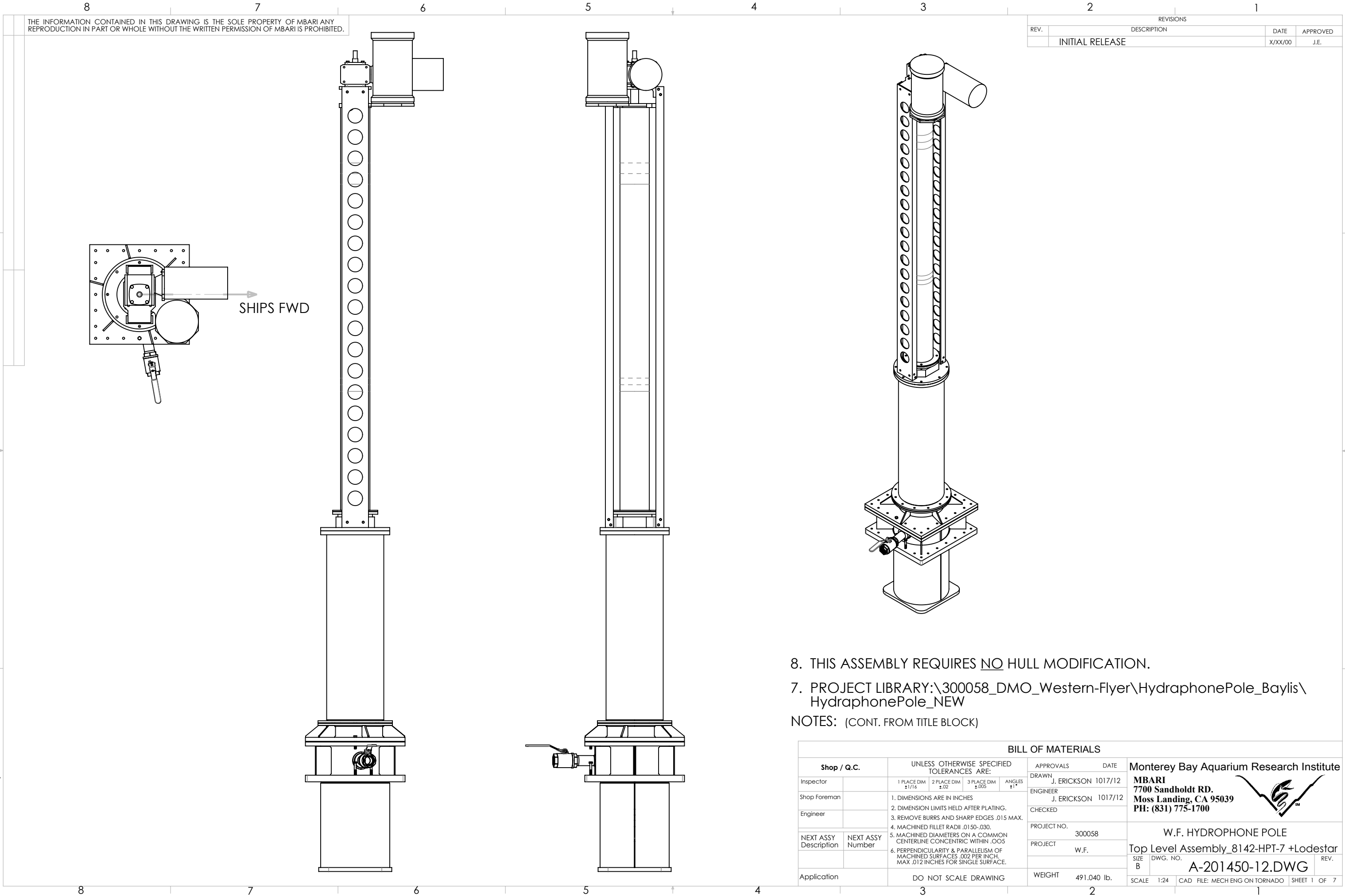
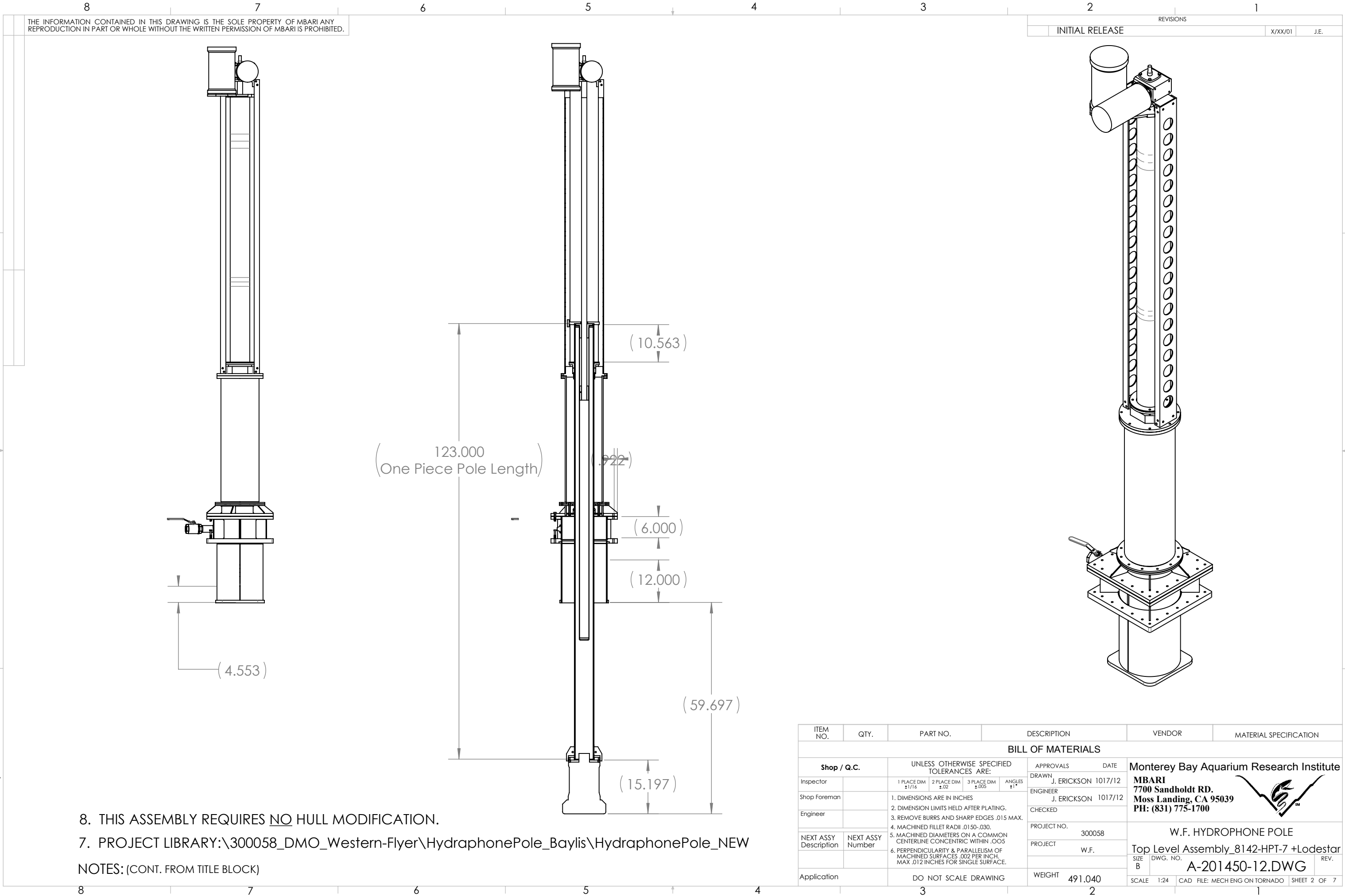
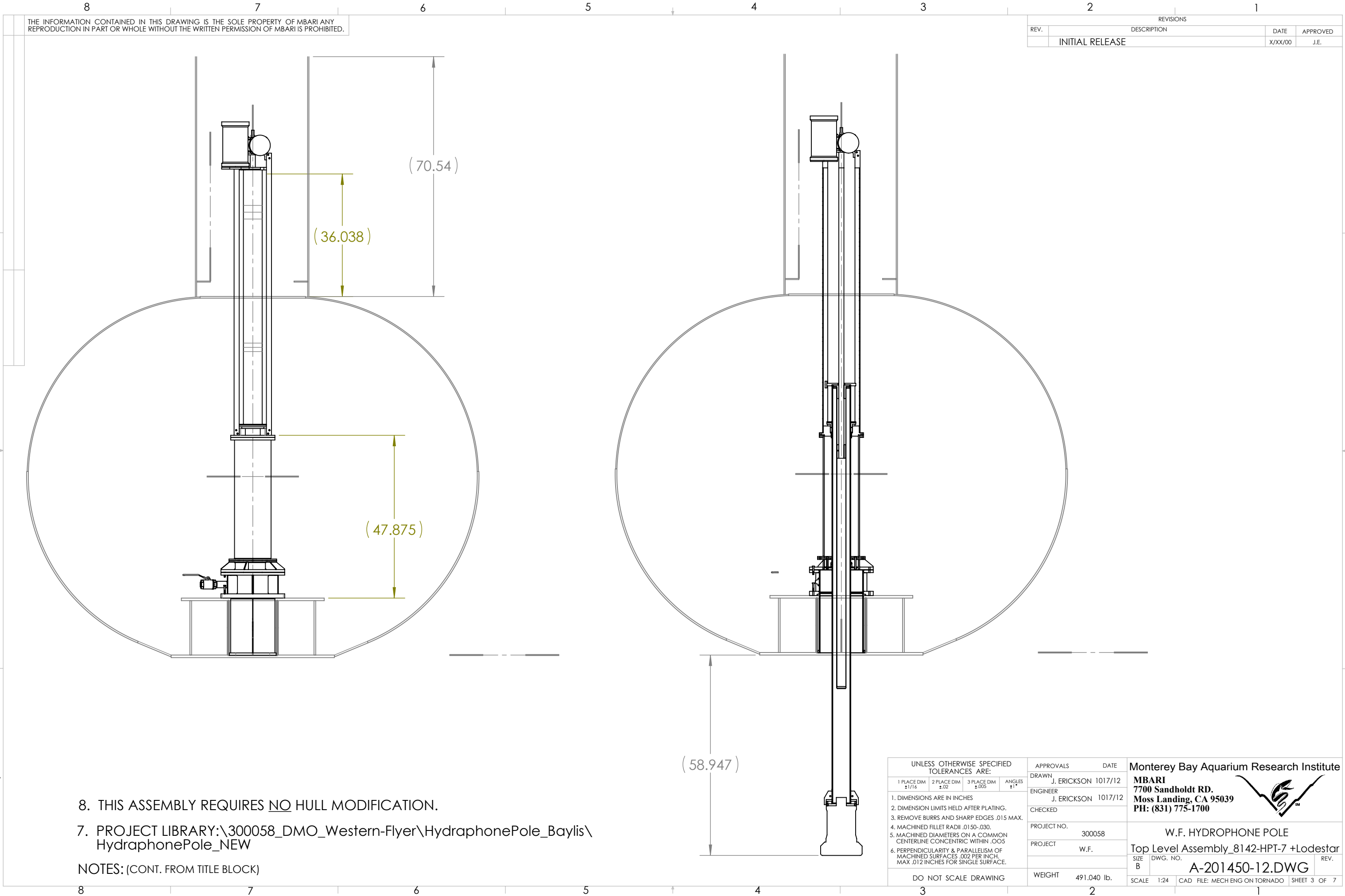








THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MBARI ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF MBARI IS PROHIBITED.

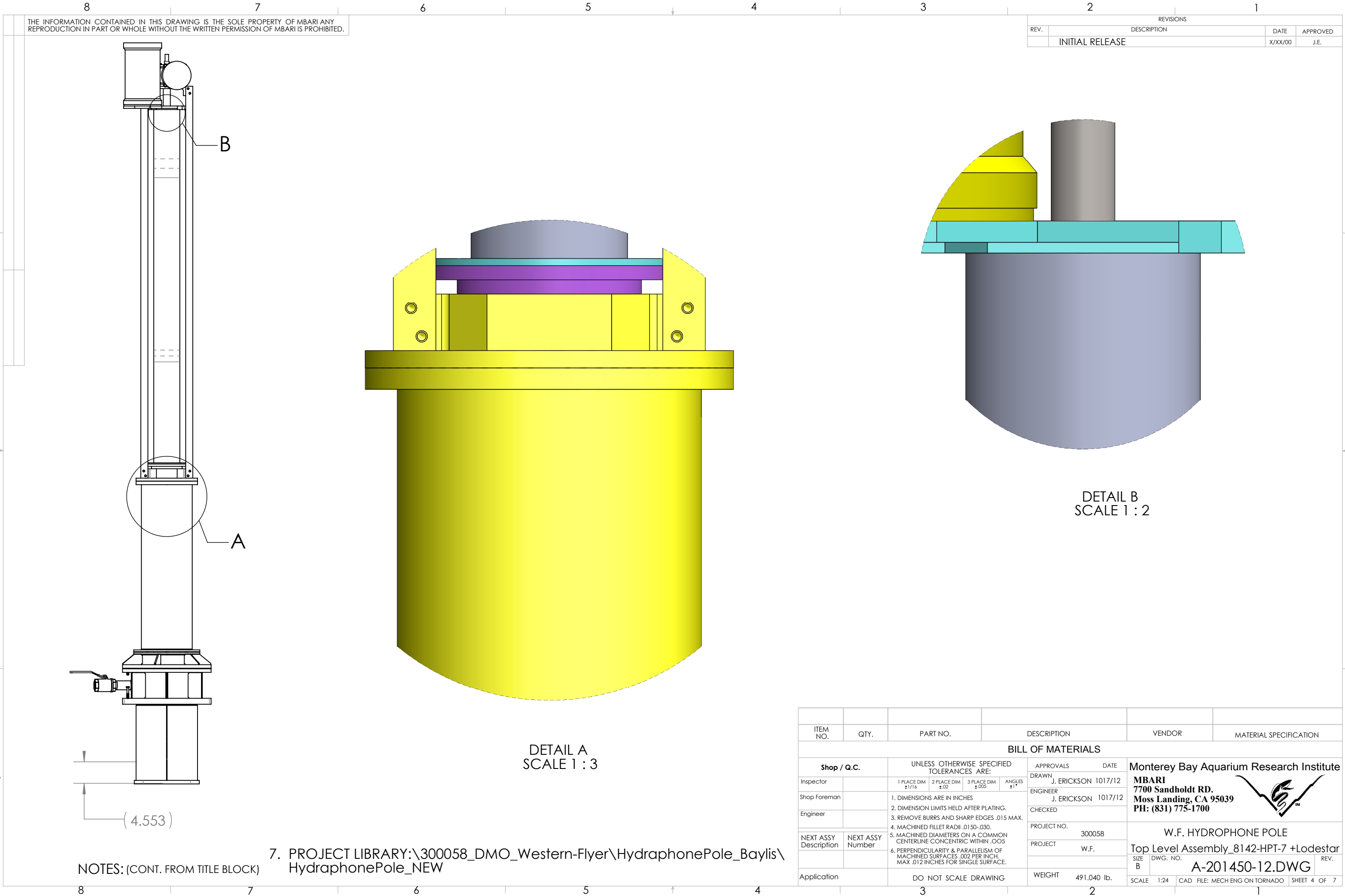
| REVISIONS |                 |         |          |
|-----------|-----------------|---------|----------|
| REV.      | DESCRIPTION     | DATE    | APPROVED |
|           | INITIAL RELEASE | X/XX/00 | J.E.     |

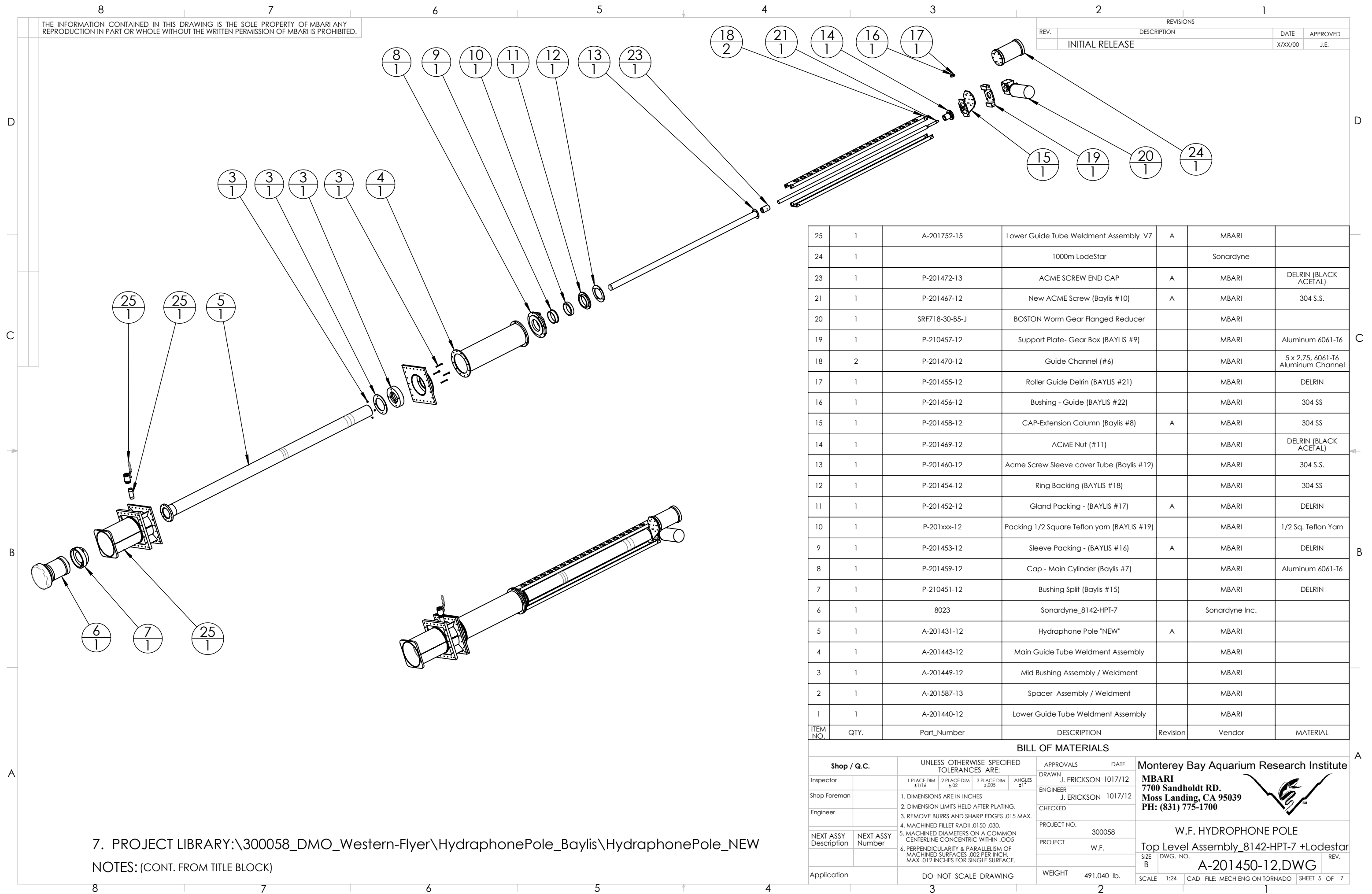
8. THIS ASSEMBLY REQUIRES NO HULL MODIFICATION.

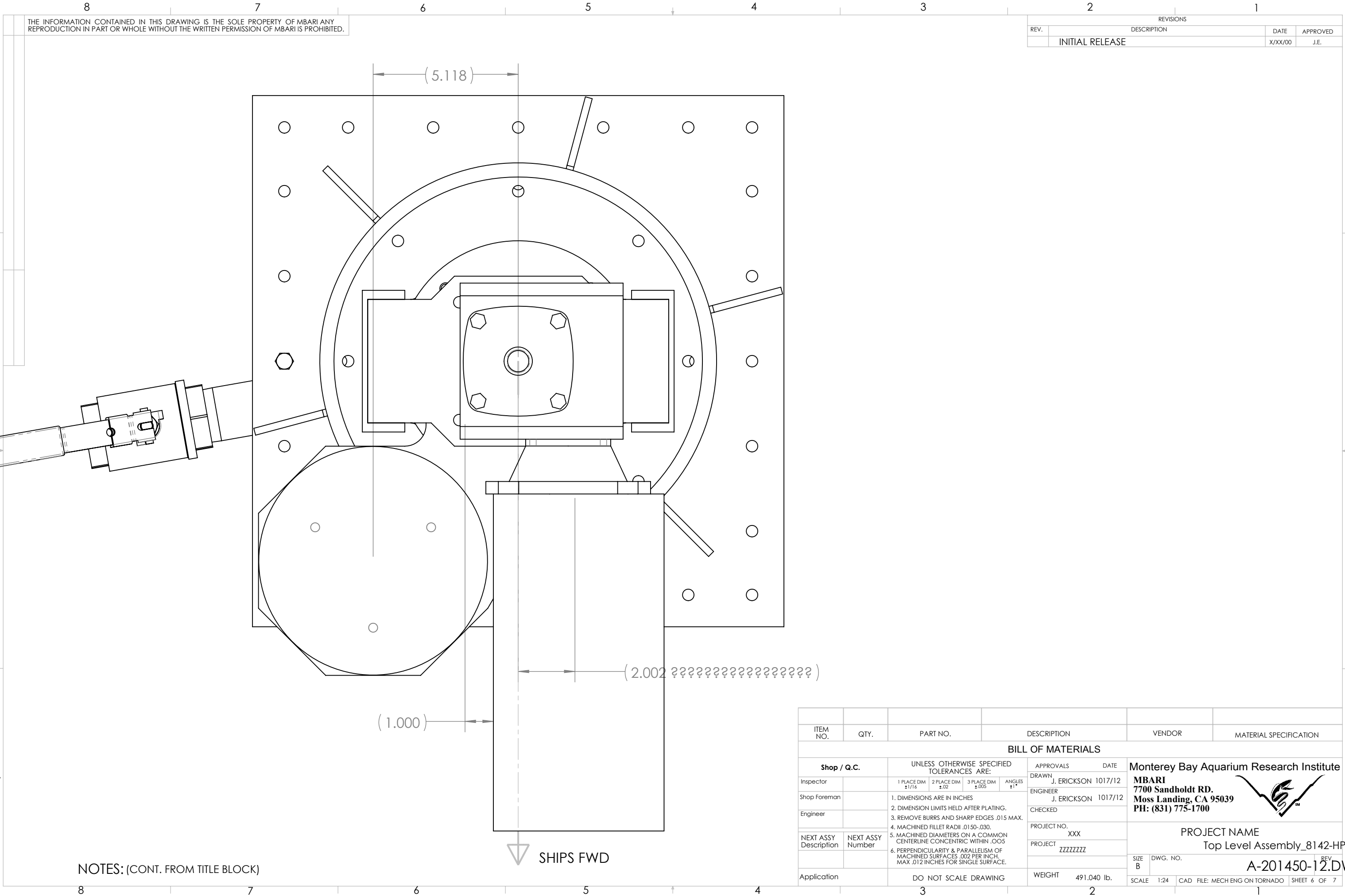
7. PROJECT LIBRARY:\300058\_DMO\_Western-Flyer\HydraphonePole\_Baylis\HydraphonePole\_NEW

NOTES: (CONT. FROM TITLE BLOCK)

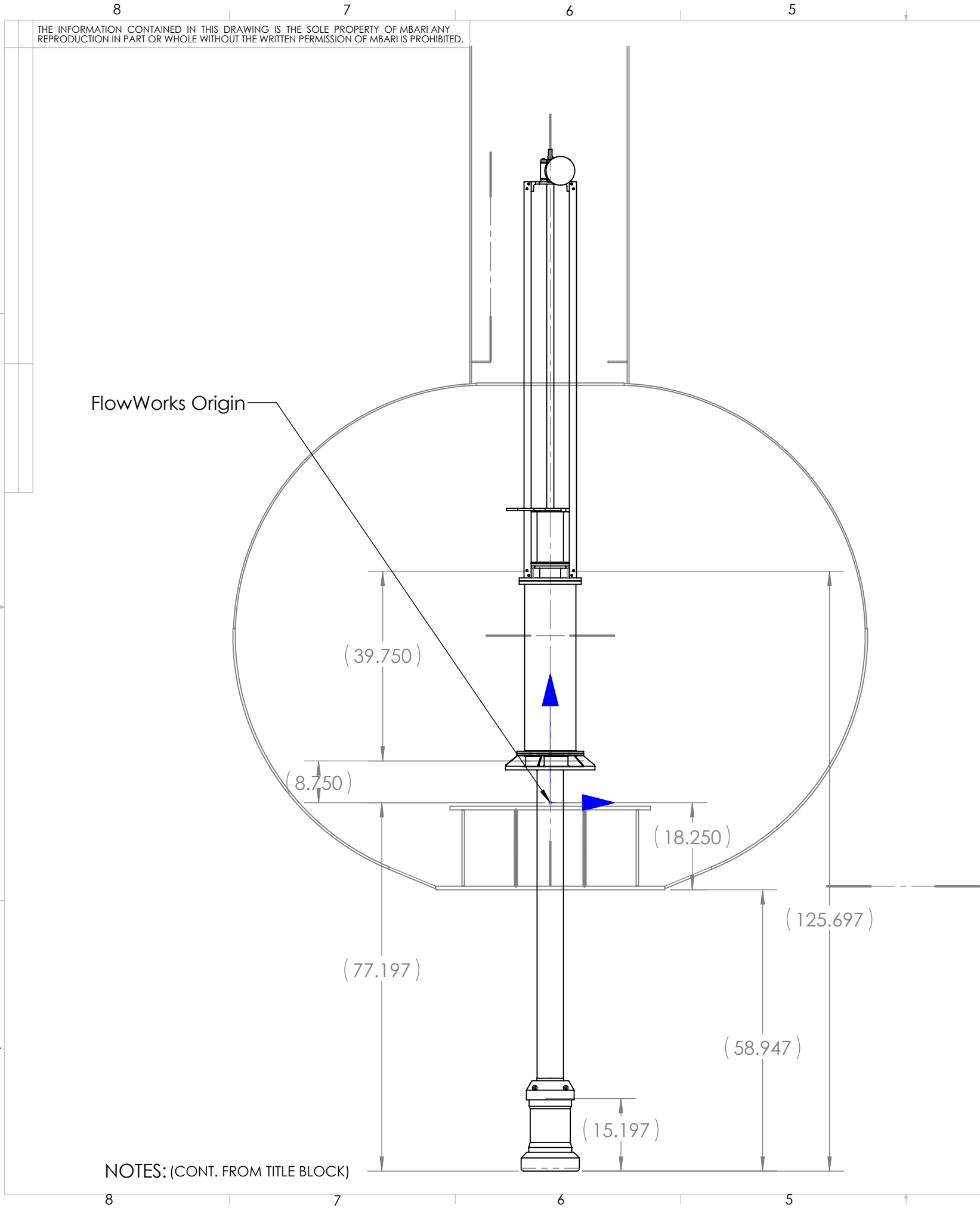
| UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:                                                                                                                                                                                                                                                                                                      |                     |                      |               | APPROVALS               | DATE        | Monterey Bay Aquarium Research Institute<br><b>MBARI</b><br>7700 Sandholdt RD.<br>Moss Landing, CA 95039<br>PH: (831) 775-1700 |                               |              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------|---------------|-------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------|
| 1 PLACE DIM<br>±1/16                                                                                                                                                                                                                                                                                                                            | 2 PLACE DIM<br>±.02 | 3 PLACE DIM<br>±.005 | ANGLES<br>±1° | DRAWN<br>J. ERICKSON    | 1017/12     |                                                                                                                                |                               |              |
| 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<br>J. ERICKSON | 1017/12     | W.F. HYDROPHONE POLE<br>Top Level Assembly_8142-HPT-7 +Lodestar                                                                |                               |              |
|                                                                                                                                                                                                                                                                                                                                                 |                     |                      |               | CHECKED                 |             |                                                                                                                                |                               |              |
|                                                                                                                                                                                                                                                                                                                                                 |                     |                      |               | PROJECT NO.             | 300058      | A-201450-12.DWG                                                                                                                |                               |              |
|                                                                                                                                                                                                                                                                                                                                                 |                     |                      |               | PROJECT                 | W.F.        |                                                                                                                                |                               |              |
|                                                                                                                                                                                                                                                                                                                                                 |                     |                      |               | WEIGHT                  | 491.040 lb. | SIZE<br>B                                                                                                                      | DWG. NO.                      | REV.         |
| DO NOT SCALE DRAWING                                                                                                                                                                                                                                                                                                                            |                     |                      |               |                         |             | SCALE 1:24                                                                                                                     | CAD FILE: MECH ENG ON TORNADO | SHEET 3 OF 7 |



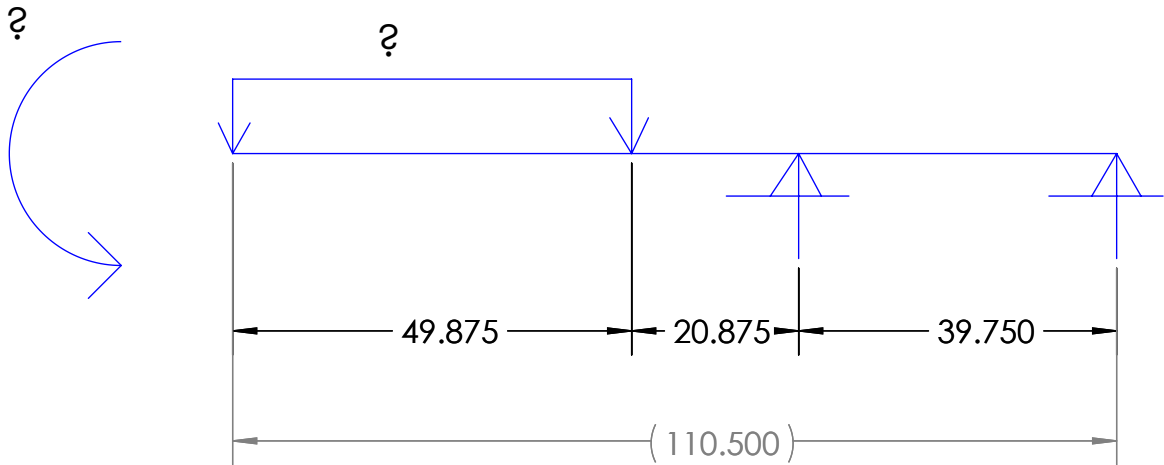
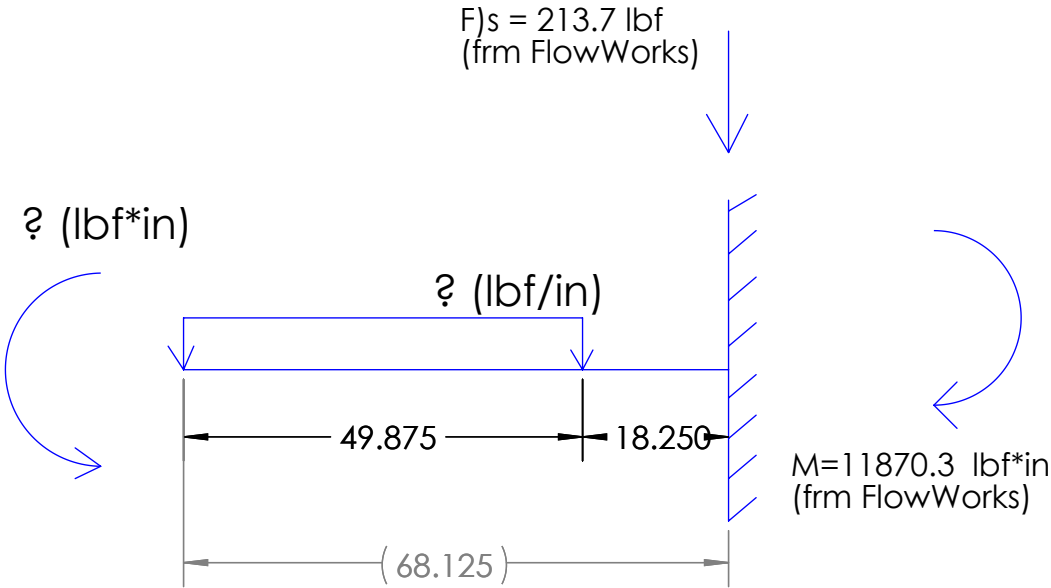








| REVISIONS |                 |         |          |
|-----------|-----------------|---------|----------|
| REV.      | DESCRIPTION     | DATE    | APPROVED |
|           | INITIAL RELEASE | X/XX/00 | J.E.     |



| ITEM NO.                                                                              | QTY.             | PART NO.                                                                                                  | DESCRIPTION         | VENDOR               | MATERIAL SPECIFICATION        |
|---------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------------------------------|---------------------|----------------------|-------------------------------|
| BILL OF MATERIALS                                                                     |                  |                                                                                                           |                     |                      |                               |
| Shop / Q.C.                                                                           |                  | UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:                                                                |                     | APPROVALS DATE       |                               |
| Inspector                                                                             |                  | 1 PLACE DIM<br>±1/16                                                                                      | 2 PLACE DIM<br>±.02 | 3 PLACE DIM<br>±.005 | ANGLES<br>±1°                 |
| Shop Foreman                                                                          |                  | 1. DIMENSIONS ARE IN INCHES                                                                               |                     |                      |                               |
| Engineer                                                                              |                  | 2. DIMENSION LIMITS HELD AFTER PLATING.                                                                   |                     |                      |                               |
|                                                                                       |                  | 3. REMOVE BURRS AND SHARP EDGES .015 MAX.                                                                 |                     |                      |                               |
|                                                                                       |                  | 4. MACHINED FILLET RADII .0150-.030.                                                                      |                     |                      |                               |
| NEXT ASSY Description                                                                 | NEXT ASSY Number | 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. |                     |                      |                               |
| Application                                                                           |                  | DO NOT SCALE DRAWING                                                                                      |                     | WEIGHT               | 491.040 lb.                   |
|                                                                                       |                  |                                                                                                           |                     | SIZE B               | DWG. NO.                      |
|                                                                                       |                  |                                                                                                           |                     | SCALE 1:24           | CAD FILE: MECH ENG ON TORNADO |
|                                                                                       |                  |                                                                                                           |                     | SHEET 7              | OF 7                          |
| Monterey Bay Aquarium Research Institute                                              |                  |                                                                                                           |                     |                      |                               |
| MBARI<br>7700 Sandholdt RD.<br>Moss Landing, CA 95039<br>PH: (831) 775-1700           |                  |                                                                                                           |                     |                      |                               |
|  |                  |                                                                                                           |                     |                      |                               |
| PROJECT NAME                                                                          |                  |                                                                                                           |                     |                      |                               |
| Top Level Assembly_8142-HF                                                            |                  |                                                                                                           |                     |                      |                               |
| A-201450-12.D                                                                         |                  |                                                                                                           |                     |                      |                               |