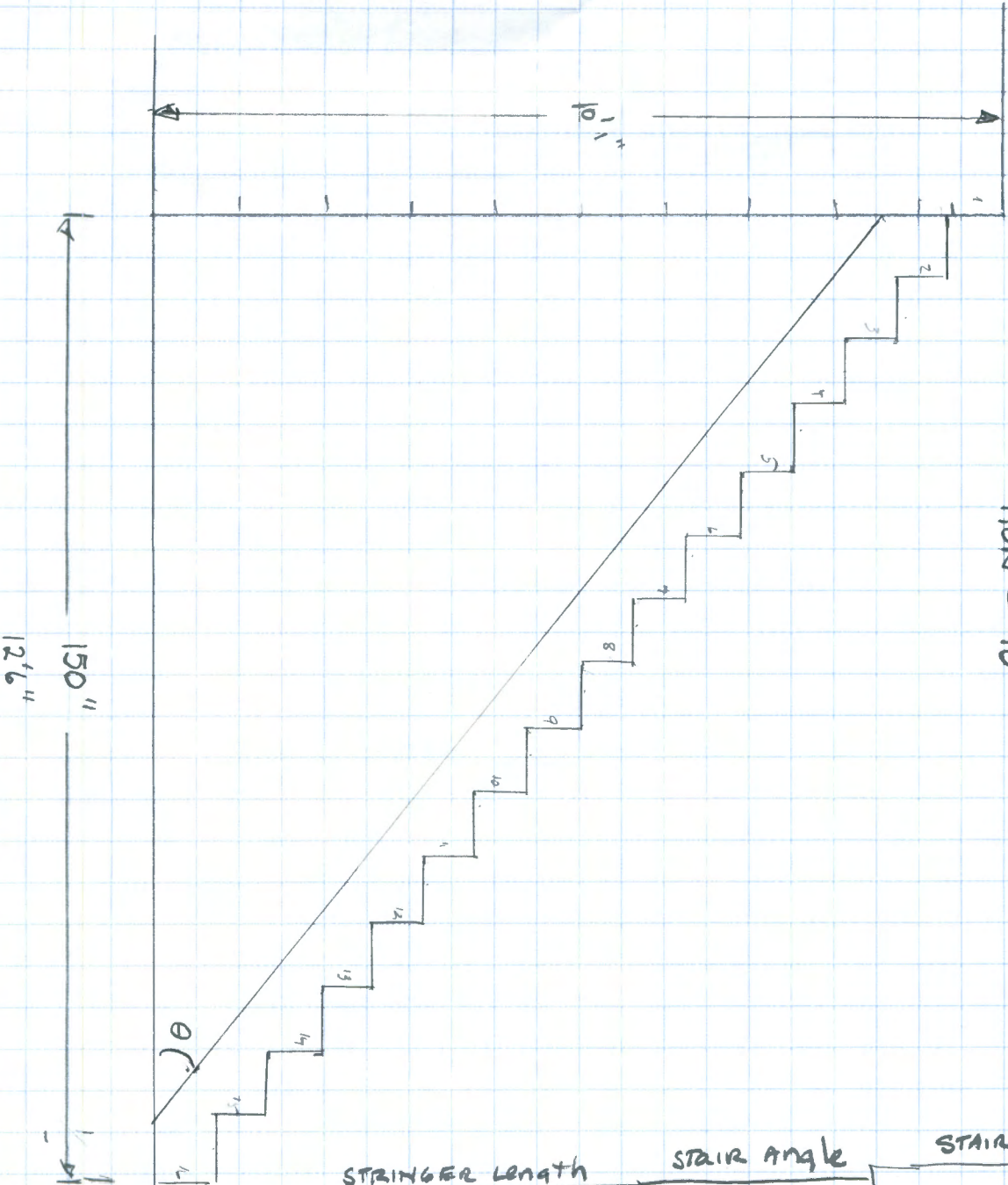


LULL RESIDENCE

1<sup>ST</sup> to 2<sup>ND</sup> Floor

RISE = 79% = 7.625  
 RUN = 10"



STAIR DESIGN FORMULAS

$$17 < r + t < 18$$

$$2r + t = 25$$

$$r * t = 75$$

$$2(7.625) + 10 = 25.25$$

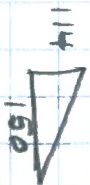
$$7.625 * 10 = 76.25$$

STAIR ANGLE

$$\tan \theta = \frac{113.375}{150} = .7558$$

$$\theta \approx 37^{\circ} 08'$$

STRINGER LENGTH



$$a^2 + b^2 = c^2$$

$$114^2 + 150^2 = c^2$$

$$12996 + 22500 = c^2$$

$$18474 = c$$

$$15.7' = c \quad \text{or } 16'$$

STRINGER LENGTH

$$\frac{7.625}{10} = \frac{181}{150} = .806$$