RESTRICTED

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We also appreciate the help of Oce North America for their assistance in scanning this document.

U.S.S. SS190

BOOKLET OF GENERAL PLANS

CORRECTED TO SUIT SHIP		
PLACE	DATE	CONSTRUCTION OFFICER
GROTON, CONN.	MAR. 21 1939	D. W. Coe
MARE ISLAND N.Y.	MAY 6 1943	APPVD FOR MGR.
MARE ISLAND N.Y.	21 AUG. 1944	H. E. Miller APPVD FOR MGR.

ORDER OF PLANS

SHEET No 1 COVER
SHEET No 2 TANK CAPACITIES & GENERAL DATA
SHEET No. 3 MAIN & BRIDGE DECKS
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 FEB. 16, 1939
DRAWN L.M.C.
TRACED A.M.S.
CHECKED L.N.
EXAMINED
APPROVED

APPROVED
FOR SS190
ASSIGNED BU. No. 249390
DATE 11/7/39.
D. W. Coe
COMMANDER C.C. U.S.N.
SUPERINTENDING CONSTRUCTOR

CONTRACTOR'S PLAN NO. 1539-12

C.& R. No. 249390

PRINCIPAL DIMENSIONS

LENGTH OVERALL	310'-6"
LENGTH BETWEEN PERPENDICULARS	302'-6"
PROJECTION FORD OF F.P.	8'-0"
LENGTH OF STRAIGHT KEEL	147'-0"
BREADTH MOLDED	26'-11¾"
BREADTH EXTREME	27'-1½"
DRAFT SURFACE CONDITION TO UNDERSIDE OF KEEL PLATES (MEAN)	16'-8½"
RATIO - LENGTH TO BEAM	11.21
SHAFTS DIVERGE AT ANGLE WITH ℄ SHIP	1° 9'-1"
SHAFTS ℄ AT REDUCTION GEAR (7½" AFT. FRAME #149) ABOVE BASE LINE	8'-6"
SHAFTS AT ℄ FR. #185 FROM ℄ SHIP	5'-8"
SHAFTS RAKE OUTBOARD AND AFT	.0201" PER INCH FROM ℄
SHAFTS RAKE FROM BASELINE AND FORD	.0211" PER INCH FROM B.L.
SHAFTS ℄ FROM BASELINE AT FR. #185	7'-1"
SHAFTS ℄ AT REDUCTION GEAR (7½" AFT. FR #149) FROM ℄ SHIP	4'-4¾"
RUDDER AXIS FORD OF A.P.	11'-6"
NUMBER OF FRAMES	198
FRAME SPACING - BOW TO FR. 35 - 24" - FR. 35 TO FR. 89 - 15" - FR. 89 TO FR. 95 - 24" FR. 95 TO FR. 157 - 15" - FR. 157 TO FR. 193 - 24" - FR. 193 TO STERN - 2'-0"	
SCREWS CENTER FORD OF A.P.	18'-6"

HEIGHTS

LOWEST POINT OF KEEL TO TOP OF STRENGTH HULL AMIDSHIPS ON ℄	20'-4"
LOWEST POINT OF KEEL TO TOP OF BRIDGE DECK (FORD)	28'-2⅜"
	(AFT.) 32'-3⅜"
LOWEST POINT OF KEEL TO TOP OF WINDSKIELD	35'-6⅝"
LOWEST POINT OF KEEL TO SIGNAL BRIDGE	37'-5⅝"
LOWEST POINT OF KEEL TO TOP OF HIGHEST PERISCOPE EXTENDED	67'-4⅜"
LOWEST POINT OF KEEL TO MASTHEAD LIGHT	41'-4⅝"
LOWEST POINT OF KEEL TO BOTTOM OF SIDE LIGHTS	30'-6⅝"

FRESH WATER TANKS

TANKS	GALS F.W.	TONS F.W.
SHIPS F. W. NO. 1	1032	3.85
SHIPS F. W. NO. 2	1032	3.85
SHIPS F. W. NO. 3	1204	4.49
SHIPS F. W. NO. 4	1204	4.49
BATTERY F.W. FORD.	618	2.30
BATTERY F.W. AFT.	624	2.32
TOTAL	5714	21.30

SANITARY TANKS

TANKS	GALS. F.W.	TONS F.W.
SAN. TANK NO. 1	209	0.79
SAN. TANK NO. 2	344	1.28
SAN. TANK NO. 3	359	1.34
SAN. TANK NO. 4	172	0.64
TOTAL	1084	4.05

LUBRICATING OIL SUMP TANKS

TANKS		GALS. L.O.	TONS. L.O.
SUMP TANK NO. 1	75% FULL	438	1.50
SUMP TANK NO. 2		438	1.50
SUMP TANK NO. 3		520	1.78
SUMP TANK NO. 4		520	1.78
STBD. R.G. & CL. SUMP		426	1.46
PORT. R.G. & CL. SUMP		322	1.10
TOTAL		2664	6.56

VARIABLE TANKS

TANKS	GALS. S.W.	TONS S.W.
FORD. TRIM TANK	7959	30.40
FORD. W.R. TORP.	860	3.28
AUX. NO. 1	4623	17.66
AUX. NO. 2	4279	16.34
AUX. NO. 3	4279	16.34
AFT. W.R. TORP.	1332	5.09
AFT. TRIM. TANK	4189	16.00
TOTAL	27521	105.11
NAGATIVE TANK	2116	8.08

NORMAL FUEL OIL TANKS

TANKS	GALS.	TONS F.O.	TONS S.W.
TANK NO. 1	17023	54.87	65.02
TANK NO. 2	16309	52.57	62.29
TANK NO. 3	16772	54.06	64.06
TANK NO. 4	16391	52.83	62.60
TANK NO. 5	19488	62.81	74.43
COLLECT	3666	11.82	14.00
EXPANSION	3666	11.82	14.00
CLEAN F.O. NO. 1	494	1.59	
CLEAN F.O. NO. 2	491	1.58	
TOTAL	94300	303.95	356.40

STORAGE LUBRICATING OIL TANKS

TANKS	GALS L.O.	TONS L.O.
TANK NO. 1	718	2.46
TANK NO. 2	973	3.33
TANK NO. 3	534	1.83
TANK NO. 4	2238	7.66
M.M. & RED. GEAR	534	1.83
TOTAL	4997	17.11

MAIN BALLAST TANKS

INCLUDING VENT PIPING

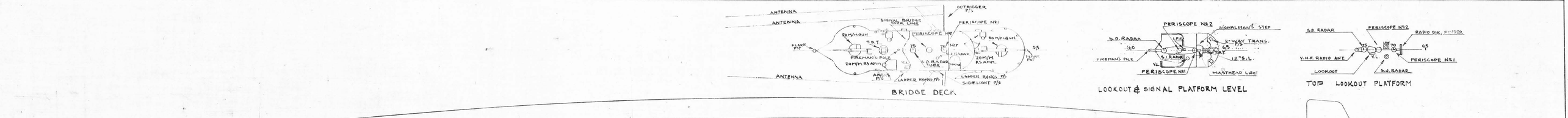
TANKS	GALS. S.W.	TONS S.W.
M.B. TANK NO. 1	12807	48.91
M.B. TANK NO. 2A & 2B	14116	53.91
M.B. TANK NO. 2C & 2D	16764	64.03
M.B. TANK NO. 2E & 2F	16622	63.49
F.B. TANK NO. 3A & 3B	17026	65.03
M.B. TANK NO. 3C & 3D	13808	52.74
M.B. TANK NO. 3E & 3F	12552	47.94
M.B. TANK NO. 4	11131	42.51
SAFETY TANK	6411	24.49
TOTAL S.W.	121238	463.05

RATED CAPACITIES & WATER SEAL

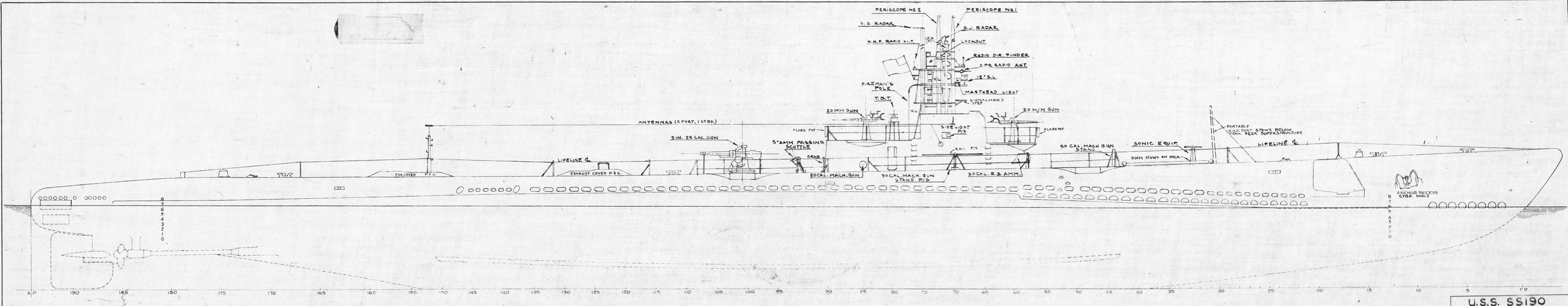
FUEL OIL TANK	RATED CAPACITY GALS	RATED CAPACITY TONS F.O.	WATER SEAL GALS	WATER SEAL TONS S.W.
F.B. Nº 3A & 3B	16330	52.01	696	2.66

NOTE:
NO DEDUCTIONS HAVE BEEN MADE FOR LEAD BALLAST.

U.S.S. SS130
TANK CAPACITIES & GENERAL DATA
SCALE - SHEET NO.
C.&R. NO. 249390



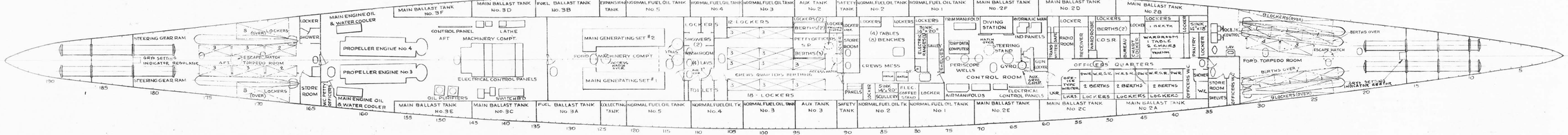
U.S.S. SS190
MAIN & BRIDGE DECKS
SCALE: 1/8" = 1 FOOT
SHEET No. 3
C. & R. NO. 249390



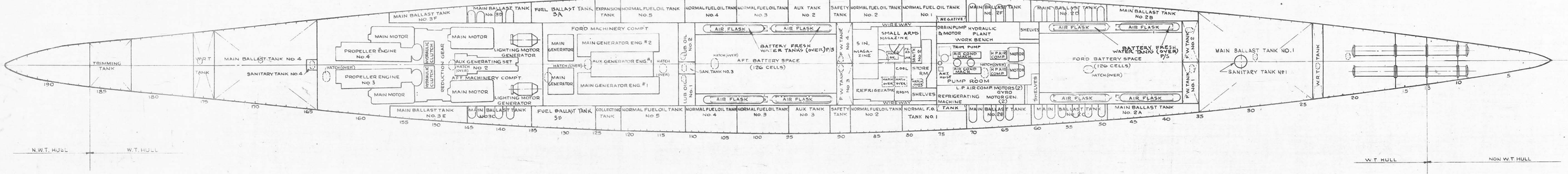
U.S.S. SS190
OUTBOARD PROFILE

SCALE 1/8" = 1 FOOT SHEET NO. 4

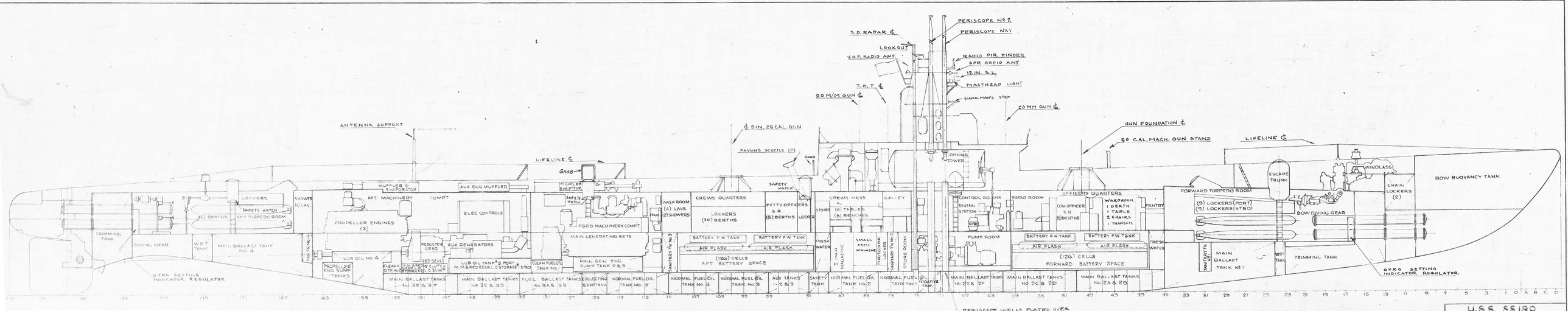
C.&R. NO. 249390



U.S.S. SS190
PLATFORM DECK
SCALE: 1/8" = 1 FOOT SHEET No. 5
C. & R. NO. 249390



U.S.S. SS190
HOLD
SCALE: 1/8" = 1 FOOT
SHEET NO. 6
C.&R. NO. 249390



U.S.S. SS190
INBOARD PROFILE
SCALE 3/16" = 1 FOOT SHEET NO. 7
C.&R. NO. 249390