

NOTE
 MINIMUM OF 4 (FOUR) CRIMPS PER SIDE (EACH CRIMP = 50mm WIDE) ON ITEM 1.
 APPLY MAXIMUM NUMBER OF CRIMPS ON ITEM 3.

4	500mm ² AAC "SCORPION" OR 800mm ² AAC "BULL" CONDUCTOR	-	-	-
3	STEEL INNER SPLICE	"DEER"	1	-
		"LAPWING"	1	-
2	ACSR CONDUCTOR ("DEER" OR "LAPWING")	-	-	-
1	ALUMINIUM TENSION SPLICE	1	-	BBB3593
ITEM NO	DESCRIPTION	QTY	STORES ITEM NO	DRAWING NO

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DIMENSIONS : mm
 TOLERANCE : LIN± - ANG± -
 MATERIAL : -
 VERSION INFO : -

SCALE : 1:2
 ITEM NO : -

DO REF : CDO/2357
 ECP REF : -
 DRAWN : JR Anthony
 DESIGNED : -
 CHECKED : JD van Dyk

DATE: 12/2/2003

APPROVED
 AUTHORIZED

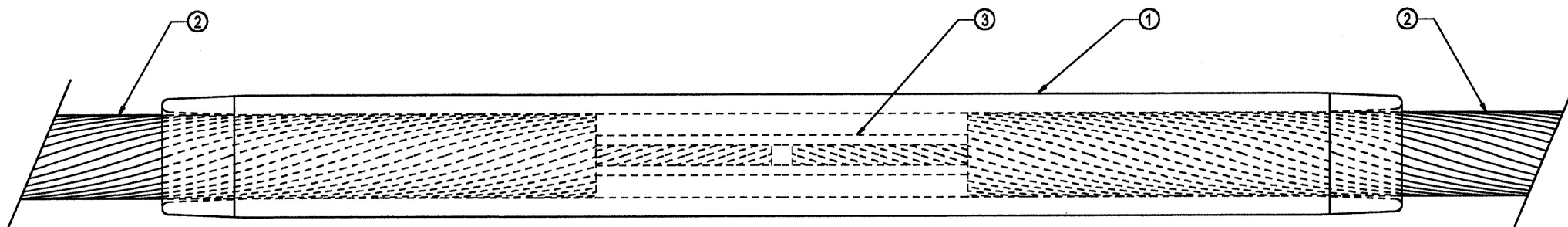
CENTRAL DRAWING OFFICE

MID- SPAN TENSION SPLICE ARRANGEMENT
 AAC 500mm² "SCORPION" WITH "DEER" ACSR
 OR AAC 800mm² "BULL" WITH "LAPWING" ACSR

SPOORNET

BBB3591
 VERSION 1

A3



NOTE
 MINIMUM OF 4 (FOUR) CRIMPS PER SIDE (EACH CRIMP = 50mm WIDE) ON ITEM 1.
 APPLY MAXIMUM NUMBER OF CRIMPS ON ITEM 3.

3	STEEL INNER SPLICE	"DEER"	1	-	BBB3594
		"LAPWING"	1	-	BBB3595
2	ACSR CONDUCTOR ("DEER" OR "LAPWING")	-	-	-	-
1	ALUMINIUM TENSION SPLICE	-	-	-	BBB3593
ITEM NO	DESCRIPTION	QTY	STORES	ITEM NO	DRAWING NO

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DIMENSIONS : mm
 TOLERANCE : LIN± - ANG± -
 MATERIAL : -
 VERSION INFO : -

SCALE : 1:2
 ITEM NO : -

DO REF : CDO/2357
 ECP REF : -
 DRAWN : JR Anthony
 DESIGNED : -
 CHECKED : JD van Dyk

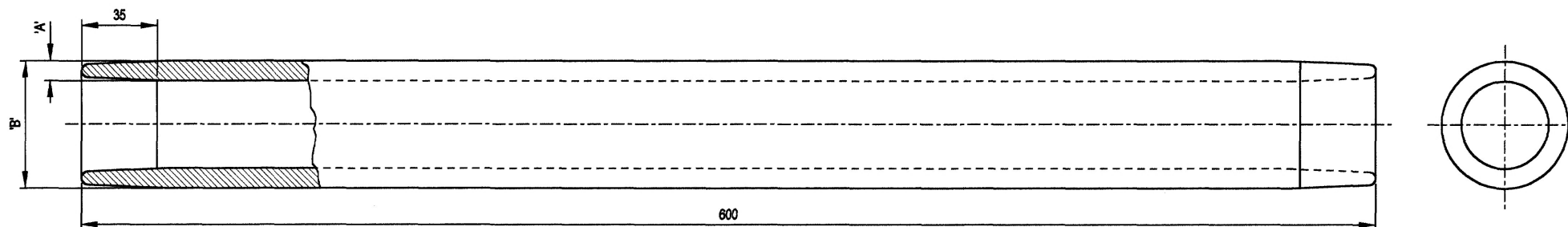
DATE: 12/2/2003

APPROVED
 AUTHORIZED

CENTRAL DRAWING OFFICE
 MID- SPAN TENSION SPLICE ARRANGEMENT
 ACSR CONDUCTORS
 "DEER" WITH "DEER" OR "LAPWING" WITH "LAPWING"

SPOORNET
 BBB3592
 VERSION 1
 A3

CONDUCTOR	"DEER" TO "DEER" (NOTE 3)	"LAPWING" TO "LAPWING" (NOTE 3)	"DEER" TO 500mm ² AAC (NOTE 3)	"LAPWING" TO 800mm ² AAC (NOTE 3)
DIMENSION 'A'	10,72 ± 0,45	9,1 ± 0,45	10,72 ± 0,45	9,1 ± 0,45
DIMENSION 'B'	53,98 ± 0,2	58,72 ± 0,2	53,98 ± 0,2	58,72 ± 0,2
INNER SPLICE	DRG NO BBB3594 (NOTE 3)	DRG NO BBB3595 (NOTE 3)	DRG NO BBB3596 (NOTE 3)	DRG NO BBB3597 (NOTE 3)
STORES ITEM NO	54/33469	54/33470	54/33482	54/33494



NOTES

1. FOR ARRANGEMENT DETAIL OF "DEER" TO "DEER" OR "LAPWING" TO "LAPWING" SEE DRG NO BBB3592.
2. FOR ARRANGEMENT DETAIL OF 500mm² OR 800mm² AAC TO "DEER" OR "LAPWING" ACSR SEE DRG NO BBB3591.
3. EACH SPLICE KIT MUST BE ACCOMPANIED BY THE APPROPRIATE INNER SPLICE.
4. FOR TENSION SPLICE OR CRIMP LENGTH SEE DRG NO CEE-TNB-29.

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DIMENSIONS : mm SCALE : 1 : 2
TOLERANCE : LIN ± 0,5 ANG ± - ITEM NO : -
MATERIAL : ALUMINIUM TO SPEC CEE.0038.
VERSION INFO : -

DO REF : CDO/2357
ECP REF : -
DRAWN : JR Anthony
DESIGNED : -
CHECKED : JD van Dyk

DATE: 12/2/2003

APPROVED
AUTHORISED

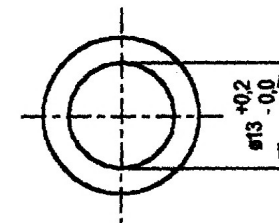
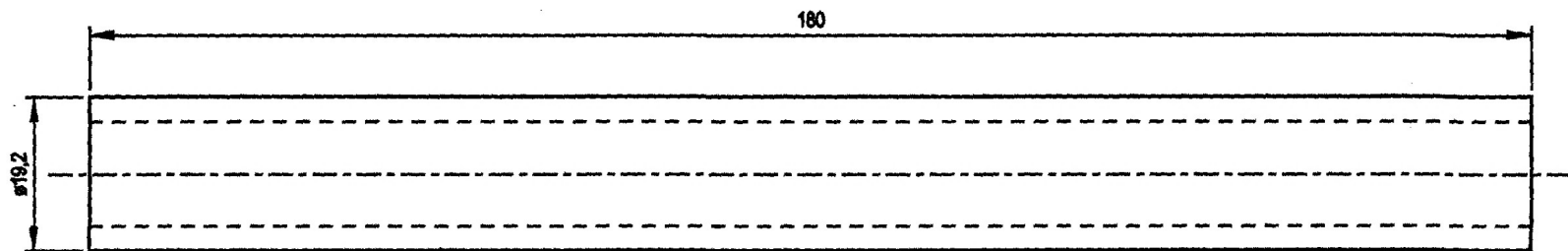
CENTRAL DRAWING OFFICE

TENSION SPLICE (600mm LONG) FOR
ACSR TO ACSR OR ACSR TO AAC CONDUCTORS

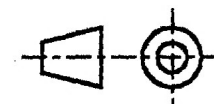
SPOORNET

BBB3593
VERSION 1

A3



NOTE
MINIMUM OF 3 (THREE) CRIMPS (EACH CRIMP = 25mm WIDE).



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DIMENSIONS : mm
TOLERANCE : LIN $\pm 0,5$ ANG $\pm$ -
MATERIAL : STEEL, TUBE, 19,2 O.D. AND 13 I.D.
VERSION INFO : -

SCALE : 1 : 1

ITEM NO : -

DO REF : CDO/2357

ECP REF : -

DRAWN : JR Anthony

DESIGNED : -

CHECKED : JD van Dyk

DATE: 12/2/2003

[Signature]
APPROVED
AUTHORISED

CENTRAL DRAWING OFFICE

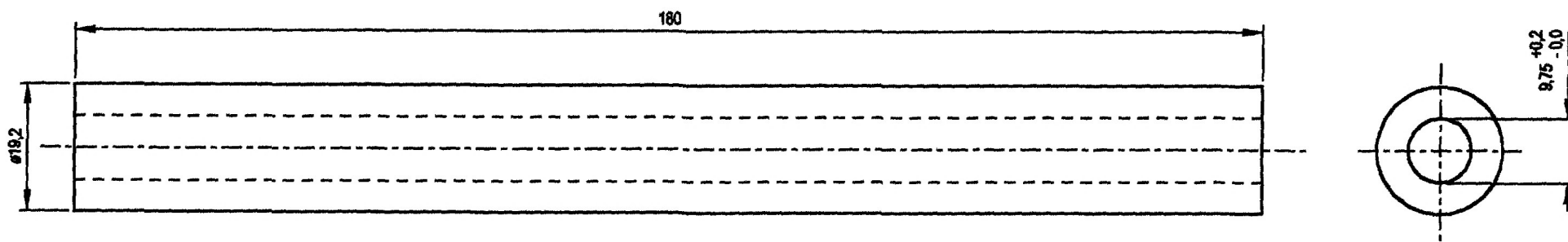
INNER SPLICE, MID- SPAN
STEEL REINFORCING
"DEER" ACSR CONDUCTOR

SPOORNET

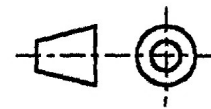
BBB3594

VERSION 1

A4



NOTE
MINIMUM OF 3 (THREE) CRIMPS (EACH CRIMP = 25mm WIDE).



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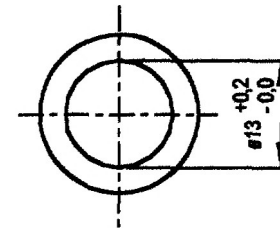
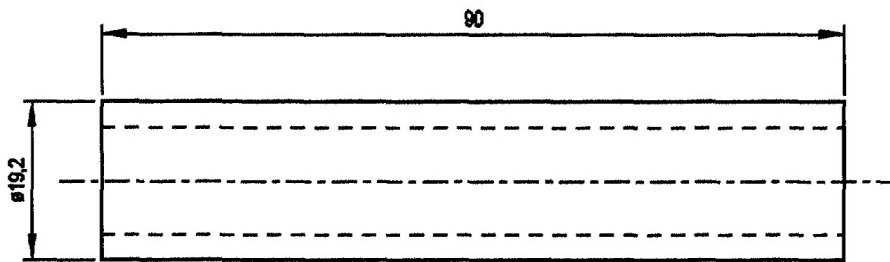
DIMENSIONS . mm SCALE . 1 : 1
TOLERANCE . LIN $\pm 0,5$ ANG $\pm -$ ITEM NO . -
MATERIAL : STEEL, TUBE, $\phi 19,2$ O D. AND $\phi 9,75$ I D.
VERSION INFO . -

DO REF CDO/2357
ECP REF -
DRAWN JR Anthony
DESIGNED -
CHECKED D van Dyk

DATE 12/2/2003
APPROVED
AUTHORISED

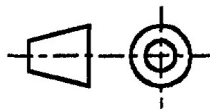
CENTRAL DRAWING OFFICE
INNER SPLICE, MID- SPAN
STEEL REINFORCING
"LAPWING" ACSR CONDUCTOR

SPOORNET
BBB3595
VERSION 1



NOTE

MINIMUM OF 3 (THREE) CRIMPS (EACH CRIMP = 25mm WIDE).



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DIMENSIONS : mm
TOLERANCE : LIN $\pm 0,5$ ANG $\pm -$
MATERIAL : STEEL, TUBE, Ø19,2 O.D. AND Ø13 I.D.
VERSION INFO :-

SCALE : 1:1

ITEM NO: -

DO REF : CDO/2357
ECP REF : -
DRAWN : JR Anthony
DESIGNED : -
CHECKED : JD van Dyk

DATE: 12/2/2003

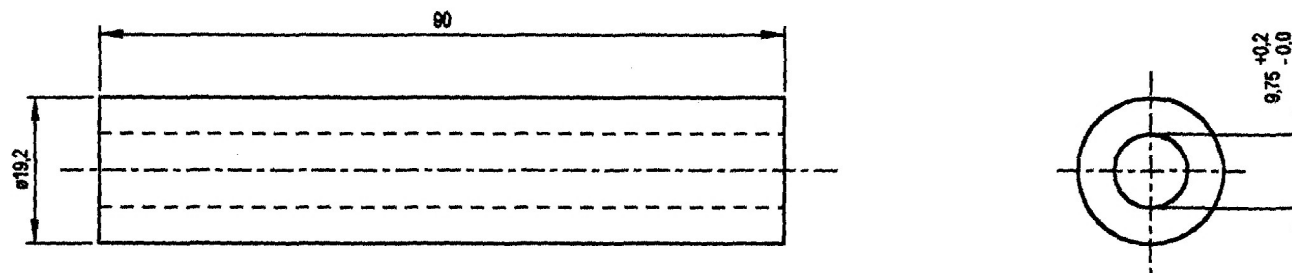
APPROVED
AUTHORISED

CENTRAL DRAWING OFFICE
INNER SPLICE
STEEL REINFORCING
"DEER" ACSR CONDUCTOR

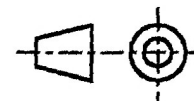
SPOORNET

BBB3596

VERSION 1



NOTE
MINIMUM OF 3 (THREE) CRIMPS (EACH CRIMP = 25mm WIDE).



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DIMENSIONS : mm SCALE : 1:1
TOLERANCE : LIN $\pm 0,5$ ANG $\pm -$ ITEM NO: -
MATERIAL : STEEL, TUBE, ø19,2 O.D. AND ø9,75 I.D.
VERSION INFO :-

DO REF : CDO/2357
ECP REF : -
DRAWN : JR Anthony
DESIGNED : -
CHECKED : JD van Dyk

DATE: 12/2/2003
APPROVED
AUTHORISED

CENTRAL DRAWING OFFICE
INNER SPLICE
STEEL REINFORCING
"LAPWING" ACSR CONDUCTOR

SPOORNET

BBB3597
VERSION 1

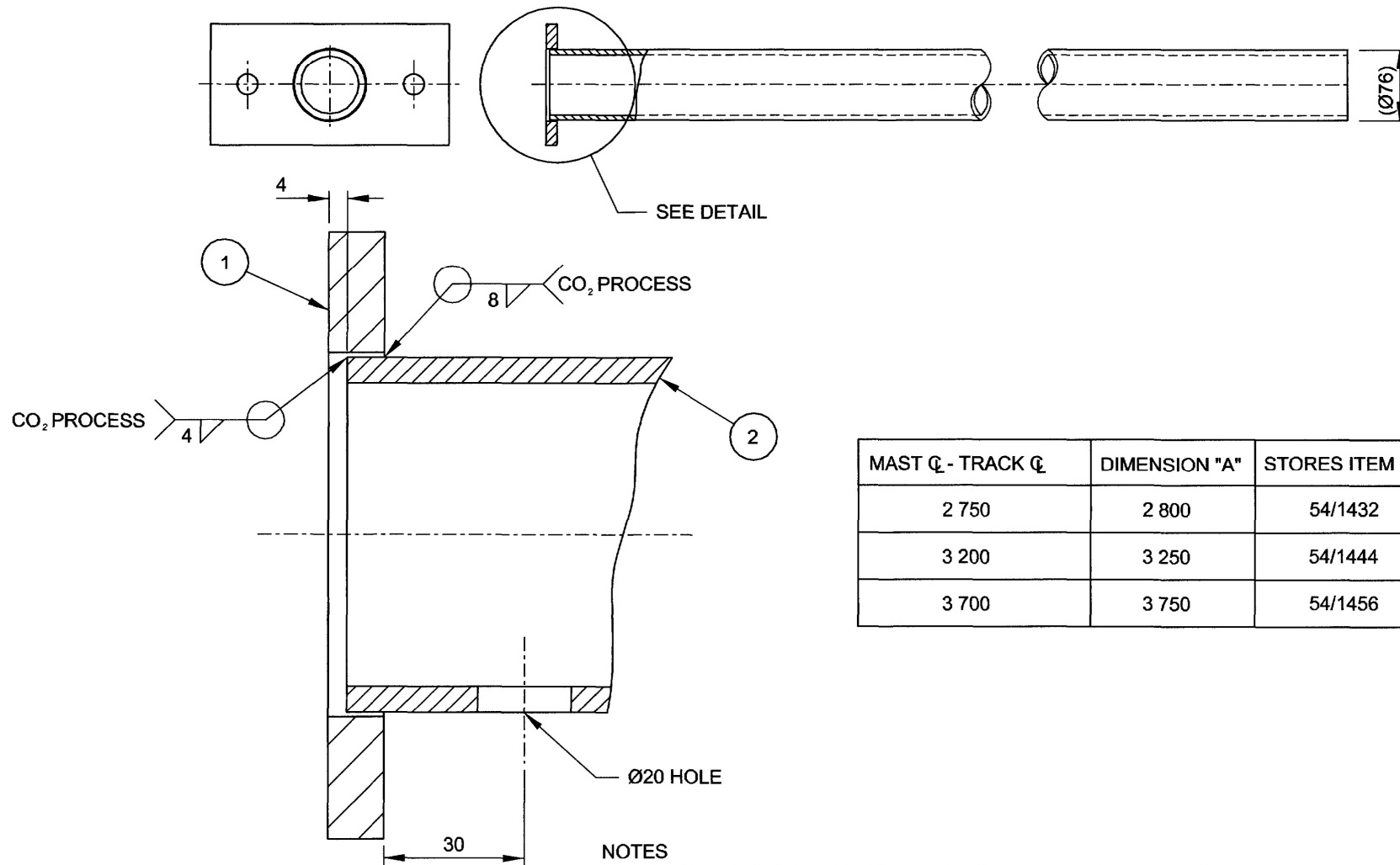
A4

ITEM	DESCRIPTION	QTY	STORES ITEM NO	DRG NO CEE-	AMENDMENTS		
1	BASE PLATE	1		TMFB-134	NO	NAME	DATE
2	PIPE, STEEL, Ø65 x 5,5 (MAX) WALL THK x "A" LG TO SPEC SABS 62	1	13/1261		10	JP du PLESSIS	95-08-28

REVISED, NOTES ADDED.
DO REF: T95/048

11 *[Signature]* 30/6/2005

ITEM 2; "HEAVY CLASS"
ADDED AND SPEC
DESCRIPTION REVISED.
ECP REF: 2002-043
DO REF: CDO/728



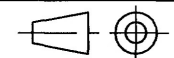
MAST $\varnothing$ - TRACK $\varnothing$	DIMENSION "A"	STORES ITEM NO
2 750	2 800	54/1432
3 200	3 250	54/1444
3 700	3 750	54/1456

DETAIL
SCALE 1:1

NOTES

1. FOR JOINING OF CANTILEVER TUBE SEE DRG NO CEE-TMC-101.
2. WELDING TO CONFORM TO BS 5135.
3. ZINC COAT TO SPEC SABS ISO 1461 FOR CONDITIONS IN SITU AFTER WELDING.

DIMENSIONS: mm
SCALE: 1:5



A3

DRAWING NO CEE-
TMC-41

SHEET - OF -

DO REF: Y75/10	GEN TOL: LIN± 0,5	ANG± -
DRN: J D v DYK	CKD: _____	DATE: 75-07-15
ENG: _____	F H PIENAAR	for CHIEF ENG

CENTRAL DRAWING OFFICE



SPOORNET

TUBULAR CANTILEVER

203 x 152 & 229 x 178 I-MASTS

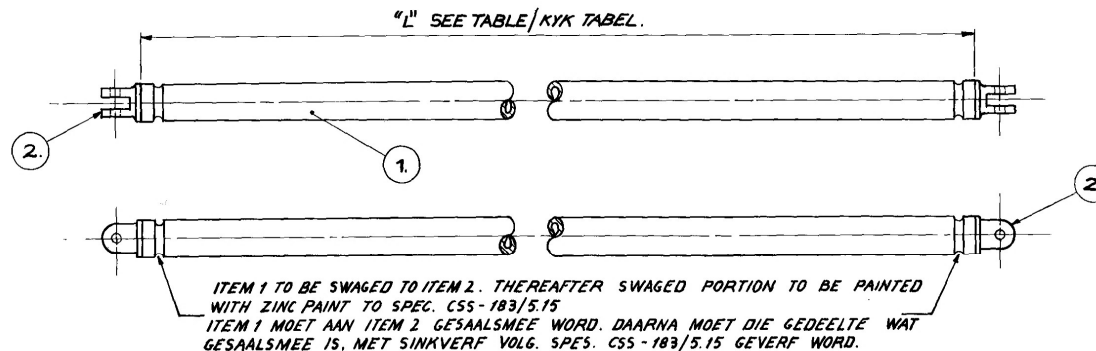
ITEM.	DESCRIPTION ~ BESKRYWING.	QTY. HWLD.	STORES MAGASYN NO.	DRG. NO. CEE- TEK.	AMENDMENTS WYSIGINGS		
					NO.	NAME NAAM	DATE DATUM
1.	TUBE, STEEL. Ø48 O.D. WALL THICKNESS 4 mm. PYP, STAAL. Ø48 BUITE-Ø, WANDDIKTE 4 mm. TO. GRADE 340 ERW. VOLG. SABS 657 GRAAD 340 ERW.	1.	(M) 54/7303	—	1.	T. HUMAN	82-09-27.
2.	CLEVIS FITTING, DEAD END. VURKTOEBEHORE, DOOIE ENT.	2.	—	TN-172.			

TYPE. TIPE.	MAST TO TRACK CRS. MAS-NA SPOOR- HARTLYNE.	PULL-OFF CANTILEVER TREK-VRYDRAER LENGTH OF TUBE "L". LENGTE VAN PYP	PUSH-PULL-OFF TREK-STOOTVRYDRAER LENGTH OF TUBE "L". LENGTE VAN PYP
I	2750	1600	—
II		—	2730
III	3200	1900	—
IV		—	3030
V	3700	2230	—
VI		—	3360

FINISH - AFWERKING
ZINC COAT TO SPEC. SABS 763
SINKBEDEK VOLG. SPE'S.

ITEM 1: STORE'S ITEM NO.
ADDED. / MAGASYNITEM NO.
BYGEVOEG.
FINISH, AND NOTE RE.
PAINTING ADDED.
AFWERKING, EN OPM. I.V.M.
VERF BYGEVOEG.
D.O. REF.
TK-VERW. T1/81/74.

2. 85-02-12



DIMENSIONS MILLIMETRES
AFMETINGS MILLIMETER



DRN GET	T. HUMAN.	GEN TOLERANCES: LIN: 3 ALG. TOLERANSIES: ANGIOEK: 2°	
TRCD NGT.	A. ACKERMAN	D.O. REF. TK-VERW. T80/65	ENG: IR
CKD NGS	R.A. Mc MILLAN	DATE DATUM 80-02-13	G.A. WILLIAMS. for ns
CHIEF ELECTRICAL ENGINEER JOHANNESBURG. ELEKTRIESE HOOFINGENIEUR			
SOUTH AFRICAN TRANSPORT SERVICES SUID-AFRIKAANSE VERVOERDIENSTE			

REGISTERING ARM ASSEMBLY.

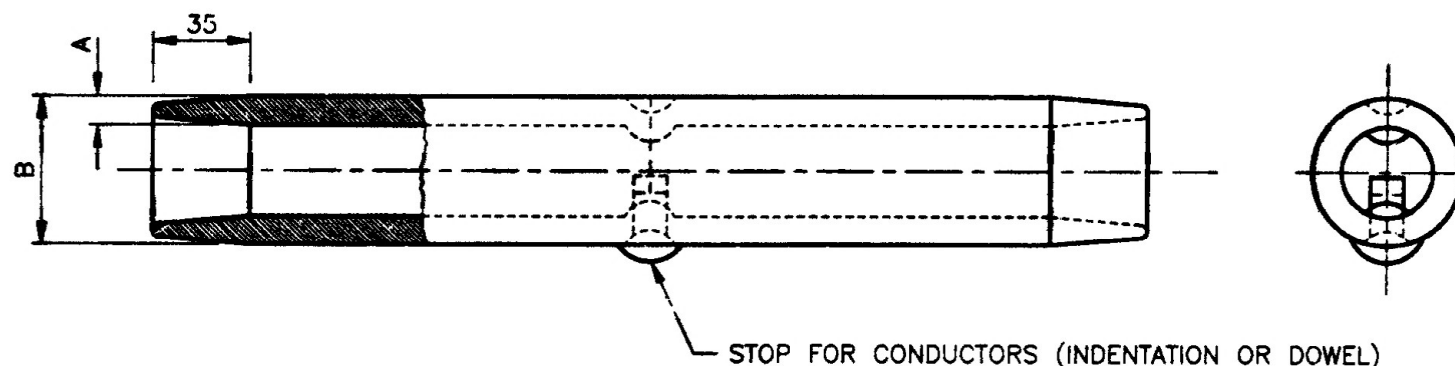
REGISTREERARMSAMESTEL.

CEE-TMG-84.
ASSY DRG / SAMEST- TEK.
DRAWING NO. CEE-
TEKENING

TMHH-2.

CONDUCTOR	160mm ²	250mm ²	323mm ²	500mm ²	800mm ²
DIMENSION A	6,0 ± 0,3	6,35 ± 0,31	6,1 ± 0,3	10,72 ± 0,45	9,1 ± 0,45
DIMENSION B	30,5 ± 0,14	33,32 ± 0,15	38,0 ± 0,16	53,98 ± 0,2	58,72 ± 0,2
STORES ITEM NO	_____	_____	_____	_____	_____

AMENDMENTS		
NO	NAME	DATE
1	J.V.T.	94-11-03
REDRAWN & REVISED DRAWING NO WAS CEE-TN-72. DO REF T94/054		



NOTES

1. FOR TENSION SPLICE OR CLAMP LENGTH SEE DRG NO CEE-TNB-29.
2. TO BE READ IN CONJUNCTION WITH SPECIFICATION NO. CEE.0038.

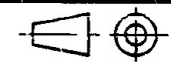
DO REF: N12/70	GEN TOL: LIN± 0,5	ANG± -
DRN: J S	CKD: I T	DATE: 70-05-12
ENG: K KALMER	T BROOK	for CHIEF ENG

INFRASTRUCTURE
(ELECTRICAL)

 SPOORNET

TENSION SPLICE FOR ALUMINIUM CONDUCTORS

D.MENSION: mm
SCALE: 1:2

 A3

DRAWING NO CEE-
TNB-24

SHEET — OF —

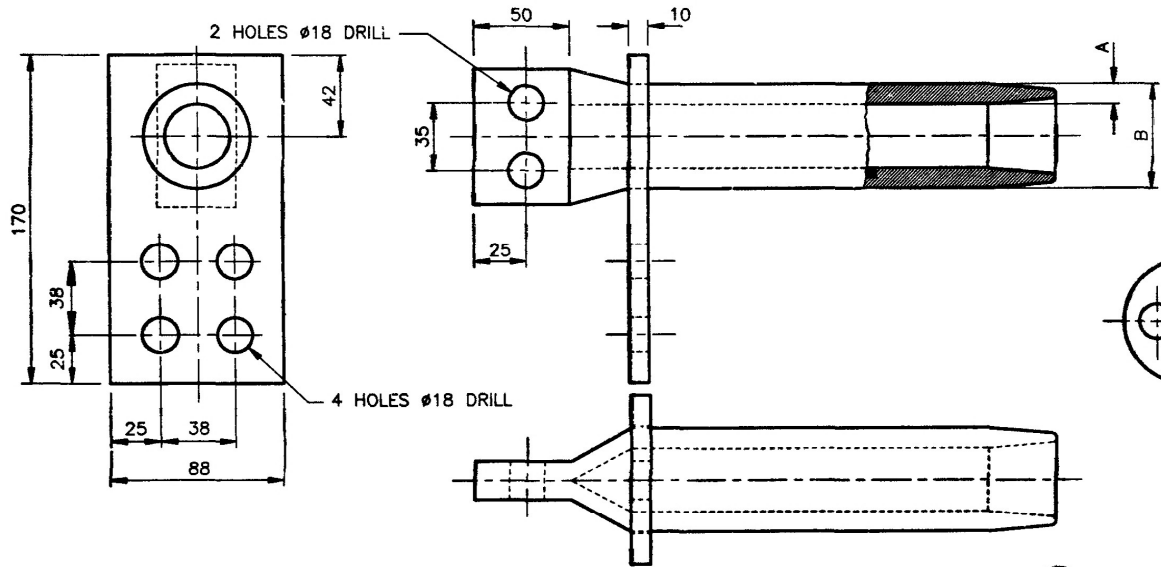
10000658

CONDUCTOR	160mm ²	250mm ²	323mm ²	500mm ²	800mm ²
DIMENSION A	6,0 ± 0,3	6,35 ± 0,31	6,1 ± 0,3	10,72 ± 0,45	9,1 ± 0,45
DIMENSION B	30,5 ± 0,14	33,32 ± 0,15	38,0 ± 0,16	53,98 ± 0,2	58,72 ± 0,2
STORES ITEM NO				54/981	54/1015

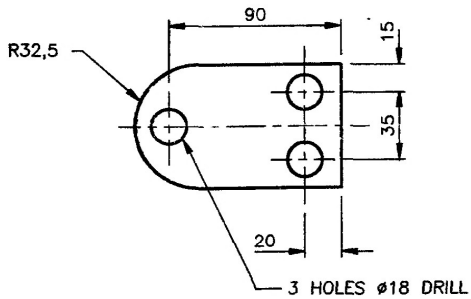
ITEM	DESCRIPTION	QTY	STORES ITEM NO	DRG NO CEE--
1	STEEL, FLAT 65 X 6 X 107 LG (SEE NOTE 2)	2		
2	CLAMP (SEE NOTE 3)	1		
3	PIN, STRAIGHT, HEADED, Ø16 (SEE NOTE 2)	1		

AMENDMENTS		
NO	NAME	DATE
1	J.V.T.	94-11-03

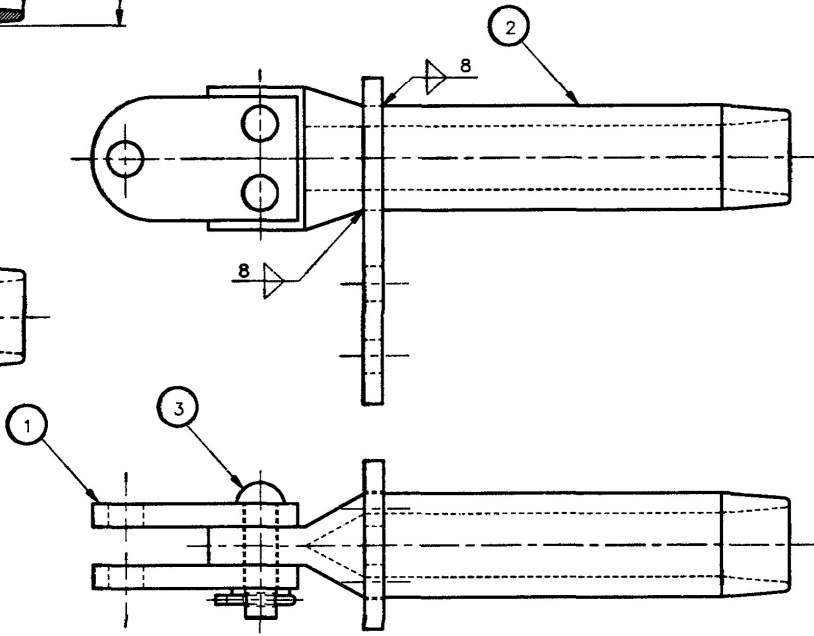
REDRAWN & REVISED
DRAWING NO WAS
CEE-TN-91.
DO REF T94/054



ITEM 2



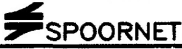
ITEM 1



ASSEMBLY

- NOTES
1. FOR TENSION SPLICE OR CLAMP LENGTH SEE DRG NO CEE-TNB-29.
 2. ITEM 1 & 3 ZINC COAT TO SABS 763.
 3. TO BE READ IN CONJUNCTION WITH SPECIFICATION CEE.0038.

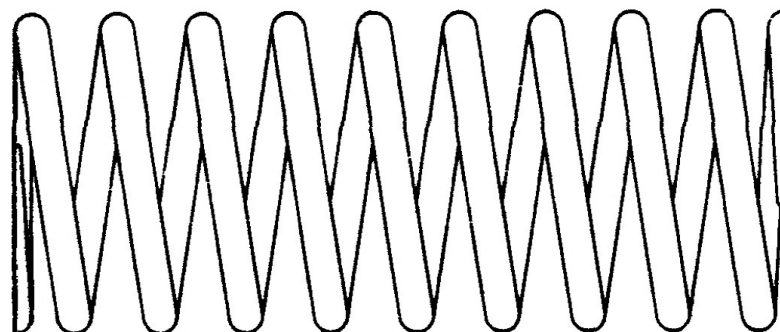
DO REF: C254/72	GEN TOL: LIN± 1	ANG± -
DRN: P MAURER	CKD: N LITTLE	DATE: 73-10-19
ENG: F PIENAAR	F PIENAAR	for CHIEF ENG
INFRASTRUCTURE (ELECTRICAL)		 SPOORNET



STRAIN CLAMP ALUMINIUM FEEDER WIRE

DIMENSIONS: mm	
SCALE: 1:2	
	A2
DRAWING NO	CEE-TNB-25
SHEET - OF -	

10000666



ESSENTIAL DATA

NOMINAL WIRE DIAMETER (SEE NOTE 1)	Ø 30
DIAMETER: INSIDE	Ø 225 ⁺³ ₀
FREE LENGTH	685 ⁺¹⁰ ₀
NUMBER OF COILS (APPROX)	9,5
FORM OF END COILS	CLOSED AND GROUND
LOAD RANGE	0 - 24 kN
RATE	51 N/mm
PROTECTIVE FINISH	ONE PRIMER COAT SIGMACOVER ALUPRIMER OR EQUAL ONE INTERMEDIATE COAT SIGMACOVER CM MIOCOAT OR EQUAL ONE TOP COAT SIGMADUR GLOSS OR EQUAL

NOTES

1. Ø 30 BLACK BAR TO BE PEELED OR GROUND DOWN TO Ø 28,5 ^{+0,5}₀ BEFORE MANUFACTURE OF SPRING.
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH SPECIFICATION CEE.0219.

MATERIAL: ITEM NO 11/- , SPRING STEEL WIRE Ø 30 TO SPEC SAE 5160 OR CME 148 COMPOSITION A

DO REF: C27/71 GEN TOL: LIN± 1 ANG± -
 DRN: J JACKSON CKD: I THOMPSON DATE: 73-01-09
 ENG: K KALMER TC BROOK for CHIEF ENG

INFRASTRUCTURE
(ELECTRICAL)



HELICAL COMPRESSION SPRING

CONTACT WIRE SPRING TENSIONING DEVICE

AMENDMENTS

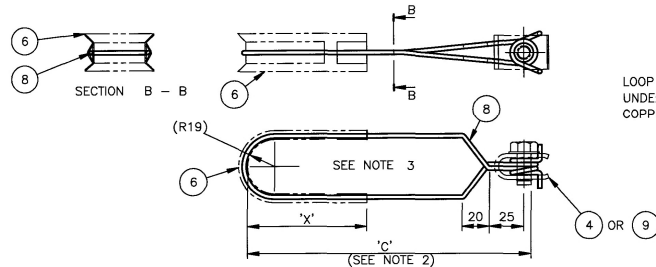
NO	NAME	DATE
1	W BRIGHT	95-03-31
DRG NO WAS CEE-TN-391 PROTECTIVE FINISH & SPEC REVISED. DO REF: G95/007.		
2	W BRIGHT	95-09-06
MATERIAL SPEC REVISED. DO REF: G95/007.		

DIMENSION: mm
SCALE: 1:5

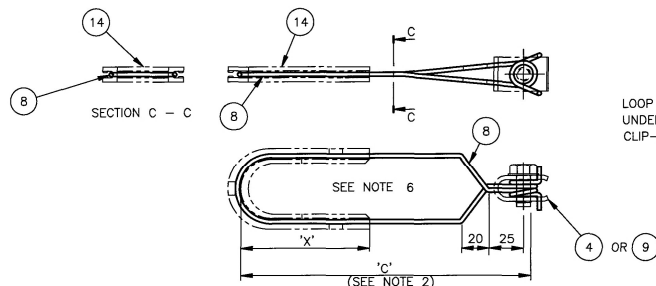


DRAWING NO CEE-
TNB-30

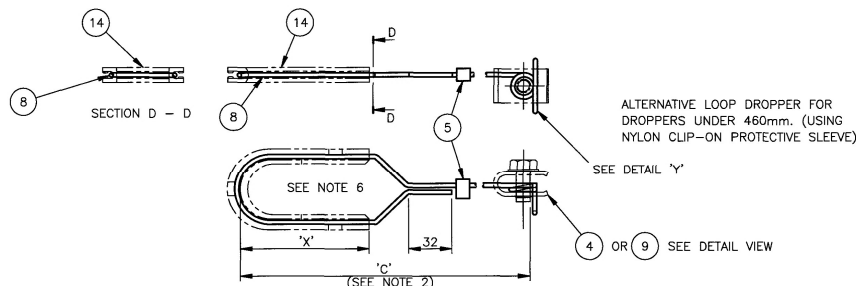
SHEET — OF —



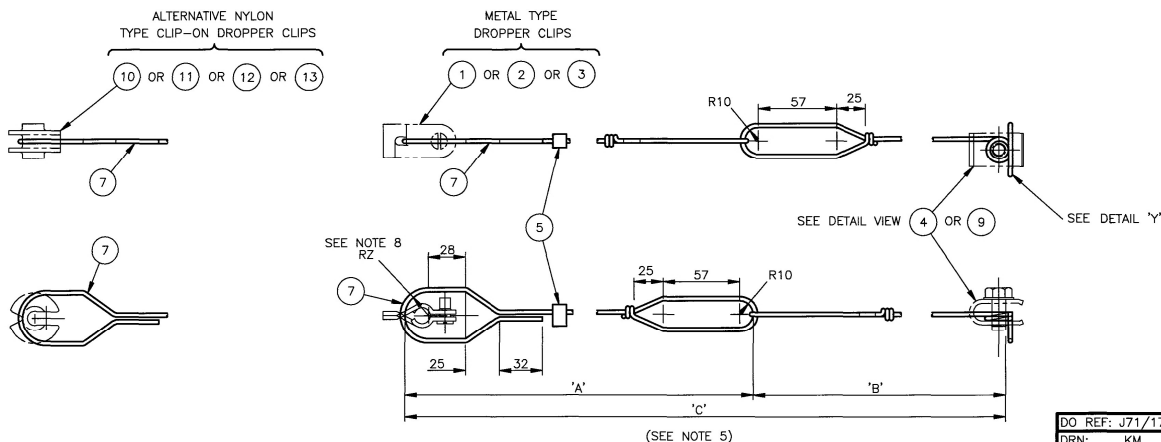
LOOP DROPPER FOR DROPPERS
UNDER 460mm. (USING
COPPER PROTECTIVE SLEEVE)



LOOP DROPPER FOR DROPPERS
UNDER 460mm. (USING NYLON
CLIP-ON PROTECTIVE SLEEVE)

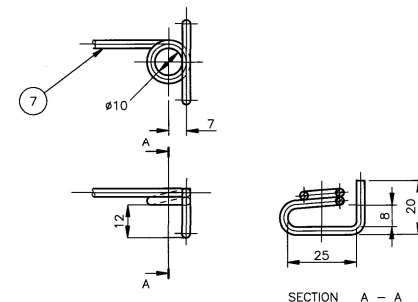


ALTERNATIVE LOOP DROPPER FOR
DROPPERS UNDER 460mm. (USING
NYLON CLIP-ON PROTECTIVE SLEEVE)

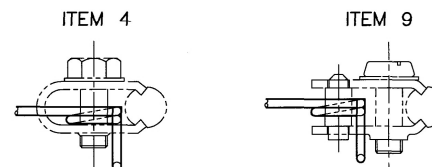


(SEE NOTE 5)

ITEM	DESCRIPTION	QTY	STORES ITEM NO	DRG NO CEE-	AMENDMENTS
1	DROPPER CLIP, 80 AND 100mm ² Cu CATENARY (SEE NOTE 4)	-	-	TND-36	NO NAME DATE
2	DROPPER CLIP, 160mm ² Cu CATENARY (SEE NOTE 4)	-	54/588	TN-344	1 DE VILLIERS 91-07-08
3	DROPPER CLIP, 250mm ² Cu CATENARY (SEE NOTE 4)	-	-	TN-417	THIS DRG WAS PART OF
4	CONTACT WIRE CLIP, 161mm ² Cu CONTACT WIRE (SEE NOTE 4)	-	54/17312	TND-16	DRG NO CEE-TV-32 &
5	COPPER TUBE, #10 O.D.x1 WALL THKx10L TO SABS 460 TABLE 2 CLASS 3	1	-	-	CEE-TV-50.
6	PROTECTION SLEEVE (SEE NOTE 4)	1	-	TN-46	ITEMS 10,11,12 & 13
7	LINK DROPPER, HD COPPER, #4mm	1	61/11357	-	ADDED. ITEM 7: DIM 28
8	LOOP DROPPER, HD COPPER, #4mm	1	61/11357	-	WAS 64, R17,5 WAS
9	CONTACT WIRE CLIP, 161mm ² Cu CONTACT WIRE (OLD TYPE CLIP)(SEE NOTE 4 AND 9)	-	-	TND-22	R19.
10	CLIP-ON DROPPER CLIP, 80mm ² Cu CATENARY (SEE NOTE 4)	-	54/6840	TND-5	ITEM 5 WAS SLEEVE,
11	CLIP-ON DROPPER CLIP, 100mm ² Cu CATENARY (SEE NOTE 4)	-	54/16861	TND-5	DRG NO CEE-TX-79.
12	CLIP-ON DROPPER CLIP, 160mm ² Cu CATENARY (SEE NOTE 4)	-	54/16836	TND-5	DO REF: T91/013
13	CLIP-ON DROPPER CLIP, 250mm ² Cu CATENARY (SEE NOTE 4)	-	54/16848	TND-5	2 J SWIEGERS 91-08-01
14	PROTECTIVE SLEEVE, CLIP-ON TYPE (SEE NOTE 4)	-	54/17070	TND-11	DIM 'A' & 'C'



DETAIL 'Y'
(SCALE 1:1)



DETAIL VIEW OF CONTACT WIRE CLIPS
(SCALE 1:1)

NOTES

1. IMPERIAL DROPPER CHART, FOR BASIC 220' SPAN WAS DRG NO CEE-TV-9. FOR CONVERSION OF DRG NO CEE-TV-9 TO METRIC SEE DRG NO CEE-TVC-17.
2. FOR SPECIAL CASES WHEN DIMENSION 'C' IS LESS THAN 140, DIMENSION 'X' MAY BE REDUCED BY UP TO 20mm.
3. FOR ASSEMBLY ON CATENARY WITH PROTECTION SLEEVE SEE DRG NO CEE-TP-14.
4. ITEMS 1 TO 4, 6 AND 9 TO 14 DO NOT FORM PART OF THE DROPPERS AND ARE SUPPLIED SEPARATELY. THEY ARE SHOWN FOR CLARITY ONLY.
5. FOR DIMENSIONS A, B AND C SEE DROPPER CHART DRG NO CEE-TVC-16 OR DRG NO CEE-TVC-17 (FOR METRIC CONVERSIONS).
6. WHEN ITEM 14 IS USED INSTEAD OF ITEM 6, NO ADDITIONAL COMPONENTS (eg SLIDING SLEEVES etc) ARE REQUIRED FOR ASSEMBLY ON CATENARY.
7. FOR MAINTENANCE PURPOSES ONLY.
8. RZ TO BE 13.5mm FOR DROPPERS USED ON 80mm², 100mm² AND 160mm² CATENARY WIRES. RZ TO BE 17.5mm FOR DROPPERS USED ON 250mm² CATENARY WIRES.
9. WHEN DROPPER CLIP DRG NO. CEE-TND-22 IS USED SUBTRACT 15mm FROM DIMENSIONS A AND C ON DRG NO. CEE-TVC-16 OR CEE-TVC-17 (FOR METRIC CONVERSIONS).

DO REF: J71/174	GEN TOL: LIN±	ANG±
DRN: KM	CKD: DATE: 72-05-16	
ENG: PIENAAR	for CHIEF ENG	
CENTRAL DRAWING OFFICE INFRASTRUCTURE (ELECTRICAL)	SPOORNET	

DROPPER DETAIL

3kV DC FIXED CANTILEVER
25kV AC FIXED CANTILEVER

DIMENSIONS:mm
SCALE: 1:2

A1
DRAWING NO CEE-
TND-9
SHEET — OF —

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CONSTRUCTION CO. LTD.

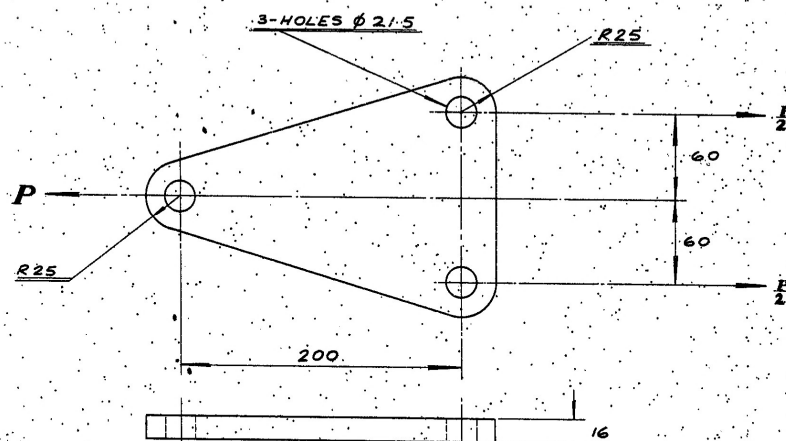
NOTE
ALL DIMENSIONS IN MILLIMETRES

MAXIMUM PERMISSIBLE WORKING LOAD

$P = 4.9 \text{ kN}$

FACTOR OF SAFETY = 2.5

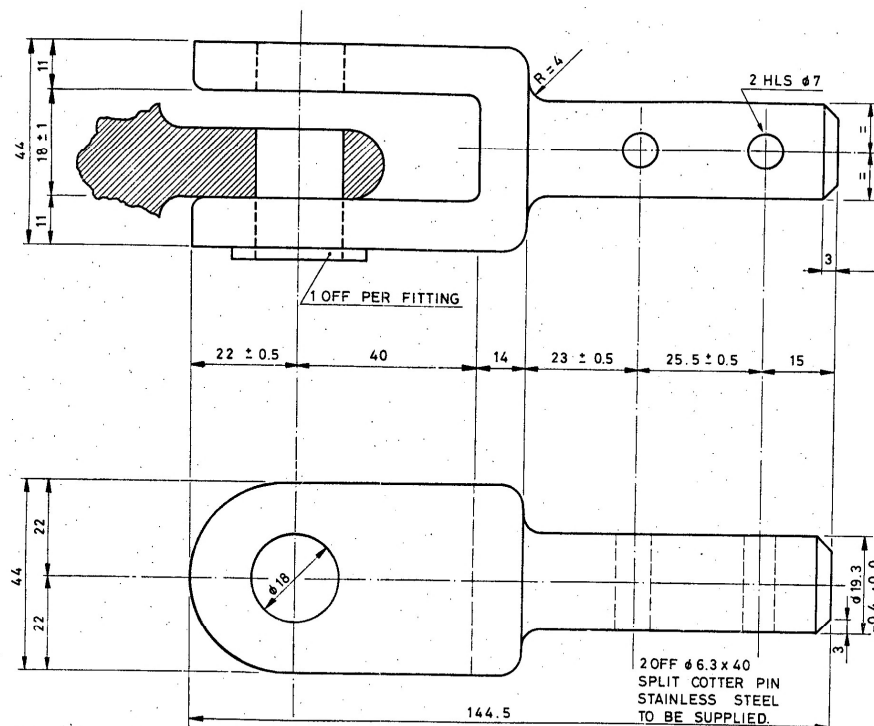
CAT. No.	144/10/1
MATL.	STEEL
SPEC.	OEE/156/025/CAT.7
FINISH	GALVANISED
SPEC.	OEE/156/033/CAT.3
MASS	3.2 Kg



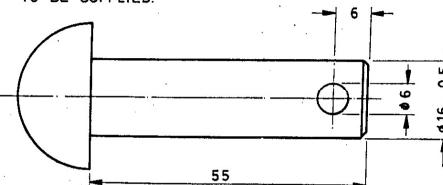
CONTRACT NO. EW. 353.

REVISION	DATE	INITIALS	DESCRIPTION OF CHANGE	DATE	INITIALS
DRAWN	16.9.75	S.T.R.	BRITISH INSULATED CALLENDER'S		
CHECKED	18.9.75	A.D.H.	CONSTRUCTION CO. LTD. KIRKBY		
TRACED					
SCALES	1:2.5	TITLE	TERMINATING PLATE (NON COMPENSATING)	SAR/SAS DRG/TEK. No.	CCE-TZ-1-124 SMT. 7.
			ERMELO-VRYHEID 25KV AC	DRAWING No.	SEV/124/4/1A3

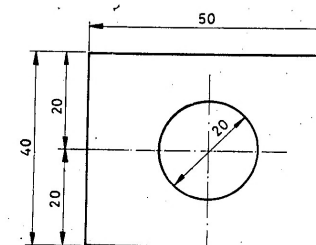
BICC



TO BE MADE FROM STANDARD SNAP HEAD RIVET.
HUMPBACK STAINLESS STEEL PINS SIZE $\phi 5 \times 30$
TO BE SUPPLIED.



ITEM 1 - ONE OFF FOR ITEM 2



PACKING WASHER ITEM 5 MADE OF 26 SWG (0.457mm)
STEEL GALVANISED TO SABS. 763 AFTER FABRICATION.

B.T. 14.

CEE - TZ - 2 - 6 SHT 13

Notes:
MATERIAL: MALLEABLE CAST IRON TO B.S. 309:1958 SPECIFICATION. GALVANISED TO S.A.B.S. 763.

Drawn <i>Spiby</i>	Date 22.8.77	Checked G. H.	Approved G. H.
Client: South African Railways Contract No. EW 347 Industrial Electrical Co. (Pty.) Ltd.			
Project: Brits-Thabazimbi 25 kV - 50 Hz Electrification			
Title: B.T.10.14. Details of Ferrous Fittings for Steady & Registration Arms.			

BRIAN COLQUHOUN, HUGH O'DONNELL & PARTNERS
CONSULTING ENGINEERS AND
ENGINEERING MANAGEMENT CONSULTANTS
4th Floor, Total House
209 Smit str. Jhb. Tel. 724-8372

Drawing No. 2066/E/6/12 SHEET 3

OZALID W 231

All rights are reserved for this drawing, even in case of issuance of a patent and registration of another industrial right. Misapplication in particular reproduction or handing over to third persons is prohibited. It is civilly and criminally actionable. SATS may use the DRW for its own purposes.

12027 T
8

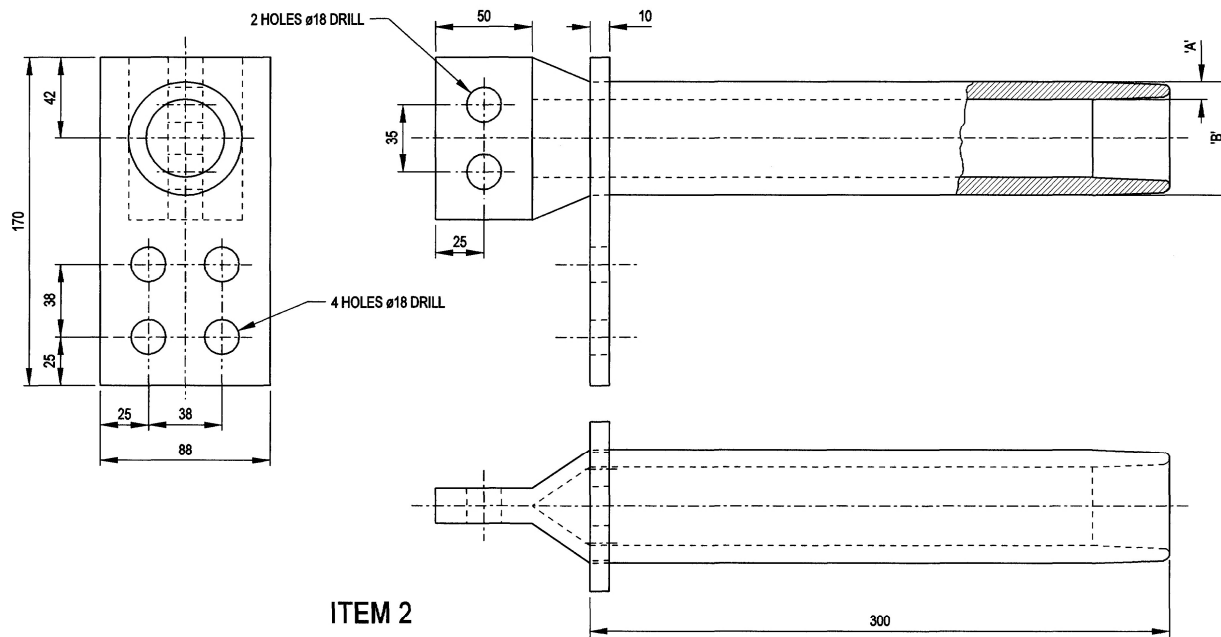
A		B		C		D	
4		3		2		1	
part	description	part	material	weight	drawing	remarks	
1	MSH 60x60x29 ... 601g	2	stainless steel A031	0.30kg			
1	MSH 60x60x29 ... 601g	1	mild steel hot dip galv	0.30kg			
scale		date		checked		drawn	
1:2,5		6/74 506 818		26.10.81		26.10.81	
Div. WK/F		app.					
BBC BROWN BOVERI lift stop for steady arm at cross wire (LIFT RESTRICTOR for STEADY ARM)				SATS, DRW. No. CEE-TZ-9/38			

3

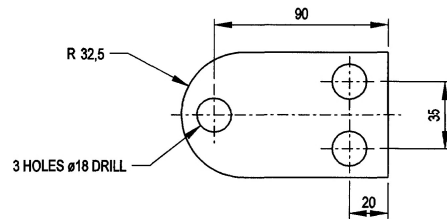
4

4

3



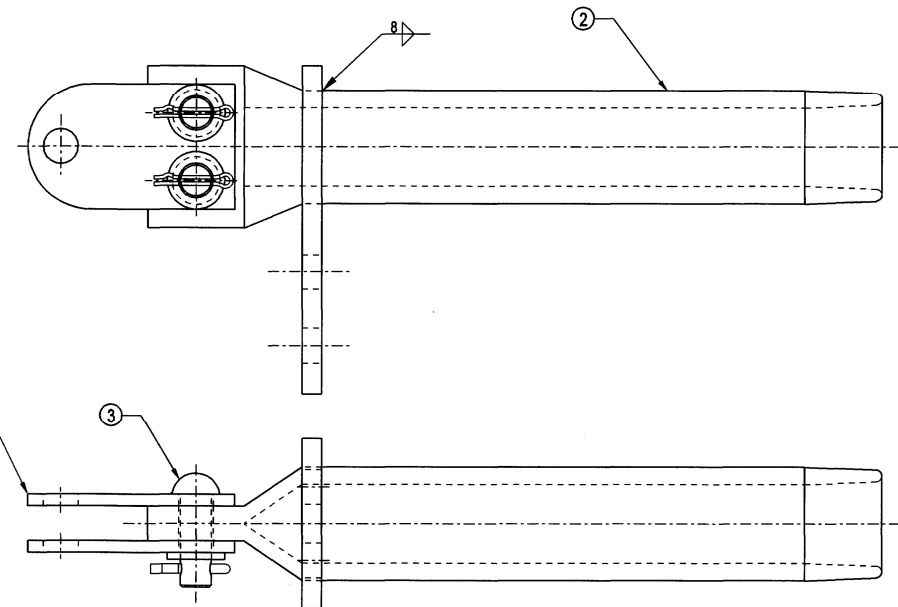
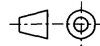
ITEM 2



ITEM 1

NOTES

1. FOR TENSION SPLICE OR CRIMP LENGTH SEE DRG NO CEE-TNB-29.
2. ITEMS 1 & 3 ZINC COAT TO SANS 121.
3. TO BE READ IN CONJUNCTION WITH SPECIFICATION CEE.0038.
4. FOR ARRANGEMENT DETAIL SEE DRG NO BBB3590.
5. EACH SPLICE MUST BE ACCOMPANIED BY THE APPROPRIATE INNER SPLICE.



ASSEMBLY

CONDUCTOR	"DEER" (NOTE 5)	"LAPWING" (NOTE 5)
DIMENSION 'A'	10,72 ± 0,45	9,1 ± 0,45
DIMENSION 'B'	53,98 ± 0,2	58,72 ± 0,2
INNER SPLICE	DRG NO BBB3598 (NOTE 5)	DRG NO BBB3597 (NOTE 5)
STORES ITEM NO	54/33445	54/33457

ITEM NO	DESCRIPTION	QTY	STORES ITEM NO	DRAWING NO
3	PIN, STRAIGHT, HEADED, ø16 x 60L (SEE NOTE 2)	2	-	CEE-TX-66
2	CLAMP (SEE NOTE 3)	1	-	-
1	STEEL, FLAT 65 x 6 x 107L (SEE NOTE 2)	2	-	-

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DIMENSIONS : mm
TOLERANCE : LIN ± 0,5 ANG ± -
MATERIAL : -
VERSION INFO : -

SCALE : 1 : 2
ITEM NO : -

DO REF : CDO/2357
ECP REF : -
DRAWN : JR Anthony
DESIGNED : -
CHECKED : JD van Dyk

DATE: 12/2/2003

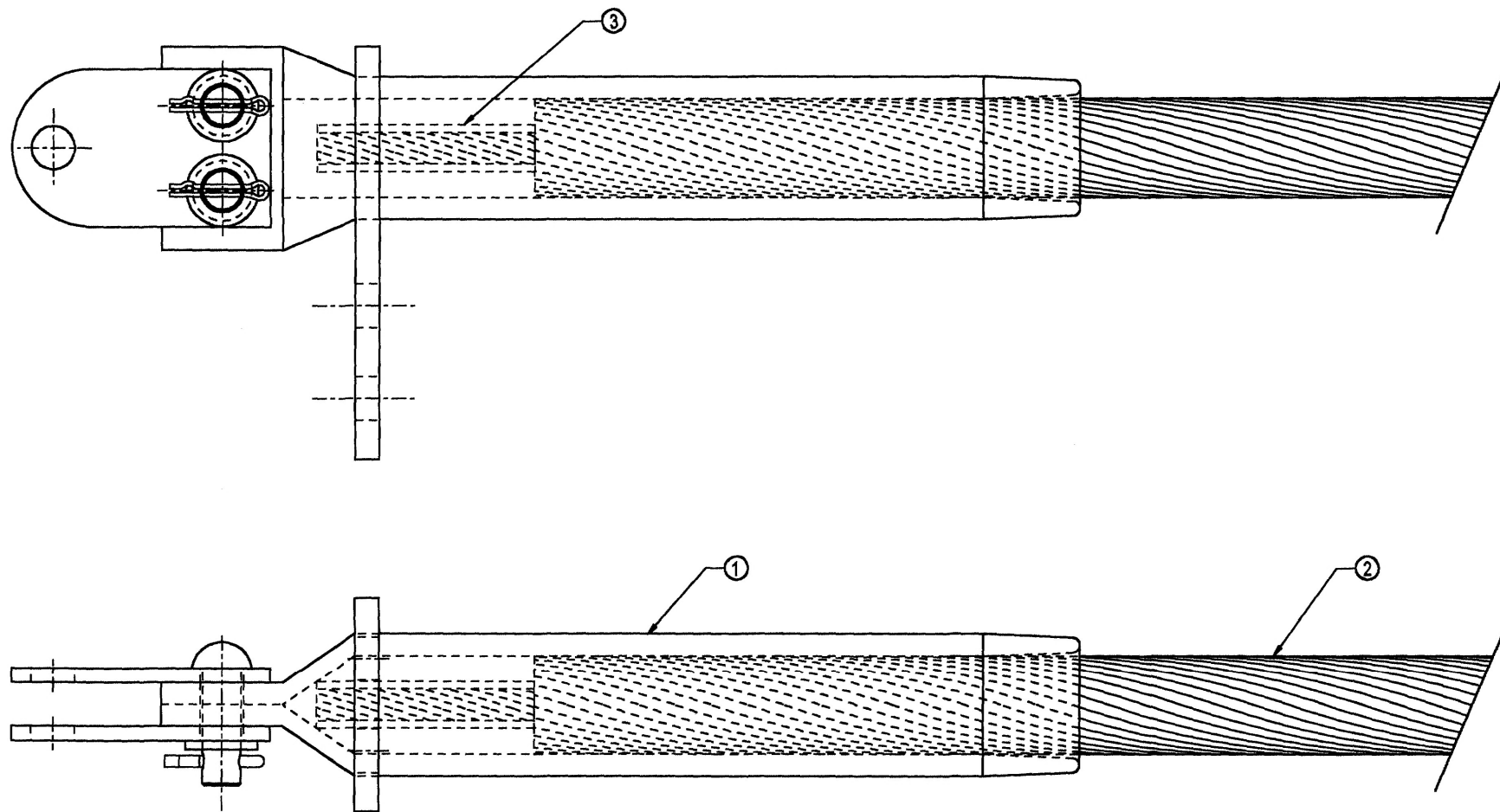
APPROVED
AUTHORISED

CENTRAL DRAWING OFFICE

STRAIN CLAMP ASSEMBLY
"DEER" AND "LAPWING" ACSR FEEDER CONDUCTORS

SPOORNET

BBB3589
VERSION 1



NOTE
MINIMUM OF 4 (FOUR) CRIMPS (EACH CRIMP = 50mm WIDE) ON ITEM 1.
APPLY MAXIMUM NUMBER OF CRIMPS ON ITEM 3.

3	STEEL INNER SPLICE	"DEER"	1	-	BBB3596
		"LAPWING"	1	-	BBB3597
2	ACSR CONDUCTOR ("DEER" OR "LAPWING")	-	-	-	-
1	STRAIN CLAMP ASSEMBLY	-	-	-	BBB3589
ITEM NO	DESCRIPTION	QTY	STORES ITEM NO	DRAWING NO	

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DIMENSIONS : mm
TOLERANCE : LIN± - ANG± -
MATERIAL : -
VERSION INFO : -

SCALE : 1:2
ITEM NO : -

DO REF : CDO/2357
ECP REF : -
DRAWN : JR Anthony
DESIGNED : -
CHECKED : JD van Dyk

DATE: 12/4/2003
APPROVED
AUTHORISED

CENTRAL DRAWING OFFICE

DEAD- END STRAIN CLAMP ARRANGEMENT
"DEER" OR "LAPWING" ACSR CONDUCTORS

SPOORNET

BBB3590
VERSION 1

A3