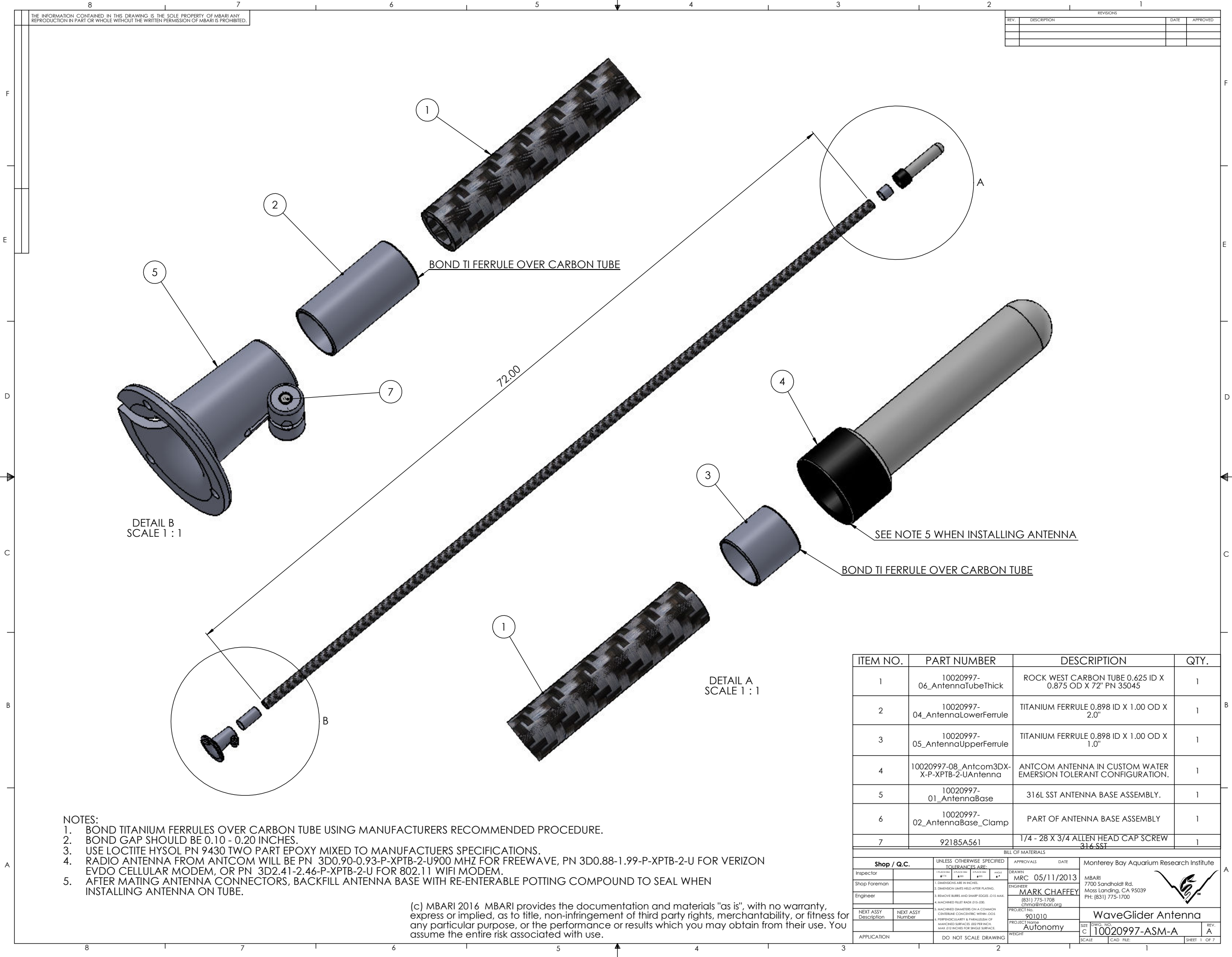




- NOTES:
1. BOND TITANIUM FERRULES OVER CARBON TUBE USING MANUFACTURERS RECOMMENDED PROCEDURE.
  2. BOND GAP SHOULD BE 0.10 - 0.20 INCHES.
  3. USE LOCTITE HYSOL PN 9430 TWO PART EPOXY MIXED TO MANUFACTUERS SPECIFICATIONS.
  4. RADIO ANTENNA FROM ANTCOM WILL BE PN 3D0.90-0.93-P-XTB-2-U900 MHZ FOR FREEWAVE, PN 3D0.88-1.99-P-XTB-2-U FOR VERIZON EVDO CELLULAR MODEM, OR PN 3D2.41-2.46-P-XTB-2-U FOR 802.11 WIFI MODEM.
  5. AFTER MATING ANTENNA CONNECTORS, BACKFILL ANTENNA BASE WITH RE-ENTERABLE POTTING COMPOUND TO SEAL WHEN INSTALLING ANTENNA ON TUBE.

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| ITEM NO. | PART NUMBER                              | DESCRIPTION                                                     | QTY. |
|----------|------------------------------------------|-----------------------------------------------------------------|------|
| 1        | 10020997-06_AntennaTubeThick             | ROCK WEST CARBON TUBE 0.625 ID X 0.875 OD X 72" PN 35045        | 1    |
| 2        | 10020997-04_AntennaLowerFerrule          | TITANIUM FERRULE 0.898 ID X 1.00 OD X 2.0"                      | 1    |
| 3        | 10020997-05_AntennaUpperFerrule          | TITANIUM FERRULE 0.898 ID X 1.00 OD X 1.0"                      | 1    |
| 4        | 10020997-08_Antcom3DX-X-P-XTB-2-UAntenna | ANTCOM ANTENNA IN CUSTOM WATER EMERSION TOLERANT CONFIGURATION. | 1    |
| 5        | 10020997-01_AntennaBase                  | 316L SST ANTENNA BASE ASSEMBLY.                                 | 1    |
| 6        | 10020997-02_AntennaBase_Clamp            | PART OF ANTENNA BASE ASSEMBLY                                   | 1    |
| 7        | 92185A561                                | 1/4 - 28 X 3/4 ALLEN HEAD CAP SCREW 316 SST                     | 1    |

|              |  |                                                                                                                                                                                                                                                                                                                                                                                    |              |                |                                          |
|--------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------|------------------------------------------|
| Shop / Q.C.  |  | UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:                                                                                                                                                                                                                                                                                                                                         | APPROVALS    | DATE           | Monterey Bay Aquarium Research Institute |
| Inspector    |  | FRACTIONAL DECIMAL INCHES MILLIMETERS                                                                                                                                                                                                                                                                                                                                              | DRAWN        | MRC 05/11/2013 | MBARI                                    |
| Shop Foreman |  | 1/16 1/32 1/64 .010 .020 .030 .050 .060 .070 .080 .090 .100 .125 .150 .175 .200 .250 .300 .375 .500 .625 .750 .875 1.00 1.25 1.50 1.75 2.00 2.50 3.00 3.75 4.00 5.00 6.00 7.00 8.00 10.00 12.00 15.00 20.00 25.00 30.00 35.00 40.00 50.00 60.00 70.00 80.00 90.00 100.00 125.00 150.00 175.00 200.00 250.00 300.00 350.00 400.00 450.00 500.00 600.00 700.00 800.00 900.00 1000.00 | ENGINEER     | MARK CHAFFEY   | 7700 Sandholdt Rd.                       |
| Engineer     |  | 1. DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN INCHES.                                                                                                                                                                                                                                                                                                                            |              |                | Moss Landing, CA 95039                   |
|              |  | 2. DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN MILLIMETERS.                                                                                                                                                                                                                                                                                                                       |              |                | Ph: (831) 775-1708                       |
|              |  | 3. REMOVE BURRS AND SHARP EDGES (D) IS MAX.                                                                                                                                                                                                                                                                                                                                        |              |                | chm@mbari.org                            |
|              |  | 4. MACHINED RADIUS (R) IS MAX.                                                                                                                                                                                                                                                                                                                                                     |              |                |                                          |
|              |  | 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCERNING WITHIN .005                                                                                                                                                                                                                                                                                                                | PROJECT NO.  | 901010         | WaveGlider Antenna                       |
|              |  | 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES (D) PER INCH. MAX .015 INCHES FOR SINGLE SURFACE.                                                                                                                                                                                                                                                                           | PROJECT NAME | Autonomy       | SIZE DWG. NO. 10020997-ASM-A             |
|              |  |                                                                                                                                                                                                                                                                                                                                                                                    | WEIGHT       |                | SCALE CAD FILE SHEET 1 OF 7              |
| APPLICATION  |  | DO NOT SCALE DRAWING                                                                                                                                                                                                                                                                                                                                                               |              |                |                                          |