

	MAP-1, 42'	MAP-1, 42'	MAP-2, 34'/31'	MAP-2, 34'/31'
Structure ID	B-102	B-102	B-103	B-103
Check Bearing Capacity:				
X - Moment about toe (ft-lbs)	39717	18724	74710	71589
Y - Moment about toe (ft-lbs)	30752	69927	19127	39536
Area (sf)	90.25	90.25	104	104
X - Section Modulus (cf)	142.9	142.9	138.7	138.7
Y - Section Modulus (cf)	142.9	142.9	225.3	225.3
X - Eccentricity (ft)	0.615	1.366	0.329	0.660
e<=1/6 B	OK	OK	OK	OK
Y - Eccentricity (ft)	0.794	0.366	1.286	1.196
e<=1/6 B	OK	OK	OK	OK
Scenario 1 - No Tension:				
Qa (psf)	617	209	1013	917
Qb (psf)	1048	1187	1182	1267
Qc (psf)	492	925	105	235
Qd (psf)	61	-53	-65	-116
Scenario 2 - Corner Tension:				
Zero Pressure Angle (radians)	0.6589	1.3092	0.0967	0.2062
H1 (ft) - SELECT VALUE	14.171	11.130	8.729	9.584
X- Leg (ft)	23.147	11.522	90.455	46.817
Y - Leg (ft)	17.922	43.031	8.770	9.791
H2 (ft)	8.355	1.953	7.474	6.923
H3 (ft)	6.659	8.673	0.766	1.753
L1 (ft)	29.275	44.547	90.880	47.830
L2 (ft)	17.260	7.818	77.819	34.549
L3 (ft)	13.757	34.712	7.979	8.751
Load Offset (ft)	8.511	6.728	5.432	5.644
Moment of Inertia (ft^4)	5764.98	3226.35	2328.78	2549.69
Qa (psf)	617	208	1013	917
Qb (psf)	1047	1188	1183	1270
Qc (psf)	492	926	104	232
Psoil (lbs)	50035	51180	58105	59872
Papplied (lbs)	50037	51178	58104	59872
% Difference	0.00	0.00	0.00	0.00
	OK	OK	OK	OK

Check Settlement:

Subgrade Material	Gravel/Rock	Gravel/Rock	Gravel/Rock	Gravel/Rock
	OK	OK	OK	OK

Concrete Structural Design:

X - Q at face of pedestal (psf)	900	853	1118	1134
Y - Q at face of pedestal (psf)	857	1098	846	946
Mx at face of pedestal (pos.)	55697	61092	32386	34455
My at face of pedestal (pos.)	54980	65195	195786	213741
Mx at face of pedestal (neg.)	26340	26340	16125	16125
My at face of pedestal (neg.)	26340	26340	104813	104813