE MARK OF THE SABS TO SPEC SABS 763. HIERDIE ARTIKEL MOET SINKBEDEK WORD VOLGENS 'N PROSES WAT ONDER INSPEKSIE VAN DIE SABS STAAN (SPES SABS 763)
3. ALL UNSPECIFIED RADII R3. ALLE ONGESPEKIFISEERDE RADIUSSE R3

DIMENSIONS: MILLIMETRES
AFMETINGS: MILLIMETER

MATERIAL / MATERIAAL
 MALLEABLE CAST IRON TO SABS 1190
 BLACKHEART GRADE B340, WHITEHEART
 GRADE W410 OR PEARLITIC GRADE P440
 SMEEBARE GIETYSER VOLG. SABS 1190
 SWARTKERN GRAAD B340, WITKERN GRAAD
 W410 OF PERLITIES GRAAD P440

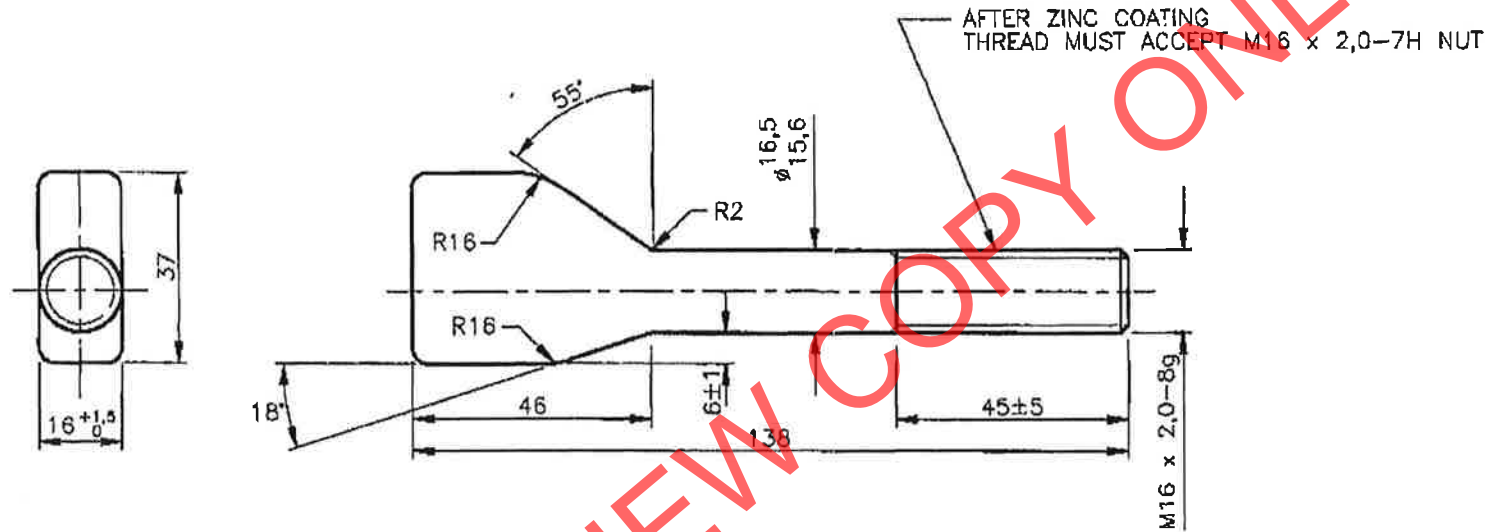


DRN _____ GET _____	GEN TOL: LIN ± 0.1 ALG TOL: ANG/HOEK ± 0°30'
TRCD NGT CAD	DO REF TK-VERW ENG IR
CKD _____ NGS _____	DATE DATUM 65/03/18 R. BARNES for n. JOHANNESBURG
CHIEF ELECTRICAL ENGINEER ELEKTRIESE HOOFINGENIEUR	
SOUTH AFRICAN TRANSPORT SERVICES SUID-AFRIKAANSE VERVOERDIENSTE	

WEDGE BLOCK
 FOR CLAMP ON TUBULAR CANTILEVERS
WIGBLOK
 VIR KLAMP AAN BUISVORMIGE VRYDRAERS

AMENDMENTS WYSIGINGS		
NO	NAME NAAM	DATE DATUM
2	GJA	88-3-A
REDRAWN AND RE-NUMBERED. DRG NO WAS CEE-TN-412 OORGETEKEN EN HERNOMMER. TEK NO WAS CEE-TN-412 DO REF T87/103 TK-VERW		
3	J.V.T.	89-10-16
ITEM NO (54/11024) REMOVED / VERWYDER. D O REF TK-VERW T 89/005		
CEE-TNB-5 SH/VEL 1 CEE-TNB-4 SH/VEL 1		
ASSY DRG SAMEST-TEK		
STORES ITEM NO MAGASYNITEM		
DRG TEK NO CEE- TX-85		
SHEET 1 OF 1 VEL 1 VAN 1		

10295783



FINISH
ZINC COAT TO SPEC SABS 763 FOR CONDITIONS IN SITU.

NOTE
ALL UNSPECIFIED RADII R3.

AMENDMENTS		
NO	NAME	DATE
5	G ABRAHAM	88-03-04
REDRAWN AND RENUMBERED. DRG NO WAS CEE 54/110235 DO REF T87/103		
6	JP du P	96-02-07
REVISED, THREAD PITCH WAS 1,5. DO REF: T96/003		

DIMENSIONS: mm
SCALE: 1:1

MATERIAL: ITEM NO _____, STEEL TO BS 916		
DO REF: -	GEN TOL: LIN ± 1,5	ANG ± 0° 30'
DRN: -	CKD: -	DATE: 65-03-18
ENG: -	R BARNES for CHIEF ENG	

WEDGE BOLT
FOR CLAMP ON TUBULAR CANTILEVERS



DRAWING NO CEE-
TX-86
SHEET - OF -

INFRASTRUCTURE
(ELECTRICAL)

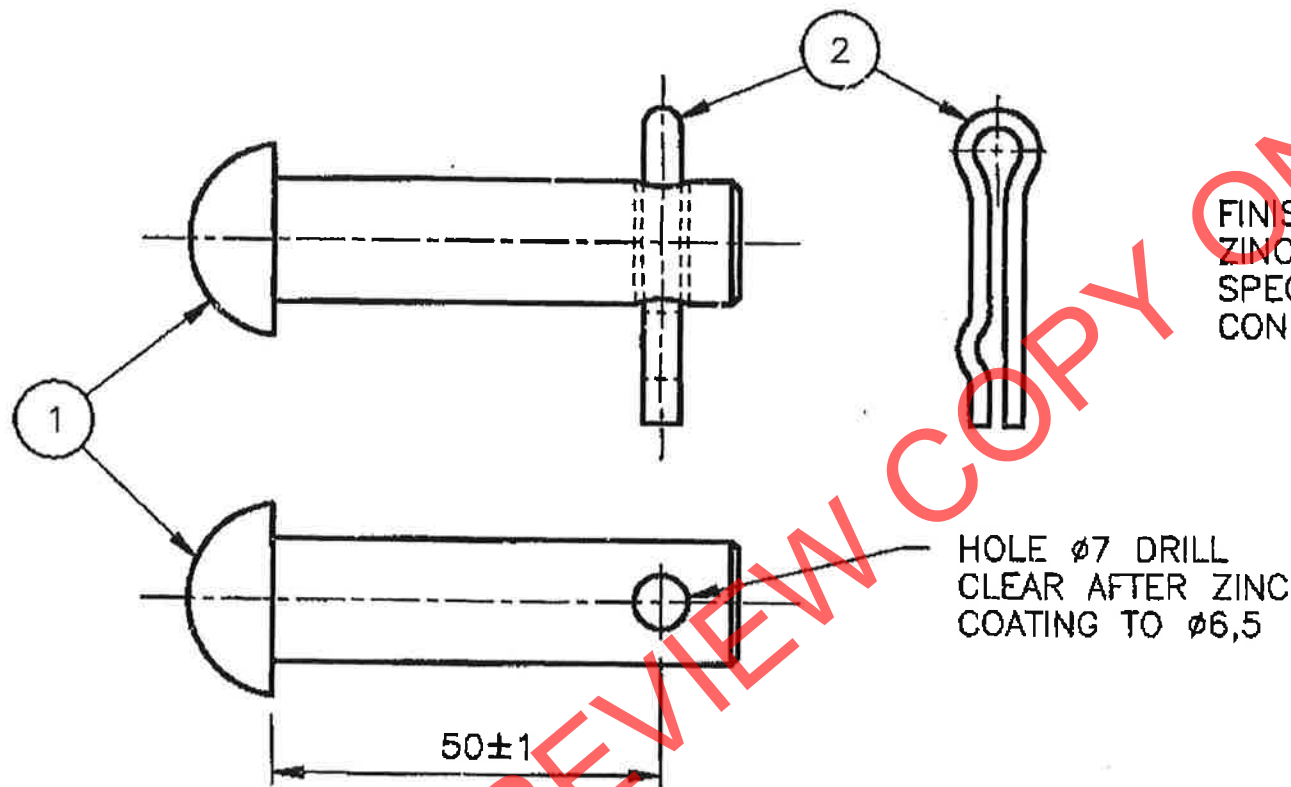


T0000995

10295784

ITEM	DESCRIPTION	QTY	STORES ITEM NO	DRG NO CEE--	AMENDMENTS		
1	RIVET, STEEL, SNAP HEAD, $\phi 16$ x 60 LG	1	01/22722	---	NO	NAME	DATE
2	LOCKING SPLIT PIN	1	54/3734	TX-54	3	J v DÿK	94/8/4

DIMENSION 50 WAS 46. TOL REVISED. ITEM 1 STORES ITEM NO WAS 01/22710. DO REF T94/046



FINISH
ZINC COAT ITEM 1 TO SPEC SABS 763 FOR CONDITIONS IN SITU.

"PREVIEW COPY ONLY"

STORES ITEM NO. 54/4020

DIMENSIONS: mm
SCALE: 1:1



DO REF: C84/70	GEN TOL: LIN $\pm 0,5$	ANG \pm —
DRN: G.J. v G.	CKD: I.T.	DATE: 70-09-09
ENG: —	T.C. BROOK	for CHIEF ENG

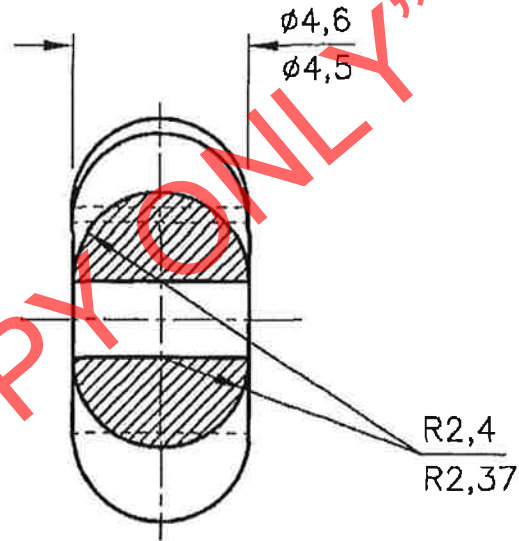
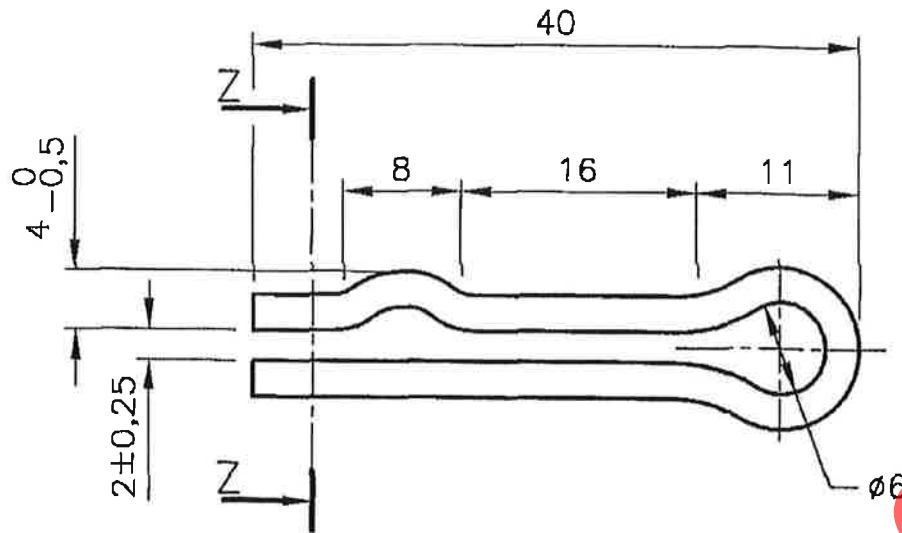
PIN, STRAIGHT, HEADED, $\phi 16$ WITH LOCKING SPLIT PIN

DRG NO CEE--
TX-66
SHT — OF —

INFRASTRUCTURE
(ELECTRICAL)



10295784



SECTION Z - Z
SCALE 5:1

AMENDMENTS		
NO	NAME	DATE
2	J v DÿK	94-8-4
DRG REVISED. DO RÉF T94/046		
3	J HARCUS	98-6-25
PIN DIAMETER WAS ø4,8/ø4,74 DO REF: 198/028		

STORES ITEM NO. 54/3734
DIMENSIONS: mm SCALE: 2:1

MATERIAL: ITEM NO —, BRASS TO SPEC BS 2873/CZ 108 OR STAINLESS STEEL TO SPEC BS 970 GRADE 316S16

DO REF: N37/69	GEN TOL: LIN ± 0,5	ANG ± —
DRN: C.J.S.	CKD: R.N.	DATE: 69-03-03
ENG: F PIENAAR	F PIENAAR	for CHIEF ENG

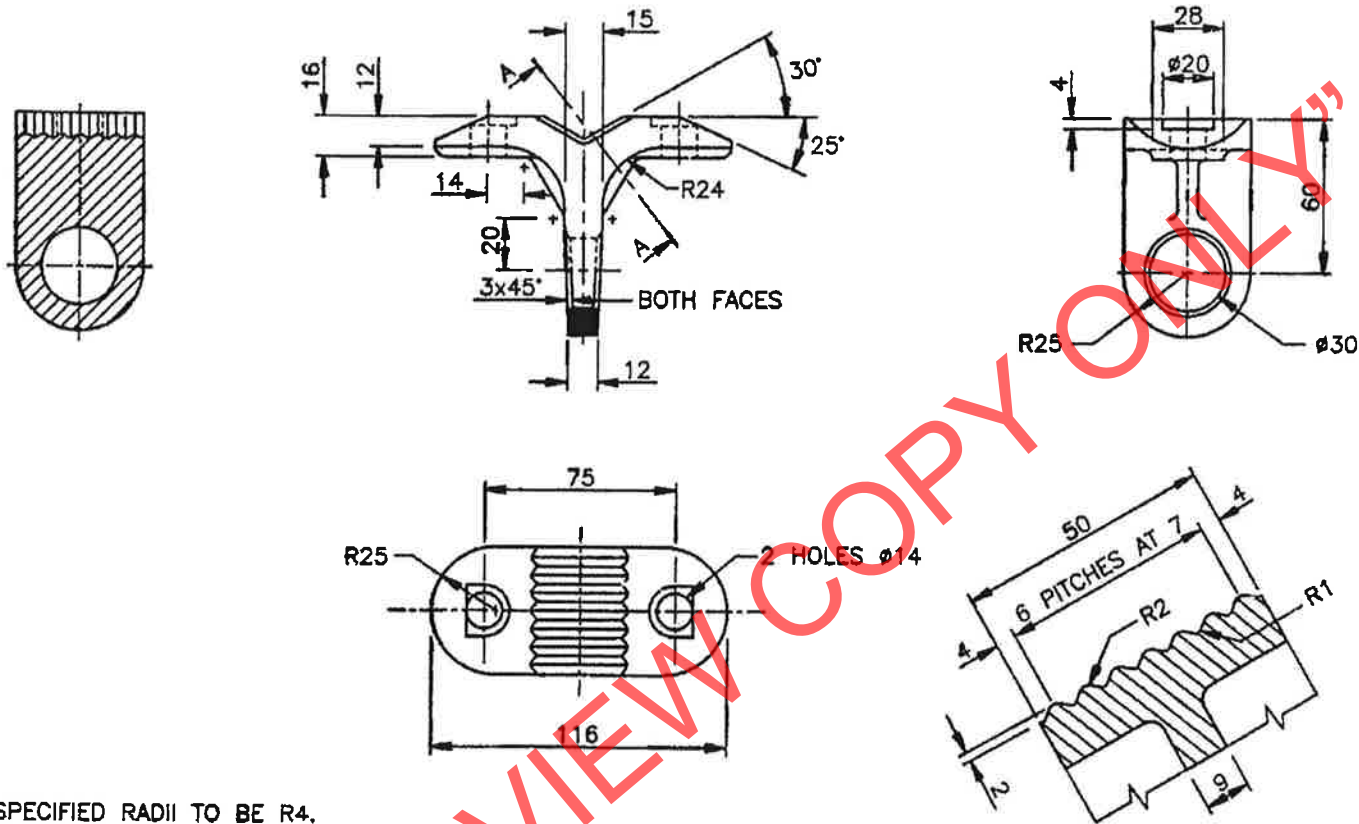
COTTER PIN

INFRASTRUCTURE (ELECTRICAL) SPOORNET

A4
DRG NO CEE-
TX-54
SHT — OF —

10000640

10295786



NOTES

1. ALL UNSPECIFIED RADII TO BE R4.
2. THE FOLLOWING PERMANENT MARKINGS MUST APPEAR ON THIS ARTICLE:
 - a) SPOORNET.
 - b) MAKER'S IDENTIFICATION.
 - c) BATCH NUMBER.
3. FINISH: ZINC COAT TO SPEC SABS 763 FOR CONDITIONS IN SITU.

AMENDMENTS		
NO	NAME	DATE
1	JVT	96-11-15

REVISED, DRG NO WAS CEE-TN-165.
DO REF: T96/001

STORES ITEM NO
54/11376

DIMENSIONS: mm
SCALE: 1:2

A3

DRAWING NO CEE-
TNB-71

SHEET — OF —

MATERIAL: SPHEROIDAL GRAPHITE IRON, TO SPEC SABS 939 GRADE SG 50

DO REF: T80/65	GEN TOL: LIN± 1	ANG± 1°
DRN: T HUMAN	CKD: _____	DATE: 80-02-11
ENG: _____	GA WILLIAMS	for CHIEF ENG

ATTACHMENT FITTING
CANTILEVER STRUT, TOWER HOOK

INFRASTRUCTURE
(ELECTRICAL)

T0000089

10295787

ITEM	DESCRIPTION ~ BESKRYWING	QTY HVLD	STORES MAGASYN NO.	AMENDMENTS WYSIGINGS
1.	STEEL, ROUND $\phi 12 \times 225$ L TO SPEC STAAL, ROND $\phi 12 \times 225$ L VOLG. SPES CME 9 SYM 7	1.	(M)11/2740	No. NAME NAAM DATE DATUM
2.	NUT, PLAIN, HEX, STEEL, GALV. MOER, GEWONE, SESK, STAAL, GEGALV. M12	2.	(M)1/32856	2. B.Stewart 82-04-22
3.	WASHER, FLAT, STEEL, ROUND, NORMAL, GALV. WASTER, PLAT, STAAL, ROND, NORMAAL, GEGALV. M12.	2.	(M)1/33659	REDRAWN IN INK. OORGETEKEN IN INK. D.O. REF. T1/81/74 TK.-VERW.

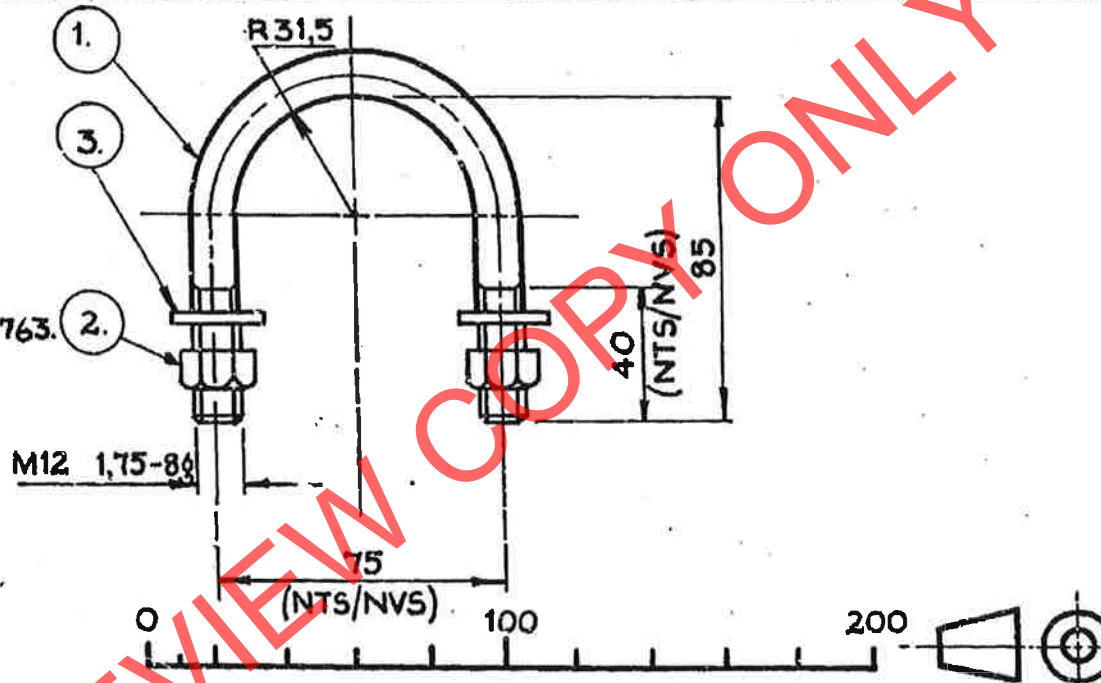
FINISH ~ AFWERKING.

ZINC COAT TO SPEC.
SINKBEDEK VOLG. SPES.

SABS 763.

NUT = S/S 316

BOLT + WASHER = S/S 304



DIMENSIONS : MILLIMETRES
AFMETINGS : MILLIMETER

DRN. B. v.d. WEST.	GEN. TOLERANCES : LIN. $\pm 0,5$	
GET.	ALG. TOLERANSIES : ANG./HOEK \pm —	
TRCD. K. HUGHES	D.O. REF. TK.-VERW.	ENG. IR.
CKD. R.A.MACMILLAN	DATE 80-02-13	G.A. WILLIAMS
NGS.	DATUM	
CHIEF ELECTRICAL ENGINEER JOHANNESBURG ELEKTRIESE HOOFINGENIEUR		
SOUTH AFRICAN TRANSPORT SERVICES SUID-AFRIKAANSE VERVOERDIENSTE		

U - BOLT
M12
U - BOUT

3. J.SWIEGERS 83-03-10

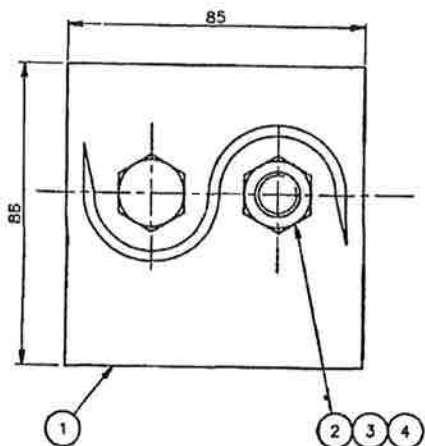
ASSY. DRG. NO. ADDED
SAMEST. TEK.-NO.
BYGEVOEG.
D.O. REF. T2/82/129
TK.-VERW.

CEE-TMG-108
CEE-TMG-99 & 100
CEE-TMG-101 & 102
CEE-TMG-108 & 107
CEE-TMG-110 & 111
CEE-TMG-8A
ASSY. DRG.
SAMEST. - TEK.

DRAWING NO. CEE
TEKENING TX-23

10295854

ITEM	DESCRIPTION	QTY	STORES ITEM NO	DRG NO CEE--	AMENDMENTS	
					NO	NAME DATE
1	ALUMINIUM, GRADE 6063	2			1	H SLIER 98-10-16
2	BOLT & NUT, STAINLESS STEEL, HEX, M12 X 70 LG	2				
3	WASHER, STAINLESS STEEL, FLAT, ROUND, M12	2				
4	WASHER, LOCK, STAINLESS STEEL, M12	2				800mm ² CLAMP REMOVED. DO REF: T98/050
5	BIMETAL STRIP, 15% Cu, 85% Al X 1 THK	2				



SEE NOTE 2

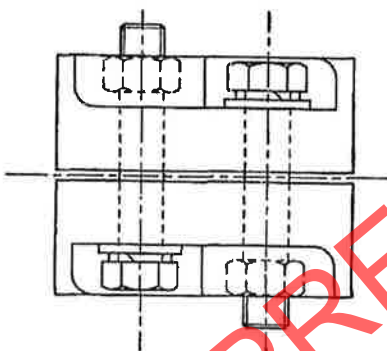
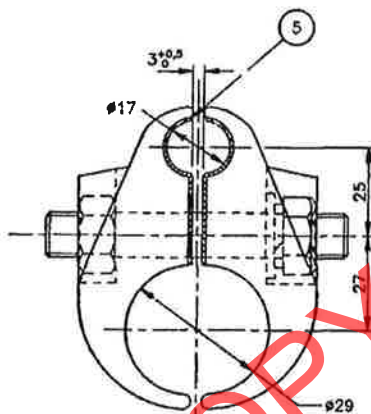


TABLE 1 (SEE NOTE 1)

CONTINUOUS	1 202 A
5 MIN	2 300 A
1 MIN	4 835 A

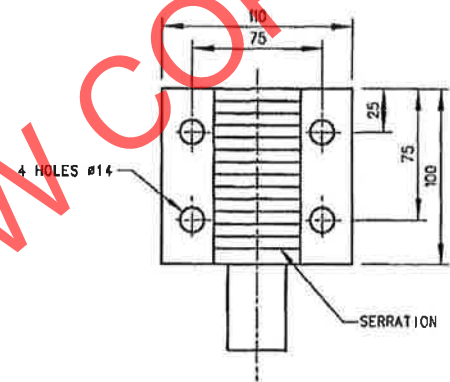
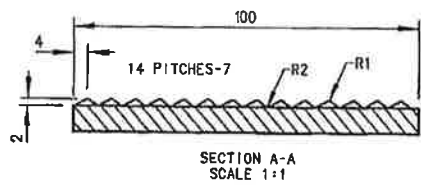
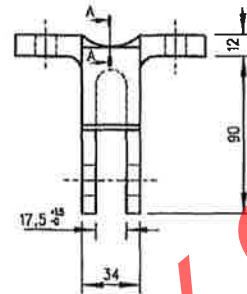
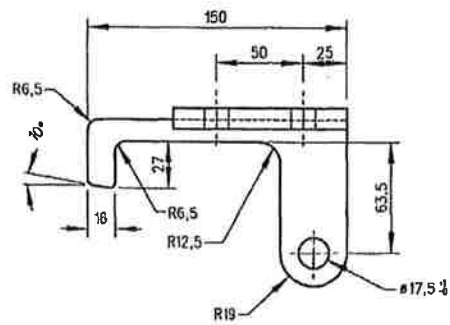
NOTE
 1. WITH AN AMBIENT TEMPERATURE OF 20°C THE TEMPERATURE RISE (Δt) IN THE CLAMP SHALL NOT EXCEED 60°C WHEN APPLYING THE AMPS IN TABLE 1.
 2. THE NUTS OF ITEM 2 ARE ENCAPSULATED IN BOTH HALF BODY'S OF ITEM 1.

DO REF: T92/049	GEN TOL: LIN± 1	ANG± -
DRN: J VON ABO	CKD: JVT	DATE: 95-08-03
ENG: H SLIER	J BEYERS	for CHIEF ENG
INFRASTRUCTURE (ELECTRICAL)		

ALUMINIUM CLAMP WITH BIMETAL INSERTION
 500mm² ALUMINIUM TO 160mm² COPPER WIRE

STORES ITEM NO	54/016937
DIMENSIONS:	mm
SCALE:	1:1
	A2
DRAWING NO	CEE--
	TNB-18
SHEET	OF -

10295855



"PREVIEW COPY ONLY"

NOTE
 1. THE FOLLOWING PERMANENT MARKINGS MUST APPEAR ON THIS ARTICLE:
 (a) SPOORNET
 (b) MAKER'S IDENTIFICATION
 (c) BATCH NUMBER

FINISH: ZINC COAT TO SPEC SABS 763

VERSION		
NO	NAME	DATE

MATERIAL: ITEM NO -, SPHEROIDAL GRAPHITE IRON TO SPEC SABS 936 GRADE SG 50			
DO REF: CDO/177	GEN TOL: LIN ± 1	ANG ± 1°	
DRN: B A BENNIE	CKD: v Djk	DATE: 99-07-14	
ENG: <i>[Signature]</i>	for CHIEF ENG		
CENTRAL DRAWING OFFICE			

STEADY ARM ATTACHMENT
CASTING

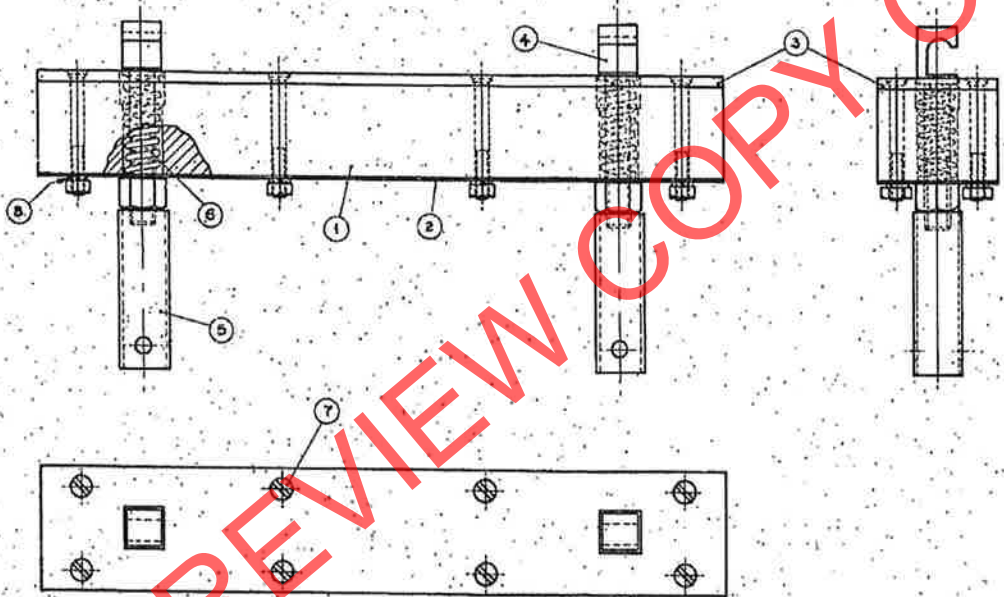
DIMENSIONS: mm	
SCALE: 1:2	
	A2
DRAWING NO	
BBB0375	
VERSION 1	

10295857

ORIGINAL FRAME SIZE
OORSPRONKLIKE RAAMGROOTTE 554x380



ITEM	DESCRIPTION-BESKRYWING	QTY RWLD.	STORES ITEM MAGASYNTEK. NO.	DRG. TEK. NO. CEE.	AMENDMENTS. WYSIGINGS
					NO. NAME NAAM DATE DATUM
1	BLOCK BLOK	1	---	TW-338	
2	BACK PLATE RUGPLAAT	1	---	TW-339	1 E. Louw 77-04-05
3	PRESSURE PLATE DRUKPLAAT	1	---	TW-340	REDRAWN AND METRICATED DRG. NO. WAS CEE -
4	CONTACT WIRE HOLDER RYDRAADHOUER	2	---	TW-341	IPB SINT. 1 OORGETEKEN EN GEME- TRISEER. TEK. NO. WAS CEE-IPB VEL. 1
5	HANDLE HANDVATSEL	2	---	TW-342	
6	SPRING VEER	2	---	TW-343	D.O. REF. Y TT(17&18 TK-VERW.
7	BOLT AND NUT, STEEL, BLACK, FLAT CAP HEAD, ROUND, HEX NUT BOUT EN MOER, STAAL, RU. PLAT VSK. KOP. ROND, BEK. MOER	8	---	---	M 8 x 80 L
8	WASHER, SPRING, STEEL, SINGLE COIL, SQUARE SECTION, SPEC. VEERYWASER, STAAL, ENKELKRONKEL, VERWANTPROEFL. SPEC.	8	1/86396	---	B.S. 4464 TYPE A M 8 TYPE



DIMENSIONS: MILLIMETRES.
AFMETINGS: MILLIMETER



DRN. GET.	E. P. Q.	GEN. TOLERANCES: LIN. ALG. TOLERANSIES: ANG./HOEK	
TRCD NGT.	H. v. WUREN	D.O. REF. TK-VERW.	ENG. J.B.
CRD NGS	DATE 47-04-28.	W.L. KING	
CHIEF ELECTRICAL ENGINEER ELEKTROTEGNIESE HOOFINGENIEUR		S. R. S.	JOHANNESBURG.

CONTACT WIRE STRAIGHTENING DEVICE.
TOESTEL VIR REGUIT BUIG VAN RYDRAAD.

ASSY. DRG. / SAME-TEK.
DRAWING NO. CEE
TEKENING TW-337

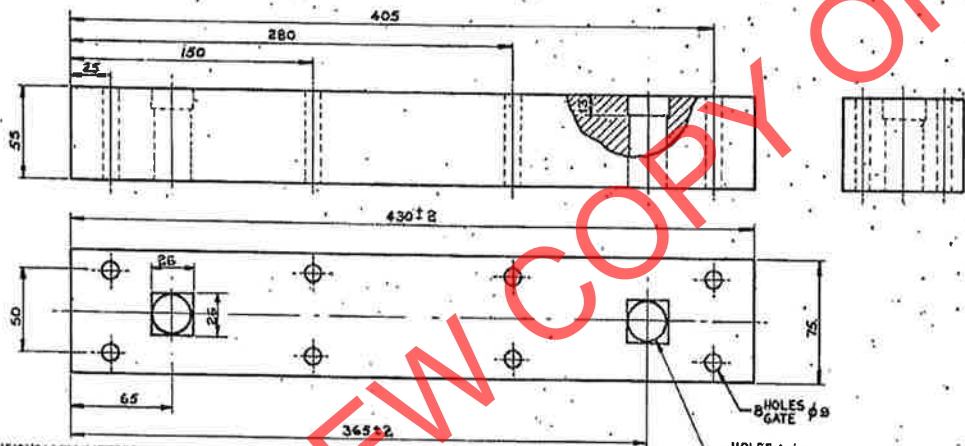
A2
A3

2 3 4 4 3 2

TW-337

10295857

ORIGINAL FRAME SIZE
OORSPRONKLIKE RAAMGROOTTE 390 x 267.



DIMENSIONS: MILLIMETRES
AFMETINGS: MILLIMETER

MATERIAL - MATERIAAL
HARDWOOD - JARRAH
HARDEHOUT
OR SIMILAR
OF SOORTGELYK

DRN GET	E.P.O.	GEN. TOLERANCES: LIN ± 1 ALG. TOLERANSIES: ANG/HOEK
TRCD NGT.	H. v. VUUREN.	DD REF TK-VERW.
CHK. NGS.	DATE DATUM	ENG. J.B. IR. WJ KING
CHIEF ELECTRICAL ENGINEER ELEKTROTEENIESE HOOFINGENIEUR		S A S JOHANNESBURG.

BLOCK.
CONTACT WIRE STRAIGHTENING DEVICE.
BLOK.
TOESTEL VIR REGUIT BIJG VAN RYDRAAD.

AMENDMENTS WYSIGINGS		
NO.	NAME NAAM	DATE DATUM
1.	E. Louw	77-04-03

REDRAWN AND METRI-
GATED DRG. NO. WAS
CEE - IPB SHT. 2.
OORIGTEKEN EN GEME-
TRISEER TEK. NO. WAS
CEE - IPB VEL. 2
D.D. REF. Y 77/1T&1B
TK-VERW.

CEE-TW 337
ASSY. DRG./SAMES-TEK.
DRAWING NO. CEE
TEKENING
TW-338

Δ 2

Δ 3

Δ

Δ 4

Δ 4

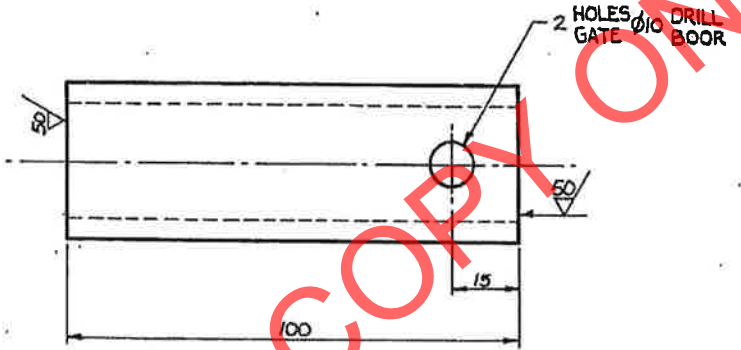
Δ

Δ 3

Δ 2

10295857

ORIGINAL FRAME SIZE 267x180
OORSPRONKLIKE RAAMGROOTTE



DIMENSIONS: MILLIMETRES.
AFMETINGS: MILLIMETER.

MATERIAL - MATERIAAL
PIPE, MEDIUM, BLACK
PYP, MEDIUM, SWART $\phi 25,4$
SPEC. BS.1387.
SPEK.
STORES ITEM NO. 13/12792.
MAGASYNITEM

OR COMMERCIAL GRADE.
OF HANDELSGRAAD.

DRN. GET. EPQ	GEN. TOLERANCES: LIN. \pm ALG. TOLERANSIES: ANG./HOEK	
TRCP. NGT. J. SCHMIDT	D.O. REF. TK-VERW.	ENG. IR.
CKD. NGS.	DATE. DATUM. 17-04-28	W.L.KING. for no.
CHIEF ELECTRICAL ENGINEER. ELEKTROTEGNIESE HOOFINGENIEUR.		S.R. 64'S. JOHANNESBURG

PIPE, HANDLE.
CONTACT WIRE STRAIGHTENING DEVICE.
PYP, HANDVATSEL.
TOESTEL VIR REGUIT-BUIG VAN RYDRAAD.

AMENDMENTS.
WYSGINGS.

No	NAME NAAM	DATE. DATUM.
1	E. Louw.	77-04-05

REDRAWN & METRICATED. DRG. NO. WAS CEE-IPB SHEET b.
HOLE ADDED.
OORGETEKEN EN GR-METRISIEER. TEK. NO. WAS CEE-IPB VEL 6.
GAT BYGEVOEG.
D.O. REF. Y77/17&18.
TK-VERW.

CEE-TW-342.
ASSY. DRG. / SAMES. - TEK.

DRAWING NO. CEE

TW-344.

3

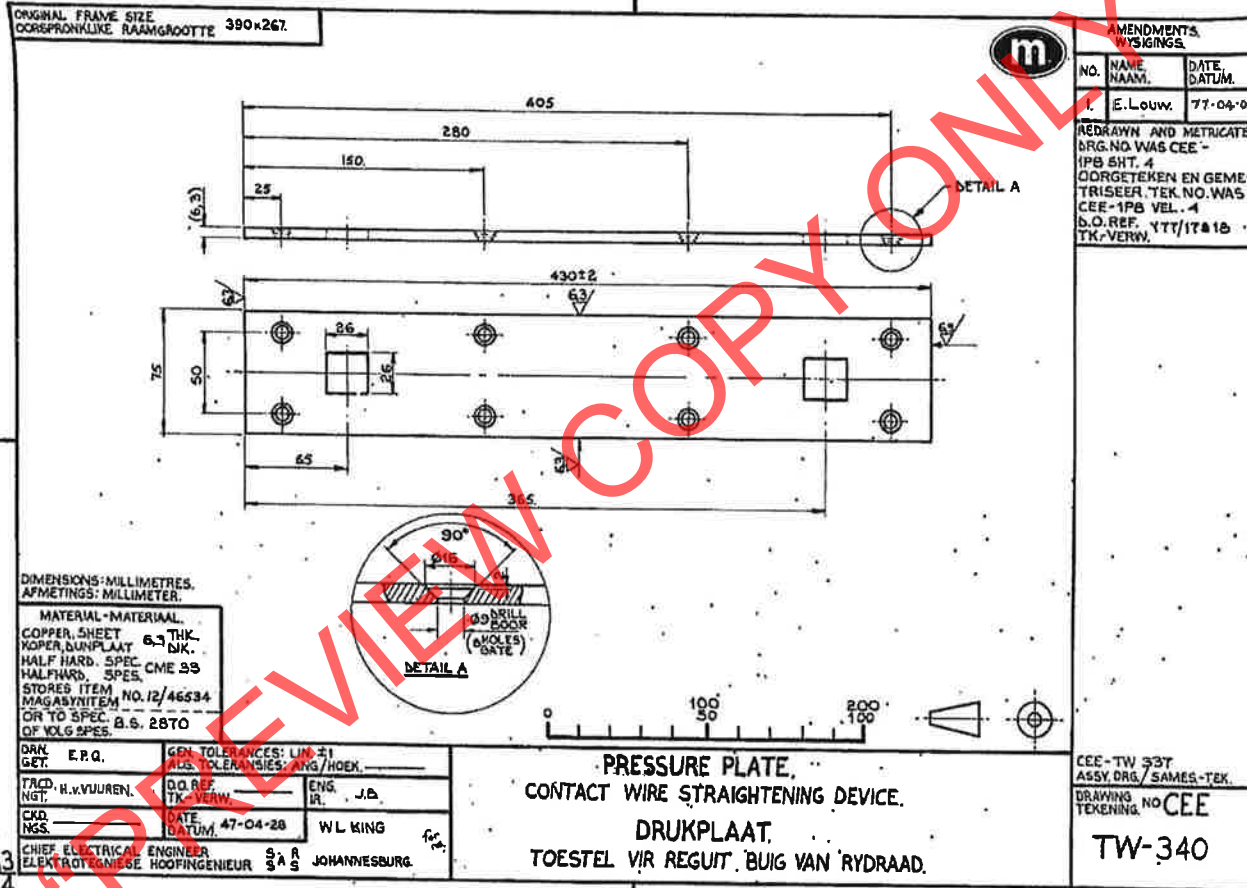
4

4

4

3

10295857



ORIGINAL FRAME SIZE
OORSPRONKLIKE RAAMGROOTTE 390x267.



AMENDMENTS WYSIGINGS		
NO.	NAME NAAM.	DATE DATUM.
1	E. Louw.	77-04-05

REDRAWN AND METRICATED
DRG. NO. WAS CEE -
1PB 5HT. 4
OORGETEKEN EN GEME-
TRISEER. TEK. NO. WAS
CEE-1PB VEL. 4
D.O. REF. YTY/17#18
TK-VERW.

DIMENSIONS: MILLIMETRES.
AFMETINGS: MILLIMETER.

MATERIAL - MATERIAAL
COPPER SHEET
KOPER, DUNPLAAT 6.3 THK.
D.K.
HALF HARD. SPEC. CME 33
HALFHARD. SPES.
STORES ITEM NO. 12/46634
MAGASYNITEM
OR TO SPEC. B.S. 2870
OF VOLG SPES.

DRN. GET.	E. P. Q.	GEN. TOLERANCES: LIN ±1 ANG. TOLERANCES: ANG/HOEK
TRCD. NGT.	H. v. VUUREN.	D.O. REF. TK-VERW.
CKD. NGS.	DATE DATUM.	ENG. IR.
CHIEF ELECTRICAL ENGINEER ELEKTROTEGNIESE HOOFINGENIEUR		W. L. KING JOHANNESBURG

PRESSURE PLATE,
CONTACT WIRE STRAIGHTENING DEVICE.
DRUKPLAAT.
TOESTEL VIR REGUIT. BUIG VAN RYDRAAD.

CEE-TW 33T
ASSY DRG./SAMES-TEK.
DRAWING NO. CEE
TW-340

Δ 2

Δ 3

Δ 4

Δ 4

Δ

Δ 3

Δ 2

10295857

ORIGINAL FRAME SIZE OORSPRONKLIKE RAAMGROOTTE 267x180				AMENDMENTS WYSIGINGS																																															
<table border="1"> <tr> <th>NO</th> <th>NAME NAAM.</th> <th>DATE DATUM</th> </tr> <tr> <td>1</td> <td>E. Louw</td> <td>77-04-03</td> </tr> </table>				NO	NAME NAAM.	DATE DATUM	1	E. Louw	77-04-03	REDRAWN, METRICATED AND DRG. NO. WAS CEE.1P8 SHEET 5. OORGETEKEN, GEMETRISEER EN TEK. NO. WAS CEE.1P8 VEL. 5. D.O. REF. Y77/17&18 TK-VERW.																																									
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<table border="1"> <tr> <td>CEE-TW-337.</td> <td>ASSY.DRG/SAMES-TEK.</td> </tr> <tr> <td>DRAWING NO</td> <td>CEE</td> </tr> <tr> <td>TEKENING</td> <td>TW-341.</td> </tr> </table>		CEE-TW-337.	ASSY.DRG/SAMES-TEK.	DRAWING NO	CEE	TEKENING	TW-341.																																												
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DRAWING NO	CEE																																																		
TEKENING	TW-341.																																																		

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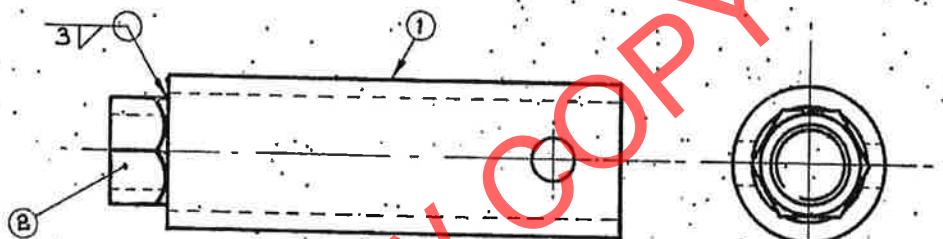
Δ
4

Δ
3

10295857

ORIGINAL FRAME SIZE 267x180
 OORSPRONKLIE RAAMGROOTTE

ITEM	DESCRIPTION/BESKRYWING	QTY: HVLD.	STORES NO. MAGASYN	DRG NO. CEE TEK.	AMENDMENTS WYSIGINGS
1	PIPE PYP	1		TW-344	NO. NAME DATE NAAM DATUM
2	NUT, STEEL, BLACK, HEX. SPEC. S.A.B.S. 135 M 16 MOER, STAAL, RU, SESK, SPES.	1	1/69661		1, E. Louw, 77-04-05



WELDING TO CONFORM TO S.W.S. 5135
 SWEISWERK MOET VOLDOEN AAN

ZINC COAT TO SPEC. S.A.B.S. 763
 SINKBEDEK VOLG. SPES.

DIMENSIONS: MILLIMETRES.
 AFMETINGS: MILLIMETER

DRN. E.P.Q. GET.	GEN. TOLERANCES LIN. ±1 ALG. TOLERANSIES ANG./HOEK
TRCD. BURENSBURG NGT.	D.O. REF. TK-VERW. —
CHK. NGS.	DATE DATUM 17-04-28
CHIEF ELECTRICAL ENGINEER ELEKTROTEGNIESE HOOFINGENIEUR S.A.S.	W.L. KING for ns. S.A.R. JOHANNESBURG

HANDLE.
 CONTACT WIRE STRAIGHTENING DEVICE.

HANDVATSEL.
 TOESTEL VIR REGUIT BUIG VAN RYDRAAD..

REDRAWN AND METRICATED. DRG. NO. WAS CEE-1P8 SHT. 6
 OORGETEKEN EN GEMETRISEER. TEK. NO. WAS CEE-1P8 VEL 6.
 D.O. REF. YTT/17&18 TK-VERW.

CEE-TW-337
 ASSY DRG./SAMESTEK

DRAWING NO. CEE
 TEKENING

TW-342

A4
 A4

△
3

△
4

△
4

△
3

10295857

ORIGINAL FRAME SIZE 267 x 180
OORSPRONKLIKE RAAMGROOTTE



AMENDMENTS. WYSIGINGS.	
No.	NAME, DATE. NAAM, DATUM.
1.	E. Louw 77-04-05

REDRAWN AND METRICATED DRG. NO. WAS CEE - 1PB SHT. 7 OORGETEKEN EN GEMETRISIEER. TEK. NO. WAS CEE - 1PB VEL. 7 D.O. REF. Y77/17418 TK-VERW.

B.S. 1726 PART 1 CAT. 2
DEEL 1 KAT. 2

ESSENTIAL DATA ESSENSIELE BESONDERHEDE	
NOMINAL WIRE DIAMETER. NOMINALE DRAAD-DEURSNEE	Ø 2,50
DIAMETER: INSIDE / OUTSIDE DIAMETER: BINNE / BUIITE	Ø 2,52
FORM OF END COILS. VORM VAN ENDKRONKELS	CLOSED AND GROUND TOE EN GEBLYP
TOTAL N° OF COILS (APPROX.) TOTALE AANTAL KRONKELS (NAAST)	11
LOAD AT BELASTING BY	
ADDITIONAL DATA ADISIONELE BESONDERHEDE	
FREE LENGTH VRYLENGTE	76
SOLID STRESS (COIL TO COIL) SOLE STRESS (KRONKEL TOT KRONKEL)	40% OF 556 MPa
N° OF WORKING COILS APPROX. AANTAL WERKKRONKELS NAASTENBY	9
PROTECTIVE FINISH BEWERMENDE AFWERKING.	ZINC COAT TO SPEC. S.A.B.S. 763 SINKBEDEK VOLG. SPES.

DIMENSIONS: MILLIMETRES.
AFMETINGS: MILLIMETERS

MATERIAL - MATERIAAL
SPRING STEEL Ø 2,50
VEERSTAAL
SPEC. CME 140
SPES.
OR TO SPEC. BS 1408 B
OF VOLG. SPES.

DRN. E.P.Q. GET.	GEN. TOLERANCES: LIN. ±1 ALG. TOLERANSIES: ANG/HOEK.	
TRCD. NGT. B.v.R.	D.O. REF. TK-VERW.	ENG. J.B.
CKD. NGS.	DATE. 17-04-88 DATUM.	W.L. KING

SPRING.
CONTACT WIRE STRAIGHTENING DEVICE.
VEER.
TOESTEL VIR REGUIT BUIG VAN RYDRAAD.

CEE-TW-337
ASSY DRG./SAMES-TEK
DRAWING NO. CEE
TEKENING
TW-343

A4. CHIEF ELECTRICAL ENGINEER
ELEKTROTEGNIESE HOOFINGENIEUR S.A.B. JOHANNESBURG.

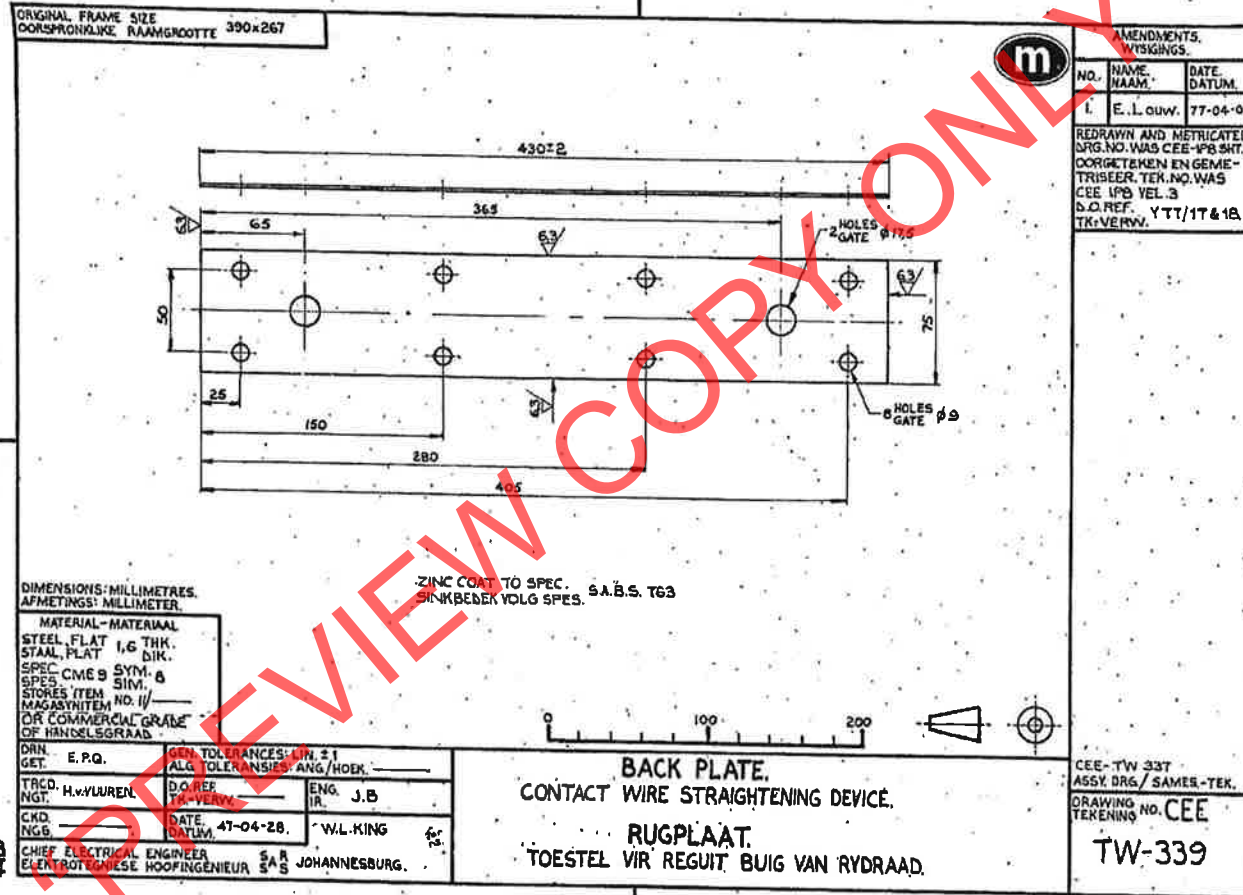
Δ
3

4

4

Δ
3

10295857



ORIGINAL FRAME SIZE
OORSKONKLIKE RAAMGROOTTE 390x267

AMENDMENTS, WYSKINGS.		
NO.	NAME, NAAM.	DATE, DATUM.
1.	E.L. duw.	77-04-05

REDRAWN AND METRICATED.
DRG. NO. WAS CEE-IP8-SHT.3
DORGETEKEN EN GEME-
TRISEER. TEK. NO. WAS
CEE IP8 VEL.3
S.O. REF. Y TT/17 & 18
TK-VERV.

DIMENSIONS: MILLIMETRES.
AFMETINGS: MILLIMETER.

MATERIAL - MATERIAAL
STEEL, FLAT 1,6 THK.
STAAL, PLAT 1,6 DIK.
SPEC. CME 9 SYM. 6
SPES. CME 9 SIM.
STORES ITEM NO. //
MAGASYNITEM NO. //
OR COMMERCIAL GRADE
OF HANDELSGRAAD.

ZINC COAT TO SPEC. S.A.B.S. T63
SINKBEDEK VOLG SPES.

DRN. GET.	E. P.Q.	GEN. TOLERANCES: UN. ± 1 ALG. TOLERANSIES: ANG/HOEK.	
TRCD. NGT.	H. v. WUREN	D.O. REF. TK-VERV.	ENG. IR. J. B.
CKD. NGB.		DATE DATUM 47-04-28.	W.L. KING
CHIEF ELECTRICAL ENGINEER ELEKTROTEGNIESE HOOFINGENIEUR		S.A.B.S. JOHANNESBURG.	

BACK PLATE.
CONTACT WIRE STRAIGHTENING DEVICE.
RUGPLAAT.
TOESTEL VIR REGUIT BUIG VAN RYDRAAD.

CEE-TW 33T
ASSY. DRG./SAMER-TEK.
DRAWING NO. CEE
TW-339

Δ 2

Δ 3

Δ

Δ 4

Δ 4

Δ

Δ 3

Δ 2