


John Shively PE

Eccentricity verificationMax. eccentricity of normal force $e = 0.110$ Maximum allowable eccentricity $e_{alw} = 0.333$ **Eccentricity of the normal force is SATISFACTORY****Verification of bearing capacity**Max. stress at footing bottom $\sigma = 1640.3$ psfBearing capacity of foundation soil $R_d = 6000.0$ psfSafety factor = $3.66 > 2.00$ **Bearing capacity of foundation soil is SATISFACTORY****Overall verification - bearing capacity of found. soil is SATISFACTORY****Input data (Stage of construction 2)****Geological profile and assigned soils**

No.	Thickness of layer t [ft]	Depth z [ft]	Assigned soil	Pattern
1		- 0.00 .. ∞	Lean Clay	

Terrain profile

Terrain behind the structure is flat.

Water influence

Ground water table is located below the structure.

Input surface surcharges

No.	Surcharge		Action	Mag.1 [lb/ft ²]	Mag.2 [lb/ft ²]	Ord.x x [ft]	Length l [ft]	Depth z [ft]
	new	change						
1	No	No	permanent	125.00		6.00	25.00	on terrain

No.	Name
1	Roadway

Resistance on front face of the structure

Resistance on front face of the structure: at rest

Soil on front face of the structure - Lean Clay

Soil thickness in front of structure $h = 3.00$ ft**Terrain shape in front of structure**

No.	Coordinate x[ft]	Depth z[ft]
1	0.00	0.00
2	0.00	-3.00
3	-0.10	-3.00
4	-6.10	-1.00
5	-7.10	-1.00

Origin [0,0] is located in bottom left edge of construction.

Positive coordinate +z has downward direction.

EarthquakeFactor of horizontal acceleration $K_h = 0.1100$ Factor of vertical acceleration $K_v = 0.0000$