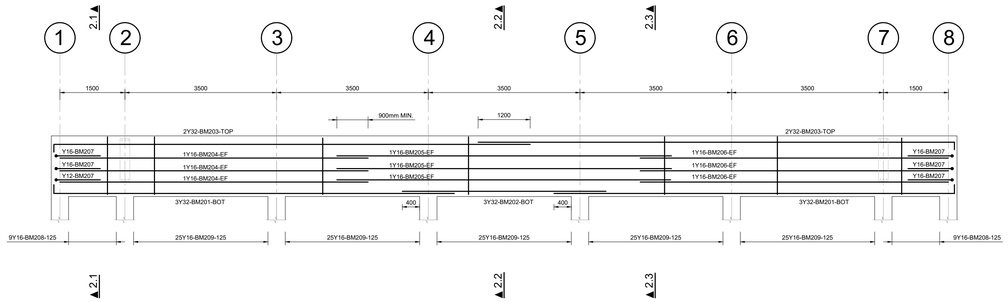
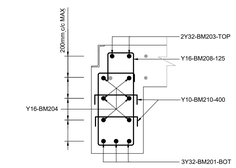


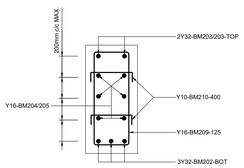
ELEVATION

BEAM 2 (400 x 1000)

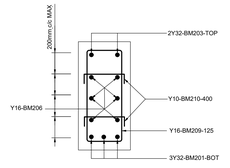
NTS



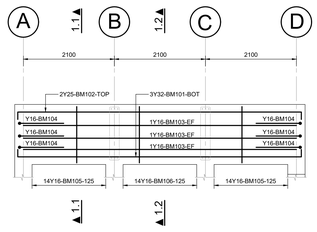
SECTION 2.1 - 2.1



SECTION 2.2 - 2.2



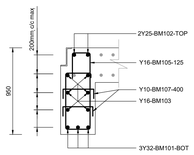
SECTION 2.3 - 2.3



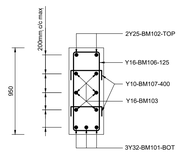
ELEVATION

BEAM 1 (400 x 950)

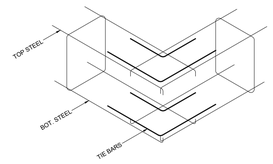
NTS



SECTION 1.1 - 1.1

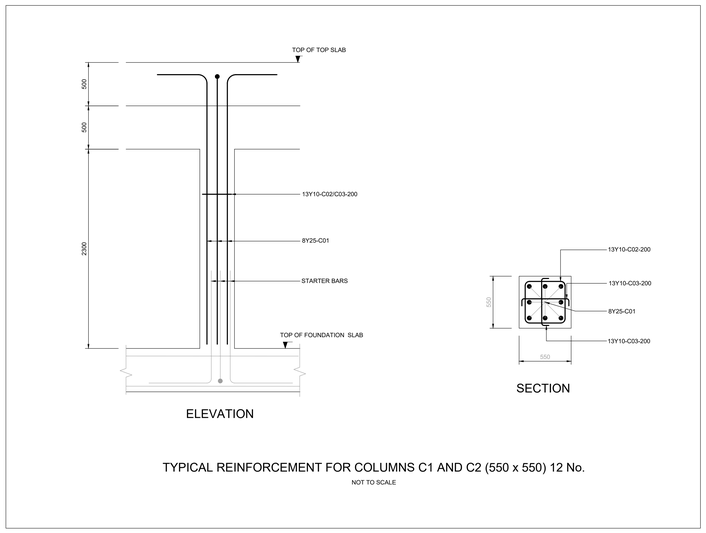


SECTION 1.2 - 1.2



TYPICAL TIE BAR FIXING

NTS



ELEVATION

SECTION

TYPICAL REINFORCEMENT FOR COLUMNS C1 AND C2 (550 x 550) 12 No.

NOT TO SCALE

MEMBER & SIZE	REINFORCEMENT						SHAPE CODE	DIMENSIONS				
	UNITS	MARK	TYPE & DIA.	No. PER UNIT	TOTAL No.	LENGTH		A	B	C	D	E/R
BEAM 1 400 x 950 DEEP	2	BM101	Y32	3	6	7050	35	6580				
		BM102	Y25	2	4	6900	35	6580				
		BM103	Y16	6	12	6500	20					
		BM104	Y16	12	24	1200	37	580				
		BM105	Y16	20	40	3300	75	750	190	830	280	675
		BM106	Y16	10	20	2250	60	830	280			
		BM107	Y10	18	36	500	85	50	280	50		
BEAM 2 400 x 1000 DEEP	2	BM201	Y32	6	12	9650	37	9250				
		BM202	Y32	9	18	5000	20					
		BM203	Y32	4	8	11400	37	11 000				
		BM204	Y16	6	12	7450	20					
		BM205	Y16	6	12	8000	20					
		BM206	Y16	6	12	7450	20					
		BM207	Y16	12	24	2000	37	1000				
		BM208	Y16	18	36	3350	75	800	190	880	280	675
		BM209	Y16	125	250	2600	60	880	280			
		BM210	Y10	246	492	500	85	50	280	50		

MEMBER & SIZE	REINFORCEMENT						SHAPE CODE	DIMENSIONS				
	UNITS	MARK	TYPE & DIA.	No. PER UNIT	TOTAL No.	LENGTH		A	B	C	D	E/R
COLUMNS	12	C01	Y25	8	96	3350	37	3000	200			
		C02	Y10	13	156	1400	60	440	440			
		C03	Y10	26	312	650	35	440				

DRAWING NO.	REFERENCE
5200157-2-001-S-DE-0001-01-00	STILLING BASIN - DETAILS
5200157-2-001-S-DE-0002-01-00	STILLING BASIN - SECTIONS AND DETAILS
5200157-2-001-S-GA-0001-01-00	STILLING BASIN 1 to 8 - GENERAL ARRANGEMENTS
5200157-2-001-S-LA-0001-01-00	STILLING BASIN - LAYOUTS
5200157-2-001-S-SE-0001-01-00	STILLING BASIN - SECTIONS AND DETAILS

REFERENCE DRAWINGS

GENERAL NOTES

1. THE CONTRACTOR SHALL ALLOW FOR ALL STANDARDS/SPECIFICATIONS WHICH ARE REFERRED TO IN THESE NOTES AND WHICH ARE APPLICABLE ON SITE.
2. DRAWINGS MUST NOTE BE SCALED. ONLY WRITTEN DIMENSIONS SHALL BE USED.
3. ALL DIMENSIONS AND LEVELS SHALL BE VERIFIED ON SITE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
4. ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS.
5. CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
   a) CONCRETE WORK TO TRANSNET'S SPECIFICATION 5420 AND SANS 1200G.
   b) CONCRETE PLACING TO BE DONE IN ACCORDANCE WITH SANS 10100 PART 2, CLAUSE 10.2.
   c) CONCRETE CUBE STRENGTHS ARE CHARACTERISTIC STRENGTHS TO SANS 10100 PARTS 1 AND 2
6. CONCRETE STRENGTHS AT 29 DAYS:
   SLABS :40MPa/19mm
   BEAMS :40MPa/19mm
   WALLS :40MPa/19mm
   BLINDING :15MPa/19mm
7. COVER TO REINFORCEMENT:
   WALLS :60mm
   SLABS :60mm
8. ALL EXPOSED CONCRETE TO BE CHAMFERED 20mm x 20mm UNLESS OTHERWISE SHOWN.
9. REINFORCEMENT SHALL COMPLY WITH SANS 920 AND BENT TO SANS 282.
   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).
10. 50mm MAX. BLINDING SHALL BE PROVIDED
11. FORMWORK AND SURFACE FINISH FORMED SURFACES:
    a) VISIBLE SURFACE :SMOOTH
    b) UNEXPOSED SURFACE :ROUGH
12. GROUT TO BE FLOWABLE SELF-LEVELING EPOXY GROUT.
13. STEELWORK TO FABRICATED AND ERECTED IN ACCORDANCE WITH THE SPECIFICATIONS IN SANS 2001-CS1 AND SANS 1921-3.
14. ALL HOT-ROLLED STEEL SECTION AND PLATES TO GRADE S355JR TO EN10025.
15. CORROSION PROTECTION OF STEELWORK:
    ALL STEELWORK INCLUDING BOLTS,NUTS AND WASHERS SHALL BE HOT DIP GALVANIZED TO SANS 121 (ISO 1461), TABLE 3. NUTS WITH OVERSIZED THREADS SHALL BE USED TO COMPENSATE FOR THE GALVANIZING ON THE BOLT THREADS.
16. PAINTING OF STEELWORK TO SANS 1200HC. APPLY SYSTEM 013-016 IN ACCORDANCE WITH SANS 0120HC. COLOUR TO BE DETERMINED BY CLIENT.
17. FABRICATORS TO SUBMIT TWO COPIES OF ALL SHOP DRAWINGS TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO THE COMMENCEMENT OF FABRICATION.

NO.	DESCRIPTION	BY	CHKD	APPD	DATE
00	ISSUED FOR GATE REVIEW	TT	SS	PM	10-10-23

REVISIONS

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CONTRACTOR / CONSULTANT

TITLE	NAME	SIGN	DATE

OPERATING DIVISIONS

TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS

TITLE	NAME	SIGN	DATE
DRAWN	TT		10 10 23
CHECKED	SS		10 10 23
DESIGNED	TT		10 10 23
CHECKED	PM		10 10 23

PR.ENG. / PR.TECH./PR. ARCH

NAME	P. Maharaj	DATE
SIGNATURE		
REG. NUMBER	200970238	
SCALE :	NOTED	A0

Transnet Port Terminals

TRANSNET

SALDANHA STORMWATER MANAGEMENT

MULTIPURPOSE TERMINAL AREA

STILLING BASIN

BEAMS AND COLUMNS REINFORCEMENT DETAIL

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO	SHEET	REV	ID
5200157	00	1	S	LA	0003	01	00	TT