

Job #	888	Project	Biaxial Design Example	2/28/2011	Design	FixedEarth
INPUTS		Biaxial Moment Analysis				
qall-net	3.30	ksf				
B (// to y)	15.00	ft				
L (// to x)	9.00	ft				
P(+ve dwn)	83.00	kips	(service load+pedestal+footing)			
Mx	76.00	kip-ft				
My	-76.00	kip-ft				
RESULTS						
Ftng.Area	135.00	ft^2				
q1	0.76	ksf	Bearing Pressure Check		Soil Tension Check	
q2	0.01	ksf	OK		OK	
q3	0.46	ksf	OK		OK	
q4	1.22	ksf	OK		OK	
ex	0.92	ft	Eccentricity Check			
ey	0.92	ft	OK Ecc. is less than L/6			
			OK Ecc. is less than B/6			
			$p = \frac{P}{A} \pm \frac{M_x}{Z_x} \pm \frac{M_y}{Z_y}$ $= \frac{P}{LB} \pm \frac{M_x}{\left(\frac{BL^2}{6}\right)} \pm \frac{M_y}{\left(\frac{LB^2}{6}\right)}$			
B'	13.17	ft				
L'	7.17	ft				
Eff.Area	94.40	ft^2				