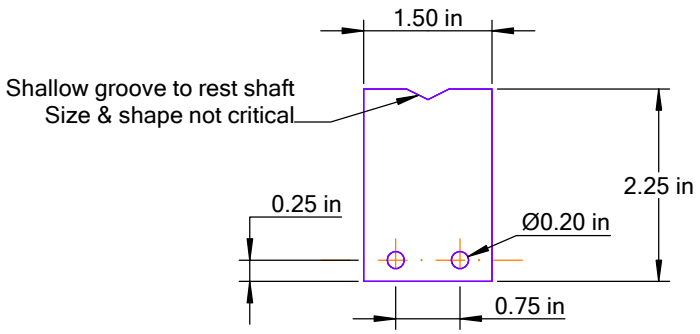
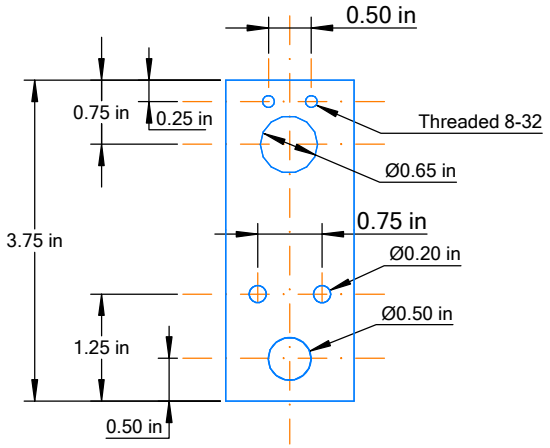
Digital Swingweight Scale Arm	DaveT 3/3/2015	3D rendering

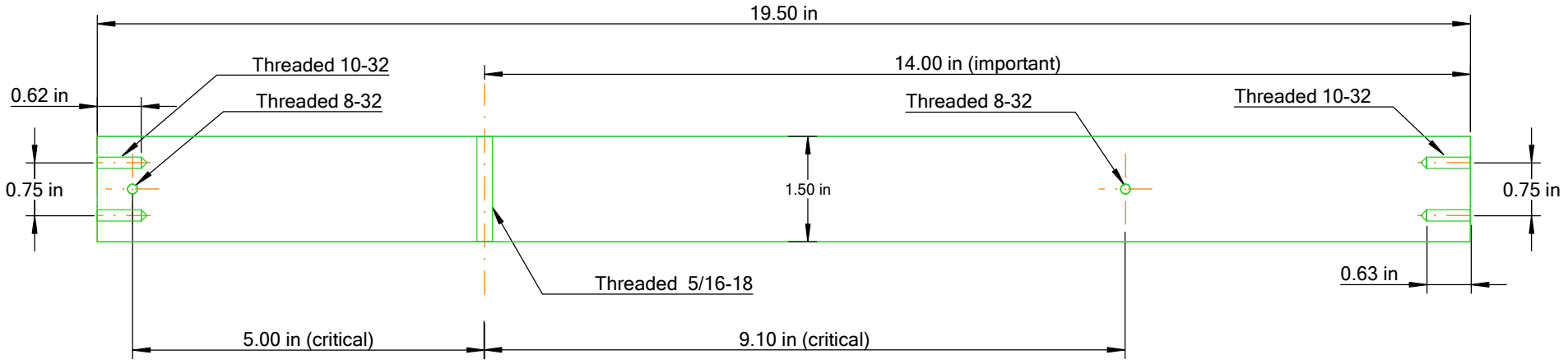
Front support
1/8 inch aluminum



Butt stop
1/8 inch aluminum



Arm
1/2 inch aluminum



All holes and cuts symmetrical about
the long axis of the piece

Digital Swingweight Scale Arm	DaveT 3/3/2015	Orthographic

1. The 14.00 inch dimension controls the 14-inch fulcrum that defines swingweight. Any error in that dimension is well-understood in what it does. Every sixth of an inch error is a swingweight point.
2. The hole for the bearing bolts (threaded 5/16-18) does not need to be threaded all the way through. It can be threaded for the first half inch at each end of the hole.
3. The 5.00 inch critical dimension controls the size of a swingweight point in the measurement. It may be between 4.96 and 5.00 inches, reflecting the discrepancy between the grams and ounces units. But it should not be outside these limits. (For comparison, 4-15/16 is 4.94.)
4. The 9.10 inch dimension controls calibration for purposes of place a D-0 swingweight in the right place. If it is not correctly placed but you can measure it precisely, you can fix it on calibration. The formula (see article) depends on the 9.10 inch and the 5.00 inch actual dimensions.

Digital Swingweight Scale Arm	DaveT 3/3/2015	Notes