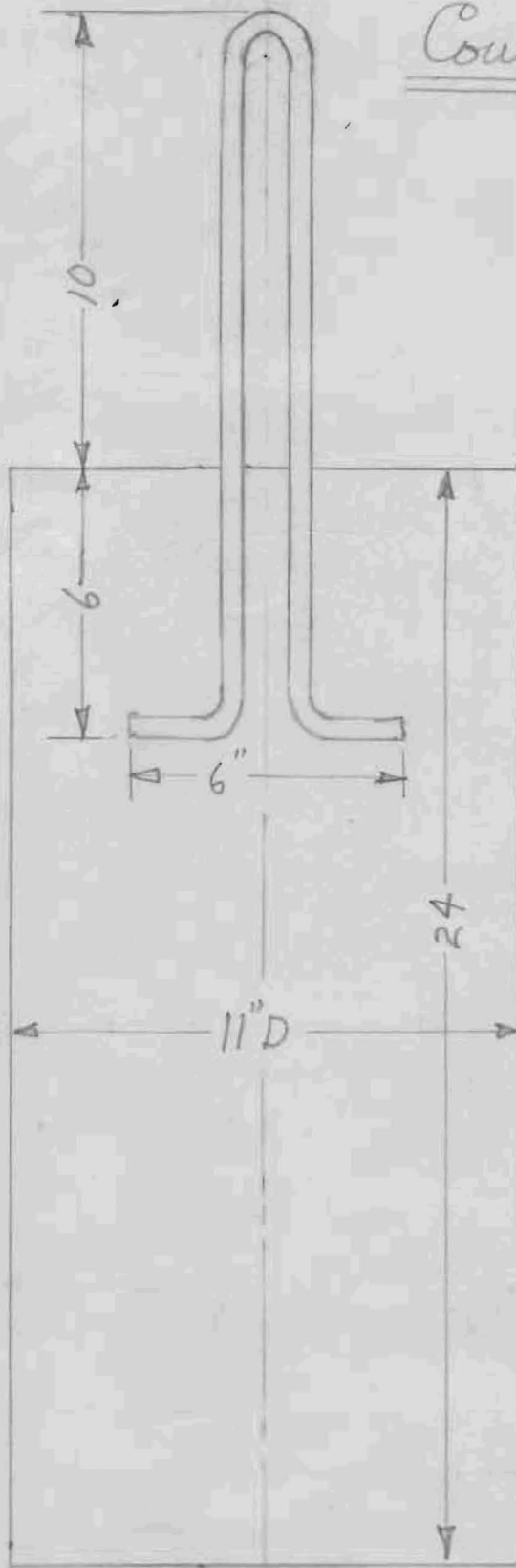


9 May 61

Counterweight



$\frac{1}{3}$  cubic feet at  
about 150#/cuft  
= 200 lbs approx.

120° motion and  
30" arm provides.  
 $1.73 \times 30 = 52$ " motion

Total = 120 of 200 lbs.

Counterweights on half of Antenna  $\frac{96}{2} = 48$   
 E/W lines #1, 2, 3 = 6 lines  $\times 4$   
 = 24  
 E/W lines #4, 5, 6 = 6 lines  $\times 4$   
 = 24  
 E/W lines #7 = 2 lines  $\times 2$   
 = 4  
 E/W lines #8 = 2 lines  $\times 4$   
 = 8  
 N/S lines = 4 lines  $\times 2$   
 = 8  
 Spars = 4

Ends of antennas 16  
 Spars 0  
 Total 16 of 100 lbs.

2nd June 61

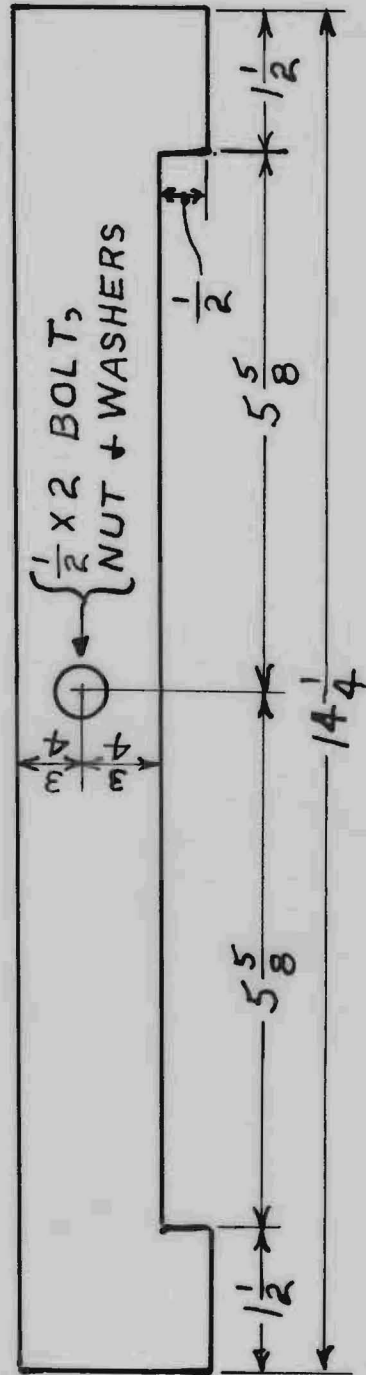
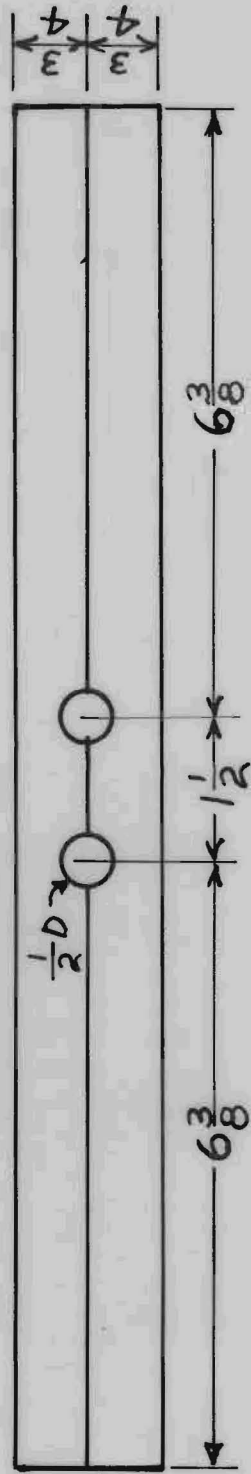
Measurement of fence posts at Dennistown. Made with crushed rock. Each has ten holes  $\frac{3}{8}$ " dia x 5" long three post and four rods  $\frac{1}{4}$ " dia x 6 ft along post. assume rods cancel holes. Post is  $5" \times 5" \times 71\frac{1}{8}" = 1781 \text{ cu in} = 1.031 \text{ cu ft}$ .

Four posts weighed respectively  $153.6^{\#}$ ,  $153.7^{\#}$ ,  $158.1^{\#}$ ,  $151.9^{\#}$  for an average of  $154.3^{\#}$ . The average density is  $154.3/1781 = 0.0866^{\#}/\text{cu in}$  or  $149.5^{\#}/\text{cu ft}$ ,

Counterweights required to be  $200^{\#}$ . Volume =  $\frac{200}{.0866} = 2310 \text{ cu in}$ ,

Assume counterweights 11" Dia = 95 sq in cross section.  
Length =  $\frac{2310}{95} = 24.3$ " long, say 24".

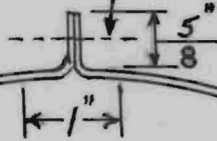
# CLAMP



# COUNTERWEIGHT FORM

16 GAUGE  
GALVANIZED

$\frac{1}{2}$ " x  $\frac{3}{16}$ " R.H. BOLTS  
1" FROM ENDS  
AND  $\frac{1}{3}$  POINTS



26 GA. LOOSE  
COVER STRIP

11" I.D.

OPEN ENDS

2 - 12" LONG, 2 BOLTS  
15 - 24" LONG, 4 BOLTS