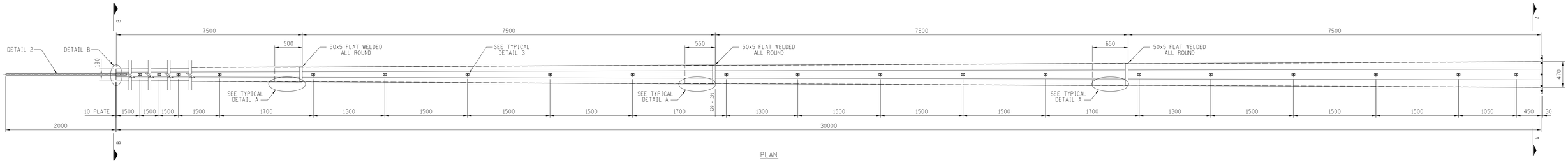
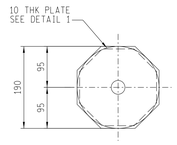
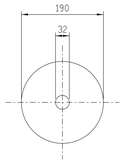
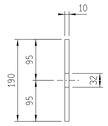


PLAN



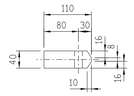
VIEW ON B-B
SCALE 1:5



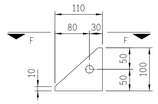


DETAIL 1
SCALE 1:5

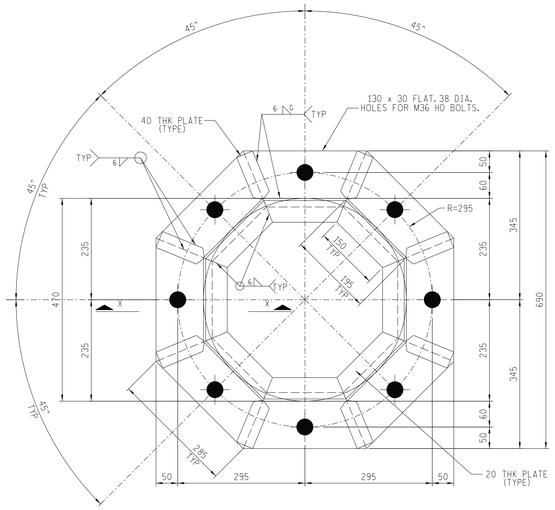
TYPICAL DETAIL A
SCALE 1:5



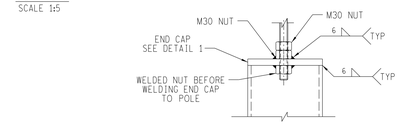
VIEW ON F-F



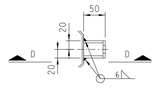
DETAIL 4
SCALE 1:5



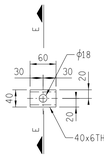
SECTION A-A
SCALE 1:5



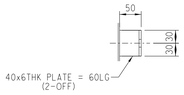
DETAIL B
NTS



SECTION E-E

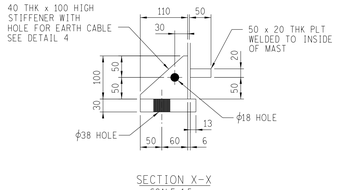


PLAN

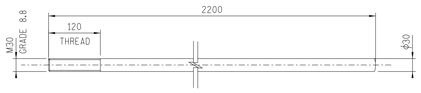


VIEW ON D-D

TYPICAL DETAIL 3 (20-OFF)
SCALE 1:5



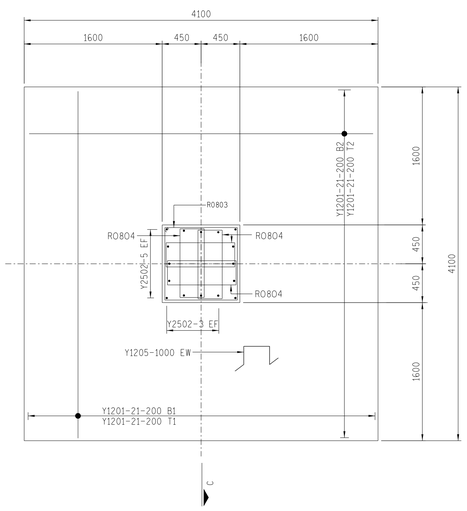
SECTION X-X
SCALE 1:5



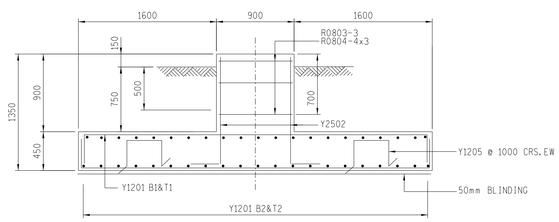
DETAIL 2
SCALE 1:5

NOTES:

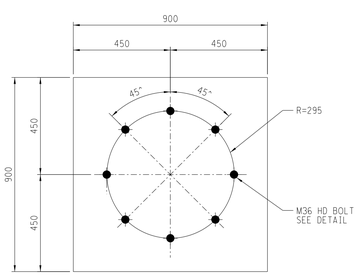
1 - ALL WELDING AND WELDING SYMBOLS SHALL CONFORM TO SABS 10044 PART 1 TO PART 5.
2 - ALL STEELWORK TO BE GRADE S355JR, TO SANS 1431 AND HOT DIP GALVANISED TO SANS 121.
3 - ALL WELDS TO BE SEAM WELDED.
4 - ALL STEELWORK TO BE FABRICATED, ERECTED & LEVELLED, TO A TOLERANCE OF + OR - 1,5 mm.
5 - ALL BOLTS 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 - HOLES TO BE DIA.18 FOR M16 GRADE 8.8 BOLTS HOT DIP GALVANIZED, UNLESS OTHERWISE STATED.
8 - ALL MARKS TO BE STAMPED ONTO STEELWORK AND SHALL BE CLEARLY LEGIBLE AFTER GALVANISING.
9 - ALL WORK SHALL COMPLY WITH SANS 1200 SERIES SPECIFICATIONS.



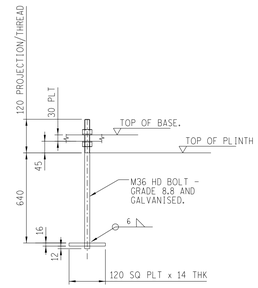
PLAN
1:25



SECTION C-C
1:25



HB BOLT LAYOUT ON PLINTH (30m)
1:10

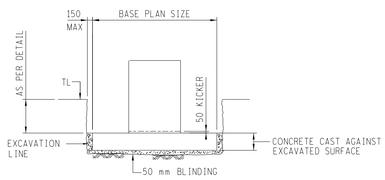


HD BOLT
(8 OFF/FOUNDATION.)
MASS OF ONE H.D.BOLT COMPLETE WITH TWO NUTS & WASHER = 10,8kg

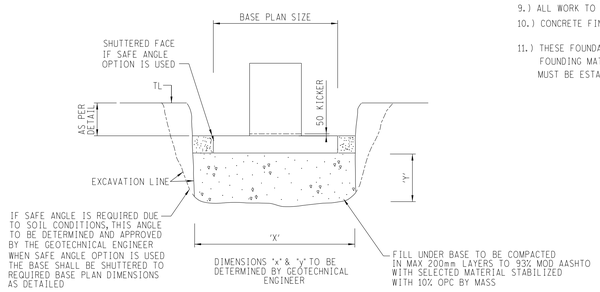
ITEM AND No OFF	BARS							SHAPE CODE	STANDARD SHAPES BENDING DIMENSIONS mm			
	Y or R	DIA.	MK.	No OFF PER ITEM	No OFF TOTAL	CUTTING LENGTH mm	TOTAL LENGTH m		A	B	C	D
30m FOUNDATION-1 OFF	Y	12	01		84	4650		38	350	4000		
	Y	25	02		16	1750		37	1220			
	R	08	03		3	3400		60	800	800		
	R	08	04		12	2350		60	280	800		
	Y	12	05		16	1700		83	400	315	400	

NOTES:

1.) CONCRETE STRENGTH AT 28 DAYS/STONE SIZE : BLINDING = 15/19
FOUNDATION = 25/19
CONCRETE CASTED IN FOUNDATION:
SLUMP VALUE 75mm (TOLERANCE ±25mm)
2.) MIN. COVER TO REINFORCEMENT TO BE 50mm
3 a.) HD BOLTS (GRADE 8.8) SUPPLIED BY CIVIL CONTRACTOR COMPLETE WITH NUTS & WASHERS TO BE HOT DIPPED GALVANISED TO SANS 121
b.) THREAD TO BE OVER-CUT TO SANS 121 TO ALLOW FOR THICKNESS OF GALVANISING
4.) FORMWORK TO EXTEND AT LEAST 150mm BELOW GROUND LEVEL
5.) ALL WELDING AND WELDING SYMBOLS TO SANS 10044
6.) STEEL TEMPLATE TO BE USED FOR SETTING OUT OF HD BOLTS
7.) 30 MPa FLOWABLE NON-SHRINK GROUT UNDER BASE PLATES ONLY IF REQUIRED
8.) ALL TOP EDGES TO HAVE 20 x 20 CHAMFER
9.) ALL WORK TO BE IN ACCORDANCE WITH SANS 1200 SERIES OF SPECIFICATIONS
10.) CONCRETE FINISH : TOP OF FOUNDATION - WOOD FLOAT FINISH
SIDES OF FOUNDATION - SMOOTH OFF SHUTTER FINISH
11.) THESE FOUNDATIONS HAVE BEEN DESIGNED TO FOUND ON COMPETENT FOUNDING MATERIAL. IN ALL CASES COMPETENCY OF FOUNDING MATERIAL MUST BE ESTABLISHED BY A QUALIFIED GEO-TECHNICAL ENGINEER



DETAIL 1
COMPETENT FOUNDING MATERIAL FOUND 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

EXCAVATION DETAILS

REV	REVISION DESCRIPTION	DRAWN	CHKD	AUTH	DATE	REFERENCE DRAWINGS

APPROVED BY: DJC SENEKAL — DATE 1/12/2015
CHECKED BY: P.DOYLE — DATE 1/12/2015
DRAWN BY: A.TIFLOEN — DATE 12/11/2015
SCALE AS SHOWN

Eskom
Eskom Holdings SOC Ltd
Reg No 2002/015527/30

30m HIGH LIGHTNING SPIKE STEEL DETAILS, FOUNDATION AND REINFORCING DETAILS

©

0.54/8734

SHEET NUMBER: 0
REVISION: 0

SIZE GROOTTE A0L