


$$FE_Y = 625.102 \#$$

3.19796

FDx=1335.00#

$$FD_Y = 349.878 \#$$
$$FC_Y = 1018.89 \text{ \#}$$

#69

2.22499

3.94184

$$F_{B_x} = 2504.66 \text{ N}$$
$$F_{B_Y} = 1294.11 \#$$

-19.2583



SHEAR DIAGRAM CALCULATIONS

$FE_y + FD_y + FC_y + FB_y = 0$

$-625.102\# + 349.878\# - 1018.89\# + 1294.11\# = 0$

275.224#

-12624.9"#

-1294.11#

- 23999.7" #

MOMENT CALCULATIONS

$$M_{32.1404} = -625.102 \# * 32.1404 = -21385.1 \#$$
$$M_{32.1404} + = -625.102^\circ * 32.1404'' - 1335.00^\circ * 3.19796'' = -24360.3''$$
$$M_{37.9665} = -625.102^\circ * 37.9664'' + 349.878^\circ * 5.82610'' + 1335.00^\circ * (3.94184 - 3.19796) = -20701.4''$$
$$M_{37.9665} = -625.102^\circ * 37.9664'' + 349.878^\circ * 5.82610'' + 1335.00^\circ * (3.94184'' - 3.19796'')$$
$$-388.035^{\circ} + 3.94183'' + 1557.69^{\circ} * (3.94183'' + 2.22499'') = -12624.9''$$
$$M_{57.8547} = -625.102 \#^{*} 57.8547'' + 349.878 \#^{*} 25.7143'' - 1018.89 \#^{*} 19.8882 - 388.035 \#^{*} 19.2583''$$
$$-1335.00^{\circ} * (19.2583^{\circ} - 3.19796^{\circ}) + 1557.69^{\circ} * (19.2583^{\circ} + 2.22499^{\circ}) = 0.143462 = \sim 0^{\circ} - 24360.3^{\circ} \#$$

01.4"#