

RESTRICTED

GENERAL INFORMATION

INCLUDING

DESCRIPTIONS AND TESTS OF ELECTRIC AUXILIARIES

U. S. S. SAMPSON, TORPEDO BOAT DESTROYER NO. 63.

U. S. S. ROWAN, TORPEDO BOAT DESTROYER NO. 64.

INFORMATION RELATIVE TO ITEMS UNDER THE COGNIZANCE OF
THE BUREAU OF CONSTRUCTION AND REPAIR
NAVY DEPARTMENT

DECLASSIFIED

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SERIAL No. **15**

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JOINT BOOKLET FOR

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INFORMATION RELATIVE TO ITEMS
UNDER COGNIZANCE OF THE

Bureau of Construction and Repair

NAVY DEPARTMENT

Office of the Superintending Constructor
For U. S. Navy
Fore River Shipbuilding Corporation
Quincy, Massachusetts

T. G. Roberts, Naval Constructor, U. S. N.
Superintending Constructor

1916

FINISHED PLAN NO. 41

50645

**BUREAU OF SHIPS
NATIONAL ARCHIVES FILES**

COMPLEMENT

Officers		Artificer Branch (Engine Room Force)	
Commanding Officer.....	1	Machinist's Mates, first class..	3
Wardroom Officers.....	5	Machinist's Mates, second class.	3
		Water Tenders.....	4
Chief Petty Officers		Boiler Maker.....	1
Chief Boatswain's Mate.....	1	Blacksmith.....	1
Chief Gunner's Mate.....	1	Coppersmith.....	1
Chief Quartermaster(Navigating)	1	Oilers.....	4
Chief Machinist's Mates.....	3	Firemen, first class.....	11
Chief Water Tender.....	1	Firemen, second class.....	6
Hospital Steward.....	1		
Chief Electrician, radio.....	1		
Seaman Branch		Special Branch	
Boatswain's Mate, first class.	1	Yeoman, first class (Commanding	
Boatswain's Mate, second class	1	Officer).....	1
Coxswains.....	2	Yeoman, second class (Engineer	
Gunner's Mates, first class...	2	Department).....	1
* Gunner's Mates, second class..	2		
* Gunner's Mates, third class...	3	Commissary Branch	
Quartermaster, first class....	2	Ship's Cook, first class.....	1
Quartermaster, second class...	1	Ship's Cook, third class.....	1
Quartermaster, third class....	1		
Seamen.....	17		
Ordinary Seamen.....	8		
Artificer Branch		Messmen Branch	
Electrician, first class.....	1	Cabin Steward.....	1
Electrician, first class, radio	1	Cabin Cook.....	1
Electrician, third class, radio	1	Mess Attendants.....	2
Electrician, third class.....	1		
Carpenter's Mate, first class.	1		
* One additional for "Rowan"			

RECAPITULATION

Commanding Officer.....	1
Wardroom Officers.....	5
Chief Petty Officers.....	9
** Seaman Branch.....	40
Artificer Branch.....	5
Artificer Branch (Engine Room Force).....	34
Special Branch.....	2
Commissary Branch.....	2
Messmen Branch.....	4
** Total.....	102
** Two additional for "Rowan".	

NUMBER OF MESSES

Crew's.....	4
Chief Petty Officer's.....	1

GENERAL INFORMATION.

STATEROOMS AND BERTHS

Commanding Officer's stateroom and berth.....	1
Wardroom staterooms and berths.....	5
Chief Petty Officer's berths....(one additional to be fitted by Gov't) after delivery.....	8
Office Berths.....	2
Crew's berth, forward.....	56
Crew's berth, aft.....	30
Total.....	102

GENERAL DIMENSIONS

Length over all.....	315'-3"
Length between perpendiculars.....	310'-0"
Projection forward of F. P.....	2'-0"
Projection aft of A. P.....	3'-3"
Length of straight keel.....	269'-8"
F. P. to straight keel.....	7'-0"
A. P. to straight keel.....	33'-4"
Length of fender.....	154'-0"
F. P. to fender.....	84'-0"
A. P. to fender.....	72'-0"
Length of bilge keel.....	140'-4"
F. P. to bilge keel.....	90'-10"
A. P. to bilge keel.....	78'-10"
Length on 9'5 $\frac{3}{4}$ " water line - mean draft to bottom of keel.....	310'-0"
Breadth extreme over fenders.....	30'-6 $\frac{1}{2}$ "
Breadth extreme, molded.....	29'-10"
Mean draft to bottom of keel.....	9'-5 $\frac{3}{4}$ "
Midship section, forward of frame No. 89.....	0'-9"
Frame spacing, regular.....	1'-9"
Actual trial displacement, tons.....	
Area of wetted surface to 9'-5 $\frac{3}{4}$ " W. L. (sq. ft.).....	10150.0
Coefficient of fineness, block.....	.444
Coefficient of fineness, midship section.....	.749
Coefficient of fineness, D. W. L.....	.632
Coefficient of fineness, cylindrical.....	.593

HEIGHTS ABOVE DESIGNER'S WATER LINE

Designed water line above bottom of keel.....	9'-5-3/4"
Designed water line above molded base line.....	9'-5-1/4"
Top of ball on foremast.....	95'-10-7/8"
Top of truck light on mainmast.....	95'-3-1/8"
Top of pilot house at center line, frame No. 42, top of plating.....	24'-4-3/8"
Forecastle deck plating at stem, top of plating.....	17'-4-7/32"
Main deck plating at stern, top of plating.....	8'-3-3/4"
Bridge at side, Frame No. 42, top of beam.....	23'-10-11/16"
Bridge at center line, above forecastle deck, molded.....	7'-6"
Searchlight platform, forward, top of plating.....	31'-1-3/8"
Searchlight platform, aft, top of plating.....	22'-5"
Centerline of forward searchlight, frame No. 44.....	35'-0-3/16"
Centerline of after searchlight, frame No. 152.....	26'-3-11/16"

HEIGHTS ABOVE DESIGNER'S WATER LINE - CONTINUED.

Centerline of 21'-0" x 21" triple torpedo tube, frame No. 78, starboard No. 1.....	12'-0-5/8"
Centerline of 21'-0" x 21" triple torpedo tube, frame No. 99, port, No. 2.....	11'-9-3/8"
Centerline of 21'-0" x 21" triple torpedo tube, frame No. 127, starboard, No. 3.....	11'-6-7/8"
Centerline of 21'-0" x 21" triple torpedo tube, frame No. 137, port, No. 4.....	11'-6-3/4"
Centerline of 4-inch R. F. Gun, No. 1. frame No. 54 starboard	13'-5-9/16"
Centerline of 4-inch R. F. Gun No. 2. frame No. 54 port.....	13'-5-9/16"
Centerline of 4-inch R. F. Gun No. 3. frame No. 163, centerline.....	12'-5-3/4"
Centerline of 4-inch R. F. Gun No. 4 frame No. 25, centerline	21'-0-3/8"

GENERAL INFORMATION

LOADS CONTEMPLATED IN DETERMINING THE MEAN DRAFT CORRESPONDING TO THE "DESIGNER'S WATER LINE."

In the design of the vessel the mean draft corresponding to the "DESIGNER'S WATER LINE," viz., 9 foot, 5 $\frac{3}{4}$ -inches, contemplated the following condition of loading:-

Ship complete ready for service in every respect, with full complement of officers and crew with their effects, and consumable load as tabulated below:

Ammunition, including torpedoes, detailed as follows (full supply):-

		WEIGHT IN	
		POUNDS	TONS
2,040	1 pdr. ammunition	3,876	1.73
15,600	.30 caliber rifle ball	1,299	.58
1,600	.30 caliber rifle (dummy)	390	.17
10,000	.45 caliber pistol (automatic)	550	.24
400	4-inch ammunition	28,800	12.86
12	warheads, 367 pounds each	4,404	1.97
12	torpedoes, 2,800 pounds each	33,600	15.00
	black powder, primers, impulse	370	.16
Construction and Repair Stores, 2/3 supply,			32.72
Supplies and Accounts Stores, 2/3 supply,			1.33
Navigation Stores, 2/3 supply,			6.58
Medical Stores, 2/3 supply,			.03
Steam Engineering Stores, 2/3 supply,			.21
Officers' Stores, 2/3 supply,			1.67
Ordnance Stores, 2/3 supply,			1.09
Equipment Stores, 2/3 supply,			.67
Fresh Water, 2/3 supply,			.72
Reserve Feed Water, 2/3 supply,			9.70
Fuel Oil, Ship's, 2/3 supply,			12.30
Fuel for Galley Range, 2/3 supply,			193.30
			2.00