

American Bureau of Shipping

SURVEY FOR LOAD LINES

Report No. PA 2289

Date 10 NOV 1974

Name of Vessel "PUERTO RICO"		Official Number 561,732	Port of Registry WILMINGTON, DELAWARE	Port of Survey PHILADELPHIA, PA.
Gross Tonnage 14770.18	Date of Build JANUARY 1975	Hull Number 670	Class + A1(E) + AMS	Type of Vessel (Pass., Cargo, Tanker, etc.) VEHICLE CARRIER
Owner G70 LEASING CO.		Builder SUN SHIPBUILDING & DRY DOCK COMPANY CHESTER, PA.		

FREEBOARD

-TYPE A-	TYPE B	-TYPE B- REDUCED- INCREASED	-TIMBER-
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REG. 3

Length From Foreside of Stem to Center Line of Rudder Stock @ 85 Per Cent of Least Molded Depth	643'-0"	Keel Plate Thickness	1.07"		
Total Length @ 85 Per Cent of Least Molded Depth	660'-8" x .96 = 643'-7"	Molded Displacement @ 85 Per Cent of Least Molded Depth	34,950		
Beam	92'-0"	Wood Deck Thickness	—		
Depth Molded at Middle of Length	2nd DECK 42'-0³/₄"	Sketch Gunwale Connection. For Rounded Gunwale Indicate Relationship of Deckline Marked on Vessel to Deckline as Defined in Regulations.			
Stringer Plate Thickness	2nd OR FREEBOARD 0.63				
Forecastle	—			After Perp.	—
Bridge	57'-3"			1/6 Fwd. of Aft Perp.	35⁷/₈"
Poop	—			1/3 Fwd. of Aft Perp.	0
Raised Quarter Deck	—			Amidship	0

REG. 11 SCANTLINGS OF BULKHEAD PLATING AND STIFFENERS OF SUPERSTRUCTURES, EXPOSED MACHINERY CASINGS AND DECKHOUSES PROTECTING OPENINGS IN FREEBOARD DECKS.

Description	Thickness of Plating	Thickness of Coaming	Stiffeners	Spacing	End Attachments
FR. 170 BHD 2 nd TO MAIN DECK	30.6[#]	—	6" x 3¹/₂" x 9.8[#]	—	WELDED CHOCK AT TOP FREE ENDS AT BOTTOM
FR. 183 BHD 2 nd TO MAIN DECK	15.5[#]	—	7" x 4" x 13.6[#] 4" x 3" x 5.8[#]	2'-9"	- DO -
FR. 20 2 nd TO MAIN DECK	13.1[#]	—	3¹/₂" x 3¹/₂" x 11.1[#] INV. L'S 4" x 3" x 7.2[#] INV. L'S 10" x 3¹/₂" x 28.3[#] C.F.	2'-9"	WELDED TO BK BEAM AT TOP. WELDED TO F.B. CHOCKS AT BOTTOM.

REG. 14, 15 and 16

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

Number of Hatchway & Deck	MAIN DECK			SECOND DECK		
	W.T. ACCESS HATCH PLATING DECK TO BOB'S STAIRS	FR. 80-127 OPEN RAMP DOWN	FR. 80-208 OPEN RAMP DOWN	FR. 85-128 RAMP DOWN	FR. 163 + 204 RAMP DOWN	FR. 122 & 163 R.M.H. ESCAPES OVAL
Dimensions of Hatchway	30" x 30"	112'-7" x 18'-3"	96'-0" x 18'-0"	119'-2" x 18'-3"	96'-2" x 18'-0"	22³/₄" x 14³/₄"
COAMINGS	Height Above Deck	30"	FLUSH	FLUSH	—	12"
	Thickness { Sides Ends	15.3[#]	—	—	13.1[#] 22.8[#]	13.1[#] 22.8[#] 15.3[#]
	Stiffeners, Brackets, or Stays	—	—	—	4" x 3" x 7.2[#] 7" x 4" x 13.6[#]	4" x 3" x 7.2[#] 10" x 3¹/₂" x 25.3[#]
HATCH BEAMS	Number	—	—	—	—	—
	Spacing	—	—	—	—	—
	Scantling and Sketch of Section	—	—	—	PROTECTED BY 16'-6" x 15'-8" HYDRAULICALLY OPERATED WATER TIGHT DOOR	—
HATCH COVERS	Bearing Surface	—	—	—	—	—
	Material	STEEL	—	—	STEEL	STEEL
	Thickness	15.3[#]	—	—	20.4[#]	20.4[#] 15.3[#]
	How Fitted	FORG & AFT HINGED	—	—	TRANSVERSE HINGED	TRANSVERSE HINGED
Bearing Surface	RUBBER GASKET	—	—	RUBBER GASKET	RUBBER GASKET	
Spacing of Cleats DOGS	4 EVENLY SPACED	—	—	26 EVENLY SPACED	26 EVENLY SPACED	4 EVENLY SPACED
Number of Tarpaulins	—	—	—	—	—	—

Are Steel Bars or Other Equivalent Means Provided to Efficiently and Independently Secure Each Section of Pontoon or Wooden Hatchway Covers? Yes
No

NOTE: Hatchway Covers of More Than 1.5 Meters (4.9 Feet) in Length Shall Be Covered by at Least Two Such Securing Appliances.

Not Applic.

REG. 12, 17 and 18-(2) (3) DOORWAYS IN BULKHEADS OF SUPERSTRUCTURES; DECK HOUSES PROTECTING OPENINGS IN FREEBOARD AND SUPERSTRUCTURE DECKS, COMPANIONWAYS, EXPOSED MACHINERY CASINGS ON FREEBOARD AND SUPERSTRUCTURE DECKS AND PUMPROOMS.					
2 ND	Describe Structure	Number and Size Of Openings	Height Of Sill	Closing Appliances On Openings	Means For Securing Closing Appliances State If Operable From Both Sides
FR. 20	1 - W.T. DOOR	1 - 26" x 60"	24"	W.T. DOOR	6 DOGS - OPERABLE B/SIDES.
	1 - MACHINERY ACCESS PLATE	1 - 6'-0" x 5'-3"	22 1/2"	STEEL PLATE	BOLTED - ONE SIDE.
FR. 127 & 169	W.T. DOOR IN W.T. RAMP CLOSURE	2 - 18" x 54"	21"	W.T. DOOR	6 DOGS - OPERABLE BOTH SIDES.
FR. 170 & 183	W.T. DOOR IN BOILER CASING TO ENGINE SPACES	2 - 26" x 66"	9'-1 1/2" ABOVE 2 1/2"	W.T. DOOR	6 DOGS - OPERABLE BOTH SIDES.
FR. 203	BOOBY HATCH ESCAPE FROM MACHY SPACE	1 - 26" x 54"	24"	W.T. DOOR	6 DOGS - OPERABLE BOTH SIDES.
FR. 245	BOOBY HATCH ESCAPE FROM STEERING GEAR FLAT.	1 - 26" x 54"	24"	W.T. DOOR	6 DOGS - OPERABLE BOTH SIDES.
FR. 248	BOOBY HATCH ESCAPE FROM HAWSEER ROOST	1 - 26" x 54"	24"	W.T. DOOR	6 DOGS - OPERABLE BOTH SIDES.

REG. 17-(2) MACHINERY SPACE OPENINGS

How Are Fiddley Openings Closed?	SEE ITEM # 3 ABOVE
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REG. 18-(1) 2ND DECK MANHOLES AND FLUSH SCUTTLES

Give Location and Description of Manholes and Flush Scuttles and Means of Closing. State If Covers are Permanently Attached.

6 MANHOLES (FR. 20-1, 34-1, 36-2, 46-2) 15" x 23" OVAL - FLUSH - BOLTED W/RUBBER GASKETS.

4 BUTTERWORTH PLATES BETWEEN FR. 20-46, 12" DIAMETER - BOLTED W/RUBBER GASKETS.

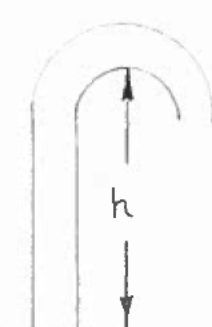
1 MACHINERY ACCESS FR. 151, 48" x 48" x 26.5" PLATE - BOLTED W/RUBBER GASKET.

2 ROPE SCUTTLES FR. 251, 18" D., QUICK ACTING COVERS, OPERABLE BOTH SIDES.

REG. 19 VENTILATORS IN EXPOSED POSITIONS ON FREEBOARD AND SUPERSTRUCTURE DECKS

	Specify Deck	Number	Size	Height	Closing Appliances
Are Ventilators Over 35 1/2" In Height Specially Supported? <u>YES</u>	2 ND OR FREEBOARD	18	8'-3" x 3'-6"	8'-0"	8 - 3/8" STEEL "WEATHERTIGHT" DAMPERS W/DOUBLE LOCKING HANDLES. 14 - HINGED WATERTIGHT COVERS W/DROP BOLTS.
		2	8'-3" x 3'-7"		
		2	6'-0" x 4'-8"		
In Vessel of Not More Than 328 Feet In Length Are Covers Permanently Attached? <u>—</u>	MAIN DECK		NONE		

REG. 20 AIRPIPES IN EXPOSED POSITIONS ON FREEBOARD AND SUPERSTRUCTURE DECKS

	Specify Deck	Number	Size	Height	Closing Appliances
	MAIN DECK	2	8"	36"	BALL CHECK W/HINGED STEEL COVER. GOOSENECK W/INSECT SCREEN.
		1	2 1/2"	36"	
	2 ND OR FREEBOARD DECK	2	12"	30"	HINGED STEEL COVER BALL CHECK W/HINGED STEEL COVER & SCREEN.
		2	10"	± 16'-0"	
		16	6"	30"	
		2	5"	30"	
		2	4"	30"	
		10	3"	30"	
		5	2"	30"	
		3	1 1/2"	30"	

REG. 21 STBD SIDE ONLY CARGO PORTS OR SIMILAR OPENINGS IN VESSELS SIDES

FWD	24'-0" x 15'-3"	NO CLOSING ARRANGEMENT FITTED ABOVE FREEBOARD DECK,
MID	24'-0" x 14'-3"	CHAINS PROVIDE CREW PROTECTION.
AFT	22'-8 1/2" x 15'-3"	

REG. 22 SCUPPERS, INLETS AND DISCHARGES

Location of Inboard End	Number	Size	Height of Inboard End of Scupper or Discharge Above Base Line	Means Provided For Preventing Water From Passing Inboard	Give Material Type and Location of Valves. State Whether Accessible or Operable From Freeboard Deck
From Spaces Below The Freeboard Deck					
From Within Superstructures or from Deckhouses on Freeboard Deck Fitted With Doors Complying With Regulation 12 — Please Specify					
MACHINERY SPACES	2	6"	16'-0"	STOP CHECK VALVE (REMOTE OPERATION FROM FREE BOARD DECK)	CAST STEEL - ACCESSIBLE IN MACHINERY SPACE.
Scupper and Discharge Pipes Not Included Above Which Penetrate Shell More Than 17 1/2 Inches Below Freeboard Deck or Less Than 23 1/2 Inches Above Summer Load Water Line Have Either A Non-Return Valve at the Shell or the Piping is of Substantial Thickness — Please Specify					
STEERING GEAR FLAT	1	2"	24" ABOVE FLAT	GLOBE STOP/CHECK VALVE	CAST STEEL - ACCESSIBLE IN STEERING FLAT.

In Manned Machinery Spaces, Are Local Controls for Main and Auxliary Sea Inlets and Discharges in Connection With the Operation of Machinery Readily Accessible and Provided With Indicators Showing Whether Open or Closed?	Yes	No
Are All Required Valves and Shell Fittings of Steel, Bronze or Approved Ductile Material?	✓	—
Where Two Automatic Non-Return Valves are Permitted is the Inboard Valve Above the Tropical Load Water Line?	✓	—

REG. 23 AIRPORTS OR PORTLIGHTS

Give Number and Location of Side Scuttles (Airports) to Spaces Below Freeboard Deck, to Spaces Within Enclosed Superstructures or to Deck Houses Protecting Access to Spaces Below Freeboard Deck	BELOW FREE BOARD DECK - NONE UPPER DECK & ABOVE - 16 1/4" x 22 1/2" W.T. WINDOWS NOT OPERABLE NO COVERS		
Are Side Scuttles Fitted With Efficient Hinged Inside Deadlights Arranged So That They Can Be Effectively Closed and Secured Watertight?	N.A.	Yes	No
Is Each Side Scuttle Positioned So That it's Sill is not Below a Line Drawn Parallel to the Freeboard Deck at Side and Having it's Lowest Point 2.5 Percent of the Breadth (B) Above the Load Waterline, or 500 Millimeters (19 1/2 Inches) Whichever is the Greater Distance?	N.A.	—	✓

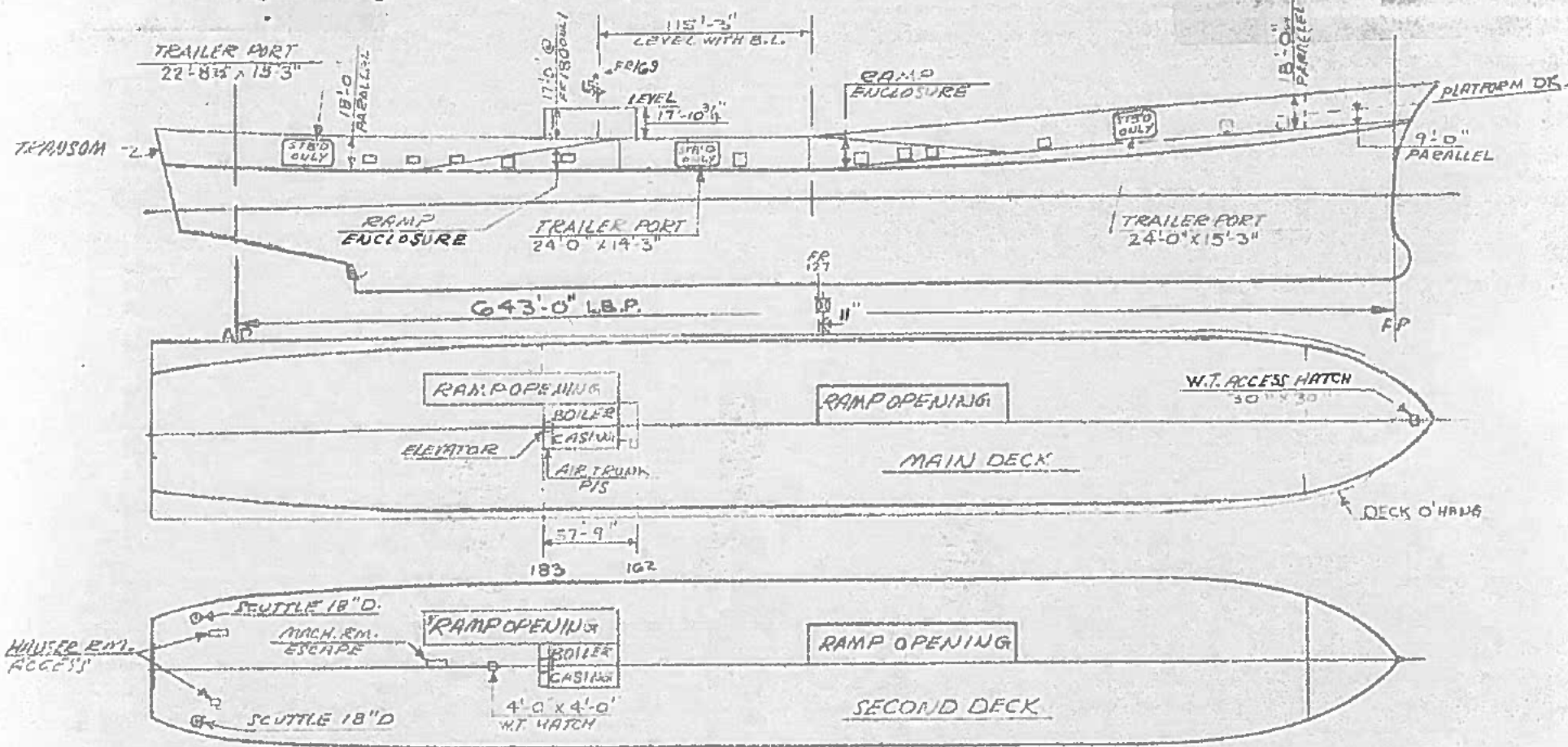
REG. 24 FREEING PORTS

Location of Bulkwork	Length	Height	Size of Freeing Ports	Number Each Side	Total Area Each Side	Rule Area Each Side
N.A.						

REG. 25 PROTECTION OF CREW

Give Particulars of Bulkworks or Guardrails on Freeboard and Superstructure Decks	MAIN DECK - 2 TIER PIPE 24" x 40" W/VEHICLE CURBING 12" x 20.4# R. MAIN DECK - ACROSS STERN - 3 TIER PIPE 40", 24", 9" FROM DECK. FOC'SLE - BULWARKS FROM STEM TO FR. 28, 43" HEIGHT TOPPED WITH FLAT BAR. FREEBOARD - OPENINGS PROTECTED BY 3 TIER CHAIN 40", 24", & 9" FROM DECK.
Give Details of Lifelines, Walkways, Gangways or Underdeck Passageways Where Required to be Fitted	HOUSE DECKS - 3 TIER PIPE 40", 24" & 9" FROM DECK.
Where is Crew Berthed?	N.A.
MIDSHIP	

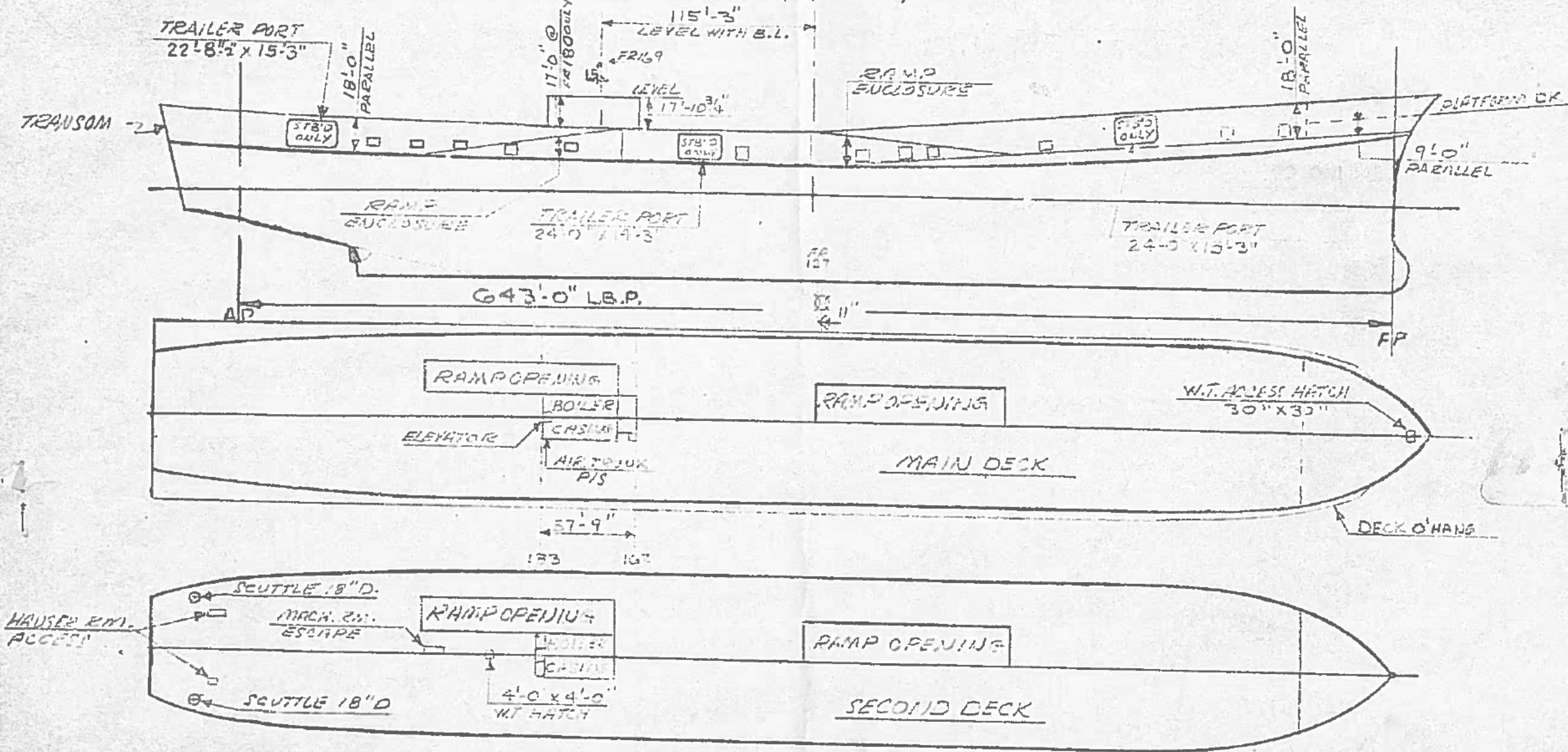
Show on This Diagram the Length and the Height of the Superstructures, Trunks, Details of Recesses in Bulkheads, Location of Cargo Hatches & Side Ports.



FOR NEW YORK OFFICE ONLY

In Accordance With Regulation 10 This Vessel Has Been Supplied With the Following Means For Loading and Stability Guidance	
Loading Manual	
Loading Instrument	
Trim and Stability Booklet	
Insert Sheet for Trim and Stability Booklet	
Stability Letter	

Show on this diagram the length and height of the superstructures, trunks, deckhouses, casings, length of overhangs on superstructures which extend to side of vessel, details of recesses in bulkheads, location of cargo and coaling hatchways, also cargo, gangway and coaling ports, etc. Give extent and thickness of wood deck or sheathing on freeboard deck. Show extent of flat or depressed sheer. (In shelter deck vessels give location of tonnage hatch in relation to fore or after perpendicular.)



NOTE: In the case of existing vessels state the mean loaded operating draft of the vessel
 When supplementary marks for timber or tanker conditions are desired give particulars, in blank space below, concerning "conditions of assignment".
 In the case of unclassified vessels a hull condition survey should accompany this report.
 Give any special features in the construction of the vessel, in the space below: