

BILL OF MATERIAL

PC QTY	SIZE	DESCRIPTION	COST ITEM	POIN VEND	DATE RECD
1	1/4"	PIPE BLK SMUS SCH 80 ASTM A106 GR A	302		
2	6"	PIPE BLK SMUS SCH 80 ASTM A106 GR A	4		
5	3/4"	FLANGE 1/2" BORE 3/4" GR. A			
4	1/4"	TEE 3000# FS SCR'D ASTM A106 GR II			
5	2"	1500# FS GATE VA. SCR'D			
6	1/4"	BUSHING HEX HEAD			
7	1/4"	PIPE COUPLING 3000# FS SCR'D ASTM A106 GR II			
8	1/2"	BUSHING HEX HEAD			
9	4"	HYD. HOSE 2" O.D. EA.			
10	3/4"	HYD. HOSE 3" O.D. EA.			
11	1/4"	FLANGE 1/2" BORE 3/4" GR. A			
12	1/4"	UNION 3000# FS SCR'D	302		



PLAN -- 3/16" = 1'-0"

ELEVATION -- 3/16" = 1'-0"

- 1- 50 GAL. RESERVOIR
- ALL COMPONENTS MOUNTED ON HYDRAULIC CYLINDERS
- ORFMAN-MILLER SERIES
- 1- 2" BORE X 25" STROKE
- 2- 1/4" BORE X 25" STROKE
- 1- OPERATOR'S CONTROL
- 1- LOCAL LEVEL INDICATOR

- TO BE SUPPLIED BY HUBER, INC.
- CONTRACT PRICE: \$1,200.00
- 3- 1/2" BORE X 25" STROKE
- 1- 2" BORE X 25" STROKE
- 2- 1/4" BORE X 25" STROKE
- 1- OPERATOR'S CONTROL
- 1- LOCAL LEVEL INDICATOR

CALCULATION OF PIPE WALL
 MAX WORKING PRESSURE P = 1500 PSI
 PIPE MAT. : CS. ASTM A106 GR. A
 MIN. WALL THICKNESS $T = PD / 2(S + PY) + A$
 D = 6.0
 S = 17,500
 Y = 0.4 (FOR AMPT. TEMP.)
 A = 0.065 (FOR THREADING)

T = 1500 X 1.0
 T = 2,000 X 1.0

OCT 30 1973

REV.	DESCRIPTION	DATE	BY
1	ISSUED FOR CONSTRUCTION	10/30/73	JH

REVISIONS

U.S. NAVAL SHIP SYSTEMS COMMAND
 WASHINGTON D.C. 20380

OCEANOGRAPHIC RESEARCH SHIP
 AGOR (UTILITY) CLASS

HALTER MARINE SERVICES, INC.
 P.O. BOX 29265 NEW ORLEANS, LA. 70129

SCALE: _____
 DRAWN BY: HALTER
 CHECKED BY: HALTER
 HULL NO.: _____
 JOB NO.: _____
 NAVSHIPS NO.: _____
 REV.: _____