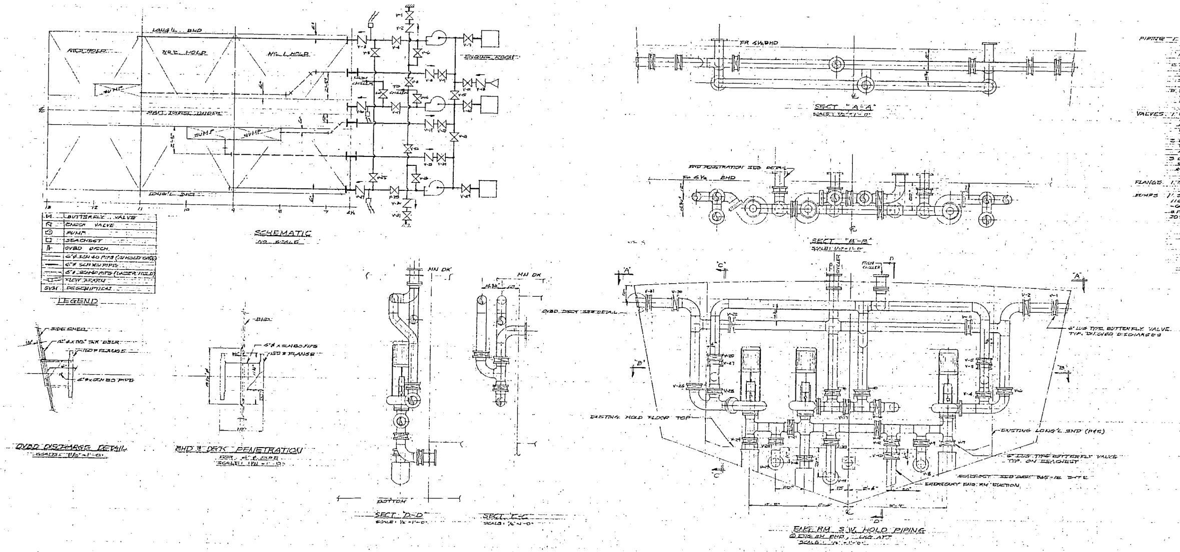

NOTE

PIPING 1. SUCTION PIPING IS TO BE 6" SCH 80 STEEL PIPE ASTM-A53, GRADE "A", THRU DBL BTM., BHD PENETRATIONS AND SEA CHESTS. 6" SCH 40 STEEL PIPE MAY BE USED IN ALL OTHER AREAS.

2. DISCHARGE PIPING IS TO BE 6" SCH 40 STEEL PIPE, ASTM A53, GRADE "A" EXCEPT THRU BHD PENETRATIONS AND OVBD DISCHARGES USE SCH 80 IN LIEU OF SCH 40.

3. WHERE APPLICABLE PIPING IS TO BE FABRICATED IN SECTIONS AND HOT-DIP GALVANIZED PRIOR TO FINAL ASSEMBLY.

VALVES 1. ON SEA CHESTS AND OVBD DISCHARGES USE LUG BODY TYPE BUTTERFLY VALVES - KEYSTONE FIG. 129, DUCTILE IRON BODY, AL-BRONZE DISK, 316 SS. STEM, BUNA-N SEAT, OR EQ.

2. LINE VALVES ARE TO BE WAFER TYPE BUTTERFLY VALVES - KEYSTONE FIG 100, DUCTILE IRON BODY, AL-BRONZE DISK, 316 SS STEM, BUNA-N SEAT, OR EQ.

3. CHECK VALVES ARE TO BE WAFER TYPE, PRINCE SERIES 126, DUCTILE IRON BODY, 316 SS PLATE & ARM, BUNA-N SEAT, OR EQ.

FLANGE 1. 150# STL SLIP-ON OR 150# WELDING NECK

PUMPS 1. S.W. HOLD CIRCULATING PUMPS ARE TO BE RATED AT 1100 GPM @ 30 FT TDH - CRANE DEMING FIG. 4051 - 6M SIZE, 6"x6", 15 HP ELECT MOTOR, 230/460 V, 3 PHASE 1750 RPM, TEFC CHANNEL STL BASE, LOVEJOY L-150 COUPLING - 3 EA

SYM	REVISIONS	BY	DATE
A	ADDED VALVES V-6 & V-26	T.E.	11/6/79

FOR: TONY BERAN

B.F. JENSEN & ASSOCIATES, INC., P.S.
NAVAL ARCHITECTS AND MARINE ENGINEERS
201 SALMON BAY OFFICE BLDG. 4215 21st W SEATTLE, WA 98199

TITLE
92-FT STL FISHING VESSEL
S.W. CIRCULATION SYSTEM

DWN	DATE 8/1/79	DWG NO	REV
CKD	DATE	7198-1501	
APP	DATE		
SCALE AS NOTED		SHT 1 OF 1	

Exhibit 199
Page 35a of 36