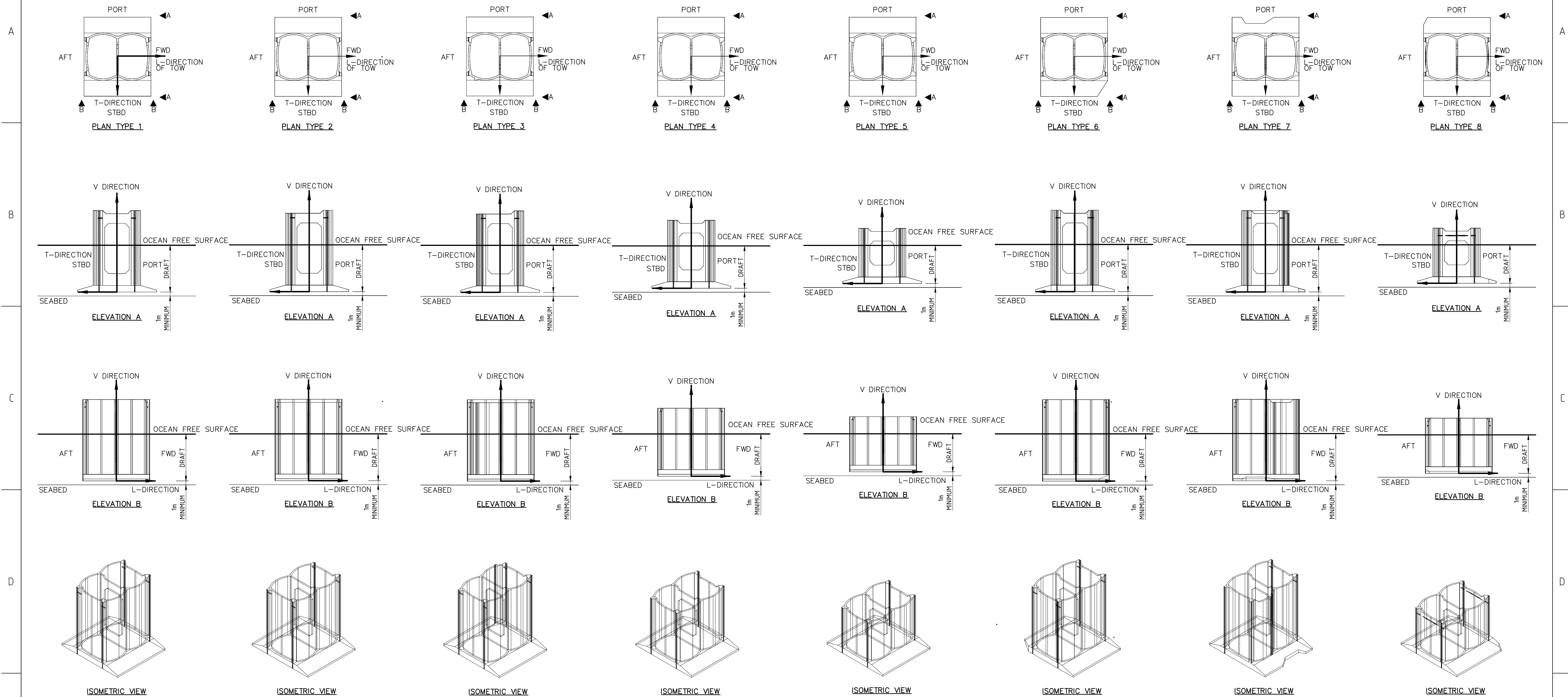


DO NOT SCALE - IF IN DOUBT, ASK



NOTE:  
REF: 1785-CO-000-C-SPC-0002  
CAISSON CONSTRUCTION AND PLACEMENT

PORT OF DURBAN : PIER-2 BERTH DEEPENING : CAISSON TOWING PARAMETERS (Vcg measured from underside of base)																								
Caisson Number	Caisson				Temporary Ballast				Draft					Metacentric Heights GM		Projected Submerged X-Area A1 in direction of tow		Total Submerged Surface Area A2		Projected Dry Wind X-Area A3 in direction of tow		Projected Dry Wind Area A4 perpendicular to direction of tow		
	Mass	Lcg	Vcg	Tcg	Mass	Lcg	Vcg	Tcg	Fore	Aft	Trim Fore-Aft	Port	Stbd	Trim Port-Stbd	Fore-Aft	Port-Stbd	Area	Vcg	Area	Vcg	Area	Vcg	Area	Vcg
	tonne	m	m	m	tonne	m	m	m	m	m	mm	m	m	mm	m	m	m <sup>2</sup>	m	m <sup>2</sup>	m	m <sup>2</sup>	m	m <sup>2</sup>	m
1	2360.600	0.000	5.871	0.000	0.000	0.000	0.000	0.000	11.905	11.904	1	11.904	11.904	0	1.225	0.444	150.219	5.694	1170.551	3.427	99.460	16.057	147.306	16.252
2	2342.000	0.000	5.758	-0.039	20.000	0.000	3.000	4.608	11.912	11.912	0	11.912	11.913	-1	1.365	0.584	150.315	5.698	1172.580	3.442	90.124	15.676	134.127	15.871
3	2355.950	-0.032	5.787	0.005	20.000	3.250	3.000	-1.500	11.971	11.970	1	11.970	11.972	-2	1.362	0.585	151.017	5.727	1195.102	3.570	89.422	15.706	133.136	15.900
4	2153.000	0.004	4.613	0.000	0.000	0.000	0.000	0.000	10.772	10.772	0	10.772	10.772	0	2.081	1.225	136.632	5.132	1125.056	3.110	72.247	13.793	108.890	13.986
5	1956.317	0.004	3.496	0.000	0.000	0.000	0.000	0.000	9.630	9.630	0	9.630	9.630	0	2.850	1.907	122.928	4.567	1058.759	2.661	46.951	11.604	73.181	11.790
6	2354.971	-0.015	5.909	-0.048	20.000	0.900	3.000	7.800	12.005	11.998	7	12.007	12.000	7	1.264	0.485	151.398	5.742	1182.257	3.624	98.281	16.106	145.642	16.301
7	2349.098	0.035	5.928	0.065	25.000	-2.150	3.000	-8.700	12.014	12.010	4	12.011	12.016	-5	1.260	0.484	151.521	5.747	1181.945	3.657	98.158	16.111	145.468	16.306
8	1953.625	0.010	3.494	0.007	20.000	-0.400	3.000	-0.900	9.796	9.799	-3	9.794	9.801	-7	2.889	1.954	124.938	4.650	1058.200	2.677	44.941	11.688	70.343	11.874

Engineers		EPCM CONSULTANT: <b>TNPA</b>		ORIGINATOR: <b>ZAA</b>		Transnet National Ports Authority	
		TITLE		NAME		237 MAHATMA GANDHI ROAD	
		LEAD DES. ENG.		SIGNATURE		DURBAN	
		ENG. COORD.		DATE		P.O. BOX 31683, DURBAN	
		ENG. MANAGER		19/07/26		TEL: 031 361 8852	
		AREA MANAGER		19/07/26		<b>PORT OF DURBAN</b>	
		PROJECT MGR.				DCT BERTHS 203 to 205 RECONSTRUCTION	
		DIVISION				DEEPENING AND LENGTHENING	
		NO.		PR.ENG. / PR. TECH.		<b>CAISSON TOWING</b>	
		DESCRIPTION		NAME		MASS AND HYDROSTATIC PARAMETERS	
		BY/CHK'D		SIGNATURE			
		APP'D		DATE			
		REVISIONS / ISSUE AUTHORIZATION		REG. NUMBER		PROJECT NUMBER	
				760293		2122830	
				SCALE: 1:7 500		DIV	
				OR AS NOTED		FBS	
						DIS	
						TYPE	
						DRG NO.	
						SHT.	
						REV.	
						ID	
						AS	

REFERENCE DRAWINGS

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