

ABSTRACT

This project came up due to the increased number of population in Nairobi. People from rural areas migrates to the city for various reasons including higher education and access to different sectors of the government offices. Increase in population leads to increase in demand of houses.

The project is supposed to address this demand by proposing construction of a nine-storey reinforced concrete apartment. The proposed site is located in Nairobi County. The design was to be carried out in accordance to the Eurocodes and prepare detailed drawings so as to provide an engineering structure that is serviceable and able to withstand all the vertical and lateral loads that it would be subjected to its forecasted lifespan while fulfilling the requirements of rigidity, stiffness and stability.

The detailed drawing and layouts of the project was done using Revit 2023 software. Design and Analysis were carried out in accordance with the standard codes of practice such as Eurocode. Calculations were done with the help of Prokon and Design Spreadsheets and bar bending schedule was produced.