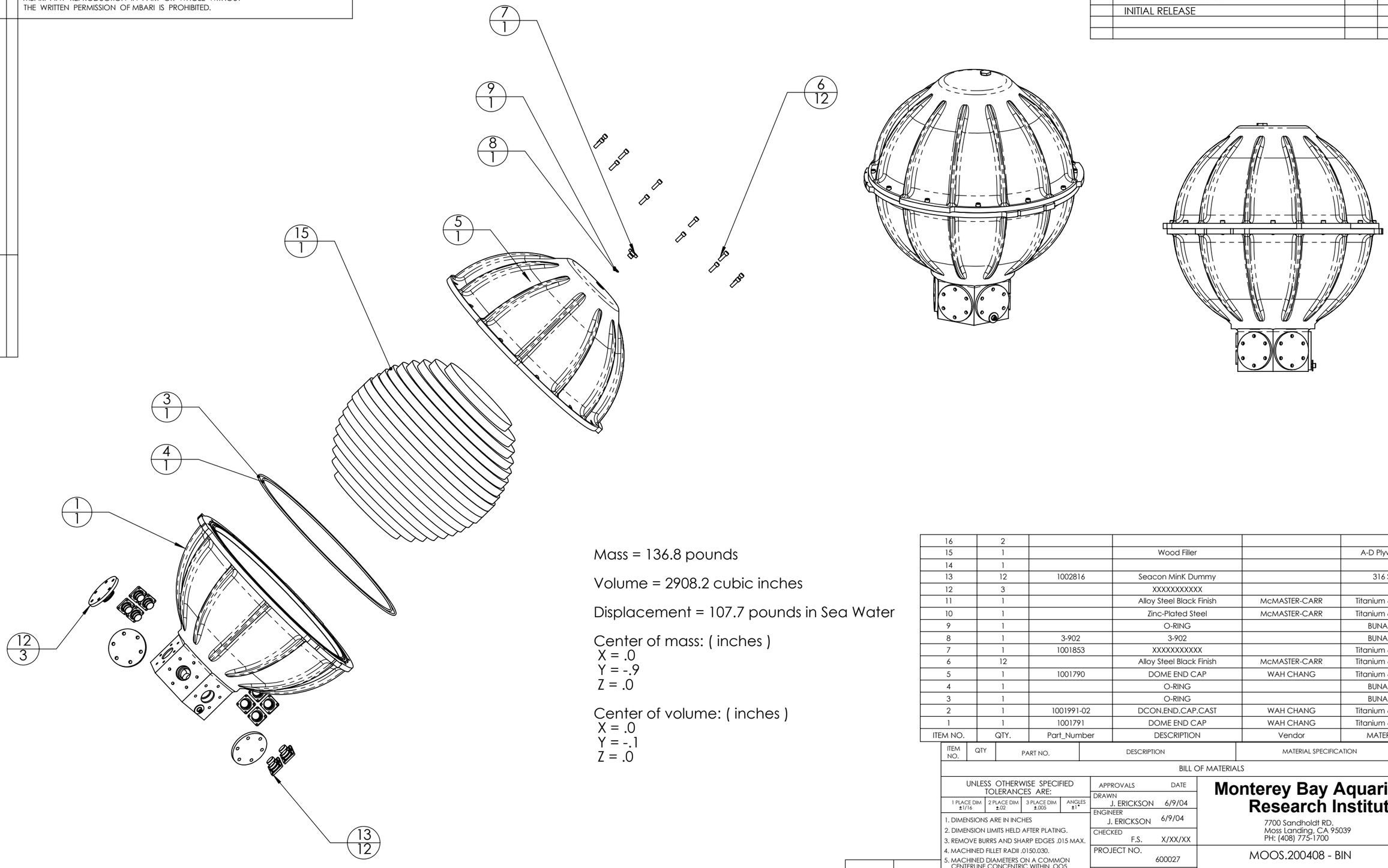
| REVISIONS | | | |
|---|---|---|---|
| REV. | DESCRIPTION | DATE | APPROVED |
| | INITIAL RELEASE | | |
| | | | |
| | | | |








Mass = 136.8 pounds

Volume = 2908.2 cubic inches

Displacement = 107.7 pounds in Sea Water

Center of mass: ( inches )
X = .0
Y = -.9
Z = .0

Center of volume: ( inches )
X = .0
Y = -.1
Z = .0

| ITEM NO. | QTY. | Part_Number | DESCRIPTION | Vendor | MATERIAL |
|---|---|---|---|---|---|
| 16 | 2 | | | | |
| 15 | 1 | | Wood Filler | | A-D Plywood |
| 14 | 1 | | | | |
| 13 | 12 | 1002816 | Seacon MinK Dummy | | 316 SS |
| 12 | 3 | | XXXXXXXXXX | | |
| 11 | 1 | | Alloy Steel Black Finish | McMASTER-CARR | Titanium 6AL-4V |
| 10 | 1 | | Zinc-Plated Steel | McMASTER-CARR | Titanium 6AL-4V |
| 9 | 1 | | O-RING | | BUNA - N |
| 8 | 1 | 3-902 | 3-902 | | BUNA - N |
| 7 | 1 | 1001853 | XXXXXXXXXX | | Titanium 6AL-4V |
| 6 | 12 | | Alloy Steel Black Finish | McMASTER-CARR | Titanium 6AL-4V |
| 5 | 1 | 1001790 | DOME END CAP | WAH CHANG | Titanium 6AL-4V |
| 4 | 1 | | O-RING | | BUNA - N |
| 3 | 1 | | O-RING | | BUNA - N |
| 2 | 1 | 1001991-02 | DCON.END.CAP.CAST | WAH CHANG | Titanium 6AL-4V |
| 1 | 1 | 1001791 | DOME END CAP | WAH CHANG | Titanium 6AL-4V |

| ITEM NO. | QTY | PART NO. | DESCRIPTION | MATERIAL SPECIFICATION |
|---|---|---|---|---|

BILL OF MATERIALS

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:

| 1 PLACE DIM ±1/16 | 2 PLACE DIM ±.02 | 3 PLACE DIM ±.005 | ANGLES ±1° |
|---|---|---|---|

1. DIMENSIONS ARE IN INCHES
2. DIMENSION LIMITS HELD AFTER PLATING.
3. REMOVE BURRS AND SHARP EDGES .015 MAX.
4. MACHINED FILLET RADII .0150.030.
5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005
6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.

DO NOT SCALE DRAWING

| APPROVALS | DATE |
|---|---|
| DRAWN J. ERICKSON | 6/9/04 |
| ENGINEER J. ERICKSON | 6/9/04 |
| CHECKED F.S. | X/XX/XX |
| PROJECT NO. | 600027 |
| PROJECT | MOOS |
| WEIGHT | 138.704 lb. |

**Monterey Bay Aquarium Research Institute**
7700 Sandholdt RD.
Moss Landing, CA 95039
PH: (408) 775-1700

MOOS.200408 - BIN

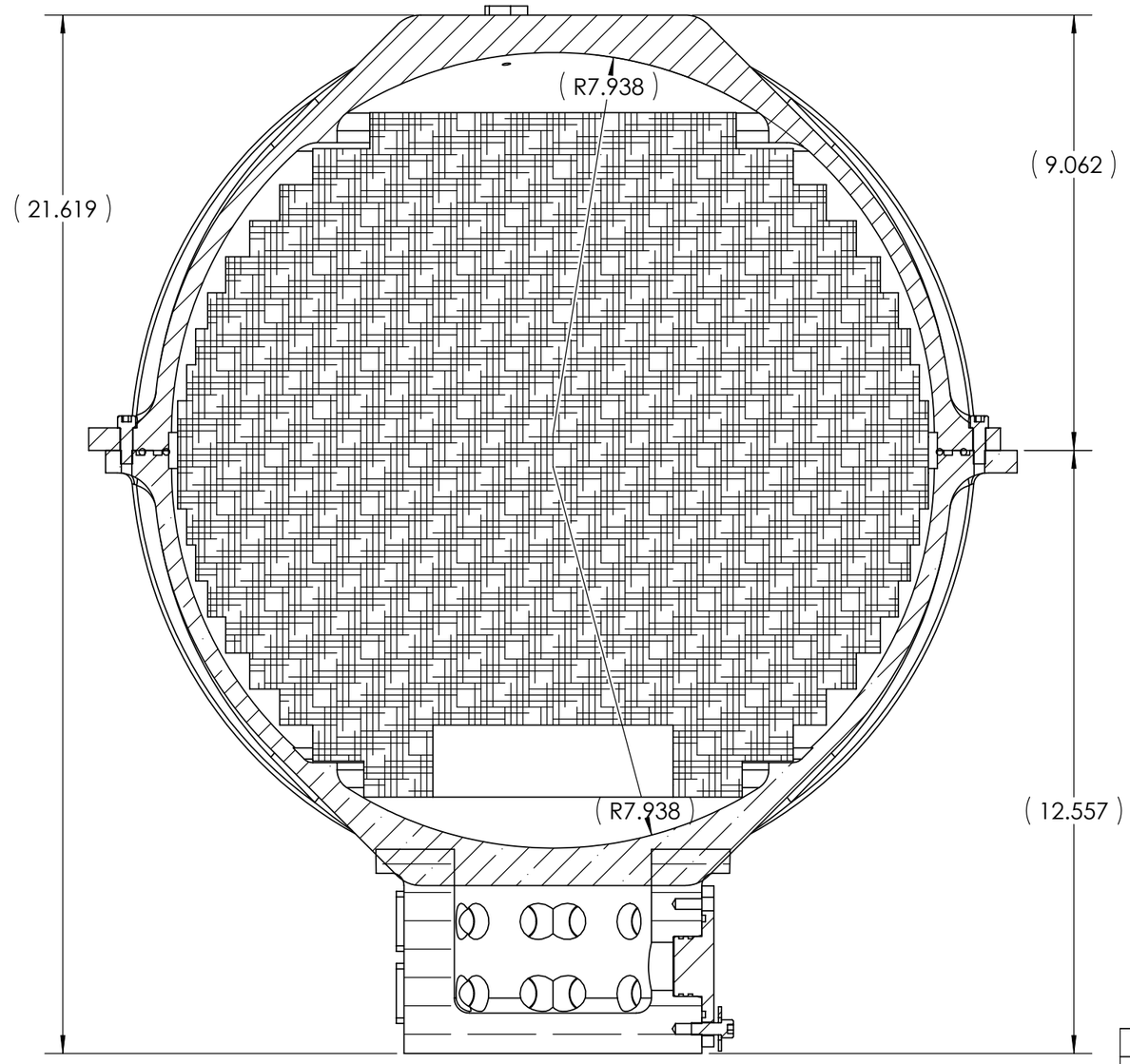
HexHat_TiBall_Case_Assembly_V3_PressTest

| SIZE | DWG. NO. | REV. |
|---|---|---|
| B | 1002696.DWG | |

| SCALE 1:1 | CAD FILE: BARNACLE\ARCHIVE | SHEET 1 OF 1 |
|---|---|---|

| NEXT ASSY | USED ON |
|---|---|
| APPLICATION | |

| REVISIONS | | | |
|---|---|---|---|
| REV. | DESCRIPTION | DATE | APPROVED |
| | INITIAL RELEASE | X/XX/00 | J.E. |




SECTION M-M
SCALE 1 : 3

NOTES: (CONT. FROM TITLE BLOCK)

| ITEM NO. | QTY. | PART NO. | DESCRIPTION | VENDOR | MATERIAL SPECIFICATION |
|---|---|---|---|---|---|
| | | | | | |

**BILL OF MATERIALS**

| | |
|---|---|
| Shop / Q.C. | |
| Inspector | |
| Shop Foreman | |
| Engineer | |
| NEXT ASSY Description | NEXT ASSY Number |
| | |
| Application | |

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:

| 1 PLACE DIM ±1/16 | 2 PLACE DIM ±.02 | 3 PLACE DIM ±.005 | ANGLES ±1° |
|---|---|---|---|

1. DIMENSIONS ARE IN INCHES
2. DIMENSION LIMITS HELD AFTER PLATING.
3. REMOVE BURRS AND SHARP EDGES .015 MAX.
4. MACHINED FILLET RADII .0150-.030.
5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005
6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH, MAX .012 INCHES FOR SINGLE SURFACE.

DO NOT SCALE DRAWING

| APPROVALS | DATE |
|---|---|
| DRAWN J. ERICKSON | 6/9/04 |
| ENGINEER J. ERICKSON | 6/9/04 |
| CHECKED | |
| PROJECT NO. 600027 | |
| PROJECT MOOS | |
| WEIGHT | |

**Monterey Bay Aquarium Research Institute**
**MBARI**
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**Moss Landing, CA 95039**
**PH: (831) 775-1700**

MOOS.200408 - BIN
HexHat_TiBall_Case_Assembly_V3_PressTest

| SIZE | DWG. NO. | REV. |
|---|---|---|
| B | 1002696.DWG | |

| SCALE 1:8 | CAD FILE: MECH ENG ON TORNADO | SHEET 2 OF 2 |
|---|---|---|