Name	F_{hor} [lbf/ft]	App.Pt. z [ft]	F_{vert} [lbf/ft]	App.Pt. x [ft]	Design coefficient
Active pressure	692.2	-2.01	530.3	3.05	1.000

Verification of block No. 1

Check for overturning stability
Resisting moment M_{res} = 4786.1 lbfft/ft
Overturning moment M_{ovr} = 1387.2 lbfft/ft

Safety factor = 3.45 > 1.50
Joint for overturning stability is SATISFACTORY

Check for slip
Resisting horizontal force H_{res} = 1456.59 lbf/ft
Active horizontal force H_{act} = 684.43 lbf/ft

Safety factor = 2.13 > 1.50
Joint for verification is SATISFACTORY

Bearing capacity of foundation soil (Stage of construction 1)

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	752.5	3396.37	767.97	0.052	892.2

Service load acting at the center of footing bottom

No.	Moment [lbfft/ft]	Norm. force [lbf/ft]	Shear Force [lbf/ft]
1	752.5	3396.37	767.97

Verification of foundation soil

Stress in the footing bottom : rectangle

Eccentricity verification
Max. eccentricity of normal force e   = 0.052
Maximum allowable eccentricity e_{alw} = 0.333

Eccentricity of the normal force is SATISFACTORY

Verification of bearing capacity
Max. stress at footing bottom σ = 892.2 psf
Bearing capacity of foundation soil R_d = 6000.0 psf

Safety factor = 6.73 > 2.00
Bearing capacity of foundation soil is SATISFACTORY

Overall verification - bearing capacity of found. soil is SATISFACTORY