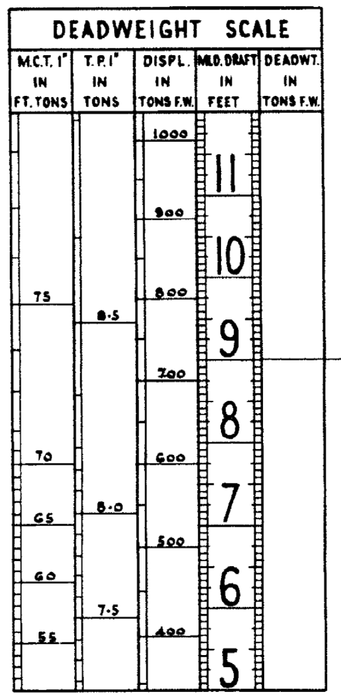


KEEL THICKNESSES :

STERN – 5½ AFT FR. 47 = 15/32"
5½ AFT FR. 47 – 5½ AFT FR. 60 = 7/16"
5½ AFT FR. 60 – STEM = 9/16"

CONDITION	DISPLACEMENT	V.C.G.	L.C.G.
LIGHTSHIP WITH NO LAUNCHES	488·55 L.T. FW	12·04'	3·40' A
LIGHTSHIP WITH 2 LAUNCHES	513·70 L.T. FW	12·32'	3·55' A
LIGHTSHIP WITH 4 LAUNCHES	537·07 L.T. FW	12·60'	5·41' A

FUEL OIL (40·5 C.F./TON)

COMPARTMENT	FRAMES	100% CAPACITY LONG TONS	100% CAPACITY IMP. GALLONS	EFFECT ON DRAFT OF FILLING TANKS AFT	EFFECT ON DRAFT OF FILLING TANKS FWD	V.C.G. ABOVE BASE	L.C.G. ABOUT ⊠
Nº 1 FUEL OIL TANK PORT	60-69	7·48	1906	– 1·37"	+ 4·04"	2·26'	48·86' F
Nº 1 FUEL OIL TANK STBD.	60-69	7·48	1906	– 1·37"	+ 4·04"	2·26'	48·86' F
Nº 2 FUEL OIL TANK PORT	47-60	17·87	4554	– 1·23"	+ 7·05"	2·22'	30·25' F
Nº 2 FUEL OIL TANK STBD.	47-60	17·87	4554	– 1·17"	+ 6·68"	2·24'	30·19' F
Nº 3 FUEL OIL TANK PORT	18-26	10·32	2629	+ 2·97"	– 0·50"	2·25'	26·99' A
Nº 3 FUEL OIL TANK STBD.	18-26	10·32	2629	+ 2·97"	– 0·50"	2·25'	26·99' A
M.E. FUEL OIL DAY TANK	18½-21	0·98	250	+ 0·32"	– 0·05"	17·10'	31·55' A
EMERGY. GENS. FUEL OIL TANK	42-44	0·40	103	+ 0·01"	+ 0·09"	30·30'	10·90' F
TOTAL FUEL OIL		71·84	18,307				

LUB OIL (42·5 C.F./TON)

COMPARTMENT	FRAMES	100% CAPACITY LONG TONS	100% CAPACITY IMP. GALLONS	EFFECT ON DRAFT OF FILLING TANKS AFT	EFFECT ON DRAFT OF FILLING TANKS FWD.	V.C.G. ABOVE BASE	L.C.G. ABOUT ⊠
LUB OIL STORAGE TANK PORT	18-19	0·58	153	+ 0·19"	– 0·06"	13·70'	35·83' A
LUB OIL STORAGE TANK STBD.	18-19	0·58	153	+ 0·19"	– 0·06"	13·70'	35·83' A
TOTAL LUB OIL		1·16	306				

FRESH WATER (36 C.F./TON)

COMPARTMENT	FRAMES	100% CAPACITY LONG TONS	100% CAPACITY IMP. GALLONS	EFFECT ON DRAFT OF FILLING TANKS AFT	EFFECT ON DRAFT OF FILLING TANKS FWD.	V.C.G. ABOVE BASE	L.C.G. ABOUT ⊠
OUTBOARD F.W. TANK PORT	34-45	15·03	3370	+ 1·36"	+ 2·91"	2·21'	4·49' F
OUTBOARD F.W. TANK STBD.	34-45	15·03	3370	+ 1·36"	+ 2·91"	2·21'	4·49' F
INBOARD F.W. TANK PORT	34-44	14·22	3190	+ 1·35"	+ 2·68"	1·96'	3·73' F
INBOARD F.W. TANK STBD.	34-45	15·67	3514	+ 1·41"	+ 3·07"	1·96'	4·66' F
TOTAL FRESH WATER		59·95	13444				

WATER BALLAST (36 C.F./TON)

COMPARTMENT	FRAMES	100% CAPACITY LONG TONS	100% CAPACITY IMP. GALLONS	EFFECT ON DRAFT OF FILLING TANKS AFT	EFFECT ON DRAFT OF FILLING TANKS FWD.	V.C.G. ABOVE BASE	L.C.G. ABOUT ⊠
WATER BALLAST TANK PORT	29-32	4·63	1037	+ 0·88"	+ 0·31"	1·95'	11·83' A
WATER BALLAST TANK STBD.	29-32	4·63	1037	+ 0·88"	+ 0·31"	1·95'	11·83' A
FOREPEAK	69-STEM	11·61	2604	– 3·08"	+ 7·46"	8·48'	62·31' F
TOTAL WATER BALLAST		20·87	4678				

SHIPS SERVICE STORES

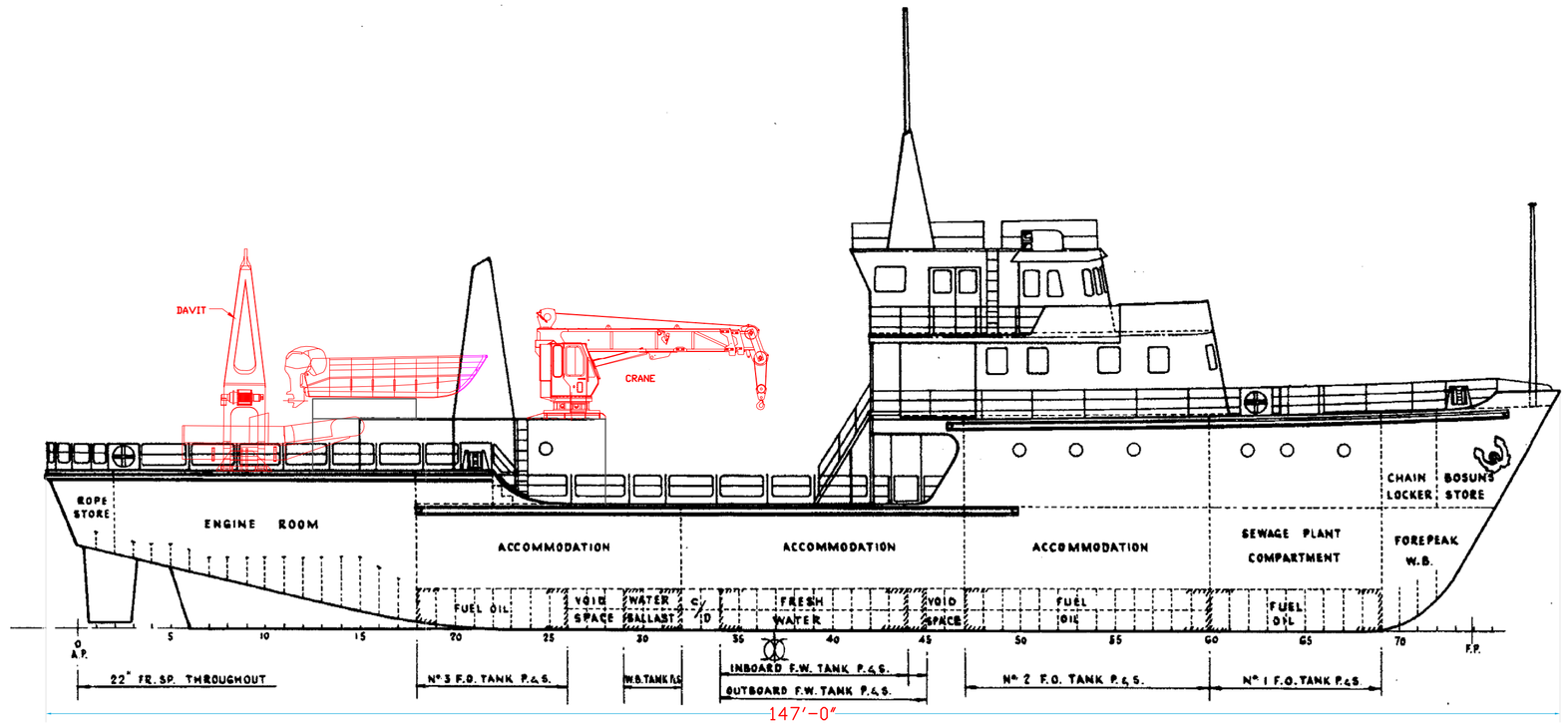
STORE	FRAMES	VOLUME
ROPE STORE	STERN-2	350 c.f.
PAINT & LAMP STORE	51-54	150 c.f.
SURVEY & ELECTRONIC STORE	60-69	2510 c.f.
BOSUN'S STORE	72-STEM	510 c.f.

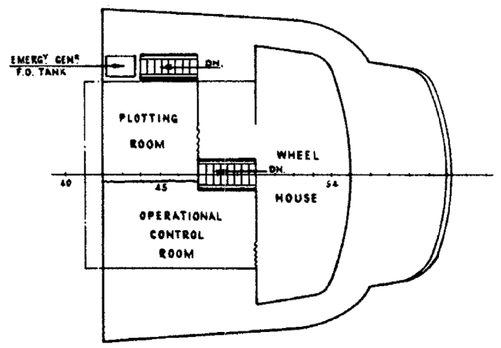
PROVISION STORES

STORE	FRAMES	VOLUME
DRY STORE	41-45½	310 c.f.
READY USE DRY STORE	45-47	290 c.f.
COLD ROOM	41-44	110 c.f.
COOL ROOM	41-44	110 c.f.

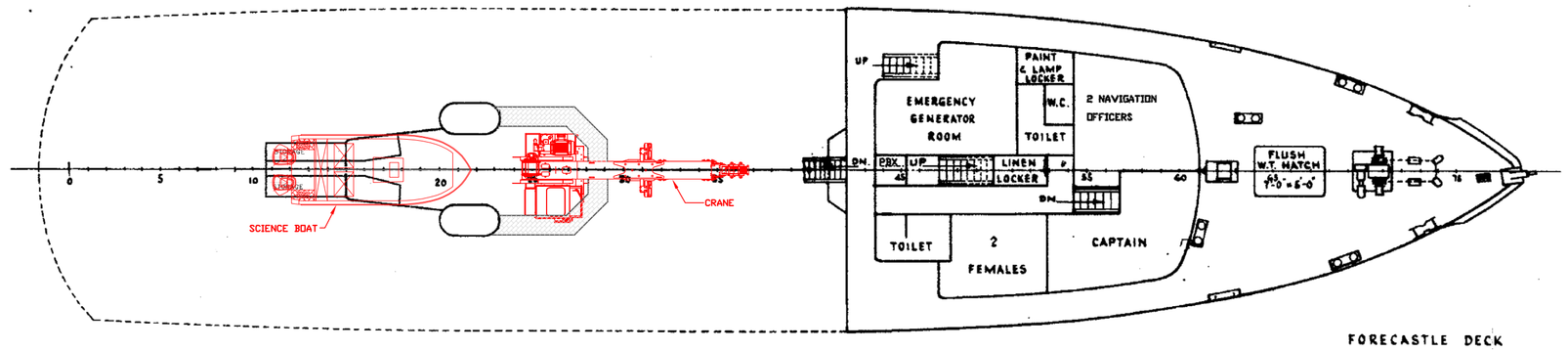
ALL TONS SHOWN ARE LONG TONS OF 2240 POUNDS

THE PARTICULARS SHOWN ON THIS PLAN ARE GIVEN IN GOOD FAITH BUT ARE NOT GUARANTEED.

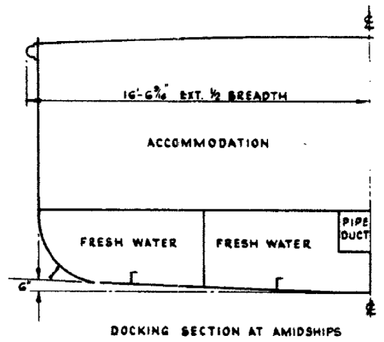




BRIDGE DECK

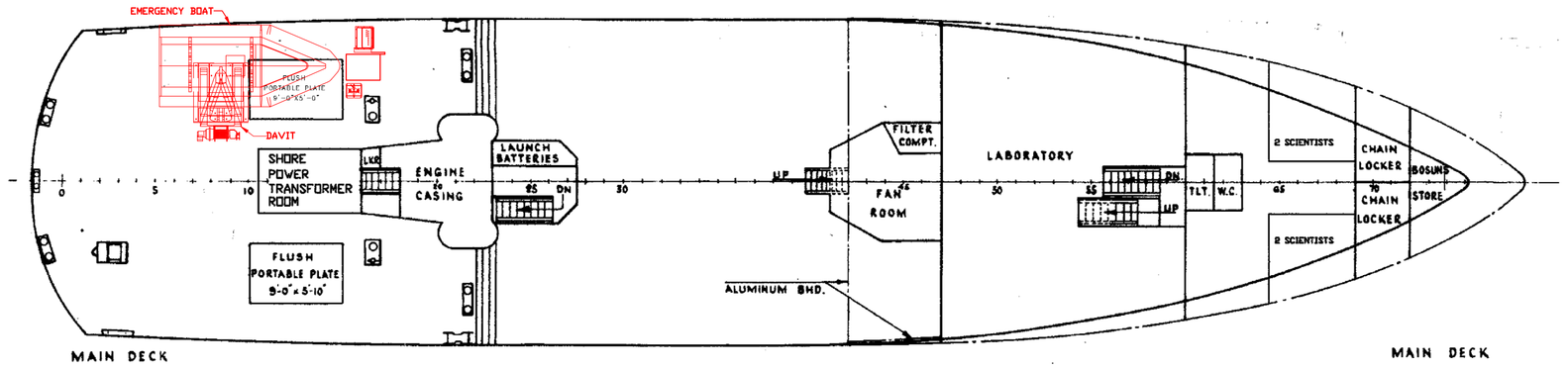


FORECASTLE DECK



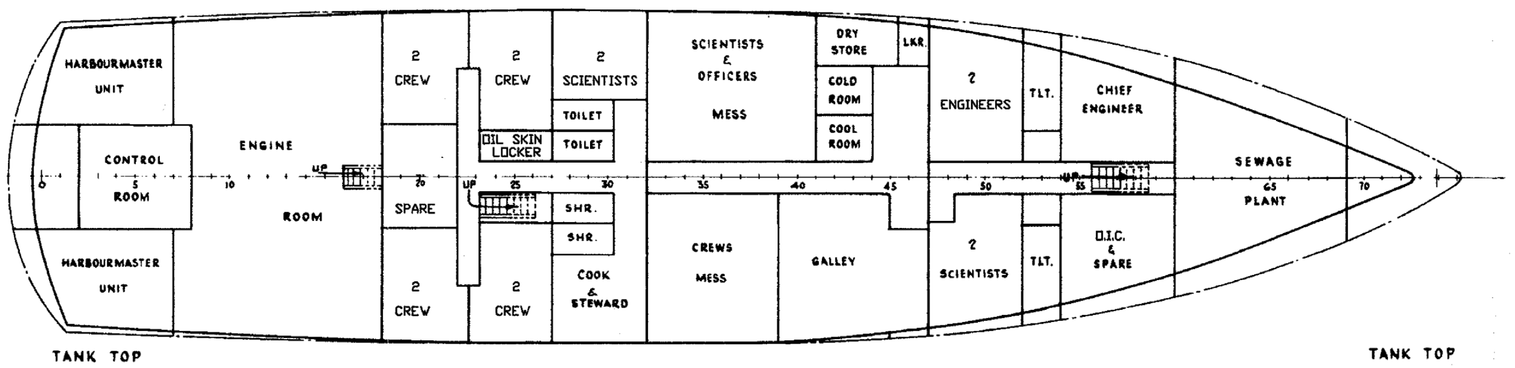
DOCKING SECTION AT AMIDSHIPS

SCALE: 3/16"=1'-0"



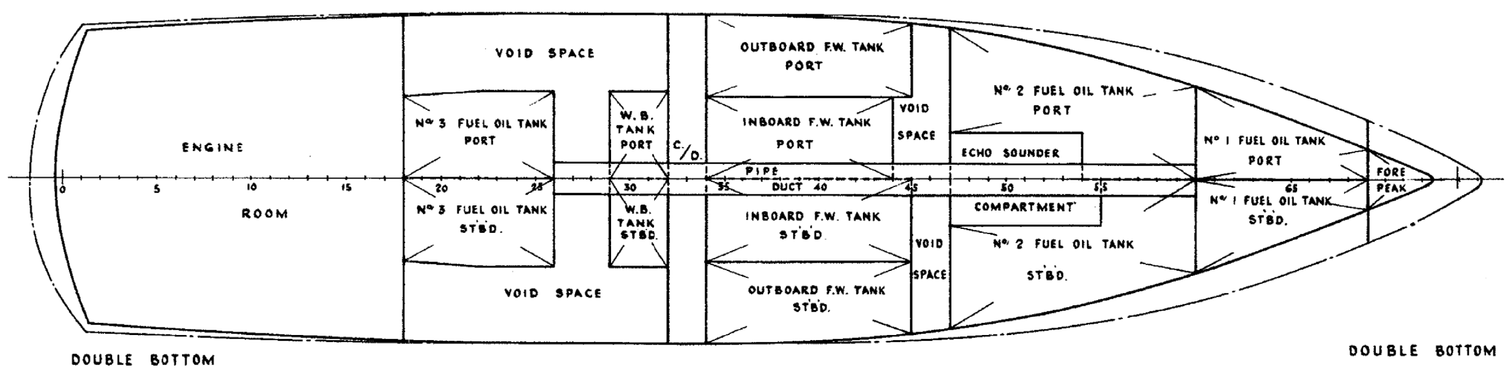
MAIN DECK

MAIN DECK



TANK TOP

TANK TOP



DOUBLE BOTTOM

DOUBLE BOTTOM

PRINCIPAL PARTICULARS :

LENGTH OVERALL	147'-0"
LENGTH BETWEEN PERPENDICULARS	135'-6"
BREADTH MOULDED	32'-0"
DEPTH MOULDED	12'-0"
DRAFT MEAN MOULDED F.W.	8'-0"
GROSS TONNAGE	489
NET TONNAGE	147

CLASS : LLOYDS ✠ 100 A1 ✠ L.M.C. "FOR SERVICE IN THE GREAT LAKES & ST. LAWRENCE RIVER" STRENGTHENED FOR NAVIGATION IN ICE – CLASS I.

PROPULSION MACHINERY :

TWO CATERPILLAR C18 ACERT (EPA TIER2 COMMERCIAL), RATED 479 BHP @ 1800 RPM KEEL COOLED
TWO THRUSTMASTER HYDRAULIC AZIMUTH DRIVES MODEL TH400N WITH LLOYDS ICE 1A CLASS CERTIFICATION EACH RATED AT 350 HP
TWO 150 KW, 1800 RPM, 460 / 3 / 60 CATERPILLAR C6.6 ACERT GENERATING SETS (EPA TIER2 COMMERCIAL) KEEL COOLED
ONE 150 KW, 1800 RPM, 460 / 3 / 60 CATERPILLAR C6.6 ACERT GENERATING SET (EPA TIER2 COMMERCIAL) RADIATOR COOLED

DECK EQUIPMENT :

ANCHOR WINDLASS : SWANN SERIES Nº318, ELECTRICALLY DRIVEN, SUITABLE FOR 15/16" DIA. SPECIAL STEEL STUD LINK CHAIN CABLE.
TWO MOORING CAPSTANS: SWANN SERIES MC 568, HYDRAULIC, EACH CAPABLE OF A LINE PULL OF 2400 LBS. AT 60 F.P.M.
TWO MOORING WINCHES : SWANN SERIES M.W. 488, HYDRAULIC, EACH CAPABLE OF A LINE PULL OF 2400 LBS AT 120 F.P.M.
AFT CRANE : MIAB MODEL 110, ARTICULATED BOOM HYDRAULIC CRANE CAPABLE OF LIFTING 1 LONG TON AT 17'-0" RADIUS AT 25 F.P.M.
MAIN CRANE: ARVA PE-48M HYDRAULIC MARINE CRANE. CAPACITY 10,000 POUNDS AT 30 FT. RADIUS
SINGLE ARM DAVIT: ARVA AR5000D PIVOT ARM DAVIT MAXIMUM CAPACITY 5,500 POUNDS

CAPACITY PLAN

GREAT LAKES SURVEY VESSEL

C.S.S. "LIMNOS"

SCALE: 3/32"=1'-0"

HEDDLE MARINE SERVICE INC. JUNE/2010
(ISO 9001 : 2008 - CERTIFIED)

PORT WELLER DRY DOCKS LIMITED, ST. CATHARINES

HULL Nº 47 DRWG. Nº 47-H-504