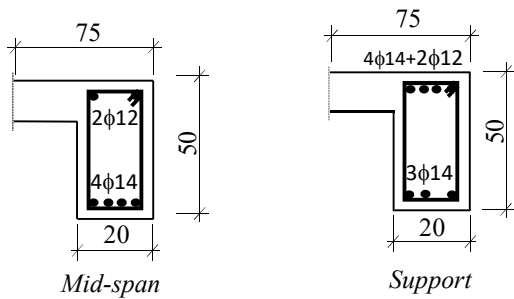
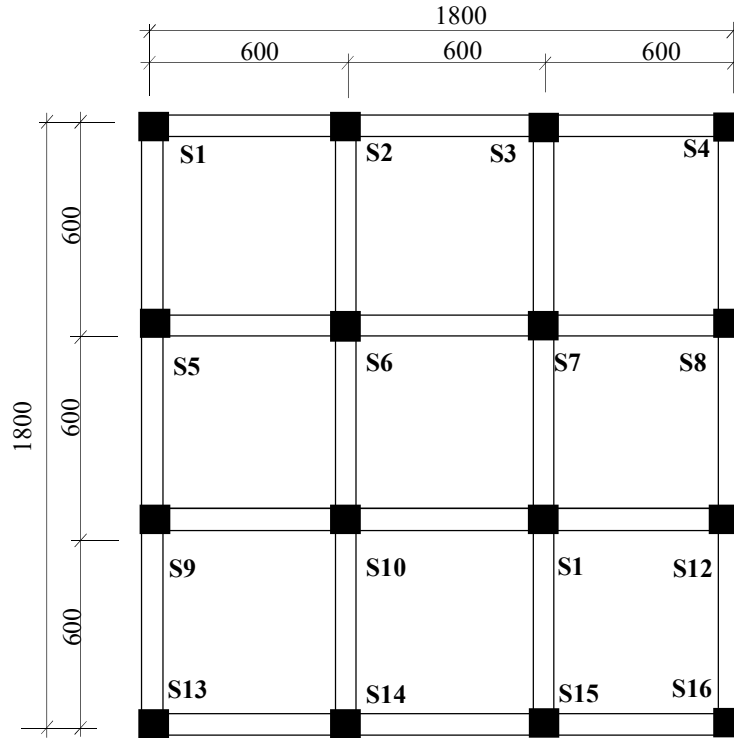
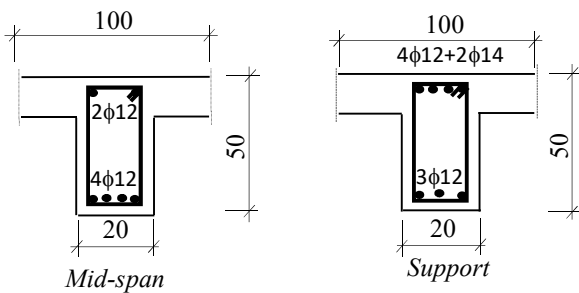


Investigation and Strengthening of RC Buildings (2021-2022 Spring)

Performance evaluation of the 5 story RC building given below with its plan and other information will be carried out

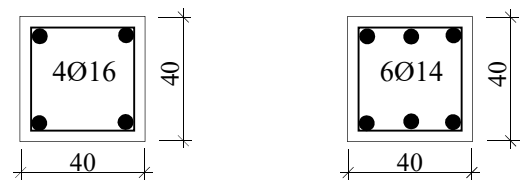


Beam sections for perimeter frames



Beam sections for internal frames

Column sections



- Stirrup for all columns is $\phi 8/25\text{cm}$
- Stirup for all beams is $\phi 8/20\text{cm}$
- $d'=40\text{ mm}$
- Footing type is single with dimensions of $150\text{cm} \times 150\text{cm} \times 30\text{cm}$ / Tie beams are $30\text{cm} \times 30\text{cm}$

In case a new building is built instead of strengthening the existing one, the maximum story number of the new building can be 4.

