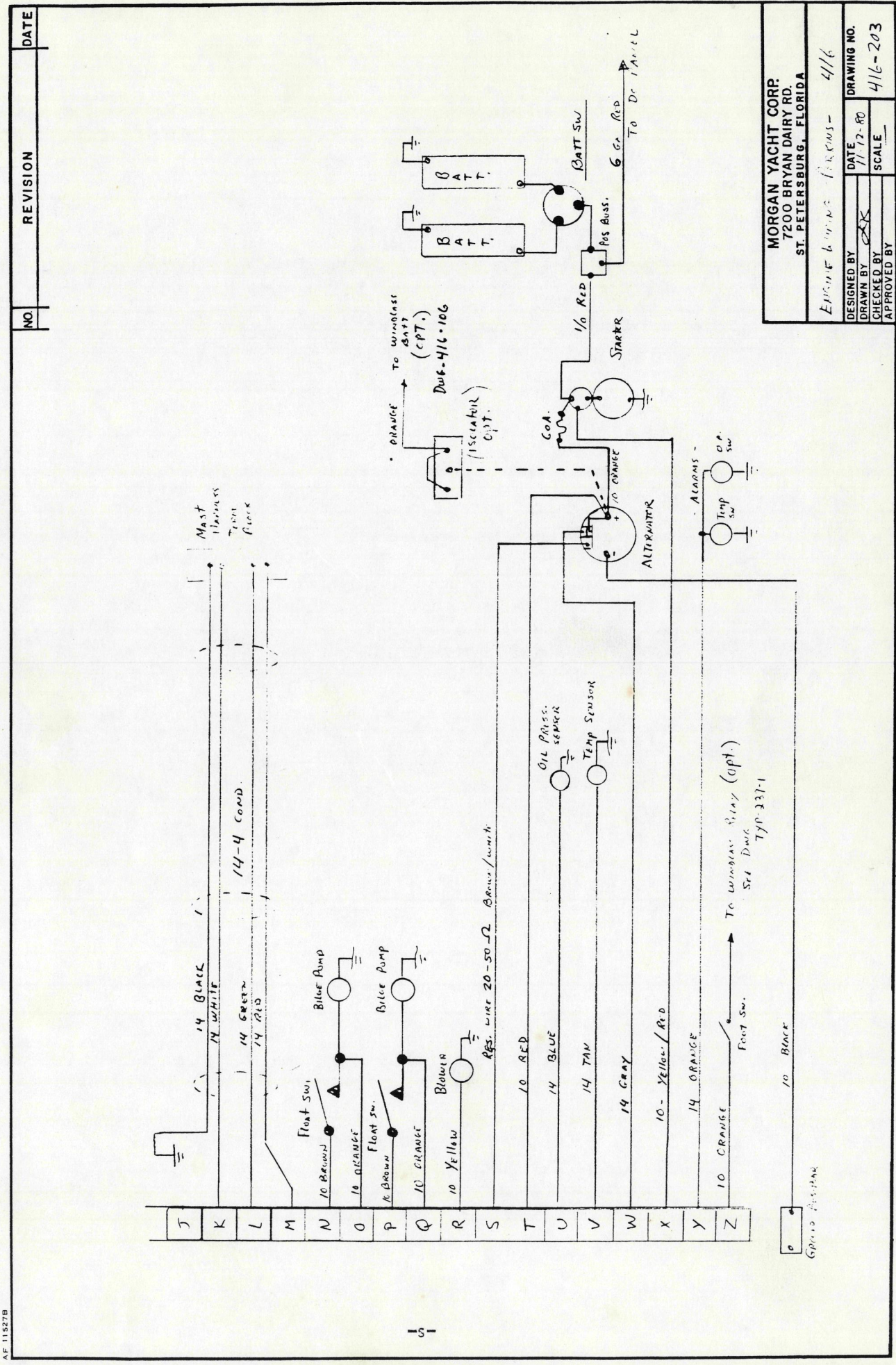


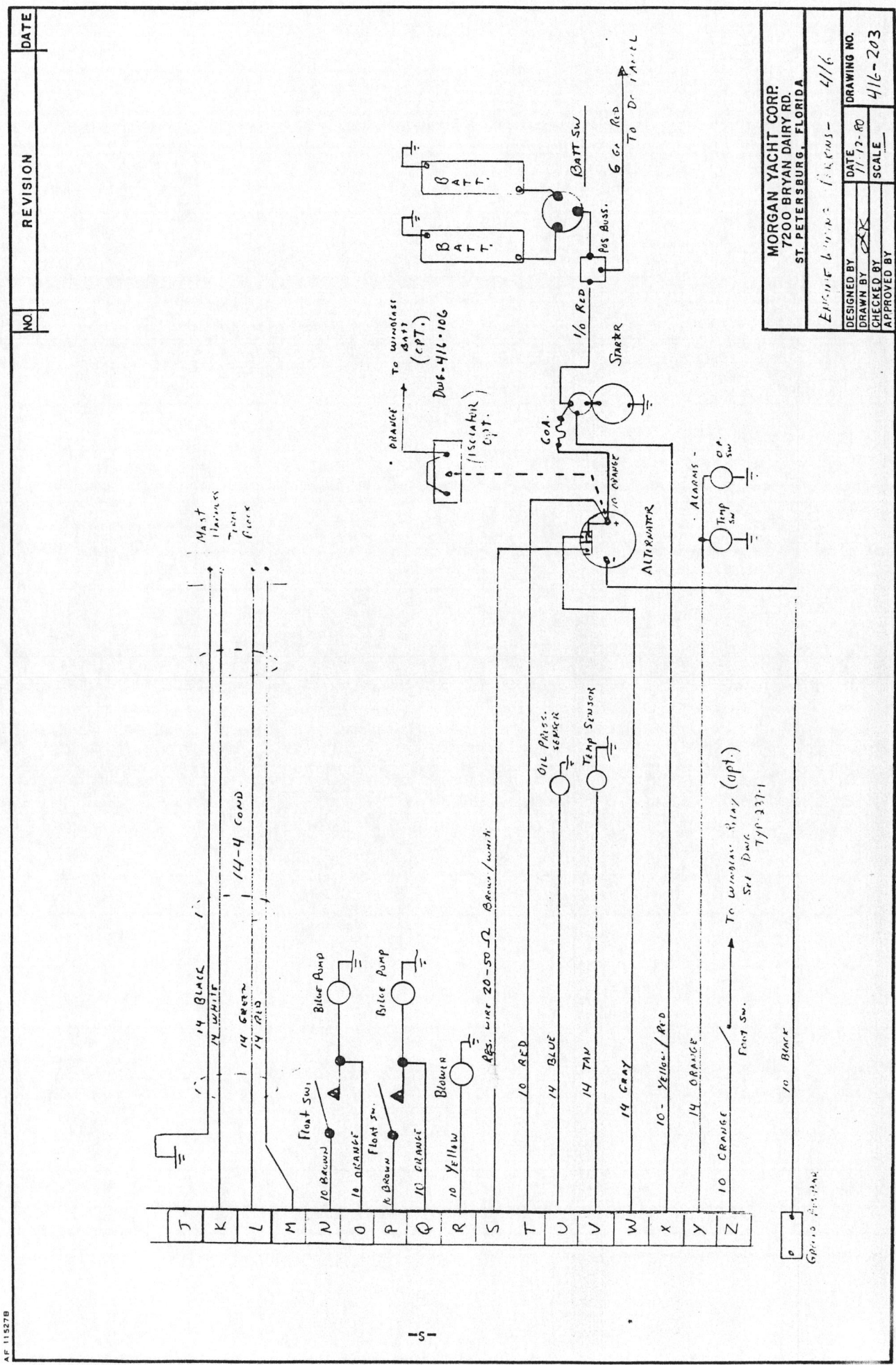
206-789-7003  
LARRY



MORGAN YACHT CORP. 7200 BRYAN DAIRY RD. ST. PETERSBURG, FLORIDA	
DESIGNED BY E. J. ...	DATE 11-12-80
DRAWN BY LARRY	SCALE
CHECKED BY	APPROVED BY
DRAWING NO. 416-203	416



206-789-7003  
LARRY



NO.	REVISION	DATE

MORGAN YACHT CORP.  
7200 BRYAN DAIRY RD.  
ST. PETERSBURG, FLORIDA

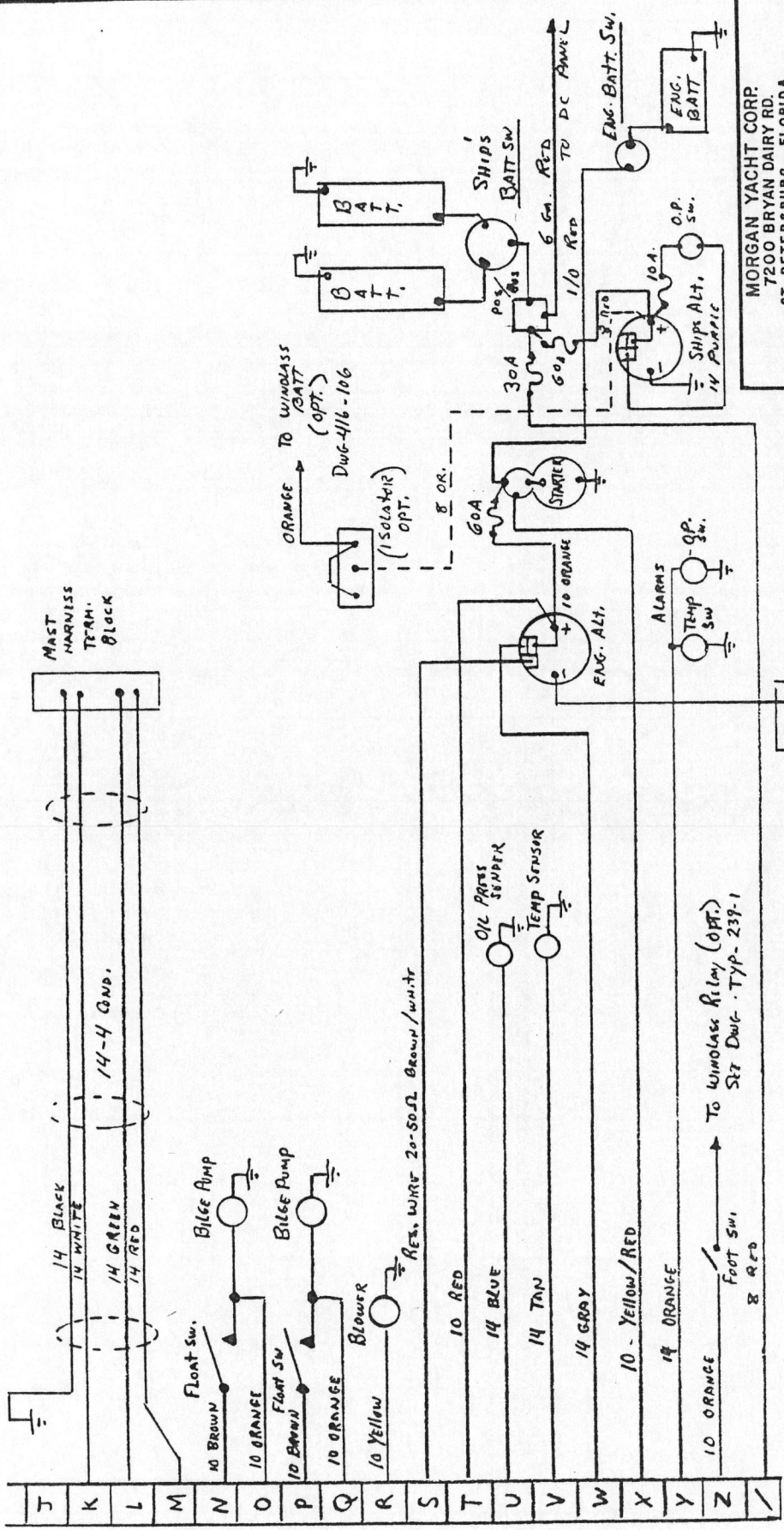
ENGINEER: J. K. RAY - 4/16

DESIGNED BY: [Signature]  
DRAWN BY: [Signature]  
CHECKED BY: [Signature]  
APPROVED BY: [Signature]

DATE: 11-17-60  
SCALE: 4/16-203



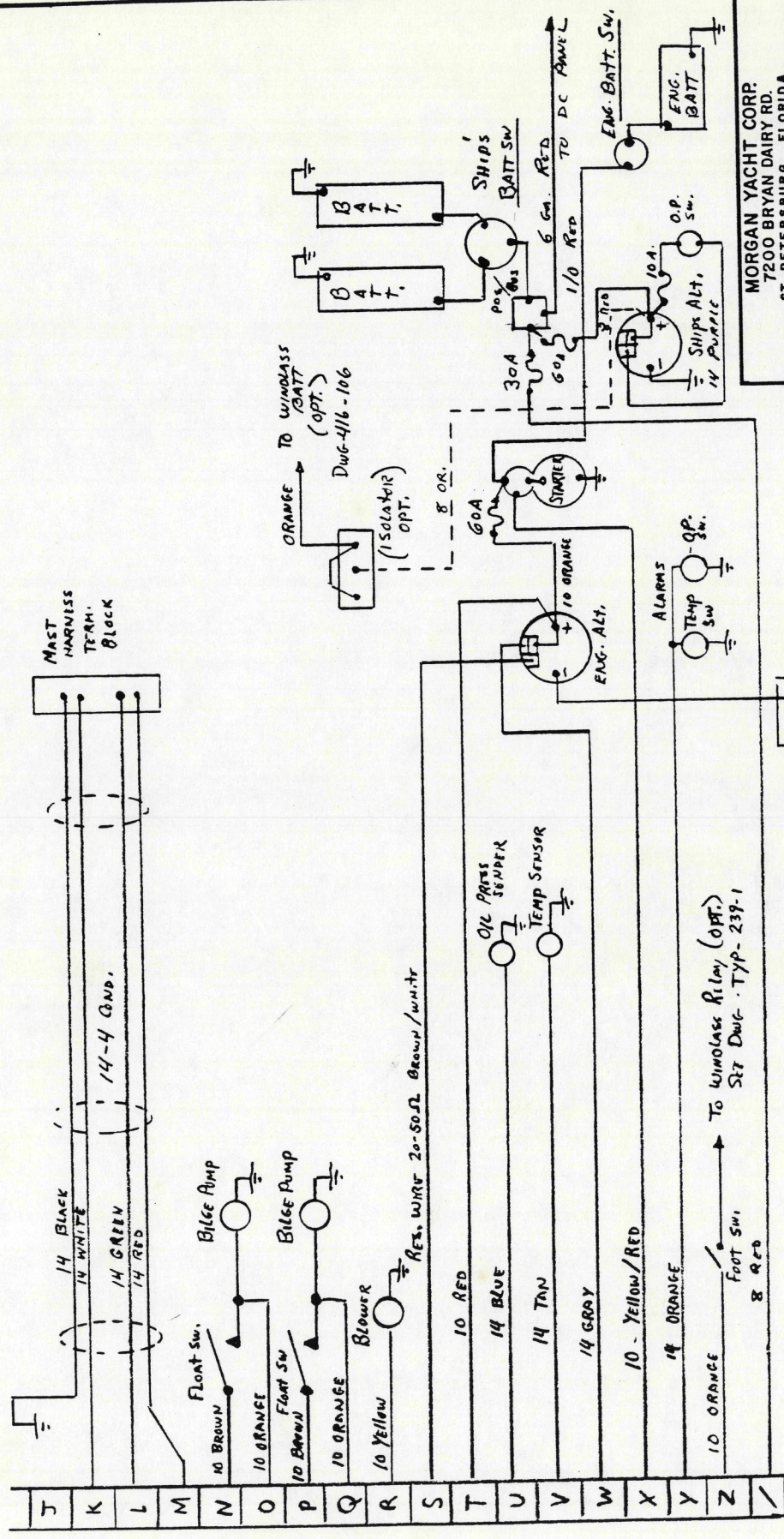
NO.	REVISION	DATE



MORGAN YACHT CORP. 7200 BRYAN DAIRY RD. ST. PETERSBURG, FLORIDA	
ENGINE Wiring - Dual Alternators	
DESIGNED BY	DATE 11-23-81
DRAWN BY	SCALE
CHECKED BY	
APPROVED BY	DRAWING NO. 416-224



NO.	REVISION	DATE



MORGAN YACHT CORP.  
 7200 BRYAN DAIRY RD.  
 ST. PETERSBURG, FLORIDA

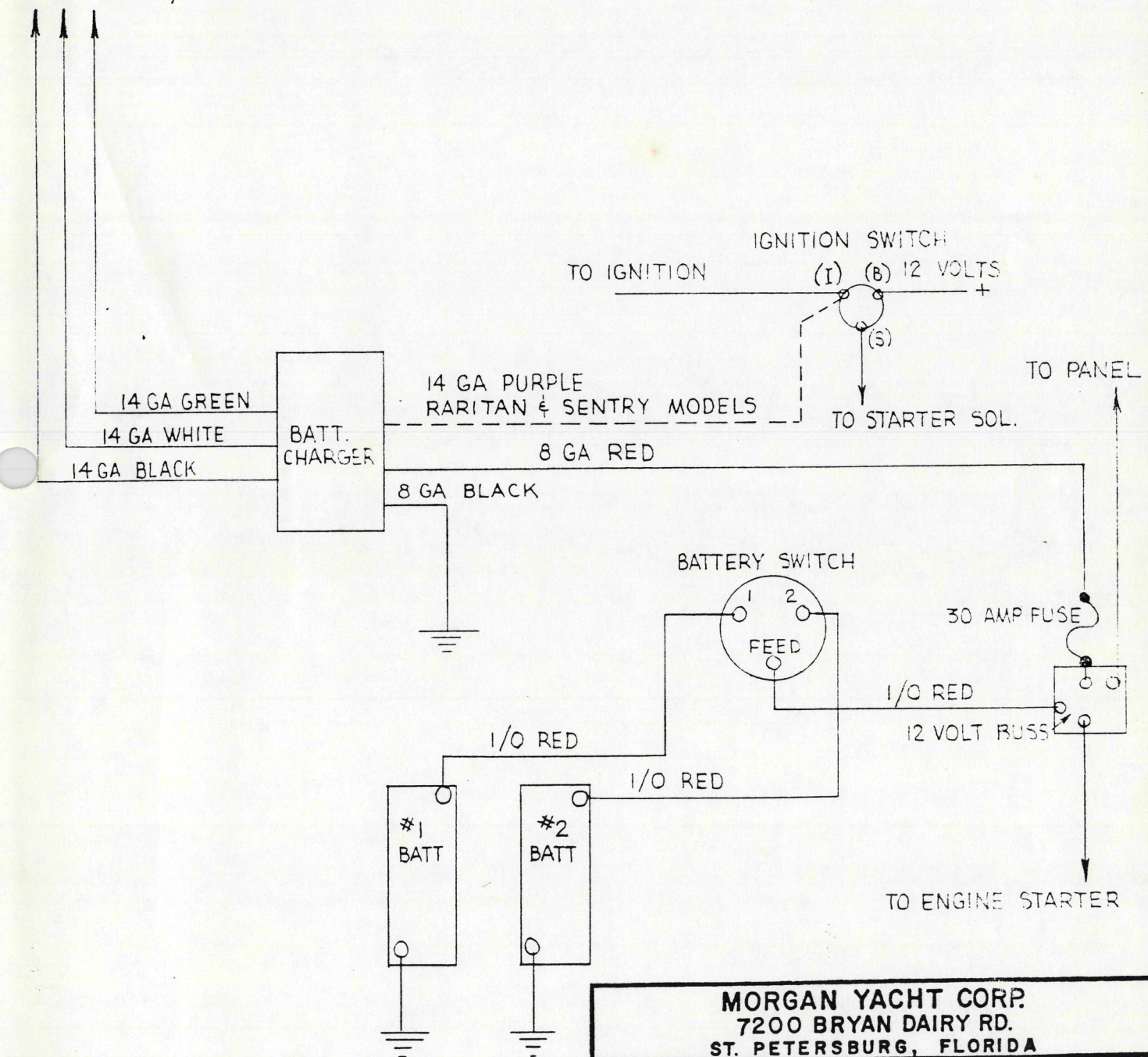
ENGINE WIRING - Dual Alternators

DESIGNED BY: [Signature]  
 DRAWING NO: 416-224  
 DATE: 11-23-51  
 CHECKED BY: [Signature]  
 SCALE: [Blank]

APPROVED BY: [Signature]



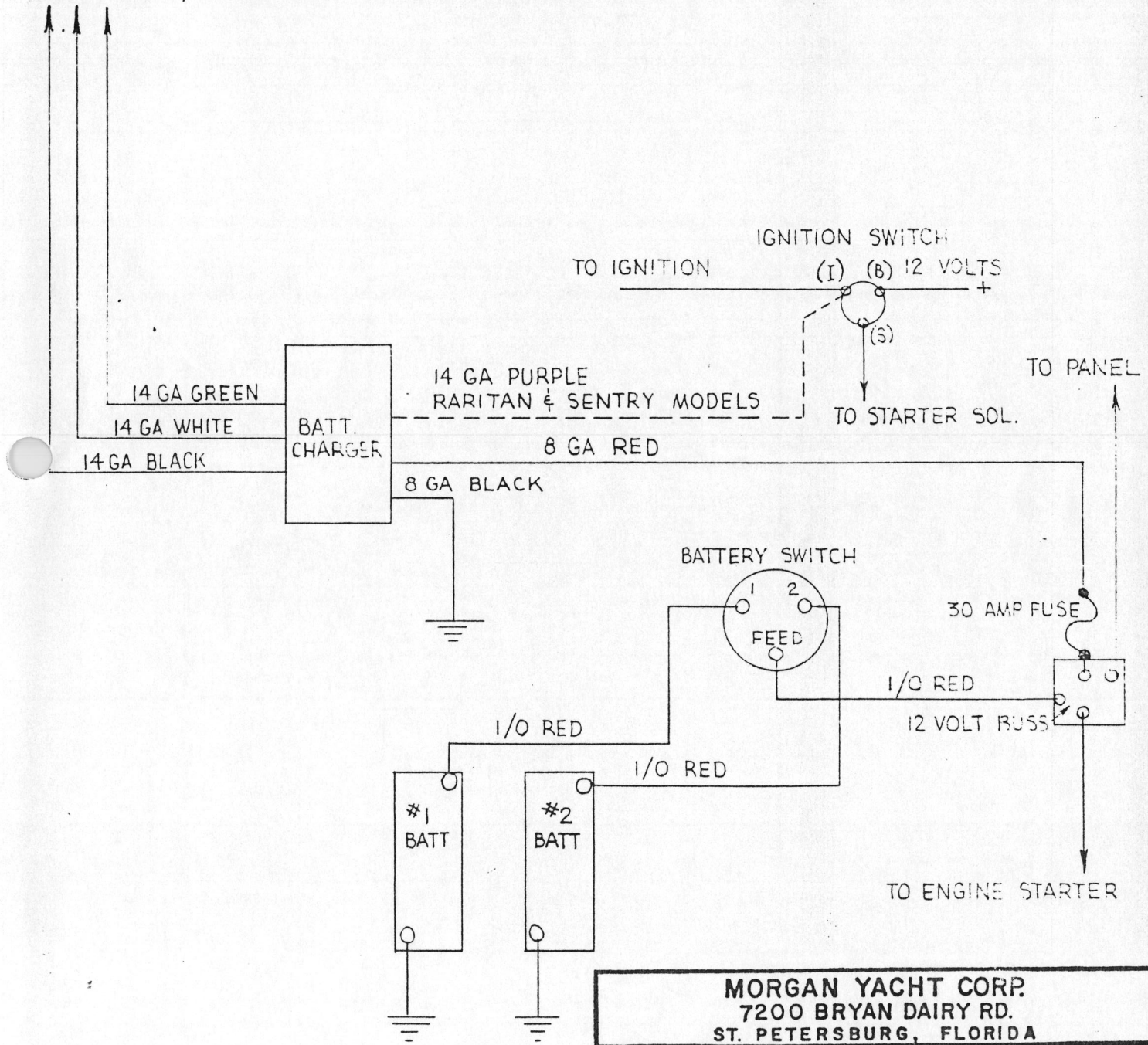
TO 15 AMP A/C BREAKER



<b>MORGAN YACHT CORP.</b> 7200 BRYAN DAIRY RD. ST. PETERSBURG, FLORIDA		
TYPICAL BATTERY CHARGER CIRCUIT		
DESIGNED BY ED KRAUSE	DATE 4-22-80	DRAWING NO. TYP 120-1
DRAWN BY LAF REID	SCALE	
CHECKED BY		
APPROVED BY		



TO 15 AMP A/C BREAKER

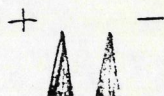


<b>MORGAN YACHT CORP.</b> 7200 BRYAN DAIRY RD. ST. PETERSBURG, FLORIDA		
TYPICAL BATTERY CHARGER CIRCUIT		
DESIGNED BY ED KRAUSE	DATE 4-22-80	DRAWING NO. TYP 120-1
DRAWN BY LAF REID	SCALE	
CHECKED BY		
APPROVED BY		



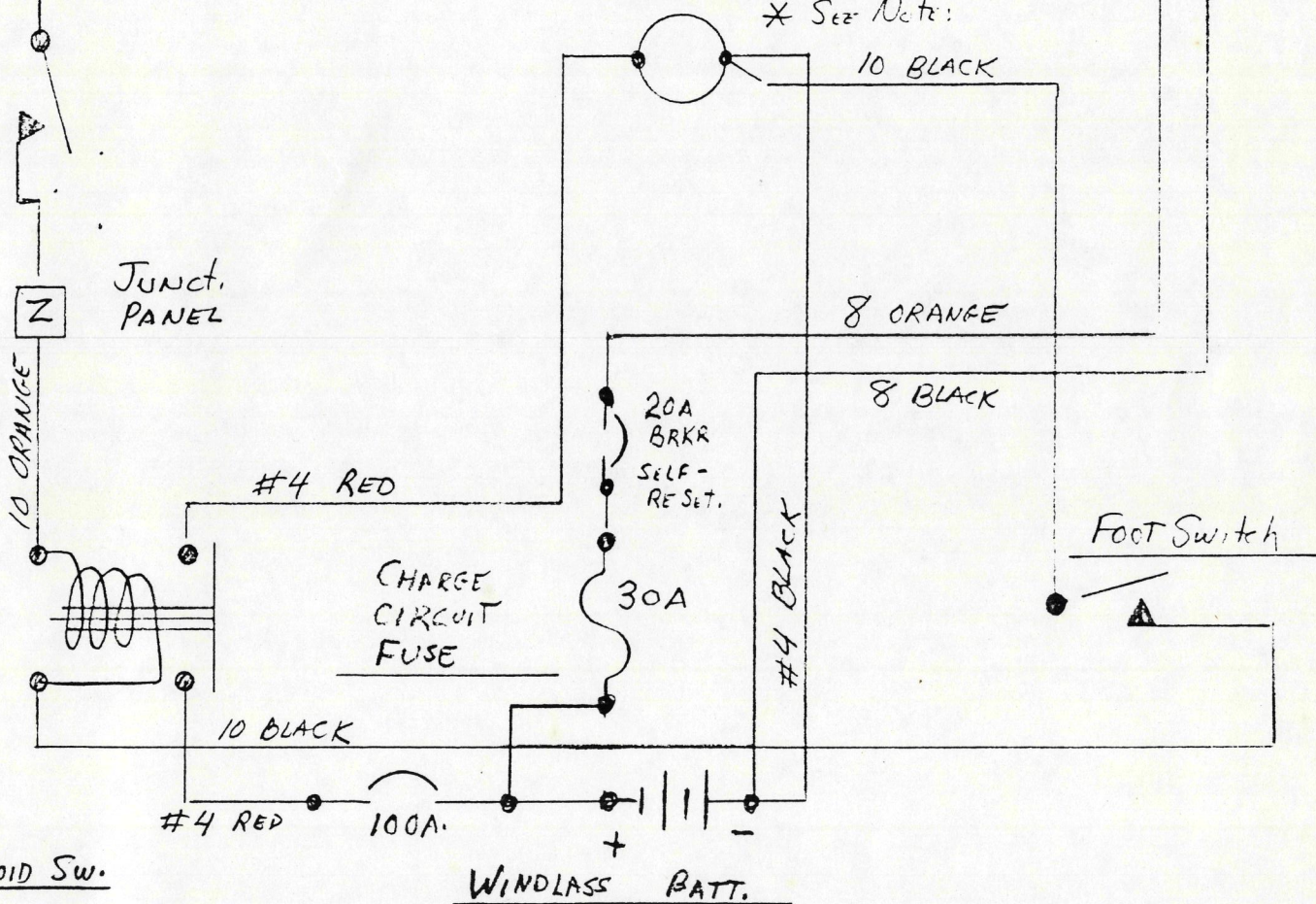
+12V. PEDESTAL FUSE PANEL  
7.5amp

TO BATT. CHARGER



WINDLASS MOTOR

\* See Note:



SOLENOID SW.

WINDLASS BATT.

Note:

WINDLASS BASE IS GROUND (NEG)  
(IDEAL WINDLASS)

--U--

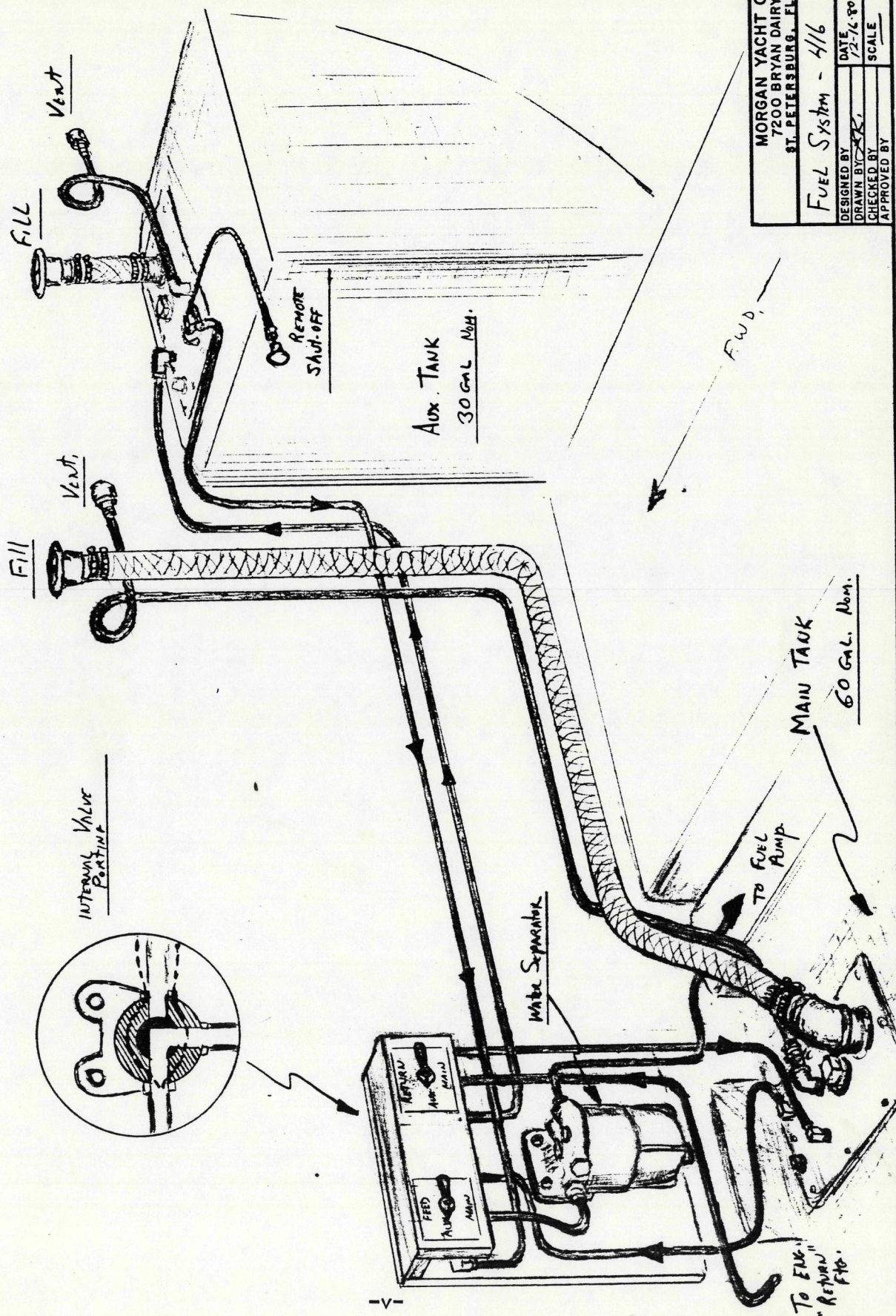
MORGAN YACHT CORP.  
7200 BRYAN DAIRY RD.  
ST. PETERSBURG, FLORIDA

WINDLASS CIRCUIT - 416

DESIGNED BY	DATE	DRAWING NO.
DRAWN BY <i>JR</i>	12-3-80	416-106
CHECKED BY	SCALE	
APPROVED BY		



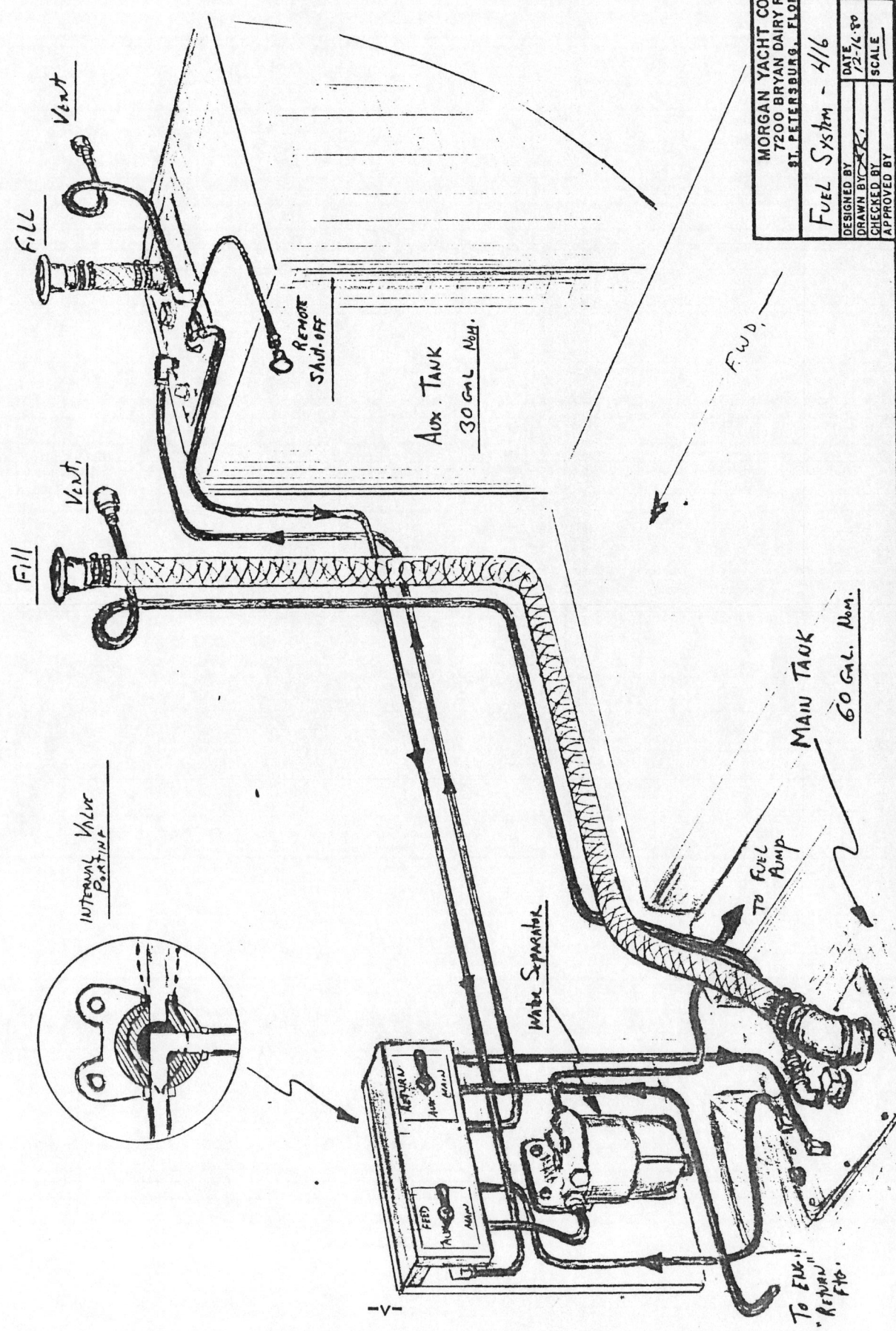
NO.	REVISION	DATE



MORGAN YACHT CORP. 7200 BRYAN DAIRY RD. ST. PETERSBURG, FLORIDA	
FUEL System - 416	
DESIGNED BY	DATE
DRAWN BY	7/2-1/4-80
CHECKED BY	SCALE
APPROVED BY	DRAWING NO.
	416-213



NO.	REVISION	DATE

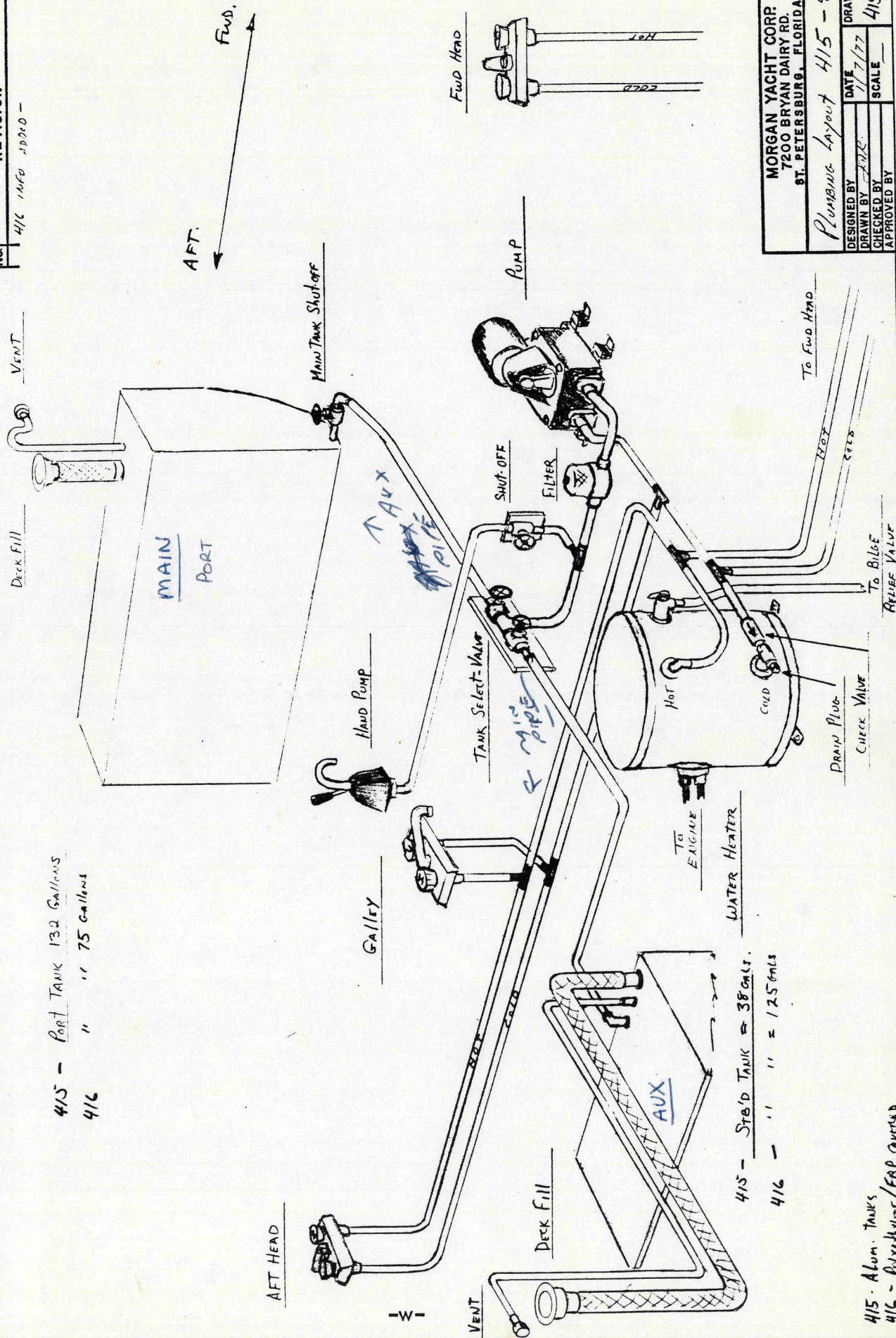


MORGAN YACHT CORP. 7200 BRYAN DAIRY RD. ST. PETERSBURG, FLORIDA	
FUEL System - 4/16	
DESIGNED BY	DRAWING NO.
DRAWN BY <i>CR</i>	72-74-80
CHECKED BY	SCALE
APPROVED BY	416-213



# WATER TANKS

NO.	416 INFO 10000-	REVISION	DATE
			12/80



415 - Port Tank 130 Gallons  
 416 - " " 75 Gallons

415 - Starboard Tank = 38 Gallons.  
 416 - " " = 125 Gallons

MORGAN YACHT CORP. 7200 BRYAN DAIRY RD. ST. PETERSBURG, FLORIDA	
DESIGNED BY	DATE
DRAWN BY	1/7/77
CHECKED BY	SCALE
APPROVED BY	
Plumbing Layout 415-416	
DRAWING NO. 415-216S	

415 - Alum. Tanks  
 416 - Polyethylene/FRP covered



NO.	REVISION	DATE
	416 INFO 50000 -	12/90

Deck Fill  
Vent

415 - Port Tank 132 Gallons  
416 - " " 75 Gallons

AFT. ←  
→ FWD.

AFT HEAD

Main Tank Shut-off

Hand Pump

GALLEY

VENT

Fwd Head

Pump

SHUT-OFF  
FILTER

TANK SELECT-VALVE

TO ENGINE  
WATER HEATER

WATER HEATER

415 - Starboard Tank = 38 Gal.  
416 - " " = 125 Gal.

To Fwd Head

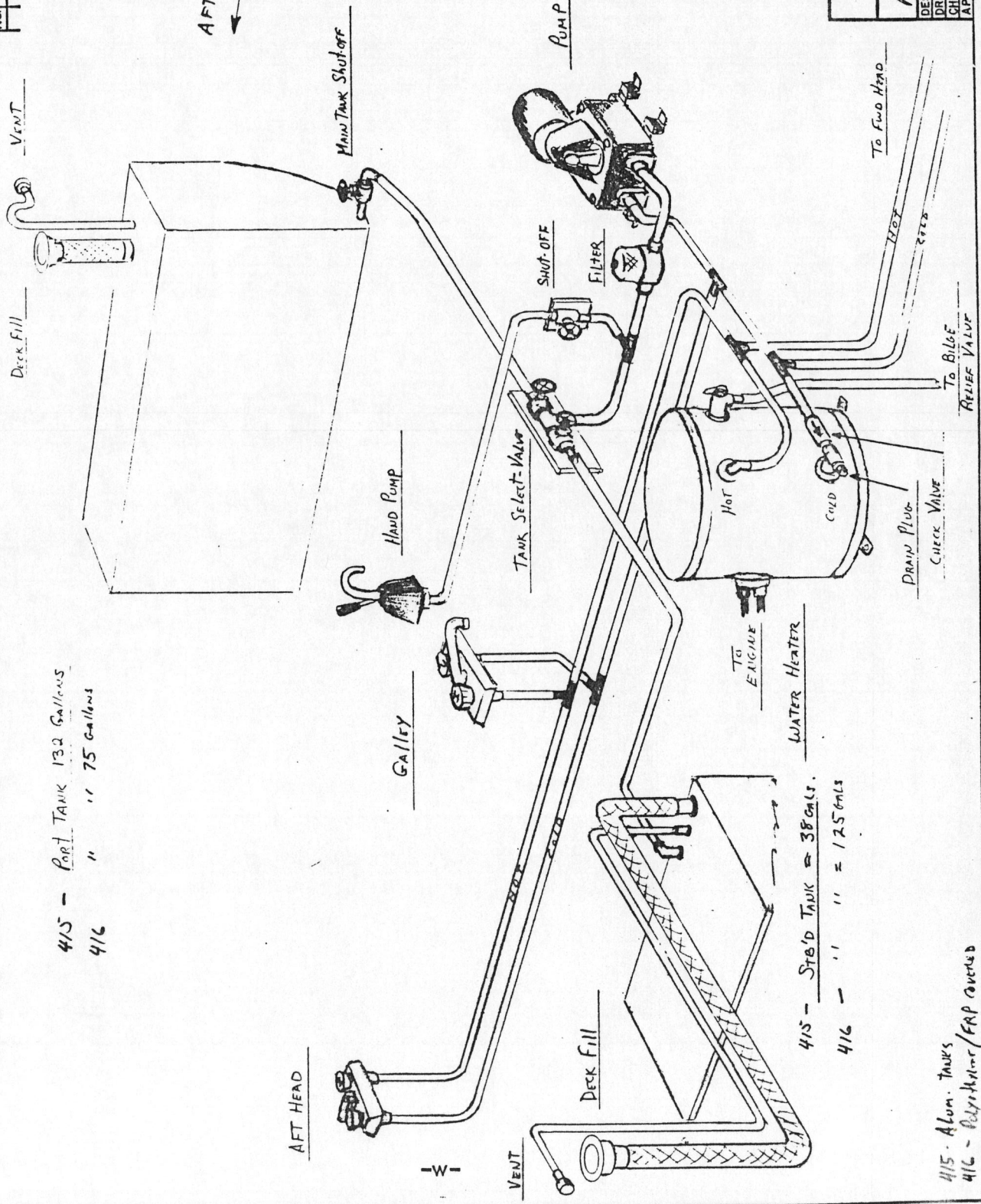
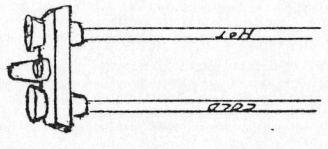
TO BILGE  
RELIEF VALVE

Check Valve

Drain Plug

Hot

Cold



MORGAN YACHT CORP. 7200 BRYAN DAIRY RD. ST. PETERSBURG, FLORIDA		DESIGNED BY	DRAWING NO.
Plumbing Layout 415-416		DATE 1/7/77	415-2165
		CHECKED BY	SCALE
		APPROVED BY	

415 - Alum. Tanks  
416 - Polyethylene / FRP covered

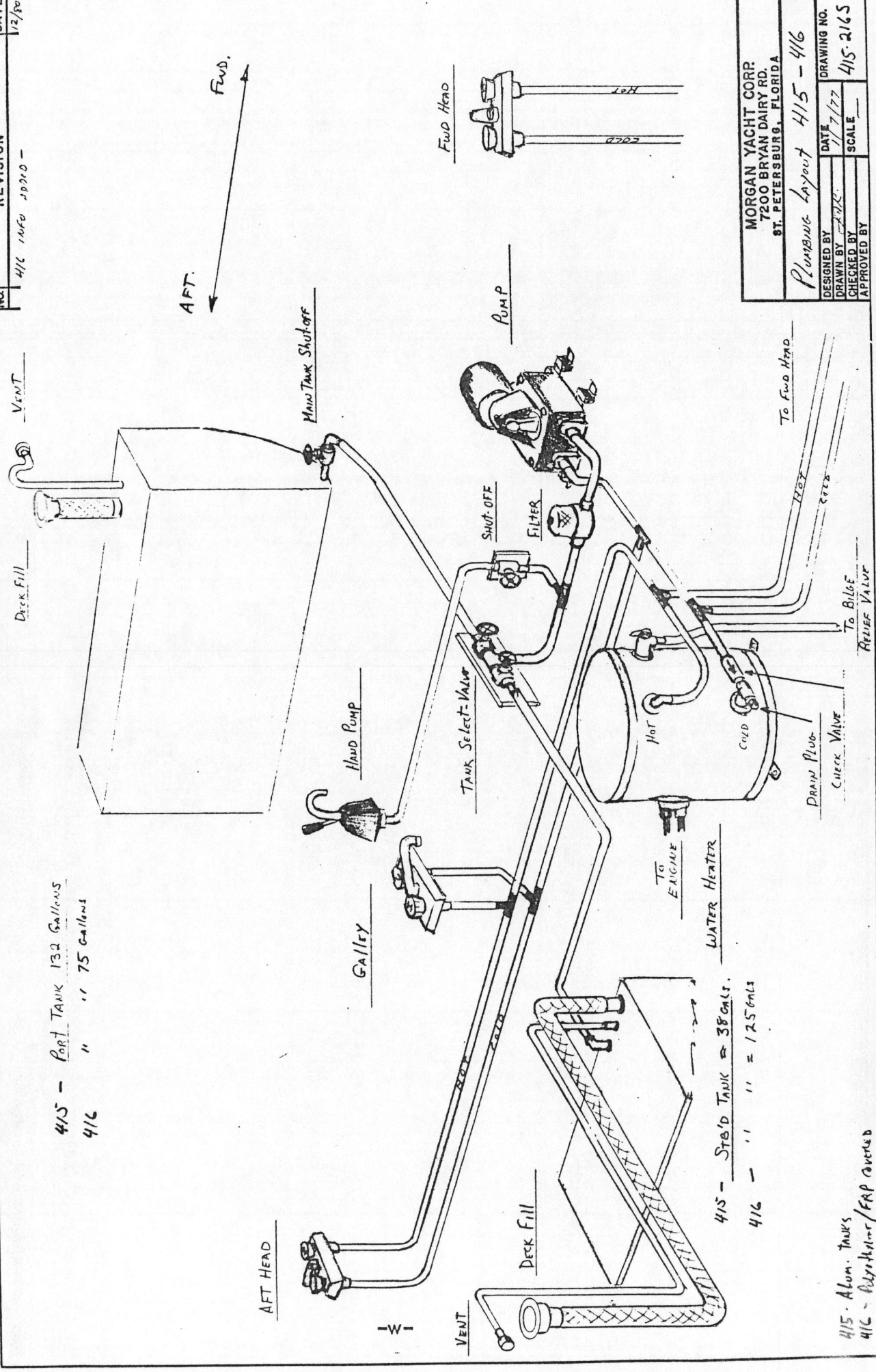


NO.	416	REVISION	416 info 30200-	DATE	12/50
				DESIGNED BY	DATE
				DRAWN BY	1/7/77
				CHECKED BY	SCALE
				APPROVED BY	

MORGAN YACHT CORP.  
7200 BRYAN DAIRY RD.  
ST. PETERSBURG, FLORIDA

Plumbing layout 415-416

DRAWING NO.	415-2165
-------------	----------



415 - Port Tank 132 Gallons  
416 - " " 75 Gallons

415 - STD TANK = 38 GALS.  
416 - " " = 125 GALS.

415 - Alum. Tanks  
416 - Polythene/FAP covered



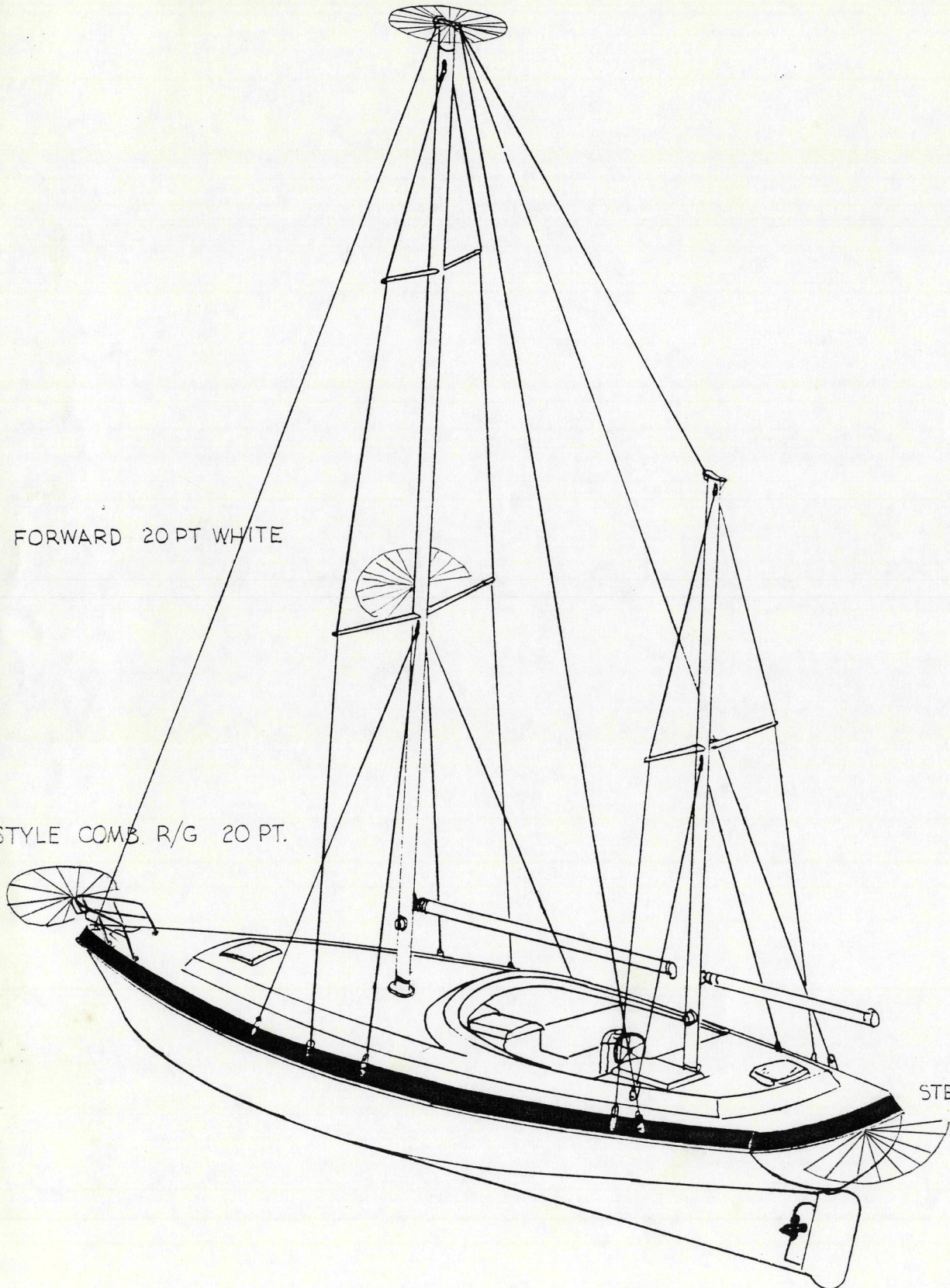
MASTHEAD ANCHOR LIGHT 32 PT. WHITE

FORWARD 20 PT WHITE

EURO STYLE COMB. R/G 20 PT.

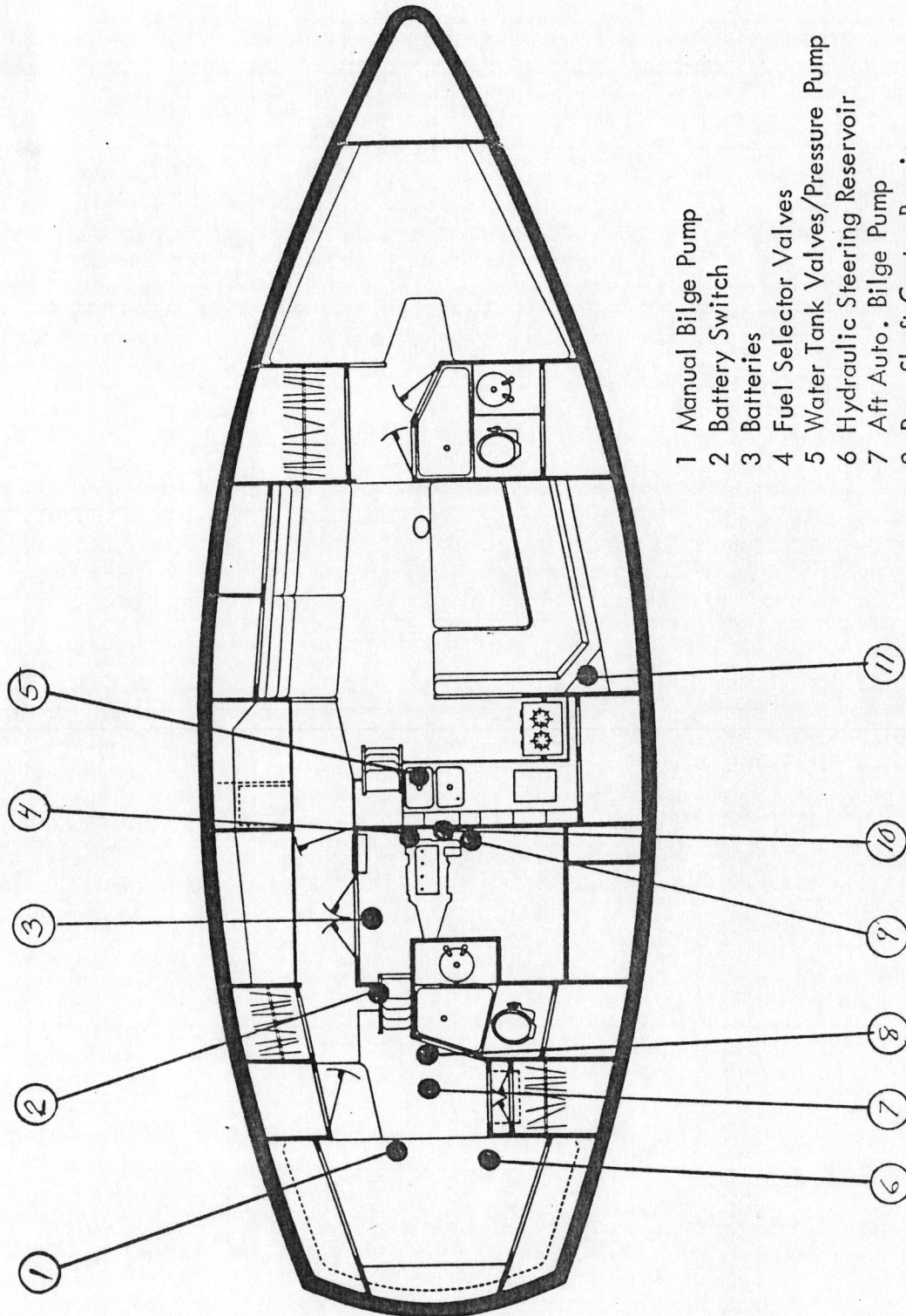
STERN 12 PT. WHITE

NAVIGATION LIGHTS





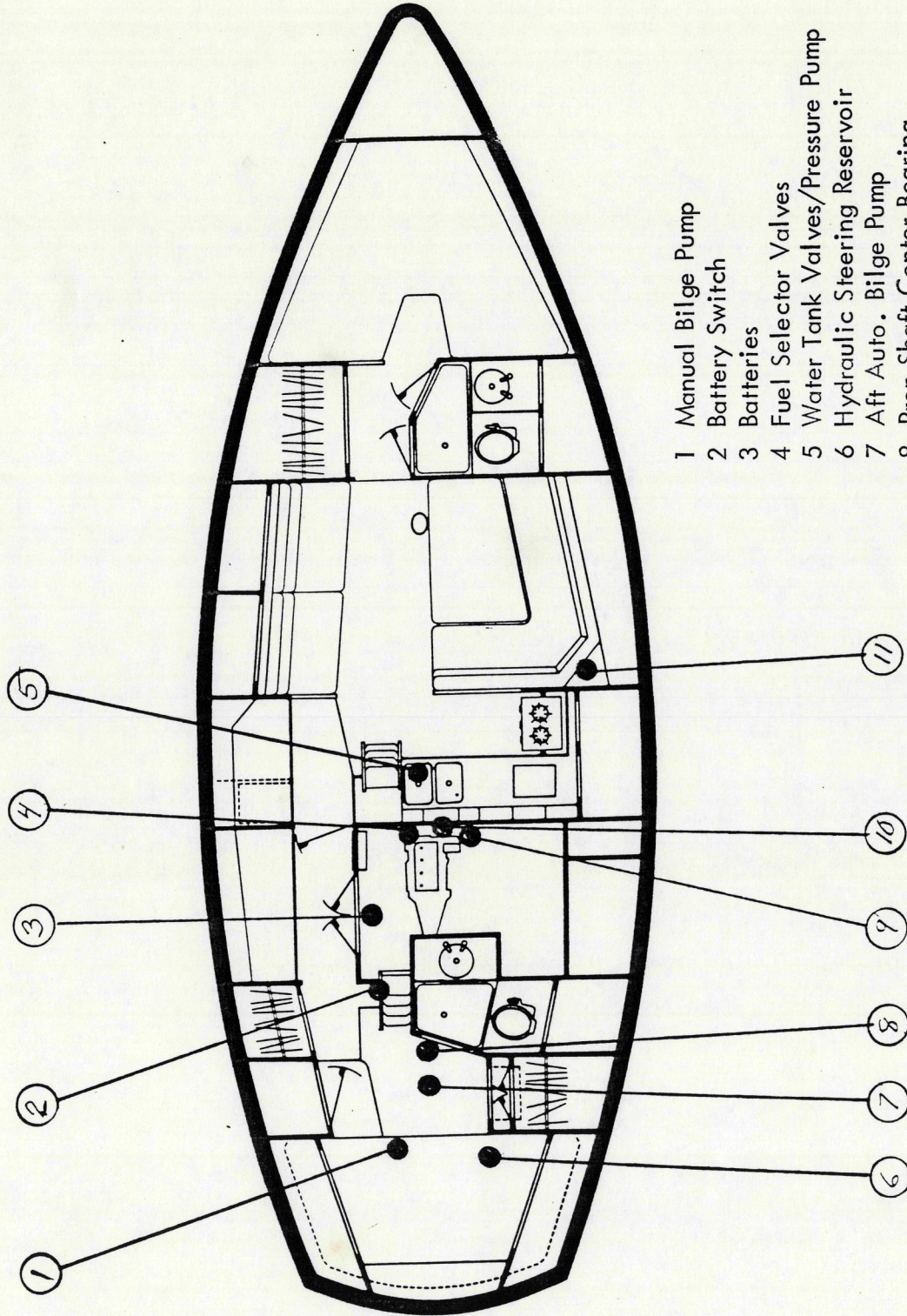
416 LOCATOR CHART



- 1 Manual Bilge Pump
- 2 Battery Switch
- 3 Batteries
- 4 Fuel Selector Valves
- 5 Water Tank Valves/Pressure Pump
- 6 Hydraulic Steering Reservoir
- 7 Aft Auto. Bilge Pump
- 8 Prop Shaft Center Bearing
- 9 Forward Auto. Bilge Pump
- 10 Main Breaker/Shore Power 110 v. AC
- 11 Alcohol Tank



416 LOCATOR CHART



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416 JUNCTION PANEL TERMINAL IDENTIFICATION

D.C.

A-P - Cabin Lights Port  
 A-S - Cabin Lights Starboard  
 B - Pressure Water  
 C - Shower FWD  
 D - Shower AFT  
 E - Spare  
 F - Spare  
 G - Spare  
 H - Spare  
 I - Spare  
 J - Running Lights  
 K - Bow Light  
 L - Foredeck Light  
 M - Masthead Light  
 N - Bilge Pump (Auto)  
 O - Bilge Pump (Manual)  
 P - Bilge Pump (Auto)  
 Q - Bilge Pump (Manual)  
 R - Blower  
 S - Ignition  
 T - Battery  
 U - Oil Pressure  
 V - Temperature  
 W - Tachometer  
 X - Starter  
 Y - Alarm  
 Z - Windlass Control

A.C.

1 - Receptacles-Port  
 2 - Receptacles-Starboard  
 3 - Water Heater  
 4 - Battery Charger  
 5 - Range  
 6 - Air Conditioner  
 7 - Air Conditioner  
 8 - Spare  
 9 - Spare  
 10 - Spare  
 11 - Spare  
 12 - Spare  
 13 - GEN-Pre-Heat  
 14 - GEN-Stop  
 15 - GEN-Start  
 16 - GEN-Ground  
 17 - GEN-Blower Solenoid



## TABLE OF FUSES AND BULBS

## Fuses used in Out Island 416:

		<u>Location</u>
Running Lights	10 amp	Pedestal Fuse Panel
Bow Light	2 amp	" " "
Foredeck Light	2 amp	" " "
Masthead Light	7.5 amp	" " "
Bilge Pumps	10 amp	" " "
Blower	10 amp	" " "
Instrument Lights	7.5 amp	" " "
Compass	2 amp	" " "
Alarm	2 amp	" " "
Windlass Control	7.5 amp	" " "
Engine Charging Circuit	60 amp	At Starter
Battery Charger Connection	60 amp	At Battery Switch
Optional "Windlass" Charter Circuit	30 amp	At Windlass Battery

## Lights used in Out Island 416:

Instruments	W-ST (12 v)
Tachometer	GE-16100 (12 v)
Bow Light	12V 6CP (GE#90)
Foredeck Light	T 3606 E
Masthead Light	(12 v) GE#90
Stern Light	10 watt - PB210 (RZP-10-12)
Running Light Combination	25 watt - PB225 (RZP-25-12)
Chart Table Light	T3 1/4 #1487
	Rival 12V 6W
High Intensity Reading Light	W1383 (12 v)
Small Guest Light	W1142 (12 v)
Large Guest Light	25 watt 12 v
Single Rectangular Light	#93 (12 v)
Double Rectangular Light	#93 (12 v)
Xantech 12" Rectangular Light	GE-211-2-12 v.
Engine Room Light	GE #90 12 v 6 CP



U.S. Coast Guard requirements for distress signals follows on page cc.

Recommendations by ABYC and boating manuals may be more strenuous, and should be followed at the owner's option.

The yachtsman should become totally familiar with the "Rules of the Road" for his particular area. We suggest a publication like, "Piloting Seamanship and Small Boat Handling" by Chapman, for additional recommended equipment, their proper use, and conditions of operation.



## REQUIRED SAFETY EQUIPMENT

The yacht owner should reference the U.S. Coast Guard and/or the controlling body and codes for his area of operation. The following information is listed for your convenience, but should not be misconstrued as complete:

### Navigation Lights

Per U.S.C.G. International rules, Inland rules, or governing codes for operational area.

### Life Preservers

Shall be of approved type. Class 3 vessels (Out Island 41), if not carrying passengers for hire, shall carry an approved life preserver (Type I, II, or III) for each person on board plus one Type IV (buoyant cushion, life ring buoy, or throwable special purpose water safety buoyant device) available to be thrown. Storage of the above equipment shall be so placed as to be readily accessible. Note: Work vests (Type V) are not acceptable as part of the above requirements.

### Fire Extinguishing Equipment

Shall be of an approved type. The Class 3 vessel requires three Type B-I extinguishers (1 $\frac{1}{4}$  gals.-foam; 4 lbs.-carbon dioxide; or 2 lbs.-dry chemical), or one Type B-I plus one Type B-II (2 $\frac{1}{2}$  gals.-foam; 15 lbs.-carbon dioxide; or 10 lbs. dry chemical) extinguishers; if the vessel has no fixed fire extinguishing system in the machinery space. It requires two Type B-I or one Type B-II extinguishers if a fixed fire extinguishing system is installed in the machinery space.

### Ventilation

Ventilation of machinery spaces containing the engine and/or tanks shall be accomplished with a minimum of one air intake duct, and one exhaust duct. The exhaust duct shall extend from the atmosphere to the lower portion of the bilge. The intake duct shall be installed so as to extend at least to the midpoint to bilge, below the carburetor intake, and to the atmosphere. The cowls shall be such that displaced fumes cannot be recirculated. The vents should not be closed at any time.

### Whistles

One power operated whistle, capable of producing a blast audible at a distance of at least one mile, and with blasts of at least two seconds duration.

### Bell

If operating in water subject to the rules of the road, you must carry an efficient fog bell.

The above information is taken from the Coast Guard Publication of "Rules and Regulations for Uninspected Vessels", Subchapter C, May 1, 1970, Ref. CG-258, reflecting the minimums.



U.S. COAST GUARD  
VISUAL DISTRESS SIGNAL REQUIREMENTS

1. AFTER 31 DECEMBER 1980, ALL VESSELS 16 FT. AND OVER AND VESSELS CARRYING SIX OR LESS PASSENGERS FOR HIRE MUST CARRY USCG APPROVED VISUAL DISTRESS SIGNALS FOR BOTH DAY AND NIGHT USE, SELECTED FROM AN APPROVED LIST. VESSELS LESS THAN 16 FT. NEED ONLY TO CARRY VSD'S SUITABLE FOR NIGHT TIME USE BETWEEN THE HOURS OF SUNSET AND SUNRISE.
2. THE FOLLOWING VESSELS DO NOT HAVE TO COMPLY WITH THE DAY TIME REQUIREMENTS, BUT WHEN BEING USED BETWEEN THE HOURS OF SUNSET TO SUNRISE MUST HAVE ON BOARD A DEVICE SUITABLE FOR NIGHT USE, SELECTED FROM THE APPROVED LIST AND CARRIED IN THE REQUIRED NUMBER.
  - a. VESSELS COMPETING IN ANY ORGANIZED MARINE PARADE, REGATTA, RACE, OR SIMILAR EVENT.
  - b. ANY MANUALLY PROPELLED VESSEL.
  - c. A VESSEL UNDER 26 FT, OF COMPLETELY OPEN CONSTRUCTION, NOT EQUIPED WITH AN AUXILIARY ENGINE.
3. VESSELS BEING USED ON RIVERS, LESS THAN TWO MILES WIDE NEED NOT COMPLY WITH THESE RULES.
4. VISUAL DISTRESS SIGNAL MUST BE READILY ACCESSABLE.
5. VISUAL DISTRESS SIGNALS MUST BE IN GOOD AND SERVICEABLE CONDITION AND IF SERVICE LIFE IS MARKED ON DEVICE, DATE MUST NOT BE EXPIRED.
6. VISUAL DISTRESS SIGNALS BE USCG APPROVED WITH NUMBERS STARTING WITH 160 OR 161.
7. FLARE PISTOLS MUST ALSO BE USCG APPROVED UNDER APPROVAL NUMBER 160.028.
8. THE FOLLOWING NON-APPROVED PYROTECHNIC DEVICES WILL BE ACCEPTED UNTIL 1 JULY 1982 SO LONG AS THEY REMAIN IN GOOD AND SERVICEABLE CONDITION.
  - a. PYROTECHNIC AERIAL RED FLARES, EITHER HAND-HELD OR PISTOL PROJECTED, FOR "DAY AND NIGHT" SIGNAL REQUIREMENTS.
  - b. PYROTECHNIC HAND-HELD OR FLOATING ORANGE SMOKE, FOR "DAY ONLY" SIGNAL REQUIREMENTS.
  - c. SIGNAL PISTOLA USED TO PROJECT AERIAL FLARES.
9. THE FOLLOWING IS A LIST OF APPROVED DEVICES AND THEIR APPROVAL NUMBERS. APPROVED DEVICES MUST BE CARRIED IN THE REQUIRED NUMBER.

APPROVAL NO.	DEVICE DESCRIPTION	ACCEPTED FOR USE	NO. REQUIRED TO BE CARRIED
160.021	HAND-HELD RED FLARE	DAY/NIGHT	3
160.020	FLOATING ORANGE SMOKE	DAY ONLY	3
160.024	PISTOL PROJECTED PARACHUTE RED FLARE	DAY/NIGHT	3
160.036	HAND-HELD ROCKET-PROPELLED PARACHUTE RED FLARE	DAY/NIGHT	3
160.037	HAND-HELD ORANGE SMOKE	DAY ONLY	3
160.057	FLOATING ORANGE SMOKE	DAY ONLY	3
160.066	RED AERIAL PYROTECHNIC FLARE	DAY/NIGHT	3
160.072	ORANGE DISTRESS FLAG	DAY ONLY	1
161 013	ELECTRIC DISTRESS LIGHT	NIGHT ONLY	1

10. HAND-HELD RED FLARES MUST HAVE A MANUFACTURE DATE OF AFTER OCT. 1980 TO BE ACCEPTED.



## 416 DIP STICK READINGS

### FUEL TANK - MAIN (LOWER)

Full	=	60 gallons	=	18-3/4"
3/4	=	45 gallons	=	15-1/2"
1/2	=	30 gallons	=	11-1/2"
1/4	=	15 gallons	=	7-1/2"

### FUEL TANK - AUX. (STARBOARD)

Full	=	40 gallons	=	36"
3/4	=	30 gallons	=	28-1/2"
1/2	=	20 gallons	=	20-1/2"
1/4	=	10 gallons	=	12"

H<sub>2</sub>O

48" FROM

DECK FILL

### WATER TANK (PORT)

Full	=	75 gallons	=	22"
3/4	=	56-1/4 gallons	=	17-1/2"
1/2	=	37-1/2 gallons	=	12-1/2"
1/4	=	18-3/4 gallons	=	7"

### WATER TANK (STARBOARD)

Full	=	125 gallons	=	36"
3/4	=	93-3/4 gallons	=	29"
1/2	=	62-1/2 gallons	=	21-1/2"
1/4	=	31-1/4 gallons	=	12-1/2"

Due to the locations and fill locations of some of the tanks, a flexible, retractable tape measure is recommended for measuring the level of the fuel and water. Remember to use a separate tape measure for fuel and water so as not to contaminate the respective tanks. For convenience, you may wish to mark your tapes in accordance with the dimensions given above.