Bearing capacity of foundation soil (Stage of construction 2)

Design load acting at the center of footing bottom

| No. | Moment [lbfft/ft] | Norm. force [lbf/ft] | Shear Force [lbf/ft] | Eccentricity | Stress [psf] |
|-----|----------------------|-------------------------|-------------------------|--------------|-----------------|
| 1 | 5779.7 | 6568.48 | 2437.40 | 0.147 | 1549.1 |

Service load acting at the center of footing bottom

| No | Moment | Norm. force | Shear Force |
|-----|------------|-------------|-------------|
| NO. | [lbfft/ft] | [lbf/ft] | [lbf/ft] |
| 1 | 5779.7 | 6568.48 | 2437.40 |

Verification of foundation soil

Stress in the footing bottom : rectangle

Eccentricity verification

Max. eccentricity of normal force e = 0.147Maximum allowable eccentricity $e_{alw} = 0.333$

Eccentricity of the normal force is SATISFACTORY

Safety factor = 3.87 > 1.00 Bearing capacity of foundation soil is SATISFACTORY

Overall verification - bearing capacity of found. soil is SATISFACTORY

Slope stability analysis

Input data

Project

Settings

USA - Safety factor (2)

Stability analysis

Verification methodology : Safety factors (ASD) Earthquake analysis : Standard

| Safety factors | | | | | |
|--------------------------|-------------------|----------|--|--|--|
| Seismic design situation | | | | | |
| Safety factor : | SF _s = | 1.00 [–] | | | |