

U.S. SUBMARINE

~~CONFIDENTIAL~~
~~RESTRICTED~~

SS 339

BOOKLET OF GENERAL PLANS

CORRECTED TO SUIT SHIP		
PLACE	DATE	APPROVED
GROTON, CONN.	MAR. 19 1945	<i>J. Scheibeler</i>
MARE ISLAND NAVAL SHIPYARD	19 - JUNE 1947	<i>J. Scheibeler</i> FOR COM'DR.
MARE ISLAND NAVAL SHIPYARD	1 - JUNE 1949	<i>J. Scheibeler</i> FOR COM'DR.
SAN FRANCISCO NAVAL SHIPYARD	24 June 1953	<i>C. H. H. H. H.</i>
SAN FRANCISCO NAVAL SHIPYARD ^{LS}	9 MAY 1955	<i>J. Scheibeler</i>
MARE ISLAND NAVAL SHIPYARD ^{GTW.}	4 OCT. 1957	<i>J. Scheibeler</i> FOR COMDR.
MARE ISLAND NAVAL SHIPYARD	22 AUG. 1960	<i>J. Scheibeler</i>
SAN FRANCISCO NAVAL SHIPYD.	23 SEPT. 1963	<i>J. Scheibeler</i>
SFNSY - PILLSBURY/MARTIGNONI	17 AUG 66	<i>J. Scheibeler</i>
SFBNS - VALLEJO RNB	16 JULY 1969	<i>J. Scheibeler</i>

- ORDER OF PLANS
- SHEET NO. 1 COVER
 - SHEET NO. 2 TANK CAPACITIES & GEN. DATA
 - SHEET NO. 3 MAIN DECK & BRIDGE DECK
 - SHEET NO. 4 OUTBOARD PROFILE
 - SHEET NO. 5 PLATFORM DECK
 - SHEET NO. 6 HOLD
 - SHEET NO. 7 INBOARD PROFILE
 - SHEET NO. 8 MIDSHIP & TYPE CROSS SECTIONS

ELECTRIC BOAT COMPANY, GROTON, CONN.	
DATE <u>MARCH 2, 1945</u>	APPROVED
DRAWN <u>N.S.L.</u>	
TRACED <u>LDK</u>	FOR SS339
CHECKED <u>R.L.D.</u>	ASSIGNED BU. NO. 55339-50107-234246
EXAMINED <u>P. H. H.</u>	DATE <u>3/28/45</u> CAPTAIN, U.S.N.
APPROVED <u>R. Simpson</u>	FOR SUPERVISOR OF SHIP BUILDING
2421-179	BU. OF SHIPS NO. 55339-50107-234246

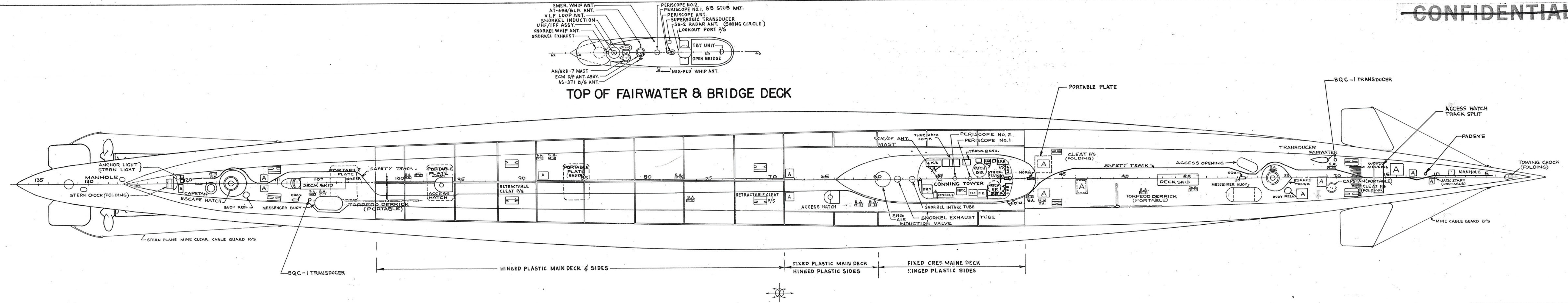
PRINCIPAL DIMENSIONS		HEIGHTS		CAPACITIES & VOLUMES OF TANKS										FLOODABLE VOLUME & CENTERS OF GRAVITY OF COMPTS.																
LENGTH OVERALL	307'-6"	LOWEST POINT OF KEEL TO TOP OF STRENGTH HULL AMIDSHIPS ON & OF SHIP	19'-10 ³ / ₁₆ "	MAIN BALLAST TANKS		GALLONS	TONS		FUEL OIL TANKS		GALLONS	TONS		SANITARY TANKS		GALLONS	TONS		COMPARTMENT	FLOODABLE VOLUME		VCG FT. ABV. BASE	LCG FROM FR. 69							
LENGTH BETWEEN PERPENDICULARS	307'-2"		S.W.	OIL	S.W.	OIL	S.W.	OIL	F.W.	OIL																				
PROJECTION FORWARD OF F.P.	6"	LOWEST POINT OF KEEL TO TOP OF BRIDGE DECK	47'-6"	NO. 1 MAIN BALLAST		11,707	44.71		NO. 1 NORMAL FUEL OIL		11401	43.54 35.41		NO. 1		556	207		FWD. TORP. RM.	4481	128.03	13.70	99.50 FWD.							
LENGTH OF STRAIGHT KEEL	154'-9"	LOWEST POINT OF KEEL TO TOP OF CONNING TOWER PLATING	28'-4 ¹ / ₂ "	NO. 2A & 2B MAIN BALLAST		15,088	57.63		NO. 2 NORMAL FUEL OIL		13122	50.1 40.75		NO. 2		673	2.50		FWD. BATT. & OFF. QTRS.	4244	121.26	13.55	66.00 FWD.							
BREADTH MOULDED	27'-2 ³ / ₈ "		NO. 2C & 2D MAIN BALLAST	17,041	65.09		NO. 3A & 3B FUEL BALLAST		19705	75.26		NO. 3A & 3B FUEL BALLAST		SEE	19704	75.26 61.20		TOTAL		1229	4.57		COC, PUMP RM. & BATT.	4496	128.46	12.09	37.70 FWD.			
BREADTH EXTREME	27'-4 ¹ / ₈ "	LOWEST POINT OF KEEL TO TOP OF EXTENDED POSITION OF PERISCOPE NO. 1	64'-7"	NO. 3A & 3B FUEL BALLAST		19705	75.26		NO. 4A & 4B FUEL BALLAST		24671	94.23 76.63		NO. 4A & 4B FUEL BALLAST		RATED	24671	94.23 76.63		FRESH WATER	NO. 1 STARBOARD	838	3.12	AFT BATT. & CREW QTRS.	5543	158.37	13.73	0.77 FWD.		
DRAFT SURFACE CONDITION TO UNDERSIDE OF KEEL PLATE (MEAN) DESIGNED	15'-2 ¹ / ₄ "		NO. 4A & 4B FUEL BALLAST	24671	94.23		NO. 5A & 5B FUEL BALLAST		19704	75.26 61.99		NO. 5A & 5B FUEL BALLAST		CAPACITIES	19704	75.26 61.99		NO. 6 NORMAL FUEL OIL	15091					57.64 47.21		FWD. ENGINE RM.	4535	129.57	12.74	34.30 AFT
RATIO-LENGTH TO BEAM	11.29	LOWEST POINT OF KEEL TO FWD ANCHOR LIGHT	32'-8"	NO. 5A & 5B FUEL BALLAST		19704	75.26		NO. 6 NORMAL FUEL OIL		15091	57.64 47.21		NO. 6A & 6B MAIN BALLAST		17460	66.69		NO. 7 NORMAL FUEL OIL		10775	41.15 34.00		AFT ENGINE RM.	4277	122.20	12.74	60.90 AFT		
SHAFTS DIVERGE AT ANGLE WITH & OF SHIP	2°-49'-6"	LOWEST POINT OF KEEL TO MASTHEAD LIGHT	45'-5 ³ / ₈ "	NO. 6C & 6D MAIN BALLAST		18507	70.69		COLLECTING		2993	11.43 9.30		SAFETY TANK		6082	23.23		EXPANSION		2993	11.43 9.30		MANEUVERING RM.	3410	97.43	13.60	84.00 AFT		
SHAFTS & AT FR. 107 ABOVE BASE LINE	7'-4.4235"		TOTAL	149964	572.78		CLEAN FUEL OIL NO. 1		95% NET	611	2.3 1.90		CLEAN FUEL OIL NO. 2		CAP.	618	2.37 1.92		TOTAL		121,683	464.76 377.90		NO. 2 PORT	838	3.12	AFT. TORPEDO ROOM & MISC. STOW. SPACE. (EX. MBT #7.)	4471	127.74	13.52
SHAFTS & AT FR. #128-ABOVE BASE LINE	6'-10"	LOWEST POINT OF KEEL TO & OF EMER. STERN LIGHT (CONNING TOWER FAIRWATER)	27'-9"	VARIABLE BALLAST TANKS		LUBRICATING OIL TANKS		NO. 1 STARBOARD		838	3.12		NO. 3 STARBOARD		973	3.62		NO. 4 PORT		973	3.62		CONNING TOWER	827	23.63	24.30	36.54 FWD.			
SHAFTS RAKE OUTBOARD AND AFT. 0.04914" PER INCH FROM &		LOWEST POINT OF KEEL TO SIDE LIGHT	37'-1 ³ / ₈ "	AUXILIARY-NO. 1		8057	30.77		NORMAL LUB. OIL NO. 1		804	2.76		NO. 2 PORT		838	3.12		TOTAL		4,675	1,740		NOTE:- NO REDUCTIONS HAVE BEEN MADE FOR LEAD BALLAST IN THE MAIN BALLAST TANKS.						
SHAFTS RAKE FROM BASE LINE AND FORWARD 0.01473" PER IN. FROM BL.		LOWEST POINT OF KEEL TO TOP OF SS RADAR ANT.	49'-10 ³ / ₁₆ "	AUXILIARY-NO. 2		8057	30.77		NORMAL LUB. OIL NO. 2		924	3.18		BATTERY FRESH WATER		GALS.	TONS F.W.		FOR'D.		749.	2.78								
SHAFTS & AT FR. 107 FROM & OF SHIP	3'-7.2284"	LOWEST POINT OF KEEL TO & OF AFT. ANCHOR LIGHT	24'-10 ⁷ / ₈ "	NEGATIVE		3097	11.83		NORMAL LUB. OIL NO. 3		926	3.18		AFT.		772	2.87		TOTAL		1521.	5.65								
RUDDER AXIS FORWARD OF A.P.	10'-6"	LOWEST POINT OF KEEL TO & OF AFT. ANCHOR LIGHT	24'-10 ⁷ / ₈ "	FORWARD TRIMMING		6366	24.3		95% NET. CAP.																					
NUMBER OF FRAMES	137	LOWEST POINT OF KEEL TO TOP OF IFF. ANT. ON SNORKEL (RAISED)	62'-5 ¹ / ₄ "	FORWARD W.R.T.		1294	4.94		RESERVE LUB. OIL NO. 1		1201	4.12																		
SCREWS CENTER FORWARD OF A.P.	18'-4 ¹ / ₈ "	LOWEST POINT OF KEEL TO TOP OF IFF. ANT. ON SNORKEL (HOUSED)	49'-8 ¹ / ₄ "	AFTER TRIMMING		5229	19.97		TOTAL		3855	13.23																		
FRAME SPACING- FR. 0 TO FR. #35-24", FR. 35 TO FR. 62-30", FR. 62 TO FR. 69 24", FR. 69 TO FR. 105-30", FR. 105 TO FR. 136-24"		LOWEST POINT OF KEEL TO TOP OF IFF. ANT. ON SNORKEL (HOUSED)	49'-8 ¹ / ₄ "	AFTER W.R.T.		1324	5.06		TOTAL		3855	13.23																		
		LOWEST POINT OF KEEL TO TOP OF #2 PERISCOPE	66'-6 ³ / ₁₆ "	TOTAL		33424	127.66		MAIN ENGINE SUMP NO. 1		382	1.31																		
		LOWEST POINT OF KEEL TO EXTREME TOP OF FAIRWATER PLATING	47'-6"	RATED CAPACITIES & WATER SEAL		FUEL BALLAST TANKS		75% NET		MAIN ENGINE SUMP NO. 3		382	1.31																	
		LOWEST POINT OF KEEL TO TOP OF MID FED WHIP ANT.	78'-0 ¹ / ₈ "	GALLONS		TONS OIL	GALLONS	TONS S.W.	CAP.		MAIN ENGINE SUMP NO. 4		382	1.31																
		LOWEST POINT OF KEEL TO STERN LIGHT	23'-11 ⁷ / ₈ "	NO. 3A & 3B FUEL BALLAST		19195	59.61 509 1.94		TOTAL		1146		3.93																	
				NO. 4A & 4B FUEL BALLAST		24088	74.81 583 2.23		MN. MOTOR L.O. SUMP 75% NET CAP		132		0.45																	
				NO. 5A & 5B FUEL BALLAST		19203	59.64 501 1.91																							
				TOTAL		624.86	194.06 1593 6.08																							
										GRAND TOTAL		51.33 17.61																		

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SUBMARINE:- SS339
TANK CAPACITIES & GEN. DATA
SHEET NO.2
BU. SHIPS NO. SS339-S0107-234246

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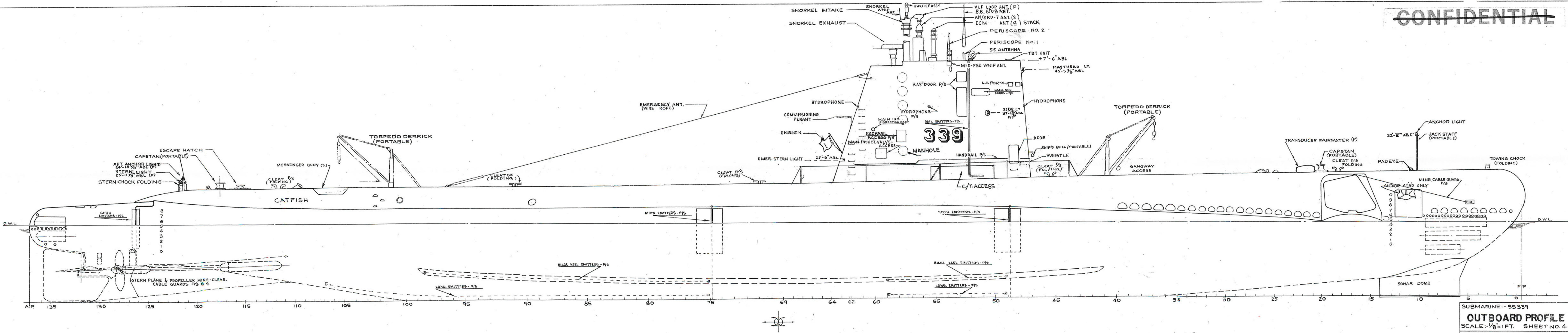
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ABBREVIATION
S.A. = SALVAGE AIR CONNECTION
A. = ACCESS HATCH

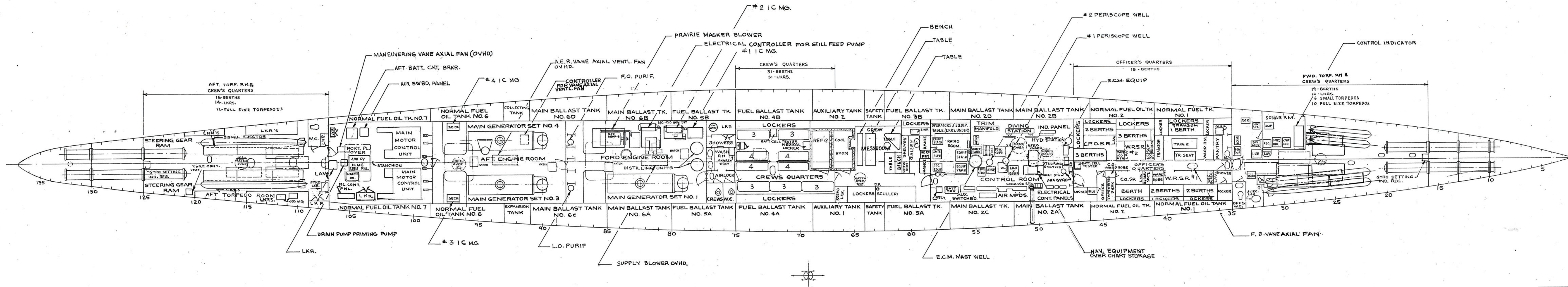
SUBMARINE: SS 339
MAIN DECK & BRIDGE DECK
SCALE: 1/8" = 1 FT. SHEET NO. 3
BU. SHIPS NO. SS 339-50107-234246

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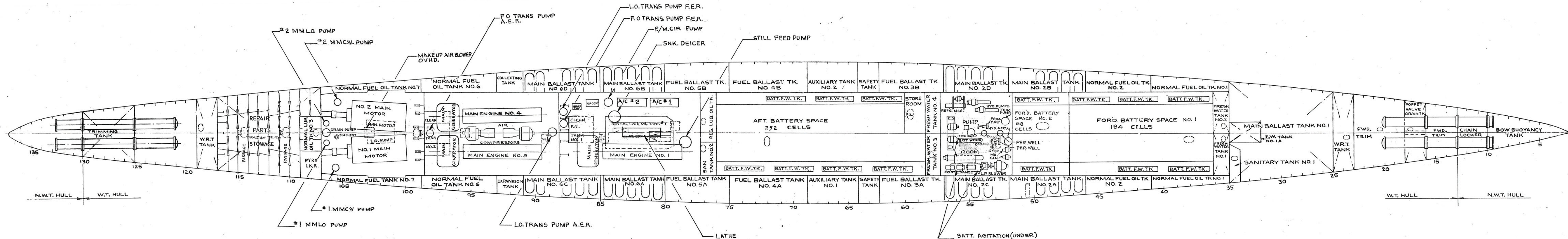
SUBMARINE: - SS339
OUTBOARD PROFILE
SCALE: 1/8"=1 FT. SHEET NO. 4
BU. SHIPS NO. 55339 - SOI 07-234246

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SUBMARINE:-SS 339
PLATFORM DECK
SCALE: $\frac{1}{8}$ " = 1 FT. SHEET NO.5
BU. SHIPS NO. SS339 - S0107-234240

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SUBMARINE:-SS 339

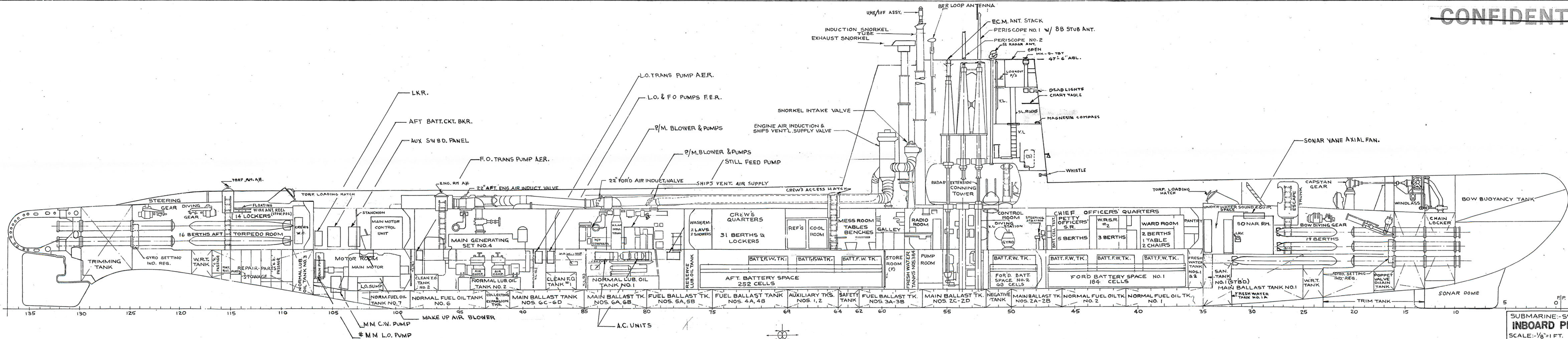
HOLD

SCALE: $-\frac{1}{8}'' = 1 \text{ FT}$

SHEET NO. 6

BU.SHIRPS NO. 55339-50107-234246

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SUBMARINE: SS 339
INBOARD PROFILE
SCALE: 1/8" = 1 FT. SHEET NO. 7
BU SHIPS NO. SS 339-50107-234246

FRAME 120 FRAME 113
SECTION LOOKING AFT.

TYPICAL WING BULKHEAD TYPICAL INNER & OUTER
HULL FRAMES

SECTION LOOKING AFT.

TYPICAL SAFETY & AUXILIARY TANK FRAME & BULKHEAD
SECTION LOOKING AFT.

A* STRAKE	40.8 ⁵	PL. (H.T.) P/S.
B* STRAKE	35.7 ⁷	PL. (H.T.) P/S
C* STRAKE	35.7 ⁷	PL. (H.T.) P/S
D* STRAKE	35.7	PL. (H.T.) P/S
E* STRAKE	35.7	PL. (H.T.) P/S

F = STRAKE 37.5# PL. (H.T.) F STRAKE 30.6# PL. (H.T.)
 FRAME 26 FRAME 20
 SECTION LOOKING FORWARD

FRAME 52		FRAME 49	
MIDSHIP		SECTION	
LOOKING		FORWARD	
A = STRAKE 40.8 ^{PL} (H.T.)	A = STRAKE 20.4 ^{PL}		
C = STRAKE 17.85 ^{PL}	B = STRAKE 15.3 ^{PL}		
D = STRAKE 15.3 ^{PL}	C = STRAKE 17.85 ^{PL}		
E = STRAKE 15.3 ^{PL}	D = STRAKE 15.3 ^{PL}		
	E = STRAKE 15.3 ^{PL}		

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SS339 - S0107 - 234246 ALT. F

THIS DRAWING HAS BEEN MICROFILMED
AT THE MARE ISLAND NAVAL SHIPYARD