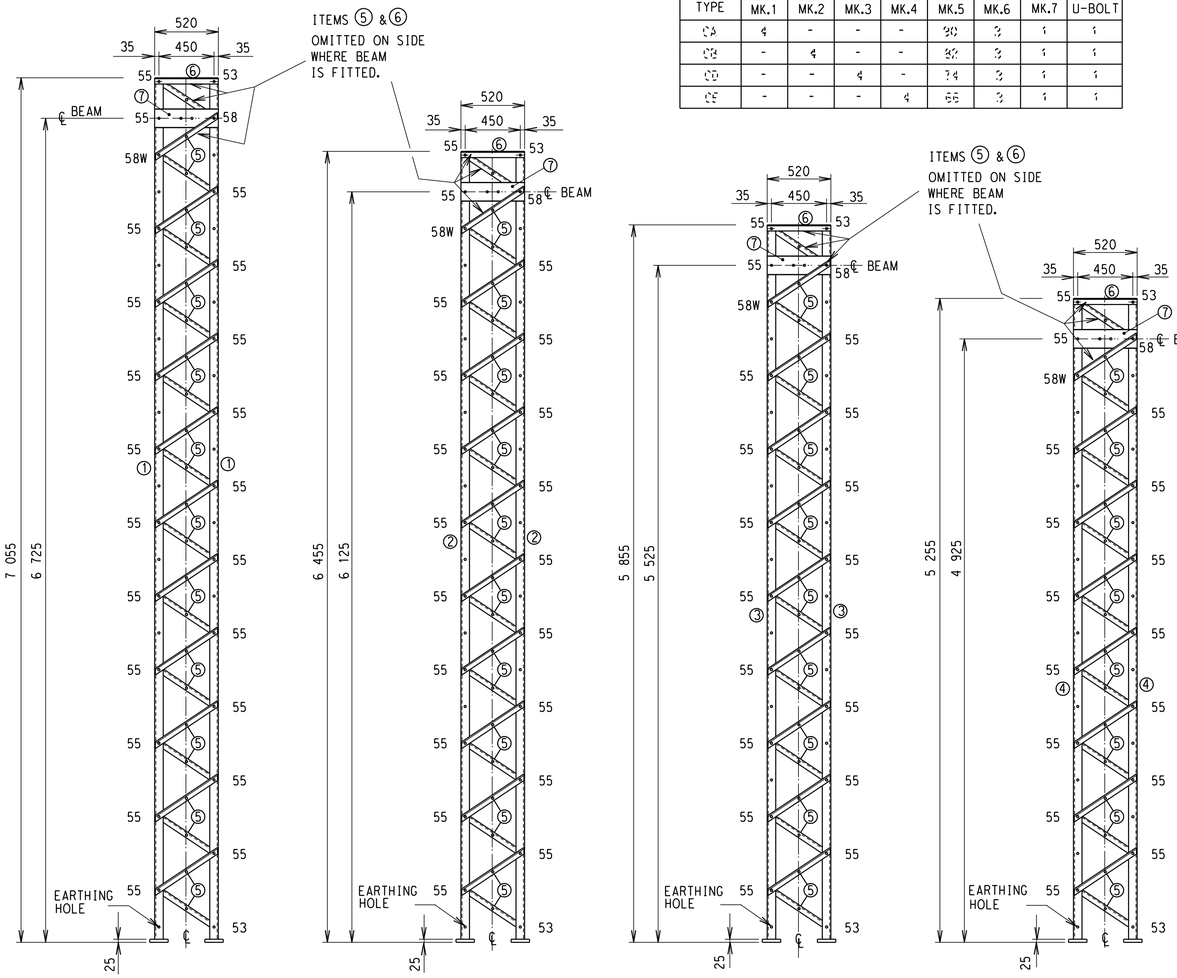
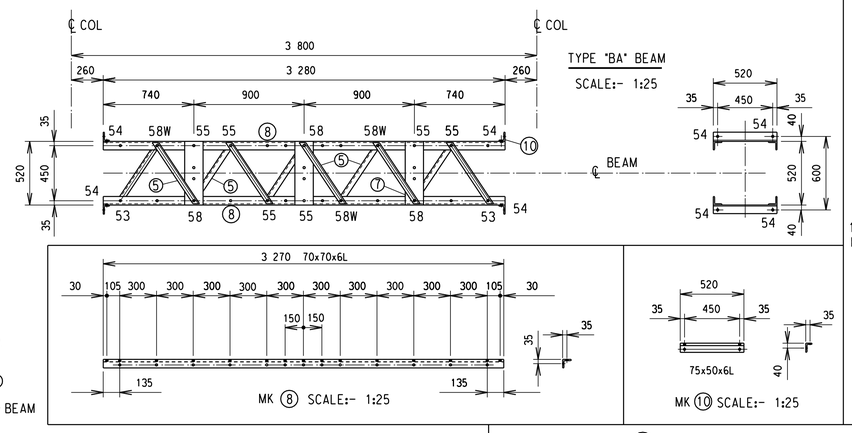
SCHEDULE OF QUANTITIES								
COLUMN TYPE	NO. OFF REQUIRED PER 1 COLUMN							
	MK.1	MK.2	MK.3	MK.4	MK.5	MK.6	MK.7	U-BOLT
CA	4	-	-	-	30	3	1	1
CB	-	4	-	-	32	3	1	1
CD	-	-	4	-	34	3	1	1
CE	-	-	-	4	66	3	1	1



TYPE "CA" COLUMN — TYPE "CB" COLUMN — TYPE "CD" COLUMN — TYPE "CE" COLUMN

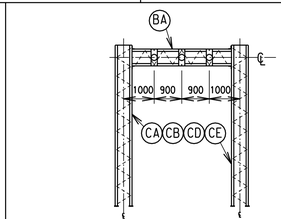
SCALE:- 1:25



SCHEDULE OF QUANTITIES						
BEAM TYPE	NO OFF REQUIRED PER 1 BEAM					
	MK.5	MK.7	MK.9	MK.9	MK.10	U-BOLT
"BA"	40	12	4	-	4	12
"BB"	3	4	-	4	2	4

MASS SCHEDULE kg			
ITEM	STRUCTURE	BOLTS, NUTS & WASHERS	TOTAL
"CA" COLUMN	392	18	410
"CB" COLUMN	360	17	377
"CD" COLUMN	329	16	345
"CE" COLUMN	297	14	311
"BA" BEAM	250	15	265
"BB" BEAM	65	4	69

BOLT SCHEDULE									
MK.	DIA.	LENGTH	NO OFF PER COL.				NO OFF PER BEAM		No. & TYPE OF WASHERS
			CA	CB	CD	CE	BA	BB	
53	M16	35	8	8	8	8	8	16	1 FLAT WASHER PER BOLT
54	M16	40	-	-	-	-	16	8	2 FLAT WASHERS PER BOLT
55	M16	40	94	86	78	70	24	8	1 FLAT WASHER PER BOLT
58	M16	50	1	1	1	1	12	-	2 FLAT WASHERS PER BOLT
58W	M16	50	1	1	1	1	12	-	3 FLAT WASHERS PER BOLT



PORTAL STRAIN STRUCTURE ARRANGEMENT.

△6 FND TYPE 1 0.54/316 SHT. 1

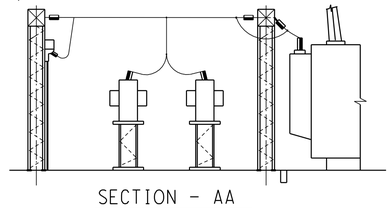
END STRAIN STRUCTURE ARRANGEMENT

△6 FND TYPE 2 0.54/316 SHT. 2

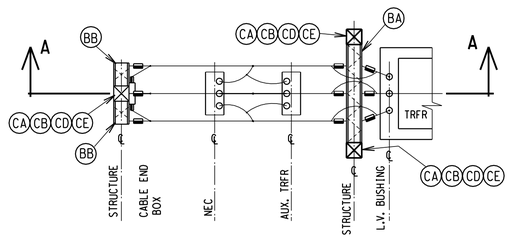
3 x SINGLE CORE CABLES. MOUNTING ARRANGEMENT. FND TYPE 2

SINGLE 3-CORE CABLE END BOX. MOUNTING ARRANGEMENT. FND TYPE 2

NOTE:
COLUMN TYPE SELECTED TO SUIT TRFR
MAXIMUM BENDING MOMENT ON COLUMN 55kNm



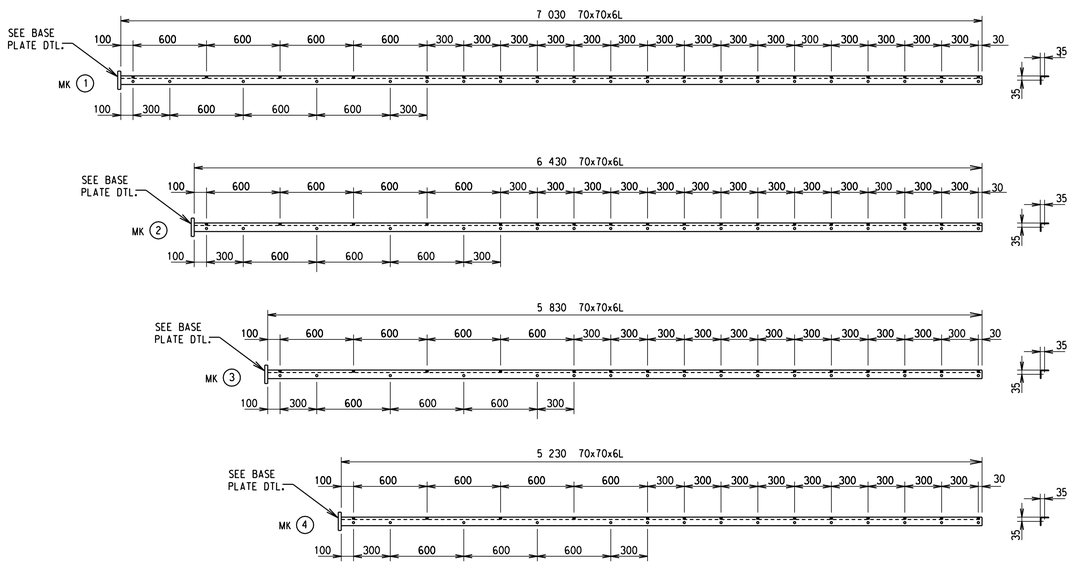
SECTION - AA



TYPICAL PLAN LAYOUT

TYPICAL APPLICATIONS

SCALE 1:100



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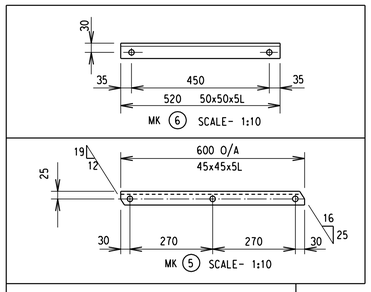
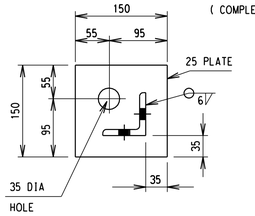


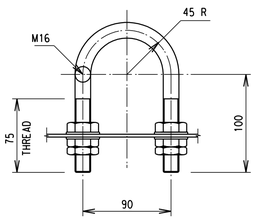
PLAN OF BASE

SCALE:- 1:10



BASE PLATE DETAIL

SCALE:- 1:5



U - BOLT

(COMPLETE WITH 6 NUTS & 4 WASHERS)

NOTES:

1. ALL WELDING TO CONFORM WITH B.S. 5135 AND SYMBOLS IN ACCORDANCE WITH SABS 0.44
2. ALL HOLES TO BE 18 DIA. UNLESS OTHERWISE SHOWN.
3. STEELWORK TO BE HOT DIP GALVANISED TO S.A.B.S.763
4. ALL PARTS TO BE CLEARLY STAMPED BEFORE GALVANISING.
5. BOLT MARK NO. INDICATED THUS:- 55
6. MAX STRAIN TO BE 4,2kN/PHASE

△5

WAS 0.00/3017

REV	AUTH. MAG	DATE DATUM	REVISION/REVISIES	BY DEUR	CHKD NAGES
6	DJC.S	08.3.2010	FOUNDATION DRG MUMBERS ADDED	C.F	DN
5	DJC.S	19.7.06	NEW FND TYPE & NOTE 6 ADDED	DJC.S.	DN
4	L.E.R.	15.6.90	REDRAWN ON CAD.	O.J.	R.J.C.
3	A.C.M.	21.9.82	HOLES ADDED TO ITEM MK 8.	S.VDM.	A.D.R
2	A.C.M.	1.3.82	METRIC SECTIONS UPDATED MASS REVISED.	G.W.F	R.J.C.
1	P.J.G.	21.3.75	COLUMN BENDING MOMENT ADDED. BASE PLATE HOLE WAS 42.	P.C	P.G.
Ø			FIRST ISSUE / EERSTE UITREIKING		

INDEX REF/INDEKSVERW S2

319	2667 HIGH	NEC.& AUX. TRFR. SUPP.
318	2134 HIGH	NEC. & AUX. TRFR. SUPP.
317	1384 HIGH	NEC.& AUX. TRFR. SUPP.
320	NEC. & AUX. TRFR.FOUND.	
316	FOUNDATION DETAIL	
0.54/	REFERENCE DRAWINGS VERWYSINGSTEKENINGE	

DRG. TEK REGISTR		
	W.J.M	17.8.71
CHKD NAGES	P.G.	
DRAWN GETEKEN	G.W.F.	6.8.71
SCALE SKAAL	AS SHOWN	

FILENAME: TRFRBSTR
PLOT SIZE: 250

THIS DRAWING HAS BEEN CREATED ON A C.A.D. SYSTEM AND ANY AMENDMENT TO THE DRAWING MUST BE EFFECTED ONLY ON THE SAME C.A.D. SYSTEM

THE C.A.D. REFERENCE NUMBER IS: QSA3:*100,164" 00315L000.R04

ESKOM

TRANSFORMER TERTIARY BUSBAR STRUCTURE.

APPROVED	GOEDGEKEUR	REV
R. FLEMING	GERBER	6
17.8.71	17.8.71	0.54/315

SIZE GROOTTE A1L