

# U.S.S. R-8

## SUBMARINE NO -85

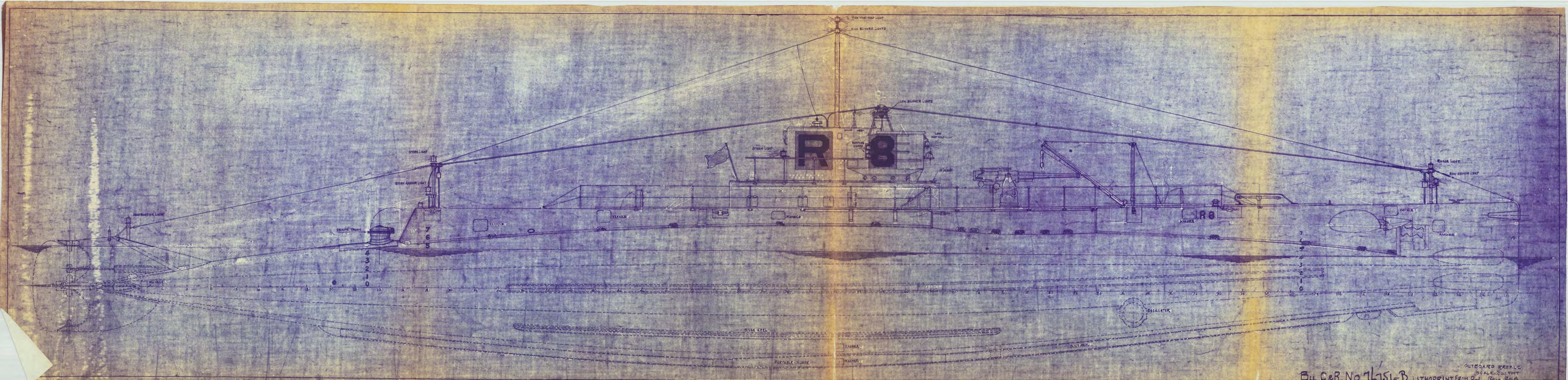
- ORDER OF PLANS
- SECTIONS & PRINCIPAL DIMENSIONS
  - PROFILE OUTBOARD
  - PROFILE INBOARD
  - SUPERSTRUCTURE DECK
  - PLAN BELOW SUPERSTRUCTURE DECK
  - PLAN OF BATTERY DECK
  - PLAN BELOW BATTERY DECK

CORRECTED TO SUIT SHIP		
PLACE	DATE	CONSTRUCTION OFFICER
OFFICE OF SUPT CONST U.S.N. QUINCY ILL	MAY 13, 1920	
NAVY YARD, PEARL HARBOR, T. HONOLULU	APRIL 22, 1917	
	MAY 1, 1920	<i>W. H. ...</i>

Bu. C. & R. No. 76751-A

761  
787

761



NOTE - THIS DRAWING WAS CORRECTED AT NAVY YARD, PEARL HARBOR, T.H., MAY 15, 1937

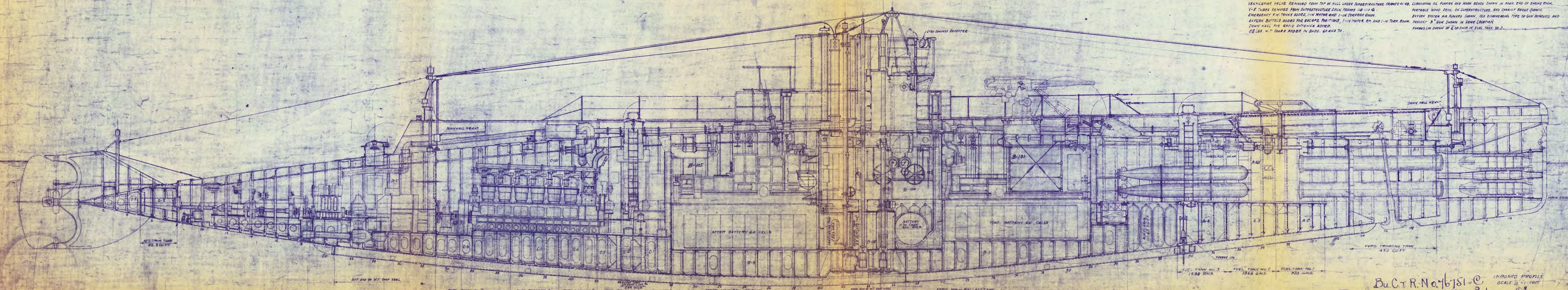
NOTE - THIS DRAWING WAS CORRECTED AT NAVY YARD, PEARL HARBOR, T.H., MAY 15, 1937

ALTERATIONS

LOCATION AND NUMBER OF LIGHTS ALTERED:  
 SUPERSTRUCTURE AFT REMOVED FROM FRAME 2 TO 26  
 CLEARING LINE STANCHION MOVED AFT FROM FRAMES 23-24 TO 28-29.  
 CLEARING LINE EXTENDED AFT TO NEW STANCHION WITH OBSTRUCTION LIGHT.  
 ESCAPE TRUNK FROM MOTOR ROOM ADDED AT FRAME 24 &.  
 GYRO COMPASS REPEATER ADDED ON CHARIOT BRIDGE.  
 GYRO COMPASS MOVED FROM FORD BATT. RM. TO AFT BATT. RM. FRAMES 58 TO 60 &.  
 N.C. ADDED IN FORD. BATT. ROOM FRAMES 70-73 STATED. SIDE.  
 ARRANGEMENT OF BERTHS IN TORPEDO ROOM ALTERED.  
 SALVAGE AIR CONNECTIONS ADDED ON SUPERSTRUCTURE DECK.  
 VENTILATING VALVE REMOVED FROM TOP OF HULL UNDER SUPERSTRUCTURE FRAMES 41-48.  
 Y-S TUBES REMOVED FROM SUPERSTRUCTURE DECK FRAMES 108-110 &.  
 EMERGENCY F.W. TANKS ADDED, 1-IN MOTOR RM. AND 1-IN TORPEDO ROOM.  
 OXYGEN BOTTLES ADDED FOR ESCAPE POSITIONS, 1-IN MOTOR RM. AND 1-IN TORP. ROOM. PRESENT 3" GUN SHOWN IN SAME LOCATION.  
 68 LBS. W.T. DOORS ADDED IN SHDS. 60 AND 70.

ALTERATIONS

FORD TRIMMING AND FUEL OIL COMPENSATING MANIFOLDS SHOWN IN TORPEDO ROOM.  
 S.C. TUBE AND REARRANGEMENT OF VENT. FAN AND AIR PURIFIER SHOWN IN TORPEDO ROOM.  
 PORTABLE SHEET METAL BULKHEAD AND BERTHS SHOWN IN FORD. BATTERY ROOM.  
 VENTILATION OF FORD. BATTERY ROOM, AND MAIN BALLAST TANK VENT. PIPING SHOWN.  
 ALTERATIONS TO CHARIOT BRIDGE, NEW RANGE MANT, LOOP ANTENNA, FLY UP ANTENNA, ENTERING TUBE, STANCHIONS AND CLEARING LINES SHOWN.  
 OLD NO. 3 PERISCOPE AND TRUNK REMOVED, NEW NO. 1 AND NO. 2 PERISCOPES AND WELLS SHOWN.  
 RECOGNITION SIGNAL GUN SHOWN IN AFT BATTERY ROOM, AND SPINNING OF RECOGNITION SIGNAL CONTAINERS SHOWN IN FORD. BATTERY ROOM. VENTILATION TO ELECT. RANGE AND RANGE ROOM SHOWN.  
 VENTILATION FAN AND AIR PURIFIER SHOWN IN AFT BATTERY ROOM.  
 LUBRICATING OIL PURIFIER AND WORK BENCH SHOWN IN FORD. END OF ENGINE ROOM.  
 PORTABLE WOOD DECK ON SUPERSTRUCTURE, AND CHARIOT BRIDGE SHOWN.  
 OXYGEN SYSTEM AIR FLASKS SHOWN. OLD DISAPPEARING TYPE OF GUN REMOVED AND DOWN HAUL FOR RADIO ANTENNA ADDED.  
 FORBES LOG SHOWN AT 2 OF SHIP IN FUEL TANK NO. 3.



Bu.C.T.R. No. 46751-C  
 LITHOPRINT FROM P-1  
 INBOARD PROFILE  
 SCALE 1/4" = 1-FOOT  
 11-8





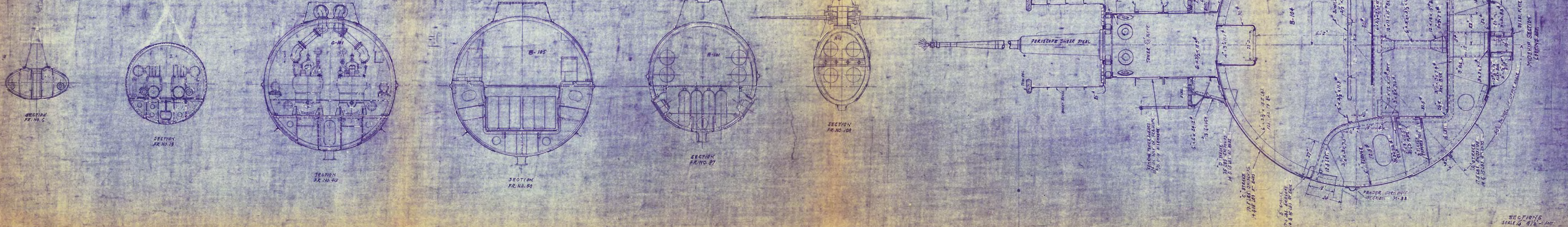


**PRINCIPAL DIMENSIONS**

LENGTH OVERALL	186'-5/8"	HORSE POWER SUBMERGED	934
BEAM EXTREME	17'-11 1/2"	SPEED SUBMERGED - KNOTS	10 1/2
DEPTH OF HULL TO SUPERSTRUCTURE TO DECK OF KEEL	19'-9 3/4"	ARMAMENT 4 TORPEDO TUBES & ONE 3" 50 CAL GUN	
DISPLACEMENT SUBMERGED TONS	624.8	NUMBER OF TORPEDO	8-5 M X 21"
NORME POWER SURFACE	880		
SPEED SURFACE - KNOTS	13 1/2		

**TABLE OF CAPACITIES**

FORD TRIMMING TANK	453 CU. FT.	FUEL TANK NO. 1	938 GALS.
FORD MAIN BALLAST TANK	817 CU. FT.	" NO. 2	1366 "
AUXILIARY BALLAST TANK	734 CU. FT.	" NO. 3	1590 "
AFTER MAIN BALLAST TANK	1199 CU. FT.	" NO. 4	1641 "
AFTER TRIMMING TANK	92.9 CU. FT.	" NO. 5	1302 "
REGULATOR TANK	25 CU. FT.	" NO. 6	1514 "
LUBRICATING OIL TANK	983 GALS.	" NO. 7	1709 "
GUMP TANK	244 GALS.		
FRESH WATER TANK	893 GALS.		



SECTIONS  
SCALE 1/4" = 1 FOOT  
R-1-R-14