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SUBMARINE SS394

BOOKLET OF GENERAL PLANS

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THIS MATERIAL CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18 U.S.C., SECTIONS 793 AND 794, THE TRANSMISSION OR REVELATION OF WHICH IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW

CORRECTED TO SUIT SHIP		
PLACE	DATE	DESIGN SUPT
SAN FRANCISCO NAVAL SHIPYARD, S.F.	JUNE 15, 1956	<i>E. E. Tuck</i>
BY WEST COAST ENGINEERING CO.		
SAN FRANCISCO NAVAL SHIPYARD, SF	11 MAY 1959	<i>L. J. ...</i>
SAN FRANCISCO NAVAL SHIPYARD, S.F.	7 MAR 1962	<i>L. J. ...</i>
PUGET SOUND NAVAL SHIPYARD	25 FEB 1965	<i>J. W. ...</i>
SAN FRAN BAY NAVAL SHIPYARD, M.I.	15 MAR 68	<i>L. J. ...</i>

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NAVAL SHIPYARD		PORTSMOUTH, N.H.	
DRAWN	CB / JJO, I.A.F., A.A.L.	DATE	
CHECKED BY	HUNTINGTON	HEAD ENGINEER	
UNIT HEAD	ss HUNTINGTON	TECHNICAL OFFICER	
SECTION HEAD	<i>A. J. ...</i>	DESIGN SUPT	
BRANCH HEAD	<i>E. E. Tuck</i>		
BUSHIPS NO. SS394-S0103-986311			

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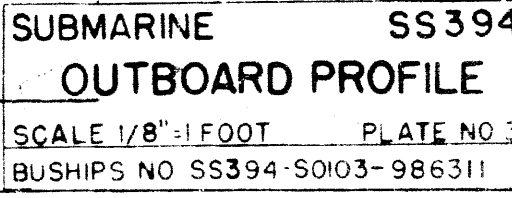
BALLAST TANKS		CU FT	TONS(SW)	FUEL OIL TANKS		GAL	TONS(OIL)	LUBRICATING OIL TANKS		GAL	TONS(OIL)
NO. 1 MAIN BALLAST		1429	40.83	NO. 1 NORMAL FUEL OIL		11400	35.40	NO. 1 ENGINE STOWAGE 95% CAP		855	2.94
NO. 2A & 2B		2072	59.20	NO. 2 NORMAL FUEL OIL		13050	40.53	NO. 2 ENGINE STOWAGE 95% CAP		469	1.61
NO. 2C & 2D		2249	64.24	NO. 6 NORMAL FUEL OIL		14900	46.27	NO. 3 ENGINE STOWAGE 95% CAP		1473	5.06
NO. 6A & 6B		2343	66.96	NO. 7 NORMAL FUEL OIL		10220	31.74				
NO. 6C & 6D		2482	70.92	FUEL OIL COLLECTING		2980	9.25				
NO. 7 MAIN BALLAST		1430	40.85	FUEL OIL EXPANSION		2980	9.25				
SAFETY		847	24.19	NO. 1 CLEAN FUEL OIL 95% CAP		950	2.95	TOTAL		2797	9.61
NO. 3 FUEL BALLAST (3A & 3B)		2573	74.92					NO. 1 MAIN ENGINE SUMP RATED CAP		350	1.20
NO. 4 FUEL BALLAST (4A & 4B)		3212	93.56								
NO. 5 FUEL BALLAST (5A & 5B)		2595	75.72	TOTAL		56480	175.39	NO. 3 MAIN ENGINE SUMP RATED CAP		350	1.20
TOTAL		19802	570.56					NO. 4 MAIN ENGINE SUMP RATED CAP		350	1.20
								TOTAL		1050	3.60
VARIABLE BALLAST TANKS		GAL	TONS(SW)					MAIN MOTOR SUMPS 1&2 RATED CAP		90	0.31
NO. 1 AUXILIARY		8181	31.26	FUEL BALLAST				COMBINED TOTAL		3937	13.52
NO. 2 AUXILIARY		8181	31.26	NO. 3A & 3B		19246	59.77				
FORWARD TRIM		6430	24.57	NO. 4A & 4B		24032	74.63				
FORWARD WRT		1309	5.00	NO. 5A & 5B		19410	60.28				
AFTER TRIM		5035	19.24	TOTAL		62688	194.68				
AFTER WRT		1382	5.28	COMBINED TOTAL		119168	370.07				
NEGATIVE		3167	12.10	FRESH WATER TANKS		GAL	TONS(FW)				
TOTAL		33685	128.71	NO. 1 & 2		2188	8.15				
				NO. 3		1053	3.92				
BOW BUOYANCY		3835	14.65	NO. 5 & 4		1980	7.37				
				BATTERY FRESH WATER		5221	19.44				
				TOTAL		597.8	2.22				
SANITARY TANKS				FWD		597.8	2.22				
NO. 1 SANITARY (FWD)		320	1.22	AFT		597.8	2.22				
NO. 2 SANITARY (AMIDSHIPS)		1100	4.20			1195.6	4.44				
NO. 3 SANITARY (AFT)		426	1.63	TOTAL							
TOTAL		1846	7.05								

- NOTES
1. MBT CAPACITIES ARE GROSS TANK MINUS RESIDUAL WATER. GROSS TANK IS TANK PLUS VENT PIPING. VOLUME OCCUPIED BY LEAD BALLAST HAS NOT BEEN ACCOUNTED FOR IN THESE CALCULATIONS.
 2. FUEL OIL TANK CAPACITIES: "GALLONS" IS GROSS TANK. "TONS OIL" IS USEABLE CAPACITY WHICH IS TANK CAPACITY MINUS WATER SEAL.

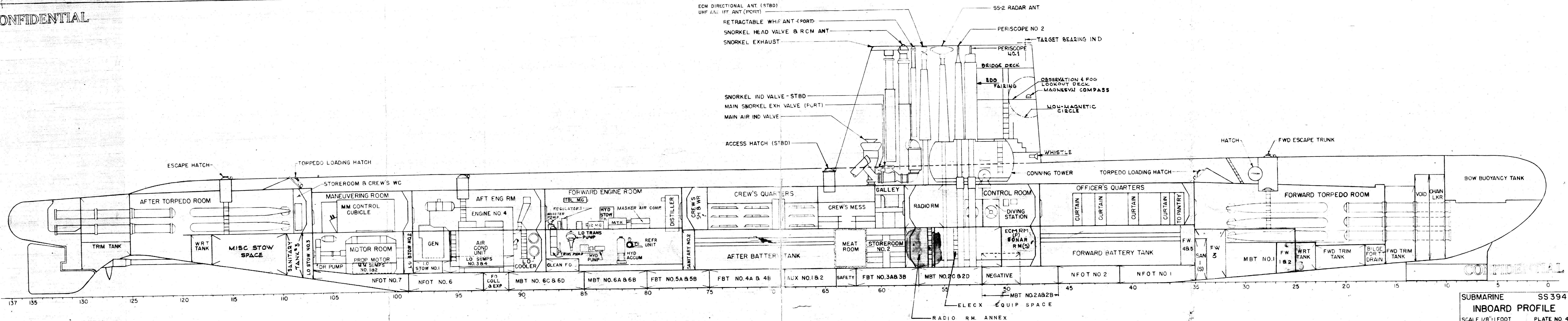
PRINCIPAL DIMENSIONS				HEIGHTS		FRAME SPACING	
LENGTH OVERALL				306'-2 1/2"	LOWEST POINT OF KEEL TO TOP OF STRENGTH HULL AMIDSHIPS	19'-10"	0 TO FR 35
LENGTH BETWEEN PERPENDICULARS				304'-10 1/4"	LOWEST POINT OF KEEL TO TOP OF CT FAIRWATER	47'-10"	FR 35 TO FR 62
PROJECTION FWD OF F P				16' 1/4"	LOWEST POINT OF KEEL TO TOP OF HIGHEST PERISCOPE EXTENDED	66'-6 7/16"	FR 62 TO FR 69
LENGTH OF STRAIGHT KEEL				154'-8 1/4"	LOWEST POINT OF KEEL TO TOP OF CONNING TOWER PLATING	28'-4 1/2"	FR 69 TO FR 103
BREADTH, MOLDED				27'-1 3/4"	LOWEST POINT OF KEEL TO TOP OF PERISCOPE FOUNDATION	33'-2"	FR 103 TO FR 104
BREADTH, EXTREME				27'-3 3/4"	LOWEST POINT OF KEEL TO TOP OF PERISCOPE SUPPORTS	47'-31/2"	FR 104 TO FR 106
RATIO - LENGTH TO BEAM				11.31	LOWEST POINT OF KEEL TO TOP OF NO. 1 PERISCOPE EXTENDED	62'-65/16"	FR 106 TO FR 137
DRAFT - SURFACE CONDITION TO UNDERSIDE OF KEEL PLATES (MEAN) N D T				15'-1 1/2"	LOWEST POINT OF KEEL TO TOP OF SNORKEL IND VALVE EXTENDED	61'-5 1/4"	
SHAFTS - DIVERGE AT ANGLE WITH CL OF SHIP				1° 39'	LOWEST POINT OF KEEL TO CL OF MASTHEAD LIGHT	43'-2"	
SHAFTS - CL AT MAIN MOTOR (12-3/4" AFT OF FR 104) FROM CL OF SHIP				4'-3.4644"	LOWEST POINT OF KEEL TO TOP OF ECM (DF) MAST	64'-9 3/4"	NUMBER OF FRAMES
SHAFTS - CL FROM BASELINE AT FR 128				6" 9"	LOWEST POINT OF KEEL TO TOP OF UHF MAST	64'-9 3/4"	137
SHAFTS RAKE OUTBOARD & AFT PER INCH FROM CL				0.02874"	LOWEST POINT OF KEEL TO TOP OF VHF MAST	61'-6 3/4"	
SHAFTS RAKE FROM BASELINE & FWD PER INCH				0.02613"	LOWEST POINT OF KEEL TO TOP OF NO. 2 PERISCOPE EXTENDED	66'-6 7/16"	
SHAFTS - CL AT MAIN MOTOR (12-3/4" AFT OF FR 104) ABOVE BASELINE				8'-0"	LOWEST POINT OF KEEL TO TOP OF SS-2 RADAR MAST	58'-5 1/2"	
PROPELLER CENTER FWD OF A P				18'-4 7/8"			
RUDDER AXIS FWD OF A P				10'-6"			
NUMBER OF FRAMES				137			
ACCOMMODATIONS				COMPT.	FLOODABLE VOL.	V.C.G.	L. C. G. ABV.
COMPARTMENT	OFFICERS	C. P. O.	CREW		CU. FT.	TONS S.W.	KEEL BOTT. FROM FR. 69
FORWARD TORPEDO ROOM			14	FWD. TORP. RM.	4460	127.4	13.00 FT. 99.50 FT. FWD.
OFFICERS' QUARTERS	10	5		FWD. BATT. & OFF. QTRS.	4224	120.7	13.52 FT. 65.25 FT. FWD.
CREW'S QUARTERS			36	COC. PUMP RM	4016	114.7	12.14 FT. 38.04 FT. FWD.
AFTER TORPEDO ROOM			16	CONNING TOWER	670	19.1	24.38 FT. 37.29 FT. FWD.
TOTAL	10	5	66	AFT. BATT. & CREW'S QTRS	6364	181.8	13.14 FT. 1.99 FT. FWD.
TOTAL ACCOMMODATIONS 81				FWD. ENGINE RM.	3742	106.9	12.44 FT. 33.48 FT. AFT.
				AFT. ENGINE RM.	4235	121.0	12.26 FT. 60.04 FT. AFT.
				MANEUVERING RM.	3114	89.0	12.25 FT. 85.91 FT. AFT.
				AFT. TORP. RM.	5007	104.2	15.30 FT. 110.50 FT. AFT.

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SUBMARINE SS394
GENERAL DIMENSIONS
SCALE - PLATE NO. 2
BUSHIPS NO. SS394-SOI03-986311

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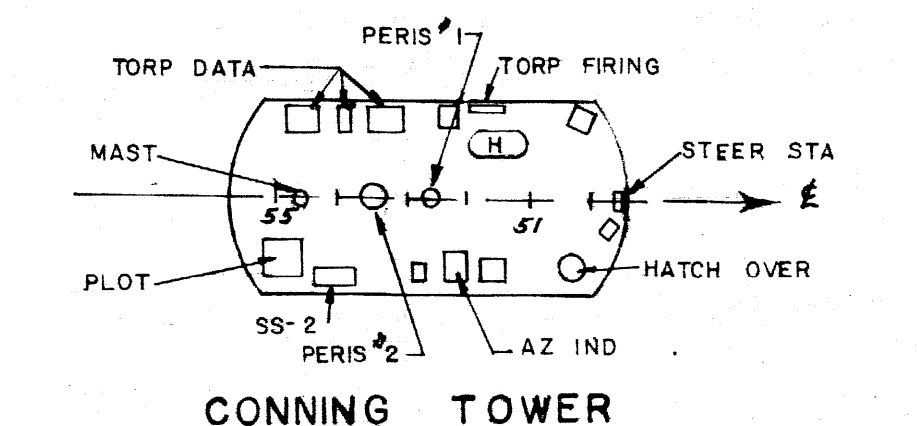
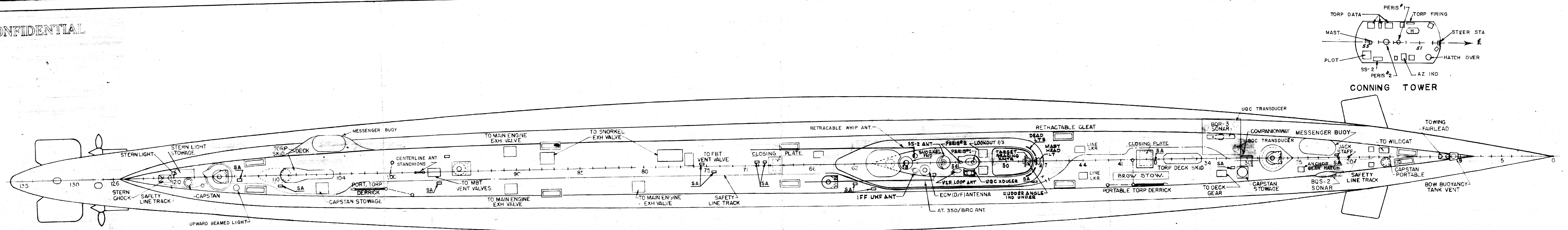
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SUBMARINE SS 394
INBOARD PROFILE
SCALE 1/8"=1 FOOT PLATE NO. 4
BUSHIPS NO SS 394-50103-986311

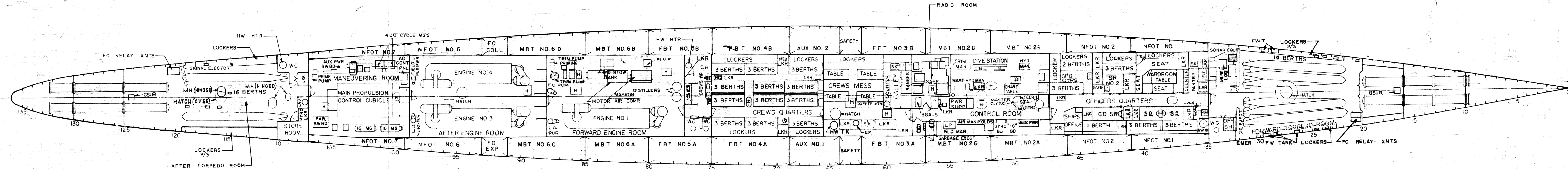
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SUBMARINE SS394
MAIN DECK
SCALE 1/8"=1'00"
BJSHIPS NO SS394-SOI03-986311

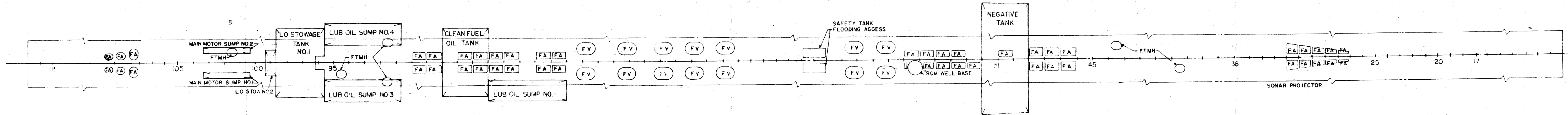
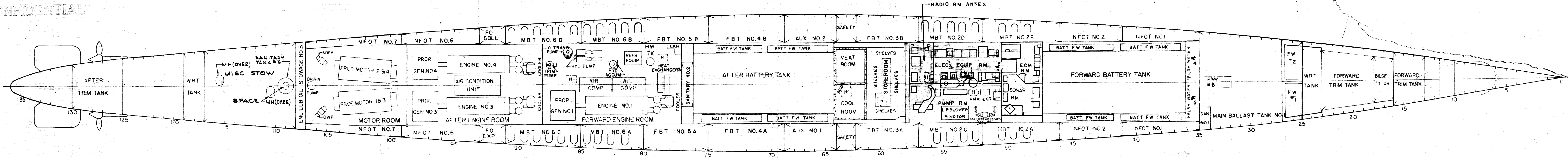
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SUBMARINE SS3
PLATFORM DECK
SCALE 1/8"=1FOOT PLATE
BUSHIPS NO. SS394-S0103-986311

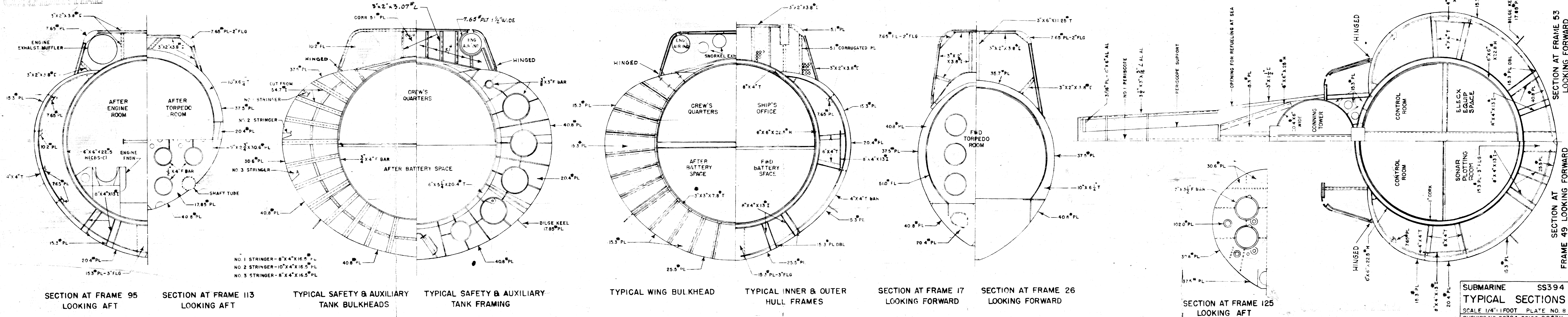
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SKETCH OF FLOODING HOLES & VALVES

UBMARINE SS394
HOLD
ALE VB-1FCOT PLATE NO. 7
SHIPS NO. SS394 SO103-986311

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SUBMARINE SS394
TYPICAL SECTIONS
SCALE 1/4" = 1 FOOT PLATE NO. 8
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