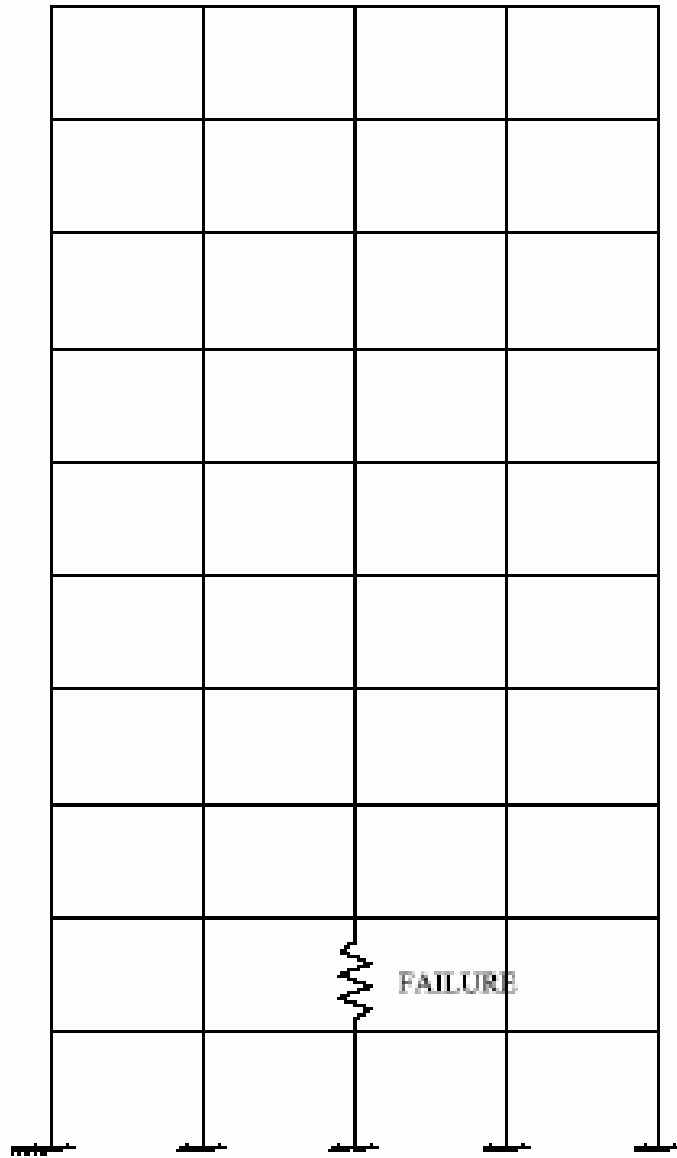


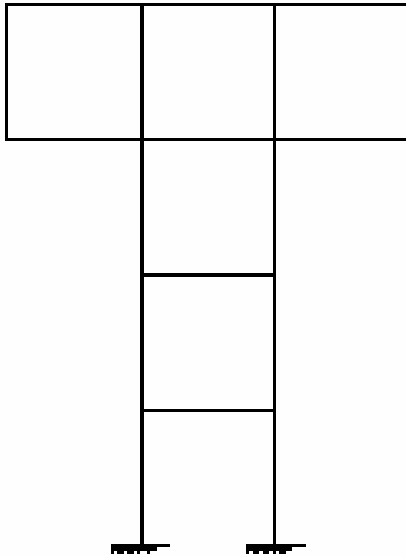
$$F(t) = \frac{1}{1-b^2} (\sin \Omega t - b \sin \omega t)$$

Where: Ω – period of the forcing function

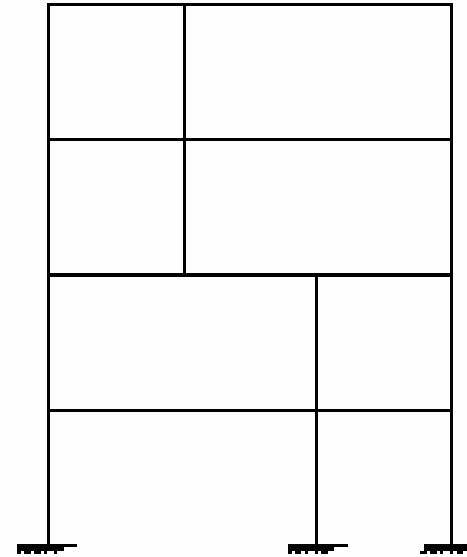
ω – period of the structure

$$b = \frac{\Omega}{\omega}$$

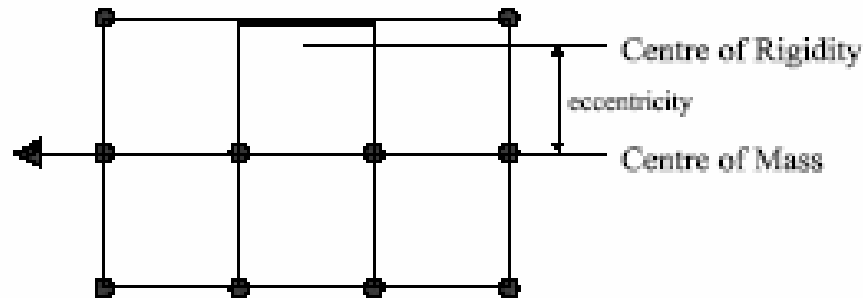




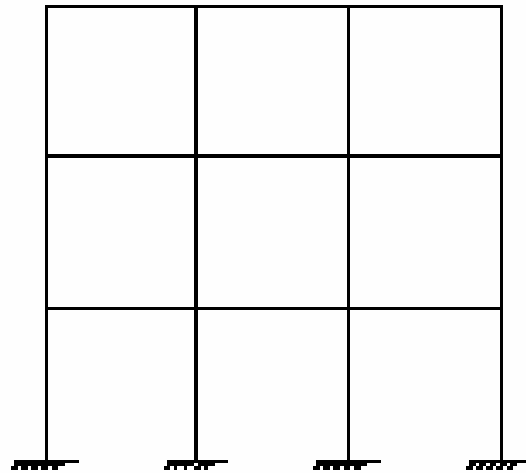
UNEVEN MASS DISTRIBUTION



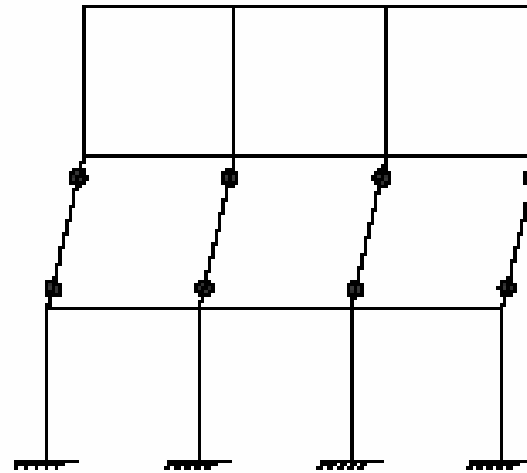
STRUCTURAL DISCONTINUITY



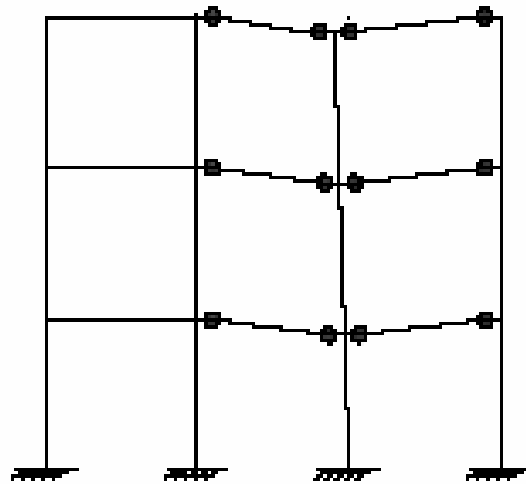
UNEVEN STIFFNESS DISTRIBUTION



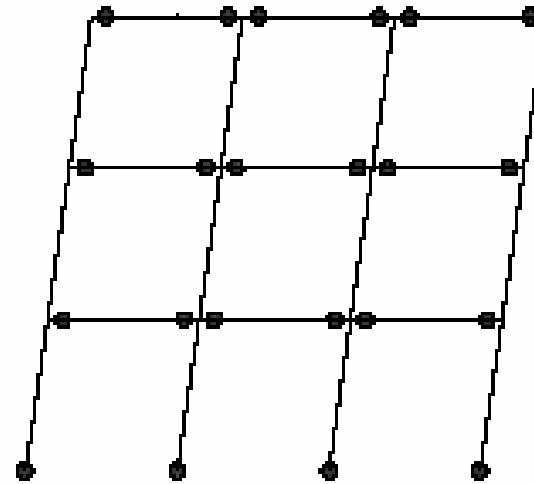
FRAME



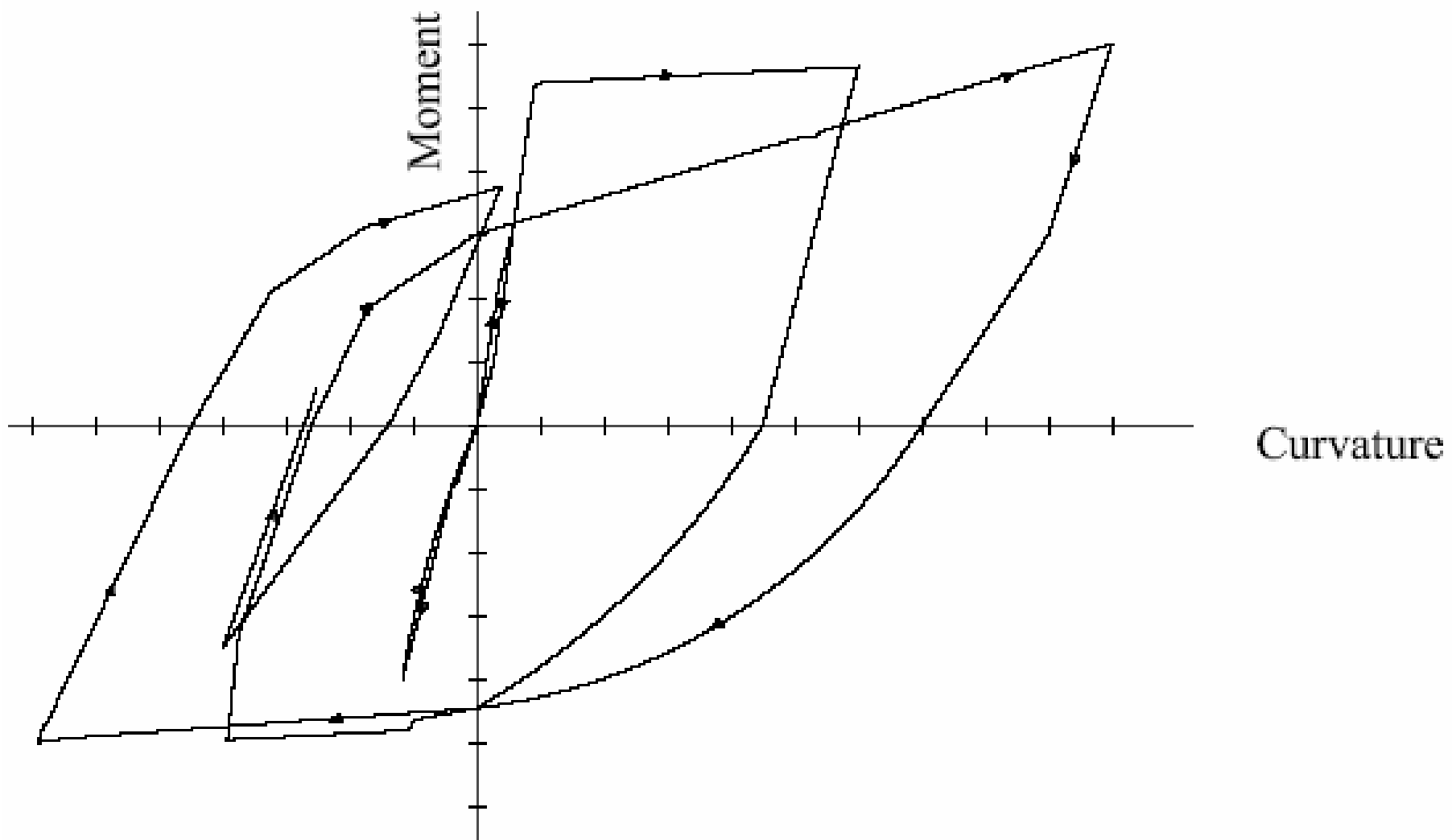
STOREY MECHANISM

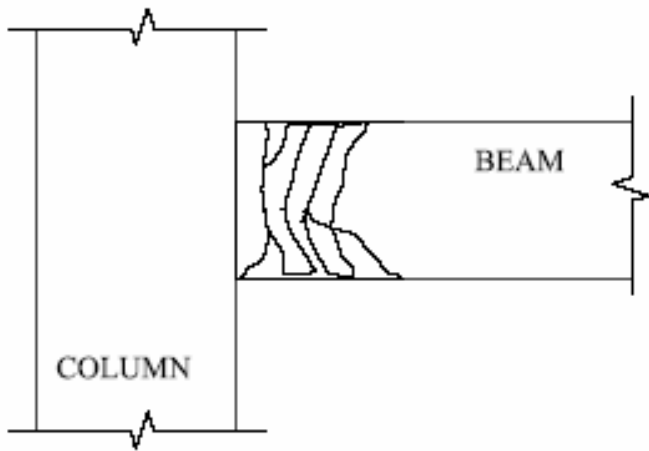


BAY MECHANISM

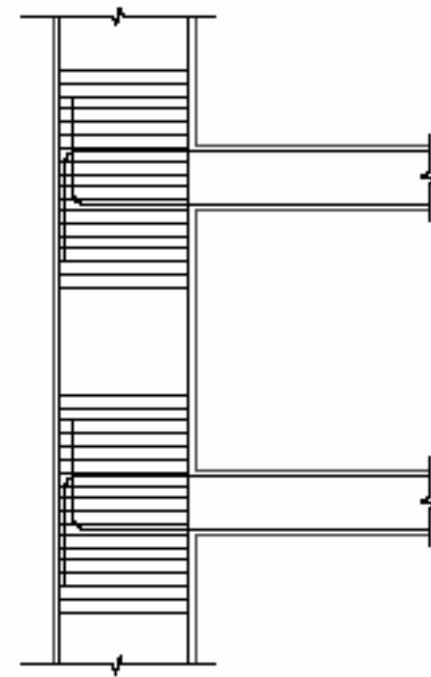


SWAY MECHANISM

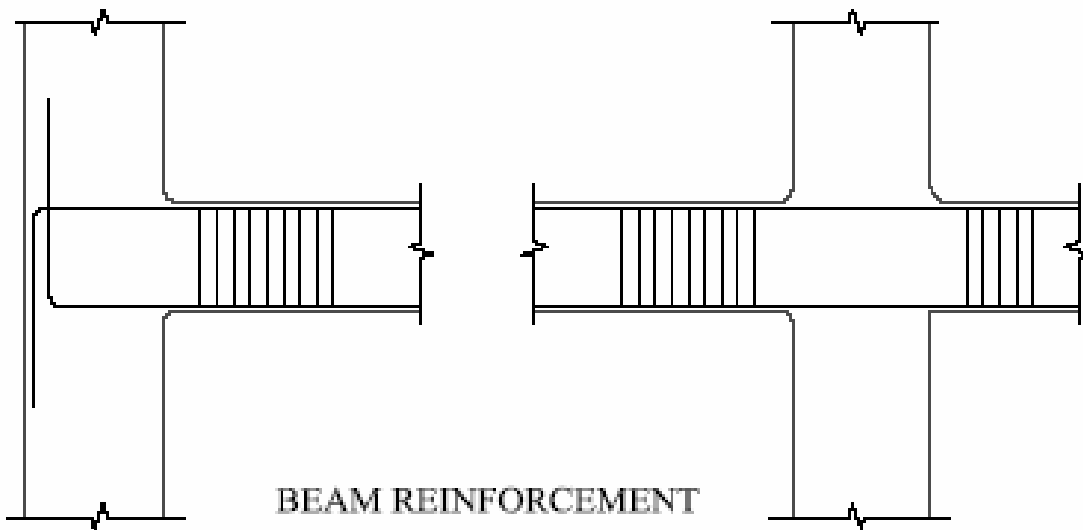




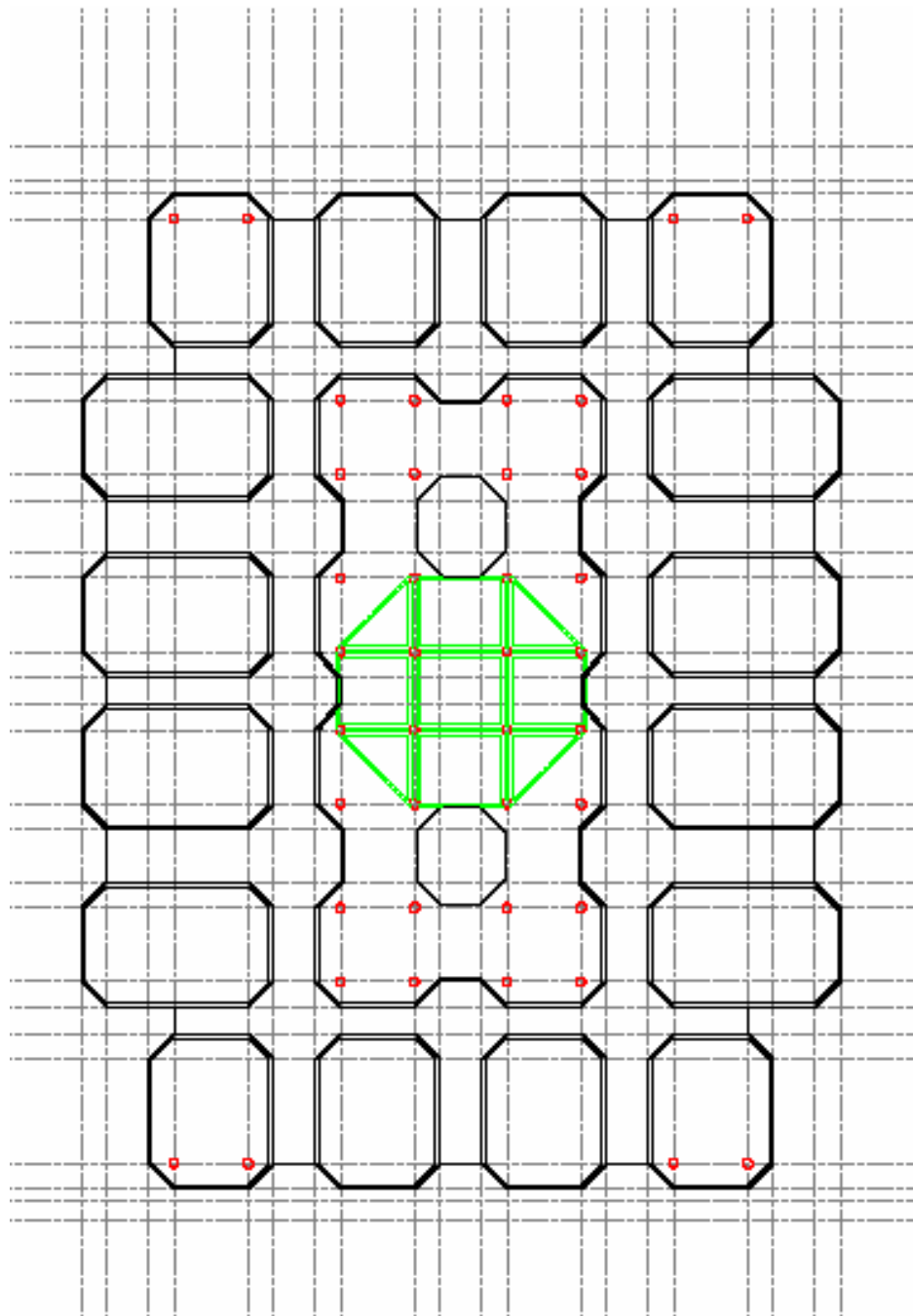
CRACKING AT BEAM HINGE

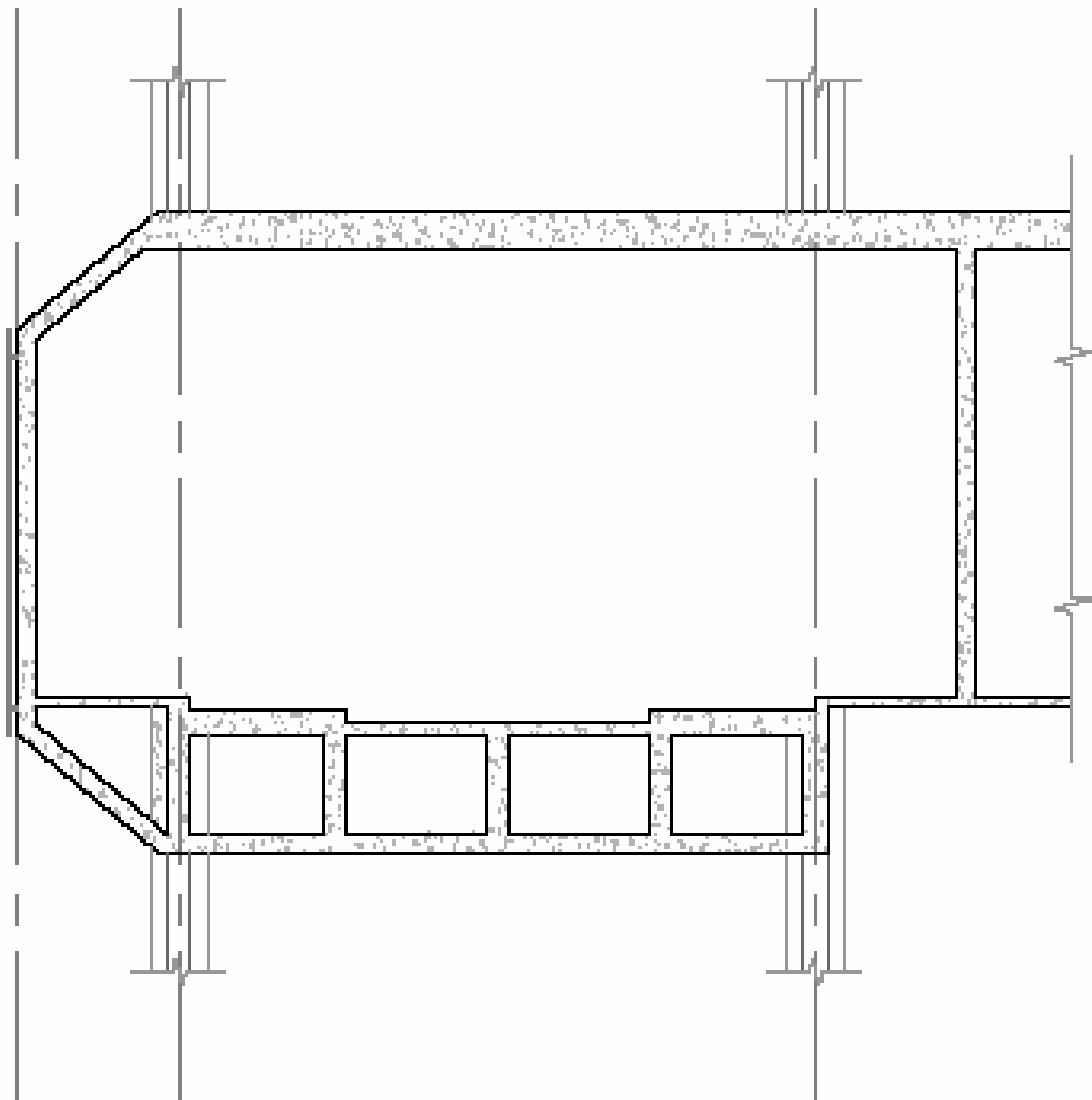


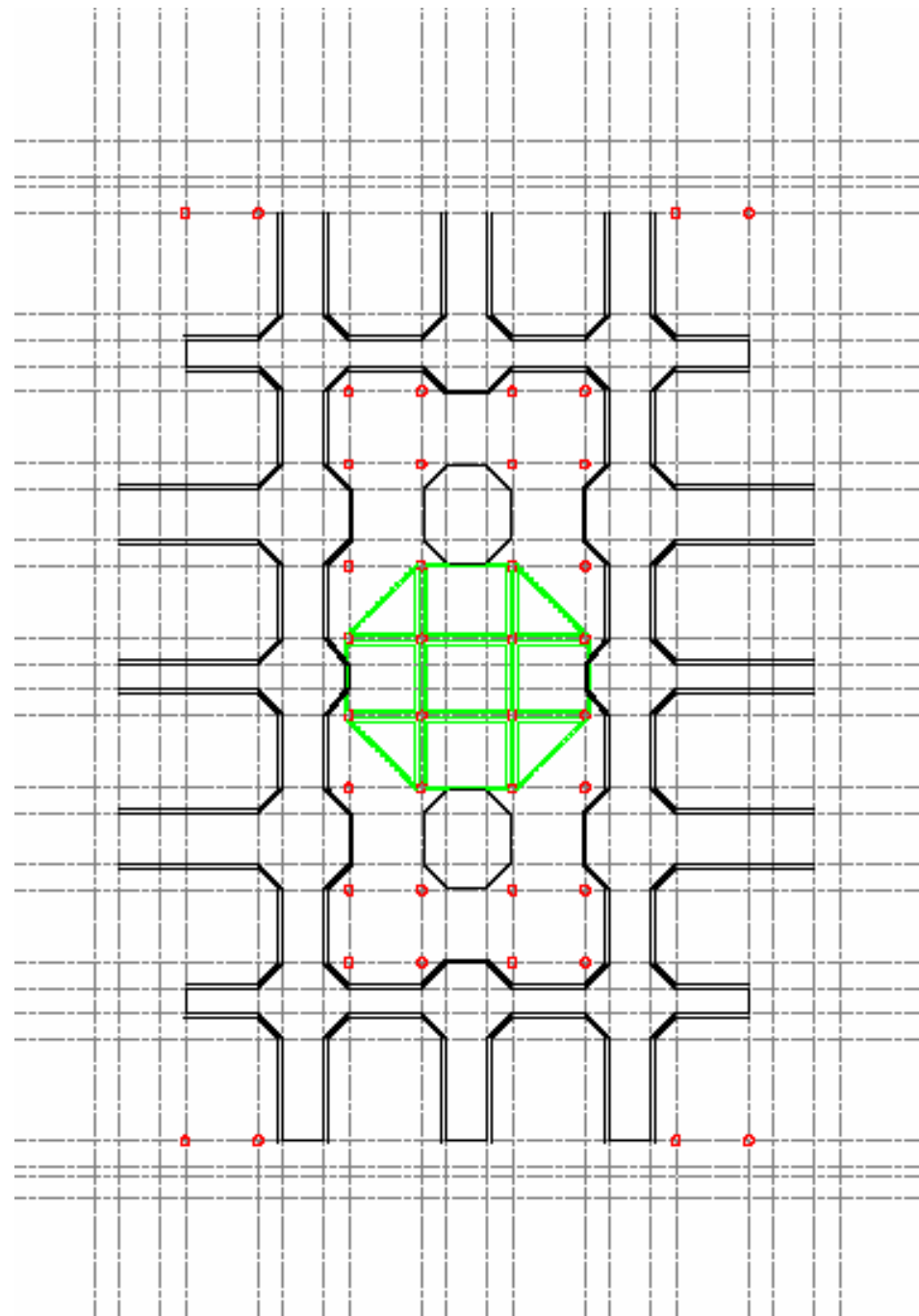
COLUMN AND JOINT DETAILING

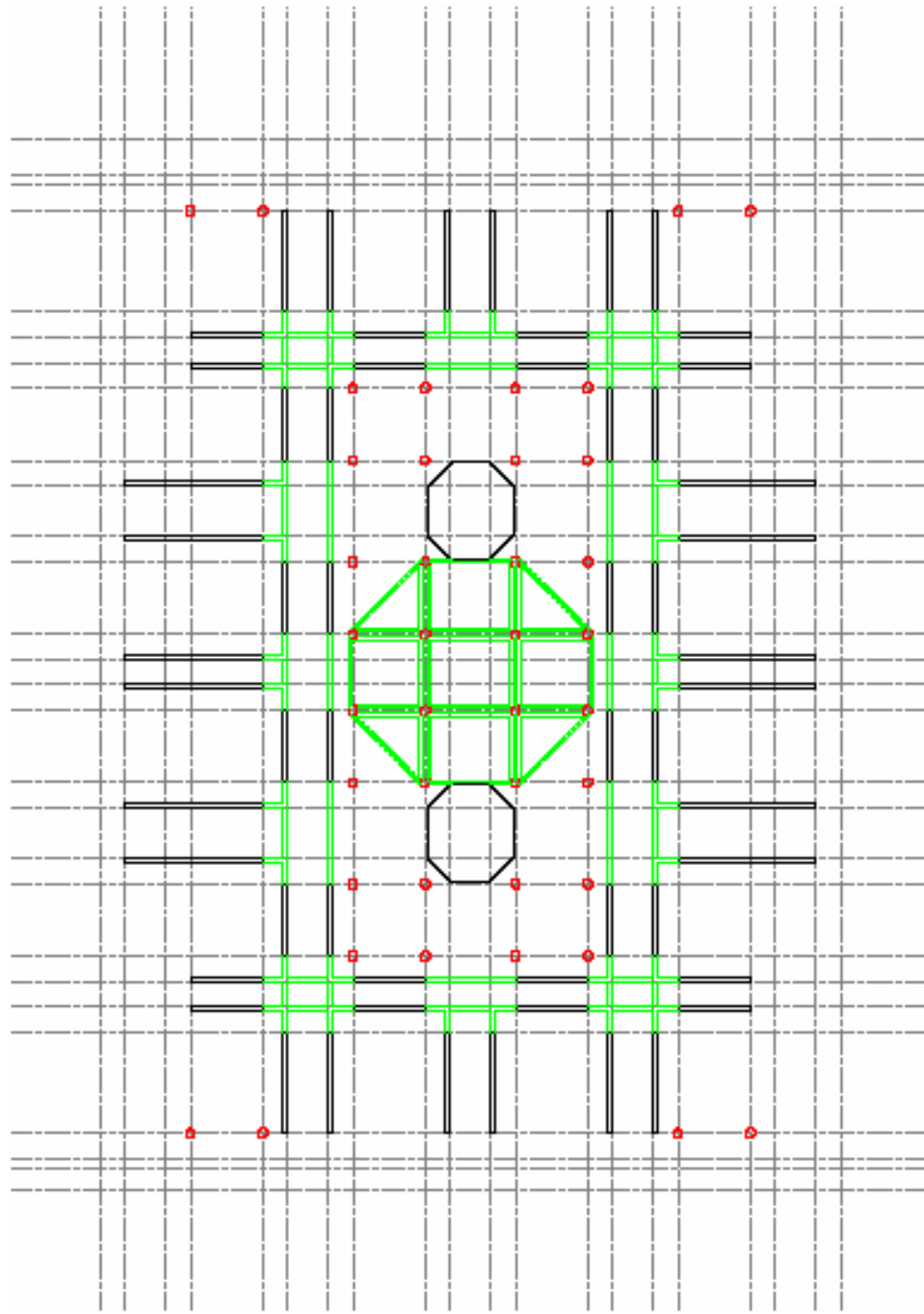


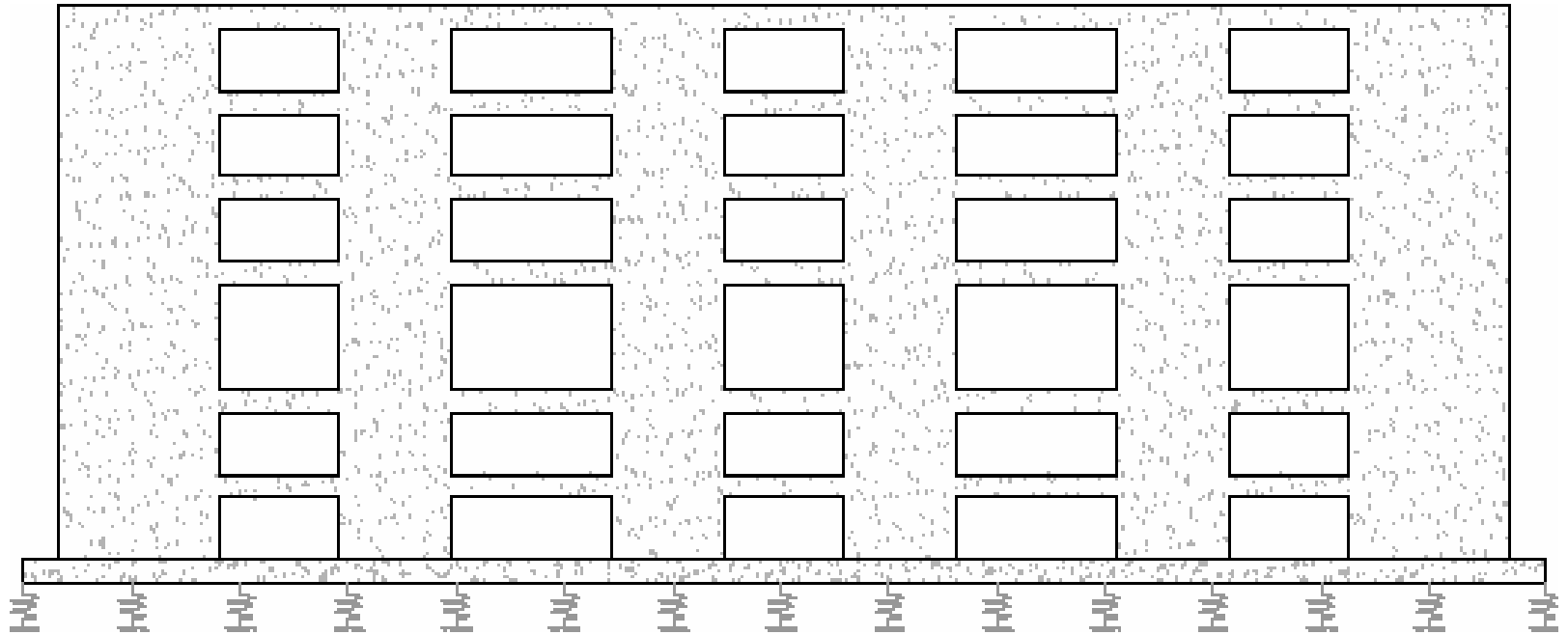
BEAM REINFORCEMENT













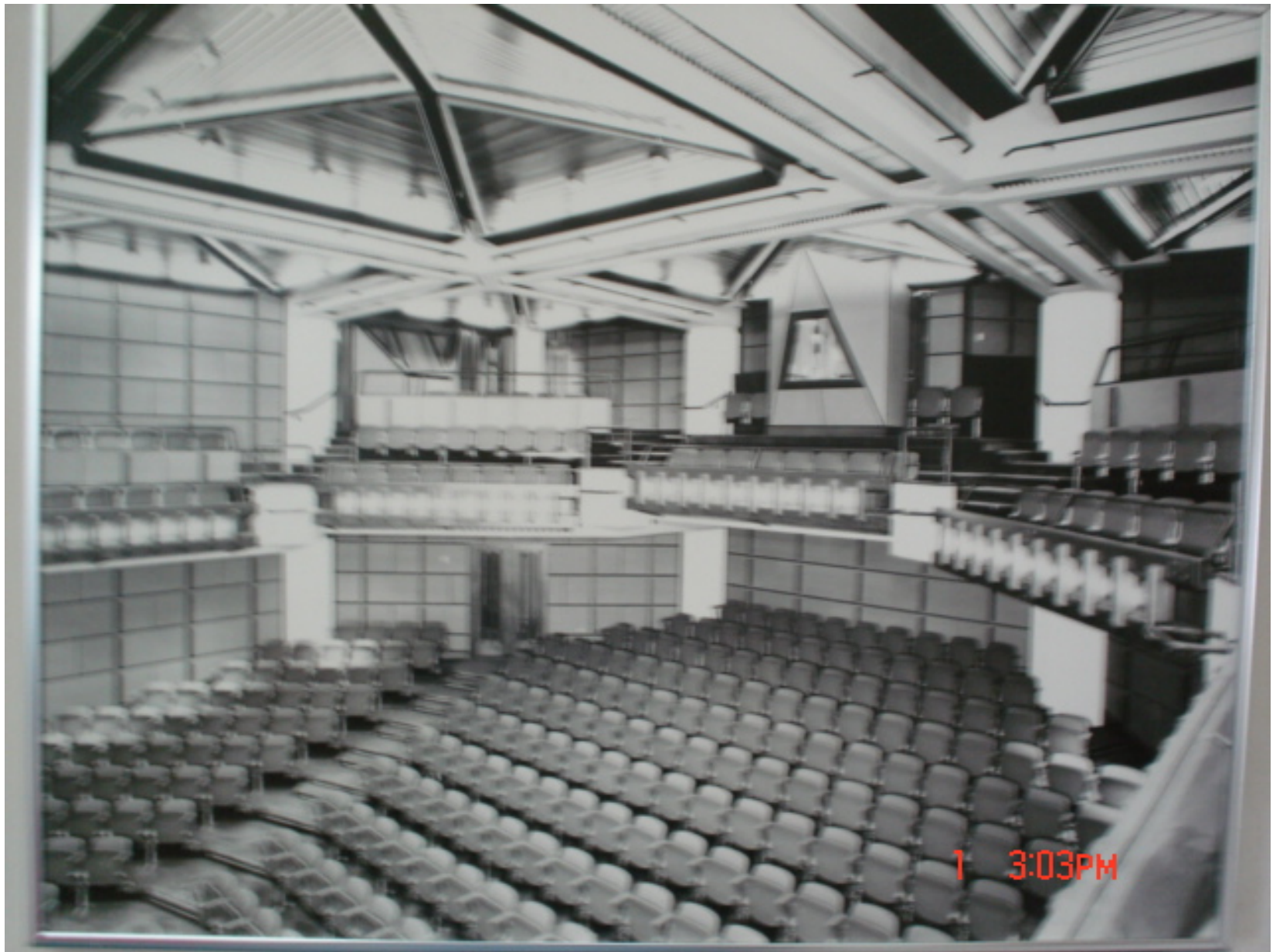






1 3:06PM







3:06PM