

# R-Homes Bliss Heights Phase-1



SIE scope includes Structural designs for the proposed Township project.

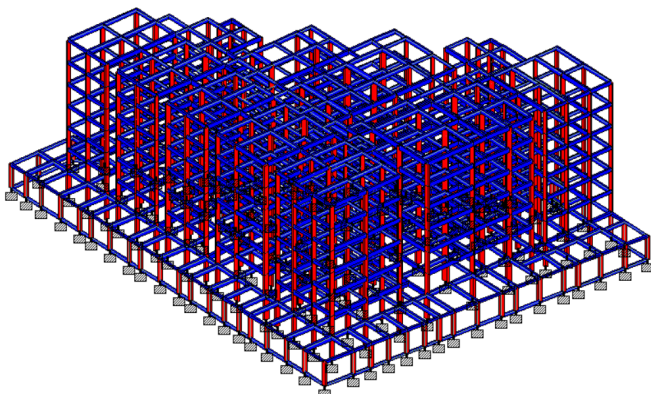
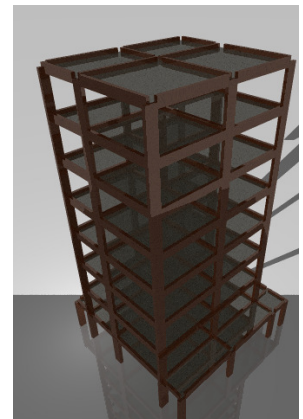
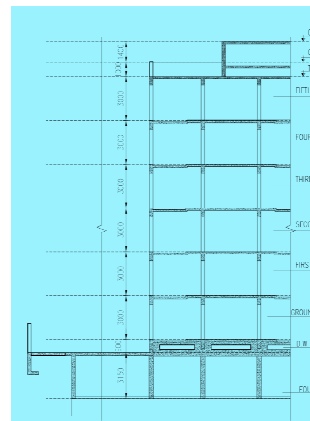
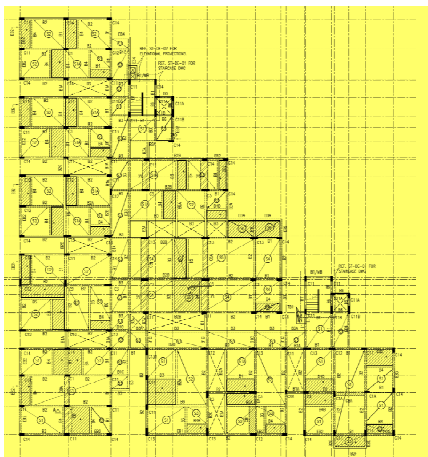
It is an R.C.C. Structure of Storeys Basement+G+5

Building plan is of nearly triangular shape of 60m length. Expansion Joints are not provided and instead the Structure is designed for Thermal stresses.

- Designed for Seismic Zone-2 and wind speed of 44m/sec.
- Columns are spaced typically ranging from 3.7m in one direction and 5.9m in other direction to suit Car parking layout and Residences arrangement.
- Analysed using ETABS and Staad Models are developed for this Structure.
- RCC of M30 Grade is chosen for Raft/mat foundations, vertical elements and basement walls whilst M25 for Rest of elements.



- Soil Report indicated Medium dense Silty Sand and SBC of 150kPa. Raft Foundation of varying thickness of 650mm at Column locations and 300mm in rest of areas was provided which acts as Basement Slab as well and integral with Basement RCC Retaining walls.



**Date:** 2021 – Ongoing

**BUA:** 107000 SFT

**Client:** R-Homes.

**Type:** RCC

**Firm's Responsibilities:** Structural Designs and Drawings