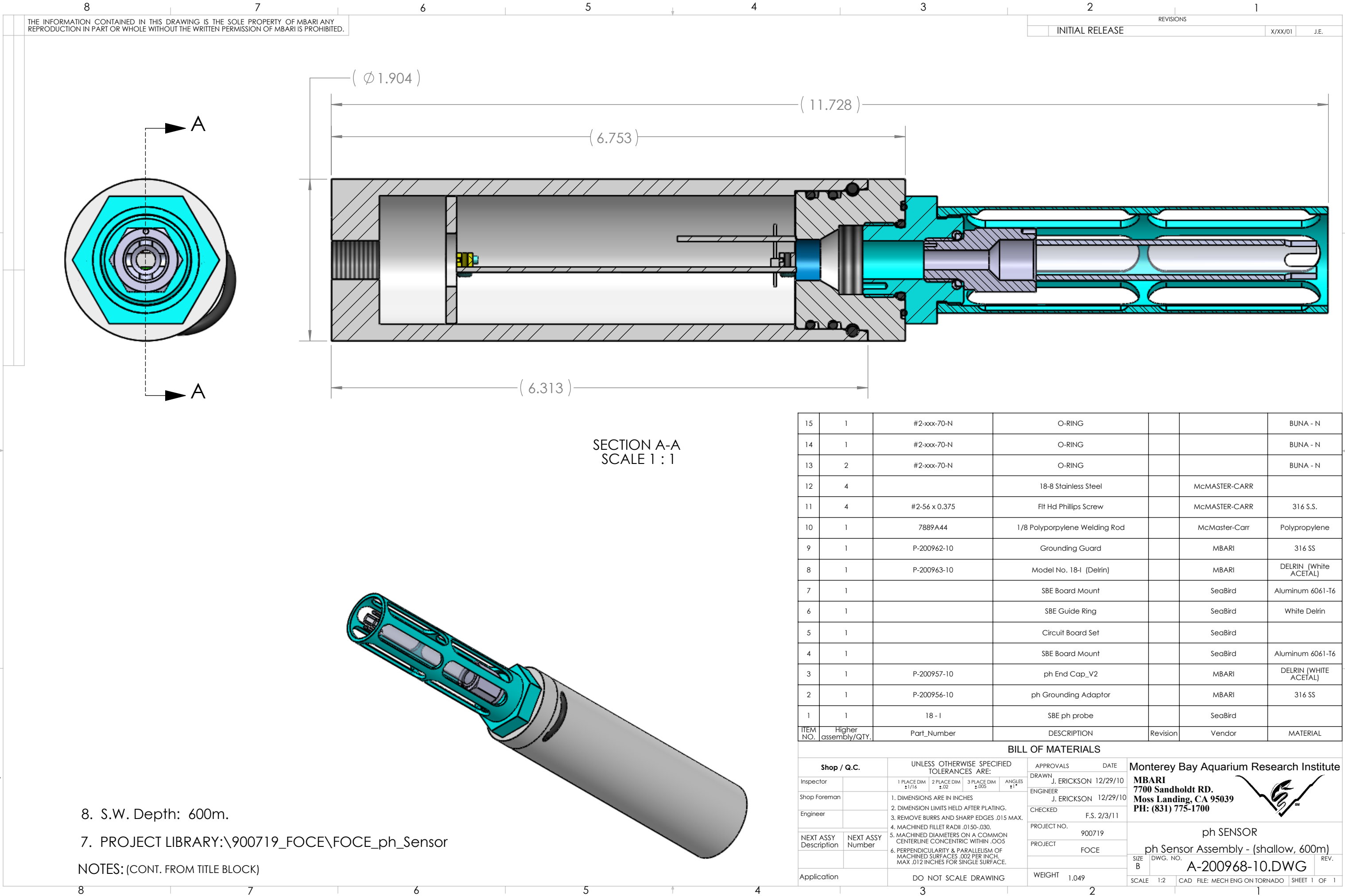




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| REVISIONS       |         |      |
|-----------------|---------|------|
| INITIAL RELEASE | X/XX/01 | J.E. |

SECTION A-A  
SCALE 1 : 1

|          |                      |               |                               |          |               |                        |
|----------|----------------------|---------------|-------------------------------|----------|---------------|------------------------|
| 15       | 1                    | #2-xxx-70-N   | O-RING                        |          |               | BUNA - N               |
| 14       | 1                    | #2-xxx-70-N   | O-RING                        |          |               | BUNA - N               |
| 13       | 2                    | #2-xxx-70-N   | O-RING                        |          |               | BUNA - N               |
| 12       | 4                    |               | 18-8 Stainless Steel          |          | McMASTER-CARR |                        |
| 11       | 4                    | #2-56 x 0.375 | Flt Hd Phillips Screw         |          | McMASTER-CARR | 316 S.S.               |
| 10       | 1                    | 7889A44       | 1/8 Polyporpylene Welding Rod |          | McMaster-Carr | Polypropylene          |
| 9        | 1                    | P-200962-10   | Grounding Guard               |          | MBARI         | 316 SS                 |
| 8        | 1                    | P-200963-10   | Model No. 18-I (Delrin)       |          | MBARI         | DELIRIN (White ACETAL) |
| 7        | 1                    |               | SBE Board Mount               |          | SeaBird       | Aluminum 6061-T6       |
| 6        | 1                    |               | SBE Guide Ring                |          | SeaBird       | White Delrin           |
| 5        | 1                    |               | Circuit Board Set             |          | SeaBird       |                        |
| 4        | 1                    |               | SBE Board Mount               |          | SeaBird       | Aluminum 6061-T6       |
| 3        | 1                    | P-200957-10   | ph End Cap_V2                 |          | MBARI         | DELIRIN (WHITE ACETAL) |
| 2        | 1                    | P-200956-10   | ph Grounding Adaptor          |          | MBARI         | 316 SS                 |
| 1        | 1                    | 18 - I        | SBE ph probe                  |          | SeaBird       |                        |
| ITEM NO. | Higher assembly/QTY. | Part_Number   | DESCRIPTION                   | Revision | Vendor        | MATERIAL               |

BILL OF MATERIALS

| Shop / Q.C.           |                  | UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:                                                                                                                                                                                                                                                                                                      |                     |                      |               | APPROVALS   |             | DATE     | Monterey Bay Aquarium Research Institute                                                                                                                                                         |  |        |      |
|-----------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------|---------------|-------------|-------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------|------|
| Inspector             |                  | 1 PLACE DIM<br>±1/16                                                                                                                                                                                                                                                                                                                            | 2 PLACE DIM<br>±.02 | 3 PLACE DIM<br>±.005 | ANGLES<br>±1° | DRAWN       | J. ERICKSON | 12/29/10 | <b>MBARI</b><br><b>7700 Sandholdt RD.</b><br><b>Moss Landing, CA 95039</b><br><b>PH: (831) 775-1700</b><br> |  |        |      |
| 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    | J. ERICKSON | 12/29/10 |                                                                                                                                                                                                  |  |        |      |
| Engineer              |                  |                                                                                                                                                                                                                                                                                                                                                 |                     |                      |               | CHECKED     | F.S.        | 2/3/11   |                                                                                                                                                                                                  |  |        |      |
| NEXT ASSY Description | NEXT ASSY Number |                                                                                                                                                                                                                                                                                                                                                 |                     |                      |               | PROJECT NO. | 900719      |          | ph SENSOR<br>ph Sensor Assembly - (shallow, 600m)<br>A-200968-10.DWG                                                                                                                             |  |        |      |
|                       |                  |                                                                                                                                                                                                                                                                                                                                                 |                     |                      |               | PROJECT     | FOCE        |          |                                                                                                                                                                                                  |  | SIZE B | REV. |
| Application           |                  | DO NOT SCALE DRAWING                                                                                                                                                                                                                                                                                                                            |                     |                      |               | WEIGHT      | 1.049       |          | SCALE 1:2 CAD FILE: MECH ENG ON TORNADO SHEET 1 OF 1                                                                                                                                             |  |        |      |

8. S.W. Depth: 600m.

7. PROJECT LIBRARY:\900719\_FOCE\FOCE\_ph\_Sensor

NOTES: (CONT. FROM TITLE BLOCK)