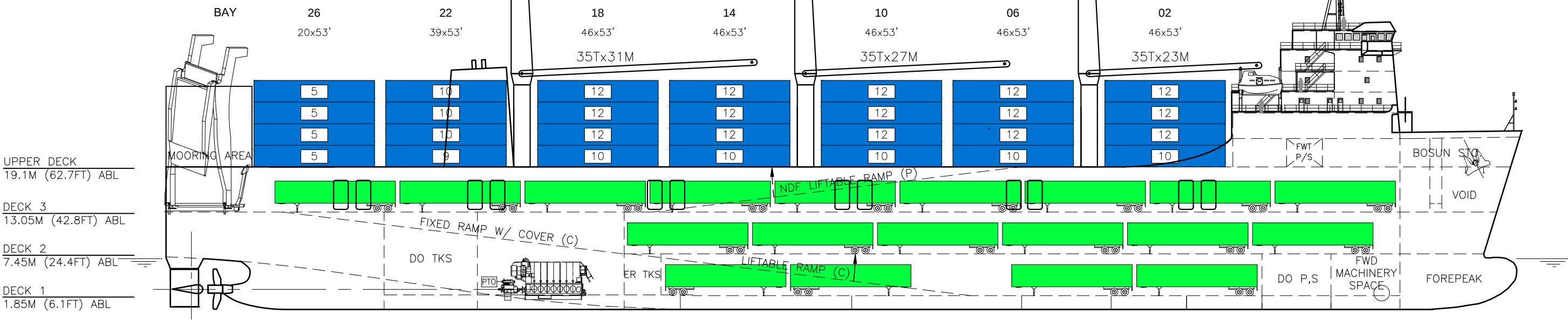


12 - AMH RoCon Large 18kt

All Bays can handle
40'/45'/53' containers.



Principal Particulars

MAIN DIMENSIONS

Length, Over All	181.7 m	596.1 ft
Length, Between Perp.	172.0 m	564.3 ft
Beam	32.2 m	105.6 ft
Depth	18.5 m	60.7 ft
Design Draft	6.8 m	22.4 ft
Dwt. at Design Draft	11,034 MT	
Cb at Design Draft	0.61	

HULL PROPORTIONS

L/B	5.3
B/T	4.7
B/D	1.7
L/D	9.3

CARGO

	Wt/Unit	Full Load Quantity	Full Load Weight
53' Containers	22	289	6,358
53' Trailers	20	125	2,500
Total ‡		1,159 TEU	8,858 MT
Reefer Outlets	50		

FULL LOAD CONDITION

Cargo Weight	8,858 MT
Consumables (98%)	2,076 MT
Ballast	0 MT
Constant	100 MT
Lightship	12,846 MT
Displacement	23,880 MT
Estimated GM	2.1 m

PROPULSION

Suggested Engine	2xMAN 7L51/60DF 2xWartsila 7L50DF
Speed at design draft	18.3 knots
Operating Power	12,600 kW *
MCR	14,000 kW
RPM	514

RANGE & CONSUMPTION

M/E Fuel Consumption†	59.7 MT/Day
M/E & D/G Fuel (no reefers)	63.4 MT/Day
Range (MGO)	~10,000 nm
Range (LNG)	4,000 nm

TANK CAPACITIES

Marine Gas Oil	2,100 m ³
LNG (if provided)	1,300 m ³
Fresh Water	380 m ³
Ballast Water	TBD m ³

Legend:

	53' Trailer
	53' Container

Notes:

† Fuel Consumption is based on MGO at the operating power.
LNG propulsion is an option and will require added storage tanks.
‡ Count assumes 2.8TEU/53' Trailer/Container
* Operating power is at design speed and draft with 15% sea margin



DRWN CNC
CHKD EVR
DATE 05-27-11
FILE 2010-083



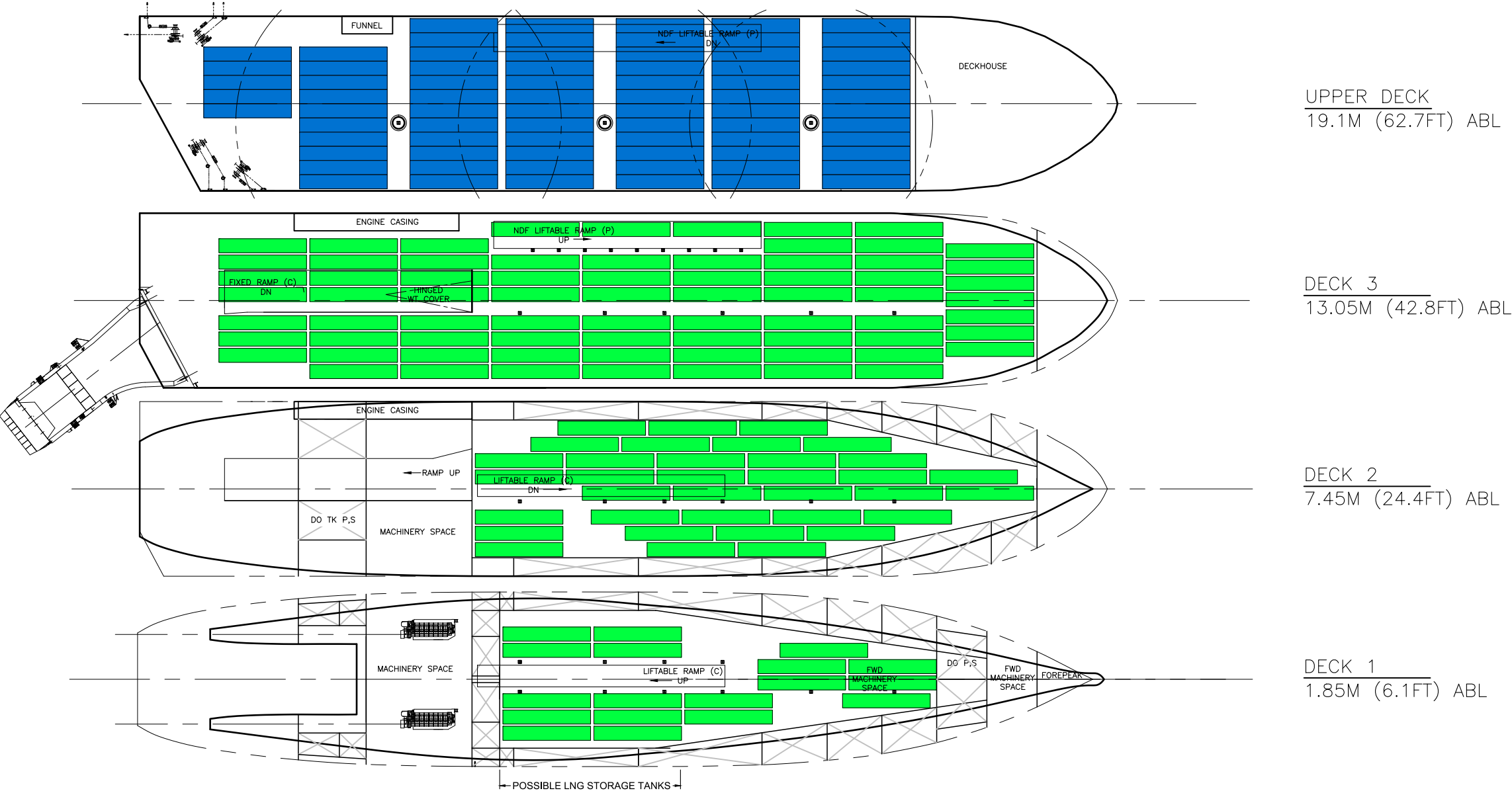
U.S. Maritime Administration

AMERICAN MARINE HIGHWAY
DESIGN CONCEPT

TYPE Large 18kt
CLASS RoCon

2010-083-050-12
Sheet 1 of 2 Rev. -

12 - AMH RoCon Large 18kt



RORO DECKS	HEIGHT OF DECK	HEIGHT TO DECK ABOVE	DEPTH OF STRUCT OF DECK ABOVE	CLEAR HEIGHT FOR VEHICLES		NET AREA		LANE LENGTH		SAMPLE STOW		DECK STRENGTH	
	m	m	m	m	ft	m ²	ft ²	lane-m	lane-ft	# trailers	# containers	t/m ²	PSF
Upper Deck	19.1	open	-	-	-	3,452	37,156	1,148	3,766	-	289	1.5	300
Deck 3	13.05	6.05	1.3	4.75	15.6	4,650	50,051	1,389	4,557	72	-	1.7	350
Deck 2	7.45	5.6	1.1	4.5	14.8	2,312	24,886	616	2,021	35	-	1.25	250
Deck 1	1.85	5.6	1.1	4.5	14.8	1,520	16,361	379	1,243	18	-	1.25	250
Total						11,934	128,454	3,532	11,588	125	289		

Legend:

53' Trailer

53' Container