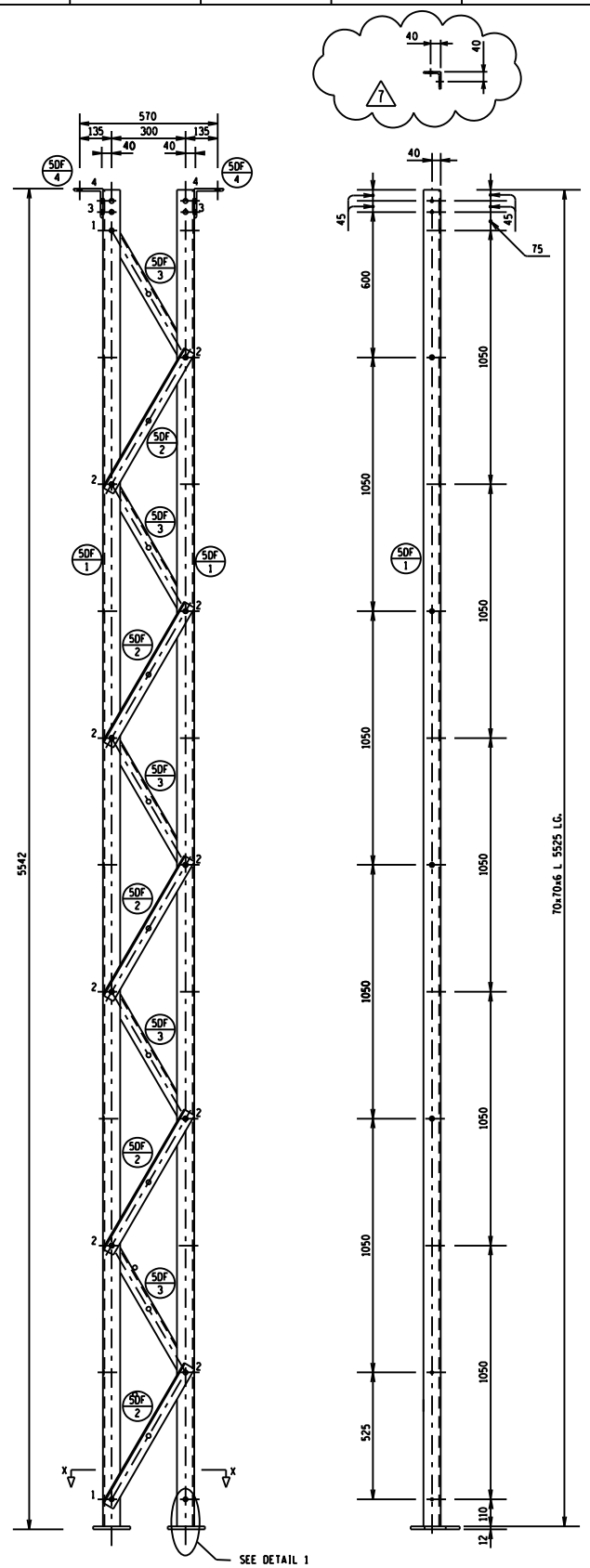
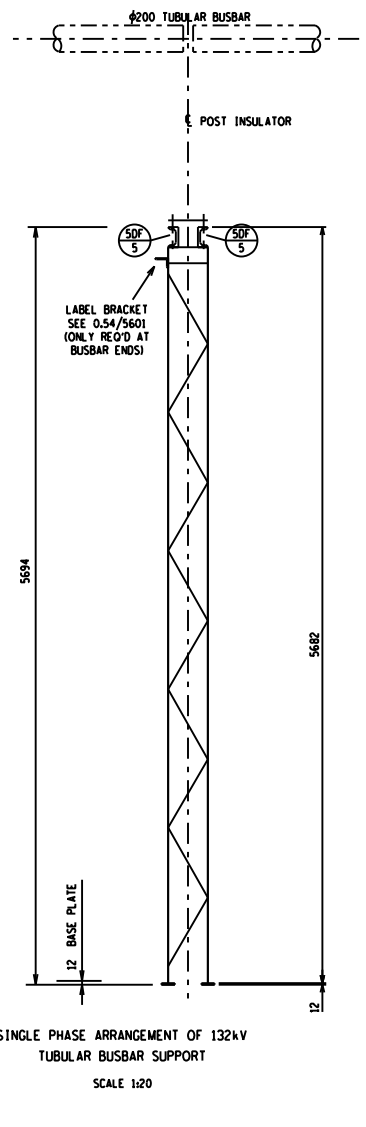
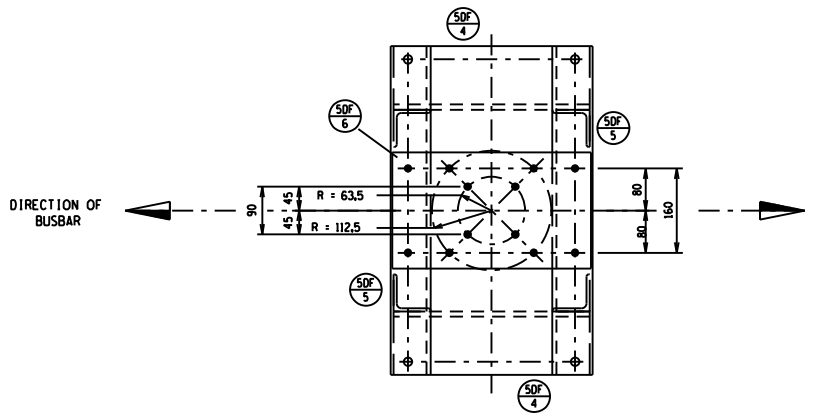


COLUMN ASSEMBLY DETAIL
SCALE 1:10

LEG ANGLE DETAIL (SOF 1)
4 REQUIRED
SCALE 1:10

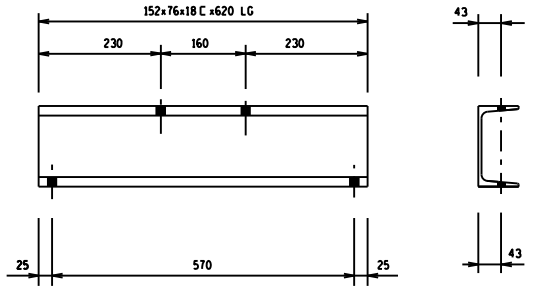


SINGLE PHASE ARRANGEMENT OF 132kV
TUBULAR BUSBAR SUPPORT
SCALE 1:20

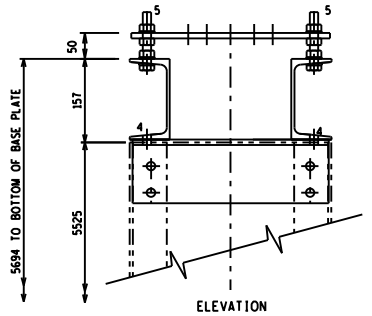


PLAN

POST INSULATOR CAP ASSEMBLY
SCALE 1:5



SCALE 1:5



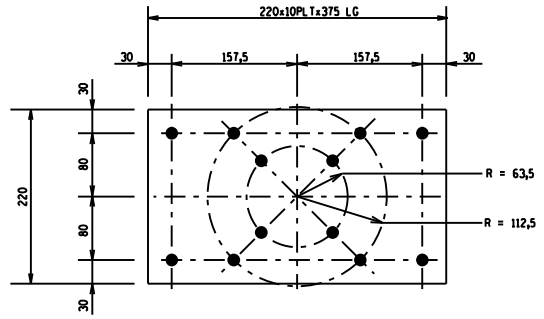
ELEVATION

MASS SCHEDULE	
STEELWORK	247,5Kg
BOLTS AND WASHERS	8,5Kg
TOTAL	256Kg

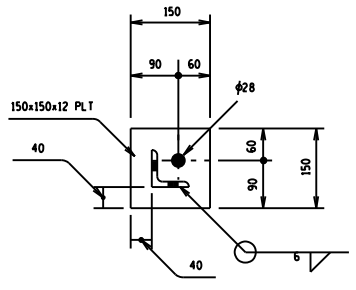
BOLT SCHEDULE STRENGTH GRADE 8.8				
MARK	TYPE	LENGTH	No OFF	WASHERS PER BOLT
1	M 16	30	8	1 FLAT
2	M 16	35	36	1 FLAT
3	M 16	40	8	1 FLAT
4	M 16	45	4	1 FLAT 1 BEVEL
5	M 16	100	4	3 FLAT 1 BEVEL

NOTES ON BOLTS:

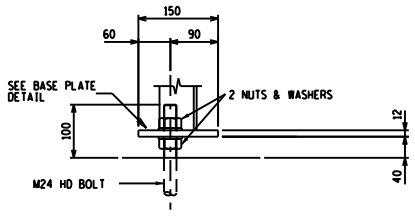
1) BOLTS TO BE SUPPLIED WITH NUT AND WASHER.
2) BOLTS ERECTED WITH HEAD TO INSIDE PREFERED.
3) WASHER TO BE PLACED UNDER NUT.
4) ALL BOLTS TO BE HD GALVANISED.
5) BEVEL WASHERS REQ'D WHERE BOLTS ARE USED ON CHANNEL SECTIONS.



CAP PLATE (SOF 6)
1 REQUIRED
SCALE 1:3

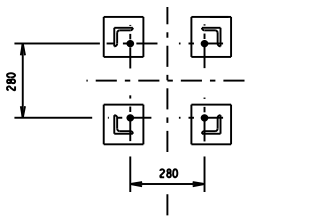


ENLARGED DETAIL OF BASE PLATE
4 REQUIRED
SCALE 1:5

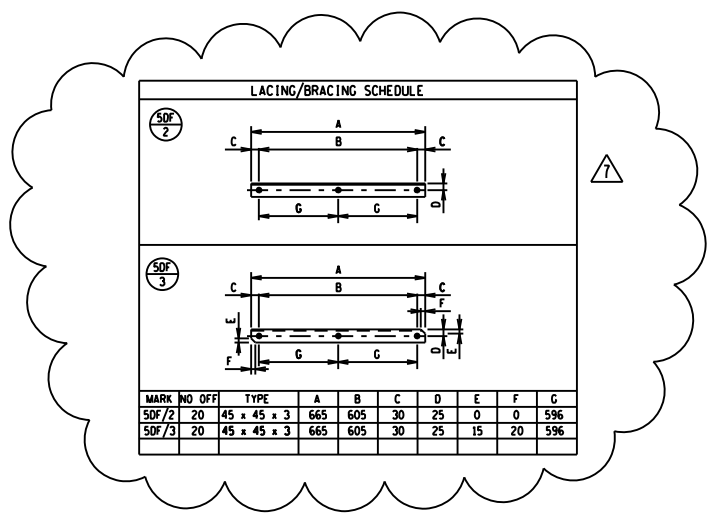


DETAIL 1

COLUMN CONNECTION ANGLES (SOF 4)
2 REQUIRED
SCALE 1:5



BASE LAYOUT
SECTION "X X"
SCALE 1:10



MARK	NO OFF	TYPE	A	B	C	D	E	F	G
SOF/2	20	45 x 45 x 3	665	605	30	25	0	0	596
SOF/3	20	45 x 45 x 3	665	605	30	25	15	20	596

NOTES:

1 - ALL WELDING AND WELDING SYMBOLS SHALL CONFORM TO SABS 044 PART 1 TO PART 5.
2 - ALL STRUCTURAL USE OF STEEL TO CONFORM TO SABS 0162. GRADE OF STEEL TO BE TO SABS 1431 GRADE 300WA.
3 - STEELWORK TO BE HOT DIP GALVANIZED TO SABS ISO 1461.
4 - ALL HOLES 18 DIA. UNLESS OTHERWISE STATED.
5 - ALL BOLTS SECURING EQUIPMENT TO THIS STRUCTURE, TO BE SUPPLIED BY EQUIPMENT CONTRACTOR.
6 - H.D. BOLTS COMPLETE WITH NUT AND WASHER TO BE SUPLIED BY CIVIL CONTRACTOR.
7 - ALL BOLTS & NUTS TO CONFORM TO SABS 135. STRENGTH GRADE 8.8.

REV	AUTH ING	DATE DAY/MM	REVISION/REVISIES	BY DRAW	CHKD NAMES
7		11.05.94	LACING & BRACING SCHED.& BOLT GRADE REVISED	PHD	PG
6		29.04.93	DIMENSIONS ADDED & REVISED AND DETAIL 3 ADDED	PHD	
5		18.03.93	DIMENSIONS & BASE PLATE THICKNESS REVISED	PHD	
4		26.2.93	ITEM 4,DIMENSIONS REVD & HOLES REMOVED. ITEM 5 REVD - HOLES REMOVED. PLAN VIEW OF P/I CAP ISSUED. - DIRECTION OF BUSBAR UNCLEAR. SHEET OF THE BUSBAR SUPPORT - LABEL BRACKET & TUBULAR BUSBARS SHOWN.		
3		12/93	ITEM 5 & HOLES ADDED.		
2		06/93	ITEMS 4 AND 5 REVD - HOLES ADDED.		
1		3/93	BASEPLATE AND HOLE SIZE CHANGED		
0			FIRST ISSUE / EERSTE UITREIKING		

DRAWN	CHKD	APPROVED	DRAWING NUMBER
C.H.	A.J.S.C. 30.6.93	Maan den ENDE	4319 FOUNDATIONS
	I.HILL 30.6.93		0.54/ REFERENCE DRAWINGS VERWYSINGSTEKENINGE
	C.H. 27.4.93		58

SCALE SKAAL	AS SHOWN	30.06.93	02.07.93

ESKOM

132 kV TUBULAR BUSBAR SUPPORT
STEELWORK
(EQUIPMENT ON 127 OR 225 PCD'S)

0.54/4320 REV 7