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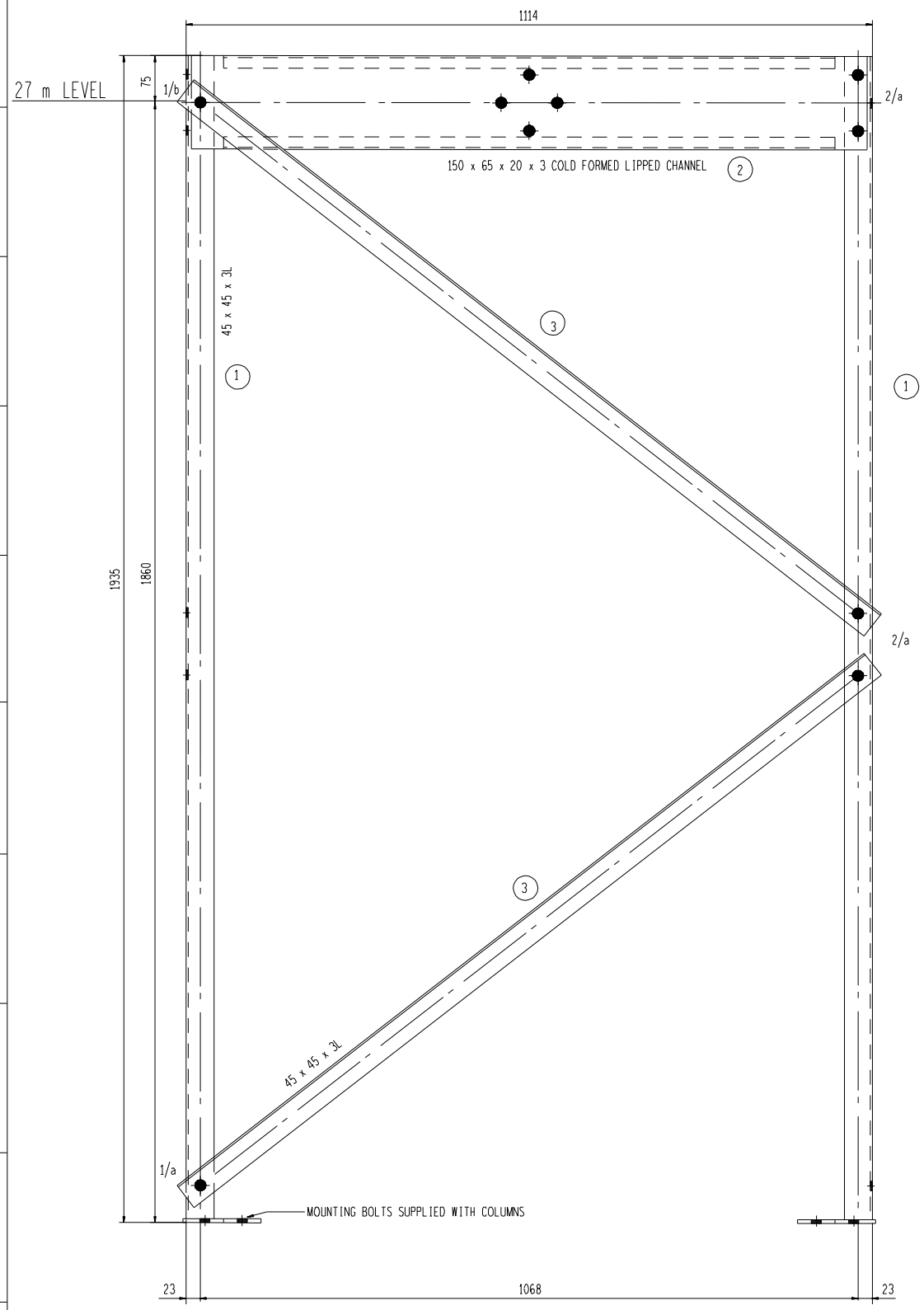
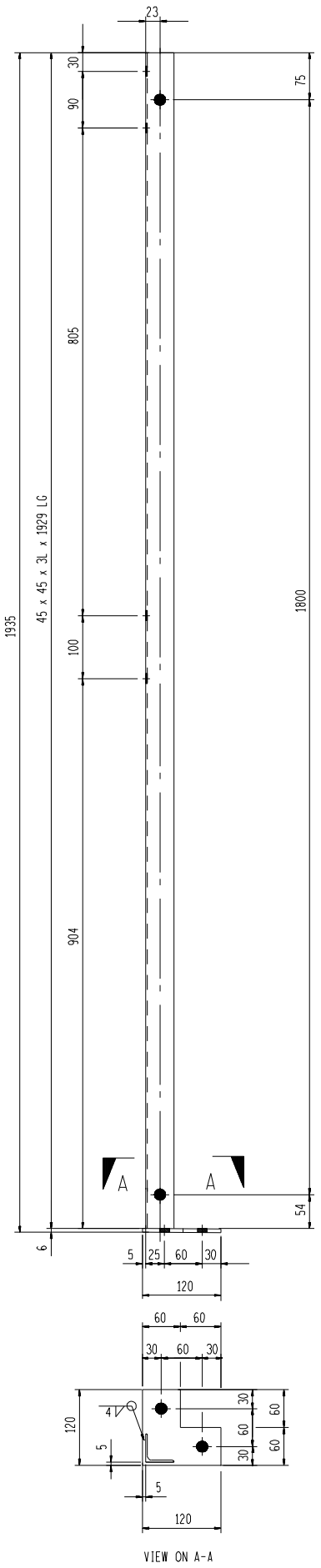


EARTHWIRE PEAK ASSEMBLY

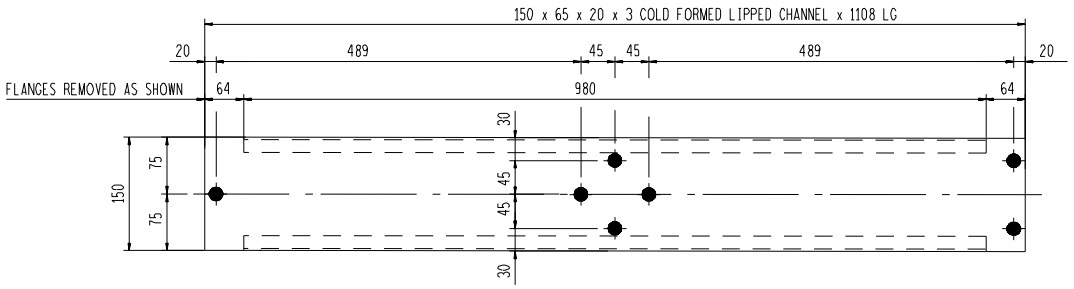
1:5



VIEW ON A-A

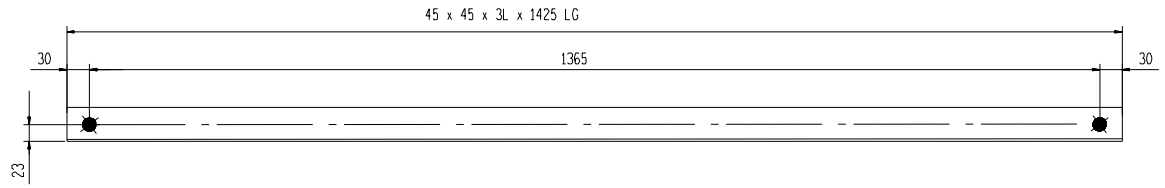
4-LEG ANGLES REQ'D AS DRAWN MKD 1

1:5



4-EARTHWIRE CONNECTION CHANNELS REQ'D AS DRAWN MKD 2

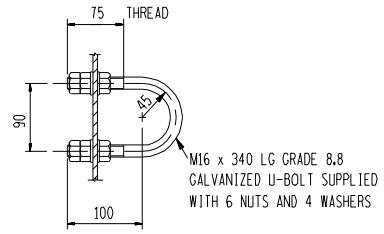
1:5



8-LACINGS REQ'D AS DRAWN MKD 3

1:5

MASS OF STEELWORK (BOLTS EXCLUDED)	74 kg
MASS OF GRADE 4.6 BOLTS	3 kg
NO. OFF GRADE 8.8 U-BOLTS	4



M16 SHACKLE BOLT - 4 NO OFF REQ'D

1:5

BOLT SCHEDULE

*** STRENGTH GRADE 4.6 ***			
MARK	TYPE	NO OFF	LENGTH
a	M16	20	25
b	M16	4	30

NOTES ON BOLTS:
1) BOLTS TO BE SUPPLIED WITH NUT AND WASHER.
2) BOLTS ERECTED WITH HEAD TO INSIDE PREFERED.
3) WASHER TO BE PLACED UNDER NUT.
4) ALL BOLTS TO BE GALVANISED.
5) BOLT POSITIONS INDICATED THUS: NO OFF/MARK eg. 6/a
6) BOLT TIGHTENING: "SNUG TIGHT" USING STANDARD PODGER SPANNER OR IMPACT WRENCH.

NOTES

UNLESS OTHERWISE NOTED :
1) QUANTITIES SHOWN ARE FOR ONE EARTHWIRE PEAK ONLY.
2) ALL STRUCTURAL STEEL TO BE GRADE 300W.
3) ALL STEELWORK TO BE HOT DIP GALVANIZED TO S.A.B.S. 763.
4) ALL HOLES TO BE 18 DIAMETER.
5) OPEN HOLES AND SITE BOLTS INDICATED THUS: ✦ ✦
6) THE CONTRACTOR SHALL SUPPLY ALL NUTS, BOLTS, WASHERS, ETC, REQUIRED FOR ERECTION.
7) ALL PORTIONS OF WELDED JOINTS, NOT SEALED BY STRUCTURAL WELD, SHALL BE SEAL WELDED.
8) ALL MARKS TO BE STAMPED ONTO STEELWORK AND SHALL BE CLEARLY LEGIBLE AFTER GALVANIZING.
9) ALL MARKS TO BE PREFIXED : 4EZ
10) LIMITATIONS OF GENERAL USAGE-
THESE STRUCTURES HAVE BEEN DESIGNED TO SAFELY WITHSTAND THE FOLLOWING LOADING CONDITIONS:
A) EARTHWIRE TENSION LOAD OF 2.25KN PER WIRE.
B) WIND LOADS RESULTING FROM A FREE STREAM VELOCITY PRESSURE (qz) OF 1000 Pa AS DEFINED IN CLAUSE 4.5.3 OF SABS 0160-1980. THIS DESIGN PRESSURE IS APPLICABLE FOR TERRAIN CATEGORY 2 LOCATIONS THROUGHOUT SOUTH AFRICA, WITH THE EXCEPTION OF THE AREA BOUNDED BY THE TOWNS OF UPINGTON, KIMBERLEY, COLESBURG AND LAINSBURG INCLUSIVE. WHERE THE STRUCTURES ARE TO BE LOCATED WITHIN THIS AREA, OR ANYWHERE WITHIN SOUTH AFRICA AT A TERRAIN CATEGORY 1 LOCATION (ie. IN A SEVERELY EXPOSED LOCATION), APPROVAL TO USE THESE STRUCTURES MUST BE OBTAINED FROM ESCOM'S CIVIL ENGINEERING DIVISION.

REV	AUTH MAG	DATE DATUM	REVISION/REVISIES	BY DEUR	CHKD NAGES	REFERENCE DRAWINGS VERWYSINGSTEKENINGE
1	D.B.	15.09.91	U-BOLTS REVISED.	A.D.	D.B.	
0			FIRST ISSUE / EERSTE UITREIKING			
			INDEX REF/INDEKSVERW S2 & S9			0·54

DRG.TEK REGISTR

W MEINTJES 30 03 85
J SCOTT 25 10 85
CHKD NAGES BRODSKY 8 12 85
DRAWN GETEKEN A.D. 06 09 85
SCALE SKAAL AS SHOWN
APPROVED N. BARNARD 06 03 89
GOEDGEKEUR

SOUTH AFRICA
SUID AFRIKA

ESCOM • EVKOM

400 kV YARD STEELWORK

ASSEMBLY AND DETAILS OF EARTHWIRE PEAK FOR SUSPENSION COLUMNS

0·54 / 3541

REV 1

THIS DRAWING HAS BEEN CREATED ON A C.A.D. SYSTEM. ANY AMENDMENT MUST BE EFFECTED ON THE SAME SYSTEM. C.A.D. REFERENCE No [03 ,164] 03541A000 . R01 ; 1

SIZE GROOTTE A1L