

PRINCIPAL DIMENSIONS		
LENGTH	(L)	435'-0"
BREADTH MOULDED	(B)	58'-6"
DEPTH	(D)	32'-10"
LOADED DRAUGHT (MOULD)		7.000M
DEPTH "D" FOR SCANTLING NUMERALS	(D)	32.83'

SCANTLING NUMERALS		
1ST LONG. NUMERALS	(L, D)	14.281
2ND	(L, D)	3.0722
PROPORTION TO UPPER DECK	%	10.72
% OF LENGTH OF SUPERSTRUCTURES TO SHIP'S LENGTH		45.32%

EQUIPMENT		
L. (B. D.)	435 (58.5 + 32.83)	39.729
PLATE	410 x 75 x 75	232
BRIDGE	120 x 75 x 75	75
POOP	30 x 35 x 75	171
BRIDGE DECK HOUSE	66 x 80 x 50	264
ROCK DECK HOUSE	19 x 25 x 50	87
SUM		6' 41.18" OF 382.2

EQUIPMENT		
3-BOWER ANCHORS STOCKLESS COLLECTIVE	WT	10.515
1-STREAM ANCHOR ORDINARY E2 STOCK		1.045
STUD CHAIN CABLE	550M	60 DIA
STEEL WIRE FOR STREAM ANCHOR	1-225"	40 DIA
TOW LINE STEEL WIRE (FLEXIBLE)	1-240"	40 DIA
HAWSEERS MANILA	2-185"	65 DIA
WIRPS	2-185"	65 DIA

FORGING & CASTING		
STEM		10 7/8 x 2 1/2
STERN FRAME	RUBBER POST	
PROPELLER		

KEEL & SHELL PLATING		
KEEL PLATE	51" x 21.5" - 19	
BOTTOM PLATE	17.5" - 13	
SIDE	17.5" - 12.5" - 11.5	
DOGS	19	
FLK. SIDE	103	
BRIDGE	103	
POOP	103	
SHEER STRAKE	73" x 24 (RULE 51" x 25") - 12.5 & 11.5	
STRAKE BELOW	73" x 20.5 (RULE 51" x 21") - 10.5 & 11.5	
SHEER STRAKE DOUBLED	WITH 20.5 AT BRIDGE ENDS	

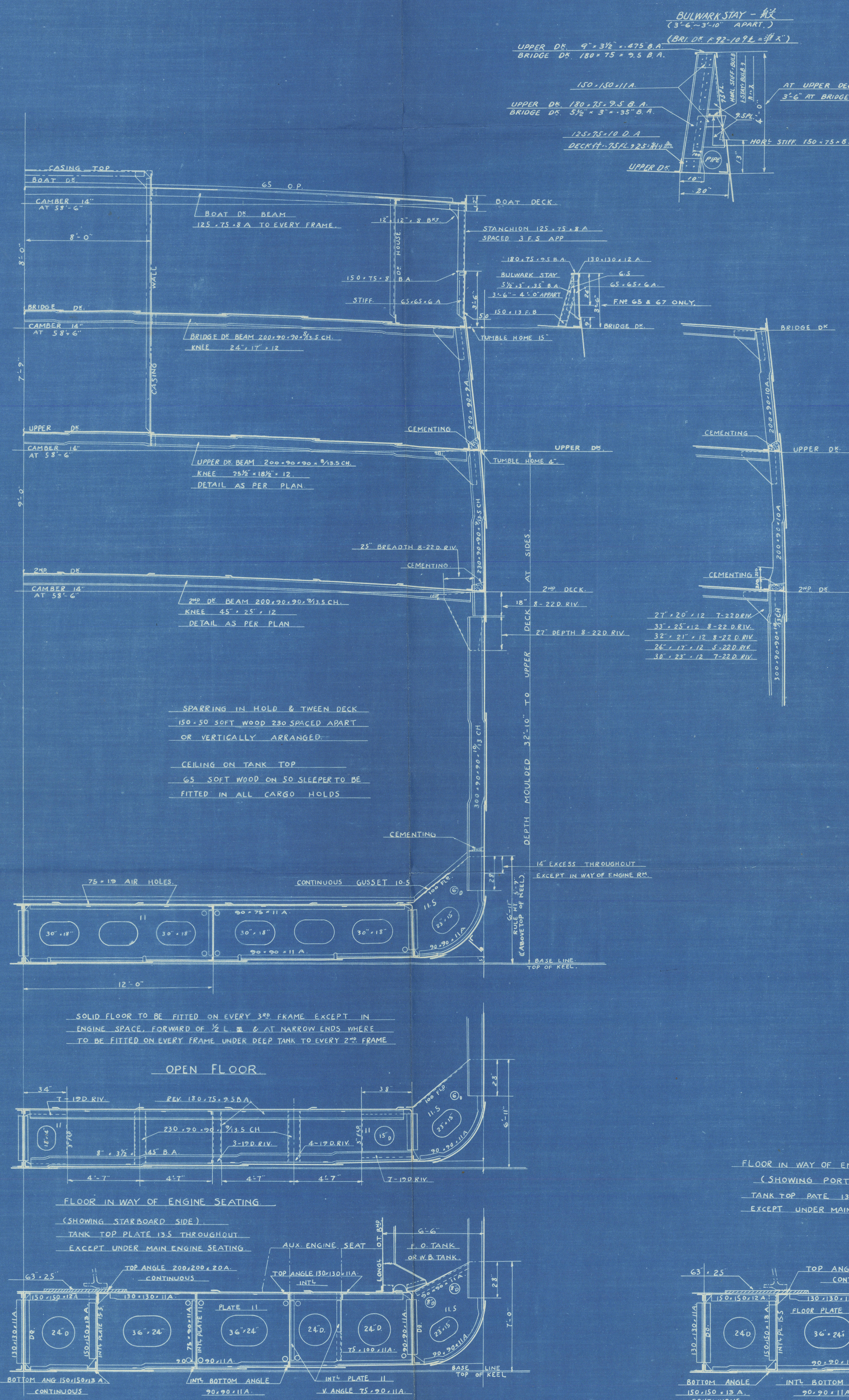
ENGINE CASING		
CASING PLATE	75" x 8.5 WHERE EXPOSED	
CASING	6.5 x 7.5	
CASING ANGLE	75 x 75 x 8 A	
STIFFENERS	75 x 65 x 8 A	33" SPACED APART

DECK HOUSE		
HOUSE PLATE	UPPER DECK BRIDGE DECK ROAT DECK	
CASING ANGLE	80 x 9 x 8 A 150 x 100 x 9 A 150 x 90 x 9 A	
TOP ANGLE	75 x 75 x 8 A 75 x 75 x 8 A 75 x 75 x 8 A	
STIFFENERS	75 x 9 x 8 A 75 x 65 x 8 A 65 x 65 x 6 A	
SPACING	33" SPACED APART (WHERE UNABLE TO OFFER) 5	
ALL DIVISIONAL STEEL WALL (SUCH AS IN W.C. & BATH)	5	

BILGE KEEL		
PLATE	10" x 11 WITH 60 x 30 H.R. BAR	
CONNECTING ANGLE	125 x 90 x 13 A	
DEPTH OF GIRDER	13"	

DOUBLE BOTTOM		
CENTRE	PLATES	1/2 L. - 12
GIRDER	KEEL ANGLE	100 x 100 x 13.5 - 13.0 A
	TOP	70 x 90 x 12 - 11.0 A
	VERT.	70 x 70 x 11 A
SIDE	PLATES	7.5
GIRDER	TOP ANGLE	90 x 75 x 11 A
	BOTTOM	90 x 90 x 11 A
	VERT.	75 x 75 x 10 A
SOLID	PLATES	11
FLOORS	FRAME	90 x 90 x 11 A
	REV. FRAME	90 x 75 x 11 A
W.T.	PLATES	12.5
FLOOR	BROWBURY AND	90 x 90 x 13 A
	STIFFENERS	120 x 90 x 12 A
INNER	KEEL STRAKE	52 1/2 x 12 - 11
	OTHER	115 x 10 x 11 - 11
BOTTOM	MARGIN PLATE	40 x 14 - 13.5
	ANGLE	130 x 130 x 13.5 A

STRENGTHENING OF BOTTOM FORWARD		
FROM FORWARD OF 1/2 L. - 12 TO COLLISION RIB		
PITCH OF RIVET IN FRAME TO BE 5/16" (TWO COMPLETE ROWS ON BOTH FLANGES) FRAME ANGLE 130 x 130 x 11 A FROM MARGIN PLATE TO MARGIN PLATE N. FRAME BACK BAR 100 x 75 x 11 A TO BE FITTED FROM 3/16" TO 5/16" - 11.5 IN ADDITIONAL SIDE GIRDER TO BE FITTED NOT MORE THAN 7.5' APART 1/2 IN. CHAINS EXTENDING AS FAR FORWARD AS PRACTICABLE FLOOR PLATE OR HULL SIDE SHEERS ARE NOT TO BE EXCHANGED SHEEL PLATING		
TOW STRAKE OF NEXT THE KEEL TO HAVE 25 THICKNESS		
AND ANOTHER ONE STRAKE TO HAVE THICKNESS 12 AT F.S. 33" & 18" AT F.S. 21" MAINTAINED FORWARD TO COLLISION RIB AND KEEL PLATING TO HAVE 25 THICKNESS IN WAY OF BOTTOM PLAT PARTS		



DECKS			
STRINGER PLATE	BRIDGE DECK	F.C.L. DECK	POOP DECK
ANGLES	60 x 14.5	35 x 9	37 x 9
INSIDE FRAME	130 x 130 x 15 A	70 x 90 x 10 A	70 x 90 x 10 A
WATERWAY F.BAR	11' ABREAST OPENING		50 x 9 x 8 A
WATER PLATES	12' MINIMUM		12' MIN. 6.5
WOOD PLANKS	650 x 110 x 11 A		65 x 9.5
CURTAIN PLATE			12 x 9

UPPER DECK		
STRINGER PLATES	IN WAY OF STRENGTHENING DE	IN WAY OF BRIDGE DE
ANGLES	66 x 15.5 x 9.5 (11' MIN. 11.5)	66 x 15.5 (11' MIN. 11.5)
INSIDE FRAME	200 x 200 x 25 A	90 x 90 x 11 A
DE PL. ABREAST OPENING	18.5 - 9	8.5
DE PL. WITHIN	11 - 9	8.5
WOOD PLANK		ON COMPAN CREW SPACE

2ND DECK		
STRINGER PLATES	IN WAY OF UPPER DECK	IN WAY OF BRIDGE DE
ANGLES	66 x 15.5 x 9.5 (11' MIN. 11.5)	66 x 9.5 (11' MIN. 11.5)
SHELL	75 x 75 x 11 - 10 A	75 x 75 x 10 A IN SIDE FRAME
DE PL. ABREAST OPENING	10.5 - 8	8.5 - 10.5
DE PL. WITHIN	10.5 - 8	8.5 - 10.5

TANK SIDE BRACKETS			
ENGINE ROOM	15% FROM STEM	CARGO HOLDS	1/2 L. - 15% FROM
ACTUAL (d)	18" - 10"	20" - 1"	20" - 1"
TANK SIDE RMT	11.5	11	11.5
GUSSET PLATES	10.5	10.5	10.5
TO FRAME	16 x 22.0 RIV	20 x 22.0 RIV	16 x 22.0 RIV
TO GUSSET	10 x 22.0 RIV	13 x 22.0 RIV	10 x 22.0 RIV
RIVET TO MARGIN PL	11 x 22.0 RIV	15 x 22.0 RIV	11 x 22.0 RIV
V. ANGLE ON MARGIN PL	90 x 90 x 11 A	130 x 130 x 11 A	130 x 130 x 11 A
FLOOR PL	90 x 90 x 11 A	130 x 130 x 11 A	130 x 130 x 11 A
GUSSET PLATES	CONTINUOUS	CONTINUOUS	CONTINUOUS
IN WAY OF TO FRAME			
FUNCTIONAL TO TANK TOP			
HT OF TANK SIDE RMT	84 (RULE 67)	83 (RULE 67)	83 (RULE 67)
CORRECTED HT FOR SIDE PLANKING	18" - 10"	26" - 0"	19" - 6"

FRAMES		
BATH DECK	FRAME SPACES	24"
FORWARD DE 3/4 L. DE		21"
ELSE - WHERE		33" (RULE 27.42")
EXTENSION OF SIDE FRAME	AS PER PROFILE	

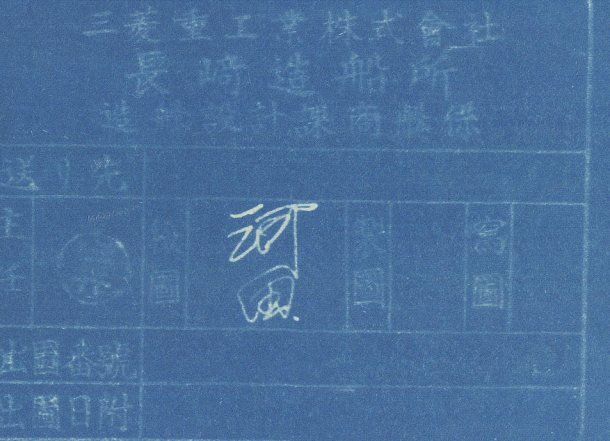
RIVETING NOTE (EDGE CONNECTION)			
KEEL PLATE	1/2 L. - 12	AT ENDS	IN WAY OF BRIDGE
BOTTOM PLATE	2R	2R	
SIDE PLATE		2R	
SHEER STRAKE		2R	
STRAKE BELOW	2R	2R	
FLK. SIDE PL		1R	
BRIDGE DE SIDE PL	2R		
POOP SIDE PL		1R	
M.L. STRAKE	2R	2R	
OTHER STRAKE			
MARGIN PL		2R	
UPPER DE PL	(ABREAST OPENING)	1R	1R
OTHER DE PLATE	1R	1R	1R

END CONNECTIONS		
KEEL PLATES	LAPPED & 4R	LAPPED & 3R
BOTTOM		4R
SIDE		3R
SHEER STRAKE		5R
STRAKE BELOW		4R
BRIDGE SIDE PL		4R
FLK. & POOP SIDE PL		LAPPED & 1R
INNER BOTTOM		
M.L. STRAKE	LAPPED & 3R	LAPPED & 2R
OTHER STRAKE		2R
MARGIN PLATES		3R
CENTRE GIRDER		3R
UPPER STRINGER PL		5R
2ND DECK STRINGER PL		4R
3RD DECK STRINGER PL		2R
BRIDGE DE STRINGER PL		3R
POOP PLATE		2R
OTHER PLATE		LAPPED & 1R

M.V. "KOTOKU MARU"
Nagasaki Report No. 2251

S. No. 671.
M.S. "KOTOKU-MARU"

MIDSHIP SECTION.
SCALE 1/4" TO 1 FT.
435'-0" x 58'-6" x 32'-10"
(FINISHED PLAN).



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