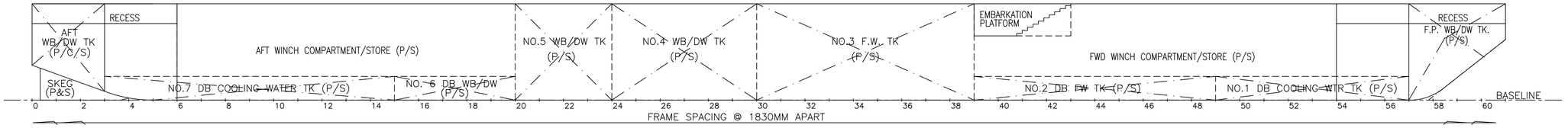

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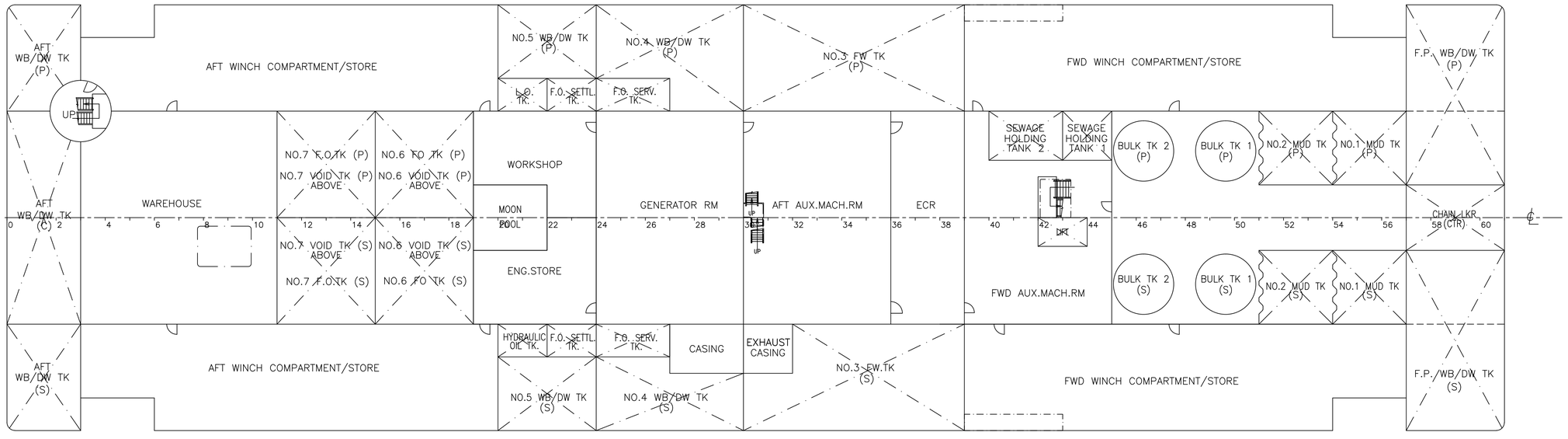
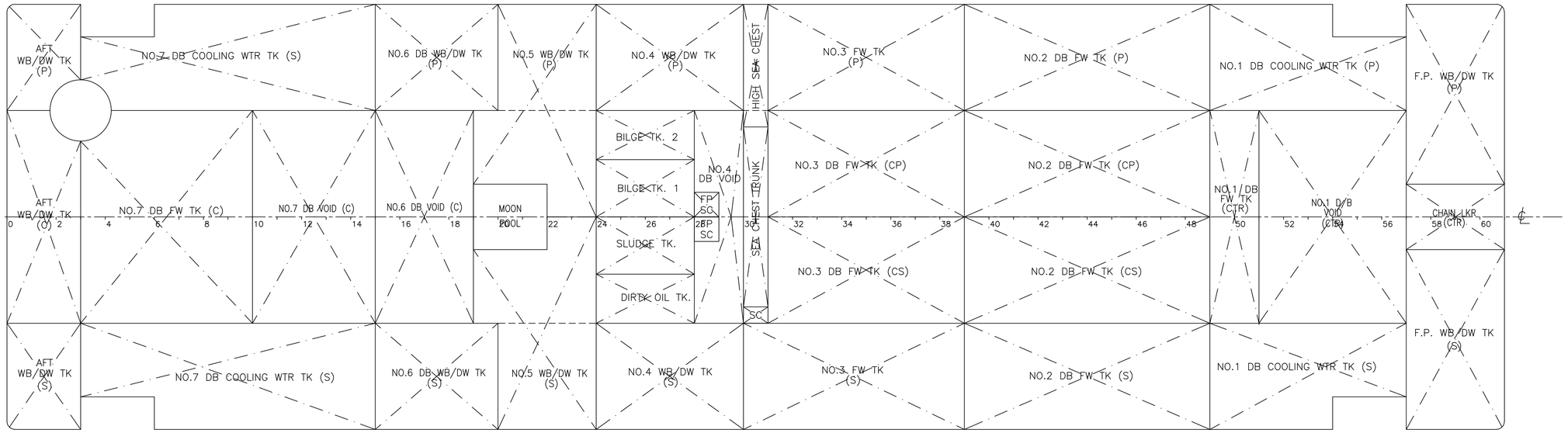


BELOW MAIN DECK



BOTTOM PLAN

TITLE:

ARRANGEMENT OF TANKS

SHIPTECH PTE. LTD.

PROJECT No: ST1567
PAGE 1
DATE 21/10/10
BY GRACE

CAPACITY PLAN

Fuel Oil	Location	Capacitites			L.C.G. From A.P. (M)	T.C.G. Off C.L. (M)	V.C.G. Above B.L. (M)	F.S.M. (T x M)
		100% (M^3)	98% (M^3)	98% (Tonnes)				
NO6 FO TK [P]	Fr 15 - 19	244.16	239.28	208.17	31.110f	3.965p	3.946	259.33
NO6 FO TK [S]	Fr 15 - 19	244.16	239.28	208.17	31.110f	3.965s	3.946	259.33
NO7 FO TK [P]	Fr 11 - 15	244.16	239.28	208.17	23.790f	3.965p	3.946	259.33
NO7 FO TK [S]	Fr 11 - 15	244.16	239.28	208.17	23.790f	3.965s	3.946	259.33
FO SETTLING TK [P]	Fr 22 - 24	34.78	34.09	29.65	42.090f	9.117p	4.101	3.78
FO SETTLING TK [S]	Fr 22 - 24	34.78	34.09	29.65	42.090f	9.117s	4.101	3.78
FO SERVICE TK [P]	Fr 24 - 27	52.17	51.13	44.48	46.665f	9.117p	4.101	5.67
FO SERVICE TK [S]	Fr 24 - 27	52.17	51.13	44.48	46.665f	9.117s	4.101	5.67
Total		**1150.55**	**1127.54**	**980.96**				

Fresh Water	Location	Capacitites			L.C.G. From A.P. (M)	T.C.G. Off C.L. (M)	V.C.G. Above B.L. (M)	F.S.M. (T x M)
		100% (M^3)	98% (M^3)	100% (Tonnes)				
NO1 DB FW TK [C]	Fr 49 - 51	102.38	100.33	102.38	91.500f	0.000	0.900	1192.30
NO2 DB FW TK [CP]	Fr 39 - 49	255.96	250.84	255.96	80.520f	3.965p	0.900	745.18
NO2 DB FW TK [CS]	Fr 39 - 49	255.96	250.84	255.96	80.520f	3.965s	0.900	745.18
NO2 DB FW TK [P]	Fr 39 - 49	255.65	250.54	255.65	80.520f	11.890p	0.900	742.52
NO2 DB FW TK [S]	Fr 39 - 49	255.65	250.54	255.65	80.520f	11.890s	0.900	742.52
NO3 DB FW TK [CP]	Fr 31 - 39	204.77	200.67	204.77	64.050f	3.965p	0.900	596.15
NO3 DB FW TK [CS]	Fr 31 - 39	204.77	200.67	204.77	64.050f	3.965s	0.900	596.15
NO3 FW TK [P]	Fr 30 - 39	908.89	890.71	908.89	63.341f	11.890p	3.733	668.28
NO3 FW TK [S]	Fr 30 - 39	910.49	892.28	910.49	63.304f	11.946s	3.583	668.26
NO7 DB FW TK [C]	Fr 3 - 10	336.94	330.20	336.94	12.182f	0.159s	0.925	3911.57
Total		**3691.46**	**3617.63**	**3691.46**				

Ballast Water / (Drill Water)	Location	Capacitites			L.C.G. From A.P. (M)	T.C.G. Off C.L. (M)	V.C.G. Above B.L. (M)	F.S.M. (T x M)
		100% (M^3)	98% (M^3)	100% (Tonnes)				
FP SWB /DW TK [P]	Fr 57 -61	463.60	454.33	475.19	107.335f	8.634p	4.123	1473.88
FP SWB /DW TK [S]	Fr 57 -61	463.60	454.33	475.19	107.335f	8.634s	4.123	1473.88
NO4 SWB /DW TK [P]	Fr 24 - 30	554.82	543.72	568.69	49.747f	12.230p	3.525	456.60
NO4 SWB /DW TK [S]	Fr 24 - 30	518.85	508.47	531.82	49.580f	12.401s	3.326	456.60
NO5 SWB /DW TK [P]	Fr 19 - 24	428.82	420.24	439.54	40.138f	10.699p	2.761	2124.14
NO5 SWB /DW TK [S]	Fr 19 - 24	428.82	420.24	439.54	40.138f	10.699s	2.761	2124.14
NO6 DB SWB /DW TK [P]	Fr 15 - 20	126.51	123.98	129.67	31.982f	11.855p	0.903	380.54
NO6 DB SWB /DW TK [S]	Fr 15 - 20	127.82	125.27	131.02	32.025f	11.890s	0.900	380.54
AFT SWB /DW TK [P]	Fr 0 - 3	171.13	167.71	175.41	2.710f	12.010p	3.954	185.04
AFT SWB /DW TK [S]	Fr 0 - 3	196.46	192.53	201.37	2.946f	11.609s	3.980	227.07
AFT SWB /DW TK [C]	Fr 0 - 3	457.17	448.03	468.60	2.815f	0.385s	4.470	1622.21
Total		**3937.60**	**3858.85**	**4036.04**				

CAPACITY PLAN

Cooling Water	Location	Capacitites			L.C.G. From A.P. (M)	T.C.G. Off C.L. (M)	V.C.G. Above B.L. (M)	F.S.M. (T x M)
		100% (M^3)	98% (M^3)	100% (Tonnes)				
NO1 DB CW TK [P]	Fr 49 - 57	181.00	177.38	181.00	96.395f	11.533p	0.900	476.26
NO1 DB CW TK [S]	Fr 49 - 57	181.00	177.38	181.00	96.395f	11.533s	0.900	476.26
NO7 DB CW TK [P]	Fr 3 - 15	272.85	267.39	272.85	17.560f	11.737p	0.908	744.97
NO7 DB CW TK [S]	Fr 3 - 15	278.48	272.91	278.48	17.337f	11.679s	0.912	777.89
Total		**913.33**	**895.06**	**913.33**				

Mud	Location	Capacitites			L.C.G. From A.P. (M)	T.C.G. Off C.L. (M)	V.C.G. Above B.L. (M)	F.S.M. (T x M)
		100% (M^3)	98% (M^3)	98% (Tonnes)				
NO1 MUD TK [P]	Fr 54 - 57	158.72	155.55	388.87	101.631f	5.193p	4.555	181.85
NO1 MUD TK [S]	Fr 54 - 57	158.72	155.55	388.87	101.631f	5.193s	4.555	181.85
NO2 MUD TK [P]	Fr 51 - 54	162.75	159.49	398.73	96.211f	5.185p	4.555	185.46
NO2 MUD TK [S]	Fr 51 - 54	162.75	159.49	398.73	96.211f	5.185s	4.555	185.46
Total		**642.94**	**630.09**	**1575.21**				

Dry Bulk	Location	Capacitites			L.C.G. From A.P. (M)	T.C.G. Off C.L. (M)	V.C.G. Above B.L. (M)	F.S.M. (T x M)
		100% (M^3)	98% (M^3)	98% (Tonnes)				
NO1 BULK TK [P]	Fr 45 - 47	53.32	52.26	112.88	90.857f	4.960p	4.060	44.13
NO1 BULK TK [S]	Fr 45 - 47	53.32	52.26	112.88	90.857f	4.960s	4.060	44.13
NO2 BULK TK [P]	Fr 49 - 51	53.32	52.26	112.88	84.729f	4.960p	4.060	44.13
NO2 BULK TK [S]	Fr 49 - 51	53.32	52.26	112.88	84.729f	4.960s	4.060	44.13
Total		**213.30**	**209.03**	**451.51**				

Miscellaneous	Location	Capacitites			L.C.G. From A.P. (M)	T.C.G. Off C.L. (M)	V.C.G. Above B.L. (M)	F.S.M. (T x M)
		100% (M^3)	98% (M^3)	98% (Tonnes)				
LUBE OIL TK [P]	Fr 20 - 22	34.78	34.09	31.50	38.430f	9.117p	4.101	4.01
HYD OIL TK [S]	Fr 20 - 22	34.78	34.09	31.50	38.430f	9.117s	4.101	4.01
DB BILGE TK 1 [P]	Fr 24 - 28	55.13	54.03	54.03	47.580f	2.135p	0.900	46.54
DB BILGE TK 2 [P]	Fr 24 - 28	47.25	46.31	46.31	47.580f	6.100p	0.900	29.3
DB SLUDGE TK [S]	Fr 24 - 28	55.13	54.02	47.00	47.580f	2.135s	0.900	40.49
DB DIRTY OIL TK [S]	Fr 24 - 28	47.25	46.31	40.29	47.580f	6.100s	0.900	25.49
SEWAGE HOLDING TK1 [P]	Fr 43 - 45	39.97	39.17	40.15	80.520f	6.100p	4.570	15.02
SEWAGE HOLDING TK2 [P]	Fr 40 - 43	59.95	58.75	60.22	75.945f	6.100p	4.570	22.53

CAPACITY PLAN

Notes:

1) Free Surface Moment (F.S.M.) are given for Maximum values at even trim & heel condition.
2) L.C.G., T.C.G. & V.C.G. are taken at 100% Capacity.
3) Assumed Specific Gravity as:

Fuel Oil:	0.870	Dirty Oil:	0.870
Fresh Water:	1.000	Sludge:	0.870
Ballast Water:	1.025	Sewage:	1.025
Cooling Water:	1.000	Mud:	2.500
Lube Oil:	0.924	Bulk:	2.160
Bilge:	1.000	Drill Water:	1.000