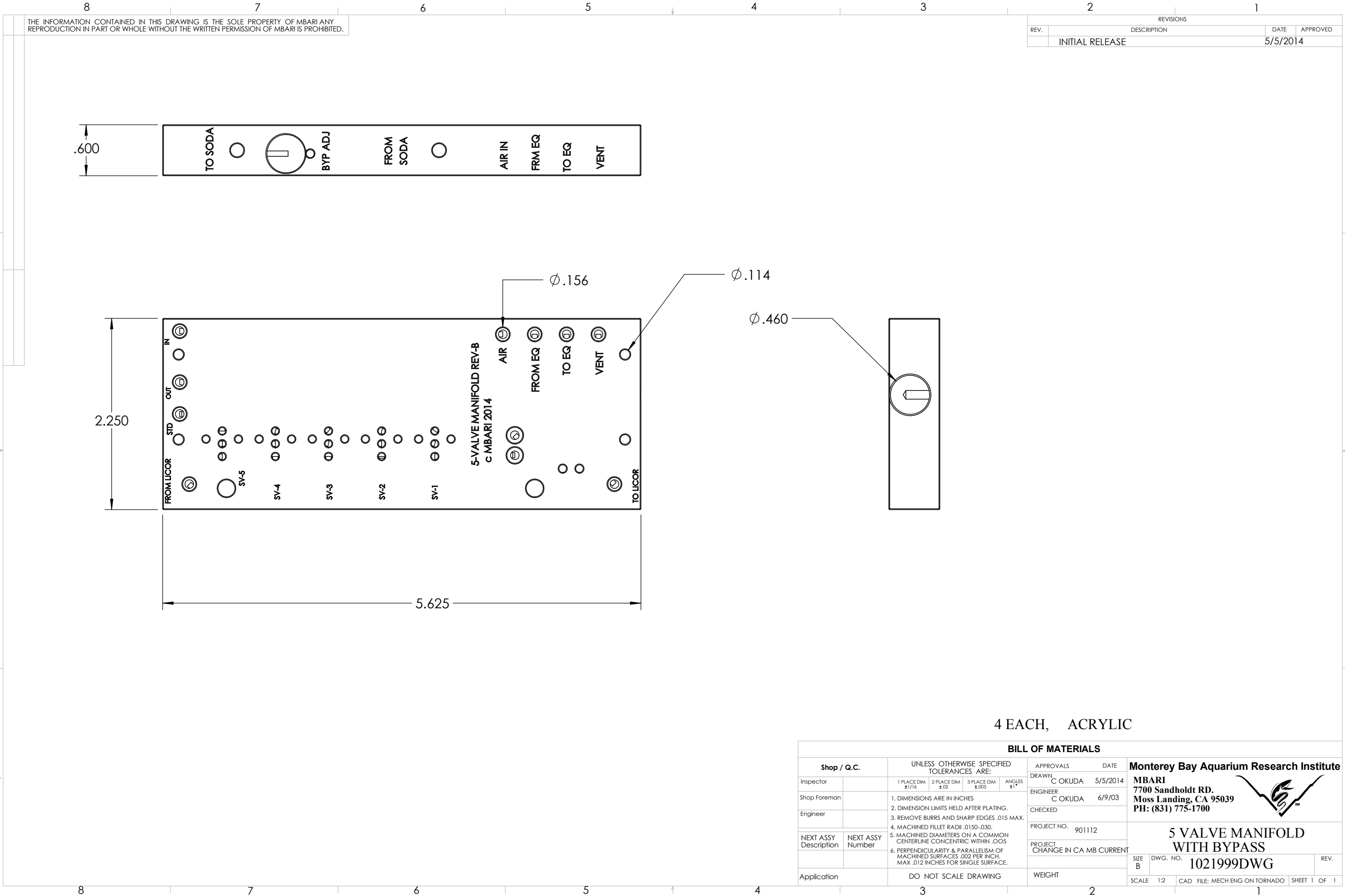




THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MBARI ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF MBARI IS PROHIBITED.

| REVISIONS |                 |          |          |
|-----------|-----------------|----------|----------|
| REV.      | DESCRIPTION     | DATE     | APPROVED |
|           | INITIAL RELEASE | 5/5/2014 |          |

4 EACH, ACRYLIC

| BILL OF MATERIALS     |                  |                                                                                                                                                                                                                                                                                                                                                 |                           |                      |               |                                 |         |          |  |
|-----------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------|---------------|---------------------------------|---------|----------|--|
| Shop / Q.C.           |                  | UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:                                                                                                                                                                                                                                                                                                      |                           |                      |               | APPROVALS                       |         | DATE     |  |
| Inspector             |                  | 1 PLACE DIM<br>±1/16                                                                                                                                                                                                                                                                                                                            | 2 PLACE DIM<br>±.02       | 3 PLACE DIM<br>±.005 | ANGLES<br>±1° | DRAWN                           | C OKUDA | 5/5/2014 |  |
| Shop Foreman          |                  | 1. DIMENSIONS ARE IN INCHES<br>2. DIMENSION LIMITS HELD AFTER PLATING.<br>3. REMOVE BURRS AND SHARP EDGES .015 MAX.<br>4. MACHINED FILLET RADII .0150-.030.<br>5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005<br>6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE. |                           |                      |               | ENGINEER                        | C OKUDA | 6/9/03   |  |
| Engineer              |                  |                                                                                                                                                                                                                                                                                                                                                 |                           |                      |               | CHECKED                         |         |          |  |
| NEXT ASSY Description | NEXT ASSY Number |                                                                                                                                                                                                                                                                                                                                                 |                           |                      |               | PROJECT NO.                     | 901112  |          |  |
|                       |                  |                                                                                                                                                                                                                                                                                                                                                 |                           |                      |               | PROJECT CHANGE IN CA MB CURRENT |         |          |  |
| Application           |                  | DO NOT SCALE DRAWING                                                                                                                                                                                                                                                                                                                            |                           |                      |               | WEIGHT                          |         |          |  |
|                       |                  | SIZE B                                                                                                                                                                                                                                                                                                                                          | DWG. NO.                  | 1021999DWG           |               | REV.                            |         |          |  |
| SCALE                 | 1:2              | CAD                                                                                                                                                                                                                                                                                                                                             | FILE: MECH ENG ON TORNADO | SHEET                | 1             | OF                              | 1       |          |  |

Monterey Bay Aquarium Research Institute  
MBARI  
7700 Sandholdt RD.  
Moss Landing, CA 95039  
PH: (831) 775-1700



5 VALVE MANIFOLD  
WITH BYPASS