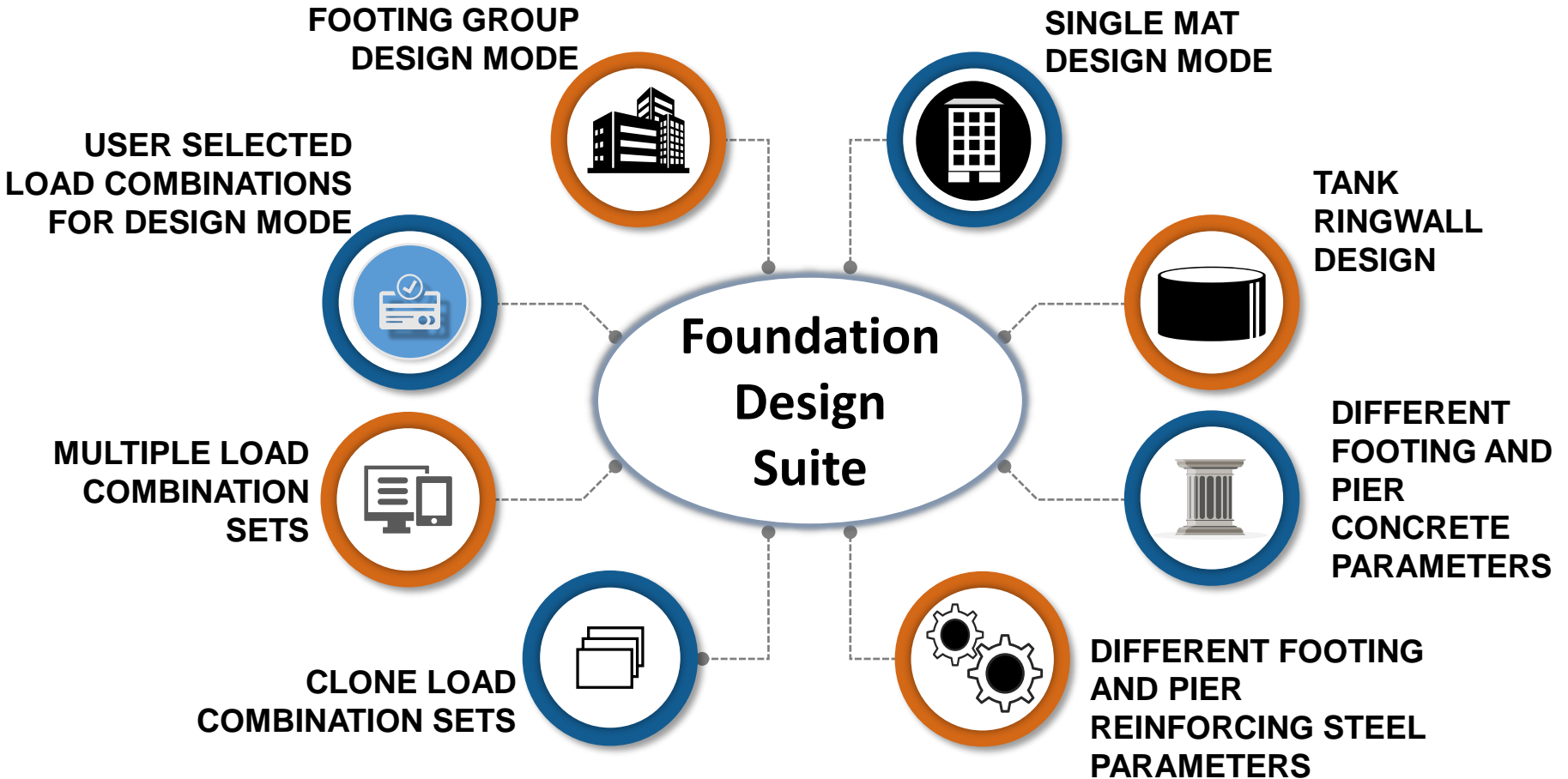




New Release – 2021R1





Design Mode In Mat3D

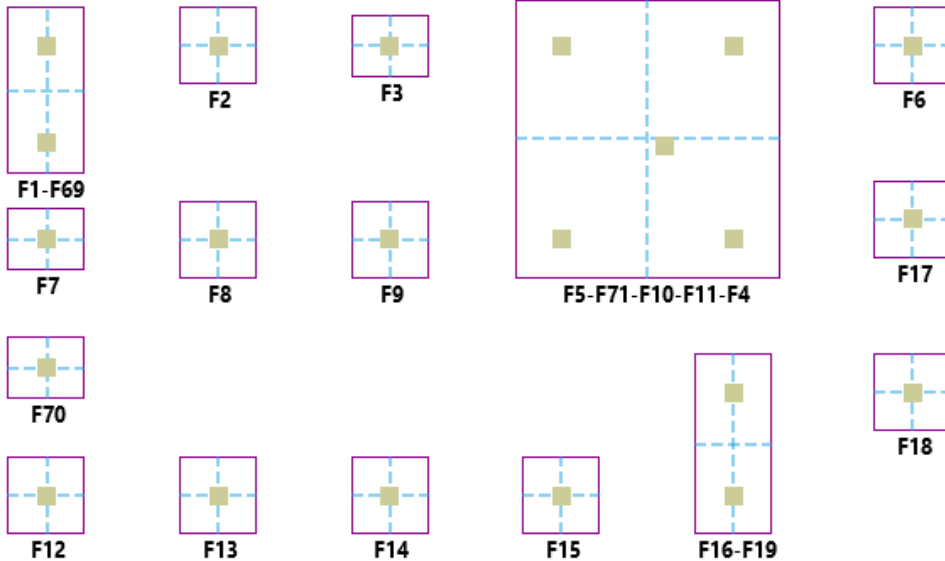


Example of
a Footing
Group

Initial State



Design Mode In Mat3D



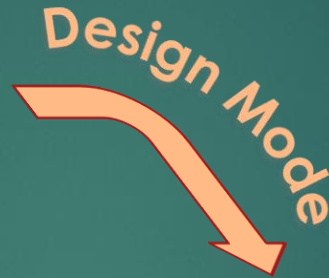
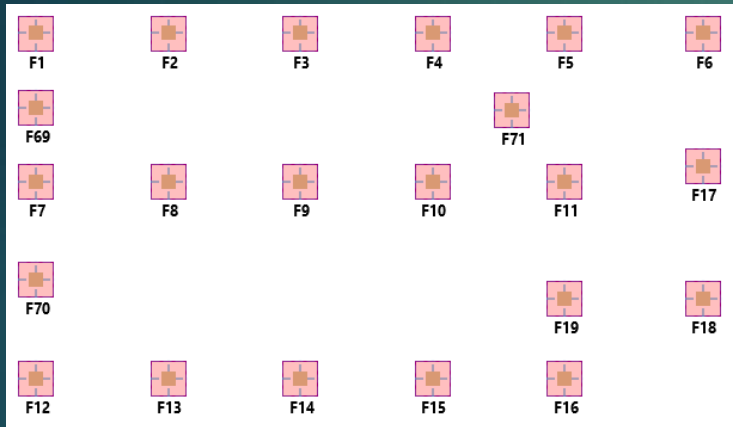
The same
Footing
Group

Final State

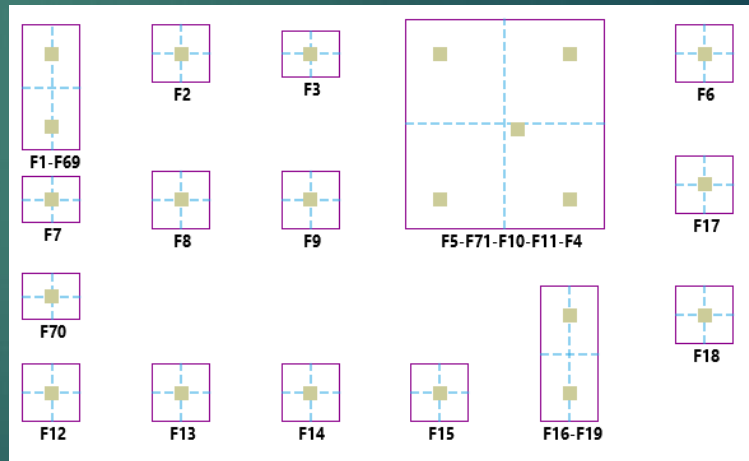


Design Mode In Mat3D

Initial State



Final State





Load Combination Sets

Load Combination Set – New Release

SUMMARY BEARING CONCRETE_DESIGN STABILITY SLIDING UPLIFT

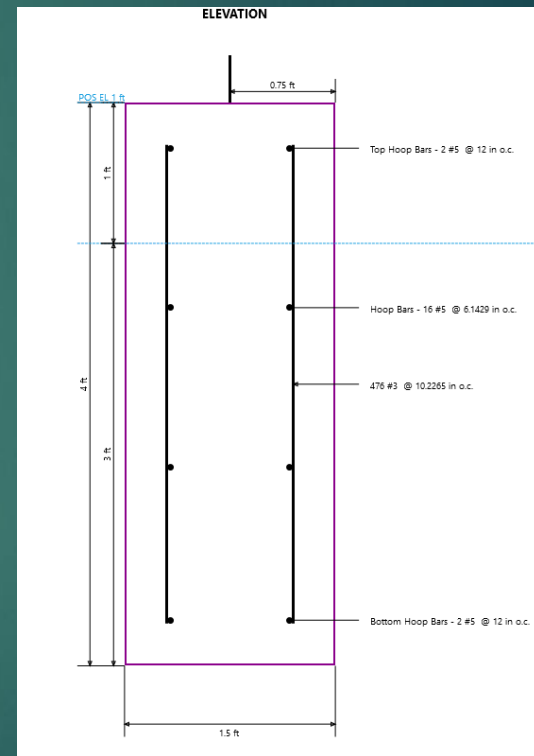
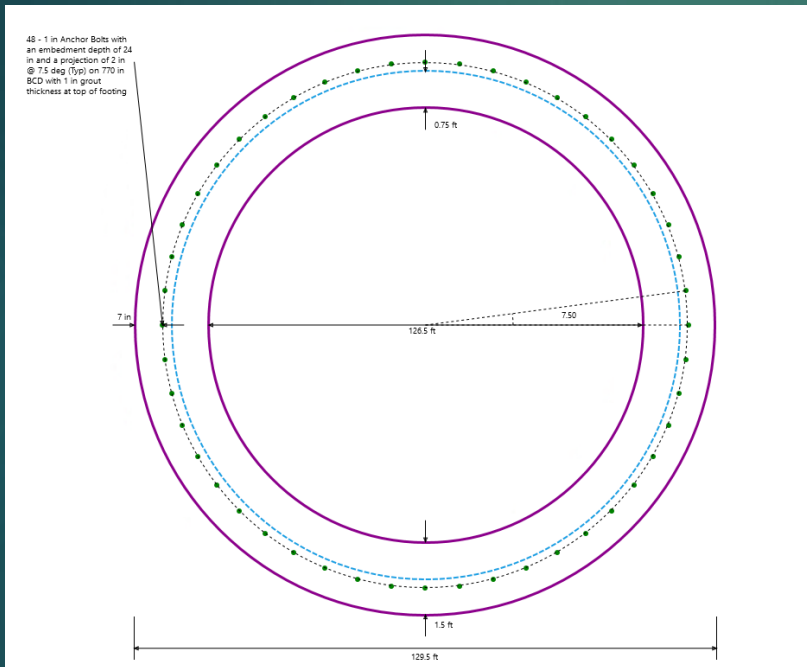
Name

Use For Bearing Capacity Stability Sliding Uplift Concrete Design

No	Name	Type	Self Weight	Dead	Live	Wind	Earthquake
1	Dead	Dead	1	1	0	0	0
2	Dead + Live	Dead	1	1	1	0	0
3	Dead + 0.75 Live	Dead	1	1	0.75	0	0
4	Dead + 0.75 Live + 0.45 Wind	Wind	1	1	0.75	0.45	0
5	Dead + 0.6 Wind	Wind	1	1	0	0.6	0
6	0.6 Dead + 0.6 Wind	Wind	0.6	0.6	0	0.6	0
7	Dead + 0.75 Live + 0.525 Earthquake	Earthquake	1	1	0.75	0	0.525
8	Dead + 0.7 Earthquake	Earthquake	1	1	0	0	0.7
9	0.6 Dead + 0.7 Earthquake	Earthquake	0.6	0.6	0	0	0.7



Tank Ringwall Foundation Design





Different Footing and Pier Concrete & Reinforcing Steel Parameters

Concrete Parameters

Compressive Strength (N/sq mm) 30 ▼

Unit Weight of Concrete (kN/cu m) 24 ▼

Use separate concrete parameters for piers and footings

Pier Concrete Parameters

Compressive Strength (N/sq mm) 35 ▼

Unit Weight of Concrete (kN/cu m) 24 ▼

Reinforcing Steel Parameters

Yield Strength (N/sq mm) 500 ▼

Unit Weight (kN/cu m) 78 ▼

Modulus of Elasticity (N/sq mm) 200000 ▼

Pier Longitudinal Reinforcing Steel Parameters

Yield Strength (N/sq mm) 450 ▼

Unit Weight (kN/cu m) 77 ▼

Modulus Of Elasticity (N/sq mm) 200000 ▼

Pier Tie Reinforcing Steel Parameters

Yield Strength (N/sq mm) 450 ▼

Unit Weight (kN/cu m) 77 ▼

Modulus Of Elasticity (N/sq mm) 200000 ▼