$\Sigma M_{\overrightarrow{E}}=(23"*CA) + (49.19"*-FB_Y) + (30.75"*FB_X) + (14.50"*-FD)=0$

$\quad (23"*3812.2\#) + (49.19"*-2462.6\#) + (30.75"*3249.1\#) + (14.50"*-FD)=0$

$\quad 68226"\# + (14.50"*-FD)= 0$

$\quad\quad\quad\quad -(14.50"*-FD) \quad -(14.50"*-FD)$

$\quad \dfrac{66455.1"\#}{(14.50")} = \dfrac{(14.50)"*(-FD)}{(14.50")}$

$\quad 4583.1\# = -FD$

$\Sigma F_{\overrightarrow{X}}=-FB_X + (CA*COS\ 51°) + (FD*COS\ 3°) + -FE_X=0$

$\quad -3249.1\# + (3812.2\#*COS\ 51°) + (4583.1\#*COS\ 3°) + -FE_X=0$

$\quad 3726.8\# - FE_X=0$

$\quad\quad\quad -FE_X \quad -FE_X$

$\quad 3726.8\# = -FE_X$

$\Sigma F_{\overrightarrow{Y}}=-FB_Y + (CA*SIN\ 51°) + (FD*SIN\ 3°) + FE_Y=0$

$\quad 2426.6\# + (-3812.2\#*SIN\ 51°) + (4583.1\#*SIN\ 3°) + -FE_X=0$

$\quad 294\# + -FE_Y=0$

$\quad\quad\quad +FE_Y \quad +FE_Y$

$\quad 296.2 = FE_Y$