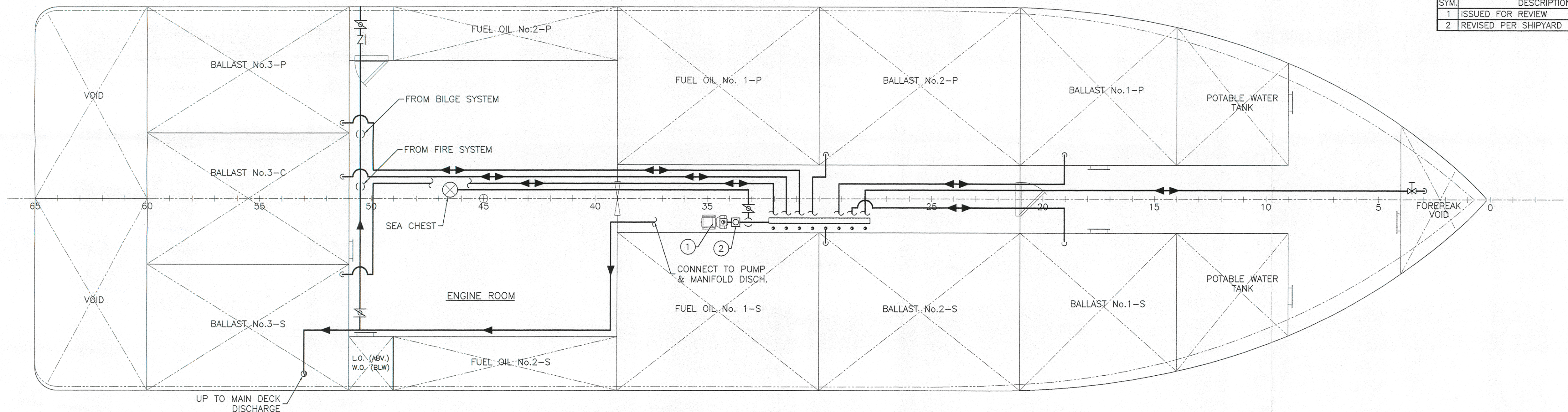


REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED
1	ISSUED FOR REVIEW	10/28/03	
2	REVISED PER SHIPYARD COMMENTS	11/5/03	



HOLD PLAN

SYMBOLS LIST

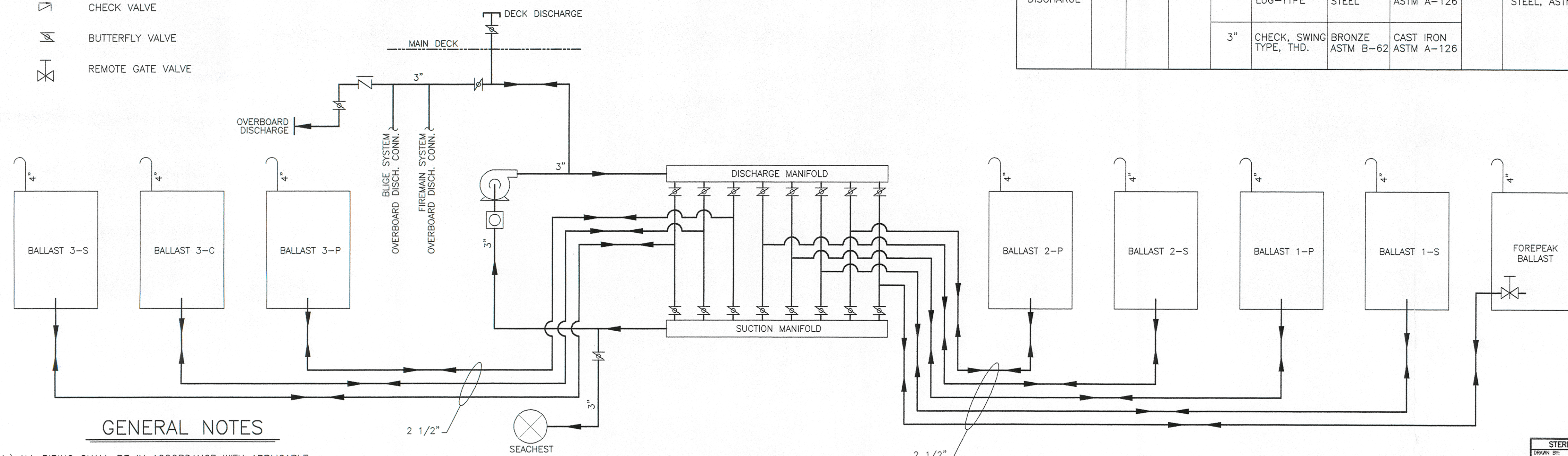
- VENT
- SELF-PRIMING CENTRIFUGAL PUMP
- SIMPLEX STRAINER
- VACUUM GAUGE
- GATE VALVE
- CHECK VALVE
- BUTTERFLY VALVE
- REMOTE GATE VALVE

EQUIPMENT LIST

ITEM NO.	QTY.	DESCRIPTION	MODEL NO.
1	1	SELF-PRIMING CENTRIFUGAL PUMP, 3"x3", 480V, 3-PH, 15 HP, 1750 RPM, TEFC MOTOR CAPABLE OF 150 GPM @ 50' HEAD	BARNES MODEL 15CC
2	1	3" SIMPLEX STRAINER	-

PIPING MATERIAL SCHEDULE

SYSTEM	SYSTEM CONDITIONS			VALVES			PIPE		FITTINGS	
	TEMP.	MAX. PRESS.	OPER. PRESS.	SIZE	TYPE	TRIM	SIZE	MATERIAL SPECIFICATIONS	TYPE	MATERIAL SPECIFICATIONS
BALLAST SUCTION & DISCHARGE	AMB	60	40	ALL	BUTTERFLY, LUG-TYPE	STAINLESS STEEL	CAST IRON ASTM A-126	SCH 40, SMLS BLK STEEL, ASTM A-106 GR.B	FLG.	F.S. ASTM A-105 GR.II 150lb. S.O., R.F.
				ALL	CHECK, SWING TYPE, THD.	BRONZE ASTM B-62	CAST IRON ASTM A-126		UNION	F.S. SOCKET WELD, ASTM A-105, GR.II, 3000lb. M95-SP-83
				2 1/2"	GATE, NON-RISING STEM THD.	BRONZE ASTM B-62	CAST IRON ASTM A-126			
OVERBOARD DISCHARGE	AMB	60	40	3"	BUTTERFLY, LUG-TYPE	STAINLESS STEEL	CAST IRON ASTM A-126	SCH 80, SMLS BLK STEEL, ASTM A-106 GR.B		
				3"	CHECK, SWING TYPE, THD.	BRONZE ASTM B-62	CAST IRON ASTM A-126			



GENERAL NOTES

- 1.) ALL PIPING SHALL BE IN ACCORDANCE WITH APPLICABLE ABS & USCG REGULATIONS PER CONTRACT SPECIFICATIONS.
- 2.) PIPING SHALL BE PROPERLY SUPPORTED AND BE ARRANGED SUCH THAT IT IS NOT NORMALLY USED AS A STEP OR RAIL.
- 3.) DECK AND BULKHEAD PENETRATIONS SHALL BE REINFORCED WITH DOUBLER PLATES IN ACCORDANCE WITH ABS RULES.

BALLAST SYSTEM SCHEMATIC

STERLING MARINE, LTD. DRAWN BY: R. F. DWYER CHECKED BY: T. CARVER APPROVED BY: [Signature] DATE: 28 OCT 2003		STERLING MARINE, LTD. 1150 SHADY LANE GULF BREEZE, FL 32563 136 FT. OFFSHORE SUPPLY VESSEL (LoFORCE SHIPYARD, INC. - HULL 137/138) BALLAST SYSTEM	
NO.	TITLE	DWG. NO.	LoFORCE
REFERENCES			
THIS DRAWING, DESIGN, CONCEPT AND SPECIFICATIONS ARE THE PROPERTY OF STERLING MARINE, LTD. AND ARE FURNISHED ON A CONFIDENTIAL BASIS WITH AN EXPRESSED UNDERSTANDING THAT THEY WILL NOT BE COPIED IN ANY MANNER, USED FOR MANUFACTURE, SOLD, TRANSFERRED NOR USED TO THE DETRIMENT OF SAID COMPANY WITHOUT WRITTEN PERMISSION.			
DATE:	SIZE	PROJECT NO.	DWG. NO.
	D	-	137-C660-02
	SCALE: 3/16" = 1'-0"	SHEET	1 OF 1