

## 550 Spyder Front Anti-Sway Bar

### Description:

Drawings "SWAY BAR 1 & 2" are views of the assembled installation. SWAY BAR 1 is the top and front views. "SWAY BAR 2" shows the maximum limits of the bar assembly. The "AT REST" view is not true. The torque arm will be lower with weight on the car.

The front sway bar is fabricated from 5/8", 4130 steel bar.

Length: 35 1/2"

The ends have 36 splines.

It is important that the splines on each end align with each other. A misalignment of only one spline is an error of 10 degrees; the assembled bar will not lay flat.

Bar mounts are fabricated from 4 x 4 x 1/4" angle, 4" long and milled as indicated on drawing "SWAY BAR 3". The center is located half way between the upper and lower beam tubes and welded to the outside vertical supports on the axle beam. The short side of the mount is welded to the inside flange of the vertical supports.

Mounting bushings are 5/8" polyurethane, type "A". When installed they will extend 1 1/4" from the front of the mounts.

Torque Arms are fabricated from 7075-T6 aluminum billet. "SWAY BAR 5" is a full size drawing looking from the top of the arm. I cut them out and spray glue to the billet to make the rough blank for machining. All corners of the torque arms are radius 1/4".

Locating holes for the turnbuckles are 3/8" and spaced 5/8" on centers. Contrary to the drawing, I drilled 4 holes. I believe that will give sufficient adjustment; if not, drill more holes.

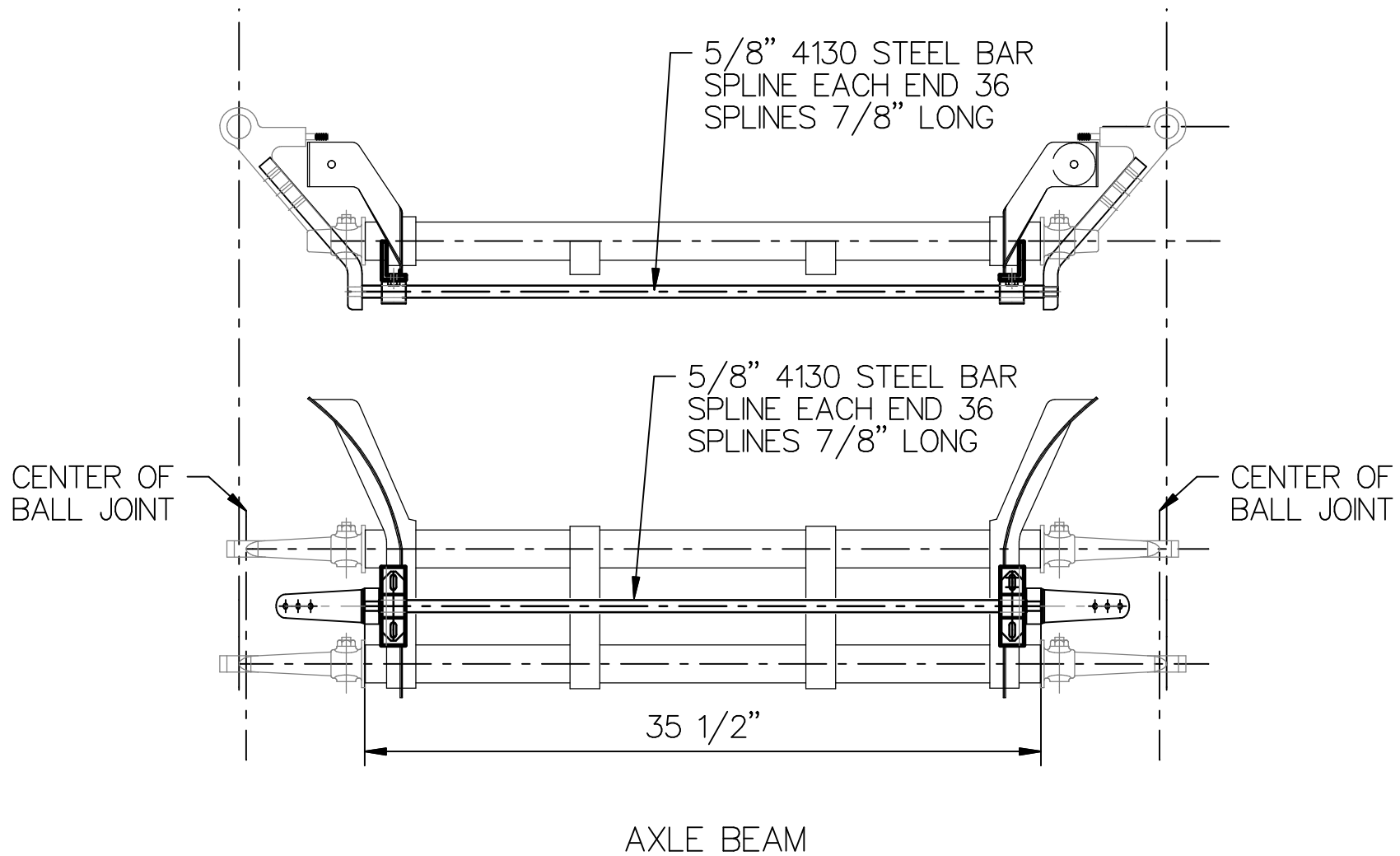
The splined hole for connecting the torque arm to the sway bar has 36 internal splines. I drilled a 9/16" hole and reamed to .575 i.d. This allows the splines to be cut .025" deep to match the bar. It is important that both torque arms are splined at exactly the same starting point.

The lower trailing arm of the front suspension will require link mounts fabricated and welded in place. Drawing "SWAY BAR 6" details the mounts required. They are milled from 1 1/4 x 1" steel bar.

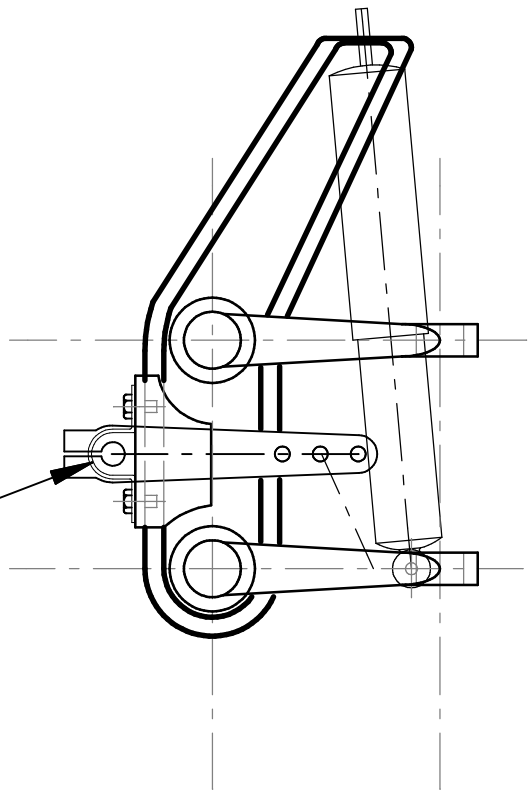
I bought 3/8" turn buckles...they were less expensive and more readily available than 10mm.

This project was made possible thru correspondence with DannyP and CarlosG. It was Carlos who presented the initial idea.

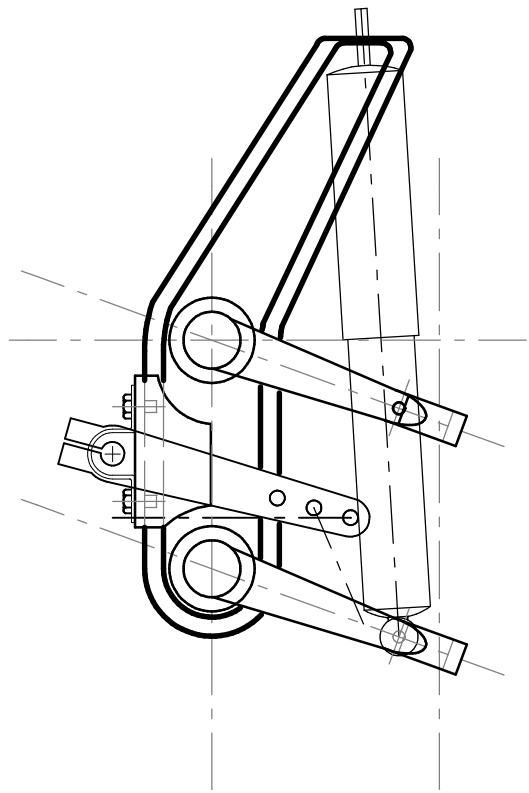
These drawings and work do not just jump off my computer. Considerable time is expended. If you find this information useful; a note will be appreciated.



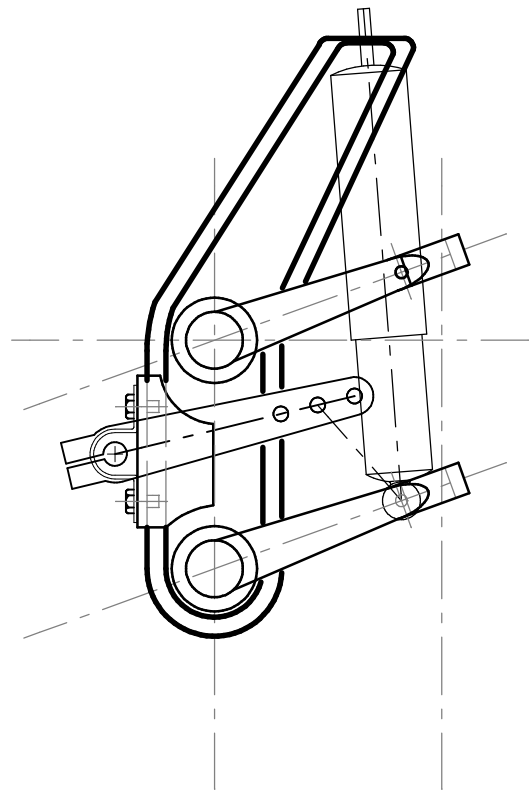
5/8" BUSHING  
TYPE "A"  
BRACKET



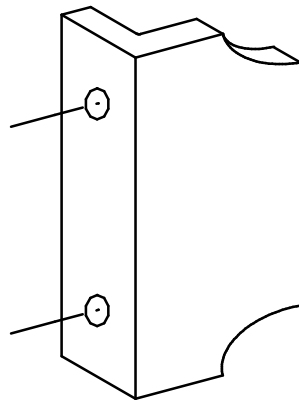
AT REST



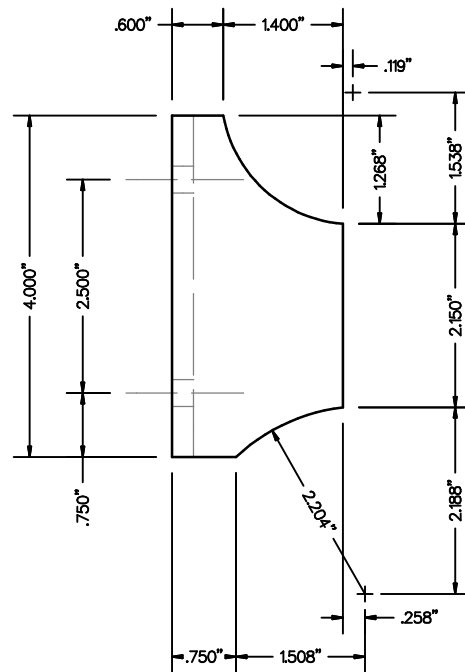
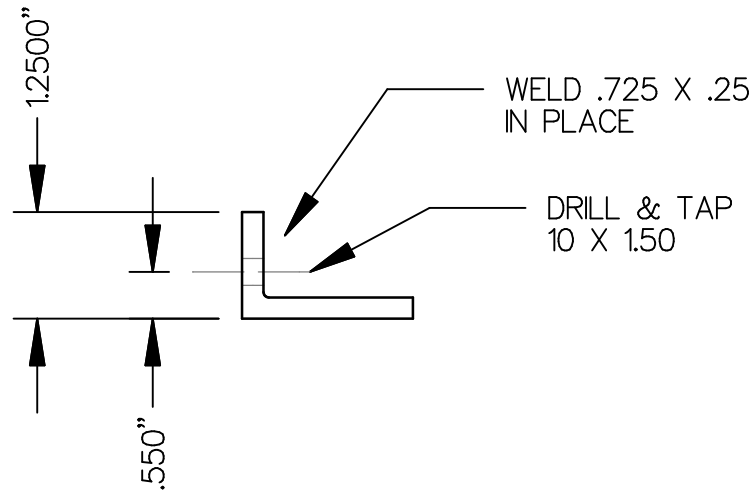
AT BOTTOM



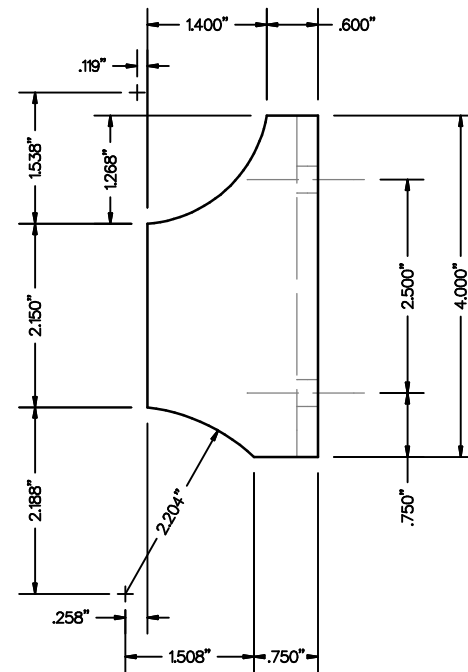
AT TOP



BAR MOUNT



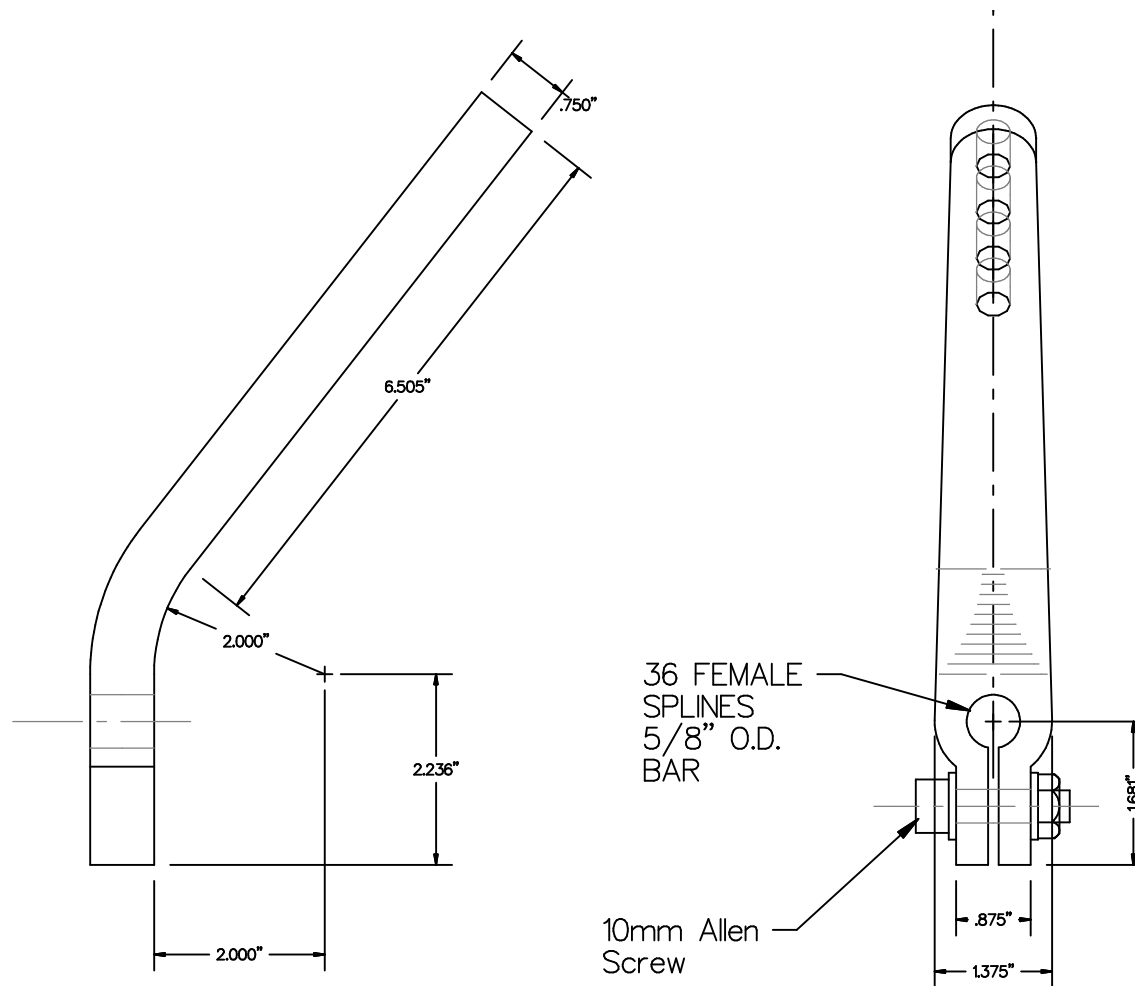
LEFT



RIGHT

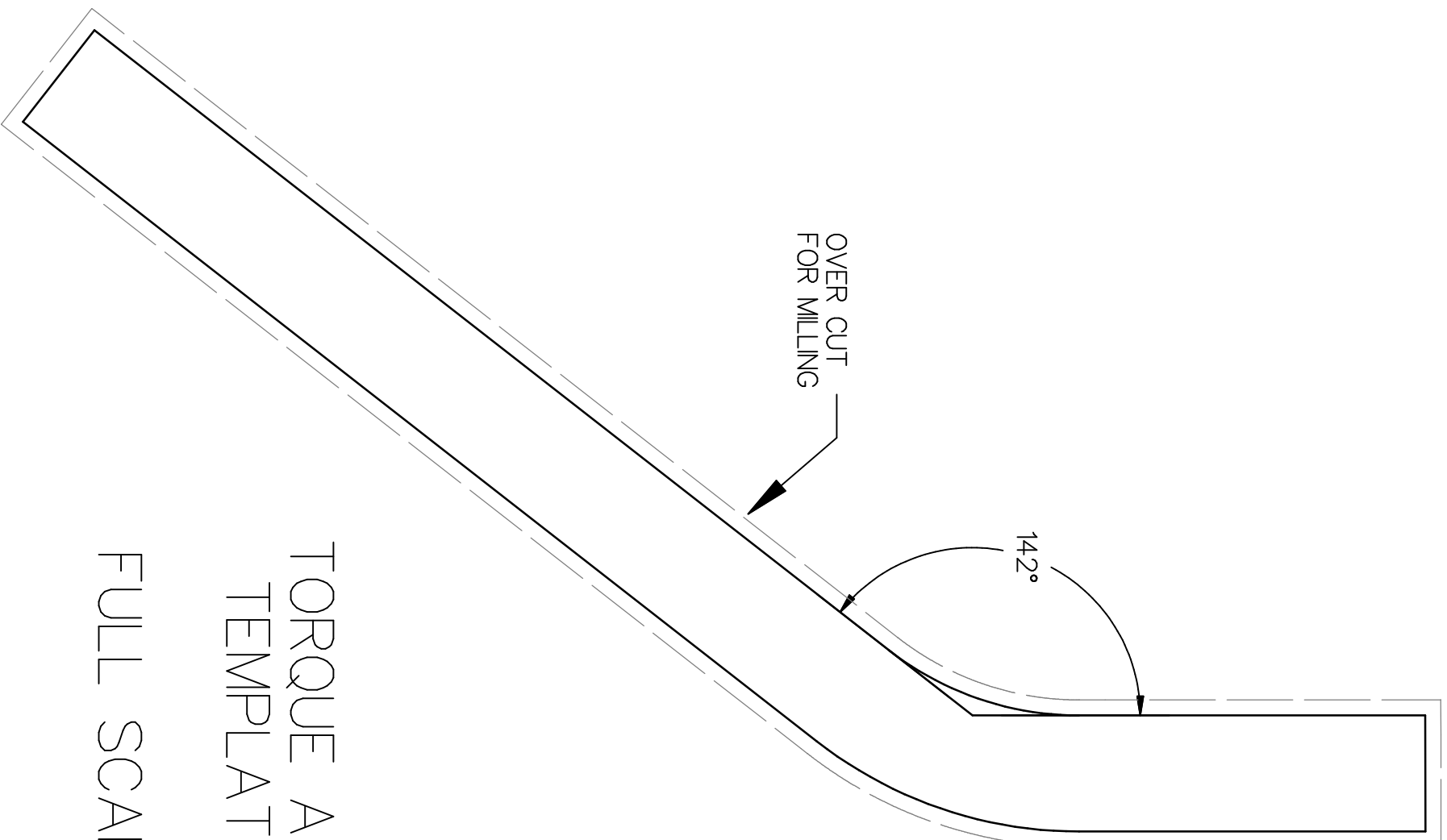
FAB FROM 4 X 4 X 1/4" STEEL ANGLE





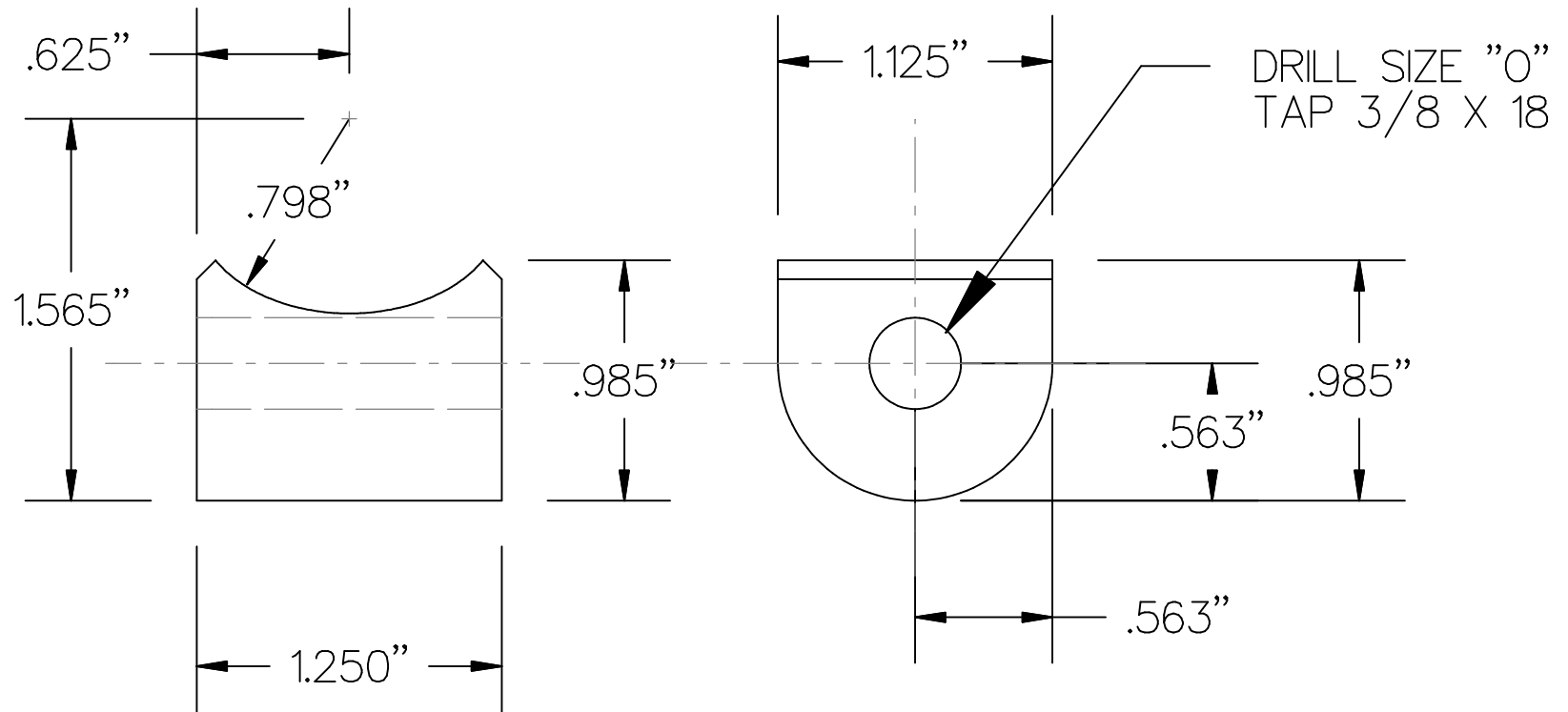
TORQUE ARM 2 REQUIRED

ROUGH CUT FROM 2 X 3 X 11"  
BILLET — 7075 T6 ALUMINUM  
1 BILLET WILL MAKE BOTH ARMS.



TORQUE ARM  
TEMPLATE

FULL SCALE



LOWER TRAILING ARM  
LINK MOUNT 2 – REQUIRED

LINKS ARE 3/8" HEIM JOINT  
TURN BUCKLES FROM  
RR COMPONENTS ON EBAY

