

777 sqft of parabolic surface

30" " " overlap outside segments

5" " " " " inside " "

812 " " " metal total.

24 gauge galvanized 1.155 x 812 = 938 #

26 " " " .907 x 812 = 736 #

24 gauge plain 1.000 x 812 = 812 #

26 " " " .750 x 812 = 609 #

Let θ = angle of Focus support to vertex = $\tan^{-1} \frac{x}{y} = 38^\circ 20'$

r = length of support = $\sqrt{y^2 + x^2} = 21'$

radius from center to base of support = $\frac{20.177}{\sqrt{2}} = 14.25$

half width of 14" at top .58

offset at bottom 7" .59

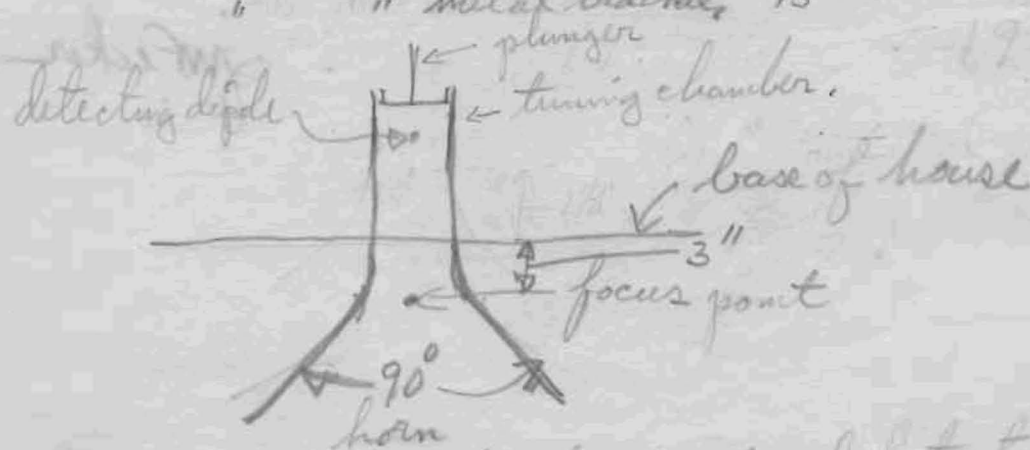
height of house $x = 13.08$

" " track 2'6" 20.25

" " metal bracket 15" 2.50

" " " 1.25

$y = 16.50$



allow 50# for weight of equipment and detecting box.