RESTRICTED

PLATE NO. 1

U.S. SUBMARINE

SSK 242

BOOKLET OF GENERAL PLANS

CORRECTED TO SUIT SHIP		
PLACE	DATE	SUPERVISOR

NUMBER AND ORDER OF PLANS	
1	TITLE PAGE
2	TANK CAPACITIES AND GENERAL DATA
3	MAIN DECK AND BRIDGE
4	OUTBOARD PROFILE
5	PLATFORM DECK
6	HOLD
7	INBOARD PROFILE
8	SECTIONS

PREPARED BY

SAN FRANCISCO NAVAL SHIPYARD

SCALE 1/2" = 1'-0" & 1/4" = 1'-0"

DRAWN BY C. GAGOS & O. TRAVERSO

CHECKED BY

SUPERVISOR E.S. Dittmann

L. Ventrath
BRANCH SUPERVISOR

DATE 15 July 1953

HEAD ENGINEER

APPROVED

By Direction of the commander

BUSHIPS. PLAN NO. SSK242-S0103-1035096

PRINCIPAL DIMENSIONS

LENGTH OVERALL	306'-2⅝"
LENGTH BETWEEN PERPENDICULARS	306'-10⅞"
PROJECTION FORWARD OF F. P.	0'-0"
LENGTH OF STRAIGHT KEEL	154'-10"
BREADTH MOULDED	27'-2⅝"
BREADTH EXTREME	27'-3¾"
DRAFT SURFACE CONDITION TO UNDERSIDE OF KEEL PLATE	15'-3"
RATIO — LENGTH TO BEAM	11.29
SHAFTS DIVERGE AT ANGLE WITH ℄ OF SHIP	1°-32'40"
SHAFTS ℄ AT FR. NO. 128	5'-0"
SHAFTS RAKE OUTBOARD AND AFT. 0.0270" PER. IN. FROM ℄	
SHAFTS RAKE FROM BASE LINE AND FORWARD 0.0226" PER. IN FROM B.L.	
SHAFTS ℄ FROM BASE LINE AT FR. NO. 128	6'-0"
RUDDER AXIS FORWARD OF A.P.	10'-6"
NUMBER OF FRAMES	136
SCREWS CENTER FORWARD OF A.P.	18'-4⅞"

FRAME SPACING		
F.P. TO FR. NO. 35 — FR. NO. 35 TO FR. NO. 62	—	24" / 30"
FR. NO. 62 TO FR. NO. 69 — FR. NO. 69 TO FR. NO. 105	—	24" / 30"
FR. NO 105 TO A.P.	—	24"

HEIGHTS

LOWEST POINT OF KEEL TO TOP OF STRENGTH HULL AMIDSHIP ON ℄ OF SHIP	10'-10"
LOWEST POINT OF KEEL TOP CONNING TOWER PLATFORM DECK	24'-8½"
LOWEST POINT OF KEEL TO TOP OF (FWD) RADIDGE DECKS (AMIDSHIP)	27'-4" / 28'-1"
LOWEST POINT OF KEEL TO TOP OF FAIRWATER	47'-6"
LOWEST POINT OF KEEL TO ℄ OF MASTHEAD LIGHT	46'-0"
LOWEST POINT OF KEEL TO SIDE LIGHT	31'-6¾"
LOWEST POINT OF KEEL TO ℄ OF ANCHOR LIGHT (FWD)	32'-0¾"
LOWEST POINT OF KEEL TO ℄ OF OF ANCHOR LIGHT (AFT)	25'-1½"
LOWEST POINT OF KEEL TO NO. 1 TOP PERISCOPE EXTENDED NO. 2	62'-8⅝" / 66'-5⅝"
LOWEST POINT OF KEEL TO SNORKEL EXHAUST (RAISED)	49'-11¼"
LOWEST POINT OF KEEL TO SNORKEL INTAKE (RAISED)	61'-8⅝"
LOWEST POINT OF KEEL TO TOP OF RAD-5 RADAR ANTENNA (RAISED)	58'-8¼"
LOWEST POINT OF KEEL TO TOP (STOWED) OF WHIP ANTENNA (RAISED)	60'-9⅞" / 90'-9⅞"
LOWEST POINT OF KEEL TO TOP OF VLF LOOP ANTENNA (RAISED)	51'-4½"
LOWEST POINT OF KEEL TO (STOWED) TOP VHF & IFF ANTENNA (RAISED)	62'-9⅞" / 80'-9⅞"
LOWEST POINT OF KEEL TO TOP OF ECM DIRECTIONAL ANT. (RAISED)	64'-9⅞"

CAPACITY OF TANKS

SANITARY TANKS

TANK	GALS.	T. S.W.
NO. 1	262	1.00
NO. 2	949	3.62
NO. 3	209	1.98
TOTAL	1420	5.90

NORMAL FUEL OIL TANKS

TANK	GALS.	T.S.W.	TONS OIL
N.F.O. NO. 1	11230	42.91	34.89
N.F.O. NO. 2	12980	49.58	40.31
N.F.O. NO. 6	9576	36.58	29.74
N.F.O. NO. 7	14680	56	45.62
COLLECTING	2955	11.28	9.18
EXPANSION	2955	11.28	9.18
E.F.O. NO. 1	342		1.06
E.F.O. NO. 2	647		2.01
TOTAL	55381	207.76	171.99

MAIN BALLAST TANKS

TANK		GALS	T.S.W.
M.B.T.	NO. 1	12478	47.66
M.B.T.	NO. 2 & 2 P & S	16098	61.48
M.B.T.	NO. 2 C & 2 D	17071	65.20
F.B.T.	NO. 3 A & 3 P & S	19590	74.06
F.B.T.	NO. 4 A & 4 P & S	24611	94.00
F.B.T.	NO. 5 A & 5 P & S	19757	75.46
F.B.T.	NO. 6 A & 6 P & S	17704	67.59
F.B.T.	NO. 6 C & 6 D	18053	68.97
M.B.T.	NO. 7	11289	43.11
SAFETY TANK		6076	23.20
TOTAL		161867	618.24

CAPACITY OF TANKS

VARIABLE TANKS

TANK	GALS.	T.S.W.
AUXILIARY NO. 1	4451	17.00
AUXILIARY NO. 2	5820	22.23
AUXILIARY NO. 3	5820	22.23
NEGATIVE	1982	7.57
FWD. TRIMMING	6698	25.58
FWD. W.B.T.	1317	5.03
AFTER TRIMMING	5312	20.29
AFTER W.B.T.	1338	5.11
TOTAL	32690	124.88

LUBE OIL SUMPS 75 %

TANK	GALS.	T.S.W.
M.E. SUMP NO. 1	392	1.31
M.E. SUMP NO. 3	353	1.21
M.E. SUMP NO. 4	353	1.21
M.M. SUMP NO. 1	161	0.53
TOTAL	1238	4.27

LUBE OIL STORAGE 95 %

TANK	GALS.	T.S.W.
N.L.O. NO. 1	485	1.67
N.L.O. NO. 2	2040	7.01
RESERVE L.O. NO. 1	484	1.66
RESERVE L.O. NO. 2	647	2.22
TOTAL	3656	12.56

FRESH WATER TANKS

TANK	GALS.	T.F.W.
NO. 1 STARBOARD	987	3.67
NO. 2 PORT	987	3.67
NO. 3 STARBOARD	1064	3.96
NO. 4 PORT	1066	3.96
NO. 5 ℄	943	3.51
TOTAL	5046	18.77
BOW BUOYANCY TANK	12223	46.69

CAPACITY OF TANKS

BATTERY FRESH WATER

TANK	GALS.	T.F.W.
FWD.	604	2.25
AFT.	604	2.25
TOTAL	1208	4.50

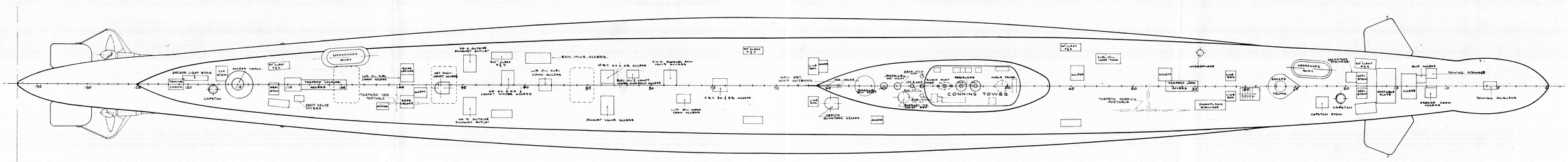
RATED CAPACITIES & WATER SEAL

FUEL BALLAST TANKS	RATED CAPACITY		WATER BAL	
	GALS.	T. O.	GALS.	T.S.W.
NO. 3 A & 3 P & S F. B. T.	18858	58.57	292	1.12
NO. 5 A & 5 P & S F. B. T.	19217	59.68	284	1.09
NO. 4 A & 4 P & S F. B. T.	23975	74.46	367	1.40
TOTAL	62050	192.71	943	3.61

GENERAL DIMENSIONS & DATA

BUSHIPS. PLAN NO. SSK242-S0103-1035096

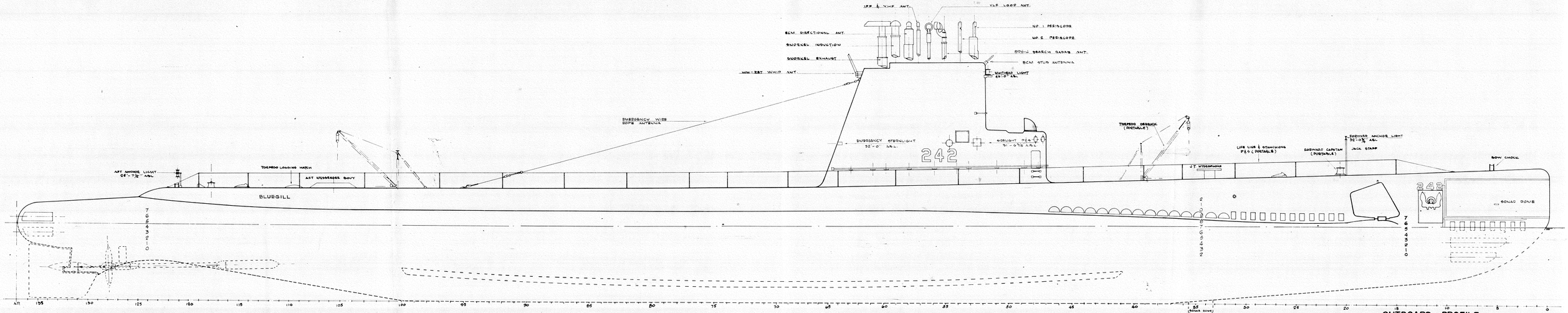
PLATE NO. 3



MAIN DECK & BRIDGE DECK

SCALE: 1/8" = 1'-0"

BUSHIPS PLAN NO. SSK242-S0103-1035096

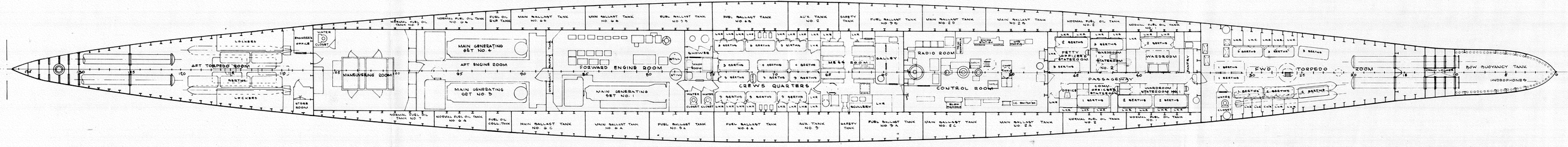


OUTBOARD PROFILE

SCALE: 1/8" = 1'-0"

BUSHIPS. PLAN NO. SSK242-S0103-1035096

PLATE NO. 5

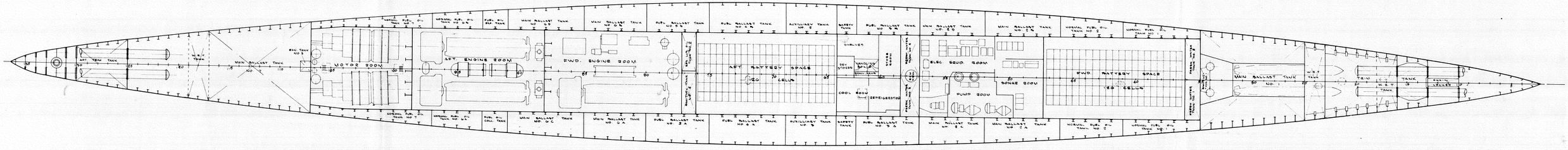


PLATFORM DECK

SCALE 1/8" = 1'-0"

BUSHIPS PLAN NO. SSK242-S0103-1035096

PLATE NO. 6

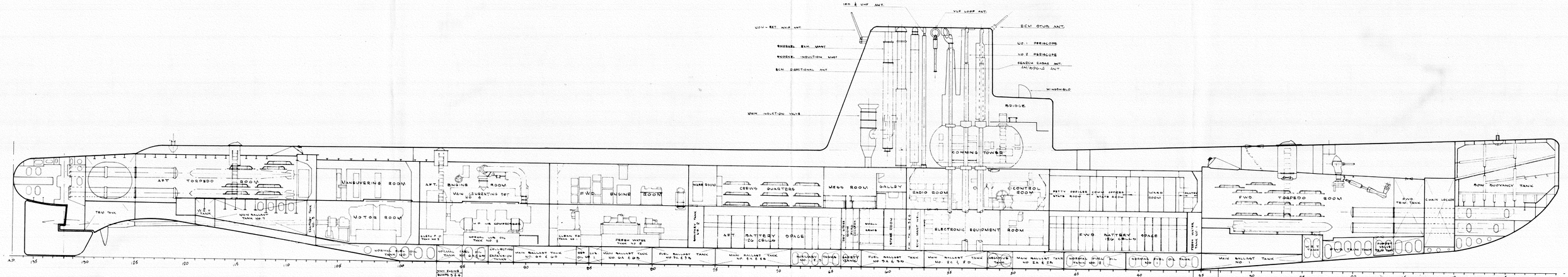


HOLD

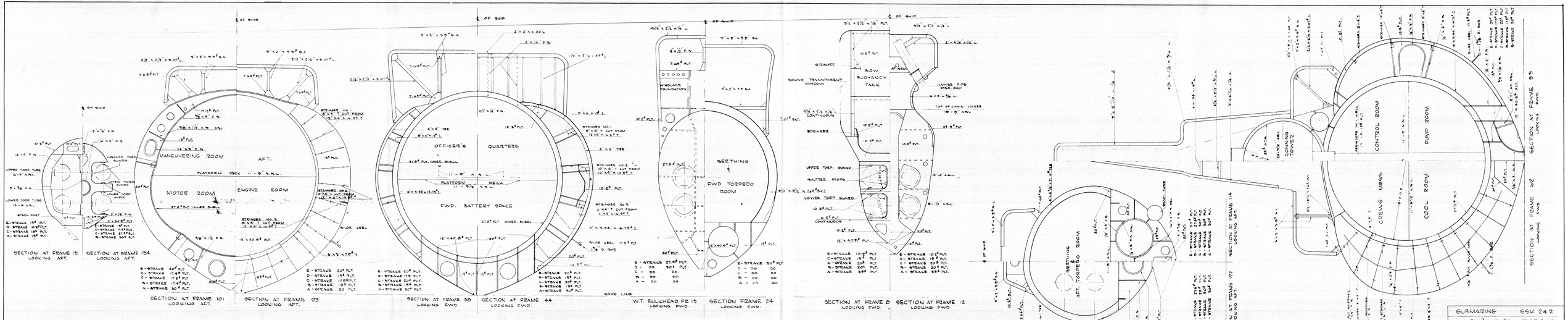
SCALE 1/8" = 1'-0"

BUSHIPS PLAN NO. SSK242-S0103-1035096

PLATE NO. 7



INBOARD PROFILE
SCALE: 1/8" = 1'-0"
BUSHIPS PLAN NO. SSK242-S0103-1035096



SUBMARINE	SSK 242
MIDSHIP SECTION TYPE	
SCALE: 1/4" = 1'-0"	SHEET No. 8
SUBMITS PLAN NO. SSK242-50103-1055006	