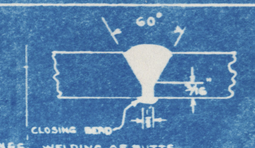
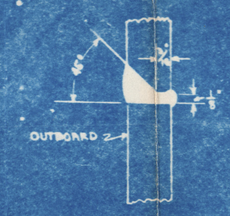
GROSS AREA 28½ X 33½ = 6·63 SQ FT
NET AREA 27½ X 32 = 6·12 SQ FT

UPPER DECK STRINGER 66½" x .62" TO .42"
PLATING .62" TO .42"
7" X 4" X ⅜" INVERTED ANGLES
UPPER DECK BEAMS SEE DECK PLAN
UPPER DECK
UPPER DECK PLATING BETWEEN OPENINGS .40" TO .36"
10'-0"
FRAMES AT HATCH ENDS 12" X 4" X 35.0# CHANNEL
TWEEN DECK FRAMES 6" X 3½" X 15.3# CHANNELS ON EVERY FRAME
EXCEPT NO. 1 HOLD AND PEAKS AND HATCH ENDS
NO. 1 HOLD 7" X 3½" X 18.1# CHANNEL ON EVERY FRAME
PEAKS INVERTED ANGLE 7" X 4" X ⅜" ON EVERY FRAME
"G" STRAKE - 91'-78" TO .46"
2ND DECK STRINGER 108" x .40" TO .34"
2ND DECK PLATING .40" TO .34"
2ND DECK
NO CAMBER
8" X 4" X 7/16" INVERTED ANGLES
8" X 4" X ½" INV. ANGLES IN WAY OF #1 & 2 TWEEN DECKS
SECOND DECK BEAMS SEE DECK PLAN
BRACKET ON EVERY 2ND FRAME
2ND DECK PLATING BETWEEN OPENINGS .34" TO .31"
10'-0"
BRKT .48"
3½" FLGE
"F" STRAKE - 96" - .64" TO .46"
⅞" DIA AIR HOLES IN FRAMES, BEAMS & BULKHEAD STIFFENERS 2'-6" APART
MAIN FRAMES 12" X 4" X 40.0# CHANNELS (WEB .59") TO 2ND DECK IN ENGINE ROOM & HOLDS NO. 2, 3, 4 & 5 - 30" APART
MAIN FRAMES 12" X 4" X 44.5# CHANNELS (WEB .70") TO 2ND DECK IN BOILER ROOM AND CROSS BUNKER AND DEEP TANK 30" APART (FLGE 1⅛")
MAIN FRAMES 15" X 3⅜" 40.0# CHANNELS (WEB .520") TO 2ND DECK IN NO 3 HOLD 27" APART (MEAN FLGE 5/8")
PEAK FRAMES 8" x 3½" x .34" BULB ANGLES SPACED 24" APART
"E" STRAKE - 96" - .64" TO .46"
37'-4"
28'-7"
SPARRING & BATTENS
FINISHED 5¾" x 1¾" SPACED 9" APART

SIDE SHELL .64" WITH 30" SPACING TO .46" AT ENDS.
SIDE SHELL 25% ABOVE END THICKNESS .58" IN WAY OF PANTING IN LIEU OF STRINGER FOR A DISTANCE AFT OF RULE POSITION OF COLLISION BHD. EQUAL TO 10% L OF VESSEL
SIDE SHELL 25% ABOVE END THICKNESS .58" IN WAY OF FOREPEAK TANK IN LIEU OF STRINGER CONNECTIONS TO SHELL



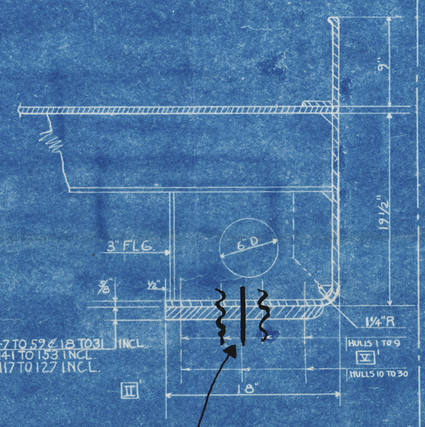


WELDING NOTES

INNER BOTTOM BUTTS V WELDS.
MARGIN PLATE TO SHELL: SEE DETAIL.

CENTER GIRDER ⅜" CONTINUOUS TOP AND BOTTOM
SIDE GIRDER 5/16" CONTINUOUS TOP AND BOTTOM
SIDE GIRDER ⅜" CONTINUOUS TOP AND BOTTOM IN ENGINE ROOM.
FLOORS 5/16" CONTINUOUS BOTH SIDES

STERN FRAME AS PER DETAIL PLAN
STEM BAR 10" x 2½" TO L.W.L.
PLATE STEM ABOVE L.W.L.
RUDDER AS PER DETAIL PLAN
FOR STEEL C.L. BULKHEADS SEE STRUCTURAL INBOARD PROFILE



RIDER PL. 16" x 1¼ FRS. 47 TO 52 & 18 TO 31 INCL.
RIDER PL. 16" x ⅜" FRS. 141 TO 153 INCL.
RIDER PL. 16" x ½" FRS. 117 TO 127 INCL.

SECTION OF TYPICAL HATCH SIDE GIRDER

3 Rows Rivets

EQUIPMENT at

2 STOCKLESS BOWER ANCHORS EACH	7616 LBS
1 STOCKLESS STREAM ANCHOR	2660 LBS
225 FATHOMS STUD CHAIN CABLE	2 5/16" DIA
90 FATHOMS OF	5/8" SWR)
120 FATHOMS TOWLINE	5⅛" SWR
2 HAWSERS EACH 90 FATHOMS	2¾" SWR)
2 WARPS EACH 90 FATHOMS	2½" SWR)

PRINCIPAL DIMENSIONS.

LENGTH B.P.	500' 0"
BREADTH MOULDED	56' - 10¾"
DEPTH MOULDED TO UPPER DECK	37' - 4"
DEPTH - MOULDED TO 2ND DECK	28' - 7"
DEPTH TO LENGTH	11.14

CLASS

LLOYDS REGISTER OF SHIPPING ✠ 100 A1
"WITH FREEBOARD"
SCANTLINGS SUITABLE FOR A MOULDED DRAUGHT OF 26'-10", WHICH IS 18 INCHES IN EXCESS OF THAT FOR A C.S.S. VESSEL

NOTE:- SPECIAL CARE TO BE TAKEN TO OBTAIN A FULL WELD CONNECTION.
SHELL PL.
TANK TOP PLATING

DETAIL OF MARGIN PLATE
V WELD TO SHELL

TANK TOP PLATING CEILED FOR 2'-0" OUTSIDE THE HATCH LINE IN NO. 2-3 AND 4 HOLDS - ALL CEILED IN NO. 1 AND 5 HOLDS. TANK MARGIN BRACKETS CEILED IN ALL HOLDS

BOSS PLATING .70"
CUT OFF CHANNEL FLANGE
MID SHIP PORTION ONLY

MARGIN PLT. 68" x .54" HOLDS AND ENG. RM. - .60" IN BOILER SP.
TANK TOP PLATING .44" TO .40" IN HOLDS - .52" IN ENG. RM. - .58 IN BOILER SP.
60" x .52" TO .44" - .58" IN BOILER SP.
6" x 3½" x ⅜" L
6" x 3½" x 22.0# CHANNEL
6" x 3½" x ⅜" IN BOILER SP.
8" x 3½" x 22.8# CHANNEL
3½" FLGE
LIMBER HOLES 3" x 1½"
CENTER GIRDER
KEEL PL. 80" TO .70" TO .87" AFT (TO 68' FWD) +10% ON F.P.K. IN THE FLAT PORTION OF SHIP FOR DRYDOCKING - SEE DWG NO. 11261-511-3-2
"B" STRAKE - 120" - .64" TO .50"
"A" STRAKE - 120" - .64" TO .50"
4'-3½" 4'-11½" 4'-9" 4'-11" 2'-6" 3'-0"
26'-5⅜"
OPEN FLOOR
BOTTOM CEMENTED ABOUT 1½" THICK UNDER ENGINES AND BOILERS
LIMBER HOLES CUT TO SUIT

TANK SIDE BRKTS 4" FLGE
12" TO 15" FORWARD .44" - .50" BOILER SPACE
LIMBERS
TANK TOP
SKETCH OF GUSSET PLATE

FLOORS - .38" IN HOLDS AND ENG. RM.
.48" IN BOILER SPACE
INCREASED AT TANK ENDS TO RULE
GUSSET PLATE 15" IN #1 HOLD 12" ELSEWHERE .44 - .50" BOILER SPACE
.38" IN HOLDS - .42" IN ENG. RM. - .52" IN BOILER SP.
CENTER GIRDER 43½ x .54" TO .46" .62" IN BOILER SPACE
3" x .44" F.B. STIFFS
14" x 24"
16" x 24"
12'-8"
10" DIA
10" BULB PLATE BILGE KEEL CUT FROM 10" x 3½" x 27.2# B.A.

BOTTOM SHELL .64" WITH 30" SPACING TO .50" AT ENDS
TWO STRAKES OF SHELL (EXTRA WIDE) NEXT TO KEEL TO BE 10% ABOVE RULE THICKNESS .69" TO .58" FWD - .62" IN FOREPEAK & .57" AFT

SOLID FLOORS ON EVERY FRAME IN ENGINE ROOM - UNDER BOILER STOOLS UNDER BULKHEADS AND FORWARD OF ⅗ L - PARTIAL SOLID FLOORS TO LONGITUDINAL IN WAY OF THRUST. SOLID FLOORS ON EVERY 4TH FRAME ELSEWHERE (≈10'-0" MAXIMUM SPACING)

MARK	PANEL	ITEM	ALTERATION	BY	CONTRACTOR DATE	CONTRACTOR APPR'D	APPROVAL DATE	APPROVAL APPR'D
		1	SECT OF TYP HATCH SIDE GIRDER ALT. HOLDS 1 & 30 ADD.	K.P.A.	5/15/42			
A			WELDING NOTES INNER BOTTOM BUTTS V WELDS - MARGIN PLATE TO SHELL SEE DETAIL SKETCH	H.B.	11/4/40			
B			MAIN FRAMES ADDED FOR HOLD 4 TO AGREE WITH DR 11261-511-3-2 INNER BOTTOM BRACKET TO SHELL ENLARGED 6" d STRUTS RELOCATED. DETAIL OF MARGIN PLATE WELD ADDED. WELDING NOTE CORRECTED.	D. H. H.	1/7/41			
I			IN "CLASS" NOTE, WORDING "EXTREME DRAUGHT" CHANGED TO "MOULDED DRAUGHT" IN ACCORD WITH LLOYDS REGISTER OF SHIPPING LETTER OF 8-7-41	G.C. P.P.C.	8/14/41			
II	1		HATCH COAMINGS & HATCH SIDE GIRDERS ON BOTH DECKS CHANGED - SECT OF 2ND DECK HATCH SIDE GIRDER CORRECTED TO SUIT STRUCTURAL PLANS - LOCATION OF PART OF BOILTO BE CEMENTED NOTED.	M.C. D.	1/4/41			
	2		EQUIPMENT 210 FATHOMS STUDLINK CABLE CHANGED TO 225 FATHOMS - STREAM CHAINS & TOWLINE CHANGED TO 3⅞" SWR - HAWSERS & WARPS DELETED & WARPS 7" HEMP DELETED - ALL OF THE ABOVE TO AGREE WITH ALLOWANCE LIST	J.B.B.				
III	1		BILGE KEEL REVISED TO SUIT SHELL EXPANSION PLAN	J.B.B.	11/10/41			
IV	1		CORRECTED TO DATE 4-12-42	D.P.C.	4-12-42			

TODD-BATH IRON SHIPBUILDING CORPORATION
TODD-CALIFORNIA SHIPBUILDING CORPORATION

DESIGN AND ENGINEERING BY
GIBBS & COX, INC.
NEW YORK

N/N S.S. ~~Ocean Strength~~ "
MIDSHIP SECTION
As built

SCALE ½" = 12" = 1 FOOT
DRAWN BY D.M.S. & L.L.M.C.K.
TRACED BY L.L.M.C.K.
CHECKED BY
DATE NOVEMBER 25, 1940
APPROVED
APPROVED
APPROVED

DR. 11261-511-11-2
VAULT 5192

J.S.O.

~~Groomport~~
~~Gargyvale~~
"AFRICAN LADY"

Lloyd's Register of Shipping
Lloyd's Register Foundation

004852-004860-0185

M.S

BROOMPARK

Gannyrate.

004852-004860-0185

© 2020
Lloyd's Register
Foundation