



MEMBER	MARK	TYPE	NO. OFF	TOTAL	LENGTH	BENDING DIMENSIONS					MASS kg		
						A	B	C	D	E			
RING BEAM RB1 (1-OFF)	01	Y12	12	8650	20						93		
	02	R8	84	1600	60	410	280				54		
RING BEAM RB2 (1-OFF)	04	Y12	8	8650	20						62		
	05	Y12	4	1350	38	500	370				5		
	06	R8	84	1250	60	240	280				42		
RING BEAM RB3 (2-OFF)	08	Y12	8	5750	20						82		
	09	Y12	2	7750	20						28		
	10	R8	55	110	1250	60	240	280			55		
	11	R8	39	78	750	38	240	280			24		
CORNER BARS	13	Y12	16	1950	38	870	255				28		
TOTAL MASS IN kg:						R6	R8	R10	R12	R16	R20	R25	R32
						Y6	Y8	Y10	Y12	Y16	Y20	Y25	Y32

LEGEND
 B = BOTTOM
 M = MIDDLE
 N.T.S = NOT TO SCALE
 T = TOP

<p>NOTES</p> <ol style="list-style-type: none"> DO NOT SCALE DRAWING. ONLY DIMENSIONS SHOWN TO BE USED. THE CONTRACTOR SHALL ALLOW FOR ALL STANDARDS/SPECIFICATIONS WHICH ARE REFERRED TO IN THESE NOTES AND WHICH ARE APPLICABLE ON SITE. ALL DIMENSIONS AND LEVELS ARE TO BE CHECKED ON SITE AND ANY DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE WORK IS COMMENCED. ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS. CONCRETE WORK TO BE DONE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATION: <ul style="list-style-type: none"> a) CONCRETE WORK TO TRANSNET'S SPECIFICATION S420 AND SANS 10002 b) CONCRETE PLACING DONE TO BE DONE IN ACCORDANCE WITH SANS 10100 PART 2, CLAUSE 10.1.2 c) CONCRETE CUBE STRENGTHS ARE CHARACTERISTIC STRENGTHS TO SANS 10100 PARTS 1 AND 2 CONCRETE STRENGTHS AT 28 DAYS: <ul style="list-style-type: none"> BASES/PILTH : 30MPa/15mm ROOF SLAB : 30MPa/15mm RING BEAM : 30MPa/15mm APRON SLAB : 30MPa/15mm BLINDING LAYER/CONCRETE INFILL : 10MPa/15mm COVER TO REINFORCEMENT: <ul style="list-style-type: none"> ROOF SLAB : 50mm UNLESS OTHERWISE SHOWN RING BEAM : 50mm UNLESS OTHERWISE SHOWN 		<p>8. ALL SHARP CORNERS ON CONCRETE WORK ARE TO BE CHAMFERED 25mm x 25mm UNLESS OTHERWISE SHOWN.</p> <p>9. COMPACTION OF THE BOTTOM OF FOUNDATIONS SHALL BE DONE TO 85% MOD AASHTO IN LAYERS NOT EXCEEDING 150mm.</p> <p>10. REINFORCEMENT SHALL COMPLY WITH SANS 501 AND BENT TO SANS 292.</p> <p>SYMBOLS: R - MILD STEEL WITH CHARACTERISTIC STRENGTH OF 250MPa Y - HOT-ROLLED OR COLD WORKED HIGH STRENGTH BARS WITH CHARACTERISTIC STRENGTH OF 450MPa (ONLY REINFORCEMENT FABRICATED UNDER THE SABS MARK SCHEME SHALL BE DEEMED TO COMPLY WITH SABS REQUIREMENTS)</p> <ol style="list-style-type: none"> INTERNAL WALLS TO BE PLASTERED INTERNAL WALLS AND FLOOR TO BE SEALED WITH PROTECTAKOTE LUVR FROM OPTIMA COATINGS OR SIMILAR THE MINIMUM CRUSHING STRENGTH OF MORTAR IN ACCORDANCE WITH TABLE 1 OF SANS 10164 PART 1. MORTAR AND PLASTER SAND TO BE FREE OF ORGANIC CONTENT. SEIVING OF SAND ON SITE NOT PERMITTED. ALL MASONRY MATERIAL COMPONENTS WORKMANSHIP AND TESTING SHALL COMPLY WITH SANS 10164 THE STRUCTURAL USE OF MASONRY AND SANS 10400. GENERAL LOAD BEARING BRICKWORK ABOVE DAMP-PROOF COURSE AND INNER BARS OF EXTERNAL WALLS TO BE 140MPa NX4 BRICKS WITH A WATER ABSORPTION OF NO MORE THAN 12% OR BETTER. STEELWORK TO BE FABRICATED AND ERECTED IN ACCORDANCE WITH SPECIFICATIONS SANS 2001-C81 AND SANS 1921-3 ALL HOT-ROLLED STEEL SECTIONS AND PLATES TO BE GRADE S355JR TO EN10025. 		<p>CONTRACTOR / CONSULTANT</p> <table border="1"> <tr> <th>TITLE</th> <th>NAME</th> <th>SIGN</th> <th>DATE</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p>OPERATING DIVISIONS</p> <table border="1"> <tr> <th>TITLE</th> <th>NAME</th> <th>SIGN</th> <th>DATE</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>		TITLE	NAME	SIGN	DATE					TITLE	NAME	SIGN	DATE					<p>TRANSNET FREIGHT RAIL RAIL NETWORK & CAPITAL PROJECTS</p> <table border="1"> <tr> <th>TITLE</th> <th>NAME</th> <th>SIGN</th> <th>DATE</th> </tr> <tr> <td>DRAWN</td> <td>SP</td> <td></td> <td>25 10 16</td> </tr> <tr> <td>CHECKED</td> <td>AA</td> <td></td> <td>25 10 16</td> </tr> <tr> <td>DESIGNED</td> <td>AA</td> <td></td> <td>25 10 16</td> </tr> <tr> <td>CHECKED</td> <td>DR</td> <td></td> <td>25 10 16</td> </tr> </table> <p>PR. ENG. / PR. TECH. / PR. ARCH</p> <table border="1"> <tr> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> </tr> <tr> <td>G. RAMAKHOTIJO</td> <td></td> <td>25 10 16</td> </tr> </table> <p>REG. NUMBER: 20057040</p> <p>SCALE: AS SHOWN</p>		TITLE	NAME	SIGN	DATE	DRAWN	SP		25 10 16	CHECKED	AA		25 10 16	DESIGNED	AA		25 10 16	CHECKED	DR		25 10 16	NAME	SIGNATURE	DATE	G. RAMAKHOTIJO		25 10 16	<p>Transnet Freight Rail, Rail Network & Capital Projects</p> <p>TRANSNET</p> <p>WOLSELEY</p> <p>SUBSTATION PROPOSED RENOVATIONS REINFORCING DETAILS FOR RING BEAM</p> <p>PROJECT NUMBER: 001 FBS: 4 DIS: - TYPE: T DRAWING NO.: R.D.-001011 SHEET: 01 REV: 0 SP</p>	
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