

$$\Sigma M_0^L = -(F_{E_y} * 29.0000) + F_{G_x} * 1.00000 - (F_{D_v} * 3.53704) + (F_{H_v} * 20.3352) = 0$$

$$M_0^L = -(188.454# * 29.0000) + 711.202# * 1.00000 - (1380.09# * 3.53704) + (F_{H_v} * 20.3352) = 0$$

$$473.829 = F_{H_v}$$

$$\Sigma F_x^L = +F_{E_x} - F_{D_v} \cos 61.3572^\circ + H_v \cos 29.6870^\circ - F_{G_x} = 0$$

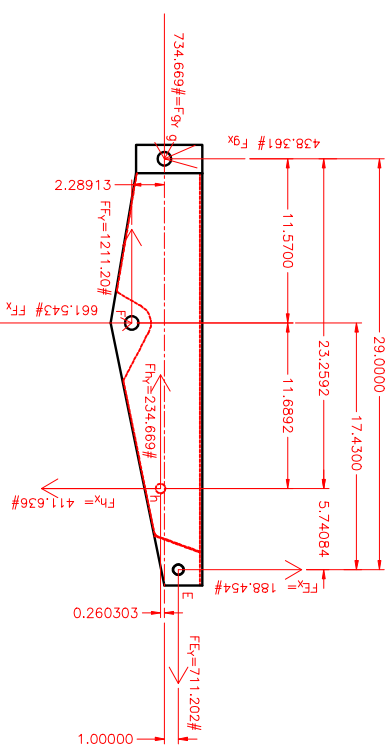
$$-188.454# - 1380.09# * \cos 61.3572^\circ + 473.829# * \cos 29.6870^\circ + F_{G_x} = 0$$

$$438.361# = F_{G_x}$$

$$\Sigma F_y^L = -F_{E_y} - F_{D_v} \sin 61.3572^\circ + H_v \sin 29.6870^\circ - F_{G_y} = 0$$

$$711.202# - 1380.09# * \sin 61.3572^\circ - 473.829# * \sin 29.6870^\circ + F_{G_y} = 0$$

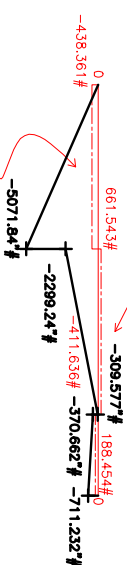
$$734.669# = F_{G_y}$$



SHEAR DIAGRAM CALCULATIONS

$$F_{G_x} + F_{F_x} + F_{H_x} + F_{E_x} = 0$$

$$-438.361# + 661.543# - 411.636# + 188.454# = 0$$



MOMENT CALCULATIONS

$$M_{H_1.5700} = -438.361# * 1.5700' = -5071.84' \#$$

$$M_{H_1.5700} = -438.361# * 1.5700' + (1211.20# * 2.28913') = -2299.24' \#$$

$$M_{H_1.5700} = -438.361# * 1.5700' + (1211.20# * 2.28913') + 661.543# * 11.6892' = 309.577' \#$$

$$M_{H_2.2592} = -438.361# * 2.2592' + (1211.20# * 2.28913') + 661.543# * 11.6892' = 309.577' \#$$

$$M_{H_2.2592} = -438.361# * 2.2592' + (1211.20# * 2.28913') + 661.543# * 11.6892' + (234.669# * 0.260303) = 370.662' \#$$

$$M_{H_2.2592} = -438.361# * 2.2592' + (1211.20# * 2.28913') + 661.543# * 11.6892' + (234.669# * 0.260303) - 411.636# * 5.74084' = -711.232' \#$$

$$M_{H_2.2592} = -438.361# * 2.2592' + (1211.20# * 2.28913') + 661.543# * 11.6892' + (234.669# * 0.260303) - 411.636# * 5.74084' + 711.202# * 1.00000 = -0.02962' \#$$