

**NOTES:**

1. WELDING TO BE IN ACCORDANCE WITH AWS D1.2.

| PARTS LIST |     |      |                         |                                       |                  |
|------------|-----|------|-------------------------|---------------------------------------|------------------|
| FIG NO.    | QTY | DATE | PART OR IDENTIFYING NO. | NOMENCLATURE OR DESCRIPTION           | MATERIAL OR NOTE |
| 1          | 1   |      | COMMERCIAL              | 90° ELBOW LONG RADIUS SCH 40          | AL 6061-T6       |
| 2          | 2   |      | COMMERCIAL              | FLANGE, 6", ANSI 150#                 | AL               |
| 3          | 16  |      | COMMERCIAL              | BOLT, HEX HD, 3/4"-10 UNC x 3 1/2" LG | SST              |
| 4          | 16  |      | COMMERCIAL              | NUT, HEX 3/4"-10 UNC                  | SST              |
| 5          | 32  |      | COMMERCIAL              | WASHER, FLG, 3/4" (HWH)               | SST              |
| 6          | 16  |      | COMMERCIAL              | WASHER, SPLIT-LOCK, 3/4" (NOM)        | SST              |
| 7          | 2   |      | COMMERCIAL              | RING GASKET 6"-150# 1/16"K            | BLANK-R          |

GPC - A JOINT VENTURE  
 WILLIAMSBURG, VA  
 757-807-7402

CONSULTANTS  
 DEPARTMENT OF THE NAVY  
 NAVAL SEA SYSTEMS COMMAND  
 WASHINGTON, D.C. 20382  
 SITE LOCATION:  
 WAREHOUSE # 12  
 CHEATHAM AVENUE  
 WILLIAMSBURG, VA  
 23185  
 NWSA DWG NO:  
 70222110

U. S. COAST GUARD  
 OCEAN ENGINEERING DIV.  
 WASHINGTON, DC  
  
 USCG COMDT G-SEC-2  
 2100 2ND STREET SW  
 WASHINGTON, DC 20593-0001

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |
|      |      |             |
|      |      |             |

REFER TO NAVSEA DWG FOR REVISIONS  
 A/E PROJECT NO: N00024-96-D-4107  
 CAD FILE NAME: Z17704001.DWG  
 DESIGNED BY: C. MOFFATT 1/28/00  
 DRAWN BY: R. NAZARETH 1/28/00  
 EDITED BY:  
 CHECKED BY: C. MOFFATT 1/28/00

SCALE: PLOT SCALE 1=1  
 SHEET TITLE  
 VISCOUS OIL PUMPING SYSTEM  
 G-SEC  
 WASHINGTON DC  
 ANSI FLANGE LONG RAD. ELBOW

ASSEMBLY

| REVIEWED BY            | REVIEWED BY  | REVIEWED BY |
|------------------------|--------------|-------------|
| PON                    | BS           | RL          |
|                        |              |             |
| PROJECT ENG.           | BRANCH CHIEF | G-SEC-2     |
| W.P. LAYNE, CAPT, USCG |              | 03/15/01    |
| CHIEF, CIVIL ENG.      |              | DATE        |

| PROJECT NUMBER   | DRAWING NUMBER |
|------------------|----------------|
|                  | 177004         |
| DISCIPLINE/SH/NO |                |
| Z17704001        | SHEET 1 OF 1   |

UNLESS OTHERWISE SPECIFIED:  
 ALL DIMENSIONS ARE IN INCHES.  
 TOLERANCES: DIM: 1/32  
 ANG: .5°

