

U. S. COAST GUARD
11TH COAST GUARD DISTRICT

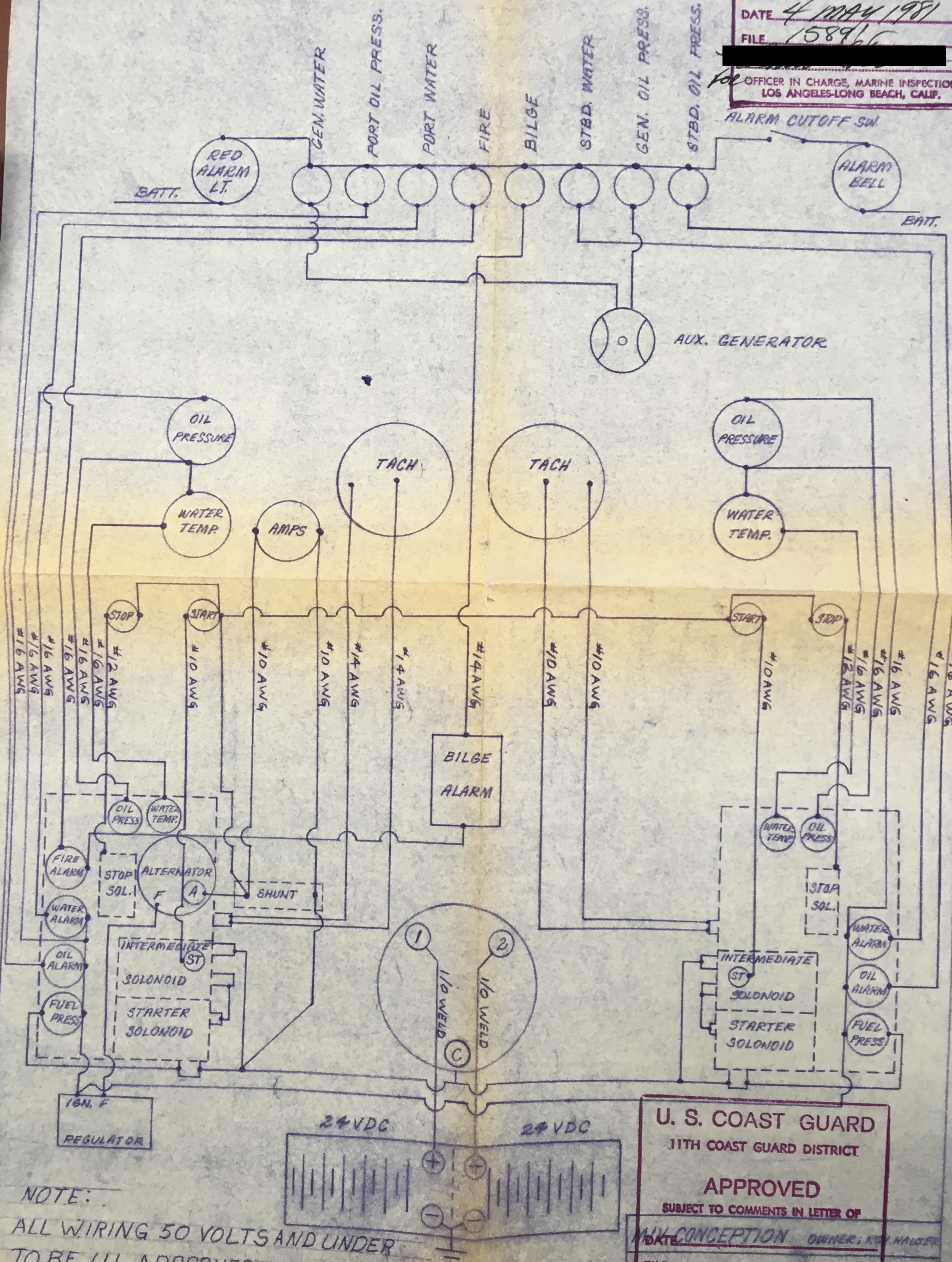
APPROVED

SUBJECT TO COMMENTS IN LETTER OF

DATE 4 MAY 1981

FILE 15896

OFFICER IN CHARGE, MARINE INSPECTION
LOS ANGELES-LONG BEACH, CALIF.



NOTE:

ALL WIRING 50 VOLTS AND UNDER
TO BE U.L. APPROVED STRANDED COPPER. ALL
INSULATION TO BE THHN OR BETTER

U. S. COAST GUARD
11TH COAST GUARD DISTRICT

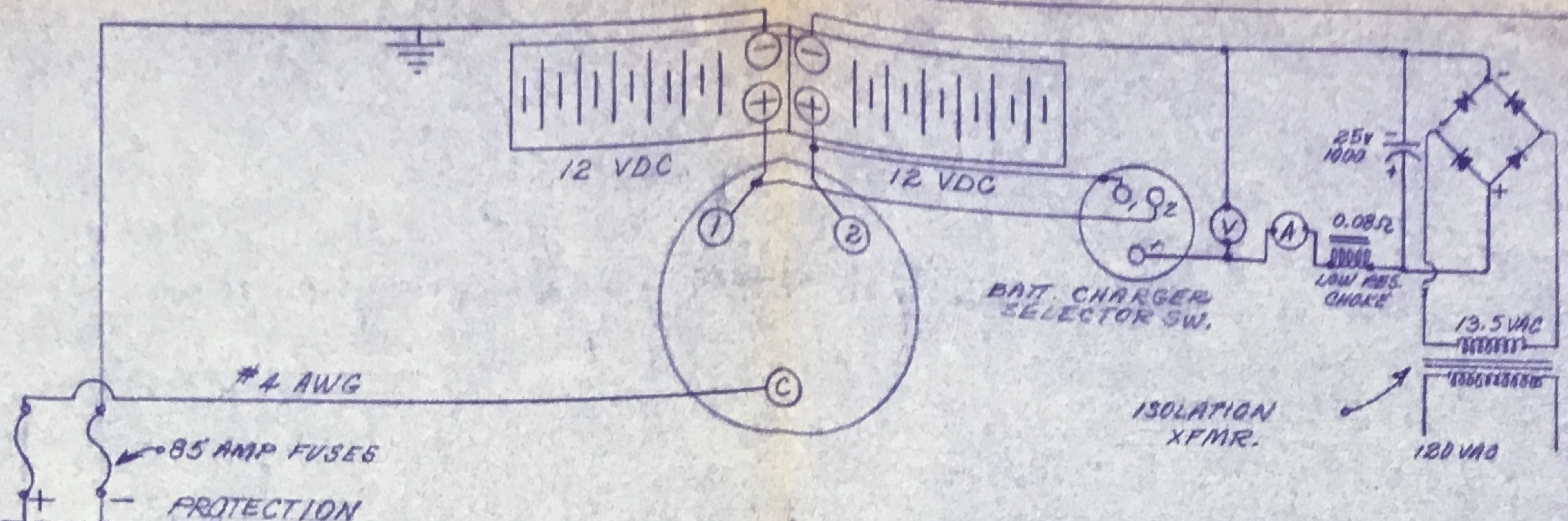
APPROVED

SUBJECT TO COMMENTS IN LETTER OF

DATE CONCEPTION OWNER: ROY HAUGER

FILE SUNSET MARINE ELECTRIC

OFFICER IN CHARGE, MARINE INSPECTION
LOS ANGELES-LONG BEACH, CALIF.



PROTECTION			
15 AMP	RUNNING LIGHTS	1 AMP	#14 AWG
15 AMP	FATHOMETER #1		#14 AWG
15 AMP	FATHOMETER #2		#14 AWG
15 AMP	V.H.F. RADIO	5 AMPS	#14 AWG
15 AMP	ANCHOR LIGHT	.25 AMP	#14 AWG
15 AMP	AM/FM TAPE PLAYER	1 AMP	#14 AWG
15 AMP	WINDSHIELD WIPERS	10 AMPS	#14 AWG
20AMP	WHEELHOUSE LIGHTS	15 AMPS	#12 AWG
15 AMP	BOW COMPARTMENT LT.	4 AMPS	#14 AWG
15 AMP	DASH LIGHTS	5 AMPS	#14 AWG
15 AMP	COMPASS LIGHT	.25 AMP	#14 AWG
15 AMP	S.S.B. RADIO	5 AMPS	#14 AWG
	LORAN		
15 AMP	ALARM SYSTEM	5 AMPS	#14 AWG
15 AMP	CHART LIGHT	.25 AMP	#14 AWG
20AMP	BUNK LIGHTS	20 AMPS	#14 AWG
15AMP	LAZARETTE LIGHTING	2.1 AMPS	#14 AWG
15AMP	ENGINE ROOM LIGHTING	2.1 AMPS	#14 AWG
15AMP	CHAIN LOCKER LIGHT	2.1 AMPS	#10 AWG
15AMP	HEAD/CABIN LIGHTING	4.2 AMPS	#10 AWG
20AMP	RECPT'S UTILITY		#10 AWG

12 VOLT SYSTEM

U. S. COAST GUARD
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 DATE: 4 MAY 1987
 FILE: 158910
 OFFICER IN CHARGE, MARINE INSPECTION
 LOS ANGELES-LONG BEACH, CALIF.

M/V CONCEPTION OWNER: ROY HAUSER
 SUNSET MARINE ELECTRIC
 DRAWN BY: R. M. BERBERICH

U. S. COAST GUARD

11TH COAST GUARD DISTRICT

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DATE 4 MAY 1981

FILE 15896

OFFICER IN CHARGE, MARINE INSPECTION
LOS ANGELES-LONG BEACH, CALIF.

SHORE POWER

50 KW 120/208
(FUTURE)

NEUTRAL

NOTE:
METERS IN FACTORY
UNIT

6 AWG

350 MCM

300 A. BKR.

PROTECTION

NOTE:
ALL WIRE TO THWN OR
BETTER, U.L. APPROVED,
IMPERVIOUS SHEATHED, 70°
CENT., STRANDED COPPER.

50 KW 120/208
V.A.C. 3Ø

60A	AIR COMPRESSOR #1	# 8 AWG
60A	208v 3Ø #1	"
60A	" " #1	"
60A	AIR COMPRESSOR #2	# 8 AWG
60A	208v 3Ø #2	"
60A	" " #2	"
30A	WINCH MOTOR	# 12 AWG
30A	208v 3Ø	"
30A	" "	"
15A	FRESH WATER PUMP	# 14 AWG
15A	208 - 220 3Ø	"
15A	" "	"
30A	AIR CONDITIONER	# 10 AWG
15A	GALLEY REFRIGERATOR #1	# 14 AWG
15A	GALLEY FREEZER #1	# 14 AWG
20A	GALLEY FREEZER #2	# 12 AWG
20A	WATER HEATER	# 12 AWG
15A	GALLEY REFRIGERATOR #2	# 14 AWG
15A	TRASH COMPACTOR	# 14 AWG
15A	GRILL EXHAUST FAN	# 14 AWG
20A	GALLEY RECPTS.	# 12 AWG
15A	CABIN LIGHTING	# 14 AWG
15A	CABIN RECPTS	# 14 AWG
15A	DECK LIGHTS/RECPTS.	# 14 AWG
15A	WHEELHOUSE LIGHTS/RECPTS.	# 14 AWG
15A	BUNK/HEAD RECPTS./FAN	# 14 AWG
15A	BATTERY CHARGER #1	# 14 AWG
50A	WELDING OUTLET	# 6 AWG
50A	" "	# 6 AWG
15A	ENG. RM./STERN LIGHTS	# 14 AWG
15A	ENG. RM./STERN RECPTS.	# 14 AWG
20A	GALLEY GRIDDLE	# 12 AWG
30A	FIRE PUMP #1	# 12 AWG
30A	208v 3Ø #1	# 12 AWG
30A	" #1	# 12 AWG
20A	STERN WINCH MOTOR	# 14 AWG
20A	208 - 230 3Ø	# 14 AWG
20A	" "	# 14 AWG
15A	BATTERY CHARGER #2	# 14 AWG

M/V CONCEPTION OWNER: ROY HAUSER

SUNSET MARINE ELECTRIC

DRAWN BY: R. M. BERBERICH

U.S. COAST GUARD
11TH COAST GUARD DISTRICT

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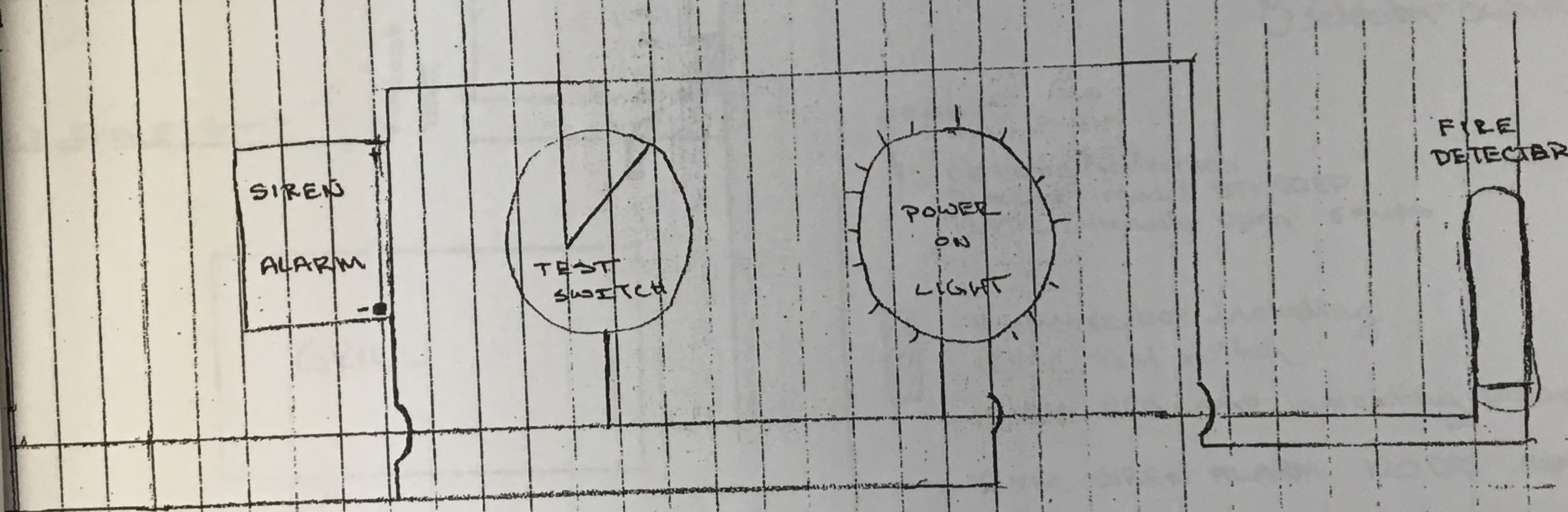
SUBJECT TO COMMENTS IN LETTER OF

DATE February 28, 2001

FILE Conception, D638133

~~XXXXXXXXXXXXXXXXXXXX~~
BY DIRECTION OF THE
OFFICER IN CHARGE, MARINE INSPECTION
LOS ANGELES - LONG BEACH, CA

Exploded View of WIRING



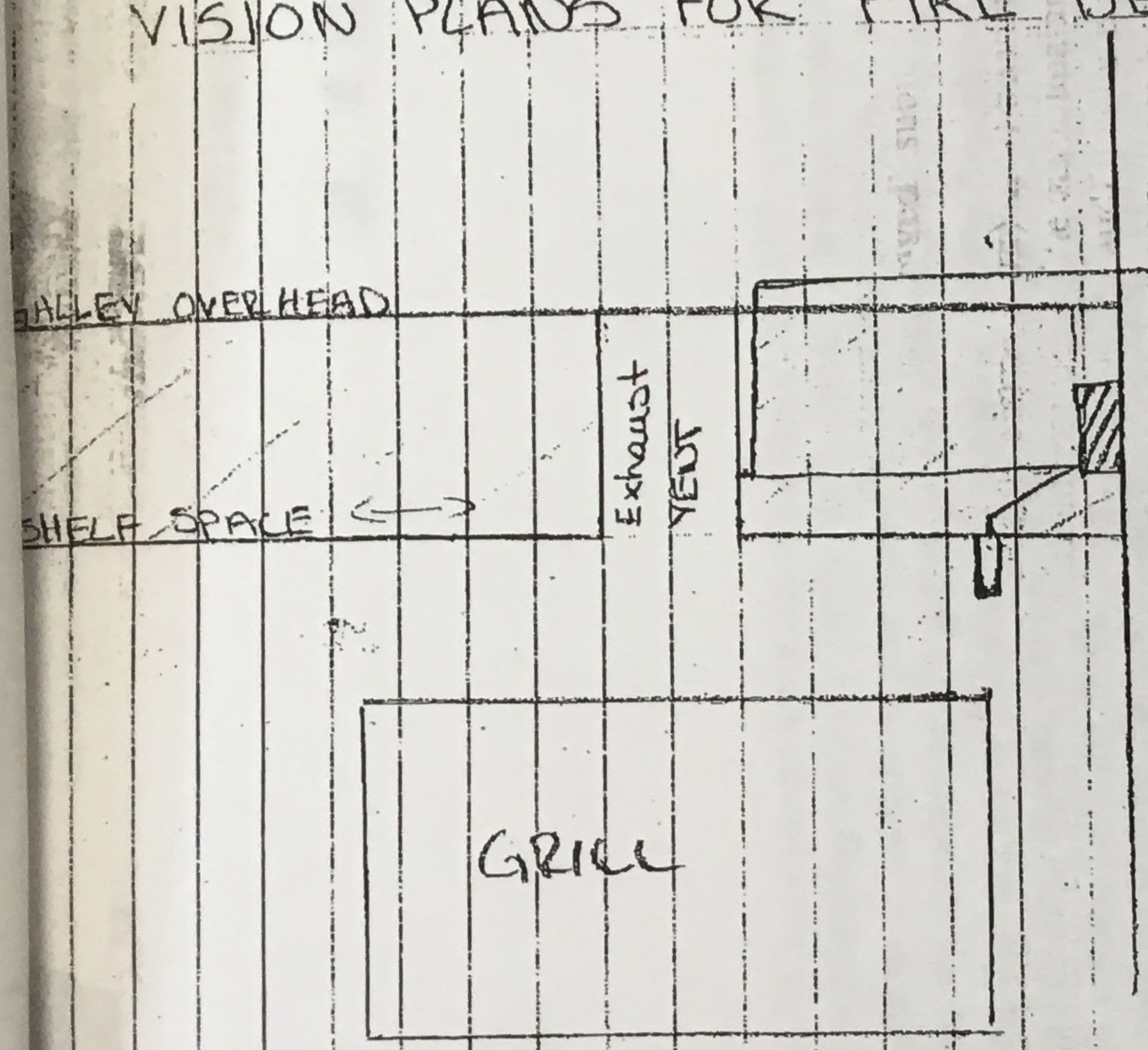
U.S. COAST GUARD
 11TH COAST GUARD DISTRICT
 APPROVED

SUBJECT TO COMMENTS IN LETTER OF

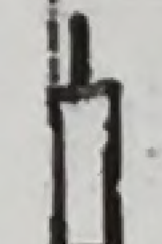
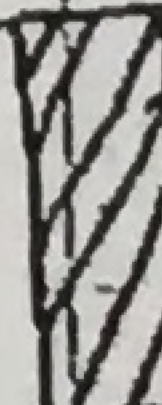
DATE February 28, 2001
 FILE Conception, D638133

BY DIRECTION OF THE
 OFFICER IN CHARGE, MARINE INSPECTION
 LOS ANGELES - LONG BEACH, CA

VISION PLANS FOR FIRE DETECTION IN GALLEY



LEGEND

-  Cerberus Pyrotechnics Detector model DT-190EP 12VDC, Normally Open 5AMPS
-  Enclosure box including:
 - 12VDC Test switch
 - 12VDC RED LAMP indicating power, 5amp
 - 12VDC SIREN ALARM 120DB .5AMP

WIRE RUN APPX. 10ft. total combined amp 1.5-2
 WIRE - marine Grade water/oil resistant 14AWG 2strand

All above components will be mounted flush or externally to enclosure box wiring will be internal.

DECK: (310) 521-3777
FAX: (310) 521-3770
KYRA.M.DYKEMAN@USCG.MIL

173.7

Need MAT'L LIST

motors, fixtures, wiring devices

M/V CONCEPTION - ^{Power + Lighting} ELECTRICAL PLANS

- ✓ 1. NO Ground indicated
 - ✓ 2. NEUTRAL TO remain closed
 - ✓ 3. NO Ammeter shown ON NEUTRAL for ^{both Gen and} shore tie-in
 - ✗ 4. Need Gen NAMEplate DATA
 - 5. ~~NO A~~ NO Amperages given on fuses on main buss lines
 - 6. NO Load RATINGS given for motors
 - 7. NO ISOLATION TRANSFORMER ^{and Ammeter} indicated for battery charger (183.05-20(f))
 - 8. ~~NO ^{separate} VHF RADIO circuit TO main distrib panel~~ (183.10-20(m))
 - 9. ~~NO fuses indicated on battery circuits~~ (183.05-15(c))
- NO fuses BATT. CON.

CONCEPTION PLANS

1. Marine Sanitation App 16 Dec 80
2. Bilge + Fire Main App 3 Dec 80
3. Fuel TANKS App 23 Oct 80
4. Inboard Profile & Midship Section App 16 May 80
5. Lines & Hull Penetrations App 16 May 80
6. Outboard Profile & Deck Arrangement App 16 May 80
7. Curves of Area and Floodable Length App 16 May 80

Need:

1. Dive System
2. Machinery Installation
3. Electrical Installation (REVISED)

WHO IS DOING WIRING ON BOAT?

TA-2

TA-3

4

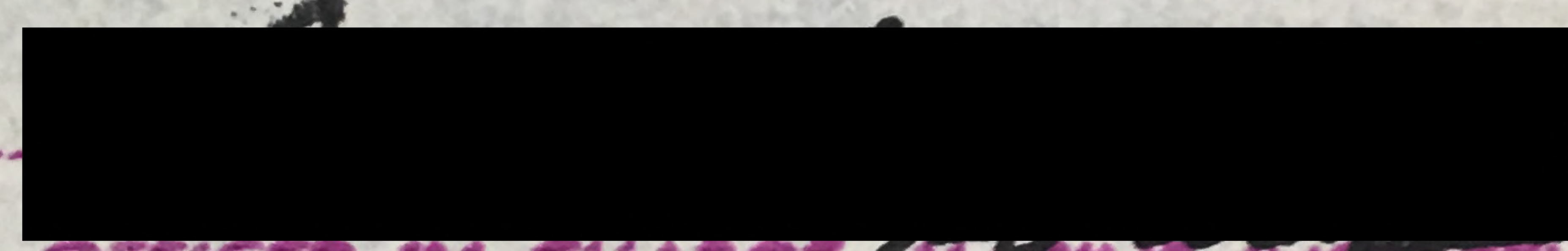
U. S. COAST GUARD
11TH COAST GUARD DISTRICT

APPROVED
~~EXAMINED~~

SUBJECT TO COMMENTS IN LETTER OF

DATE MAY 16 1980

FILE _____

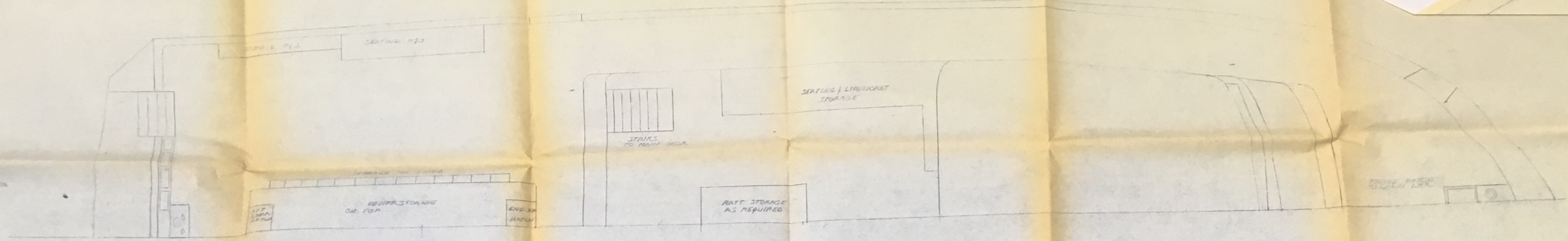


OFFICER IN CHARGE MARINE INSPECTION
LA - 13, WILMINGTON, CALIF.

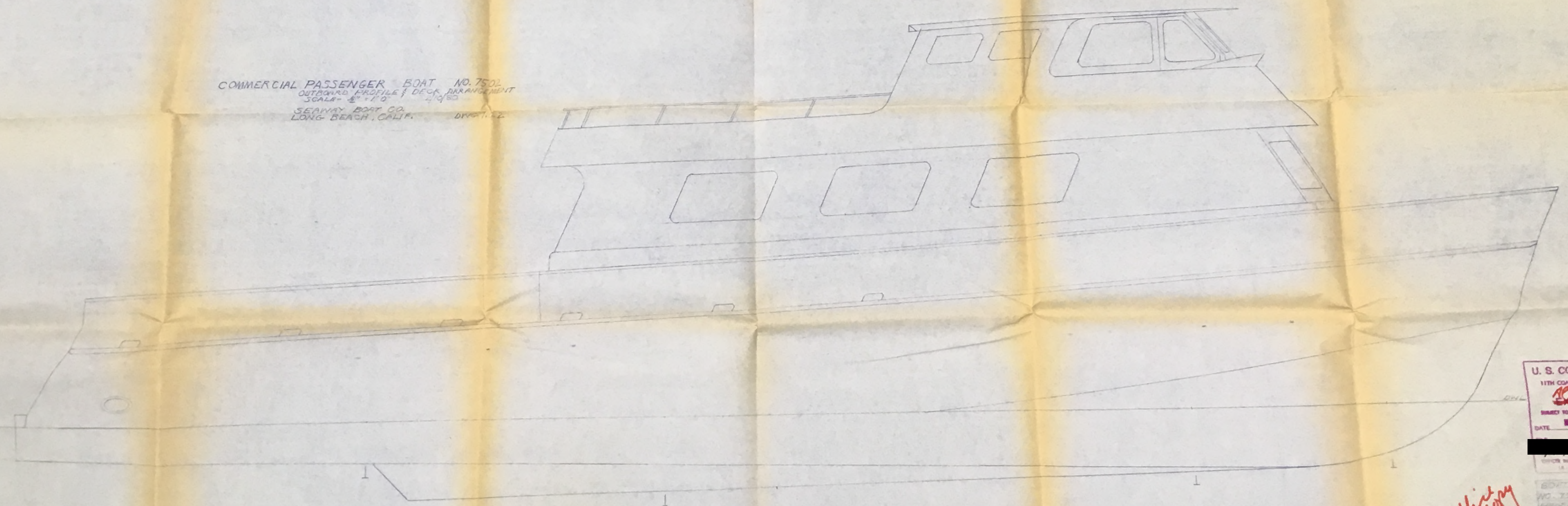
OK 5/15/80 *WMA*

WMA

80 FT. PASSENGER BOAT	
CURVES OF AREA	
FLOODABLE LENGTH	
SCALE $\frac{1}{8}'' = 1'$	3/10/80
SEAWAY BOAT CO. LONG BEACH, CA.	DWG. 4



COMMERCIAL PASSENGER BOAT NO. 7501
 OUTBOARD PROFILE & DECK ARRANGEMENT
 SCALE: 3/4" = 1'-0"
 SEAWAY BOAT CO.
 LONG BEACH, CALIF. DWG. 1122



U. S. COAST GUARD
 11TH COAST GUARD DISTRICT
APPROVED
EXAMINED
 SUBJECT TO COMMENTS IN LETTER OF
 DATE: MAY 16 1980
 OFFICE IN CHARGE / MARINE INSPECTION
 U. S. COAST GUARD

Official Copy

DWL

U. S. COAST GUARD

11TH COAST GUARD DISTRICT

APPROVED
~~EXAMINED~~

SUBJECT TO COMMENTS IN LETTER OF

MAY 16 1980

DATE

FILE

OFFICER IN CHARGE, MARINE INSPECTION
1A-1B, WILMINGTON, CALIF.

M

80 FT. PASSENGER BOAT	
NO. 7502 - OUTBOARD	
PROFILE & DECK ARRANGE-	
MENT SCALE 1" = 3/4" 80	
SEAWAY BOAT CO.	DWG. 2
LONG BEACH, CAL.	NO. C

F

April 30, 1981

OCMI
U.S. Coast Guard
Los Angeles/Long Beach, Calif.

ATTN: MR. Bruce Davis

- Refer. Name plate information for "Diveboat Conception".
(electrical)
All electrical motors are "U.L." approved.

Dear Mr. Davis,

Listed below is the electrical nameplate data required in accordance with U.S. Coast Guard Rules and Regulations for Small Passenger Vessels (Under 100 Gross Tons), Subchapter T Sec.183.10-5.

GENERATOR:

Manufacturer, KATO ENGINEERING
50 KW 62 KVA 1200 RPM
208-240 Volts 173-150 Amps. at rated load.
60 Hz. 3 \emptyset . Rating Cont. @ 40'C. Type #18948
Insul. Class F . PF .8 . WYE Wound.
Exc. Field 50 Volts. 1.6 Amps. 12 Wire. Frame Unknown.

Fresh Water Pump:

Manufacturer, Marathon Electric
208-220 V. F.L.Amps 8.6 S.F.Amps 9.8
3 \emptyset 60 Hz..3 HP. 3450 RPM.
Duty Cont. @ 40'C. Amb. Service Factor 1.15
Type TS FR 56-11 Insul. Class B Code J
S.N. KH56T34D795A

Fire Pump:

Manufacturer, U.S. Electric Motors
230V. 13.4 Amps. 3470 RPM.
3 \emptyset 60 Hz. 5 HP. Type A-1
Frame 182JP Design B Code J
Service Factor 1.15 Insul. Class B
Rating Cont. @40'C Amb. Max.

Bow Winch:

Manufacturer, Sterling Mod. #BY154FAC2A1
230V. 4.6 Amps. Type 1K.
3 \emptyset 60 Hz. 1.5 HP. 1730 RPM.
Code L Frame 145TC Service Factor 1.0
Insul. Class A Nema Design B
Rating 40'C Amb. Cont.

Stern Winch:

Manufacturer, Baldor Spec. #34-3290-3254
208-230V. 4.0-3.8 Amps.
3 \emptyset . 60 Hz. 1725 RPM. 1 HP.
Frame 56C. Service Factor 1.25. Ser. W181.
Class B Code D Rating Cont. @ 40'C. Amb.
Full Load EFF 75%. P.F. 64%.

Steering Pump:

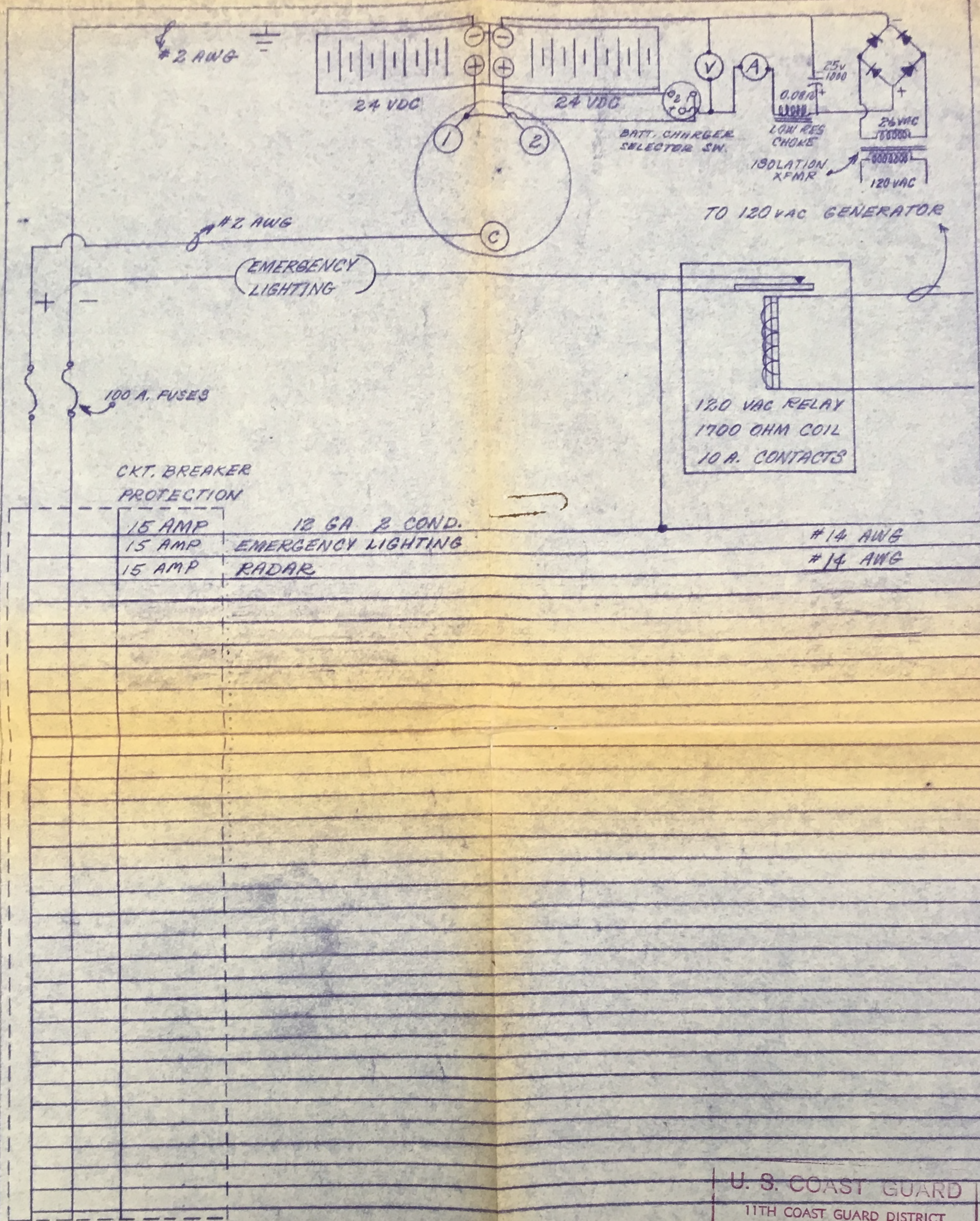
Manufacturer, Baldor Spec. #34-3104-883
208-230V. 3.2-3.0 Amps.
3 \emptyset . 60 Hz. 3/4 HP. 1725 RPM.
Frame 56. Code K. Service Factor 1.25.
Insul. Class B. Rating Cont. @ 40'C.
P.F. 60%. Full Load EFF 74%. Ser. W1180.

Salt Water Pump:

Manufacturer, Franklin Electric. Mod.# 1103152400
220V. 5.3 Amps. 6.8 S.L.Amps.
1 \emptyset . 60 Hz. 3/4 HP. 3450 RPM.
Kva " K". Type U. Code G.
Service Factor 1.5. Rating Cont.D.P. @40' C. Amb. Max.
Insul. Class B.

Galley Exhaust Fan:

Manufacturer, Westinghouse. Mod. #309P550
115V. 4.9Amps. 1/6 HP. 1 \emptyset .
RPM 1140. Type SH. Code R. Frame D48.
Service Factor 1.35 Rating Cont. @ 40'C. Amb. Max.



NOTE:
 ALL WIRING 50 VOLTS AND UNDER TO BE
 UL APPROVED STRANDED COPPER. ALL
 INSULATION TO BE THWN OR BETTER.

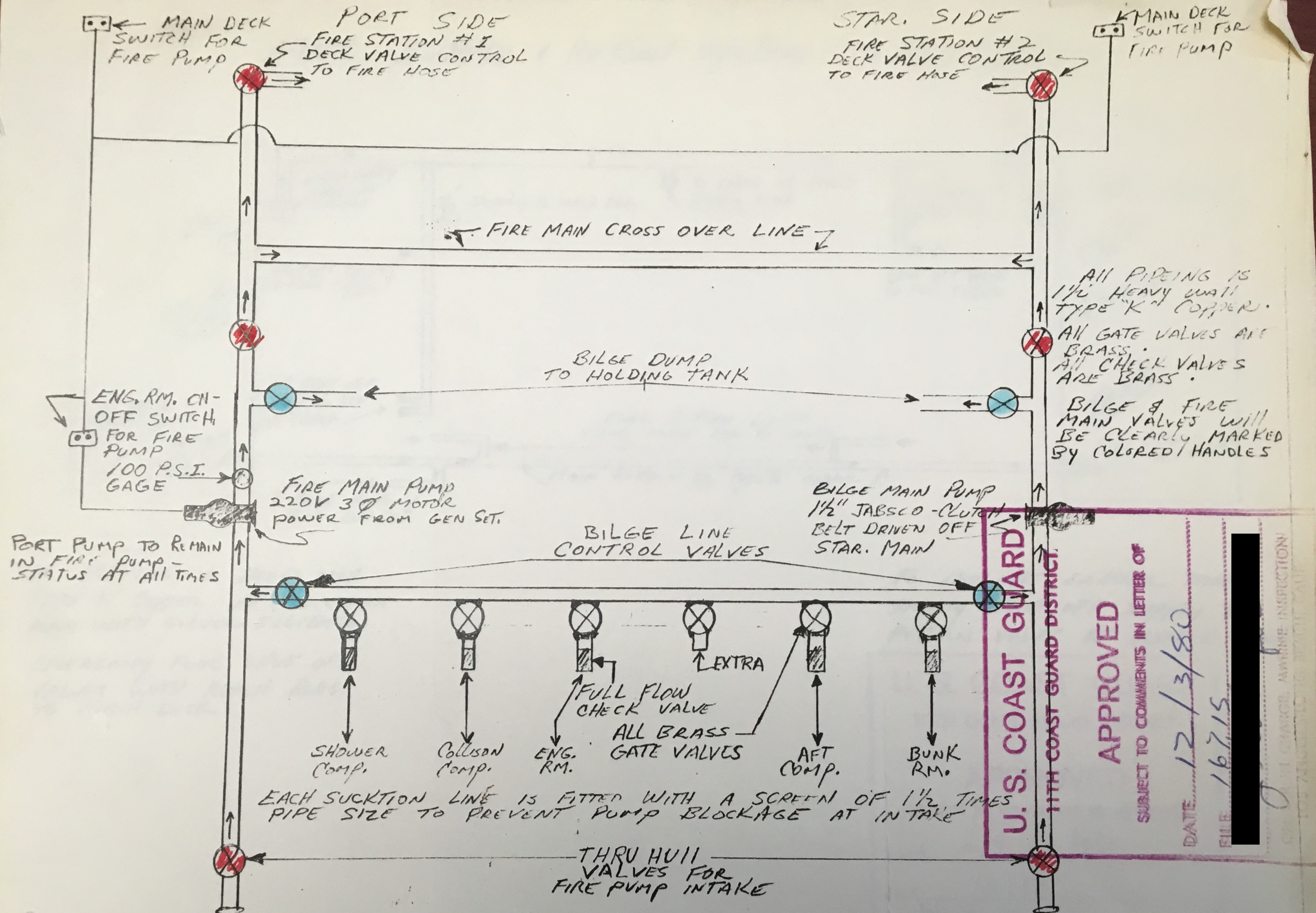
U. S. COAST GUARD
 11TH COAST GUARD DISTRICT

APPROVED
 SUBJECT TO COMMENTS IN LETTER OF

DATE 4 MAY 1981
 FILE 15791

OFFICER IN CHARGE, MARINE INSPECTION
 LOS ANGELES-LONG BEACH, CALIF.

M/V CONCEPTION OWNER: ROY HAUSER
 SUNSET MARINE ELECTRIC
 DRAWN BY: R.M. BERBERICH



All PIPEING IS 1 1/2" HEAVY WALL TYPE "K" COPPER.
 All GATE VALVES ARE BRASS.
 All CHECK VALVES ARE BRASS.
 BILGE & FIRE MAIN VALVES WILL BE CLEARLY MARKED BY COLORED HANDLES

U.S. COAST GUARD

11TH COAST GUARD DISTRICT

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SUBJECT TO COMMENTS IN LETTER OF

DATE 12/3/80

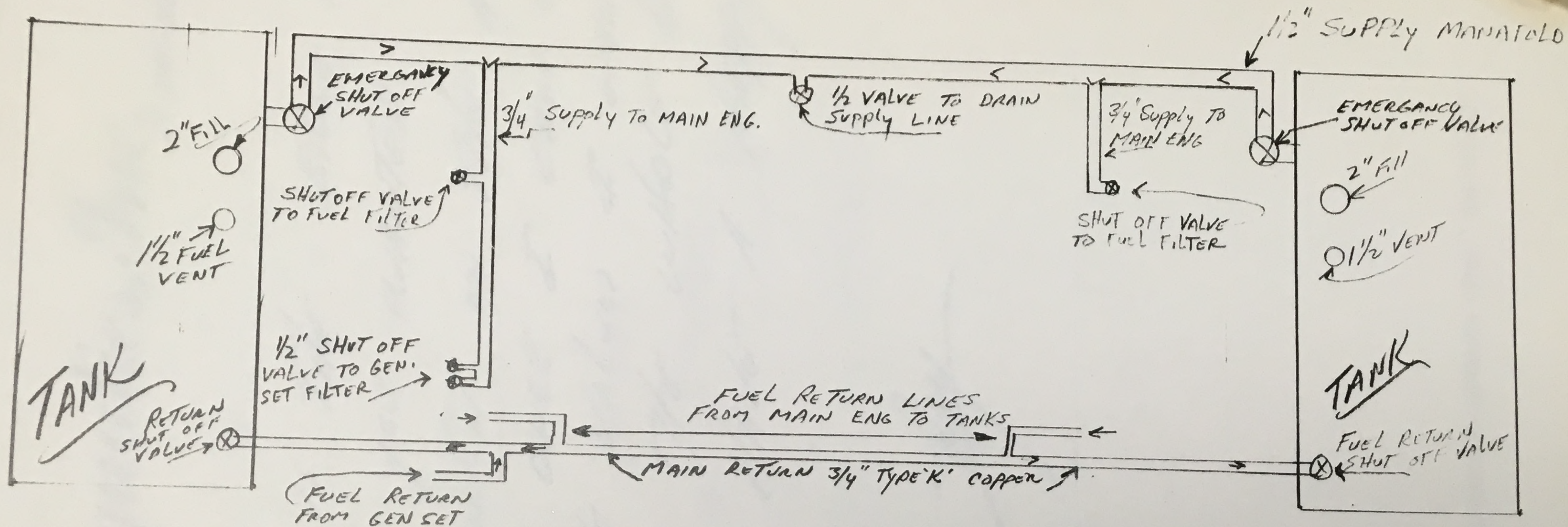
FILE 16715

OFFICE OF CHIEF ENGINEER, MARINE INSPECTION

EACH SUCKTION LINE IS FITTED WITH A SCREEN OF 1 1/2 TIMES PIPE SIZE TO PREVENT PUMP BLOCKAGE AT INTAKE

BILGE & FIRE MAIN SYSTEM FOR BOAT CONCEPTION

FUEL SUPPLY & RETURN SYSTEM - CONCEPTION



ALL PIPEING IS HEAVY WALL TYPE 'K' COPPER. ALL CONNECTIONS MADE WITH SILVER SOLDER.

EMERGENCY FUEL SHUT OFF VALVES WITH REACH RODS TO MAIN DECK

TO ISOLATE EITHER TANK SIMPLY SHUT OFF SUPPLY & RETURN VALVE AT DESIRED TANK.

U. S. COAST GUARD
 11TH COAST GUARD DISTRICT

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SUBJECT TO COMMENTS IN LETTER OF

DATE 12/3/80

FILE 16715

OFFICER IN CHARGE, MARINE INSPECTION
 LOS ANGELES-LONG BEACH, CALIF.

Truth Aquatics, Inc.

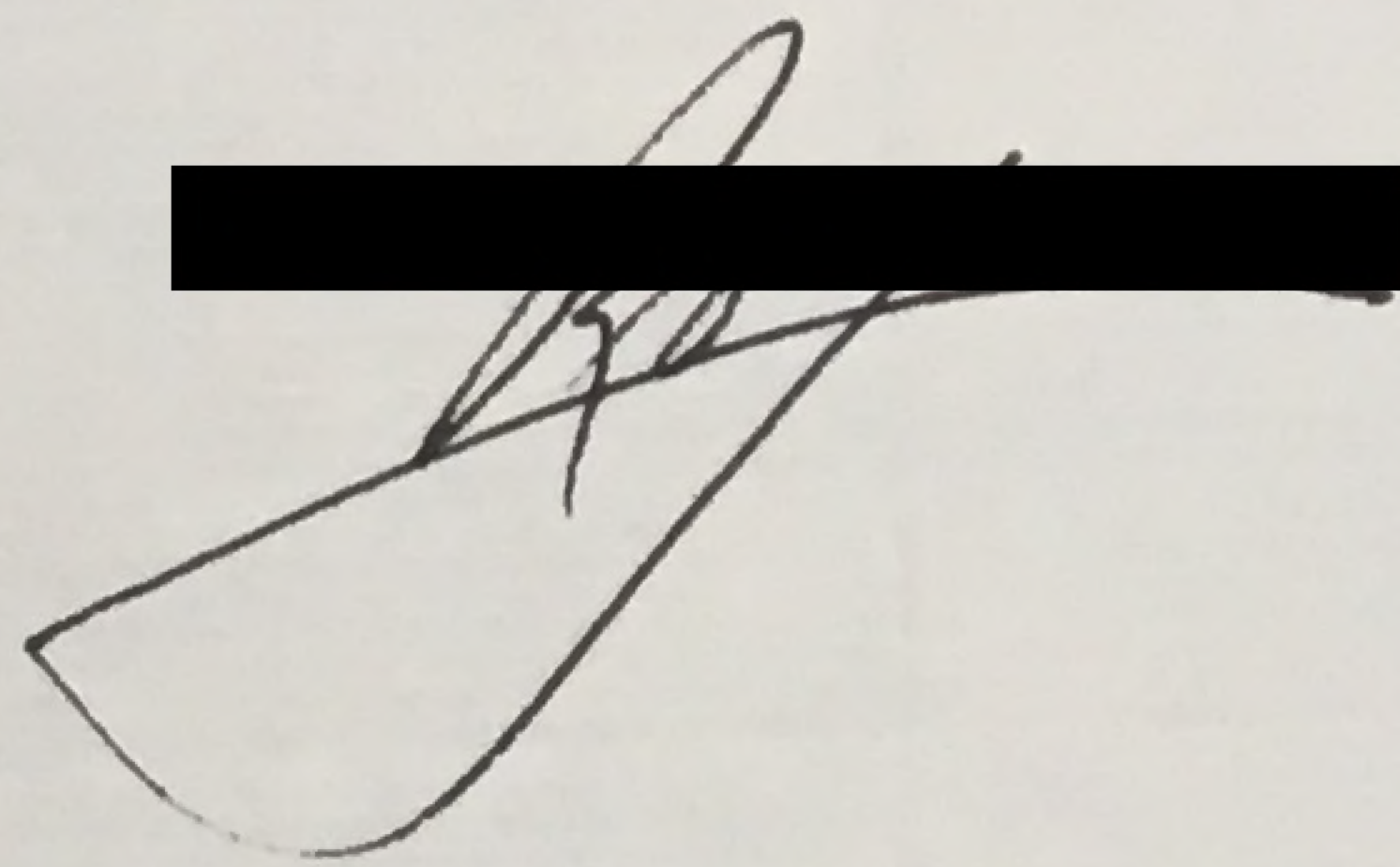
11-24-80

Hi-YA BRUCE,

HERE IS THE BILGE, FIRE,
& FUEL SYSTEMS YOU WANTED.

I'M WORKIN' ON THE AIR
SYSTEM PLANS & ONCE I CAN GET
THE DATA ON THE VALUES I WANT
TO USE I'LL SEND THE WHOLE BALL-
O-WAX TO YA! HAVE A HAPPY

TURKEY DAY



PLAN REVIEW

SMALL PASSENGER VESSEL SIMPLIFIED SUBDIVISION CALCULATION

(In accordance with 46 CFR 178.20-1)

SHEET 1 OF 6

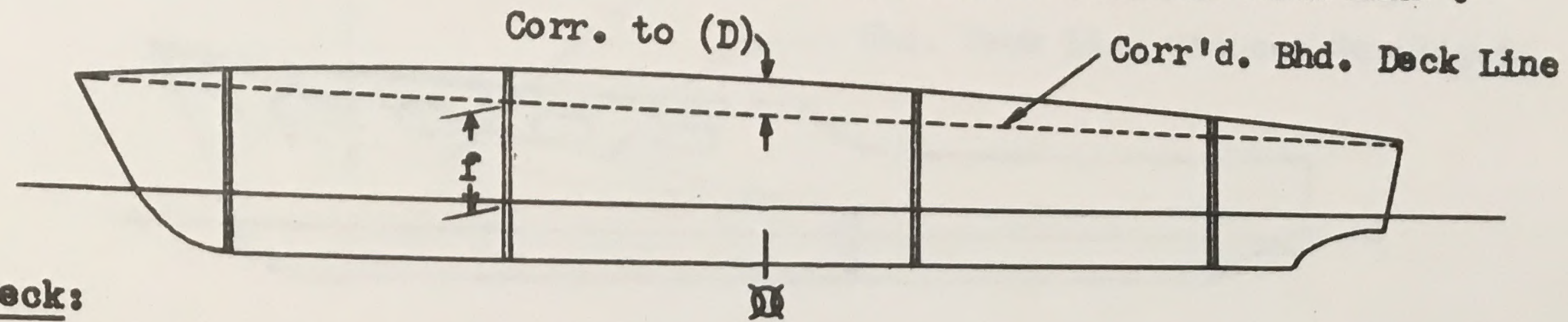
Name of Vessel <u>SEAWAY 7502</u>	Official No. _____	Route <u>OCEANS (SEAS)</u>
Owner or Representative Present at Measurement _____	Inspector _____	Date _____
Location of Vessel at Time of Measurement _____	No. of W.T. Bhds. _____	No. of Passengers _____

INSTRUCTIONS

1. The vessel is to be in maximum load condition except that the fuel and water tanks are to be three-quarters full. Ballast, if required, is to be on board and in place. A capacity load of passengers, crew, cargo, vehicles, stores, etc., is to be on board (or weight equivalent thereto) in proper location.
2. The vessel is to be afloat in water of a density not greater than that of the route for which she is to be certificated, i.e., salt water or fresh water.
3. The vessel is to be in her normal trim, i.e., at a waterline established by the normal distribution of the weight on board. If there is a slight list it is to be corrected by a transverse movement of some of the weight on board so that the vessel is upright in the water.
4. The measurements specified on sheet 4 are to be carefully taken and recorded as indicated in steps (5) or (6) as applicable to the type of vessel. The length (L) is the length of the hull proper, measured over the bulkhead deck, and shall not include fishing platforms, bowsprits, guards, etc. The depth (D) is especially important and should be double-checked. If this particular dimension cannot be measured amidships, as required, due to obstructions, etc., it is to be made at points fore and aft of, and equidistant from amidships and the mean thereof shall be recorded as (D). The beam (B) shall be measured amidships to the outside of the hull and shall not include the guards. The freeboards (f) shall be measured at the bulkheads from the load waterline to the top of the bulkhead deck at the side. The distance from the stem to each bulkhead shall be indicated on the plan in the same manner as bulkhead "A".
5. If the vessel has no portlights which can be opened and is flush decked with normal sheer or no sheer, record the dimensions on sheet 4 and proceed as indicated in step (7).
6. If the vessel has portlights which can be opened, or if it is flush decked with reverse sheer, or if it has a raised deck forward (as in the case of the typical cockpit boat), do not use the sketch on sheet 4. Instead, prepare to accurate scale a profile of the hull above the load waterline, locate the bulkheads, and the portlights, if any, draw in the "corrected bulkhead deck line" as shown on sheets 2 or 3, and then proceed as indicated in step (7).

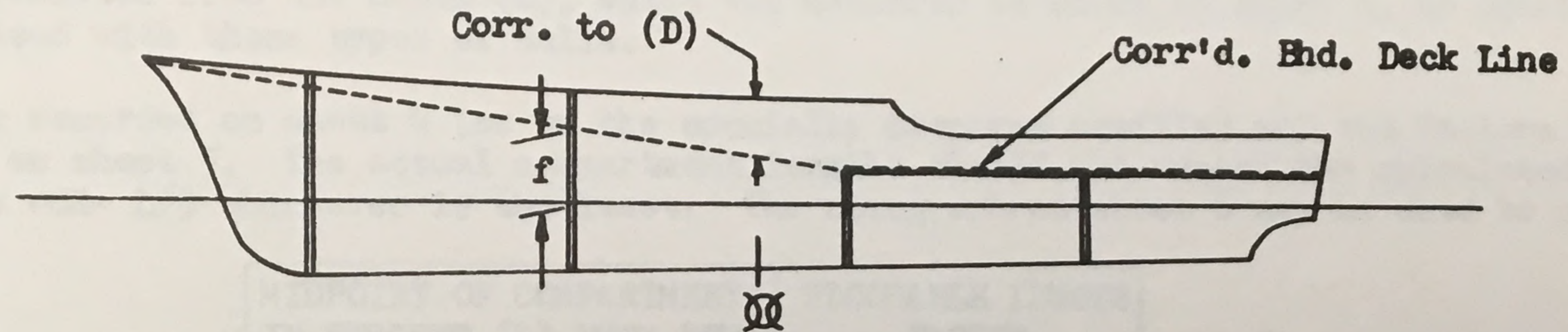
(a) For Reverse Sheer:

Draw a straight line from the stem (at the top of the bulkhead deck) to the stern (at the top of the bulkhead deck at the side) to establish the "corrected bulkhead deck line".



(b) For Raised Deck:

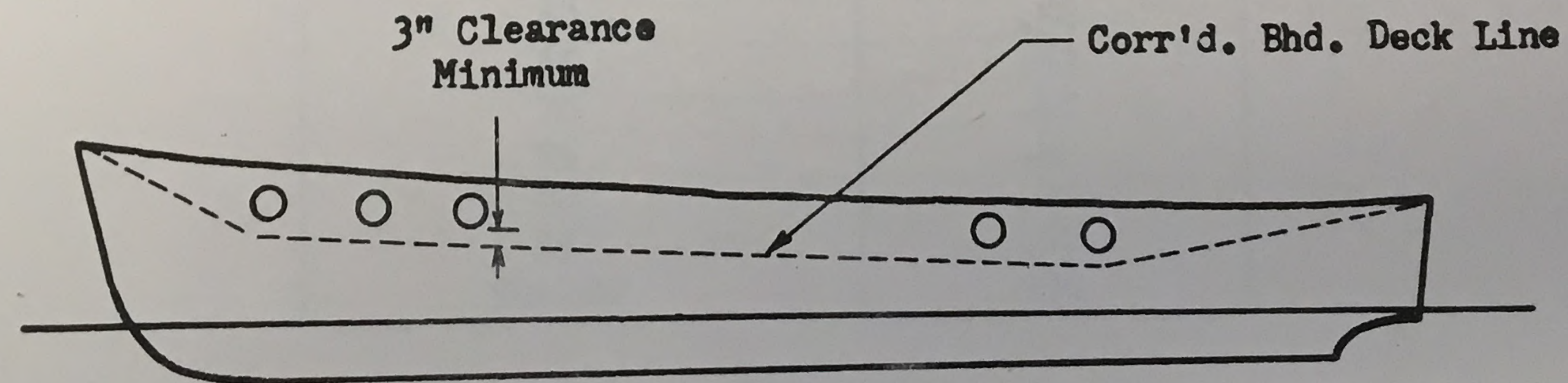
Draw a straight line from the bulkhead deck at the stem to the top of the foremost of the bulkheads which extend to the lower bulkhead deck, to establish the "corrected bulkhead deck line".



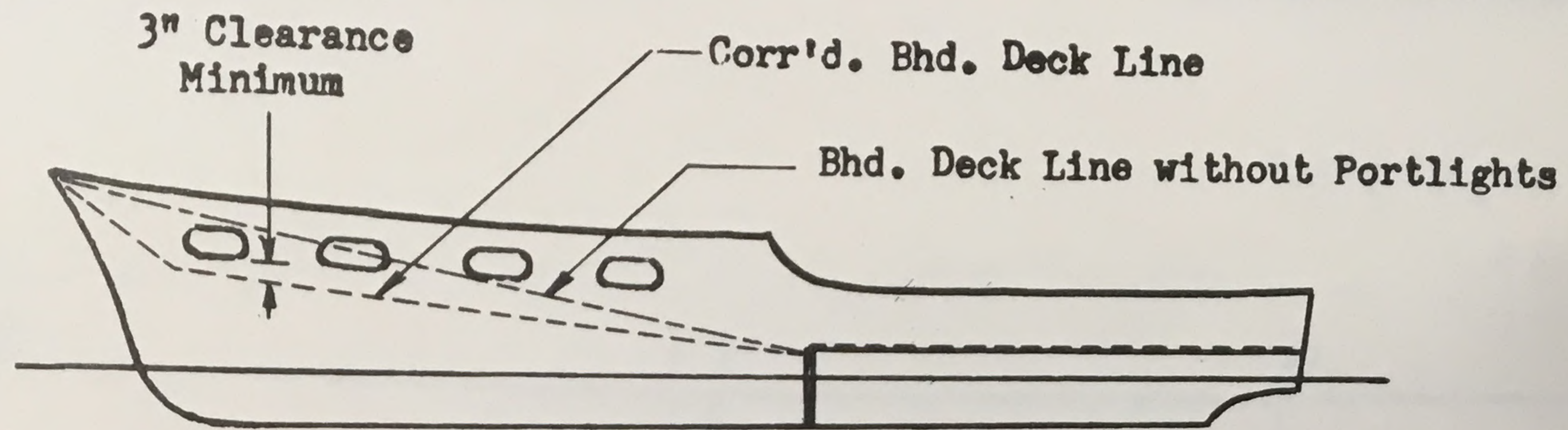
(c) For Vessels of Any Type Having Portlights Which Open:

The "corrected bulkhead deck line" shall be a line which extends from the stem at the actual bulkhead deck, passes not less than 3 inches below the portlights and thence to the stern at the actual bulkhead deck. This line shall not be, at any point, above the corrected bulkhead deck line which would be indicated for the same hull if portlights were not installed.

FLUSH DECK TYPE:



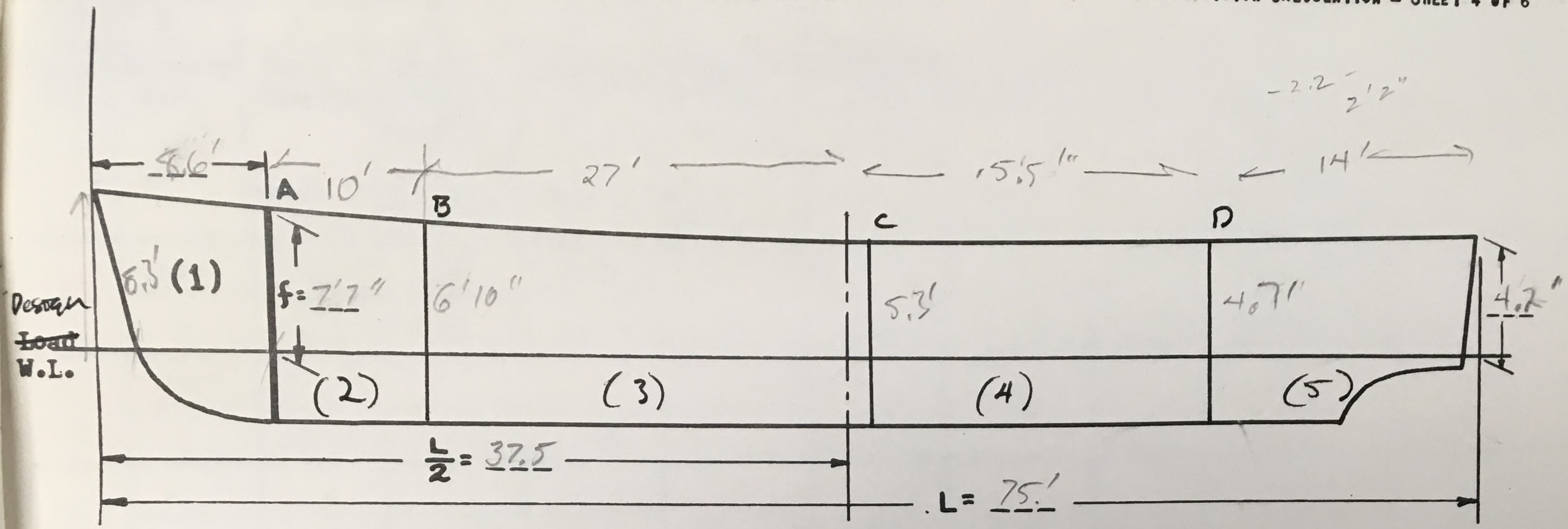
RAISED DECK TYPE:



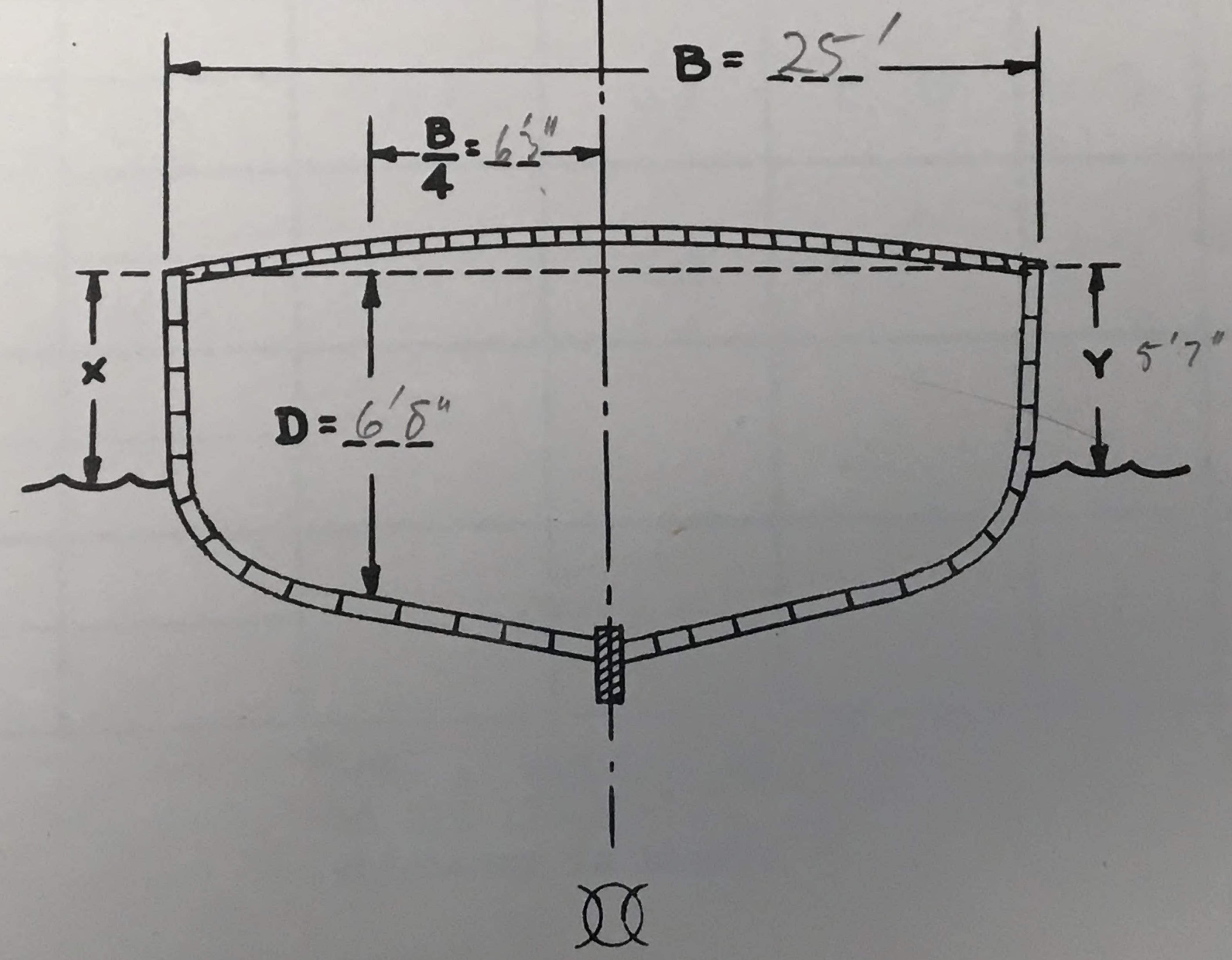
The freeboards at each bulkhead are to be scaled, on the drawing, to this corrected bulkhead deck line. Also, the distance amidships measured from this line upward to the top of the actual bulkhead deck at the side shall be deducted from the depth (D), which was measured as shown on sheet 4, to obtain the correct (D) to be used with these types of hulls.

7. From the dimensions recorded on sheet 4 (or on the specially prepared profile) and the factors listed below, complete the table on sheet 5. The actual compartment lengths should not exceed the calculated permissible compartment lengths -OR- $L/3$ whichever is the least. The nomograph on sheet 6 may be used to check results.

MIDPOINT OF COMPARTMENT IN PERCENT (L) FROM BOW	FLOODABLE LENGTH FACTOR
0-15%	.33
20	.34
25	.36
30	.38
35	.43
40	.48
45	.54
50	.61
55	.63
60	.58
65	.53
70	.48
75	.44
80	.40
85	.37
90-100	.34



1. Draw in other W.T. bulkheads. Indicate distance from stem and freeboard for each as shown for Bulkhead "A".
2. Freeboards "x" and "y" Amidships must be equal.
3. Record all dimensions in feet and tenths.
4. Indicate water density at time of measurement.
 Salt Brackish Fresh



$$\frac{L}{D} = \frac{75}{6.7} = 11.2$$

Maximum Length of Any Compartment

$$\frac{L}{3} = \frac{75}{3} = 25'$$

Name of Vessel _____

Official No. _____

SUBDIVISION CALCULATION - SHEET 5 OF 6

1	2	3	4	5	6	7	8	9	10	11
Compt. No.	Boundary Bnds.	Dist. Stem/Bhd sheet 3	Dist. Stem/Bhd (as % L) Col. 3x100 L	Freeboard (f) sheet 3	Midpoint of Compt. (as % L) Avrg. of 2 in Col. 4	Floodable Length Factor sheet 23	Effective Freeboard Avrg. of 2 in Col. 5	L/D sheet 3	Permissible Compt. Length Cols. 7 x 8 x 9 NOT to exceed L/3 = <u>25</u> ft.	Actual Compt. Length Diff. of 2 in Col. 3
1	Stem	0	0	7.6'					(11.5%) *	
	A	8.6'	11.5%	7.6'	5.7%	.33	7.9	11.2	5.15 ft	8.6
2	A				18.1%					
	B	18.6'	24.8%	6.8'		.34	7.2	11.2	27.4	10
3	B									
	c	45.6'	60.7%	5.3'	42.7%	.51	6.1	11.2	34.8	27
4	c									
	D	61.1'	81.4%	4.7'	71.1%	.47	5.0	11.2	26.3	15.5
5	D									
	Trans.	75.1'	100%	4.2'	90.7%	.34	4.5	11.2	17.1	14

Tested and Proven Watertight

*-OR- as required by
46 CFR 178.15-1,
whichever is least.

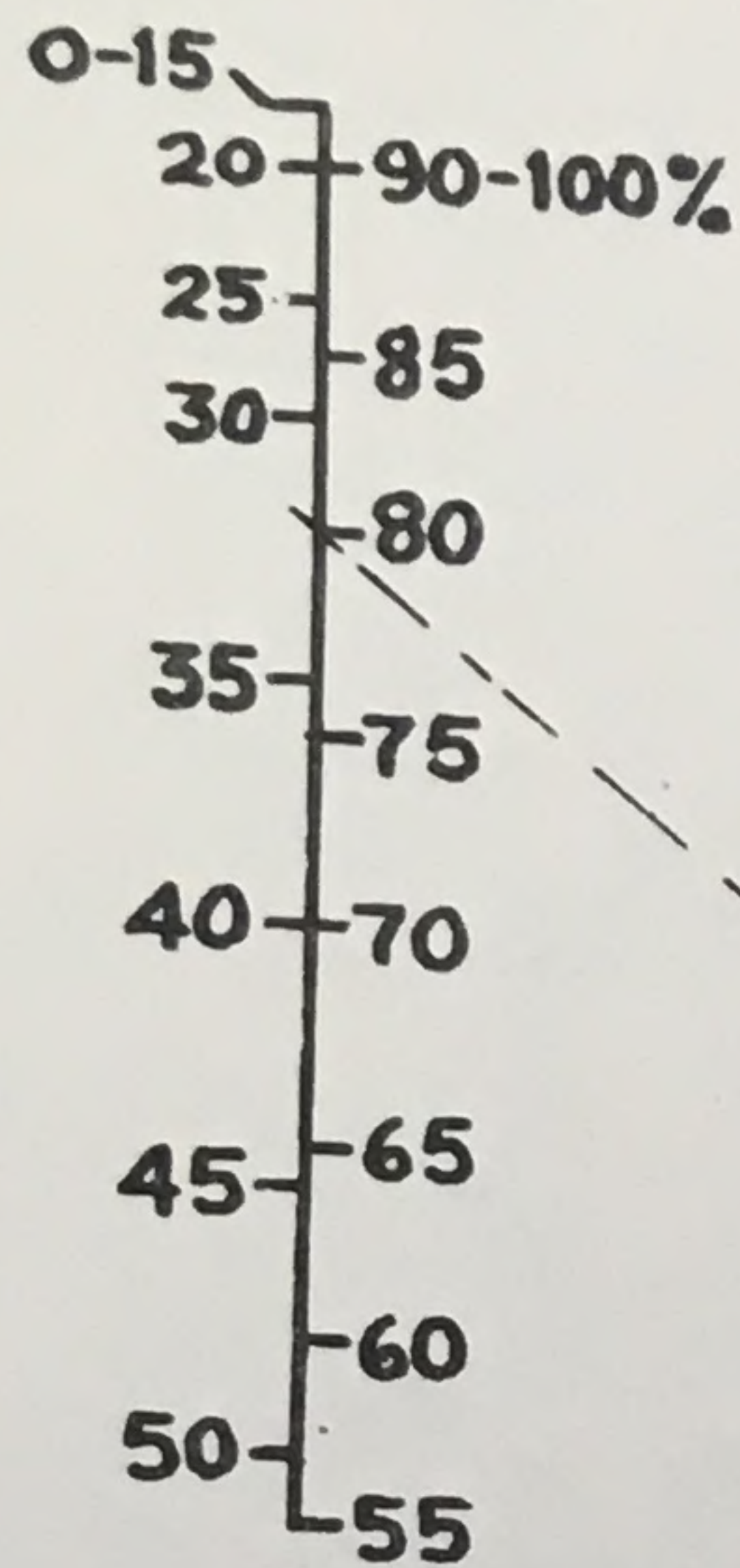
Measured and Computed by

Marine Inspector

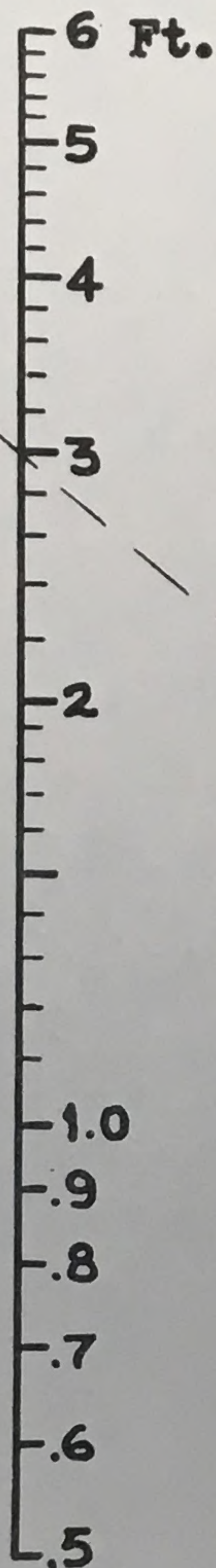
Marine Inspector

SUBDIVISION CHART

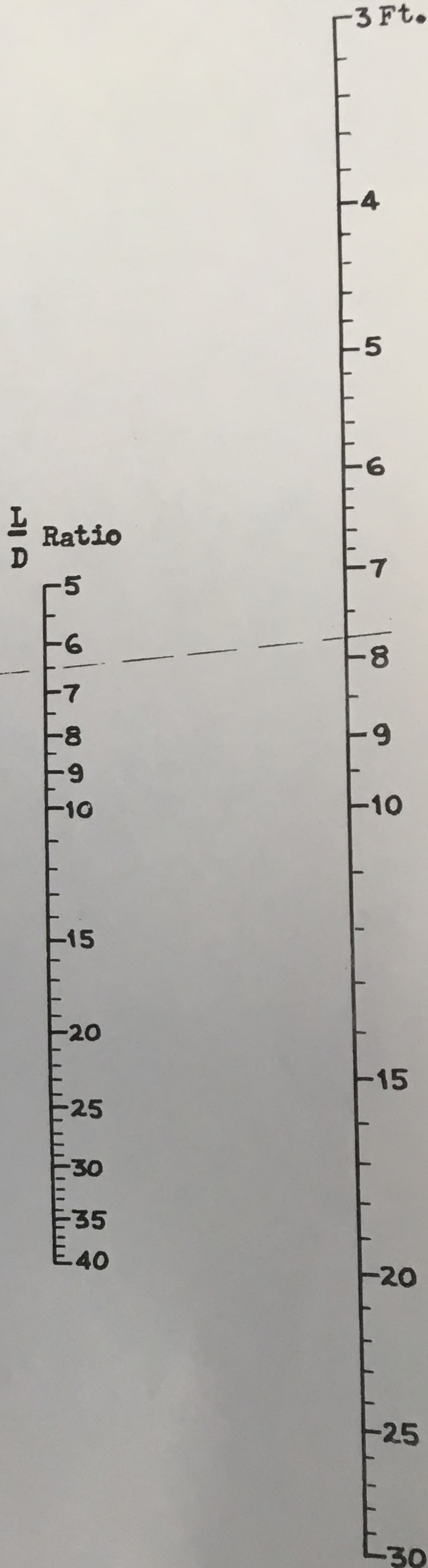
Midpoint of
Compartment
(Percent L)



Effective
Freeboard



Maximum
Permissible
Compartment
Length



(A)

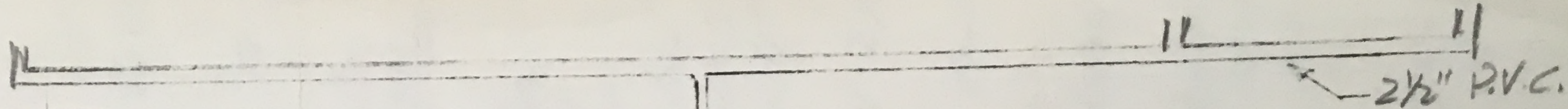
INSTRUCTIONS

1. Draw line from M.P. Percent through Eff. Freeboard to locate point (A).
2. Draw line from point (A) through L/D ratio to obtain Permissible Compt. Length.

EXAMPLE:

M.P.	=	80%	} Compt. = 7.8 ft.
E.F.	=	3 ft.	
L/D	=	6.5	

U.S. COAST GUARD
 11TH COAST GUARD DISTRICT
APPROVED
 SUBJECT TO COMMENTS IN LETTER OF
 DATE 16 Dec 1970
 FILE [REDACTED]



3" PVC DUMP INTO TANK

1/2" Bilge DUMP

5" INSPECTION PORT

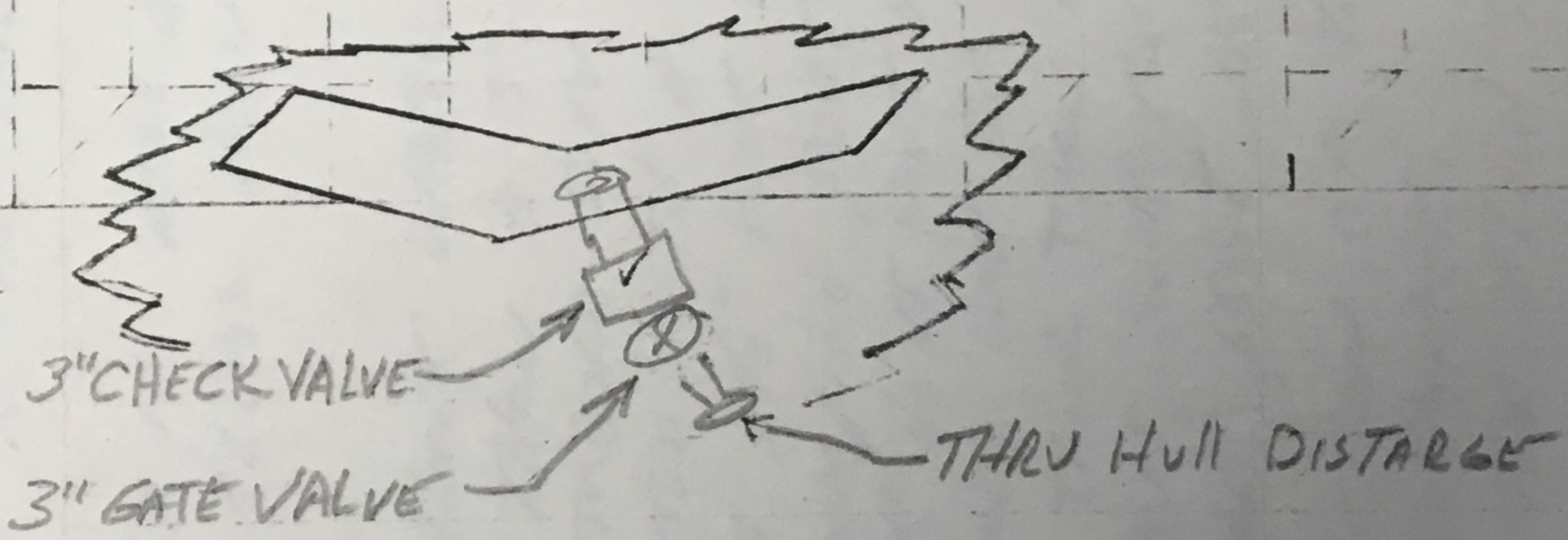
1 1/2" BLEED DUMP

1 1/2" PUMP OUT PORT

1 1/2" OVER BOARD VENT - STARB. SIDE

- SCREEN

1/2" CLEAR PVC. SIGHT GAGE



3" CHECK VALVE

3" GATE VALVE

THRU HULL DISCHARGE

TANK CAPACITY: 420 GAL.
 30 GAL PER FLUSH REQUIRED
 TO CLEAR BOWL = 140 FLUSHES

24" MARINE SANITATION SYSTEM
 BOAT - "CONCEPTION"

TANK BAFFLE

ALL CORNERS TO BE 6" CUT OUT



MARINE SANITATION SYSTEM - BOAT "CONCEPTION"

THE VESSEL WILL BE FITTED WITH 3 COMPLETE TOILET FACILITIES. EACH CONTAINING FRESH WATER & BASIN WITH SOAP & HAND TOWELS

ALL TOILET BOWLS WILL BE STANDARD COMMERCIAL GRADE PORCELAIN TYPE WITH ALL (CHICAGO BRAND) CHROME PLATED BRASS FLUSH VALVES.

SEA WATER FLUSHING WILL BE PROVIDED WITH A 115' (BURKS) TURBINE PUMP - SPEC. SHEET ENCLOSED - MODEL TCT7M 3/4 HP.

* HOLDING TANK TO BE 1/4" FIBER GLASS CONSTRUCTION WITH FIRE RETARDANT RESIN - MIL-R-7575. BAFFLES TO BE EVERY 24"

TANK SIZE 2' X 2' X 14' MAX OF 420 GAL. 3 GAL. PER FLUSH REQUIRED TO CLEAR BOWL WILL ALLOW FOR 140 FLUSHES.

TANK TO BE 3" ABOVE WATER LINE WILL ALLOW FOR GRAVITY DRAINAGE THRU A 3" GATE VALVE LOCATED UNDER TANK ON STARBOARD SIDE OF KEEL. DRAINAGE LINE WILL ALSO BE FITTED WITH A FULL FLOW 3" CHECK VALVE. TANK WILL HAVE A 1 1/2" VENT PIPE TO OVERBOARD STARBOARD SIDE AND A 1 1/2" PUMPING PORT LOCATED ON TOP RIGHT AFT CORNER. ALSO 1 1/2" VENT PORT SIDE.

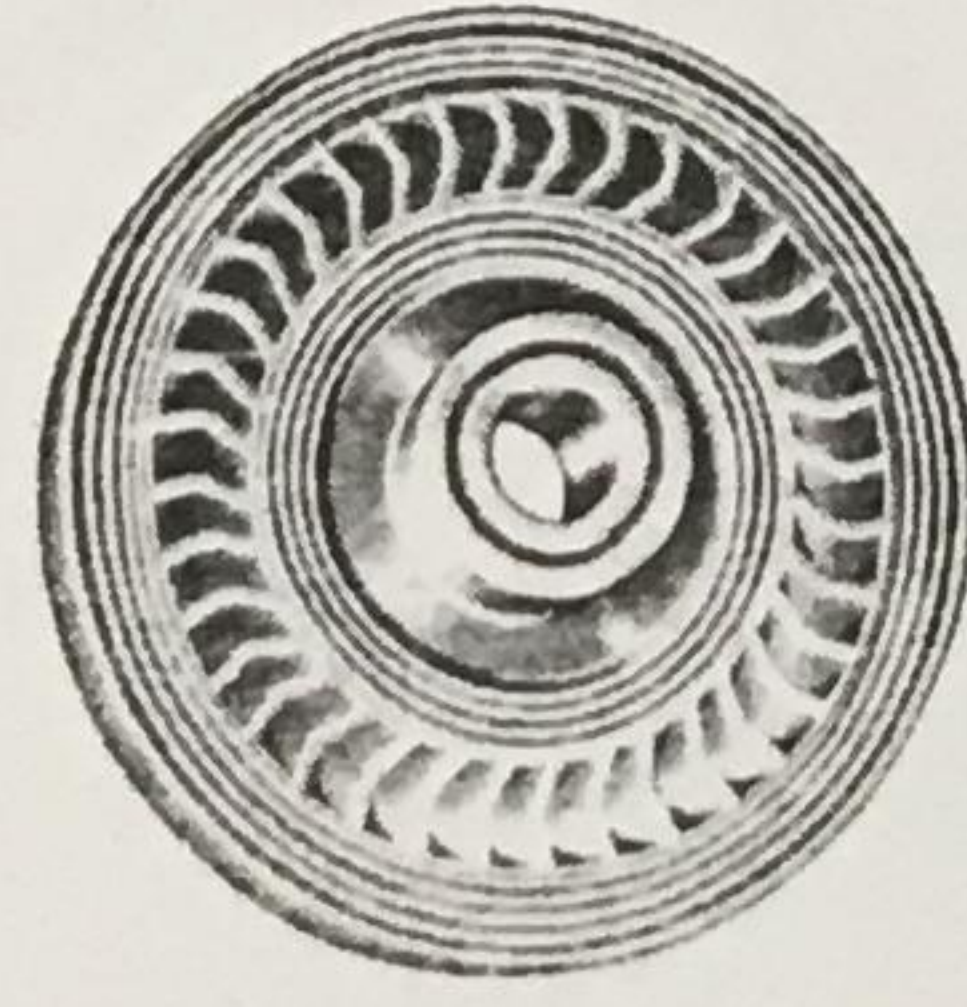
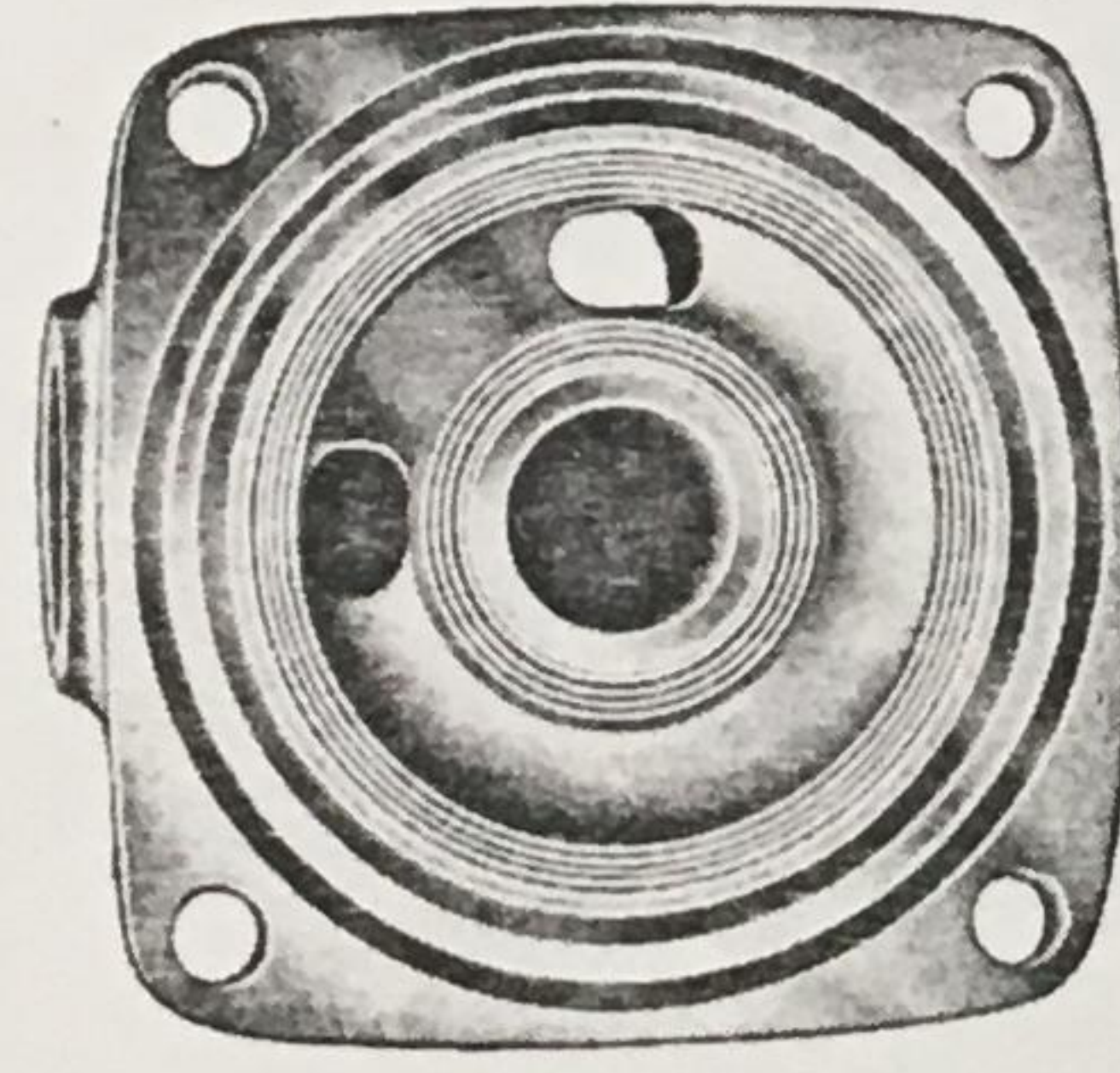
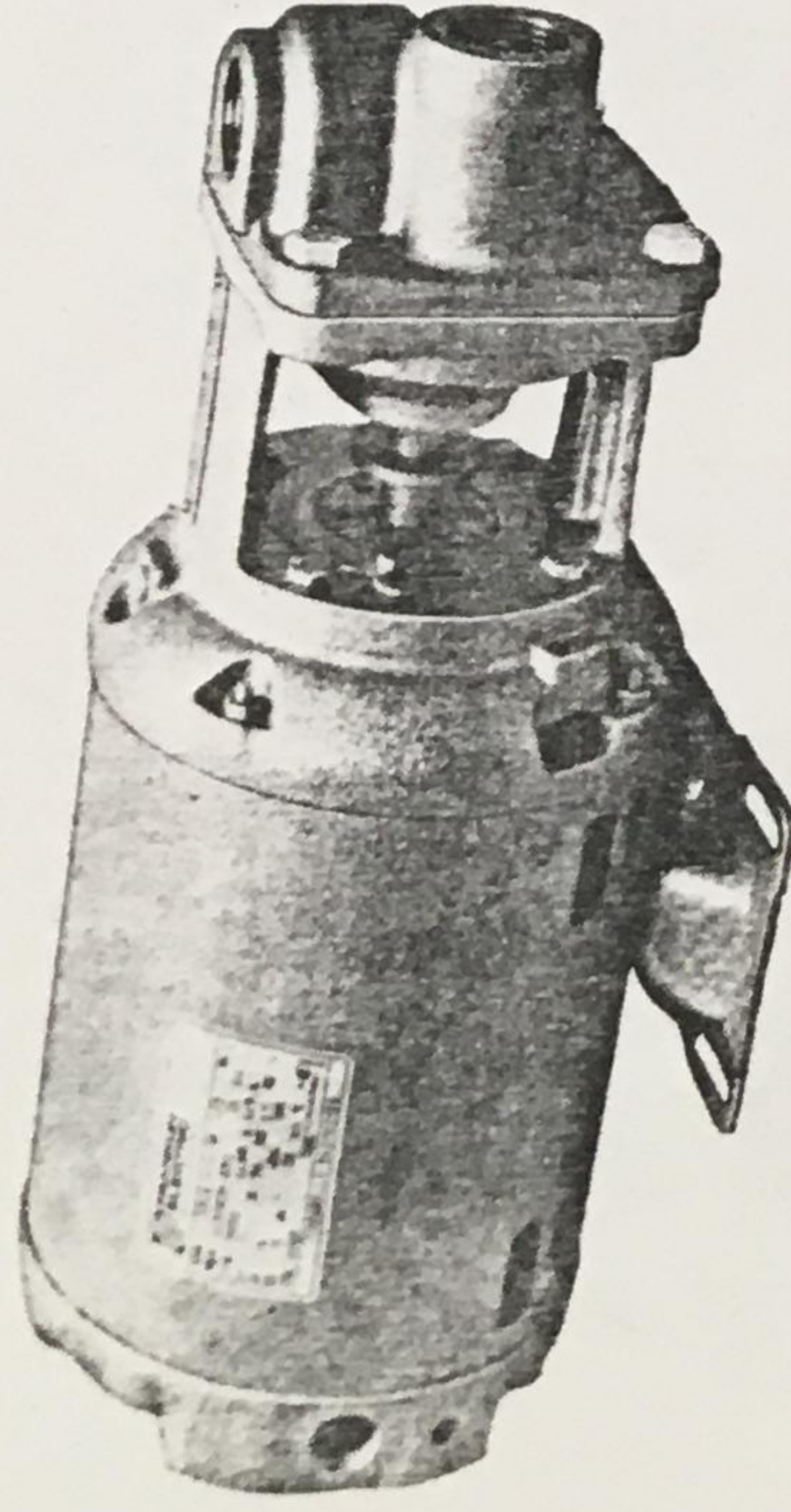
ALL THREE (3) HEADS WILL BE PIPED TOGETHER WITH 2 1/2" P.V.C. THEN DUMP INTO TANK THRU A 3" P.V.C. LINE. A 5" INSPECTION PORT WILL BE LOCATED ON TOP OF TANK DIRECTLY OVER DRAINAGE PORT IN EVENT OF BLOCKAGE.

BOTTOM CENTER SECTION OF TANK WILL BE "V" SHAPED TO ENSURE TOTAL DRAINAGE.

TANK WILL BE LOCATED FLUSH TO FWD ENGB. RM. BULKHEAD SUPPORTED OFF BOTTOM STRAINERS ON A 3/4" PLYWOOD BASE. ANTI ABRASIVE PAPER WILL BE PLACED BETWEEN TANK AND PLYWOOD BASE.

ON PORT ^{AFT} CORNER (BOTTOM) A 1 1/2" CLEAR P.V.C. SIGHT GAGE WILL ALLOW FOR MONITORING WASTE LEVEL IN TANK. THIS LINE WILL BE FITTED WITH AN INTAKE SCREEN TO PREVENT BLOCKAGE AND BE VENTED OVER BOARD - PORT SIDE.

Close Coupled Turbine Pumps



BURKS close coupled turbine pumps, Series CT, 3450 R.P.M. and 4CT, 1725 R.P.M., are available in eleven models for capacities up to 8 g.p.m.—pressures up to 150 p.s.i. and for temperatures up to 210° F., with standard packing or mechanical shaft seal. Special packing and shaft seals are available for higher temperature applications.

These compact turbine pumps are designed for pumping clear water and many other non-abrasive, lower viscosity liquids. They are especially engineered for boiler feed on steam process applications and will serve up to a 38 hp. boiler at a 3 to 1 safety factor. Available in standard or all bronze construction, these pumps are recommended for condensate return—hot or cold water circulating—booster systems—brine circulating and many special applications requiring higher pressures and lower capacities.

BURKS is the only turbine pump providing Life-Lok® External Impeller Adjustment that allows readjustment of impeller without disturbing piping, disassembling pump or replacing parts to compensate for normal wear after years of service. Gives up to 40% longer service life than turbine pumps of other designs.

PERFORMANCE AND SELECTION CHART

Catalog Number	H.P.	Tappings		PSI Feet	TOTAL HEAD														
		Suct.	Disch.		CAPACITY IN G.P.M.														
1-Phase					8.6	17.2	26	43.3	54.1	64.9	75.8	86.6	97.4	108.3	119.1	130	140.1	151.6	
24CT6M	**	1	1		20	40	60	100	125	150	175	200	225	250	275	300	325	350	
24CT7M	**	1	1																
1725 RPM																			
3CT5M	1/3	1	1		2.4	2.2	1.9	1.6	1.4	1.2	1.0	.8	.6	.5	.4	.3			
5CT5M	1/2	1	1		3.4	3.1	2.8	2.3	2.1	1.8	1.6	1.4	1.2	1.0	.8	.7			
3CT6M	1/3	1	1																
5CT6M	1/2	1	1																
7CT6M	3/4	1	1																
5CT7M	1/2	1	1		4.2	4.0	3.8	3.4	3.2	3.0	2.9	2.8	2.7	2.6	2.5	2.4	2.4		
7CT7M	3/4	1	1		4.2	4.0	3.8	3.4	3.2	3.0	2.9	2.8	2.7	2.6	2.5	2.4	2.4		
3450 RPM																			
33CT15M	1/3	1	1		6.0	5.7	5.3	4.8	4.6	4.4	4.3	4.2	4.0	3.9	3.8	3.7	3.7	3.6	
35CT15M	1/2	1	1		6.0	5.7	5.3	4.8	4.6	4.4	4.3	4.2	4.0	3.9	3.8	3.7	3.7	3.6	
37CT16M	3/4	1	1		6.0	5.7	5.3	4.8	4.6	4.4	4.3	4.2	4.0	3.9	3.8	3.7	3.7	3.6	
35CT17M	1/2	1	1		8.3	7.8	7.4	6.8	6.5	6.2	6.0	5.8	5.5	5.5	5.3	5.2	5.1	5.0	
37CT17M	3/4	1	1		8.3	7.8	7.4	6.8	6.5	6.2	6.0	5.8	5.5	5.5	5.3	5.2	5.1	5.0	

Ratings shown are based on test at sea level, pumping clear water at normal temperatures.

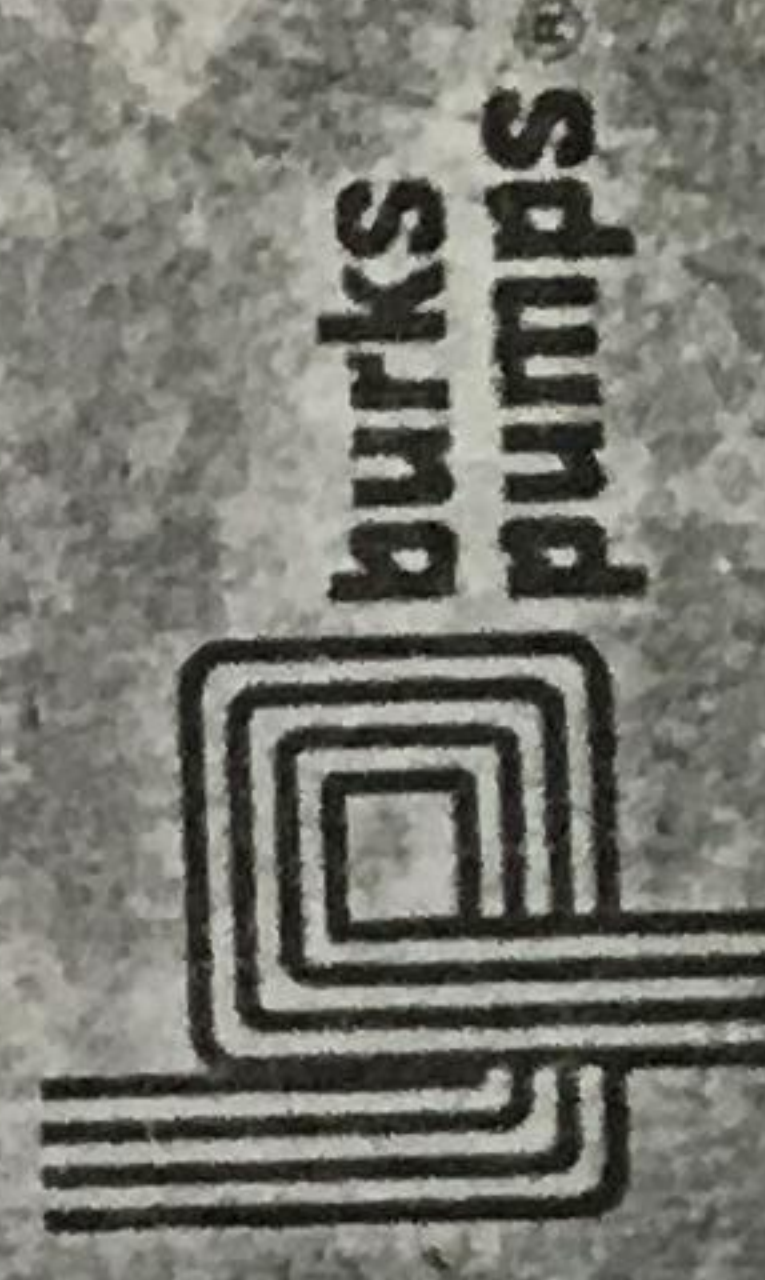
*Catalog numbers are for pumps equipped with mechanical shaft seal. For split-gland stuffing box, omit suffix "M" from Catalog Number.
Example: 5CT6.

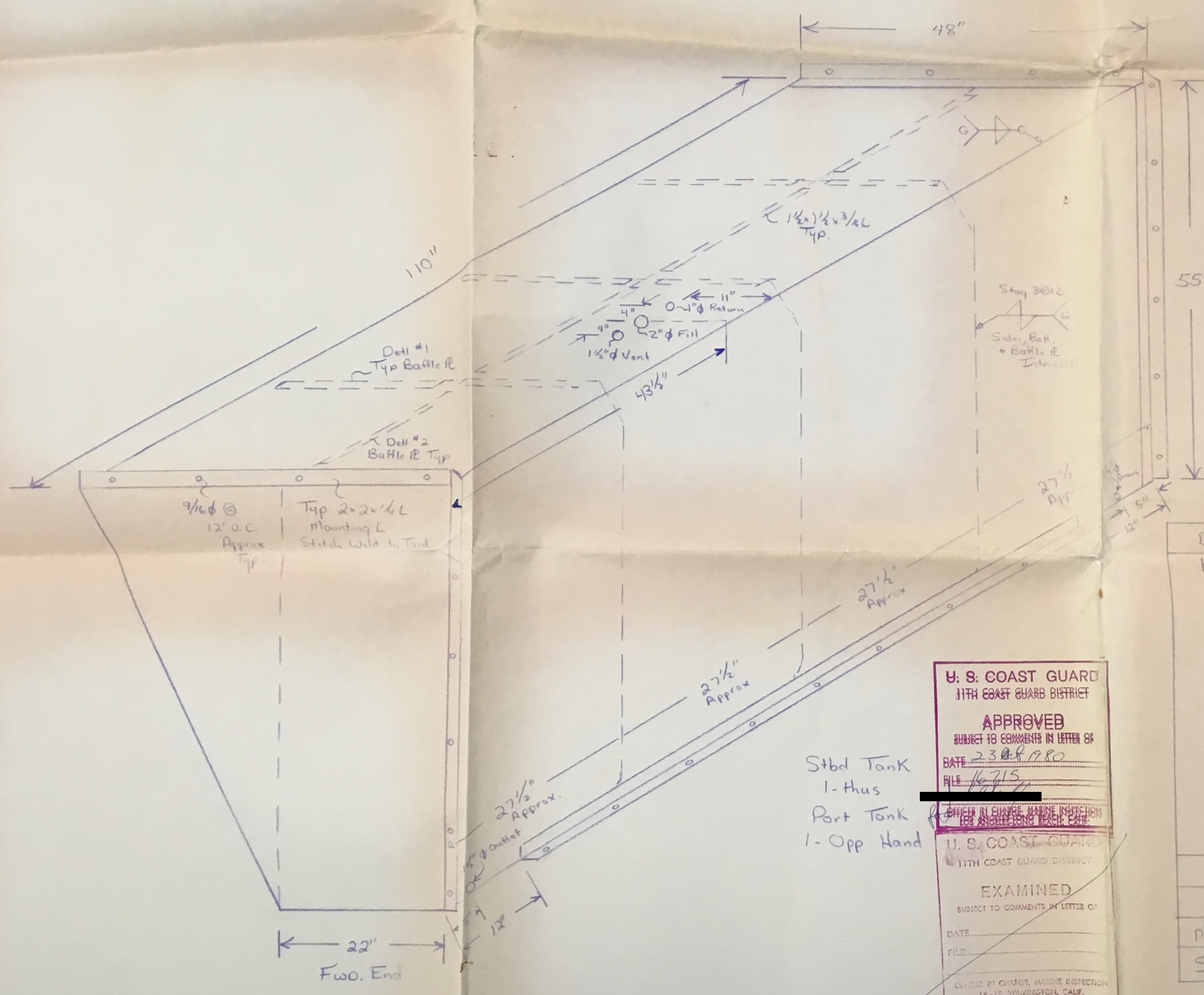
**24CT Series available in single phase only.

Motors have ball bearings with provisions for relubrication. Standard pump motors have open drip proof construction and are rated with jet pump service factors for continuous duty operation at all ratings shown. Single phase motors are capacitor start induction run with built-in overload protection. Three phase motors require a magnetic type starter which provides full 3-leg overload protection. Failure to use the correct starter and overloads will void the warranty. All three phase motors are 208-230/460 volt, 60/50 HZ, 3450/2850 RPM.

Single phase motors are:
1/4 hp. — 115-230 volt, 60 HZ, 1725 R.P.M.
1/3, 1/2 & 3/4 hp. — 115-230 volt, 60 HZ, 3450 R.P.M.

Single phase motors, 1/3, 1/2 & 3/4 hp. are U.L. approved.





- General Notes**
- 1) All Metals To Be ASTM A36 Plate - $\frac{3}{16}$ " Thickness Unless Otherwise Noted
 - 2) All Pipe Fittings To Be Buckeye Type Tank Flanges Are to be welded inside and outside prior to closing tanks.
 - 3) All debris to be removed from interior prior to closing tanks.
 - 4) Finish by Others (Zinc Epoxy Primer & Epoxy Finish Coat Recommended) Tank exterior to be sandblasted prior to coating.
 - 5) All welds by G.M.A.W. Process Using E70XX Electrode As Per A.W.S. A.I.S.I. Codes
 - 6) Tanks to be tested to S.P.I. & Inspected by U.S.C.G. Marine Inspector prior to shipment.
 - 7) Baffle top ends to be slot welded through tank top using $1\frac{1}{2}$ " x $\frac{3}{16}$ " L Welded to Slot Through Tank Top.
 - 8) Baffles to be wrap welded 3 " Both Sides of all corners.
 - 9) Tanks shall be welded inside and outside using corner to corner fit.
 - 10) Tanks shall conform to U.S.C.G. Subchapter T, Marine Engineering Regulations, Supplemental Guidelines 21 March 77 and all other applicable U.S.C.G. Standards.
 - 11) Tanks to be inspected by U.S.C.G. Marine Inspector Prior to closing top.
 - 12) Drawing to be approved by U.S.C.G. prior to tank fabrication.
 - 13) Dimensions shown are O.D. unless otherwise noted.
 - 14) Dimensions shown to tank pipe fittings are to $\frac{1}{2}$ " of fitting.
 - 15) Installation by Others
 - 16) Outlets & Drains Mounted as low as possible in tank.

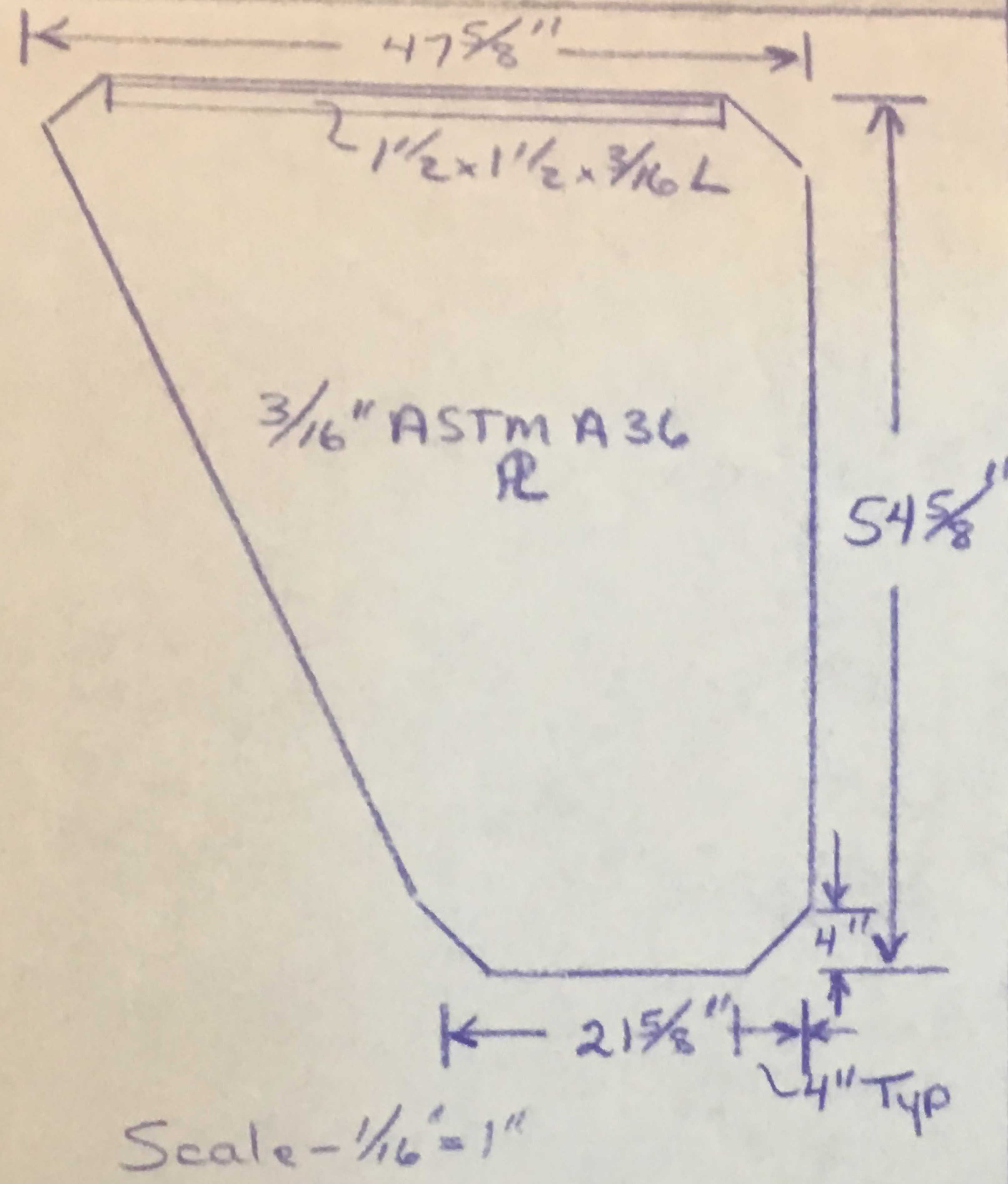
Detail #1 Baffle Plate	Detail #2 - Baffle Plate
Boat - Conception	TRULOVE IRON WORKS
Under Construction	331 W. 168th St.
Main Fuel Tanks - 916 Gal Cap Ea	Gardena, Ca. 90248
Scale - $\frac{1}{16}$ " = 1"	Drawn by <i>[Signature]</i> 213-321-9921

U. S. COAST GUARD
 11TH COAST GUARD DISTRICT
APPROVED
 SUBJECT TO COMMENTS IN LETTER OF
 DATE 23 Oct 1980
 FILE 16715
 OFFICER IN CHARGE MARINE INSPECTION
 LOS ANGELES TACK EXC
 U. S. COAST GUARD
 11TH COAST GUARD DISTRICT
EXAMINED
 SUBJECT TO COMMENTS IN LETTER OF
 DATE
 FILE
 OFFICE IN CHARGE MARINE INSPECTION
 LA - 12, WIRMBINGTON, CALIF.

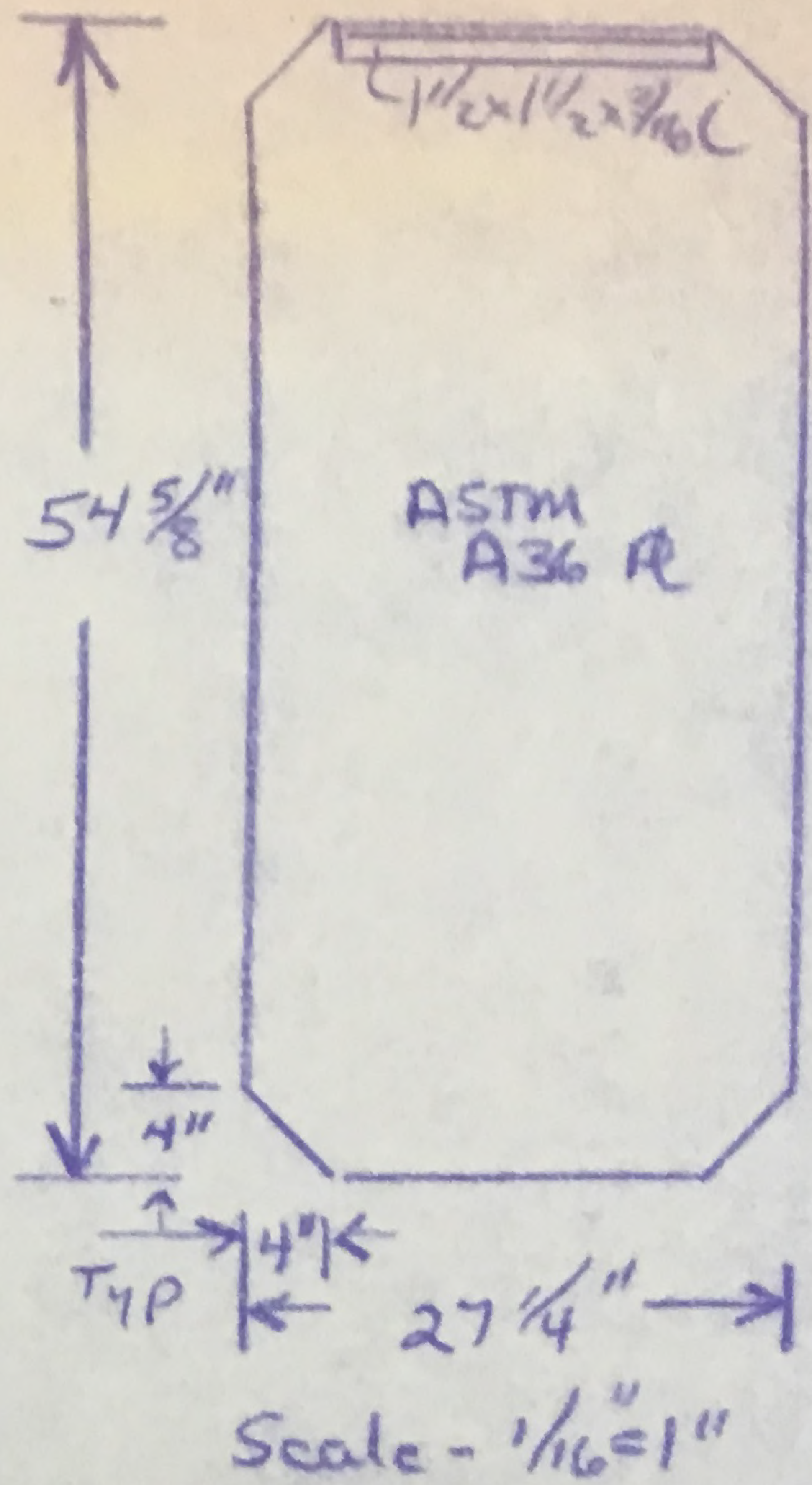
Stbd Tank
 1 - thus
 Port Tank
 1 - Opp Hand

12" 5"

Detail #1 Baffle Plate



Detail #2 - Baffle Plate



Boat - Conception

TRULOVE IRON WORKS

Under Construction

331 W. 168th St.

Main Fuel Tanks - 9 1/6 Gal Cap Ea

Gardena, Ca. 90248

Scale - 1/8" = 1"

Drawn by *[Signature]*

213-321-9921

COAST GUARD
COAST GUARD DISTRICT

APPROVED

TO COMMENTS IN LETTER OF

308 1980

715

IN CHARGE, MARINE INSPECTION
ANGELES-LONG BEACH, CALIF.

COAST GUARD

COAST GUARD DISTRICT

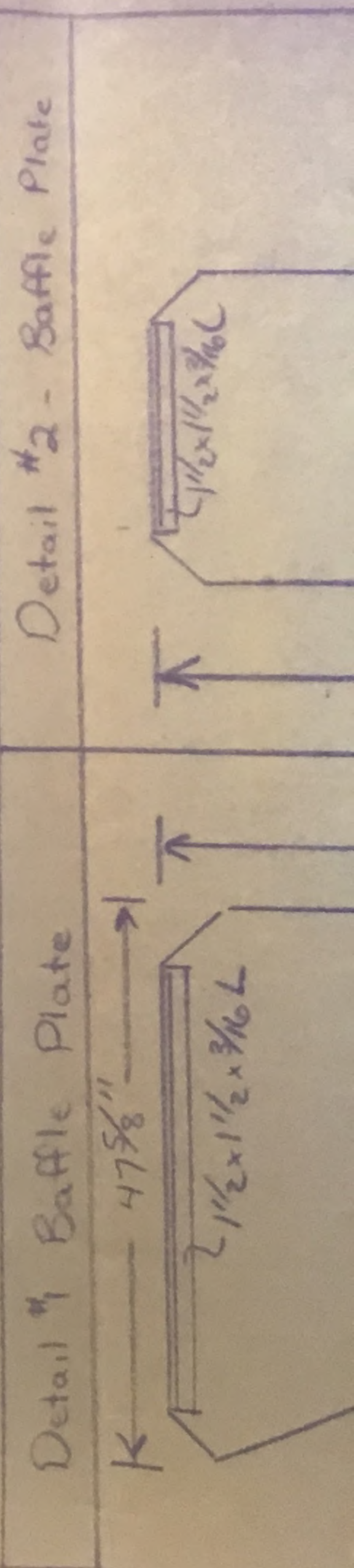
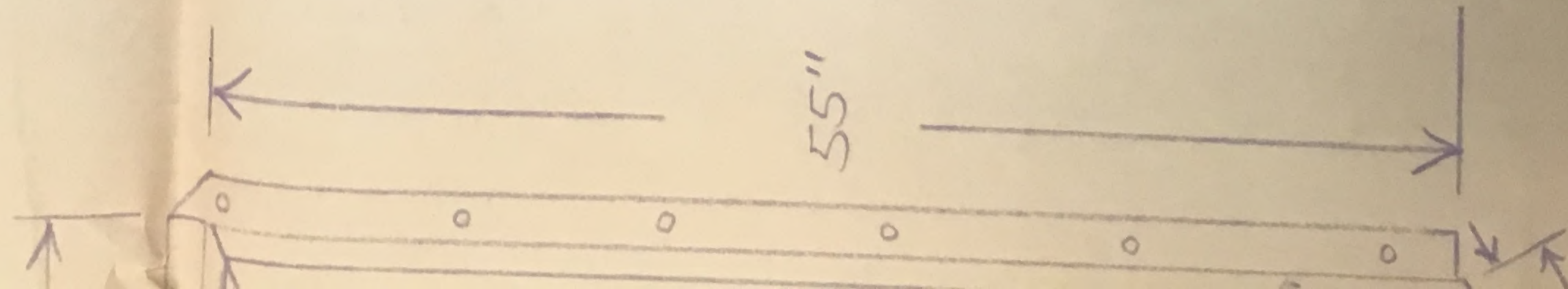
EXAMINED

TO COMMENTS IN LETTER OF

IN CHARGE, MARINE INSPECTION
LA-LB, WILMINGTON, CALIF.

General Notes

- 1) All Mats. To Be ASTM A36 Plate - $\frac{3}{16}$ " Thickness Unless Otherwise Noted
- 2) All Pipe Fittings To Be Buckeye Type Tank Flanges Are to be welded inside and outside prior to closing tanks.
- 3) All debris to be removed from interior prior to closing tanks
- 4) Finish by Others (Zinc Epoxy Primer & Epoxy Finish Coat Recommended) Tank exterior to be sandblasted prior to coating.
- 5) All welds by G.M.A.W. Process. Using E70XX Electrode As Per A.W.S. & A.I.S.C. Codes
- 6) Tanks to be tested to S.P.I. & Inspected by U.S.C.G. Marine Inspector prior to shipment.
- 7) Baffle top ends to be slot welded through tank top using $1\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{16}$ L Welded to Slot Through Tank Top.
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- 12) Drawing to be approved by U.S.C.G. prior to tank fabrication.
- 13) Dimensions shown are O.D. unless otherwise noted.
- 14) Dimensions shown to tank pipe fittings are to $\frac{1}{2}$ " of fitting.
- 15) Installation by Others
- 16) Outlet Drains Mounted as low as possible in tank





United States of America
Department of Homeland Security
United States Coast Guard

Certification Date: 19 Nov 2014
Expiration Date: 19 Nov 2019

Certificate of Inspection

For ships on international voyages this certificate fulfills the requirements of SOLAS 74 as amended regulation V/14 for a SAFE MANNING DOCUMENT

Vessel Name	Official Number	IMO Number	Call Sign	Service
CONCEPTION	638133		WYR8548	Passenger (Inspected)

Hailing Port	Hull Material	Horsepower	Propulsion
SANTA BARBARA, CA	Wood	1000	Diesel Reduction
UNITED STATES			

Place Built	Delivery Date	Keel Laid Date	Gross Tons	Net Tons	DWT	Length
LONG BEACH, CA	01Jul1981		R-97	R-86		R-75.0
UNITED STATES			-	-		-0

Owner	Operator
FRITZLER FAMILY TRUST DTD 7/27/92 301 W. Cabrillo Blvd Santa Barbara, CA 93101 UNITED STATES	TRUTH AQUATICS, INC 301 W CABRILLO BLVD SANTA BARBARA, CA 93101-3886 UNITED STATES

This vessel must be manned with the following licensed and unlicensed Personnel. Included in which there must be 0 Certified Lifeboatmen, 0 Certified Tankermen, 0 HSC Type Rating, and 0 GMDSS Operators.

1 Masters	1 Licensed Mates	0 Chief Engineers	0 Oilers
0 Chief Mates	0 First Class Pilots	0 First Assistant Engineers	
0 Second Mates	0 Radio Officers	0 Second Assistant Engineers	
0 Third Mates	0 Able Seamen	0 Third Assistant Engineers	
0 Master First Class Pilot	0 Ordinary Seamen	0 Licensed Engineers	
0 Mate First Class Pilots	2 Deckhands	0 Qualified Member Engineer	

In addition, this vessel may carry 99 Passengers, 0 Other Persons in crew, 0 Persons in addition to crew, and no Others. Total Persons allowed: 103

Route Permitted And Conditions Of Operation:
---Oceans---

PACIFIC OCEAN, NOT ON AN INTERNATIONAL VOYAGE, BETWEEN THE SAN LUIS OBISPO / MONTEREY COUNTY LINE: 35°-47.5' NORTH LATITUDE, AND 31°-45' NORTH LATITUDE, NOT MORE THAN 100 MILES FROM THE MAINLAND SHORE.

IF THE VESSEL IS AWAY FROM THE DOCK OR PASSENGERS ARE ON BOARD OR HAVE ACCESS TO THE VESSEL FOR LESS THAN 12 HOURS IN ANY 24 HOUR PERIOD, THE CREW MAY BE REDUCED TO 1 MASTER AND 2 DECKHANDS. THE NUMBER OF PASSENGERS MAY BE ADJUSTED ACCORDINGLY SO THAT THE TOTAL PERSONS ALLOWED DOES NOT EXCEED 103.

A MEMBER OF THE VESSEL'S CREW SHALL BE DESIGNATED BY THE MASTER AS A ROVING PATROL AT ALL TIMES, WHETHER OR NOT THE VESSEL IS UNDERWAY, WHEN THE PASSENGER'S BUNKS ARE OCCUPIED.

SEE NEXT PAGE FOR ADDITIONAL CERTIFICATE INFORMATION

With this Inspection for Certification having been completed at Santa Barbara, CA, UNITED STATES, the Officer in Charge, Marine Inspection, Los Angeles - Long Beach certified the vessel, in all respects, is in conformity with the applicable vessel inspection laws and the rules and regulations prescribed thereunder.

Annual/Periodic/Re-Inspection				This Amended certificate issued M.E. NEWBERRY, CDR, U.S. Coast Guard, By Direction Officer in Charge Marine Inspection Los Angeles - Long Beach Inspection Zone
Date	Zone	A/P/R	Signature	
18Feb2016	MSD StBarbara	A		
16Feb2017	MSD StBarbara	A		
13Feb2018	MSD StBarbara	A		



United States of America
Department of Homeland Security
United States Coast Guard

Certification Date: 19 Nov 2014
Expiration Date: 19 Nov 2019

Certificate of Inspection

Vessel Name CONCEPTION

A CHILD-SIZED LIFE JACKET SHALL BE PROVIDED FOR EACH PERSON WEIGHING LESS THAN 90 POUNDS.
Overnight accommodations for 46 passengers.

---Hull Exams---

Exam Type	Next Exam	Last Exam	Prior Exam
DryDock	28Feb2021	13Feb2019	10Feb2017

---Stability---

Type	Issued Date	Office
Letter	10Jul1981	LA-LB

---Lifesaving Equipment---

Total Equipment for 103 Persons

Primary Lifesaving Equipment	Quantity	Capacity	Required
Lifeboats (Total)	0	0	Life Preservers (Adult) 103
Lifeboats (Port)	0	0	Life Preservers (Child) 11
Lifeboats (Starboard)	0	0	Ring Buoys (Total) 3
Motor Lifeboats	0	0	With Lights 1
Lifeboats With Radio	0	0	With Line Attached 1
Rescue Boats/Platforms	1	0	Other 1
Inflatable Rafts	0	0	Immersion Suits 0
Life Floats/Buoyant App	6	104	Portable Lifeboat Radios 0
Inflatable Buoyant Apparatus (IBA)	0	0	Equipped With EPIRB? YES

--- Fire Fighting Equipment ---

Number of Fire Pumps - 1

Hose Information

Location	Quantity	Diameter	Length
MAIN DECK	2	1.5	50

Fixed Extinguishing Systems

Location	Type	Capacity
ENGINE ROOM	Carbon Dioxide	200 Pound

Fire Extinguishers - Hand portable and semi-portable

Quantity	Class Type
1	B-I
5	B-II

---Certificate Amendments---

Unit Amending	Amendment Date	Amendment Remark
Sector Los Angeles/Long Beach	10Feb2017	Conducted hull exam for credit drydock; amended due dates.
Sector Los Angeles/Long Beach	13Feb2019	Conducted hull exam for credit drydock; amended due dates.

END

U.S. COAST GUARD
11TH COAST GUARD DISTRICT

APPROVED

SUBJECT TO COMMENTS IN LETTER OF

DATE February 28, 2001

FILE Conception, DG 38133

[Signature]

BY DIRECTION OF THE
OFFICER IN CHARGE, MARINE INSPECTION
LOS ANGELES - LONG BEACH, CA

Exploded View of Wiring

12V
ANEL

