



M/V TAI XING

WAVE XING



中波轮船股份公司

CHINESE-POLISH JOINT STOCK SHIPPING COMPANY

M/V TAI XING

Ship Information

Ship's Name	TAI XING
IMO No	9930909
Call Sign	VRUJ2
Nationality	HONG KONG
Port of Registry	HONG KONG
Official Number	HK-5583
Builder	Chengxi Shipyard Co., Ltd.

MAIN PARTICULARS

Length overall	199.90 m
Length between perp.	196.50 m
Breadth moulded	32.26 m
Depth moulded	19.30 m
Design draught	11.30 m
Scantling draught	13.50 m
Deadweight at design draught	48,191.4 t
Deadweight at scantling draught	61,710.9 t
Endurance	18,000 nm
Complement	26

Tonnage Measurement

International	
Gross Tonnage	39,433
Net Tonnage	19,469
Panama Canal	
Net Tonnage	
SUEZ Canal	
Gross Tonnage	

CLASSIFICATION

DNVGL

+1A, General dry cargo ship; HC(A), Holds 2,4 may be empty; Strengthened (IB), Grab(3-20); COAT-PSPC(B); CONTAINER, SAFELASH, LCS; DG(B,P), DBC, BIS, BW(M,T), Recyclable, E0, TMON(Oil lubricated), ER(SCR, TIII)

CCS

★CSA General Dry Cargo Ship; Holds Nos. 2,4 may be Empty; Strengthened For Heavy Cargoes; Equipped with Container Securing Arrangements; Grab*(20); PSPC(B); SOLAS II-2 Reg.19; Loading Computer(S,I,G); In-Water Survey
★CSM AUT-0; SCM; BWMS; BWMP; GPR(EU); NEC(SCRS)

CARGO CAPACITY AND EQUIPMENT

Cargo holds (Bulk)	
No.1 Cargo Hold	9,409 m ³
No.2 Cargo Hold	15,818 m ³
No.3 Cargo Hold	21,146 m ³
No.4 Cargo Hold	15,818 m ³
No.5 Cargo Hold	12,669 m ³

Hatch covers	Folding type
Uniform load	3.5 t/m ²

Containers	
On weather deck	804 TEU

Opening of Cargo Hatch	
No.1 Hatchway	17.22m x 24.50/19.40m
No.2 Hatchway	26.24m x 27.46m
No.3 Hatchway	36.08m x 27.46m
No.4 Hatchway	26.24m x 27.46m
No.5 Hatchway	21.32m x 27.46m

Tween decks (in all cargo holds)	Pontoon type
	Non-sequence (except No.1 CH)
Uniform load	3.0 t/m ²

Cargo cranes	4 sets
No.1 & 4 Crane	45t X 38m / 80t X 24m
No.2 & 3 Crane	60t X 38m / 150t X 18m
Max. combine lift	300t

MACHINERY MAIN COMPONENTS

Main engine	MAN B&W 6G50ME-C9.6 HPSCR
SMCR	8000 Kw x 83.0 r/min
CSR	6400 Kw x 77.1 r/min
Diesel generators	3 x 750 kW

PROPELLER

Material	Ni-Al-Bronze Cu3
Type	Fixed pitch propeller
Diameter	6900 mm
Number of blades	4
Mean pitch	5923 mm

ENERGY EFFICIENCY PARTICULARS

Service speed	14.5 kn
(At design draught, CSR, with 15% SM)	
ME fuel oil consumption at CSR	24.65 t/d
EEDI	phase 3 compliant

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Cargo Description

The vessel is designed and built as a single screw driven double-skin heavy-lift multi-purpose vessel for normal worldwide service.

The vessel is constructed and fitted up so as to be capable of carrying wide range of commodities, e.g. containers, dry bulk cargos, grain, general cargoes, project cargoes, steel coil, heavy cargoes, paper pulp and long pieces, etc

The following IMDG dangerous goods can be loaded:

Cargo hold:

- Bulk goods except class 4.3
- Package form of class 1.4S, 2.2, 3, 4.1, 4.2, 5.1, 6.1, 8, 9

Remarks for goods in cargo hold:

- In class 3, only $23^{\circ}\text{C} \leq \text{F.P.} \leq 60^{\circ}\text{C}$ to be carried.
- In class 6.1, only solids can be loaded
- In class 8, solids and liquids with $\text{F.P.} > 60^{\circ}\text{C}$ to be loaded
- In class 9, other than goods evolving flammable vapor to be loaded
- In class 4.1, 4.2, 5.1, 6.1 and 9, goods require mechanically ventilated spaces not to be loaded
- In class 5.1, goods require protected from sources of heat not to be loaded
- In class 6.1, goods having a subsidiary risk not to be loaded
- Carriage of dangerous goods which in bulk form of not mechanical ventilation and not need cargo spaces remain tightly sealed and the inert condition maintained.
- Stowage adjacent to sources of heat, including fuel tanks which may require heating is not permitted, not insulation to be installed on the bulkhead of cargo hold region.

Weather Hatch Cover:

- All dangerous goods in package form

Deckhouse before accommodation

- All dangerous goods in package form except in class 1.1 to 1.6

BUNKER STATION ON STERN

Position	Upper Deck
Number	2 (P&S)
Height	19.3 m above keel

FIRE FIGHTING SYSTEM

CO ₂ Quantity	257 bottles (45kg)
Maker	VTI FIRE PRODUCTS CO.,LTD
Detector type	
Cargo Hold	Smoke
Engine Room	Ionization / Thermal

AIR CONDITIONING FOR ACCOMMODATION

Air Handling Unit	
Maker	DMA
A/C Plant Compressor	
Quantity	2 SETS
Maker	DMA

REFRIGERATION MACHINERY

Compressor	
Quantity	2 SETS
Maker	DMA
Condenser	
Quantity	2 SETS
Maker	DMA
Refrigerant	
Quantity	1 SET
Maker	DMA

RADIO & NAVIGATION EQUIPMENT

Radio station	1 SET FURUNO
Gyro compass	1 SET KEIKI
Autopilot	1 SET KEIKI
Radar	3 SETS FURUNO
ERIPB	1 SET OCEAN SIGNAL
Inmarsat C	2 SETS FURUNO
AIS	1 SET FURUNO
Inmarsat F	1 SET FURUNO
GPS	2 SETS FURUNO
Speed log	1 SET FURUNO
Echo sounder	1 SET FURUNO
VHF	2 SETS FURUNO
Navtex receiver	1 SET FURUNO
VHF two way telephone	3 SETS ENTEL
Facsimile receiver	1 SET JMC
Radar transponder	2 SETS OCEAN SIGNAL

M/V TAI XING

Rules and regulations

a) Rules and Regulations of Classification Society

b) Maritime laws and regulations of flag authority

c) International rules and regulations

- International Load Line Convention (1966) including amendments 1971, 1975, 1979 & 1983 and protocol 1988 and latest amendment.
- International Convention for the Safety of Life at Sea (SOLAS 1974), with protocol 1978, 1988 including all and latest amendments
- International Convention for the Prevention of Pollution from ships, 73/78 (Annex I, IV, V & VI) and all amendments.
- International Regulations for Preventing Collisions at Sea (London 1972) including latest revision
- International Telecommunications Convention 1982 and Radio Regulation, Edition of 2012
- International Regulation on Tonnage Measurement of ships, 1969
- Maritime Labor Convention (MLC) 2006, Title 3, Regulation Standard A3.1 (except swimming pool).
- 2008 IS Code – International Code on Intact Stability, 2008
- IMO Resolution MSC. 23 (59) (International Grain Code)
- IMO Resolution MSC. 137 (76) “Standards for Ship Maneuverability “
- IMO Resolution MSC. 215 (82) (PSPC coating standard)
- IMO Resolution A. 868 (20) “Guidelines for the control and management of ships’ ballast water to minimize the transfer of harmful aquatic organisms and pathogens”
- International Convention for the Control and Management of Ship’s Ballast Water and Sediments, 2004 (BWM Convention)
- IMSBC Code – International Maritime Solid Bulk Cargoes Code
- IMDG Code
- All IACS Unified Requirements for strength applicable to New Building of the vessel which has been formal published at the date of signing contract.
- International marine pilots association requirements
- Singapore MPA (3 green round lights)
- IMO Resolution MSC.337(91) “Adoption of the code on noise levels on board ships”.
- ISO 6954-2000 guidelines for vibrations on board ships

- IMO Resolution MEPC.308 (73), “2018 Guidelines on the method of calculation of the attained energy efficiency design index (EEDI) for new ships”
- IMO Resolution MEPC.254 (67), “2014 Guidelines on survey and certification of the energy efficiency design index (EEDI)” and Amendments.
- EU Directive 1999/32/EC, amended by 2005/33/EC and 2012/33/EU, which specifies limits on the sulphur content of marine fuels
- IEC Publication No.60092, Electrical installation in ships where required by the Classification Society
- ICS Guide to Helicopter / Ship Operation (winching operation only)
- International Ship & Port Facility Security Code (ISPS Code) only limited to ship security alert system, IMO number and locking device
- IMO Resolution MSC.1/Circ.1352 “Amendments to the code of safe practice for cargo stowage and securing (CSS CODE), 2010” and IACS UI SC265
- AFS - International Convention on the Control of Harmful Anti-Fouling Systems on Ships, 2001
- Regulation (EU) No. 1257/2013 of the European Parliament and of the Council of 20 November 2013 on ship recycling and amending Regulation (EC) No. 1013/2006 and Directive 2009/16/EC (only Statement of Compliance)
- IMO Res. A.962 (23) IMO Guidelines on Ship Recycling Convention 2009 amended by Res. A.980 (24) (Inventory of Hazardous Materials Only).
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d) Special rules and regulations

- Rules and Regulations governing navigation of Suez Canal, including tonnage measurement
- Rules and Regulation governing navigation of the Panama Canal (including new panama lock) including tonnage measurement
- U.S. Coast Guard Regulations applying to foreign flag vessel trading in U.S. waters concerning pollution prevention with compliance statement
- Australian Maritime Safety Authority MARINE ORDERS Part 32 “Cargo Handling Equipment” Issue 2, Compilation No.1 prepared on 29 November 2011 (for ladders in cargo hold/deck and access to container onboard for loading and unloading and for material handling equipment) (The newest AMSA Part 32 issue 3 to be applied especially in regard to ladders, entrances, passageways, etc.)
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CREW AND CABIN LOCATION

Cabins	Berths	Rooms	Deck
Captain	1	2	D deck
C/ENG.	1	2	D deck
Pilot	1	1	D deck
4th. ENG.	1	1	D deck
CHIEF OFF.	1	2	C deck
2nd ENG.	1	2	C deck
OWNER	1	2	C deck
BOATSWAIN	1	1	C deck
ELE.ENG.	1	1	C deck
CARPENTER	1	1	C deck
2nd OFF.	1	1	B deck
3rd.ENG.	1	1	B deck
STOREKEEPER	1	1	B deck
MOTORMAN	3	3	B/Poop deck
3rd. OFF	1	1	B deck
SEAMAN	6	6	B/A/Poop deck
C.STEWARD	1	1	A deck
COOK	1	1	A deck
SPARE	1	1	Poop deck

LOADING COMPUTER

Maker
Software Cload

SHORE CONNECTION

Electric power
3 phase

WINCHES

Manufacture WMMP
Electric comb anchor-double drum mooring winch
Quantity
Powered for rated pull at windlass part 95KW X2
Powered for rated pull at mooring part 95KW X2
Max brake loading force 2172KN/530.4
Electric self-tensioning mooring winch
Quantity 0
Powered for rated pull at mooring part
Warping head no load speed

FRESH WATER GENERATOR

Type SWD 20-80
Capacity 20 m³/24h (2.0ppm)
Maker ALFA-LAVAL

MAIN/EMERGENCY DIESEL GENERATOR ENGINE

Main Diesel Generator
Quantity 3 SETS
Type CMP-MAN 6L23/30H
Capacity 750kW x 720 r/min
Emergency Diesel Generator
Quantity 1 SET
Type AD136TIS
Auxiliary generator Capacity 120kW x 1800 r/min

MAIN AIR COMPRESSOR

Quantity 2 SETS
Type WP200
Capacity 200m³/h x 3.0MPa
Maker SAUER

OLY WATER SEPARATOR

Quantity 1 SET
Type 3SEP OWS5.0
Capacity 5m³/h, 15ppm
Maker JOWA

BOILER

Type Aalborg i-OC
Maker ALFA LAVAL
Exhaust Economizer
Quantity 1 SET
Capacity 800kg/h
Fuel Oil Economizer
Quantity 1 SET
Capacity 1500kg/h

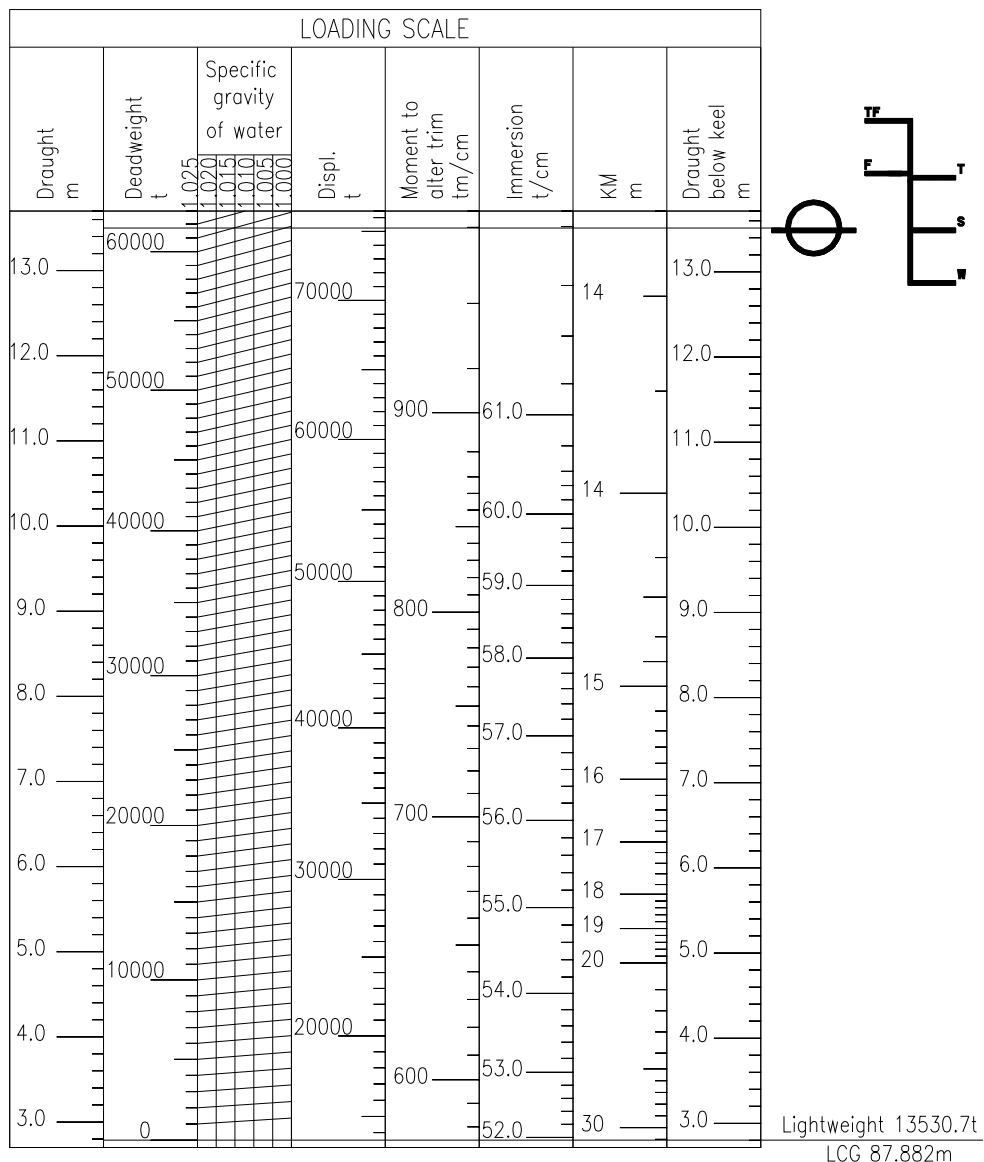
LIFE SAVING APPLIANCE

Life Boat
Quantity 1 set
Type free fall lifeboat
Maker JIANGSU JIAOYAN
Rescue Boat
Quantity 1 set
Type FRP RESCUE BOAT
Maker JIANGSU JIAOYAN
Davit Inflatable Life Raft
Quantity 2
Type SELF-RIGHTING

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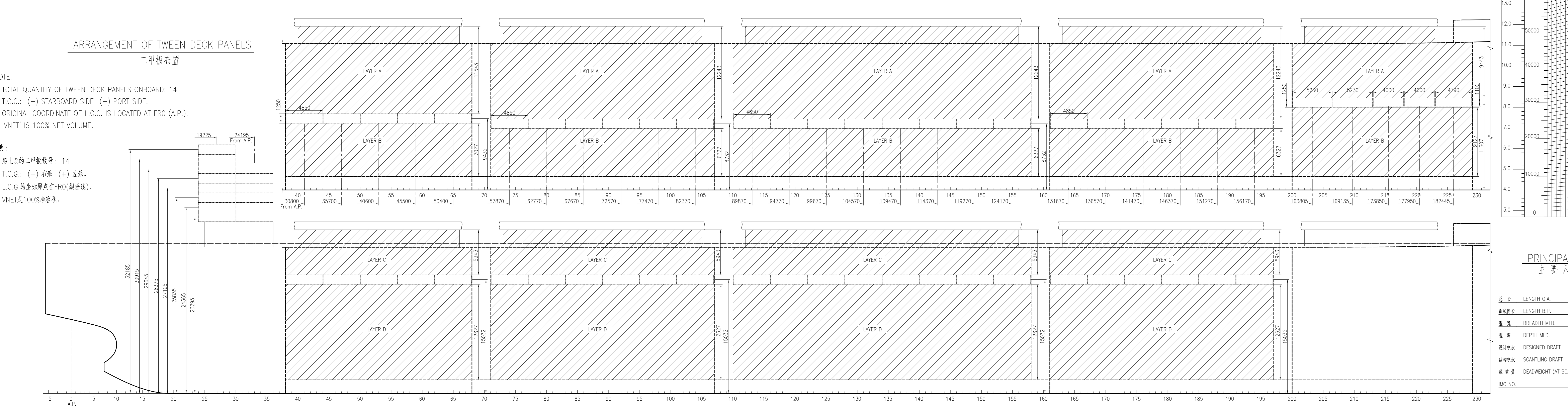
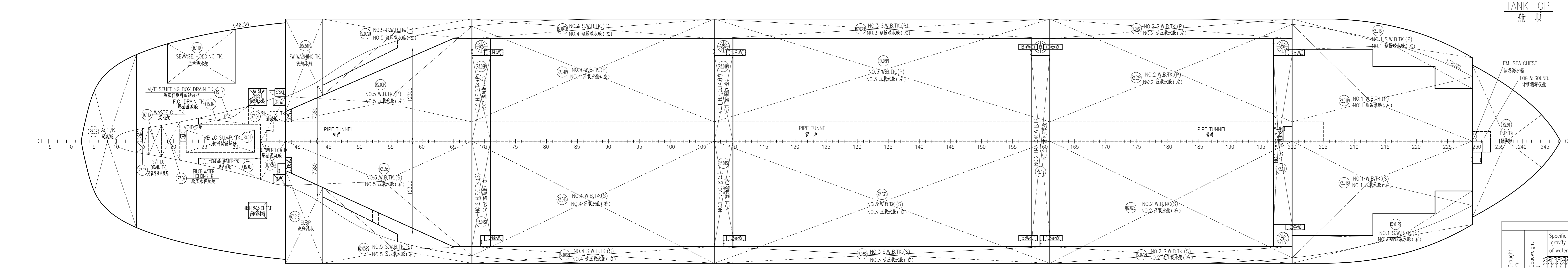
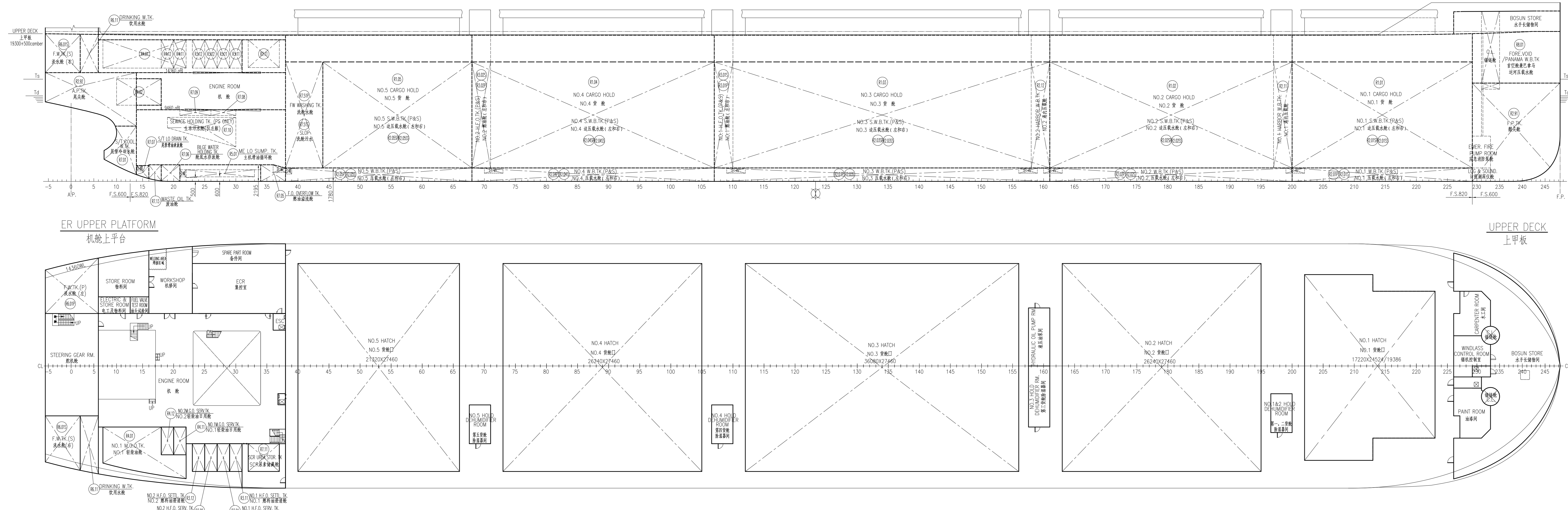
AIR DRAFT (m)			
Description	Height above BL	Da = 8.0 m Df = 6.5m	Da = 13.5m Df = 13.5m
Radar Mast (FR15)	49.86	41.96	36.36
Top of Crane No.2 (FR165)	48.29	41.29	34.79

FREEBOARD MARK AND DEADWEIGHT SCALE					
Mark	Description	Freeboard mm	Draught Moulded m	Displacement t	Deadweight t
S	Summer	5840	13.500	75241.6	61710.9
F	Summer Fresh Water	5536	13.804	75240.5	61709.8
T	Tropic	5559	13.781	76979.2	63448.5
TF	Tropic Fresh Water	5255	14.085	76938.0	63407.3
W	Winter	6121	13.219	73506.2	59975.5



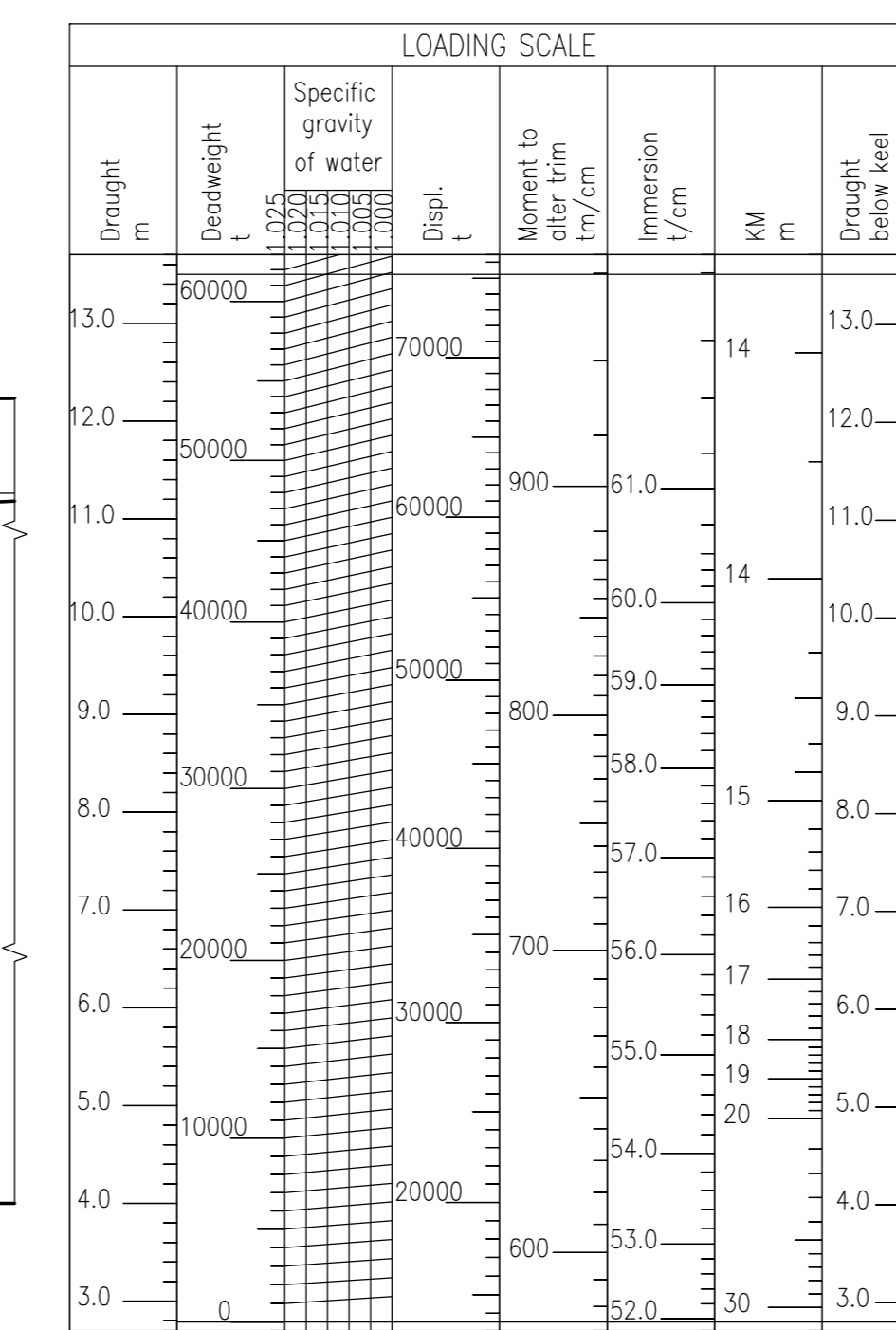
TANK CAPACITY

NAME	DESCRIPTION	FRAME	VNET m3	WEIGHT t	LCG m	TCG m	VCG m	FRSM tm
A). Homog. Cargo (RED=0.005, RHO=1t/m3, Max. Fill Capacity=100%)								
R1.01	NO. 1 CARGO HOLD	200~229	9409.63	9409.63	171.67	-0.03	11.51	19018.8
R1.02	NO. 2 CARGO HOLD	161~197	15818.23	15818.23	143.92	-0.20	11.59	50682.7
R1.03	NO. 3 CARGO HOLD	110~158	21146.94	21146.94	107.02	-0.20	11.62	67576.9
R1.04	NO. 4 CARGO HOLD	71~107	15818.23	15818.23	70.12	-0.20	11.59	50682.7
R1.05	NO. 5 CARGO HOLD	38~68	12669.87	12669.87	40.86	-0.19	11.89	42235.6
SUBTOTAL			74862.90	74862.90	103.95	-0.18	11.64	230196.7
B). Water Ballast (RED=0.02, RHO=1.025t/m3, Max. Fill Capacity=100%)								
R2.01P	NO. 1 W. B. TK. (P)	200~229	448.53	459.74	172.03	6.10	0.95	4433.3
R2.01S	NO. 1 W. B. TK. (S)	200~229	466.56	478.22	171.69	-5.92	0.95	4739.4
R2.01SP	NO. 1 S. W. B. TK. (P)	200~229	1265.43	1297.07	173.26	12.08	9.04	529.2
R2.01SS	NO. 1 S. W. B. TK. (S)	200~229	1266.98	1298.65	173.82	-11.91	9.04	597.9
R2.02P	NO. 2 W. B. TK. (P)	161~200	722.40	740.46	144.92	9.01	0.91	6591.8
R2.02S	NO. 2 W. B. TK. (S)	161~200	862.98	884.55	144.96	-7.75	0.91	11012.1
R2.02SP	NO. 2 S. W. B. TK. (P)	161~200	1141.93	1170.48	145.15	14.83	8.78	47.2
R2.02SS	NO. 2 S. W. B. TK. (S)	161~200	966.43	990.59	145.15	-15.03	8.78	28.6
R2.03P	NO. 3 W. B. TK. (P)	107~161	1021.10	1046.63	107.02	9.14	0.90	9344.6
R2.03S	NO. 3 W. B. TK. (S)	107~161	1215.75	1246.14	107.02	-7.87	0.90	15555.7
R2.03SP	NO. 3 S. W. B. TK. (P)	107~161	1579.75	1619.24	107.02	14.83	8.78	65.2
R2.03SS	NO. 3 S. W. B. TK. (S)	107~161	1336.74	1370.16	107.02	-15.03	8.78	39.5
R2.04P	NO. 4 W. B. TK. (P)	68~107	715.69	733.59	69.21	8.96	0.91	6495.1
R2.04S	NO. 4 W. B. TK. (S)	68~107	856.27	877.68	69.16	-7.69	0.91	10874.3
R2.04SP	NO. 4 S. W. B. TK. (P)	68~107	1140.93	1169.45	68.89	14.83	8.78	47.1
R2.04SS	NO. 4 S. W. B. TK. (S)	68~107	965.42	989.56	68.89	-15.03	8.78	28.5
R2.05P	NO. 5 W. B. TK. (P)	38~68	299.04	306.52	43.49	6.72	0.98	2177.0
R2.05S	NO. 5 W. B. TK. (S)	38~68	406.22	416.38	42.73	-5.26	0.96	3967.8
R2.05SP	NO. 5 S. W. B. TK. (P)	44~68	691.02	708.29	42.85	14.31	8.80	225.0
R2.05SS	NO. 5 S. W. B. TK. (S)	44~68	588.55	603.26	42.77	-14.45	8.75	201.2
R2.11	NO. 1 HARBOR W. B. TK	197~200	722.28	740.33	159.88	0.13	8.78	2288.2
R2.12	NO. 2 HARBOR W. B. TK	158~161	826.30	846.96	127.91	-0.92	8.78	3038.0
R2.91	F. P. TK.	229~248	1607.47	1647.65	189.33	0.04	7.05	3208.4
R2.92	A. P. TK.	-6~14	1307.33	1340.01	3.29	0.09	11.96	18463.6
R8.01	FORE VOID/PANAMA	229~248	991.05	1015.82	189.48	0.04	16.62	6626.0
SUBTOTAL			23412.14	23997.45	117.06	0.36	6.84	110624.6
C). Heavy Fuel Oil (RED=0.02, RHO=0.98t/m3, Max. Fill Capacity=98%)								
R3.01P	NO. 1 H. F. O. TK. (P)	107~110	382.33	367.19	86.11	5.66	8.78	286.2
R3.01S	NO. 1 H. F. O. TK. (S)	107~110	443.97	426.39	86.08	-6.60	8.78	456.5
R3.02P	NO. 2 H. F. O. TK. (P)	68~71	382.33	367.19	54.13	5.66	8.78	286.2
R3.02S	NO. 2 H. F. O. TK. (S)	68~71	443.97	426.39	54.10	-6.60	8.78	456.5
R3.11	NO. 1 H. F. O. SETT. .	29~31	21.47	20.62	21.74	-12.08	16.88	6.5
R3.12	NO. 2 H. F. O. SETT. .	23~25	21.47	20.62	16.82	-12.08	16.88	6.5
R3.21	NO. 1 H. F. O. SERV. T.	27~29	21.47	20.62	20.10	-12.08	16.88	6.5
R3.22	NO. 2 H. F. O. SERV. T.	25~27	21.47	20.62	18.46	-12.08	16.88	6.5
SUBTOTAL			1738.49	1669.65	67.59	-1.48	9.18	1511.3
D). diesel Oil (RED=0.02, RHO=0.85t/m3, Max. Fill Capacity=98%)								
R4.01	NO. 1 M. G. O. TK.	7~22	191.94	159.88	9.10	-11.35	16.93	159.1
R4.02	NO. 2 M. G. O. TK.	10~18	195.50	162.85	9.60	-6.19	12.01	686.2
R4.11	NO. 1 M. G. O. SERV. T.	20~22	21.51	17.92	14.36	-9.88	16.88	5.6
R4.12	NO. 2 M. G. O. SERV. T.	18~20	21.51	17.92	12.72	-9.88	16.88	5.6
SUBTOTAL			430.45	358.56	9.77	-8.86	14.69	856.5
E). Lubricating Oil (RED=0.02, RHO=0.9t/m3, Max. Fill Capacity=98%)								
R5.01	M/E L. O. SUMP. TK.	22~33	24.39	21.51	19.63	0.00	1.06	16.7
R5.11	M/E L. O. STOR. TK	14~18	33.03	29.13	10.26	3.99	11.81	6.1
R5.21	M/E L. O. SETT. TK	14~18	24.77	21.85	10.26	6.56	11.81	2.6
R5.31	G/E L. O. STOR. TK.	14~18	14.18	12.50	10.26	1.89	11.81	0.5
R5.41	G/E L. O. SETT. TK.	14~18	14.18	12.50	10.26	0.63	11.81	0.5
R5.51	NO. 1 CYL. OIL STOR.	14~18	33.03	29.13	10.26	9.13	11.81	6.1
R5.52	NO. 2 CYL. OIL STOR.	14~18	25.68	22.65	10.35	11.82	12.07	7.1
SUBTOTAL			169.25	149.28	11.62	5.52	10.30	39.6



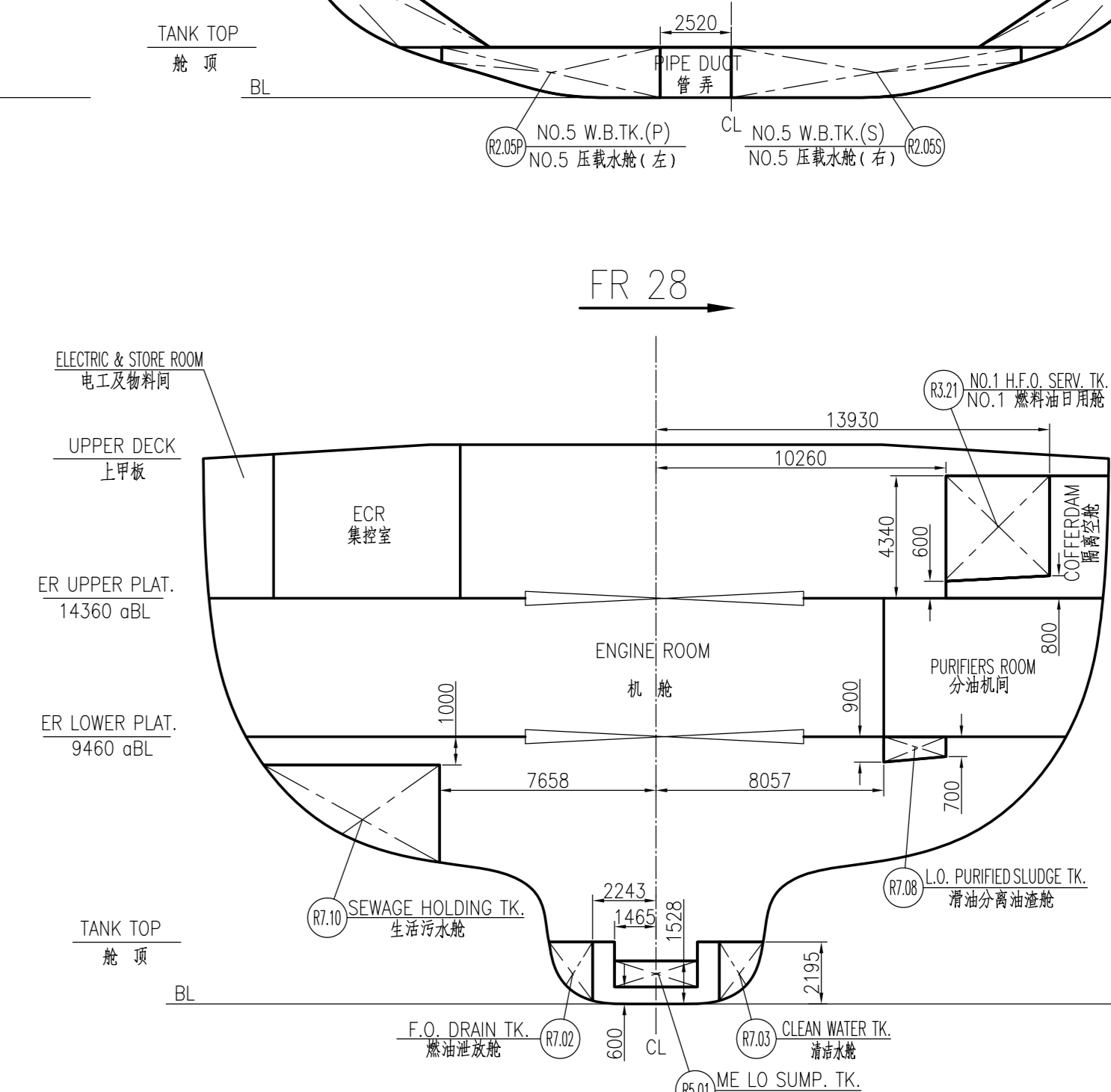
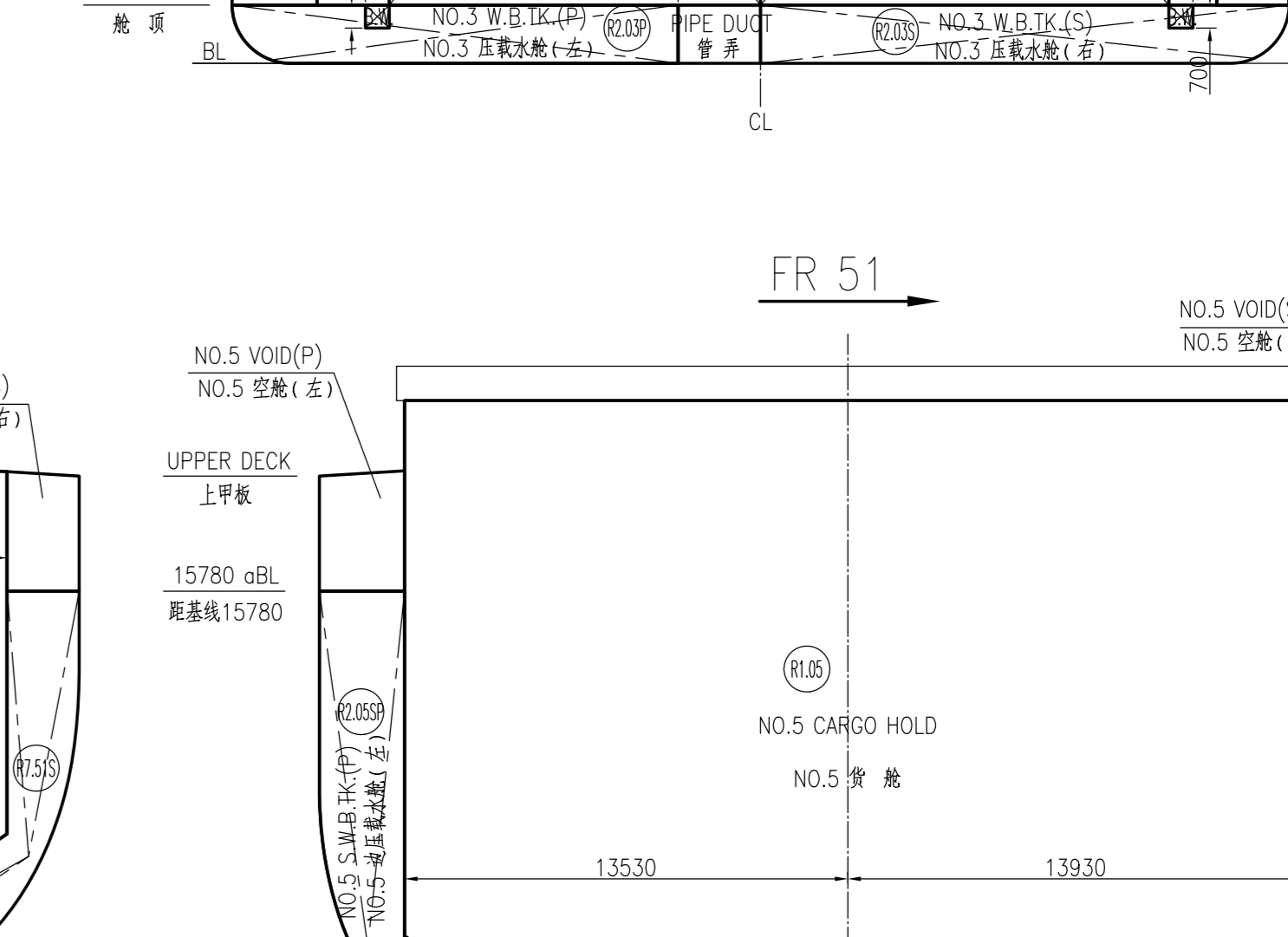
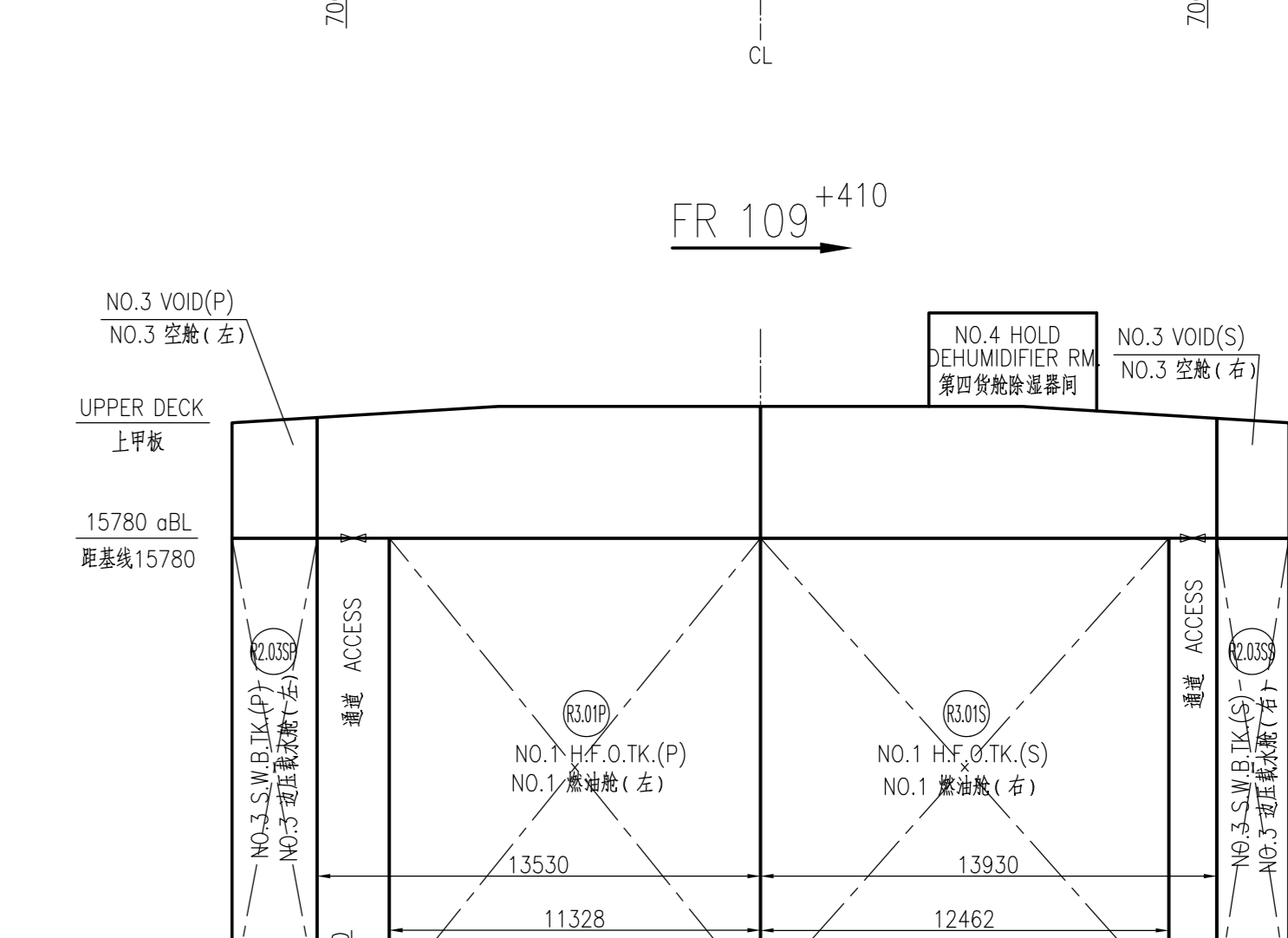
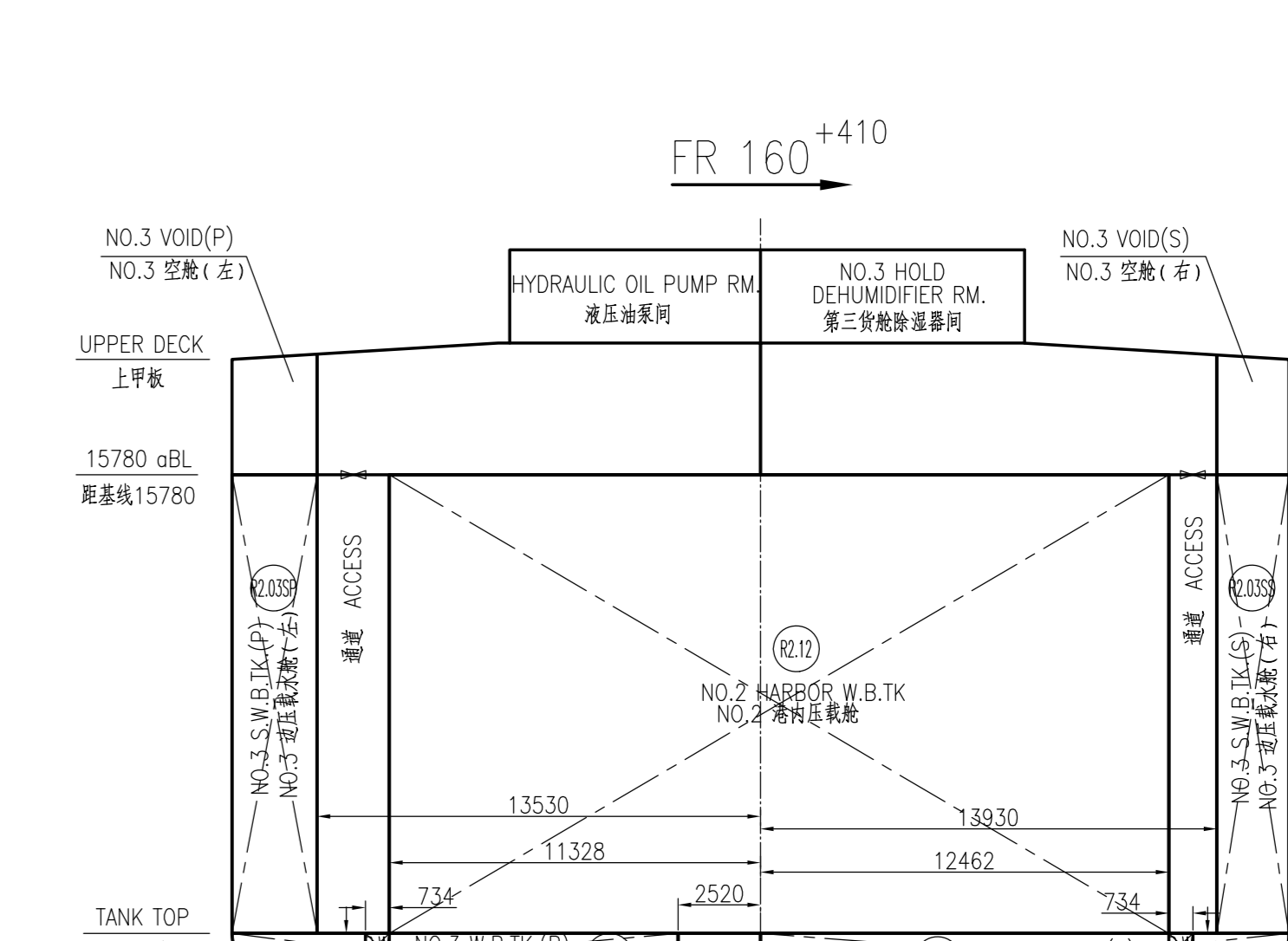
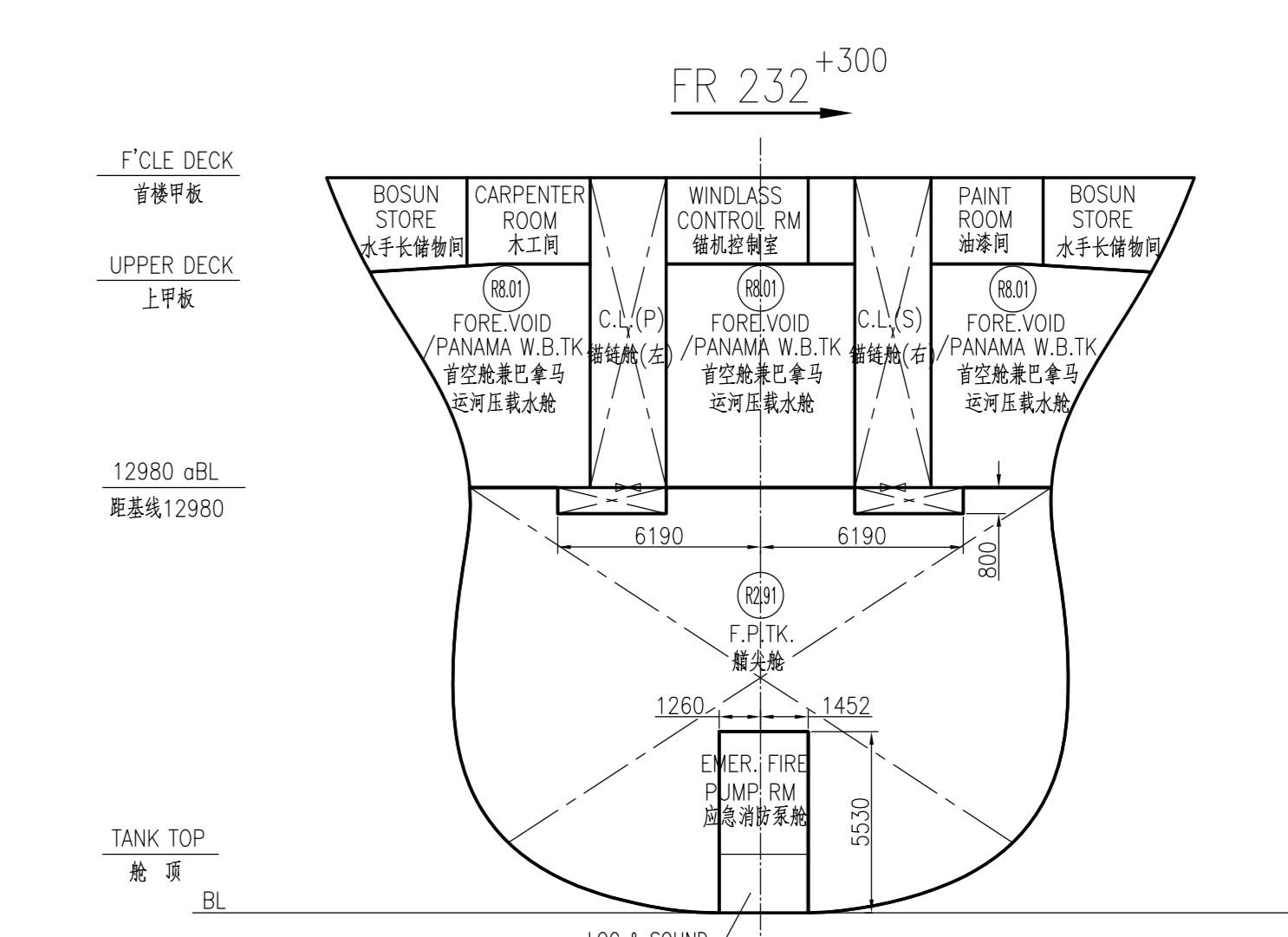
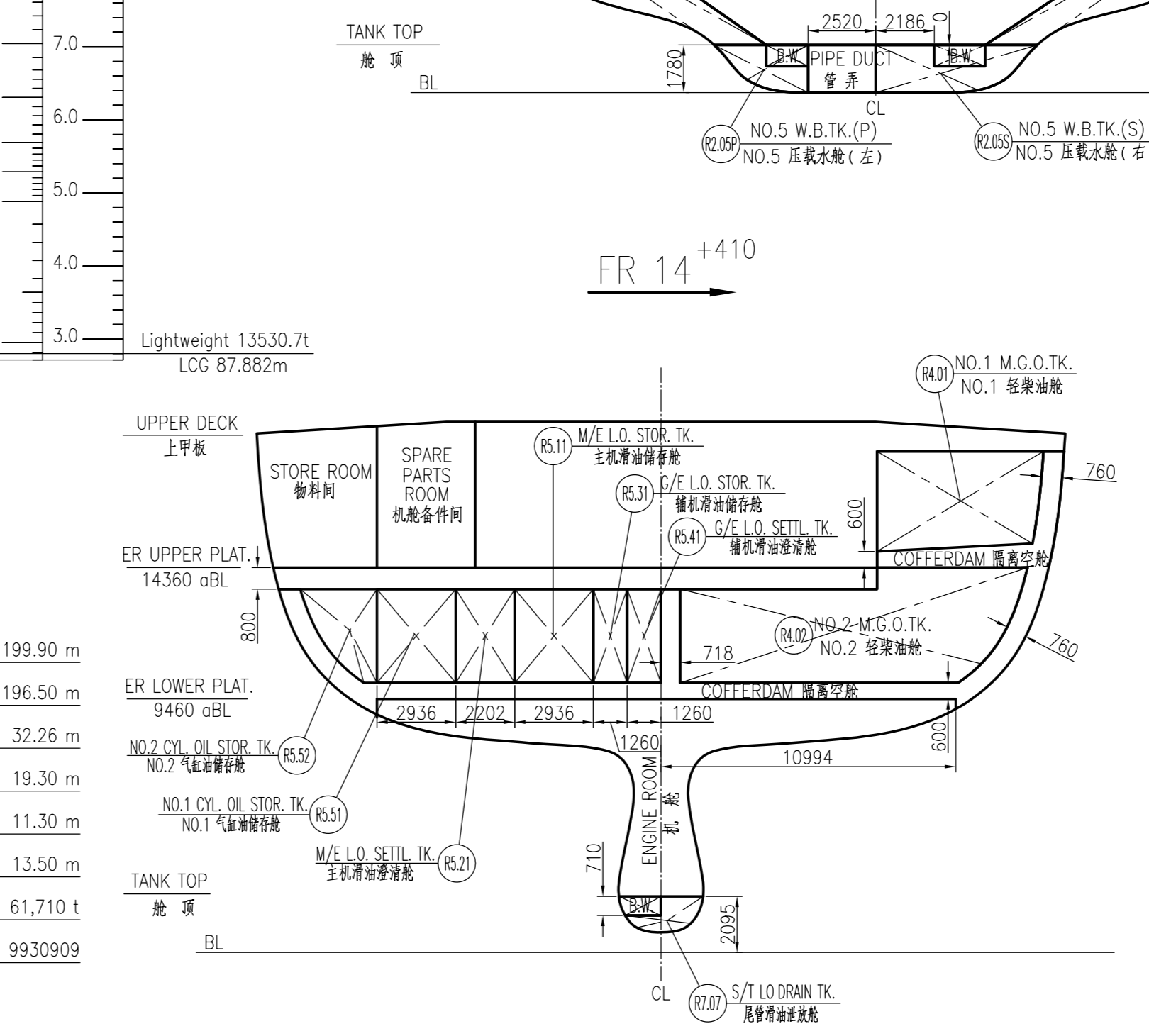
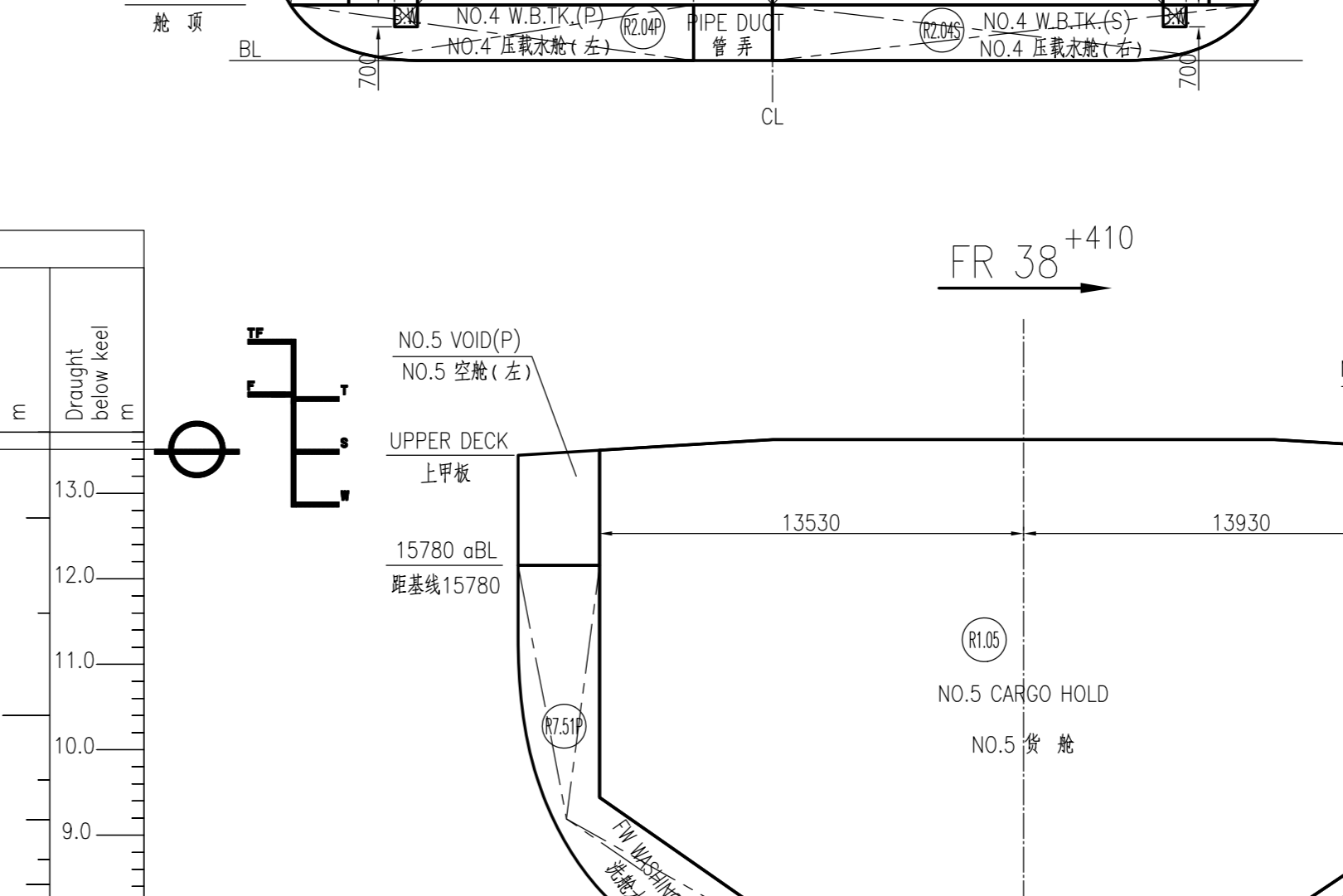
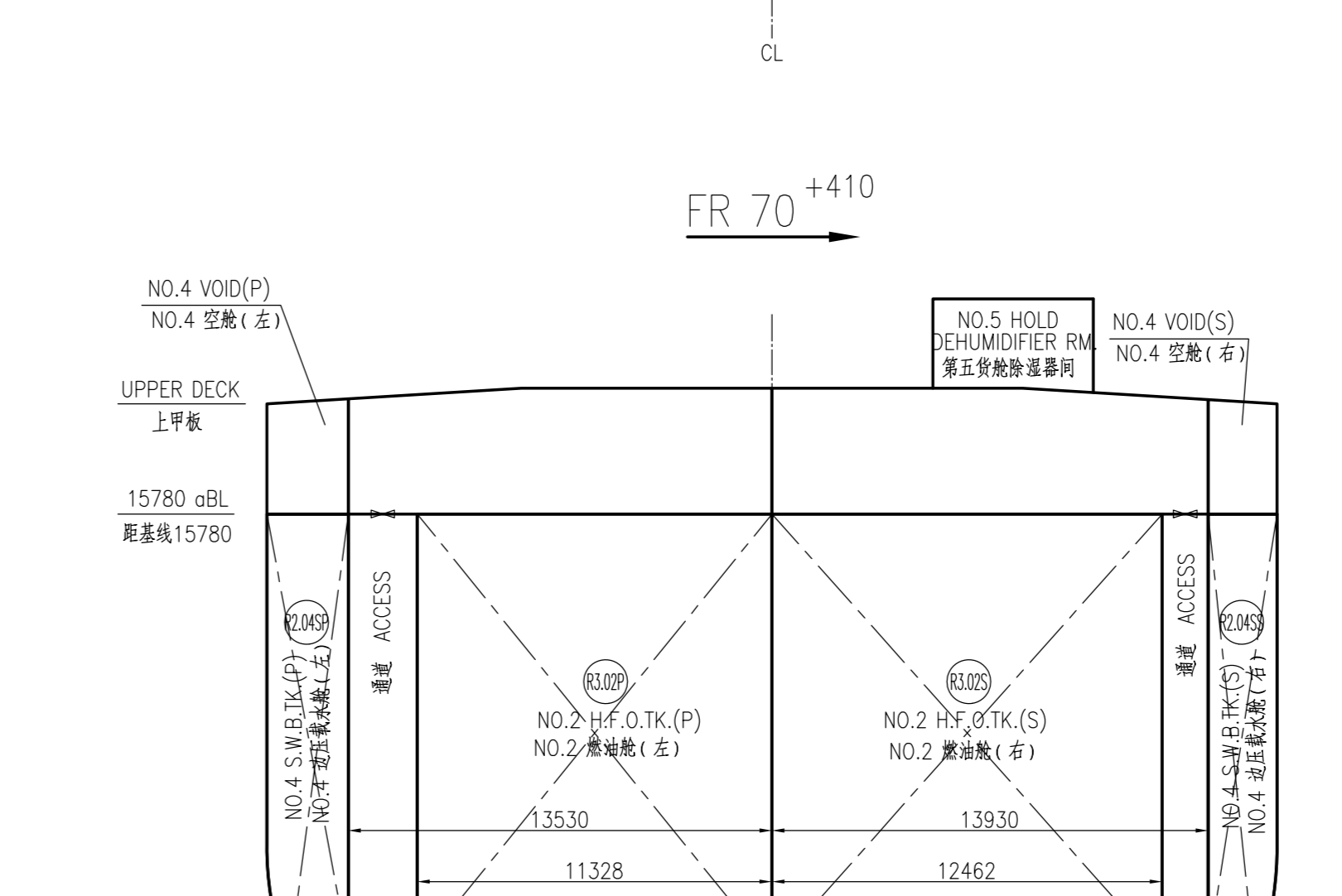
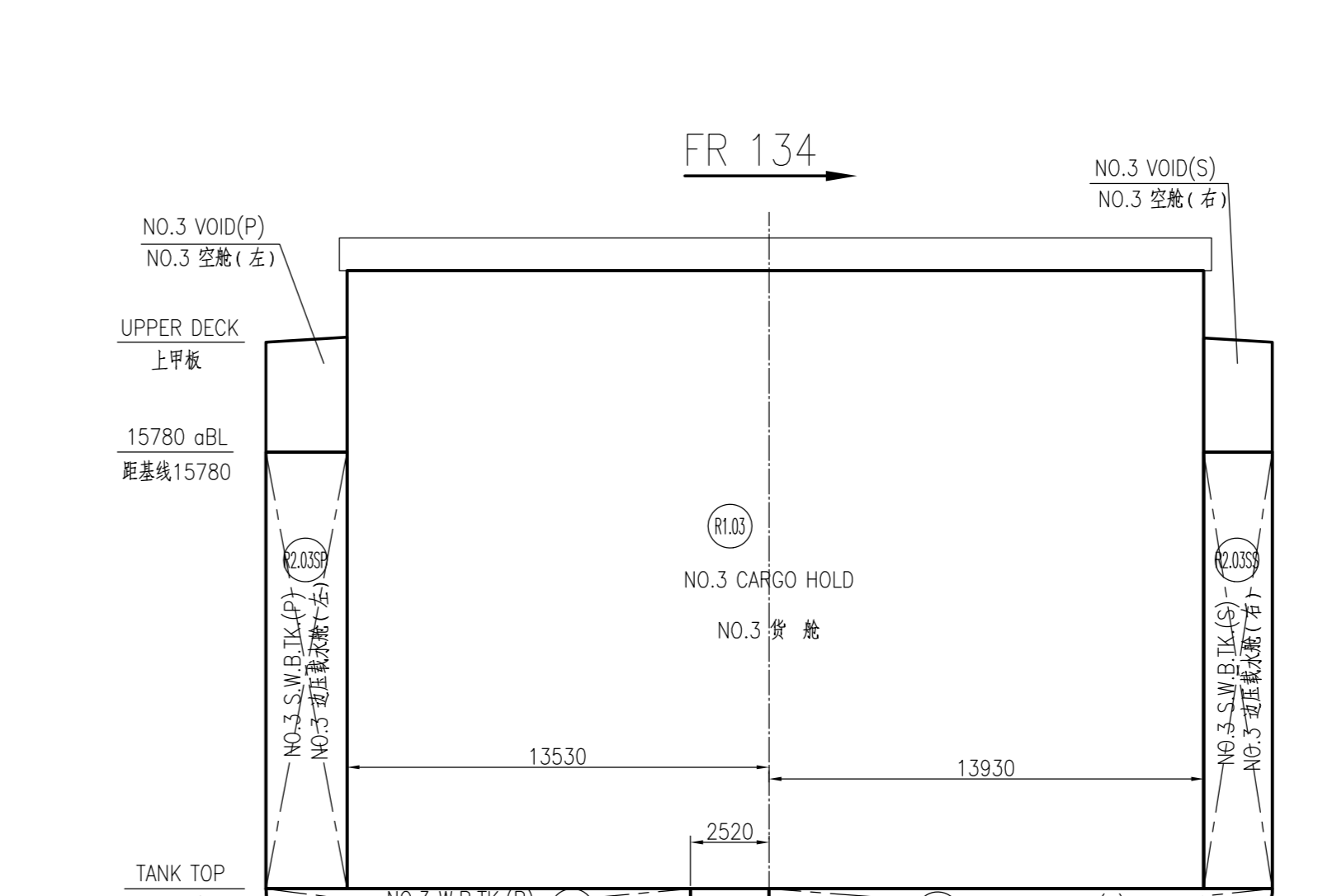
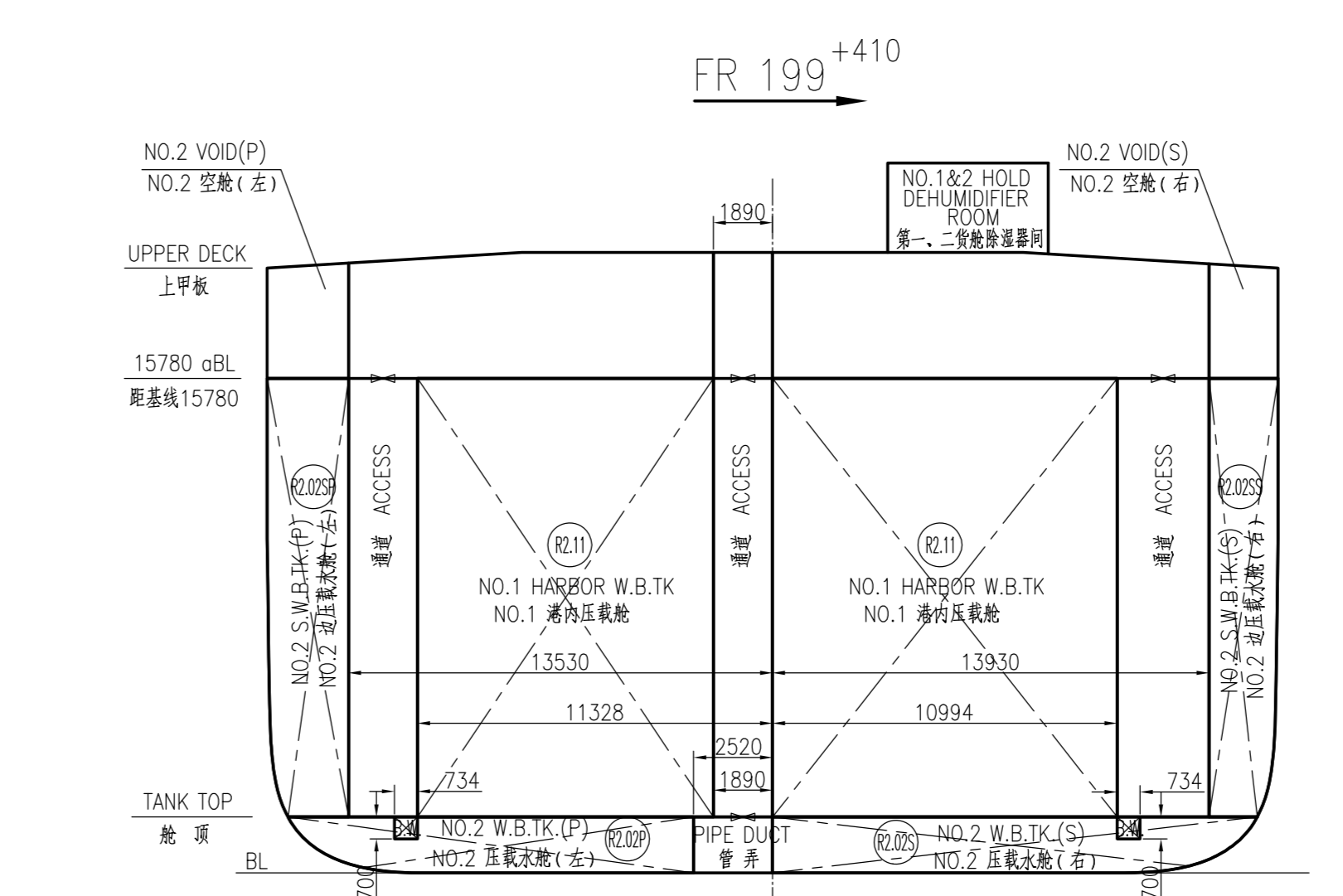
NOTE:
 1. TOTAL QUANTITY OF TWEEN DECK PANELS ONBOARD: 14
 2. T.C.G.: (-) STARBOARD SIDE (+) PORT SIDE.
 3. ORIGINAL COORDINATE OF L.C.G. IS LOCATED AT FR0 (A.P.).
 4. VNET IS 100% NET VOLUME.

说明:
 1. 船上二甲板数量: 14
 2. T.C.G.: (-) 右舷 (+) 左舷.
 3. L.C.G.的坐标原点在FR0(艏柱).
 4. VNET是100%净容积.



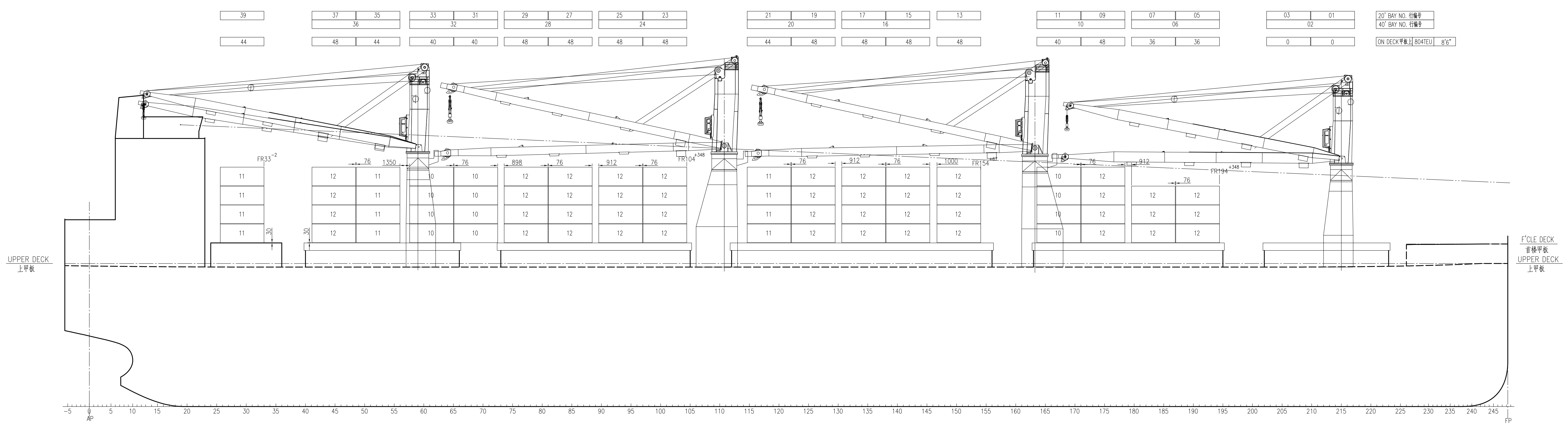
PRINCIPAL DIMENSIONS 主要尺度及数据

船体长度	LENGTH O.A.	199.90 m
船体长度	LENGTH S.P.	196.50 m
船体宽度	BREADTH MLD.	32.26 m
船体深度	DEPTH MLD.	19.30 m
设计吃水	DESIGNED DRAFT	11.30 m
设计吃水	SCANTLING DRAFT	13.50 m
排水量	DEADWEIGHT (AT SCANTLING DRAFT)	61,710 t
NO. NO.		9930909

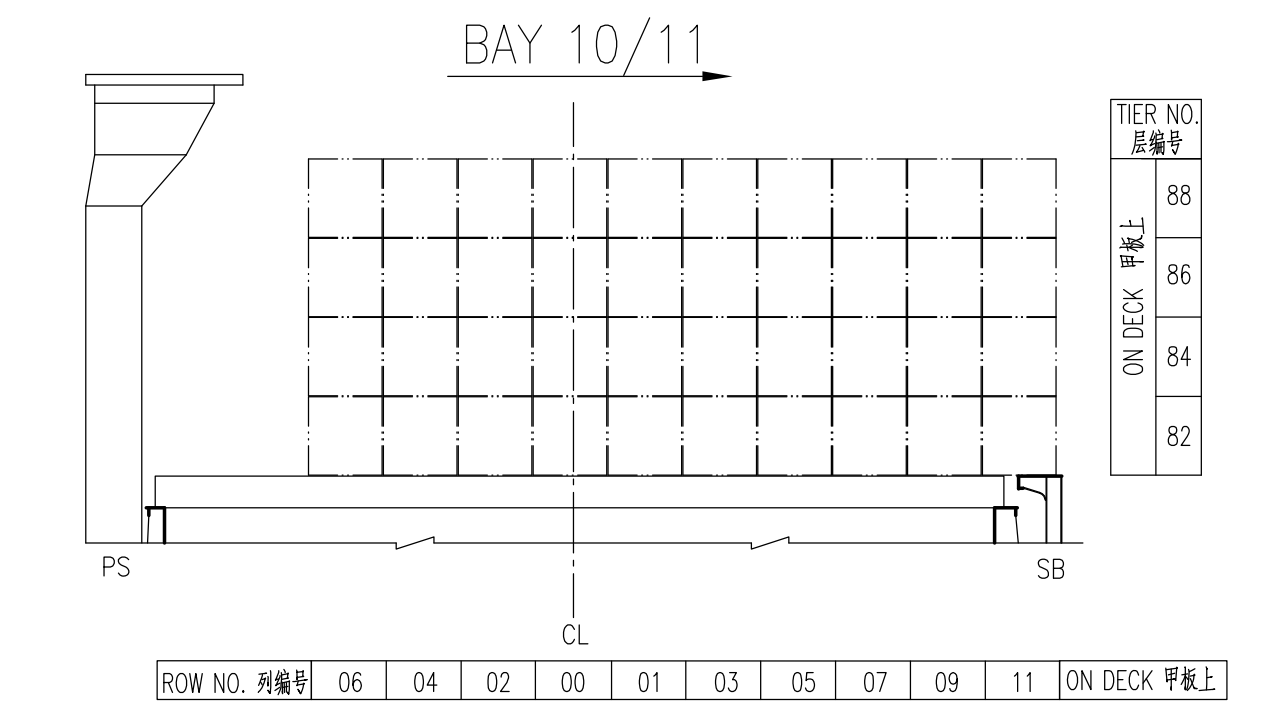
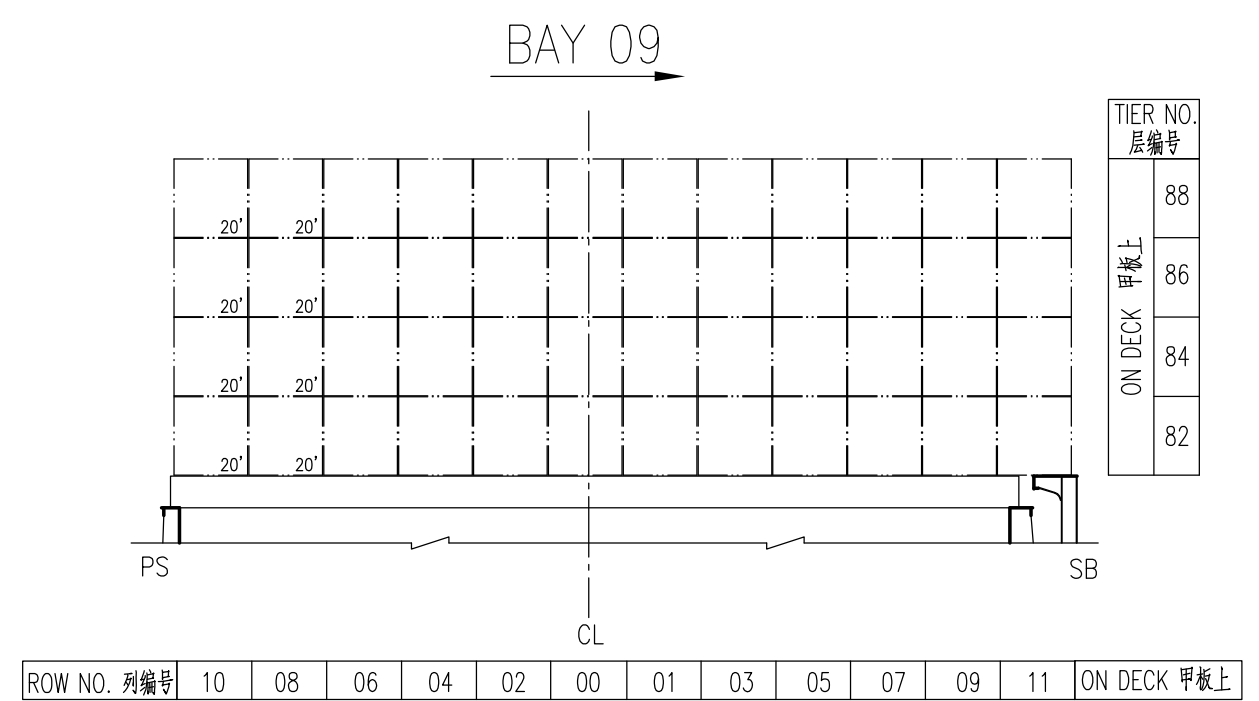
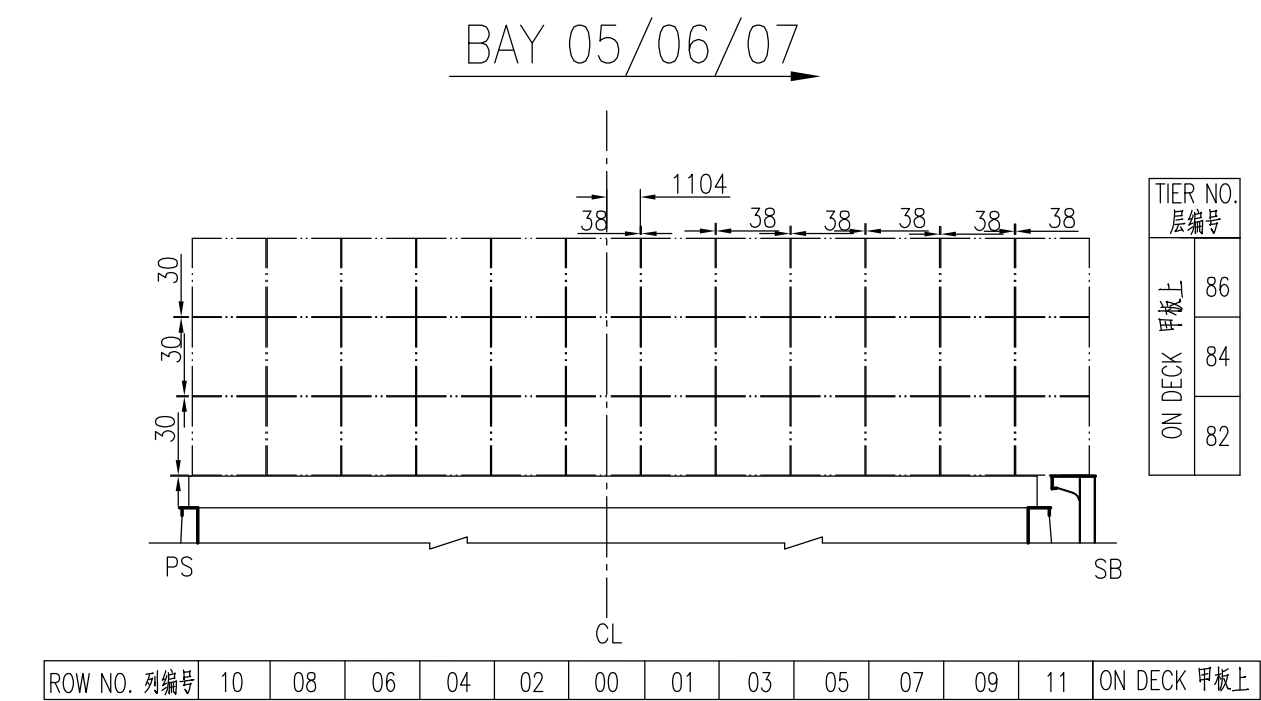


CAPACITY DATA 舱容表

NO.	DESCRIPTION	FRAME	VNET	WEIGHT	LOG	VOG	VOG	PRGM
			m ³	t	m	m ³	m ³	DM
A) Honop. Cargo (RED=0.005, RHO=1t/m ³ , Max.Fill Capacity=100%)								
R1.01	NO.1 CARGO HOLD	230-229	485.24	485.24	171.67	-0.03	11.51	15018.8
R1.02	NO.2 CARGO HOLD	161-157	15818.23	15818.23	143.92	-0.20	11.59	50862.7
R1.03	NO.3 CARGO HOLD	110-108	2146.94	2146.94	107.02	-0.20	11.62	67576.9
R1.04	NO.4 CARGO HOLD	71-107	15818.23	15818.23	70.12	-0.19	11.59	50862.7
R1.05	NO.5 CARGO HOLD	38-68	12669.87	12669.87	40.86	-0.19	11.89	42235.6
SUBTOTAL								
			1862.90	74862.90	103.95	-0.18	11.64	230196.7
B) Water Ballast (RED=0.005, RHO=1.025t/m ³ , Max.Fill Capacity=100%)								
R2.018	NO.1 W.B.TK (S)	200-229	466.56	478.22	171.69	-0.52	9.25	4739.4
R2.019	NO.2 W.B.TK (S)	161-200	1263.41	1297.07	173.26	12.08	9.04	5209.2
R2.020	NO.3 W.B.TK (S)	110-107	1263.41	1263.41	107.02	12.08	9.04	5209.2
R2.021	NO.4 W.B.TK (S)	71-107	1263.41	1263.41	70.12	12.08	9.04	5209.2
R2.022	NO.5 W.B.TK (S)	38-68	866.94	866.94	44.86	-0.19	11.89	2816.1
R2.023	NO.2 S.W.B.TK (P)	161-200	1341.93	1370.48	145.15	14.83	9.78	4742.6
R2.024	NO.3 S.W.B.TK (P)	110-107	1341.93	1341.93	107.02	14.83	9.78	4742.6
R2.025	NO.4 S.W.B.TK (P)	71-107	1341.93	1341.93	70.12	14.83	9.78	4742.6
R2.026	NO.5 S.W.B.TK (P)	38-68	866.94	866.94	44.86	-0.19	11.89	2816.1
R2.027	NO.1 HARBOR W.B.TK (S)	107-161	1021.10	1046.63	107.02	9.14	9.50	9346.6
R2.028	NO.2 HARBOR W.B.TK (S)	107-161	1336.74	1370.16	107.02	14.83	9.78	5209.2
R2.029	NO.3 HARBOR W.B.TK (S)	107-161	1336.74	1336.74	107.02	14.83	9.78	5209.2
R2.030	NO.4 HARBOR W.B.TK (S)	68-107	856.27	877.68	68.26	-7.69	9.91	10874.3
R2.031	NO.5 HARBOR W.B.TK (S)	68-107	1149.59	1189.45	68.89	-14.83	9.78	4742.6
R2.032	NO.1 HARBOR W.B.TK (S)	38-68	496.22	416.38	42.73	-3.26	9.96	3967.8
R2.033	NO.2 HARBOR W.B.TK (S)	38-68	691.00	709.29	42.85	14.83	9.78	5209.2
R2.034	NO.3 HARBOR W.B.TK (S)	38-68	691.00	691.00	42.85	14.83	9.78	5209.2
R2.035	NO.4 HARBOR W.B.TK (S)	38-68	691.00	691.00	42.85	14.83	9.78	5209.2
R2.036	NO.5 HARBOR W.B.TK (S)	38-68	691.00	691.00	42.85	14.83	9.78	5209.2
R2.037	NO.1 HARBOR W.B.TK (S)	220-220	722.26	740.33	109.88	0.13	9.78	2280.2
R2.038	NO.2 HARBOR W.B.TK (S)	220-220	856.30	866.96	107.02	-0.52	9.78	2280.2
R2.039	F.P.T.R.	229-248	1607.47	1647.65	189.33	0.04	7.05	3208.4
R2.040	S.A.2 TK.	-6-14	1330.39	1340.00	3.29	0.00	18.63	6.6
R2.041	FORE VOID/PANAMA	229-248	991.05	1015.82	189.48	0.04	16.62	6626.0
SUBTOTAL								
			23412.14	23997.45	117.06	0.36	6.84	110624.6
C) Heavy Fuel Oil (RED=0.02, RHO=0.98t/m ³ , Max.Fill Capacity=98%)								
R3.018	NO.1 H.F.O.TK (P)	107-110	383.33	387.19	86.11	5.66	6.78	286.2
R3.019	NO.2 H.F.O.TK (P)	107-110	453.97	462.39	86.11	6.00	6.78	286.2
R3.020	NO.3 H.F.O.TK (P)	68-71	383.33	387.19	54.13	5.66	6.78	286.2
R3.021	NO.4 H.F.O.TK (P)	68-71	453.97	462.39	54.13	6.00	6.78	286.2
R3.022	NO.5 H.F.O.TK (P)	29-31	21.47	20.62	21.78	-12.08	16.88	6.5
R3.023	NO.1 H.F.O.SERV.7.27-29	21.47	20.62	20.10	-12.08	16.88	6.5	
R3.024	NO.2 H.F.O.SERV.7.27-29	21.47	20.62	20.10	-12.08	16.88	6.5	
R3.025	NO.3 H.F.O.SERV.7.27-29	21.47	20.62	20.10	-12.08	16.88	6.5	
SUBTOTAL								
			1738.49	1669.65	67.59	-1.48	9.18	1511.3
D) Diesel Oil (RED=0.02, RHO=0.95t/m ³ , Max.Fill Capacity=95%)								
R4.01	M.G.O.TK	22-23	227.47	227.47	9.10	10.03	7.93	159.1
R4.02	NO.2 M.G.O.TK	10-18	195.50	162.85	9.60	-6.19	12.01	686.2
R4.03	NO.1 M.G.O.SERV.7.27-29	21.51	17.92	14.36	-9.18	16.88	2.6	
R4.04	NO.2 M.G.O.SERV.7.27-29	21.51	17.92	12.72	-9.18	16.88	2.6	
R4.05	NO.3 M.G.O.SERV.7.27-29	21.51	17.92	12.72	-9.18	16.88	2.6	
R4.06	NO.4 M.G.O.SERV.7.27-29	21.51	17.92	12.72	-9.18	16.88	2.6	
R4.07	NO.5 M.G.O.SERV.7.27-29	21.51	17.92	12.72	-9.18	16.88	2.6	
SUBTOTAL								
			430.45	358.56	9.77	-8.86	14.69	856.5
E) Lubricating Oil (RED=0.02, RHO=0.94t/m ³ , Max.Fill Capacity=94%)								
R5.01	M.E.L.O.SERV.7.27-29	22-23	31.33	19.63	0.38	1.06	16.7	
R5.02	M.E.L.O.SERV.7.27-29	14-18	33.03	29.13	10.26	3.99	11.81	6.1
R5.03	M.E.L.O.SERV.7.27-29	14-18	24.70	21.85	10.26	6.46	11.81	2.6
R5.04	M.E.L.O.SERV.7.27-29	14-18	14.18	12.50	10.26	1.89	11.81	0.5
R5.05	M.E.L.O.SERV.7.27-29	14-18	14.18	12.50	10.26	0.13	11.81	0.5
R5.06	M.E.L.O.SERV.7.27-29	14-18	33.03	29.13	10.26	9.13	11.81	6.1
R5.07	M.E.L.O.SERV.7.27-29	14-18	25.68	22.65	10.26	11.82	12.07	7.1
R5.08	NO.2 C.T.O.TK	14-18	25.68	22.65	10.26	11.82	12.07	7.1
SUBTOTAL								
			169.25	149.28	11.62	5.52	10.30	367.9
F) Fresh Water (RED=0.02, RHO=1t/m ³ , Max.Fill Capacity=100%)								
R6.01	S.W.P. COOL.W.TK	7-14	7.26	7.26	0.00	8.00	3.0	3.0
R6.02	F.W.B.TK (P)	-6-2	151.46	151.46	-1.03	-9.73	11.08	112.3
R6.03	DRINKING W.TK	2-6	88.60	88.60	2.41	-10.10	17.04	80.4
SUBTOTAL								
			467.39	467.39	0.24	-0.18	17.07	196.7
G) Miscellaneous (RED=0.02, RHO=1t/m ³ , Max.Fill Capacity=100%)								
R7.01	S.W.P. COOL.W.TK	7-14	7.26	7.26	0.00	8.00	3.0	3.0
R7.02	F.O. COOL.W.TK	24-32	15.41	15.41	20.16	2.95	1.34	3.0
R7.03	CLEAN WATER TK	14-18	420.30	22.20	21.89	-3.66	1.21	6.1
R7.04	STEAM TK	32-38	27.42	27.42	25.80	3.04	1.18	3.0
R7.05	F.O. COOL.W.TK	34-38	20.40	20.40	26.08	-2.10	11.01	33.6
R7.06	BLEND WATER TK	21-21	8.18	8.18	0.00	0.00	0.23	39.8
R7.07	S.W.P. COOL.W.TK	14-16	5.08	5.08	9.59	-0.10	1.34	3.0
R7.08	F.O. COOL.W.TK	14-16	5.46	5.46	10.41	-0.11	0.96	2.6
R7.09	F.O. COOL.W.TK	21-26	7.08	7.08	16.41	-9.11	9.06	3.0
R7.10	STEAM HOLDING TK	30-30	87.84	87.84	18.19	0.00	1.31	6.5
R7.11	S.W.P. COOL.W.TK	32-37	55.15	55.15	23.43	-12.12	16.83	16.6
R7.12	STEAM HOLDING TK	14-18	10.14	10.14	0.00	1.32	7.6	
R7.13	M/E STOPPING BOX	28-29	0.32	0.32	20.68	3.19	2.88	0.0
R7.14	M/E STOPPING BOX	28-29	0.32	0.32	20.68	3.19	2.88	0.0
R7.15	M/E STOPPING BOX	28-29	0.32	0.32	20.68	3.19	2.88	0.0
R7.16	M/E STOPPING BOX	28-29	0.32	0.32	20.68	3.19	2.88	0.0
R7.17	M/E STOPPING BOX	28-29	0.32	0.32	20.68	3.19	2.88	0.0
R7.18	M/E STOPPING BOX	28-29	0.32	0.32	20.68	3.19	2.88	0.0
R7.19	M/E STOPPING BOX	28-29	0.32	0.32	20.68	3.19	2.88	0.0
R7.20	M/E STOPPING BOX	28-29	0.32	0.32	20.68	3.19	2.88	0.0
R7.21	M/E STOPPING BOX	28-29	0.32	0.32	20.68	3.19	2.88	0.0
R7.22	M/E STOPPING BOX	28-29	0.32	0.32	20.68	3.19	2.88	0.0
R7.23	M/E STOPPING BOX	28-29	0.32	0.32	20.68	3.19	2.88	0.0
R7.24	M/E STOPPING BOX	28-29	0.32	0.32	20.68	3.19	2.88	0.0
R7.25	M/E STOPPING BOX	28-29	0.32	0.32	20.68	3.19	2.88	0.0
R7.26	M/E STOPPING BOX	28-29	0.32	0.32	20.68	3.19	2.88	0.0
R7.27	M/E STOPPING BOX	28-29	0.32	0.32	20.68	3.19	2.88	0.0
R7.28	M/E STOPPING BOX	28-29	0.32	0.32	20.68	3.19	2.88	0.0
R7.29	M/E STOPPING BOX	28-29	0.32	0.32	20.68	3.19	2.88	0.0
R7.30	M/E STOPPING BOX	28-29	0.32	0.32	20.68	3.19	2.88	0.0
R7.31	M/E STOPPING BOX	28-29	0.32	0.32	20.68	3.19	2.88	0.0
R7.32	M/E STOPPING BOX	28-29	0.32	0.32	20.68	3.19	2.88	0.0
R7.33	M/E STOPPING BOX	28-29	0.32	0.32	20.68	3.19	2.88	0.0
R7.34	M/E STOPPING BOX	28-29	0.32	0.32	20.68	3.19	2.88	0.0
R7.35	M/E STOPPING BOX	28-29	0.32	0.32	20.68	3.19	2.88	0.0
R7.36	M/E STOPPING BOX	28-29	0.32	0.32	20.68	3.19	2.88	0.0
R7.37	M/E STOPPING BOX	28-29	0.32					



20' BAY NO. 行编号
40' BAY NO. 行编号
[ON DECK 甲板] [80HTEU] 80'



LONGITUDINAL POSITION OF CONTAINER GRAVITY CENTER
集装箱纵向重心位置

TABLE 1.1 POSITION OF CONTAINER GRAVITY CENTER 集装箱重心位置 UNIT: m

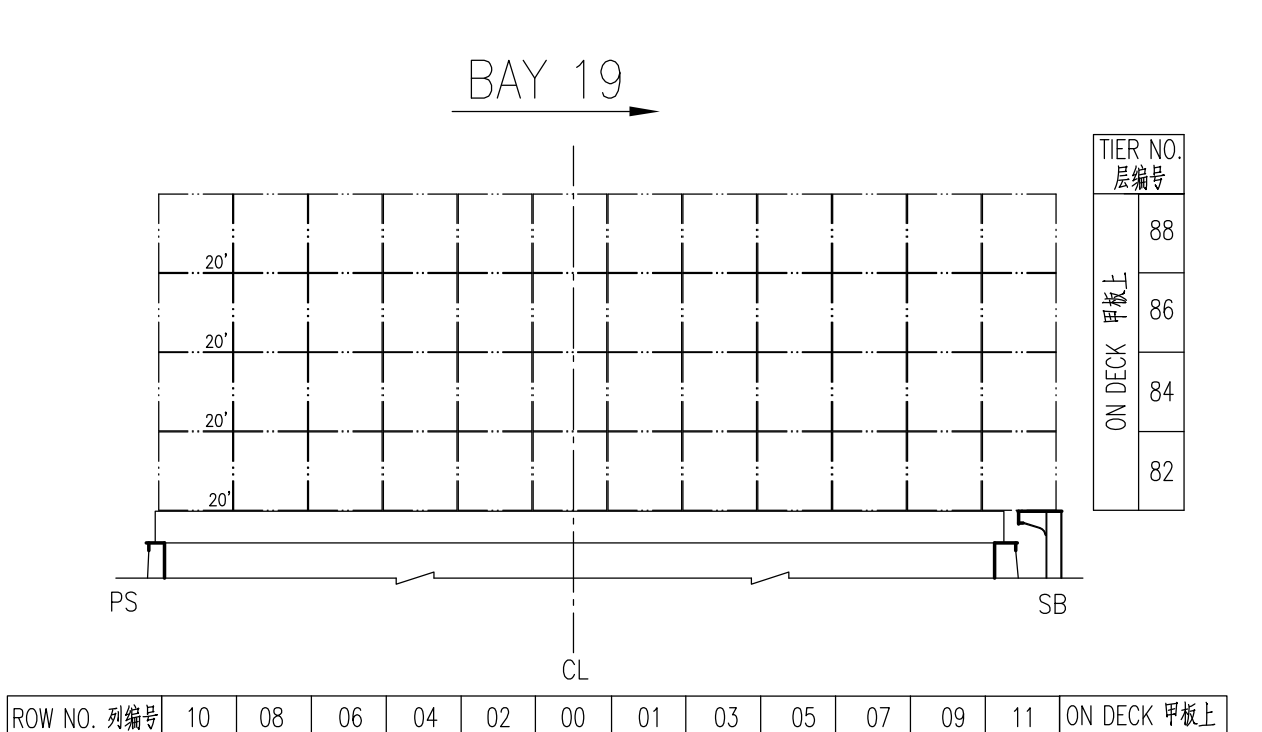
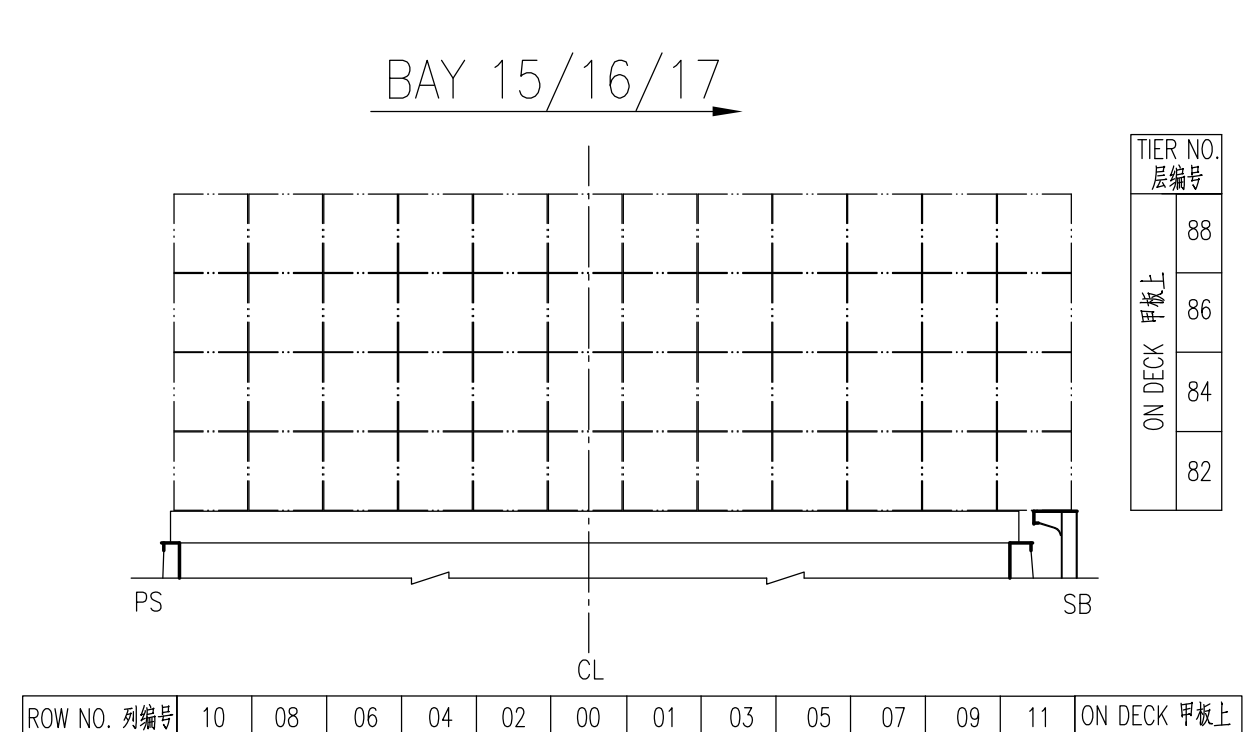
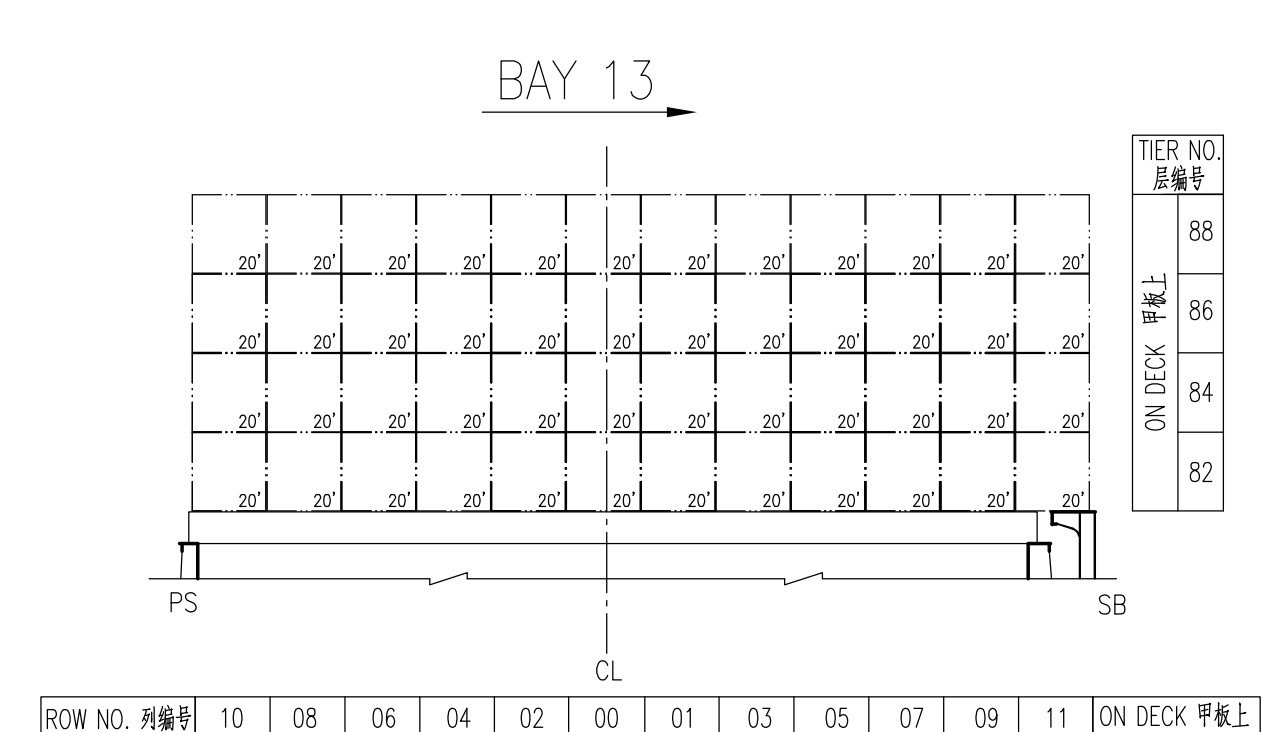
BAY NO. 行编号	20'	39	35	33	31	29	27	25	23	21
LCC (FROM AP) 重心距前缘线距离	21.171	33.870	40.004	47.412	53.546	60.502	66.636	73.606	79.740	94.162
BAY NO. 行编号	20'	19	17	15	13	11	9	7	5	3
LCC (FROM AP) 重心距前缘线距离	100.296	107.266	113.400	120.458	134.302	140.436	147.406	153.540		

TABLE 1.2 POSITION OF CONTAINER GRAVITY CENTER 集装箱重心位置 UNIT: m

BAY NO. 行编号	40'	36	32	28	24	20	16	10	06
LCC (FROM AP) 重心距前缘线距离	36.937	50.473	63.569	76.673	97.229	110.333	137.368	150.473	

LEGEND:
图例

- 20'/40' CONTAINERS (MIXED STOWAGE)
Container height 8'6" 8'6" 集装箱高度(可混装)
- 20' CONTAINERS AND NUMBERS (on profile view)
20' 集装箱数量 (侧视图)
- ONLY 20' CONTAINERS TO BE LOADED
仅装 20' 集装箱



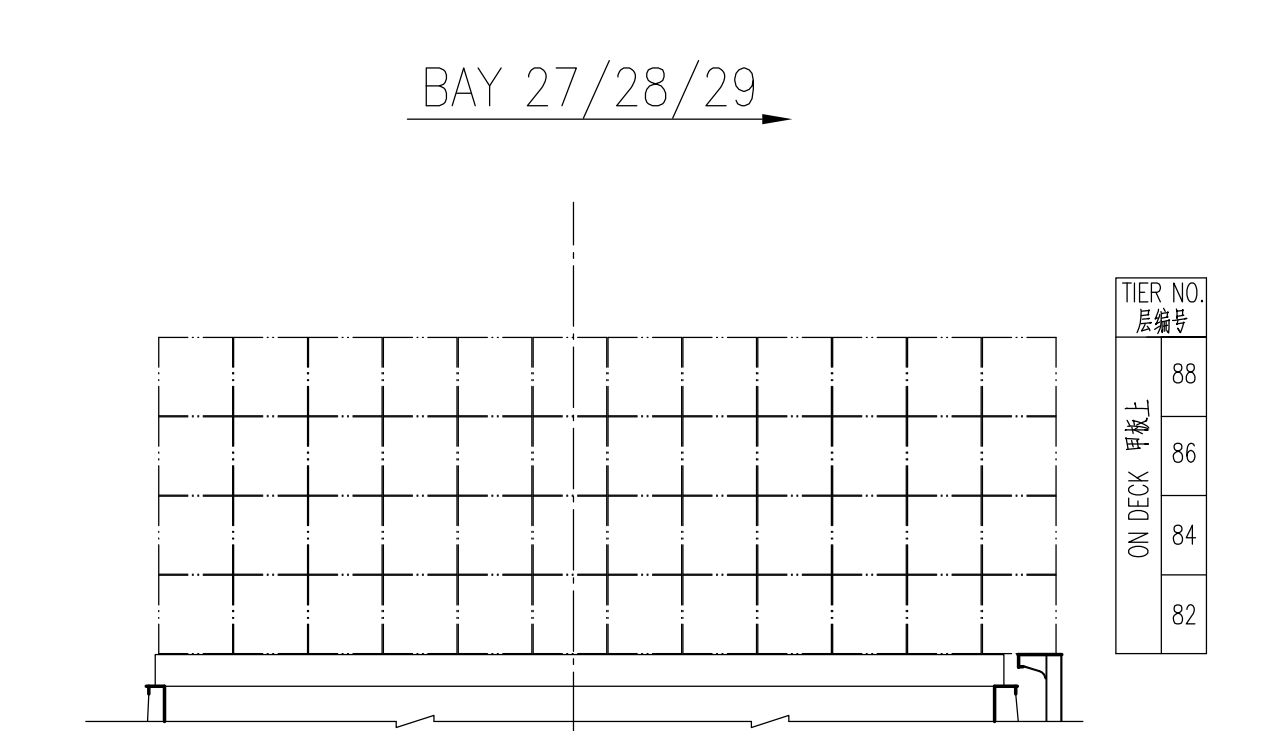
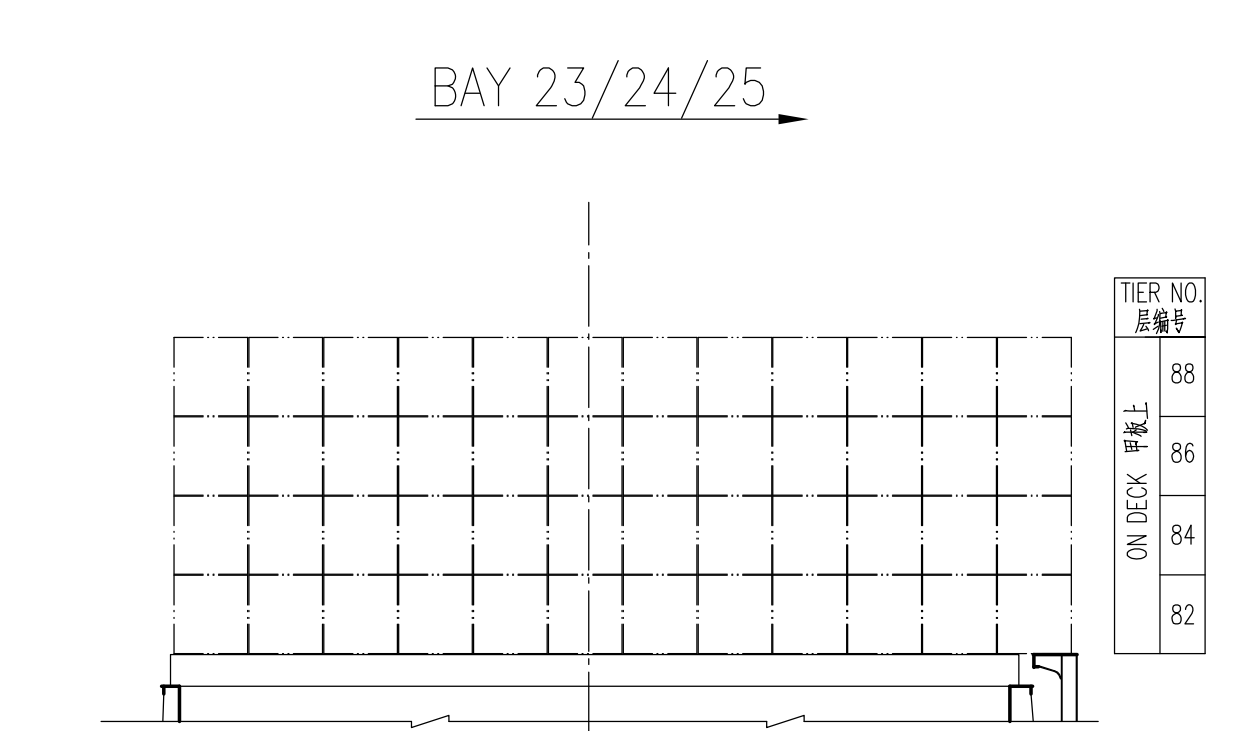
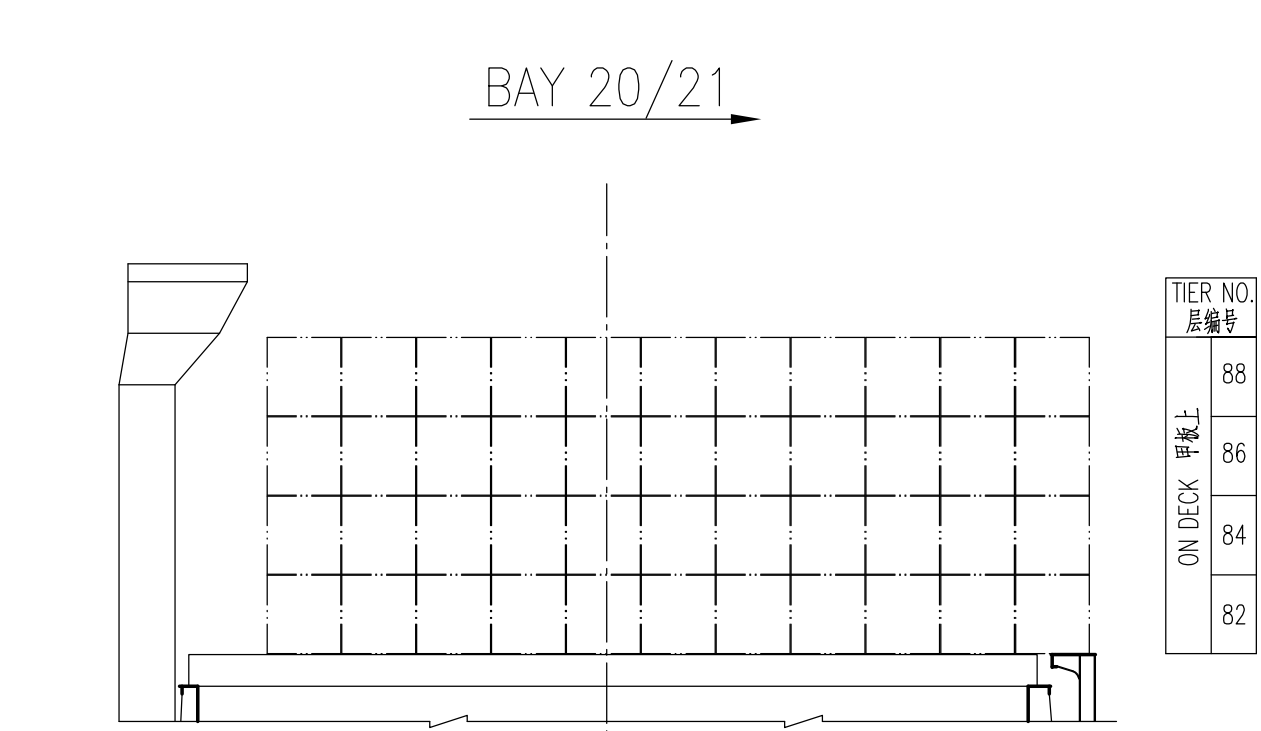
TRANSVERSE POSITION OF CONTAINER GRAVITY CENTER
集装箱横向重心位置

TABLE 2.1 POSITION OF CONTAINER GRAVITY CENTER 集装箱重心位置 UNIT: m

BAY NO. 行编号	PORT SIDE 左舷	STARBOARD 右舷
ROW NO. 行编号	10	08
LCC (FROM CL) 重心距中心线距离	12.495	10.019
ROW NO. 行编号	06	04
LCC (FROM CL) 重心距中心线距离	5.067	2.591
ROW NO. 行编号	02	00
LCC (FROM CL) 重心距中心线距离	0.115	-2.361
ROW NO. 行编号	01	03
LCC (FROM CL) 重心距中心线距离	-4.837	-7.313
ROW NO. 行编号	05	07
LCC (FROM CL) 重心距中心线距离	-9.789	-12.265
ROW NO. 行编号	09	11
LCC (FROM CL) 重心距中心线距离	-14.741	

TABLE 2.2 POSITION OF CONTAINER GRAVITY CENTER 集装箱重心位置 UNIT: m

BAY NO. 行编号	PORT SIDE 左舷	STARBOARD 右舷
ROW NO. 行编号	10	08
LCC (FROM CL) 重心距中心线距离	12.270	9.794
ROW NO. 行编号	06	04
LCC (FROM CL) 重心距中心线距离	7.318	4.842
ROW NO. 行编号	02	00
LCC (FROM CL) 重心距中心线距离	-0.110	-2.566
ROW NO. 行编号	01	03
LCC (FROM CL) 重心距中心线距离	-5.062	-7.538
ROW NO. 行编号	05	07
LCC (FROM CL) 重心距中心线距离	-10.014	-12.490



VERTICAL POSITION OF CONTAINER GRAVITY CENTER
集装箱纵向重心位置

TABLE 3 POSITION OF CONTAINER GRAVITY CENTER 集装箱重心位置 UNIT: m

TIER NO. 层编号	BAY NO. 行编号	CONTAINER HEIGHT 集装箱高度
88	01-39	31.209
86	01-39	29.088
84	01-39	26.467
82	01-39	23.846

CONTAINER SIZE
集装箱尺寸

TABLE 4 CONTAINER SIZE 集装箱尺寸

mm	LENGTH 长	WIDTH 宽	HEIGHT 高
20'x8'x8'6"	6058	2438	2591
40'x8'x8'6"	12192	2438	2591

Note: The vertical center of gravity to be at 45% container height.
注: 集装箱重心距底45%高度。

MAXIMUM STACK WEIGHT
最大重量

TABLE 5 MAXIMUM STACK WEIGHT 最大重量 UNIT: t

LOADING SPACE 堆装位置	CONTAINER SIZE 集装箱尺寸	MAXIMUM STACK WEIGHT 最大重量
HATCH COVER No.1 - No.5 货舱盖	20'	70
	40'	90

Note: Actual maximum stack weight for each loading space should be subject to lashing calculation which as per the rule requirement.
注: 实际最大堆装重量应根据系固计算进行计算。

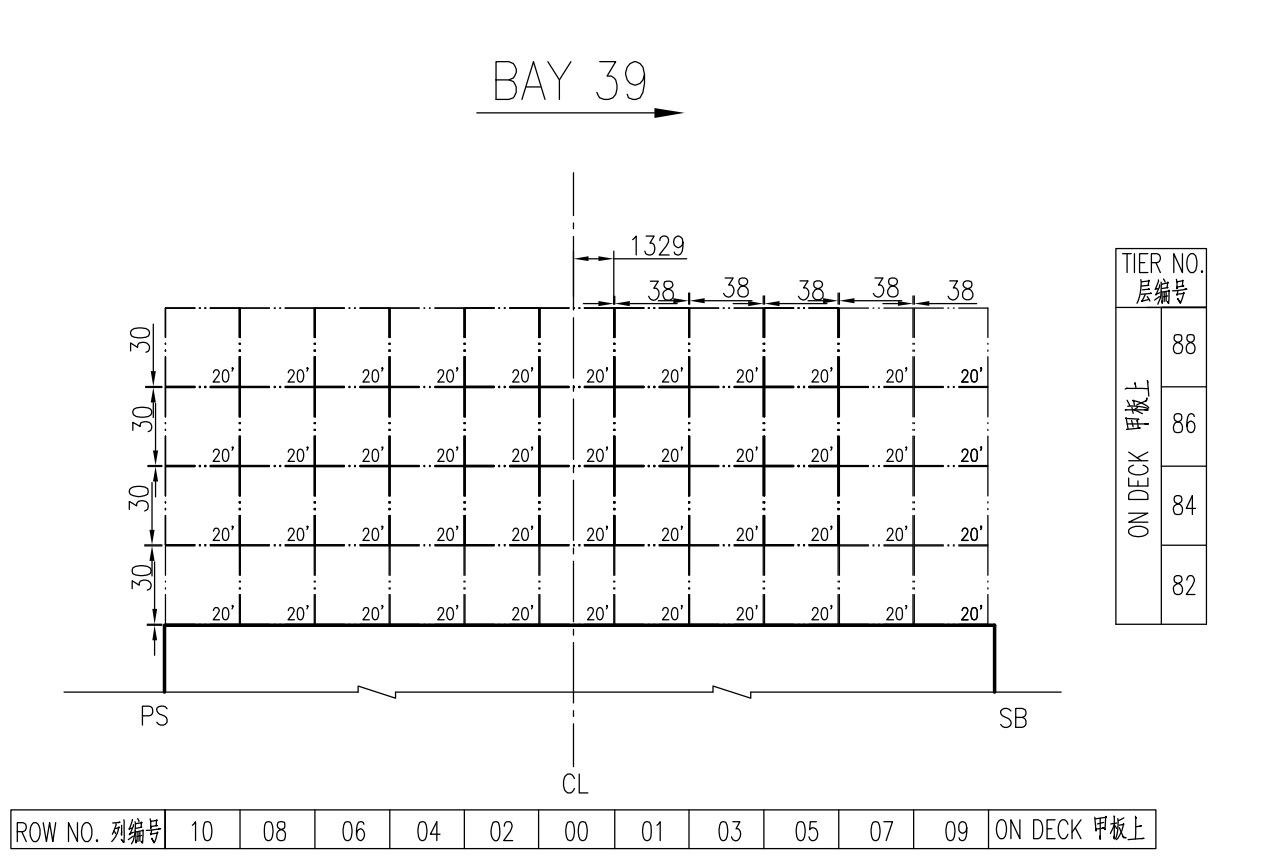
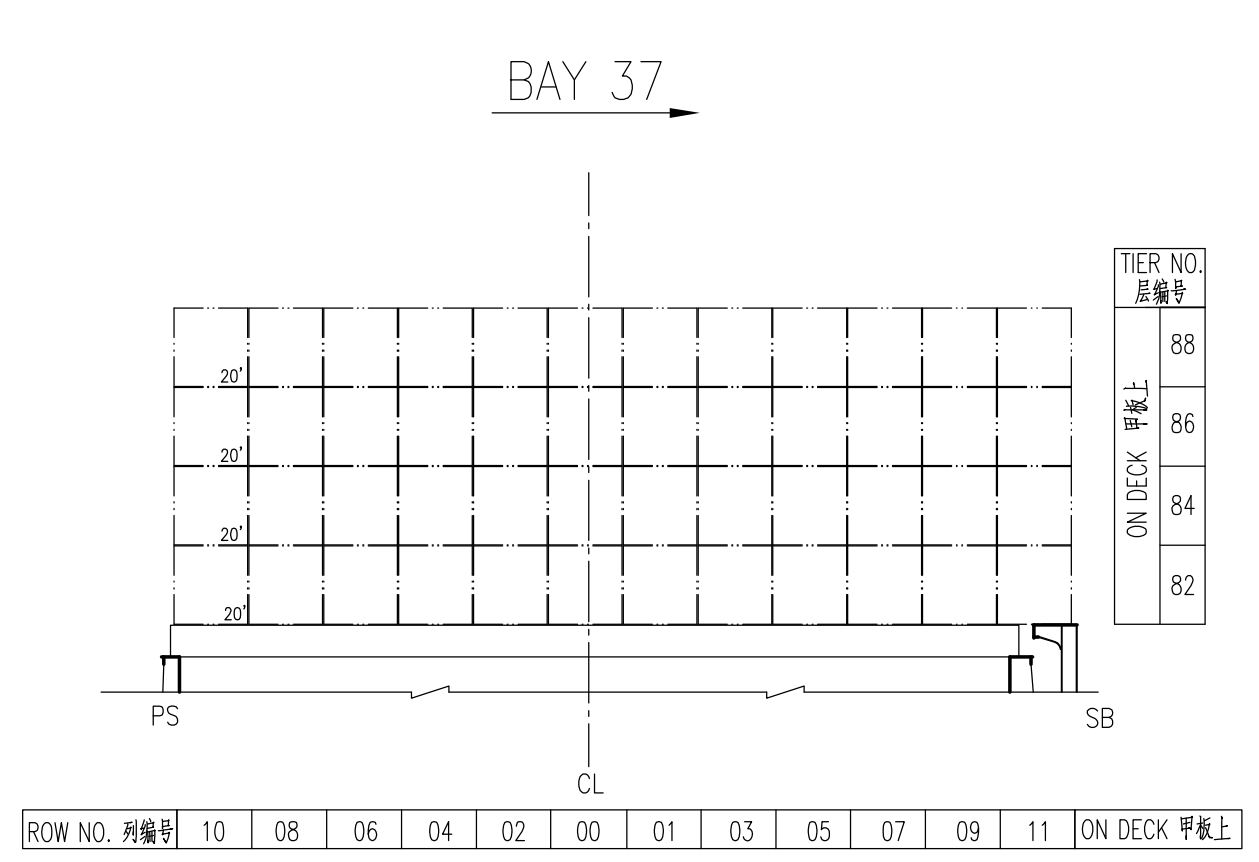
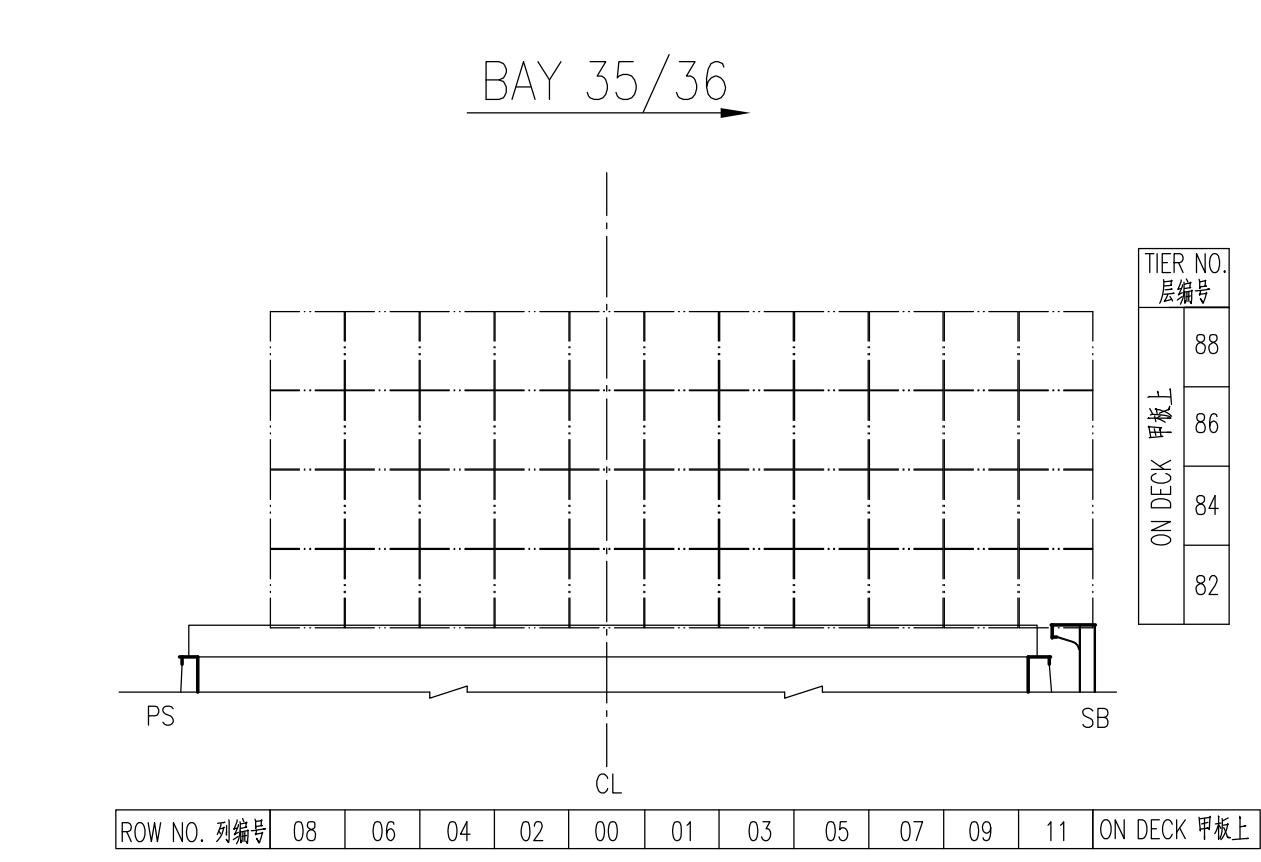
CONTAINER CAPACITY TABLE
最大容量表

TABLE 6.1 Maximum 20' containers capacities 20' 最大容量 (SD standard 8'6" high container) (8'6" 标准)

On deck 甲板	804	0
Total 总计	804	0

TABLE 6.2 Maximum 40' containers capacities 40' 最大容量 (SD standard 8'6" high container) (8'6" 标准)

On deck 甲板	348	108
Total 总计	348 <td>108</td>	108



NOTES:
1. THE 9'6" HEIGHT CONTAINERS CAN BE LOADED ON HATCH COVERS RANDOMLY, BUT SHOULD BE LIMITED BY VISIBILITY AND CRANE.
2. ACTUAL DISTRIBUTION OF CONTAINERS ONBOARD TO BE IN COMPLIANCE WITH REQUIREMENTS OF STABILITY, FLOATING POSITION AND LONGITUDINAL STRENGTH OF THE VESSEL.
3. 20' AND 40' CONTAINERS TO BE STOWED ALTERNATIVELY OR MIXED ON HATCH COVER.
4. THE FINAL CONTAINER STORAGE AND INTAKE OF ALL TYPES OF CONTAINERS SHALL BE DECIDED ACCORDING TO THE LASHING CALCULATION.

注:
1. 9'6" 高箱可以在货舱盖上任意堆装, 但应受限于能见度和吊钩。
2. 实际堆装分布应符合船舶稳性、浮态和纵向强度的要求。
3. 20' 和 40' 集装箱可以单独或混合堆装。
4. 各种集装箱的堆装和取用应根据系固计算进行计算。

主要尺度及数据
PRINCIPAL DIMENSIONS

总长 LENGTH O.A.	199.90 m
垂线间长 LENGTH B.P.	196.50 m
船宽 BREADTH MLD.	32.26 m
船深 DEPTH MLD.	19.30 m
设计吃水 DESIGNED DRAFT	11.30 m
结构吃水 SCANTLING DRAFT	13.50 m
载重量 DEADWEIGHT (AT SCANTLING DRAFT)	61,250 t
集装箱量 CONTAINER CAPACITY (ON DECK/20FT ISO)	804 TEU

DETAIL DESIGN 详细设计	60000T HEAVY-LIFT MULTIPURPOSE VESSEL 62000吨重吊多用途船	SC4832(CX)-103-09														
CONTAINER STORAGE PLAN 集装箱积载图	<table border="1"> <tr> <th>单位</th> <th>kg</th> <th>数量</th> <th>1280</th> </tr> <tr> <td>重量</td> <td>171</td> <td>171</td> <td>1.8 t</td> </tr> </table>	单位	kg	数量	1280	重量	171	171	1.8 t	<table border="1"> <tr> <th>单位</th> <th>数量</th> <th>1280</th> </tr> <tr> <td>重量</td> <td>171</td> <td>1.8 t</td> </tr> </table>	单位	数量	1280	重量	171	1.8 t
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<p>DESIGNER 设计: 魏海光 DRAWN 制图: 魏海光 CHECKED 校对: 魏海光 DATE 日期: 2021.11.04</p>																