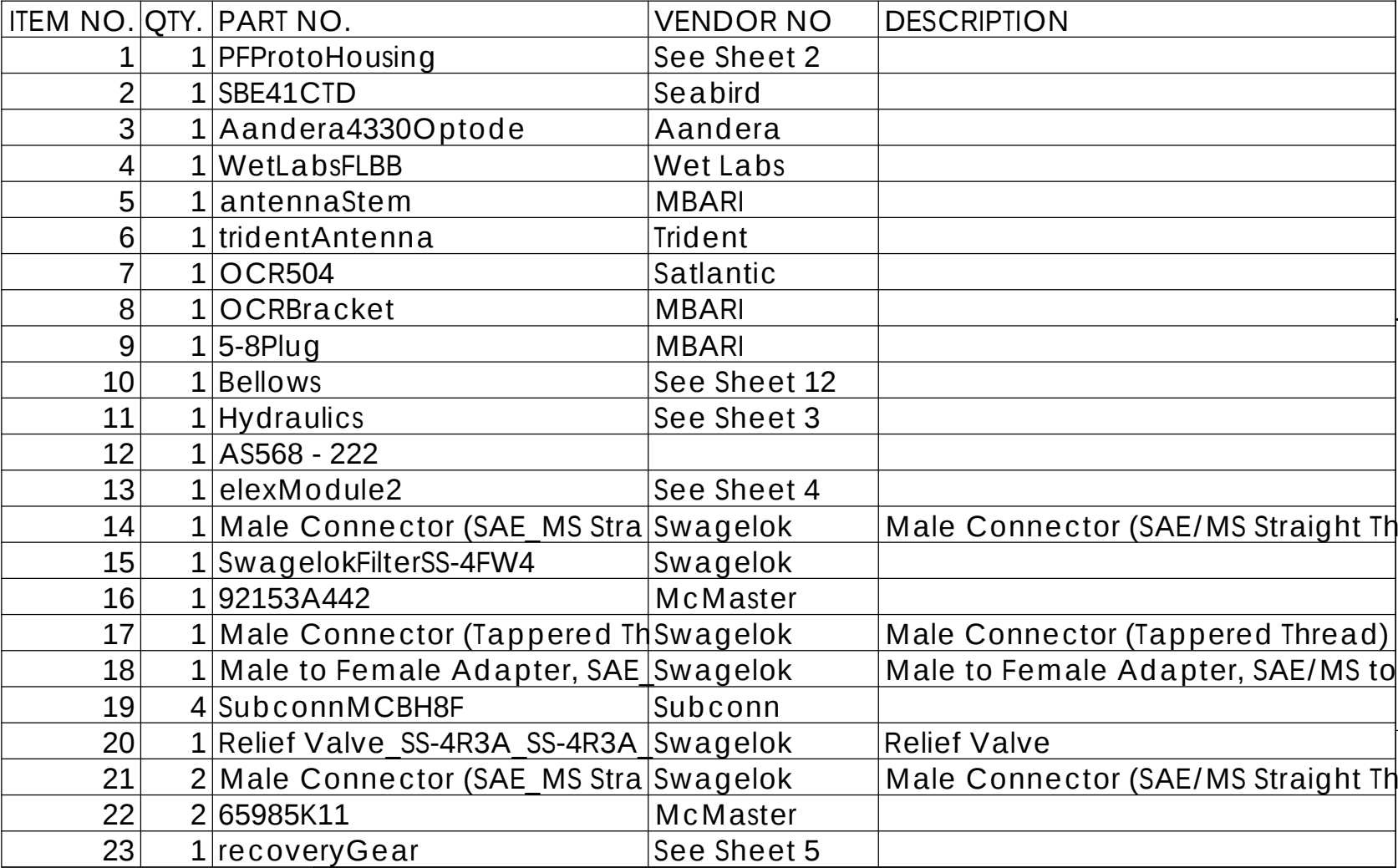
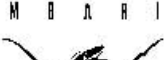
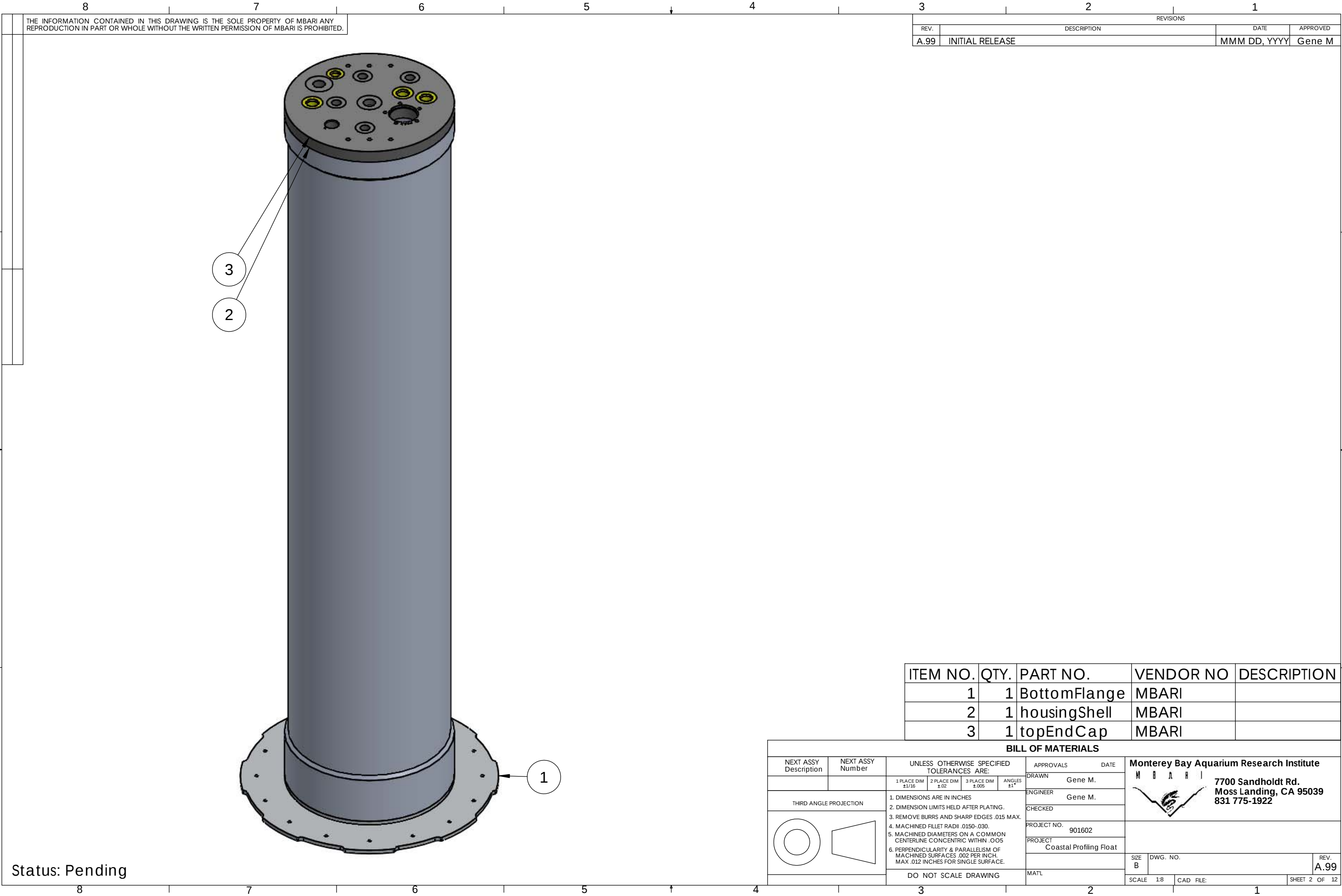




| BILL OF MATERIALS                                                                     |                  |                                                                                                                                                                                                                                                                                                                                                                                                         |                     |                      |               |             |         |           |                         |                                                                                                                                                                                                                                                              |      |  |
|---------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------|---------------|-------------|---------|-----------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--|
| NEXT ASSY Description                                                                 | NEXT ASSY Number | UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:                                                                                                                                                                                                                                                                                                                                                              |                     |                      |               | APPROVALS   |         | DATE      |                         | <div>Monterey Bay Aquarium Research Institute</div> <div><div>M B A R I</div><div></div><div>7700 Sandholdt Rd.<br/>Moss Landing, CA 95039<br/>831 775-1922</div></div> |      |  |
|                                                                                       |                  | 1 PLACE DIM<br>±1/16                                                                                                                                                                                                                                                                                                                                                                                    | 2 PLACE DIM<br>±.02 | 3 PLACE DIM<br>±.005 | ANGLES<br>±1° | DRAWN       | Gene M. |           |                         |                                                                                                                                                                                                                                                              |      |  |
| THIRD ANGLE PROJECTION                                                                |                  | <div>1. DIMENSIONS ARE IN INCHES</div> <div>2. DIMENSION LIMITS HELD AFTER PLATING.</div> <div>3. REMOVE BURRS AND SHARP EDGES .015 MAX.</div> <div>4. MACHINED FILLET RADII .0150-.030.</div> <div>5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005</div> <div>6. PERPENDICULARITY &amp; PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX. .012 INCHES FOR SINGLE SURFACE.</div> |                     |                      |               | ENGINEER    | Gene M. |           |                         |                                                                                                                                                                                                                                                              |      |  |
|                                                                                       |                  |                                                                                                                                                                                                                                                                                                                                                                                                         |                     |                      |               | CHECKED     |         |           |                         |                                                                                                                                                                                                                                                              |      |  |
|                                                                                       |                  |                                                                                                                                                                                                                                                                                                                                                                                                         |                     |                      |               | PROJECT NO. |         |           | 901602                  |                                                                                                                                                                                                                                                              |      |  |
|                                                                                       |                  |                                                                                                                                                                                                                                                                                                                                                                                                         |                     |                      |               | PROJECT     |         |           | Coastal Profiling Float |                                                                                                                                                                                                                                                              |      |  |
|  |                  | DO NOT SCALE DRAWING                                                                                                                                                                                                                                                                                                                                                                                    |                     |                      |               | SIZE        |         | DWG. NO.  |                         |                                                                                                                                                                                                                                                              | REV. |  |
|                                                                                       |                  |                                                                                                                                                                                                                                                                                                                                                                                                         |                     |                      |               | B           |         |           |                         | B                                                                                                                                                                                                                                                            |      |  |
|                                                                                       |                  |                                                                                                                                                                                                                                                                                                                                                                                                         |                     |                      |               | SCALE       | 1:8     | CAD FILE: |                         | SHEET 1 OF 12                                                                                                                                                                                                                                                |      |  |

Status: Pending





## BILL OF MATERIALS

|                                                                                       |                     |                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                      |               |             |                         |       |                                                                                                                                                                                                 |                                          |  |               |  |
|---------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------|---------------|-------------|-------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--|---------------|--|
| NEXT ASSY<br>Description                                                              | NEXT ASSY<br>Number | UNLESS OTHERWISE SPECIFIED<br>TOLERANCES ARE:                                                                                                                                                                                                                                                                                                                                                          |                     |                      |               | APPROVALS   |                         | DATE  |                                                                                                                                                                                                 | Monterey Bay Aquarium Research Institute |  |               |  |
|                                                                                       |                     | 1 PLACE DIM<br>±1/16                                                                                                                                                                                                                                                                                                                                                                                   | 2 PLACE DIM<br>±.02 | 3 PLACE DIM<br>±.005 | ANGLES<br>±1° | DRAWN       | Gene M.                 |       | <div>M B A R I</div> <div></div> <div>7700 Sandholdt Rd.<br/>Moss Landing, CA 95039<br/>831 775-1922</div> |                                          |  |               |  |
| THIRD ANGLE PROJECTION                                                                |                     | <div>1. DIMENSIONS ARE IN INCHES</div> <div>2. DIMENSION LIMITS HELD AFTER PLATING.</div> <div>3. REMOVE BURRS AND SHARP EDGES .015 MAX.</div> <div>4. MACHINED FILLET RADII .0150-.030.</div> <div>5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005</div> <div>6. PERPENDICULARITY &amp; PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.</div> |                     |                      |               | ENGINEER    | Gene M.                 |       |                                                                                                                                                                                                 |                                          |  |               |  |
|  |                     |                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                      |               | CHECKED     |                         |       |                                                                                                                                                                                                 |                                          |  |               |  |
|                                                                                       |                     |                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                      |               | PROJECT NO. | 901602                  |       |                                                                                                                                                                                                 |                                          |  |               |  |
|                                                                                       |                     |                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                      |               | PROJECT     | Coastal Profiling Float |       |                                                                                                                                                                                                 |                                          |  |               |  |
|                                                                                       |                     |                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                      |               |             |                         |       |                                                                                                                                                                                                 |                                          |  |               |  |
|                                                                                       |                     | DO NOT SCALE DRAWING                                                                                                                                                                                                                                                                                                                                                                                   |                     |                      |               | MAT'L       |                         |       | SIZE<br>B                                                                                                                                                                                       | DWG. NO.                                 |  | REV.<br>A.05  |  |
|                                                                                       |                     |                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                      |               |             |                         | SCALE | 1:4                                                                                                                                                                                             | CAD FILE:                                |  | SHEET 3 OF 12 |  |

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| REV. |  | DESCRIPTION     |  | DATE         |  | APPROVED |  |
|------|--|-----------------|--|--------------|--|----------|--|
| A.53 |  | INITIAL RELEASE |  | MMM DD, YYYY |  | Gene M   |  |

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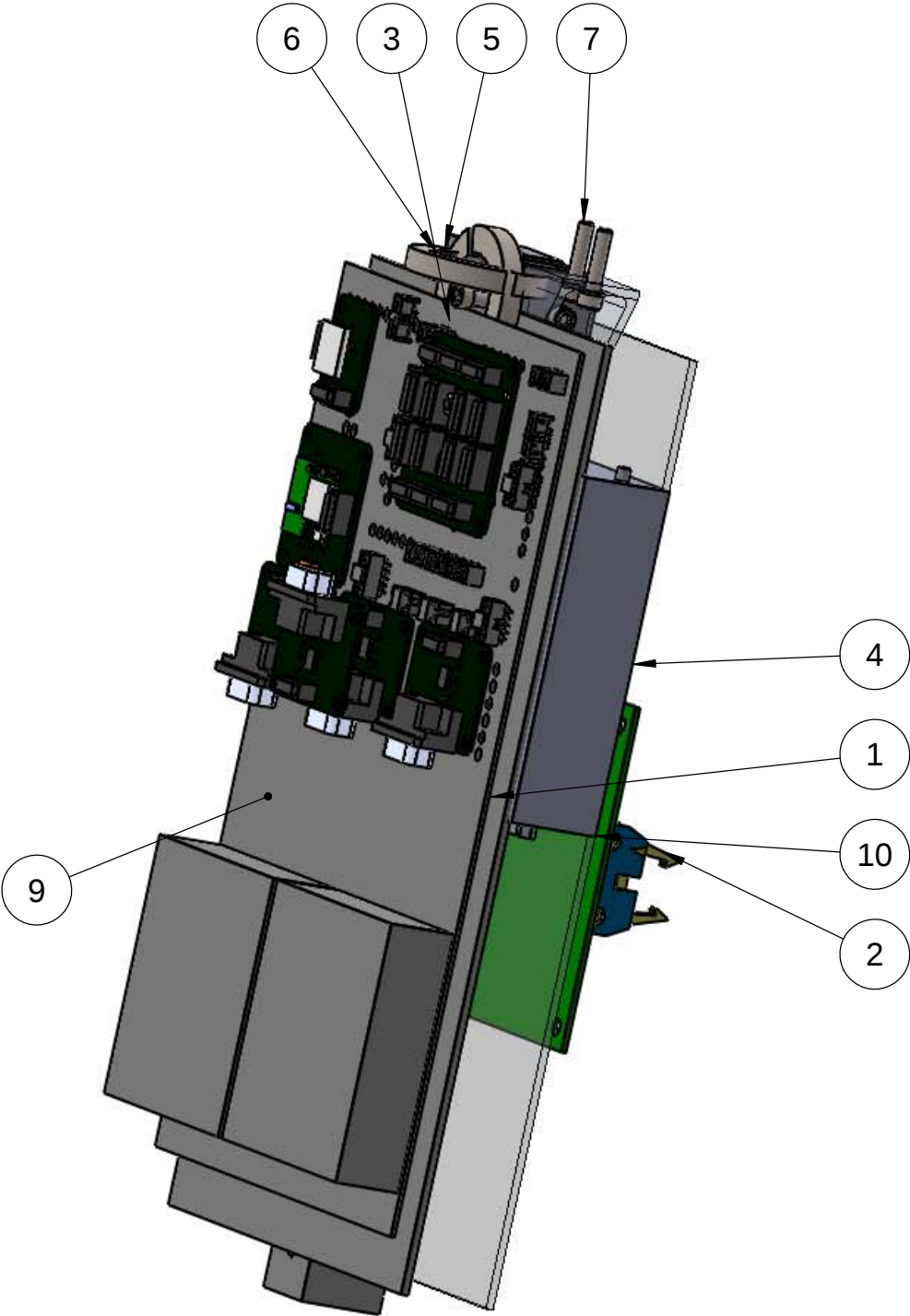
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| ITEM NO. | QTY. | PART NO.                      | VENDOR NO    | DESCRIPTION |
|----------|------|-------------------------------|--------------|-------------|
| 1        | 1    | elexModuleCenterStem          | MBARI        |             |
| 2        | 1    | CTD-CCA                       | Seabird      |             |
| 3        | 2    | elexModuleStemBracket         | MBARI        |             |
| 4        | 1    | NAL-A3LARG                    | NAL Research |             |
| 5        | 2    | lock washer spring regular_ai | McMaster     |             |
| 6        | 10   | Regular LW 0.164              | McMaster     |             |
| 7        | 9    | socket head cap screw_ai      | McMaster     |             |
| 8        | 1    | HX-SHCS 0.19-32x0.25x0.25-N   | McMaster     |             |
| 9        | 1    | GadgeteerMotherboard          | MBARI        |             |
| 10       | 2    | G10MountingPlate              | MBARI        |             |
| 11       | 1    | stopBlock                     | MBARI        |             |

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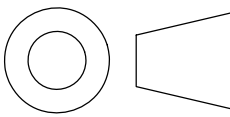
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THIRD ANGLE PROJECTION



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 Gene M.

ENGINEER Gene M.

CHECKED

PROJECT NO. 901602

PROJECT Coastal Profiling Float

MAT'L

Monterey Bay Aquarium Research Institute

 7700 Sandholdt Rd. Moss Landing, CA 95039 831 775-1922

SIZE B

DWG. NO.

REV. A.53

SCALE 1:4

CAD FILE:

SHEET 4 OF 12

Status: Pending



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| REV. |                 | DESCRIPTION | DATE         | APPROVED |
|------|-----------------|-------------|--------------|----------|
| A.94 | INITIAL RELEASE |             | MMM DD, YYYY | Gene M   |

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| ITEM NO. | QTY. | PART NO.                           | VENDOR NO | DESCRIPTION                         |
|----------|------|------------------------------------|-----------|-------------------------------------|
| 1        | 1    | roundHydManifold                   | MBARI     |                                     |
| 2        | 1    | RE65-353295                        | Maxon     |                                     |
| 3        | 1    | HEDL5540                           | Maxon     |                                     |
| 4        | 1    | RE65BondedShaft                    | MBARI     |                                     |
| 5        | 1    | RE65AdapterPlate                   | MBARI     |                                     |
| 6        | 1    | oilDynePump                        | Oildyne   |                                     |
| 7        | 1    | motorPumpBracket                   | MBARI     |                                     |
| 8        | 3    | Positionable Male Elbow_SS-400-2-4 | Swagelok  | Positionable Male Elbow             |
| 9        | 2    | One-Piece,Pipe Ended Check Valv    | Swagelok  | One-Piece,Pipe Ended Check Valves   |
| 10       | 1    | Positionable Male Elbow_SS-600-2-4 | Swagelok  | Positionable Male Elbow             |
| 11       | 1    | SwagelokFilterSS-4FW4              | Swagelok  |                                     |
| 12       | 3    | yellowHydTubing                    | McMaster  |                                     |
| 13       | 10   | Regular LW 0.19                    | McMaster  |                                     |
| 14       | 4    | socket head cap screw_ai           | McMaster  |                                     |
| 15       | 4    | HX-SHCS 0.19-32x0.75x0.75-N        | McMaster  |                                     |
| 16       | 4    | B18.3.4M - 5 x 0.8 x 12 SBHCS --N  | McMaster  |                                     |
| 17       | 1    | hydManifoldFoot                    | MBARI     |                                     |
| 18       | 2    | 3-904ORing                         | McMaster  |                                     |
| 19       | 2    | Female Pipe x Straight Thread Elbo | SSP       | Female Pipe x Straight Thread Elbow |
| 20       | 1    | 53055K213                          | McMaster  |                                     |
| 21       | 1    | 5058K673                           | McMaster  |                                     |
| 22       | 1    | Compact Check Valves_SS-CHS6-1     | Swagelok  | Compact Check Valves                |

THIRD ANGLE PROJECTION

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

Gene M.

ENGINEER

Gene M.

CHECKED

PROJECT NO.

901602

PROJECT

Coastal Profiling Float

MAT'L

Monterey Bay Aquarium Research Institute

7700 Sandholdt Rd.  
Moss Landing, CA 95039  
831 775-1922

SIZE B

DWG. NO.

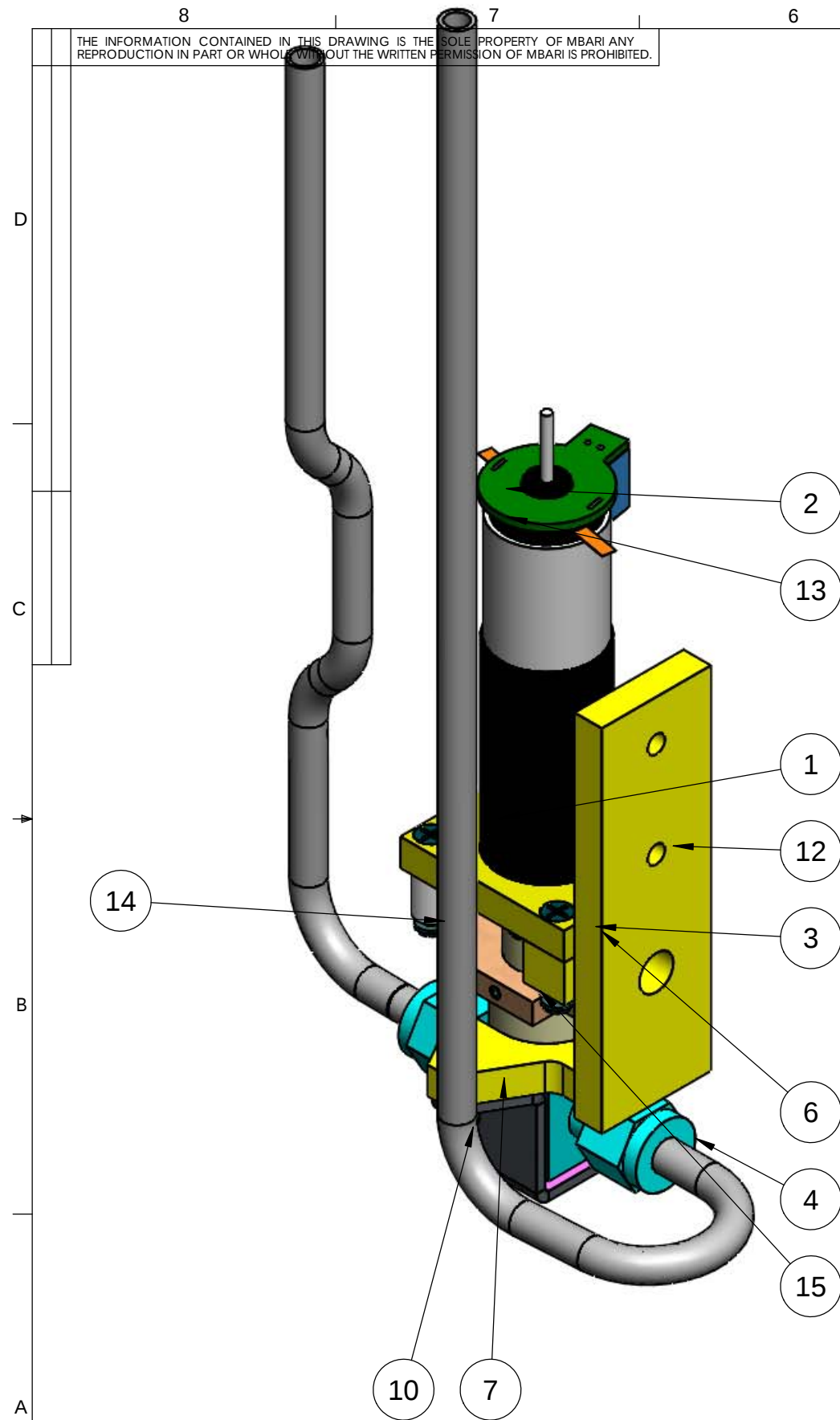
REV. A.94

SCALE 1:4

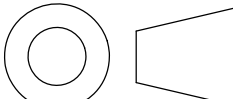
CAD FILE:

SHEET 6 OF 12

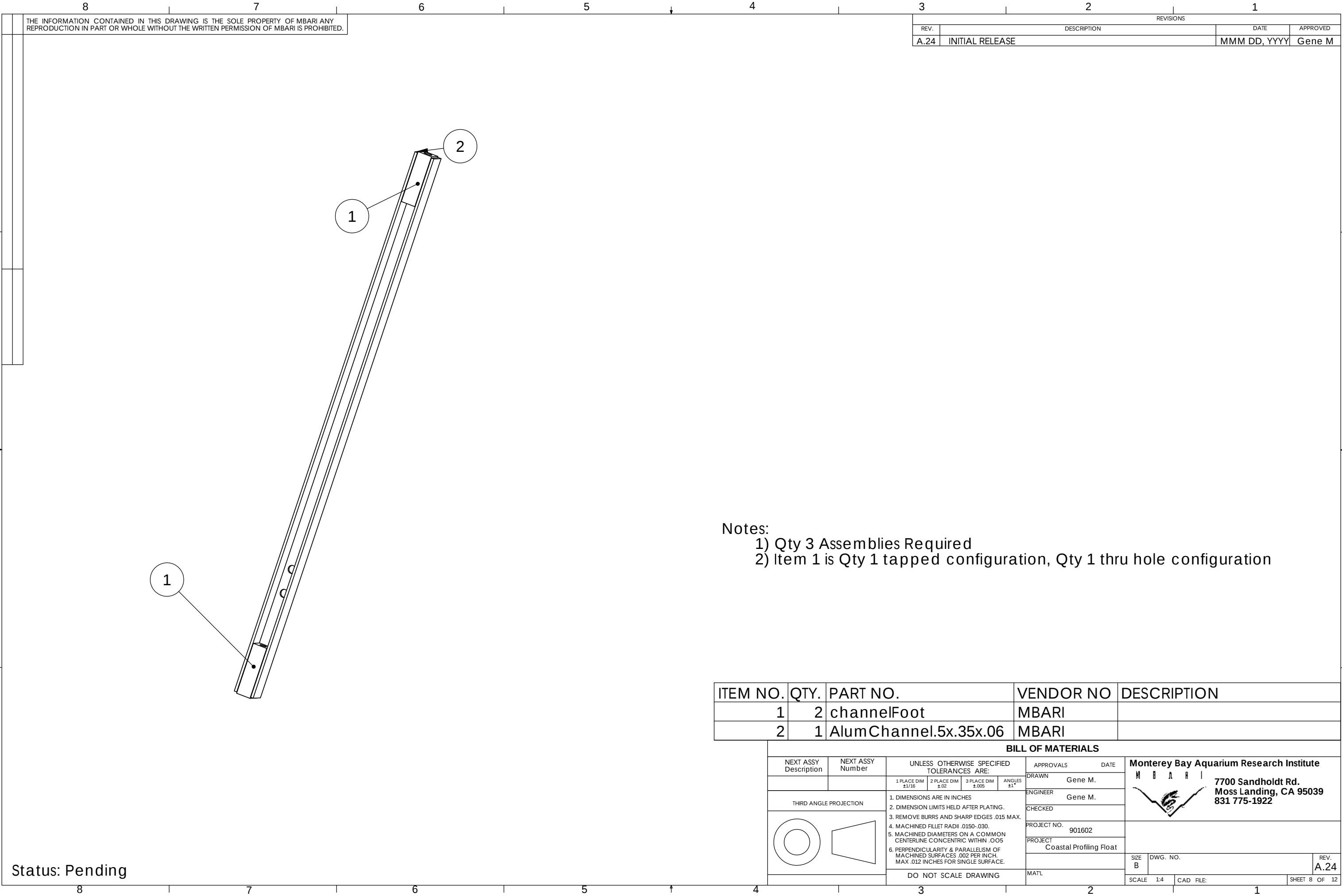
Status: Pending



| ITEM NO. | QTY. | PART NO.                    | VENDOR NO      | DESCRIPTION                         |
|----------|------|-----------------------------|----------------|-------------------------------------|
| 1        | 1    | P-200992-11_ValveMotorMt    | MBARI          | Valve Mount Rib                     |
| 2        | 1    | Maxon_REmax221024_110340    | Maxon          | Re-max21, CLL 3.5W                  |
| 3        | 1    | RotatingAssem1              |                |                                     |
|          | 1    | P-200986-11_ShaftCoupling   |                | Shaft Coupling_LRAUV                |
|          | 1    | P-201066-11_MagCarrier      |                | Magnet Carrier                      |
|          | 1    | Magnet_D101-N52             |                | NdFeB Magnet                        |
|          | 1    | P-201067-11_MagPolePc       |                | Mag-Pole Piece                      |
|          | 1    | 92845A190                   |                | Dog Pt. Sckt Set Screw              |
|          | 2    | [442] #4 -40 UNC x 0.1875   |                | Alloy Steel                         |
| 4        | 1    | SS-4P4T_Valve               | Swagelok       | NUPRO BALL VALVE 1/4T-1/4T          |
| 5        | 1    | SpringPinCoiled_ASME18.8.2  | McMaster       | SpringPinCoiled 1/8x0.750           |
| 6        | 1    | P-201351-12_ValveBrkt       | MBARI          | Valve Base                          |
| 7        | 1    | P-201302-12_PnlMntBrkt      | SS-5PMK-P4T-GR | Panel Mount Bracket                 |
| 8        | 1    | A-201xxx-11_HallBoardAssem1 | MBARI          | VB-Valve_Hall Effect Board Assembly |
|          | 1    | P-201xxx-11_Hall_Board      |                | Hall Effect / Charging Board        |
|          | 2    | Honeywell SL353             |                | Honeywell SL353 Hall Effect         |
| 9        | 3    | (1214)_M2.5 x 8             | McMaster       | M2.5x8 FLT HD Phillips (Metric)     |
| 10       | 2    | [741] #8 -32 UNC x ¼        |                | SOC HD CAP SCREW                    |
| 11       | 4    | [260] 4 -40 UNC x ¼         | McMaster       | 18-8 Stainless Steel                |
| 12       | 4    | [2b] #4 -40 UNC x 0.375     | McMaster       | #4-40 x 3/8 Flt Hd - 82 Degree      |
| 13       | 1    | 10020864rA                  | MBARI          | Maxon21_tcb                         |
| 14       | 2    | 96110A008                   | McMaster       | #4-40 Threaded Bushing              |
| 15       | 2    | Washer_#4                   | McMaster       | #4 nylon Washer                     |
| 16       | 1    | P-201074-11_OrificePlt      | MBARI          | Orifice Plate                       |
| 17       | 1    | motorizedvbisovalve_mod1_sp | MBARI          |                                     |
| 18       | 1    | TubingSweep                 |                |                                     |
| 19       | 1    | ValveTube2                  |                |                                     |

| BILL OF MATERIALS                                                                     |                  |                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                      |               |             |         |                         |  | A                                                                                                                                                                                                                                                   |  |               |  |
|---------------------------------------------------------------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------|---------------|-------------|---------|-------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------|--|
| NEXT ASSY Description                                                                 | NEXT ASSY Number | UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:                                                                                                                                                                                                                                                                                                                                                             |                     |                      |               | APPROVALS   |         | DATE                    |  | <div>Monterey Bay Aquarium Research Institute</div> <div>M B A R I</div> <div></div> <div>7700 Sandholdt Rd.<br/>Moss Landing, CA 95039<br/>831 775-1922</div> |  |               |  |
|                                                                                       |                  | 1 PLACE DIM<br>±1/16                                                                                                                                                                                                                                                                                                                                                                                   | 2 PLACE DIM<br>±.02 | 3 PLACE DIM<br>±.005 | ANGLES<br>±1° | DRAWN       | Gene M. |                         |  |                                                                                                                                                                                                                                                     |  |               |  |
| THIRD ANGLE PROJECTION                                                                |                  | <div>1. DIMENSIONS ARE IN INCHES</div> <div>2. DIMENSION LIMITS HELD AFTER PLATING.</div> <div>3. REMOVE BURRS AND SHARP EDGES .015 MAX.</div> <div>4. MACHINED FILLET RADII .0150-.030.</div> <div>5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005</div> <div>6. PERPENDICULARITY &amp; PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.</div> |                     |                      |               | ENGINEER    | Gene M. |                         |  |                                                                                                                                                                                                                                                     |  |               |  |
|                                                                                       |                  |                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                      |               | CHECKED     |         |                         |  |                                                                                                                                                                                                                                                     |  |               |  |
|  |                  |                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                      |               | PROJECT NO. |         | 901602                  |  | <div>LRAUV VB Sys. Valve Assembly</div>                                                                                                                                                                                                             |  |               |  |
|                                                                                       |                  |                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                      |               | PROJECT     |         | Coastal Profiling Float |  |                                                                                                                                                                                                                                                     |  |               |  |
|                                                                                       |                  |                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                      |               |             |         |                         |  |                                                                                                                                                                                                                                                     |  |               |  |
|                                                                                       |                  | DO NOT SCALE DRAWING                                                                                                                                                                                                                                                                                                                                                                                   |                     |                      |               | MAT'L       |         | SIZE B                  |  | DWG. NO. 200991                                                                                                                                                                                                                                     |  | REV. A.99+    |  |
|                                                                                       |                  |                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                      |               |             |         | SCALE 1:2               |  | CAD FILE:                                                                                                                                                                                                                                           |  | SHEET 7 OF 12 |  |

Status: Pending



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| REVISIONS |                 |              |          |
|-----------|-----------------|--------------|----------|
| REV.      | DESCRIPTION     | DATE         | APPROVED |
| A.24      | INITIAL RELEASE | MMM DD, YYYY | Gene M   |

- Notes:
- 1) Qty 3 Assemblies Required
  - 2) Item 1 is Qty 1 tapped configuration, Qty 1 thru hole configuration

| ITEM NO. | QTY. | PART NO.              | VENDOR NO | DESCRIPTION |
|----------|------|-----------------------|-----------|-------------|
| 1        | 2    | channelFoot           | MBARI     |             |
| 2        | 1    | AlumChannel.5x.35x.06 | MBARI     |             |

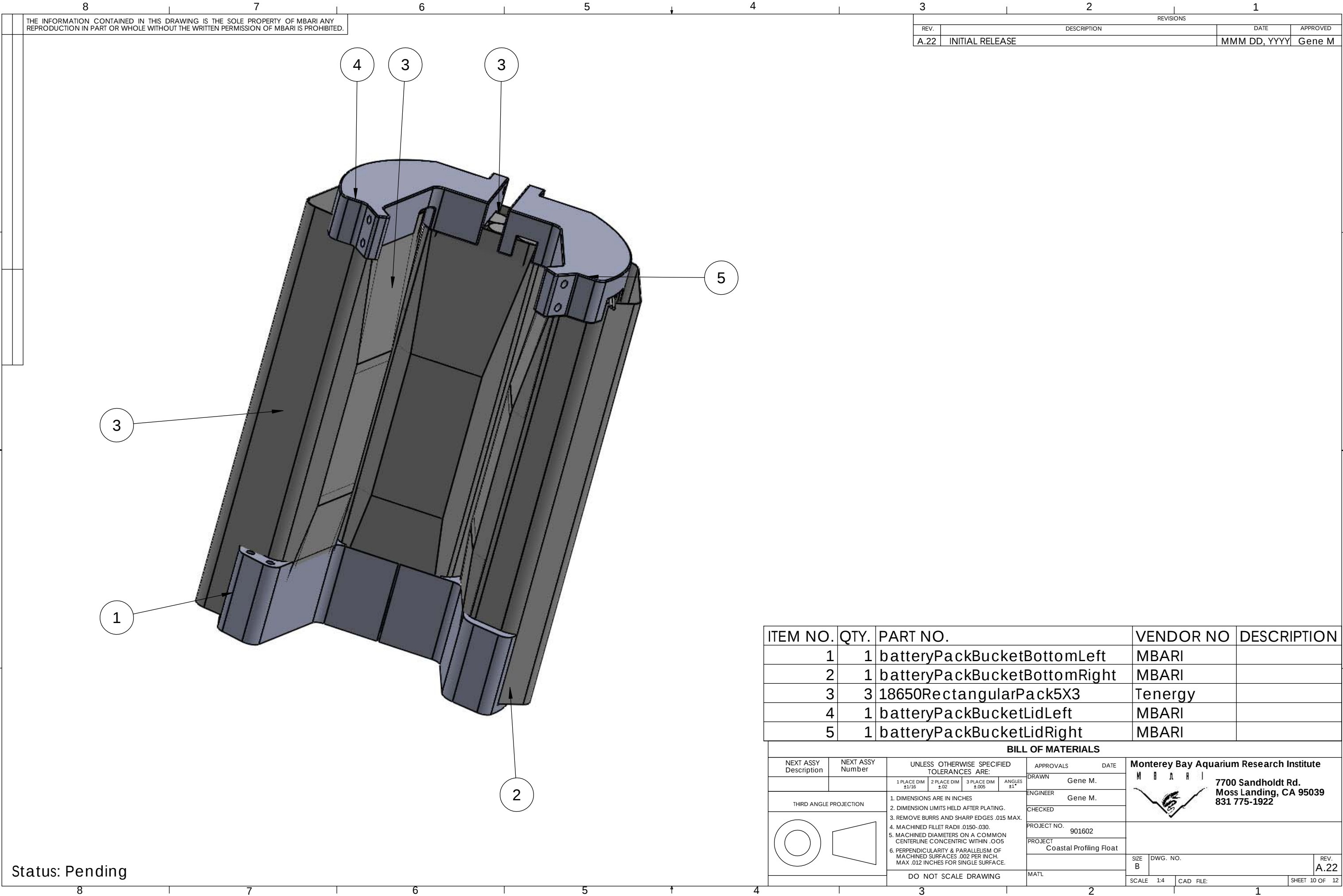
| BILL OF MATERIALS      |                  |                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                      |               |             |                         |                                                                                                                                                                                                                                                              |              |
|------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------|---------------|-------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| NEXT ASSY Description  | NEXT ASSY Number | UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:                                                                                                                                                                                                                                                                                                                                                             |                     |                      |               | APPROVALS   | DATE                    | <div>Monterey Bay Aquarium Research Institute</div> <div><div>M B A R I</div><div></div><div>7700 Sandholdt Rd.<br/>Moss Landing, CA 95039<br/>831 775-1922</div></div> |              |
|                        |                  | 1 PLACE DIM<br>±1/16                                                                                                                                                                                                                                                                                                                                                                                   | 2 PLACE DIM<br>±.02 | 3 PLACE DIM<br>±.005 | ANGLES<br>±1° | DRAWN       | Gene M.                 |                                                                                                                                                                                                                                                              |              |
| THIRD ANGLE PROJECTION |                  | <div>1. DIMENSIONS ARE IN INCHES</div> <div>2. DIMENSION LIMITS HELD AFTER PLATING.</div> <div>3. REMOVE BURRS AND SHARP EDGES .015 MAX.</div> <div>4. MACHINED FILLET RADII .0150-.030.</div> <div>5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005</div> <div>6. PERPENDICULARITY &amp; PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.</div> |                     |                      |               | ENGINEER    | Gene M.                 |                                                                                                                                                                                                                                                              |              |
|                        |                  |                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                      |               | CHECKED     |                         |                                                                                                                                                                                                                                                              |              |
|                        |                  |                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                      |               | PROJECT NO. | 901602                  |                                                                                                                                                                                                                                                              |              |
|                        |                  |                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                      |               | PROJECT     | Coastal Profiling Float |                                                                                                                                                                                                                                                              |              |
|                        |                  |                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                      |               | MAT'L       |                         | SIZE<br>B                                                                                                                                                                                                                                                    | REV.<br>A.24 |
|                        |                  | DO NOT SCALE DRAWING                                                                                                                                                                                                                                                                                                                                                                                   |                     |                      |               |             |                         | SCALE 1:4                                                                                                                                                                                                                                                    | CAD FILE:    |
|                        |                  |                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                      |               |             |                         | SHEET 8 OF 12                                                                                                                                                                                                                                                |              |

Status: Pending



| ITEM NO. | QTY. | PART NO.                     | VENDOR NO | DESCRIPTION |
|----------|------|------------------------------|-----------|-------------|
| 1        | 3    | flexboy1L                    | Stedim    |             |
| 2        | 1    | flatReservoirManifold        | MBARI     |             |
| 3        | 2    | bagBase                      | MBARI     |             |
| 4        | 4    | rackHanger                   | MBARI     |             |
| 5        | 5    | oilResRackSpacer             | MBARI     |             |
| 6        | 16   | 8940K152Spacer               | McMaster  |             |
| 7        | 8    | Regular FW 0.164             | McMaster  |             |
| 8        | 4    | Regular LW 0.164             | McMaster  |             |
| 9        | 4    | MSHXNUT 0.164-32-S-N         | McMaster  |             |
| 10       | 4    | HX-SHCS 0.164-32x0.25x0.25-N | McMaster  |             |

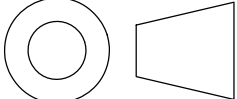
| BILL OF MATERIALS                                                                     |                  |                                                                                                                                                                                                                                                                                                                                                                                                       |                     |                      |               |             |          |                         |              |                                                                                                                                                                                                                                                 |               |
|---------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------|---------------|-------------|----------|-------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| NEXT ASSY Description                                                                 | NEXT ASSY Number | UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:                                                                                                                                                                                                                                                                                                                                                            |                     |                      |               | APPROVALS   |          | DATE                    |              | <div>Monterey Bay Aquarium Research Institute</div> <div>MBARI</div> <div></div> <div>7700 Sandholdt Rd.<br/>Moss Landing, CA 95039<br/>831 775-1922</div> |               |
|                                                                                       |                  | 1 PLACE DIM<br>±1/16                                                                                                                                                                                                                                                                                                                                                                                  | 2 PLACE DIM<br>±.02 | 3 PLACE DIM<br>±.005 | ANGLES<br>±1° | DRAWN       | Gene M.  |                         |              |                                                                                                                                                                                                                                                 |               |
| THIRD ANGLE PROJECTION                                                                |                  | <div>1. DIMENSIONS ARE IN INCHES</div> <div>2. DIMENSION LIMITS HELD AFTER PLATING.</div> <div>3. REMOVE BURRS AND SHARP EDGES .015 MAX.</div> <div>4. MACHINED FILLET RADII .0150-.030.</div> <div>5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005</div> <div>6. PERPENDICULARITY &amp; PARALLELISM OF MACHINED SURFACES .002 PER INCH MAX .012 INCHES FOR SINGLE SURFACE.</div> |                     |                      |               | ENGINEER    | Gene M.  |                         |              |                                                                                                                                                                                                                                                 |               |
|                                                                                       |                  |                                                                                                                                                                                                                                                                                                                                                                                                       |                     |                      |               | CHECKED     |          |                         |              |                                                                                                                                                                                                                                                 |               |
|  |                  |                                                                                                                                                                                                                                                                                                                                                                                                       |                     |                      |               | PROJECT NO. |          | 901602                  |              |                                                                                                                                                                                                                                                 |               |
|                                                                                       |                  |                                                                                                                                                                                                                                                                                                                                                                                                       |                     |                      |               | PROJECT     |          | Coastal Profiling Float |              |                                                                                                                                                                                                                                                 |               |
|                                                                                       |                  |                                                                                                                                                                                                                                                                                                                                                                                                       |                     |                      |               | SIZE<br>B   | DWG. NO. |                         | REV.<br>A.78 |                                                                                                                                                                                                                                                 |               |
|                                                                                       |                  | DO NOT SCALE DRAWING                                                                                                                                                                                                                                                                                                                                                                                  |                     |                      |               | MAT'L       |          | SCALE 1:4               |              | CAD FILE:                                                                                                                                                                                                                                       | SHEET 9 OF 12 |



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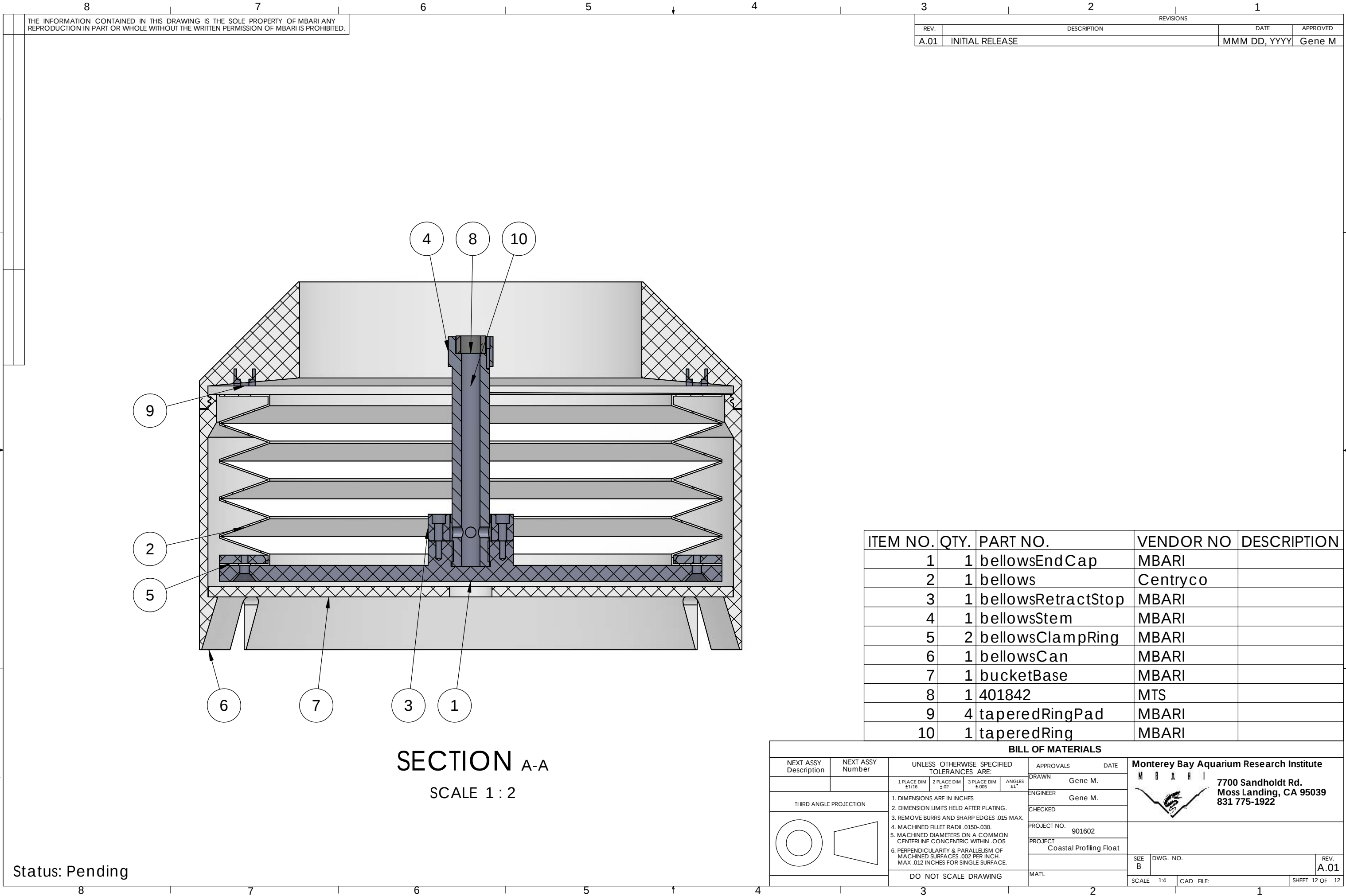
| REVISIONS |                 |              |          |
|-----------|-----------------|--------------|----------|
| REV.      | DESCRIPTION     | DATE         | APPROVED |
| A.22      | INITIAL RELEASE | MMM DD, YYYY | Gene M   |

| ITEM NO. | QTY. | PART NO.                     | VENDOR NO | DESCRIPTION |
|----------|------|------------------------------|-----------|-------------|
| 1        | 1    | batteryPackBucketBottomLeft  | MBARI     |             |
| 2        | 1    | batteryPackBucketBottomRight | MBARI     |             |
| 3        | 3    | 18650RectangularPack5X3      | Tenergy   |             |
| 4        | 1    | batteryPackBucketLidLeft     | MBARI     |             |
| 5        | 1    | batteryPackBucketLidRight    | MBARI     |             |

| BILL OF MATERIALS                                                                                                                                                                                                                        |                  |                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                      |               |                                    |           |  |                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------|---------------|------------------------------------|-----------|--|----------------|
| NEXT ASSY Description                                                                                                                                                                                                                    | NEXT ASSY Number | UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:                                                                                                                                                                                                                                                                                                                                                             |                     |                      | APPROVALS     |                                    | DATE      |  |                |
|                                                                                                                                                                                                                                          |                  | 1 PLACE DIM<br>±1/16                                                                                                                                                                                                                                                                                                                                                                                   | 2 PLACE DIM<br>±.02 | 3 PLACE DIM<br>±.005 | ANGLES<br>±1° | DRAWN                              | Gene M.   |  |                |
| THIRD ANGLE PROJECTION                                                                                                                                                                                                                   |                  | <div>1. DIMENSIONS ARE IN INCHES</div> <div>2. DIMENSION LIMITS HELD AFTER PLATING.</div> <div>3. REMOVE BURRS AND SHARP EDGES .015 MAX.</div> <div>4. MACHINED FILLET RADII .0150-.030.</div> <div>5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005</div> <div>6. PERPENDICULARITY &amp; PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.</div> |                     |                      |               | ENGINEER                           | Gene M.   |  |                |
|                                                                                                                                                                                                                                          |                  |                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                      |               | CHECKED                            |           |  |                |
|                                                                                                                                                                                                                                          |                  |                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                      |               | PROJECT NO.<br>901602              |           |  |                |
|                                                                                                                                                                                                                                          |                  |                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                      |               | PROJECT<br>Coastal Profiling Float |           |  |                |
|                                                                                                                                                                                                                                          |                  |                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                      |               |                                    |           |  |                |
|                                                                                                                                                     |                  |                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                      |               | SIZE<br>B                          | DWG. NO.  |  | REV.<br>A.22   |
|                                                                                                                                                                                                                                          |                  |                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                      |               | SCALE 1:4                          | CAD FILE: |  | SHEET 10 OF 12 |
|                                                                                                                                                                                                                                          |                  | DO NOT SCALE DRAWING                                                                                                                                                                                                                                                                                                                                                                                   |                     |                      |               | MAT'L                              |           |  |                |
| <div>Monterey Bay Aquarium Research Institute</div> <div>M B A R I</div> <div> 7700 Sandholdt Rd.<br/>Moss Landing, CA 95039<br/>831 775-1922</div> |                  |                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                      |               |                                    |           |  |                |

Status: Pending

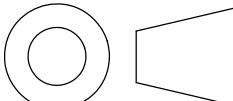




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| REVISIONS |                 |              |          |
|-----------|-----------------|--------------|----------|
| REV.      | DESCRIPTION     | DATE         | APPROVED |
| A.01      | INITIAL RELEASE | MMM DD, YYYY | Gene M   |

| ITEM NO. | QTY. | PART NO.           | VENDOR NO | DESCRIPTION |
|----------|------|--------------------|-----------|-------------|
| 1        | 1    | bellowsEndCap      | MBARI     |             |
| 2        | 1    | bellows            | Centryco  |             |
| 3        | 1    | bellowsRetractStop | MBARI     |             |
| 4        | 1    | bellowsStem        | MBARI     |             |
| 5        | 2    | bellowsClampRing   | MBARI     |             |
| 6        | 1    | bellowsCan         | MBARI     |             |
| 7        | 1    | bucketBase         | MBARI     |             |
| 8        | 1    | 401842             | MTS       |             |
| 9        | 4    | taperedRingPad     | MBARI     |             |
| 10       | 1    | taperedRing        | MBARI     |             |

| BILL OF MATERIALS                                                                     |                  |                                                                                                                                                                                                                                                                                                                                                                                                        |                  |                   |            |             |                         |           |                                                                                                                                                                                                                                                     |                |
|---------------------------------------------------------------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------|------------|-------------|-------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| NEXT ASSY Description                                                                 | NEXT ASSY Number | UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:                                                                                                                                                                                                                                                                                                                                                             |                  |                   |            | APPROVALS   |                         | DATE      |                                                                                                                                                                                                                                                     |                |
|                                                                                       |                  | 1 PLACE DIM ±1/16                                                                                                                                                                                                                                                                                                                                                                                      | 2 PLACE DIM ±.02 | 3 PLACE DIM ±.005 | ANGLES ±1° | DRAWN       | Gene M.                 |           | <div>Monterey Bay Aquarium Research Institute</div> <div>M B A R I</div> <div></div> <div>7700 Sandholdt Rd.<br/>Moss Landing, CA 95039<br/>831 775-1922</div> |                |
| THIRD ANGLE PROJECTION                                                                |                  | <div>1. DIMENSIONS ARE IN INCHES</div> <div>2. DIMENSION LIMITS HELD AFTER PLATING.</div> <div>3. REMOVE BURRS AND SHARP EDGES .015 MAX.</div> <div>4. MACHINED FILLET RADII .0150-.030.</div> <div>5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005</div> <div>6. PERPENDICULARITY &amp; PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.</div> |                  |                   |            | ENGINEER    | Gene M.                 |           |                                                                                                                                                                                                                                                     |                |
|                                                                                       |                  |                                                                                                                                                                                                                                                                                                                                                                                                        |                  |                   |            | CHECKED     |                         |           |                                                                                                                                                                                                                                                     |                |
|                                                                                       |                  |                                                                                                                                                                                                                                                                                                                                                                                                        |                  |                   |            | PROJECT NO. | 901602                  |           |                                                                                                                                                                                                                                                     |                |
|                                                                                       |                  |                                                                                                                                                                                                                                                                                                                                                                                                        |                  |                   |            | PROJECT     | Coastal Profiling Float |           |                                                                                                                                                                                                                                                     |                |
|  |                  | DO NOT SCALE DRAWING                                                                                                                                                                                                                                                                                                                                                                                   |                  |                   |            | MAT'L       |                         | SIZE B    | DWG. NO.                                                                                                                                                                                                                                            | REV. A.01      |
|                                                                                       |                  |                                                                                                                                                                                                                                                                                                                                                                                                        |                  |                   |            |             |                         | SCALE 1:4 | CAD FILE:                                                                                                                                                                                                                                           | SHEET 12 OF 12 |

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