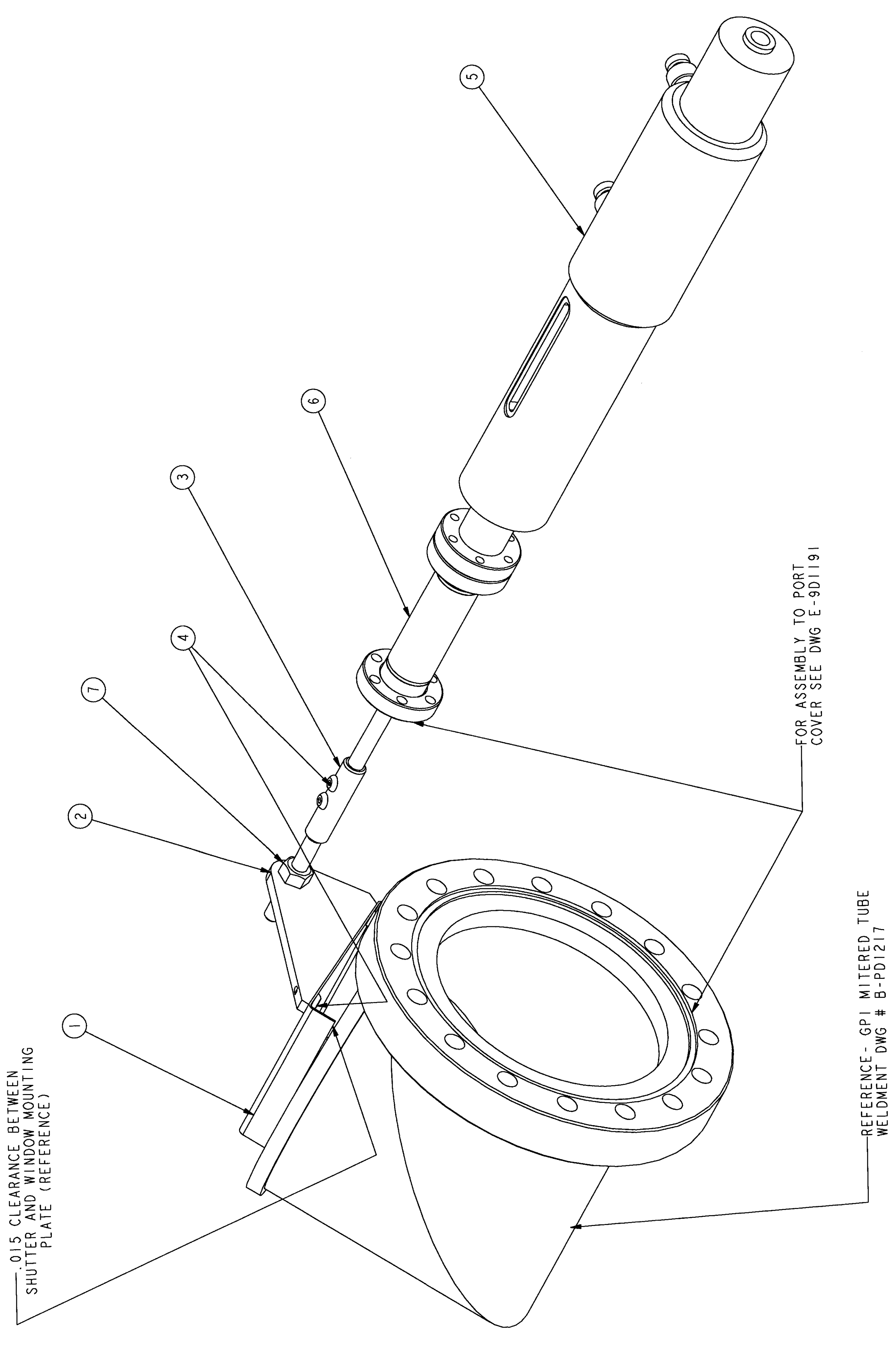


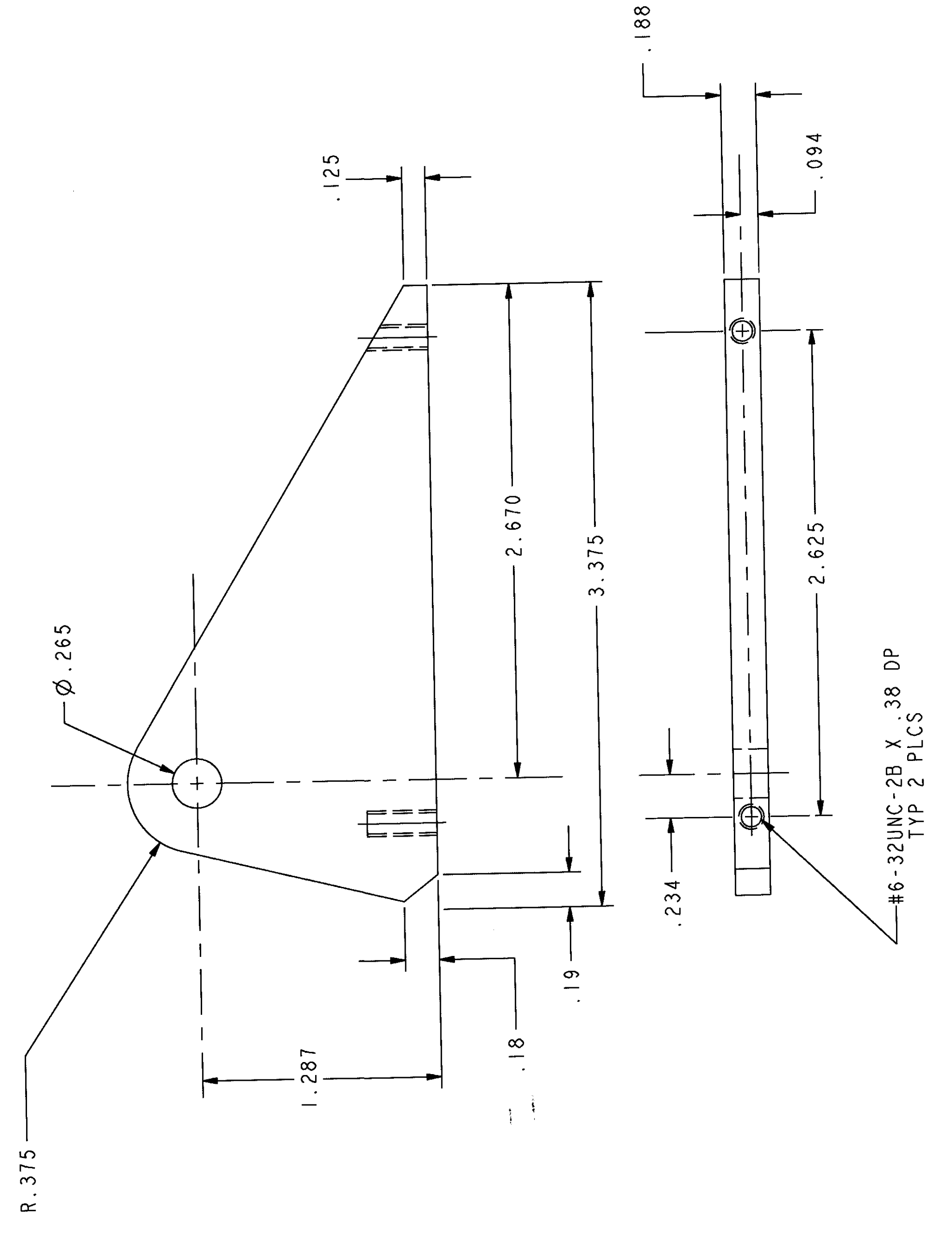
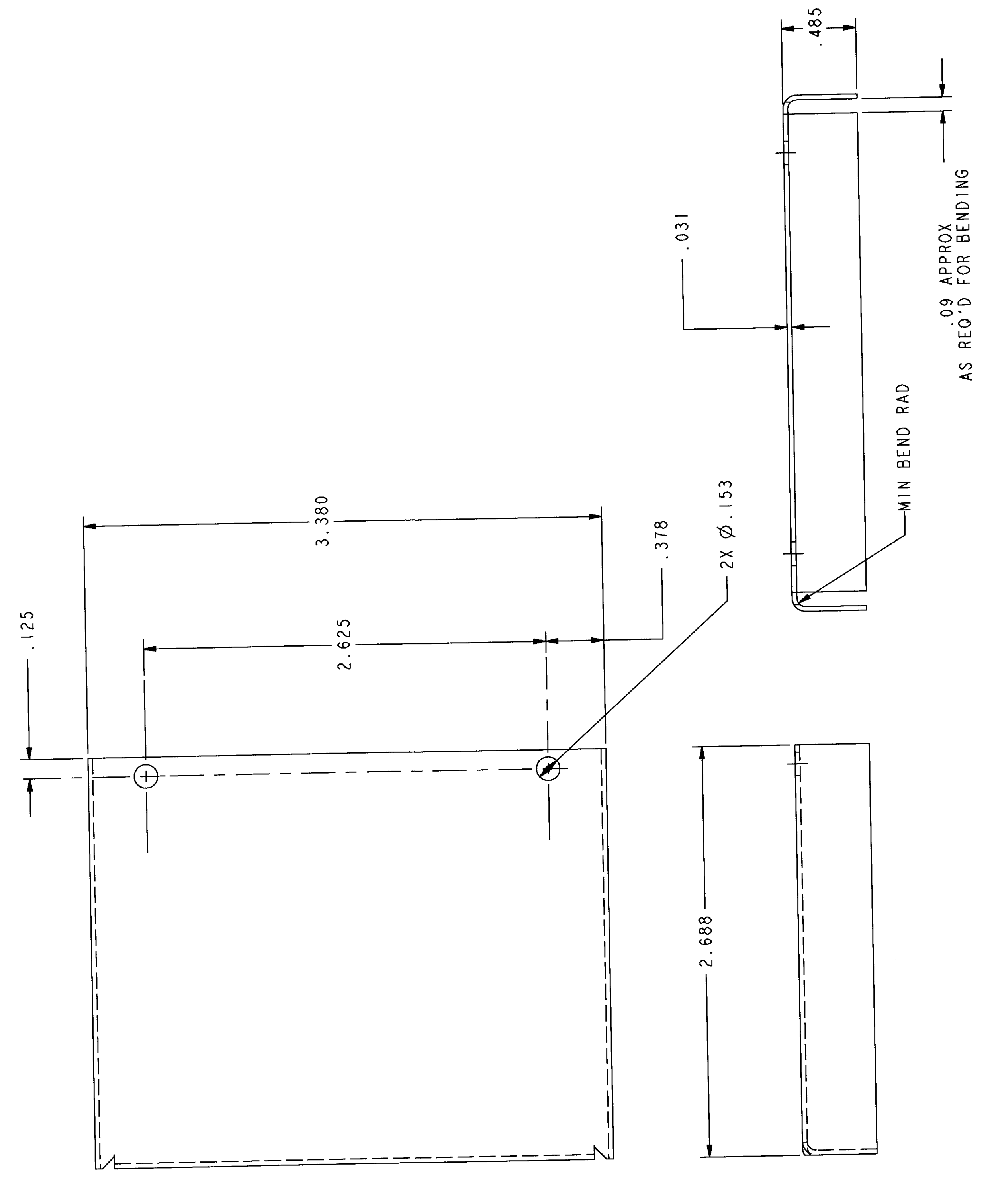
NO.	REVISION	BY	CHK	SUP	APPROVED	DATE



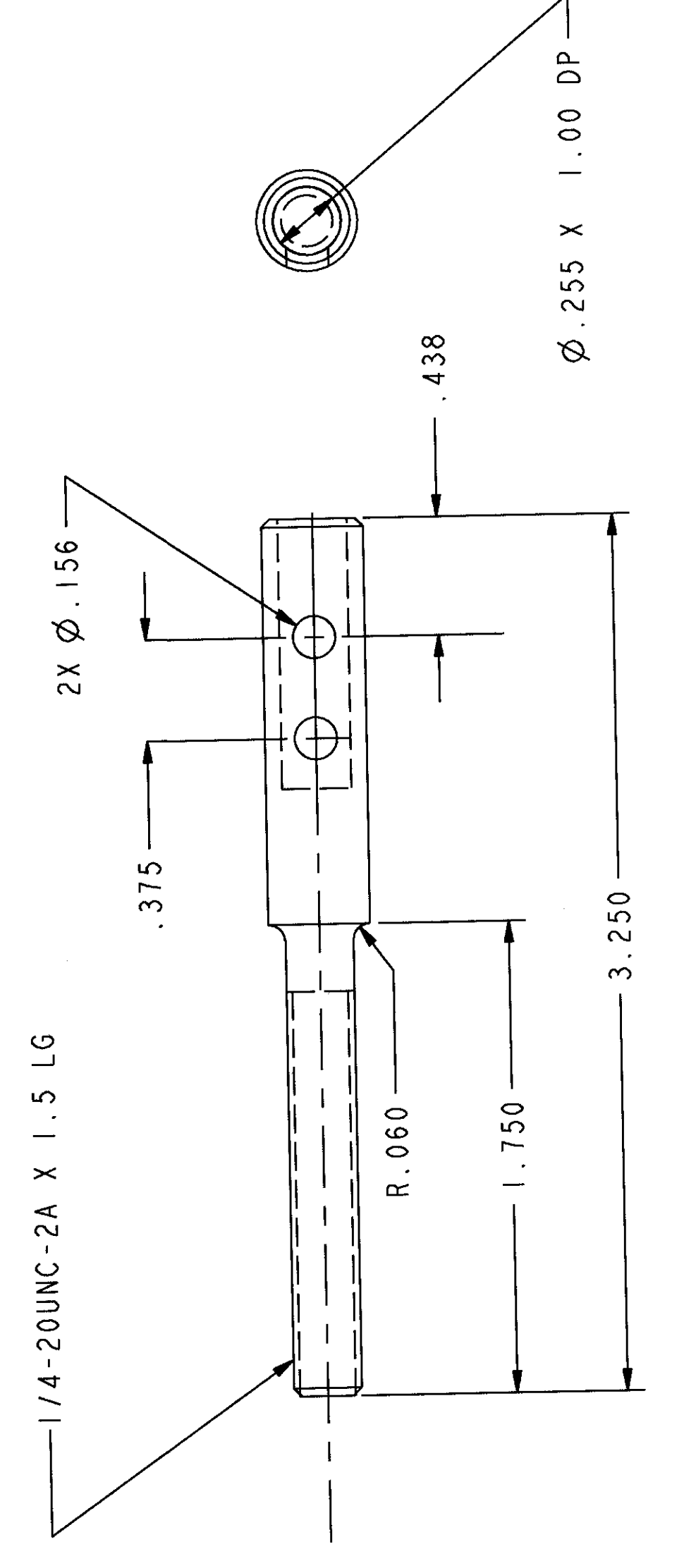
GPI SHUTTER ASSY 01

NOTE: TACK WELD SHUTTER HARDWARE AFTER INSTALLATION IN PORT COVER

PART 1



PART 2



PART 3

RELEASED FOR FABRICATION/INSTALLATION
 PPPL CENTRAL FILES: [Signature]
 RELEASE DATE: 5/13/02
 EXPIRATION DATE: [Signature]

2	7	THIS DWG	1/4-20UNC HEX NUT	SS
1 <td>6 <td>THIS DWG <td>NIPPLE MDC # 402000 REF 075-2 <td>COMM</td> </td></td></td>	6 <td>THIS DWG <td>NIPPLE MDC # 402000 REF 075-2 <td>COMM</td> </td></td>	THIS DWG <td>NIPPLE MDC # 402000 REF 075-2 <td>COMM</td> </td>	NIPPLE MDC # 402000 REF 075-2 <td>COMM</td>	COMM
1 <td>5 <td>THIS DWG <td>LINEAR ACTUATOR MDC # ABLM-133-2 <td>COMM</td> </td></td></td>	5 <td>THIS DWG <td>LINEAR ACTUATOR MDC # ABLM-133-2 <td>COMM</td> </td></td>	THIS DWG <td>LINEAR ACTUATOR MDC # ABLM-133-2 <td>COMM</td> </td>	LINEAR ACTUATOR MDC # ABLM-133-2 <td>COMM</td>	COMM
4 <td>4 <td>THIS DWG <td>6-32UNC X 5/16 LG BUTTON HD SCREW <td>SS</td> </td></td></td>	4 <td>THIS DWG <td>6-32UNC X 5/16 LG BUTTON HD SCREW <td>SS</td> </td></td>	THIS DWG <td>6-32UNC X 5/16 LG BUTTON HD SCREW <td>SS</td> </td>	6-32UNC X 5/16 LG BUTTON HD SCREW <td>SS</td>	SS
1 <td>3 <td>THIS DWG <td>.375 Ø X 3.25 LG <td>304 SS</td> </td></td></td>	3 <td>THIS DWG <td>.375 Ø X 3.25 LG <td>304 SS</td> </td></td>	THIS DWG <td>.375 Ø X 3.25 LG <td>304 SS</td> </td>	.375 Ø X 3.25 LG <td>304 SS</td>	304 SS
1 <td>2 <td>THIS DWG <td>3.375 X 1.662 X .188 TH'K <td>304 SS</td> </td></td></td>	2 <td>THIS DWG <td>3.375 X 1.662 X .188 TH'K <td>304 SS</td> </td></td>	THIS DWG <td>3.375 X 1.662 X .188 TH'K <td>304 SS</td> </td>	3.375 X 1.662 X .188 TH'K <td>304 SS</td>	304 SS
1 <td>1 <td>THIS DWG <td>3.14 X 4.27 APPROX .032 TH'K BEND AS SHOWN <td>304 SS</td> </td></td></td>	1 <td>THIS DWG <td>3.14 X 4.27 APPROX .032 TH'K BEND AS SHOWN <td>304 SS</td> </td></td>	THIS DWG <td>3.14 X 4.27 APPROX .032 TH'K BEND AS SHOWN <td>304 SS</td> </td>	3.14 X 4.27 APPROX .032 TH'K BEND AS SHOWN <td>304 SS</td>	304 SS
1 <td>1 <td>THIS DWG <td>GPI SHUTTER ASSEMBLY <td>---</td> </td></td></td>	1 <td>THIS DWG <td>GPI SHUTTER ASSEMBLY <td>---</td> </td></td>	THIS DWG <td>GPI SHUTTER ASSEMBLY <td>---</td> </td>	GPI SHUTTER ASSEMBLY <td>---</td>	---

ASSY QTY	PART NO.	DRAWING NO.	NOMENCLATURE OR DESCRIPTION	MATERIAL
03	02	01	GPI SHUTTER ASSEMBLY	---

COMPUTER GENERATED DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES UNLESS SHOWN OTHERWISE
 BREAK SHARP EDGES .005/.002
 TOLERANCES NON-CUMULATIVE
 DECIMAL-INCH FRACTIONS
 .125 0.005
 .250 0.010
 .375 0.015
 .500 0.020
 .750 0.030
 1.000 0.040
 1.500 0.050
 2.000 0.060
 3.000 0.090
 4.000 0.125
 5.000 0.150
 10.000 0.250
 15.000 0.375
 20.000 0.500
 30.000 0.750
 40.000 1.000
 50.000 1.250
 100.000 2.000
 150.000 3.000
 200.000 4.000
 300.000 6.000
 400.000 8.000
 500.000 10.000
 1000.000 20.000
 1500.000 30.000
 2000.000 40.000
 3000.000 60.000
 4000.000 80.000
 5000.000 100.000

PRINCETON PLASMA PHYSICS LABORATORY
 NATIONAL SPHERICAL TORUS EXPERIMENT
 GPI SHUTTER ASSEMBLY
 AND DETAILS 1 THRU 3
 DATE: 5/13/02
 APPROVED: [Signature]
 ENG: G. LABIK
 POSN: B. PAUL
 DESIGNED BY: [Signature]
 CHECKED BY: M. MESSING
 CAD FILE: E-901257

WELDING ENGINEER: [Signature]
 DATE: [Signature]
 SHEET 1 OF 1 REV 0