INPUTS:

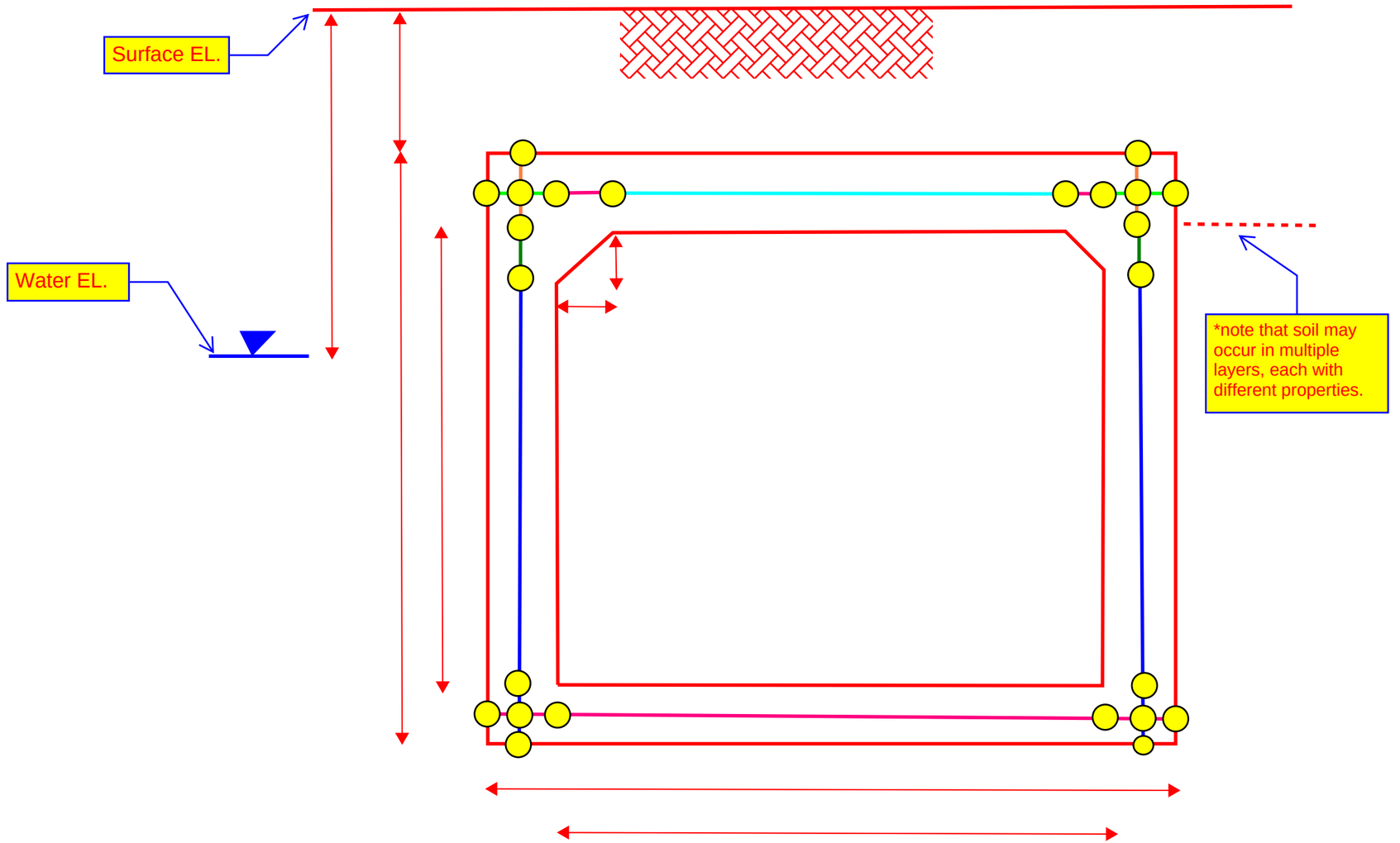
Frame Elements:

-Thickness
-Cracking Modifiers (A,A2,I)
-Material

Material
-Ec
-F'c

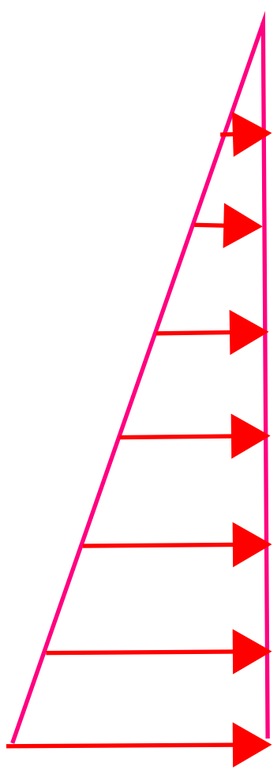
Soil
-Density
-SLS Bearing Strength
-ULS Bearing Strength
-Kh
-Kv
-Ko

Seismic
-Free Field Deformation (value for top + bottom)
-Soil Shear Modulus



Program Functionality:
Take Input => Generate Local Stiffness Matrices => Combine into Global Stiffness Matrix => Matrix Algebra to calculate displacements => Use displacements to calculate point & triangle seismic load patterns

Outputs (Phase 1)



w = ?

P = ?