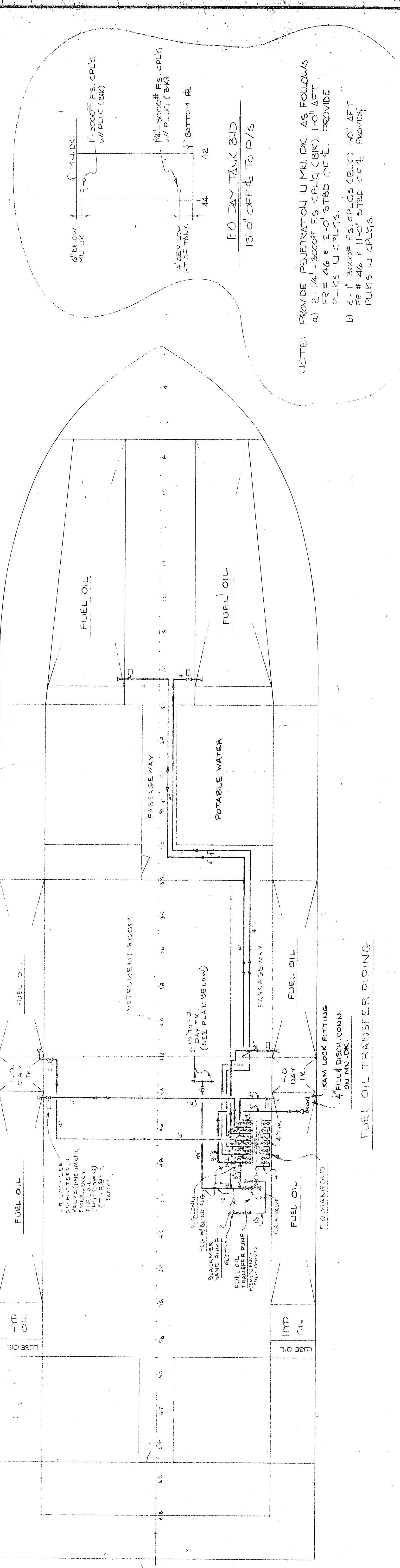


REV	DATE	DESCRIPTION
1	12/15/01	ISSUED FOR CONSTRUCTION
2	01/15/02	REVISIONS TO PIPING
3	02/15/02	REVISIONS TO PIPING
4	03/15/02	REVISIONS TO PIPING
5	04/15/02	REVISIONS TO PIPING
6	05/15/02	REVISIONS TO PIPING
7	06/15/02	REVISIONS TO PIPING
8	07/15/02	REVISIONS TO PIPING
9	08/15/02	REVISIONS TO PIPING
10	09/15/02	REVISIONS TO PIPING
11	10/15/02	REVISIONS TO PIPING
12	11/15/02	REVISIONS TO PIPING



NOTE: PROVIDE PENETRATION IN M.I. DK AS FOLLOWS
 a) 2-1/4" - 3000# FS. CPLG. (B.K) 1'-0" AFT
 PR # 46 & 12'-0" STBD OF C. PROVIDE
 PLUGS IN CPLGS.
 b) 2-1-3000# FS. CPLGS (B.K) 1'-0" AFT
 PR # 46 & 11'-0" STBD OF C. PROVIDE
 PLUGS IN CPLGS

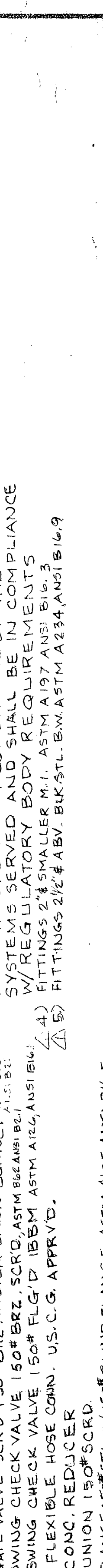


F.O. DAY TANK BID
 13'-0" OFF C. TO P/S

SYMBOLS
 △ BUTTERFLY VALVE 150# STL. (PNEUMATIC EMER. FO.)
 △ BUTTERFLY VALVE 150# STL. (SMALLER SHALL BE SCR'D)
 △ PRESSURE GAUGE & GAUGE COCK
 △ SIMPLEX STRAINER STL. 150# ASTM A216 ANSI B16.5
 △ DUPLEX STRAINER STL. 150# ASTM A216 ANSI B16.5
 △ GATE VALVE FLG'D 150# 18BM ASTM A120 ANSI B16.1
 △ GATE VALVE SCR'D 150# 18BM ASTM A120 ANSI B16.1
 △ SWING CHECK VALVE 150# BRZ. SCR'D. ASTM B88 ANSI B16.5
 △ SWING CHECK VALVE 150# FLG'D 18BM ASTM A120 ANSI B16.1
 △ FLEXIBLE HOSE CONN. - U.S.C.G. APPROVD.
 △ CONC. REDUCER
 △ UNION 150# SCR'D
 △ FLANGE 150# STL. / 150# BLIND FLANGE ASTM A105 ANSI B16.5
 △ CONC. REDUCER 6"x4"

NOTES
 1) PIPE TO BE STL. BLK. SCH. 80 ASTM A53 GR. B ANSI B36.10
 2) FITTINGS & VALVES 2" & SMALLER SHALL BE SCR'D
 UNLESS NOTED FITTINGS 2 1/2" & LARGER SHALL
 BE BUTT WELDED & VALVES 2 1/2" & LARGER SHALL
 BE FITTED W/ VALVES & FLANGES SHALL HAVE
 PRESSURE/TEMPERATURE RATINGS SHALL HAVE
 FOR THE OPERATING CONDITIONS OF THE
 SYSTEM SERVED AND SHALL BE IN COMPLIANCE
 W/ REGULATORY BODY REQUIREMENTS
 3) FITTINGS 2" & SMALLER M.I. ASTM A197 ANSI B16.3
 4) FITTINGS 2 1/2" & ABV. BLK STL. BW ASTM A234 ANSI B16.9
 5) FITTINGS 2 1/2" & ABV. BLK STL. BW ASTM A234 ANSI B16.9

PUMPS
 1) FUEL OIL TRANSFER PUMP - GOULD'S MODEL 3755 2x3.7
 W/ 7/8" DIA. BRZ. IMPELLER, 3HP.
 MOTOR 1750 RPM
 2) FUEL OIL SEPARATOR - WESTFALIA MOD. OTA-700-046
 W/ 3HP. 1800RPM ELECTRIC
 MOTOR
 3) FUEL OIL HAND PUMP - BLACKMER MOD. PA-414
 1/2" & 3/4" TURN/5 GALLON HAND
 PUMP



FUEL OIL SEPARATOR & SERVICE PIPING

DESIGN ASSOCIATES, INC.
 MARINE ENGINEERS
 NEW ORLEANS, LA.
 TIDE WATER MARINE SERVICE
 MISSISSIPPI MARINE TOWER # 90
 43x36x10' SEISMIC VESSEL
 FUEL OIL TRANSFER & FUEL OIL
 SERVICE PIPING DIAGRAM
 Drawn: P.B.B. Date: 11-26-02 Checked: A.L.L.
 Traced: Date: Date: Scale: NONE
 Sheet: 1 of 1 Drawing No. C-2042-0 Revision Mark: A

GN051