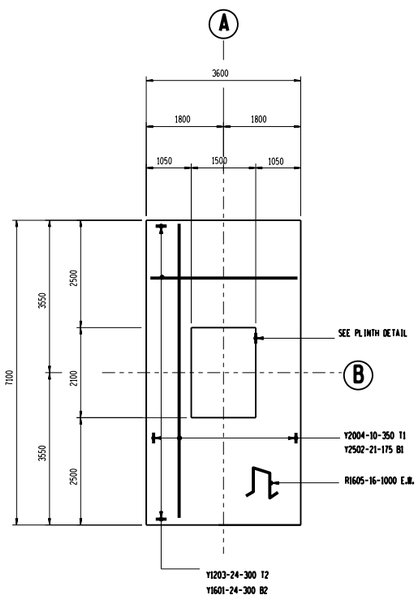
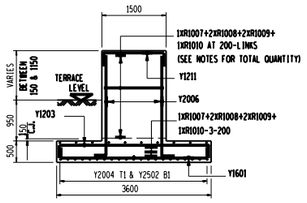
STRINGER STRAIN COLUMN FOUNDATION TYPE NC1 AND NC2

FOR COLUMN TYPES NC1 & NC2



PLAN

1:50

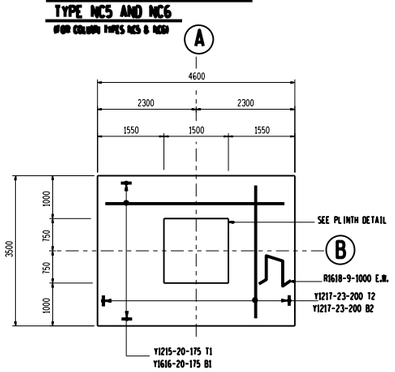


ELEVATION

1:50

BUSBAR STRAIN COLUMN & BUSBAR STRAIN/STRINGER STRAIN COLUMN FOUNDATIONS TYPE NC5 AND NC6

FOR COLUMN TYPES NC5 & NC6



PLAN

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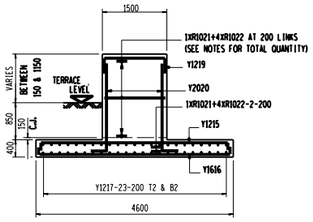
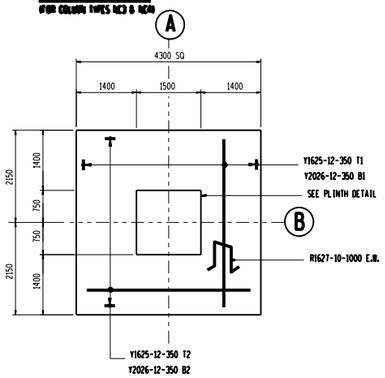


ELEVATION

1:50

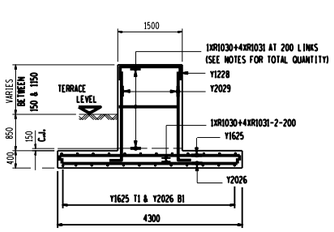
BUSBAR SUSPENSION COLUMN & STRINGER STRAIN/ BUSBAR SUSPENSION COLUMN FOUNDATIONS TYPE NC3 & NC4

FOR COLUMN TYPES NC3 & NC4



PLAN

1:50



ELEVATION

1:50

ITEM AND No OFF	Y OR R	DIA.	MK.	BARS No OFF PER ITEM	BARS OFF TOTAL	CUTTING LENGTH mm	TOTAL LENGTH m	SHAPE CODE	STANDARD SHAPES BENDING DIMENSIONS mm A	B	C	D	E	R
BASE TYPES NC1 & NC2	Y	16	01	24.		4200		38.	380	3520	____	____	____	____
	Y	25	02	21.		7700		38.	400.	7020	____	____	____	____
	Y	12	03	24.		4250		38.	400.	3520	____	____	____	____
	Y	20	04	10.		7700		38.	380.	7020	____	____	____	____
	R	16	05	16		1950		83.	500	360.	400.		____	____
	Y	20	06	44.		8...		31.	4...	____	____	____	____	____
	B	10	07	C..		2100		60.	1620	2020	____	____	____	____
	B	10	08	2C.		5350		60.	540.	2020	____	____	____	____
	B	10	09	2C.		6450		60.	690.	1620	____	____	____	____
	B	10	10	C..		6700		60.	820.	1620	____	____	____	____
	Y	12	11	12.		2000		38.	330.	1600	____	____	____	____
	Y	12	12	10.		2600		38.	330	2000	____	____	____	____
	.	.	13	NOT USED		____		____	____	____	____	____	____	____
	.	.	14	NOT USED		____		____	____	____	____	____	____	____
BASE TYPES NC5 &NC6	Y	12	15	20.		5100		38.	320.	6520	____	____	____	____
	Y	16	16	20.		5050		38.	300.	6520	____	____	____	____
	Y	12	17	46.		3950		38.	290.	3420	____	____	____	____
	B	16	18	9		1750		83.	500.	280.	400.		____	____
	Y	12	19	16.		2000		38.	330.	1600	____	____		
	Y	20	20	32.		E...		31.	0...	____	____	____		
	R	10	21	E..		5900		60.	1620	1620	____	____		
	B	10	22	4F		3850		60.	400.	1620	____	____		
	.	.	23	NOT USED		____		____	____	____	____	____		
	.	.	24	NOT USED		____		____	____	____	____	____		
BASE TYPES NC3 & NC4	Y	16	25	24.		6750		38.	300.	6220	____	____	____	____
	Y	20	26	24.		6700		38.	290.	6220	____	____	____	____
	B	16	27	10		1700		83.	500	260.	400.			
	Y	12	28	16.		2000		38.	330.	1600	____	____	____	____
	Y	20	29	32.		4...		31.	6...	____	____	____	____	____
	B	10	30	E..		5900		60.	1620	1620	____	____	____	____
	B	10	31	4F		3850		60.	400	1620	____	____	____	____

TO DETERMINE A,B,C,D,E,F,G,H,J

A=500+950+VARIABLE PLINTH HEIGHT-120

B=A+500-50

C=$\left[\frac{950+\text{VARIABLE PLINTH HEIGHT}}{200}\right]$+3

D=400+850+VARIABLE PLINTH HEIGHT-120

E=D+600-50

F=$\left[\frac{850+\text{VARIABLE PLINTH HEIGHT}}{200}\right]$+2

G=400+850+VARIABLE PLINTH HEIGHT-120

H=G+600-50

QUANTITIES SHOWN IN SCHEDULE ARE FOR ONE BASE ONLY

NOTES:

1) CONCRETE STRENGTHS AT 28 DAYS/ STONE SIZE : BLINDING = 15MPa/26
FOUNDATIONS = 25MPa/26

2) MIN. CONCRETE COVER TO REINFORCEMENT = 40mm

3) THESE FOUNDATIONS HAVE BEEN DESIGNED TO FOUND ON COMPETENT FOUNDING MATERIAL HAVING A MIN. GROUND BEARING CAPACITY OF 150KPa

4) FOR EXCAVATION DETAILS SEE DETAILS 1 & 2

5) THESE FOUNDATIONS SHALL NOT BE USED WHERE INCOMPETENT FOUNDING CONDITIONS ARE ENCOUNTERED eg. UNSTABLE CLAYS, COLLAPSING SAND, TRANSPORTED SOILS, HIGH WATER TABLE etc

6) IN ALL CASES, COMPETENCY OF FOUNDING MATERIAL MUST BE ESTABLISHED BY A QUALIFIED GEOTECHNICAL ENGINEER

7) WHERE ADJACENT COLUMN BASES BUTT AGAINST ONE ANOTHER, AN ISOLATION JOINT MUST BE PROVIDED.ie. THEY ARE NOT TO BE CAST MONOLITHICALLY

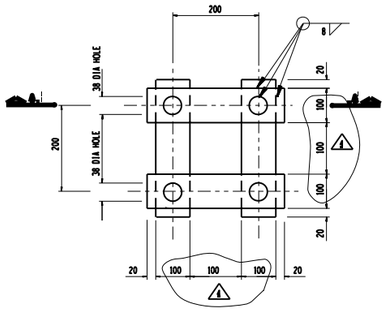
8) STEEL TEMPLATE TO BE USED FOR SETTING OUT H.D. BOLTS

9) H.D. BOLTS SUPPLIED BY CIVIL CONTRACTOR COMPLETE WITH NUTS & WASHERS

10) ALL TOP EDGES OF CONCRETE ABOVE GROUND TO HAVE 25x25 CHAMFERS

11) TO BE IN ACCORDANCE WITH S.A.B.S. 1200 SERIES SPECIFICATIONS

12) CONCRETE FINISH: TOP OF FOUNDATION - WOOD FLOAT FINISH
SIDES OF FOUNDATION - SMOOTH OFF SHUTTER FINISH

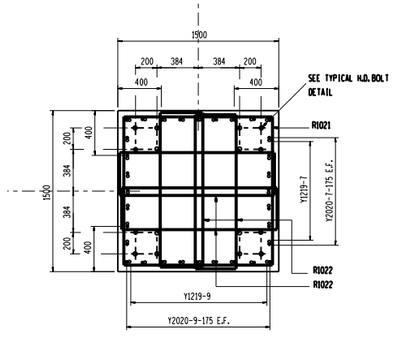


TYPICAL PLAN ON H.D. BOLTS

1:5

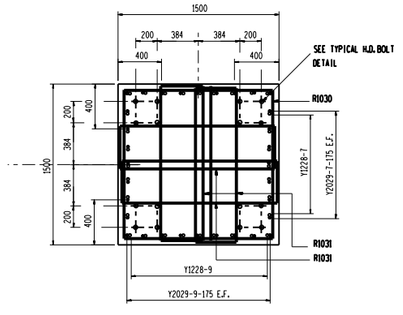
DETAIL OF PLINTH

1:20



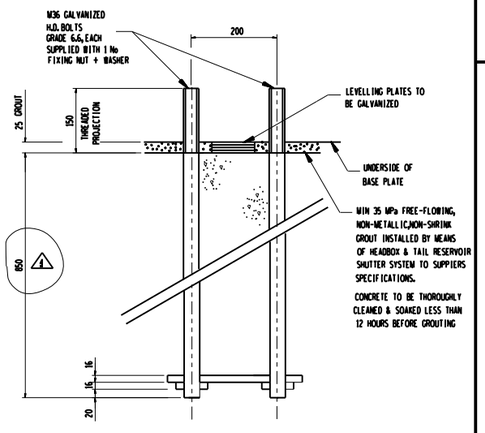
DETAIL OF PLINTH

1:20



DETAIL OF PLINTH

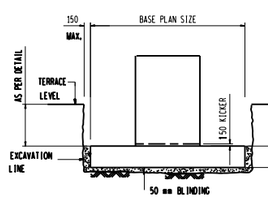
1:20



TYPICAL SECTION A-A

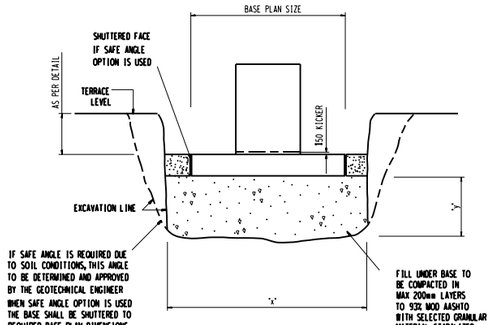
1:5

EXCAVATION DETAILS



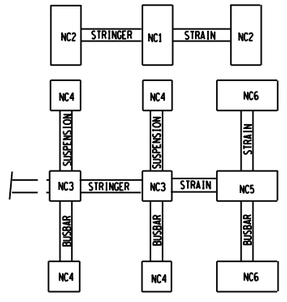
DETAIL 1

COMPETENT FOUNDING MATERIAL AT A LEVEL NOT EXCEEDING 50 mm BELOW U/S OF PLINTH BASE AS DETAILED



DETAIL 2

COMPETENT FOUNDING MATERIAL NOT FOUND AT LEVEL AS PER DETAIL



KEY PLAN

REV	AUTH MAG	DATE DATUM	REVISION/REVISIES	BY DEUR	CHKD NAGES
5.	.....	6.99	NOTES..BEVISED.....	D.S..	O.B.N..
4.	J.H....	1.97	BOLT LENGTH CHANGED.....	DRN..	J.H....
3	MAGE.	02.95	DIMENSION 'C' REVISED.	A.N.	A.D.
2	D.D.	08.95	DIMENSIONS, NOTES ETC.	A.N.	A.C.D
1	D.N.	02.95	ORIENTATION SYMBOLS ADDED.	A.N.	A.C.D
0			FIRST ISSUE - EERSTE UITREIKING		

REFERENCE DRAWINGS VERWYSINGSTEKENINGE: 0.54/

INDEX REF/INDEKSVERW: 4.58

DIRECTIVE REGISTER: .....

O.D.. DRAWN

CHKD NAGES.. A.D.. CHECKED

DRAWN D.E.B. DETAILED

SCALE SKAAL: AS SHOWN..

APPROVED Ed..... DATE 15/10/96

CODE/GROEP M.BRIDGE

CAD DRAWING NAME: 22SENDCOLSN....

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

ESKOM

22kV YARD STEELWORK STANDARD FOUNDATIONS

CONCRETE AND REINFORCEMENT DETAILS FOR 2&3 TYPE FOUNDATIONS

0.54/3989..

REV 5.

SIZE GROOTTE A0L