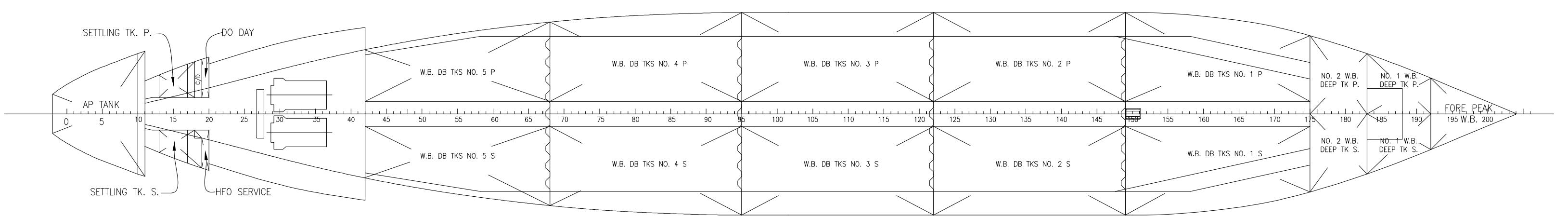
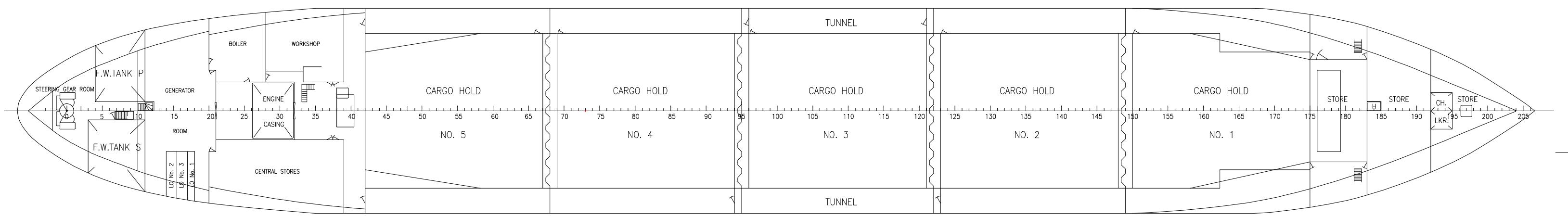
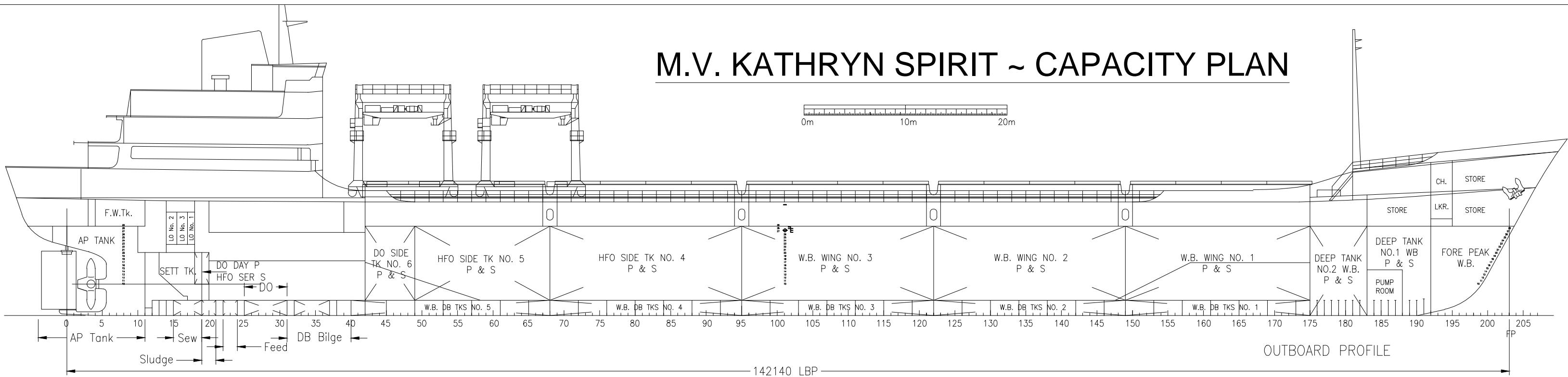


# M.V. KATHRYN SPIRIT ~ CAPACITY PLAN



## CARGO HOLDS

Cargo Tanks	Frames	Capacity		Centre of Gravity		Max. cargo @ 1.39 m^3/t (Tonnes)
		(m^3)	(ft^3)	Ab. Base (m)	Fwd AP (m)	
No. 1 Cargo Hold	149 ~ 175	2554	90190	7.33	112.81	1837
No. 2 Cargo Hold	122 ~ 149	3180	112297	7.08	94.72	2288
No. 3 Cargo Hold	95 ~ 122	3180	112297	7.08	75.82	2288
No. 4 Cargo Hold	68 ~ 95	3180	112297	7.08	56.92	2288
No. 5 Cargo Hold	42 ~ 68	3058	107988	7.18	38.35	2200
		15152	535068	7.14	74.49	10901

## BALLAST TANKS CAPACITIES

Ballast Tanks	Frames	Capacity		Centre of Gravity		FSM in SG = 1.0 (tonne-m)
		Cubic M^3	S.W. (MT)	VCG ab. (m)	LCG fwd (m)	
Fore Peak	192 - Stem	98.0	100.5	6.144	136.630	50.1
Deep Tank No. 1 P	183 - 192	110.5	113.3	6.152	131.297	53.9
Deep Tank No. 1 S	183 - 192	153.8	157.6	5.345	130.815	59.5
Deep Tank No. 2 P & S	175 - 183	460.4	471.9	5.107	125.135	296.0
DB Tank No. 1 P & S	149 - 175	199.8	204.8	0.869	111.969	495.0
DB Tank No. 2 P & S	122 - 149	360.4	369.4	0.841	94.394	1585.4
DB Tank No. 3 P & S	95 - 122	411.6	421.9	0.837	75.918	2091.0
DB Tank No. 4 P & S	68 - 95	395.4	405.3	0.835	57.303	1902.6
DB Tank No. 5 P	40 - 68	149.0	152.7	0.838	38.889	494.4
DB Tank No. 5 S	40 - 68	148.1	151.8	0.837	38.952	483.4
Wing Tank No. 1 P & S	149 - 175	391.4	401.2	5.830	113.202	90.8
Wing Tank No. 2 P & S	122 - 149	623.4	639.0	5.330	94.447	47.4
Wing Tank No. 3 P & S	95 - 122	675.2	692.1	5.156	75.939	47.8
Aft Peak	B - 11	133.1	136.4	6.627	4.675	387.7
Total		4310.1	4417.9			

Note: no free-surface effect if ballast tanks are pressed full

## FRESH WATER TANKS CAPACITIES

FW Tanks	Frames	Capacity		Centre of Gravity		FSM in SG = 1.0 (tonne-m)
		Cubic M^3	(MT)	VCG ab. (m)	LCG fwd (m)	
Reserve Feed Water	22 ~ 24	11.1	11.1	0.860	16.114	29.1
Fresh Water Tank Port	4 ~ 11	53.7	53.7	10.127	5.390	64.2
Fresh Water Tank Stbd	3 ~ 11	59.6	59.6	10.127	5.099	69.8
Total		124.4	124.4			

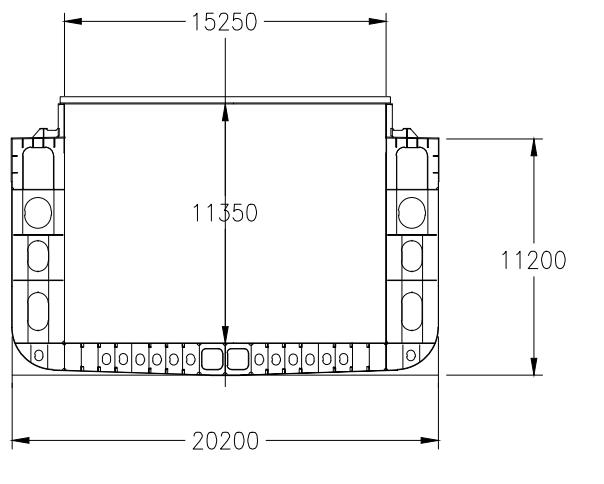
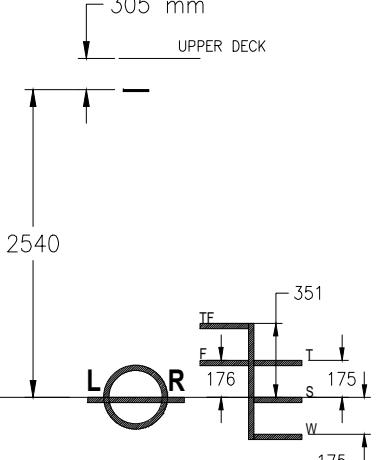
## PRINCIPAL PARTICULARS:

LENGTH OVERALL 153.38 m  
LENGTH B.P. 142.14 m  
BREADTH MLD. 20.20 m  
DEPTH MLD. 11.20 m

830871  
9261  
HAMILTON, ONTARIO  
2 x 20t MUNCH GANTRY CRANES ON RAILS  
2 x 4000C.V. at 425 RPM

## DEADWEIGHT SCALE

DRAFT	DEADWEIGHT (t) F.W.	TPC S.W.	DRAFT
29	14000	14000	9M
28	13000	13000	25
27	12000	12000	8M
26	11000	11000	24
25	10000	10000	23
24	9000	9000	7M
23	8000	8000	22
22	7000	7000	21
21	6000	6000	20
20	5000	5000	19
19	4000	4000	18
18	3000	3000	17
17	2000	2000	16
16	1000	1000	15
15	0	0	14
14	3000	3000	13
13	2000	2000	12
12	1000	1000	11
11	0	0	10
10	0	0	9
9	0	0	20



LIGHTSHIP WEIGHT = 4782 TONNES  
DEADWEIGHT IN METRIC TONS OF 1,000 kg  
TO OBTAIN CARGO DEADWEIGHT, FUEL, FW, LO, SHIP  
STORES AND BALLAST MUST BE DEDUCTED

## FUEL & LUBE OIL TANKS CAPACITIES

Heavy Fuel Oil	Frames	Capacity		Centre of Gravity		FSM in SG = 0.9 (tonne-m)
		Cubic M^3	SG = 0.9 (MT)	VCG ab. (m)	LCG fwd (m)	
Wing Tank No. 4 Port	68 ~ 95	331.5	298.4	5.205	57.168	21.5
Wing Tank No. 4 Stbd	68 ~ 95	331.5	298.4	5.205	57.168	21.5
Wing Tank No. 5 Port	49 ~ 68	186.6	167.9	5.629	41.398	14.7
Wing Tank No. 5 Stbd	49 ~ 68	186.6	167.9	5.629	41.398	14.7
Day Tank Stbd	18 ~ 20	7.7	6.9	4.599	13.503	3.7
Settling Tank Port	13 ~ 18	18.5	16.7	4.794	11.176	5.8
Settling Tank Stbd	13 ~ 19	23.7	21.3	4.665	11.584	7.7
Total		1086.1	977.5			

Diesel Oil	Frames	Capacity		Centre of Gravity		FSM in SG = 0.86 (tonne-m)
		Cubic M^3	SG = 0.86 (MT)	VCG ab. (m)	LCG fwd (m)	
Wing Tank No. 6 Port	42 ~ 49	50.0	43.0	5.876	31.931	4.2
Wing Tank No. 6 Stbd	42 ~ 49	50.0	43.0	5.876	31.931	4.2
DB Tank No. 7 Ctr	25 ~ 31	34.4	29.6	0.785	19.920	145.6
Day Tank Port	19 ~ 20	6.1	5.2	4.667	13.655	2.73
Total		14				