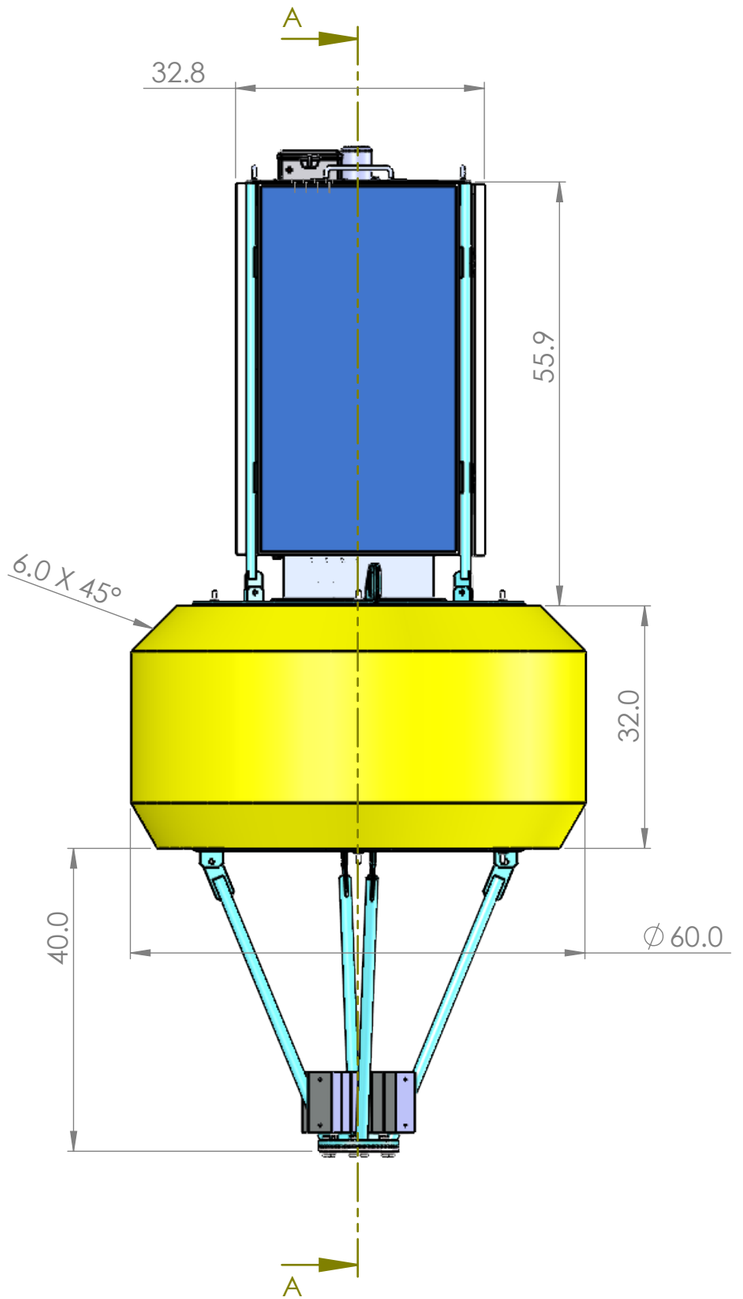

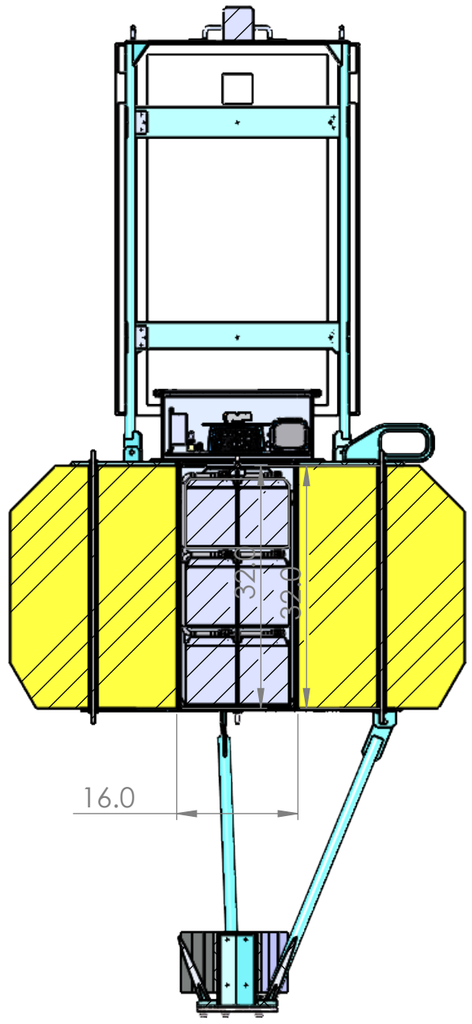

SECTION A-A
SCALE 1 : 20

AUV docking buoy characteristics

Mass: 1040 lbs, including 12 lead bricks and 6 batteries
Center of mass: 23.7" below deck
Waterline: 21.7" below deck

Moments of inertia: (lb * in^2)
Taken at the center of mass and aligned with the output coordinate system. (X axis pointing up)

Lxx = 1344979	Lxy = -548	Lxz = -23.3
Lyx = -548	Lyy = 150484	Lyz = 2834
Lzx = -23.3	Lzy = 2834	Lzz = 1343206

Volume of hardware below float: 1152 in3
Equivalent cylinder: 40" long, 6" diameter
Projected area of hardware below float: 500 in2.

Total displacement below deck: 49.8 CF (3187 lb flotation)

Updated 10/20/2022

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 Francois Cazenave
ENGINEER Francois Cazenave
CHECKED
PROJECT NO.
PROJECT
WEIGHT lb.

Monterey Bay Aquarium Research Institute
MBARI
7700 Sandholdt RD.
Moss Landing, CA 95039
PH: (831) 775-1700

Docking Buoy 2

SIZE B | DWG. NO. | REV.
SCALE 1:50 | SHEET 1 OF 1