

BACHELOR OF SCIENCE (HONOURS) (ARCHITECTURE)

BUILDING STRUCTURE ARC 2522

Project 2

Case Study – Renovation Work to an R.C Structure

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Introduction

This project consist of both a group assignment & an individual component. In a group consisting of not more than eight members, an RC Structure had to be chosen and a sideway extension had to be added to the existing structure. Plans, both structural and architectural had to be drawn up along with three dimension visual aids. This would provide a basis of the column and beam structure present in the RC. Individual proposals were thereupon submitted, where understanding of Beam analysis as well as Column analysis were an important part.

Aesthetics of the Building

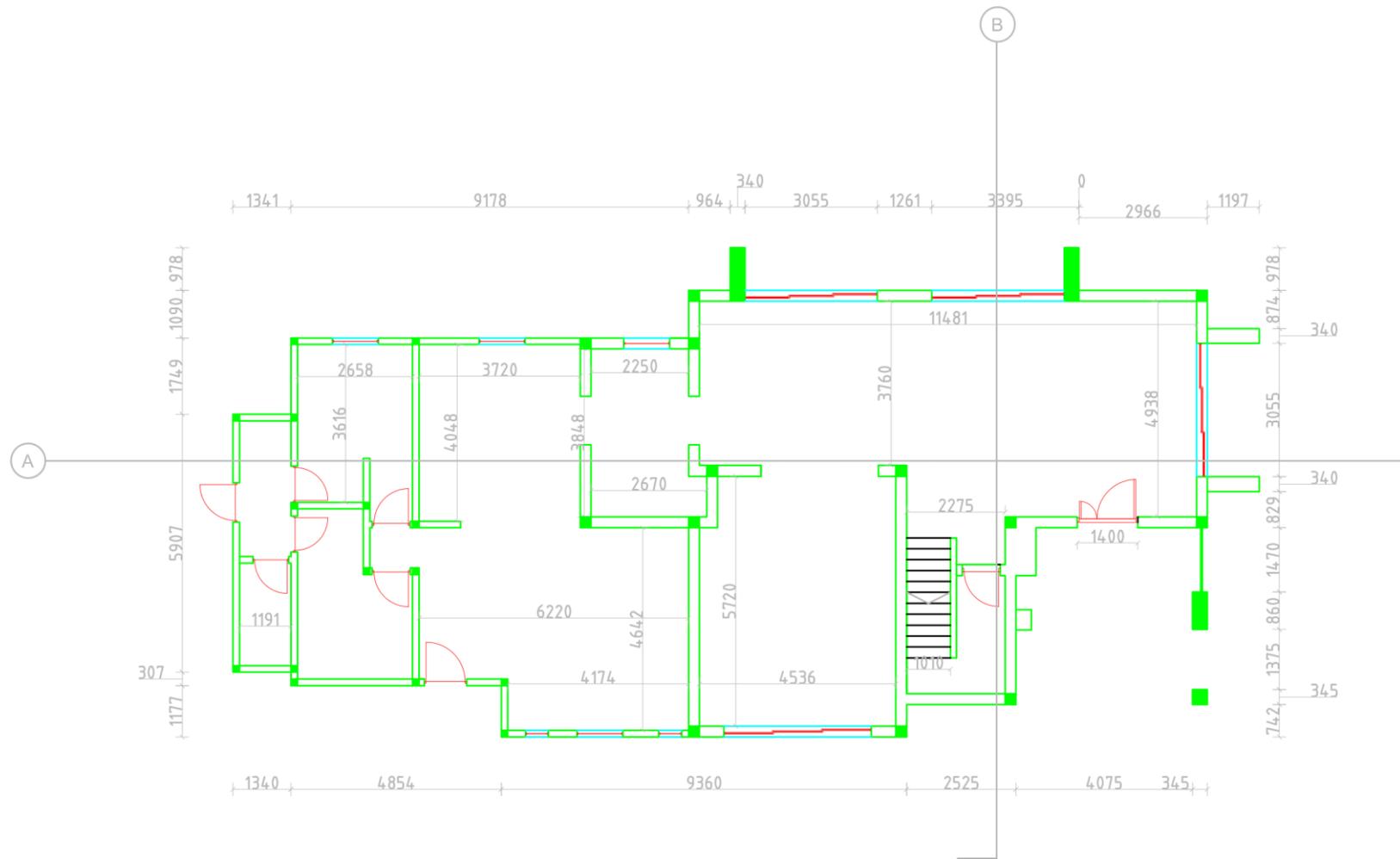


Description of RC Structure

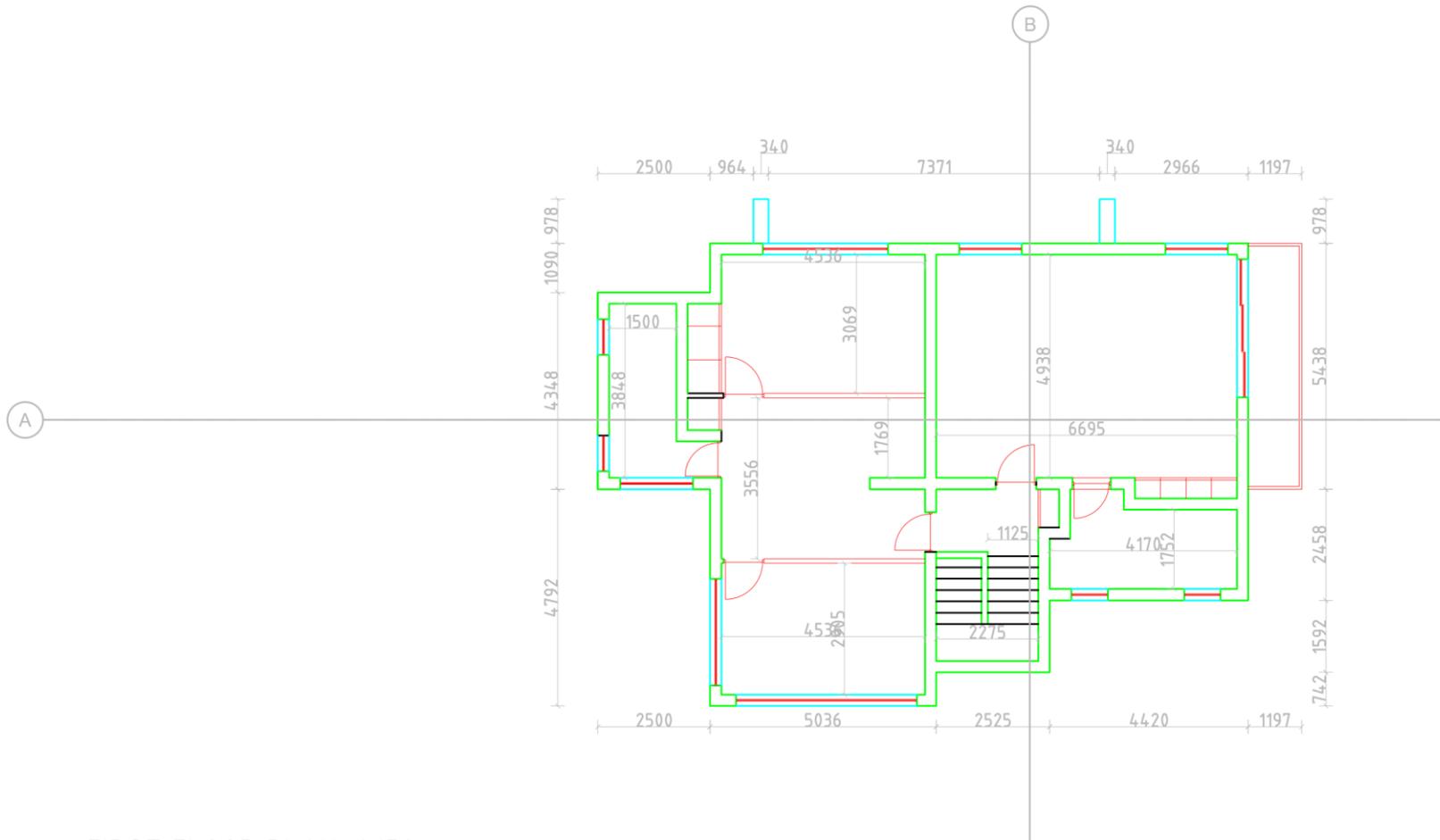
Structure is a 2 Storey Bungalow located in Jalan U-Thant, Kuala Lumpur.



Measured Drawings



GROUND FLOOR PLAN 1:150



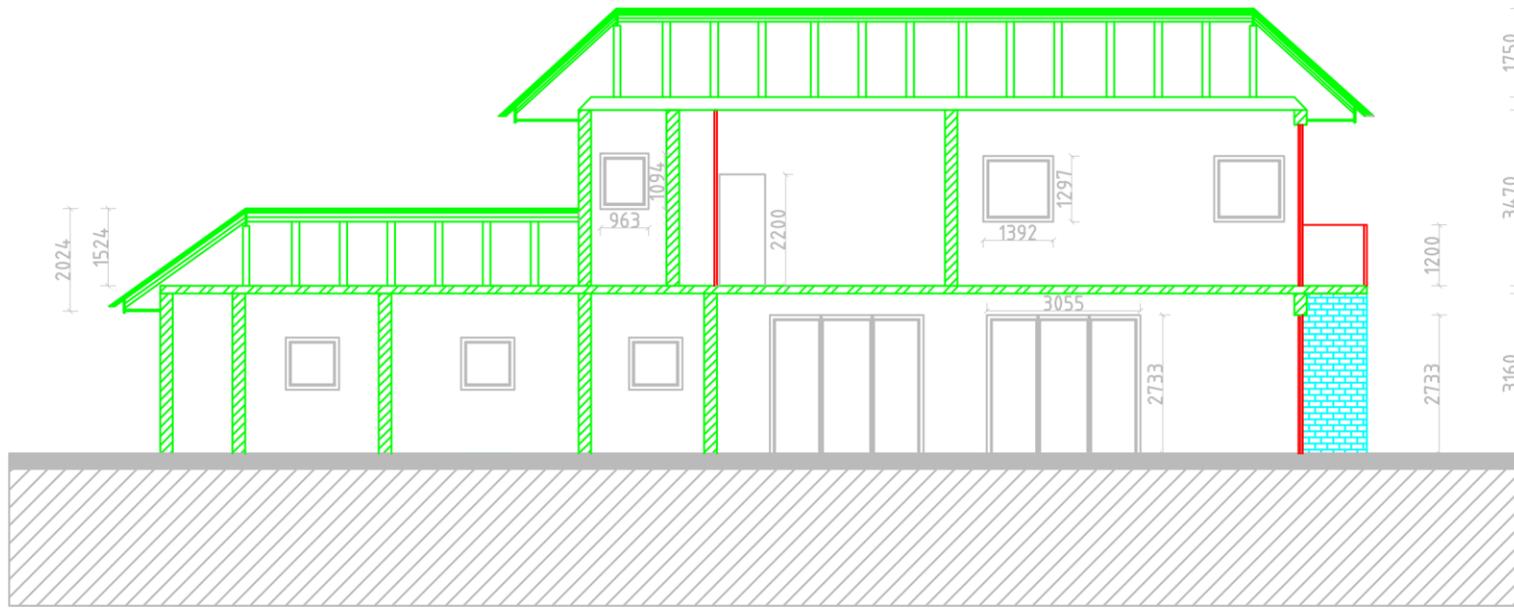
FIRST FLOOR PLAN 1:150



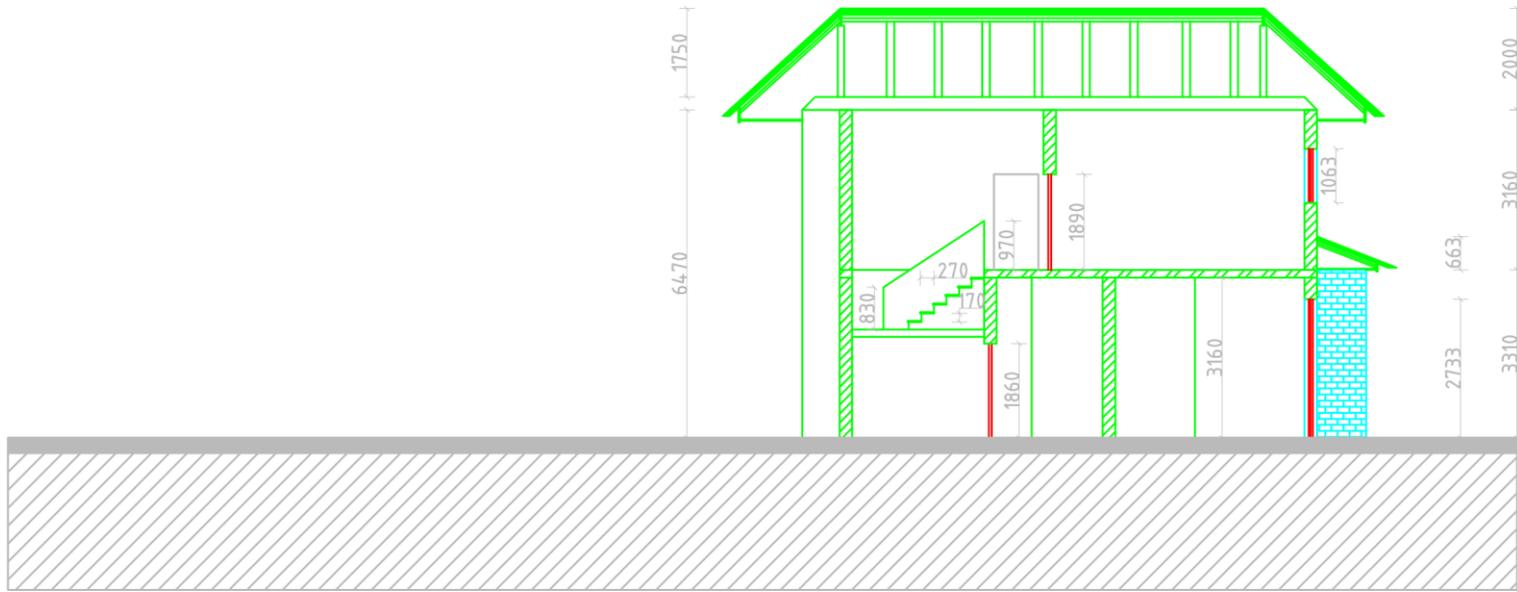
Front Elevation 1:150



Side Elevation 1:150

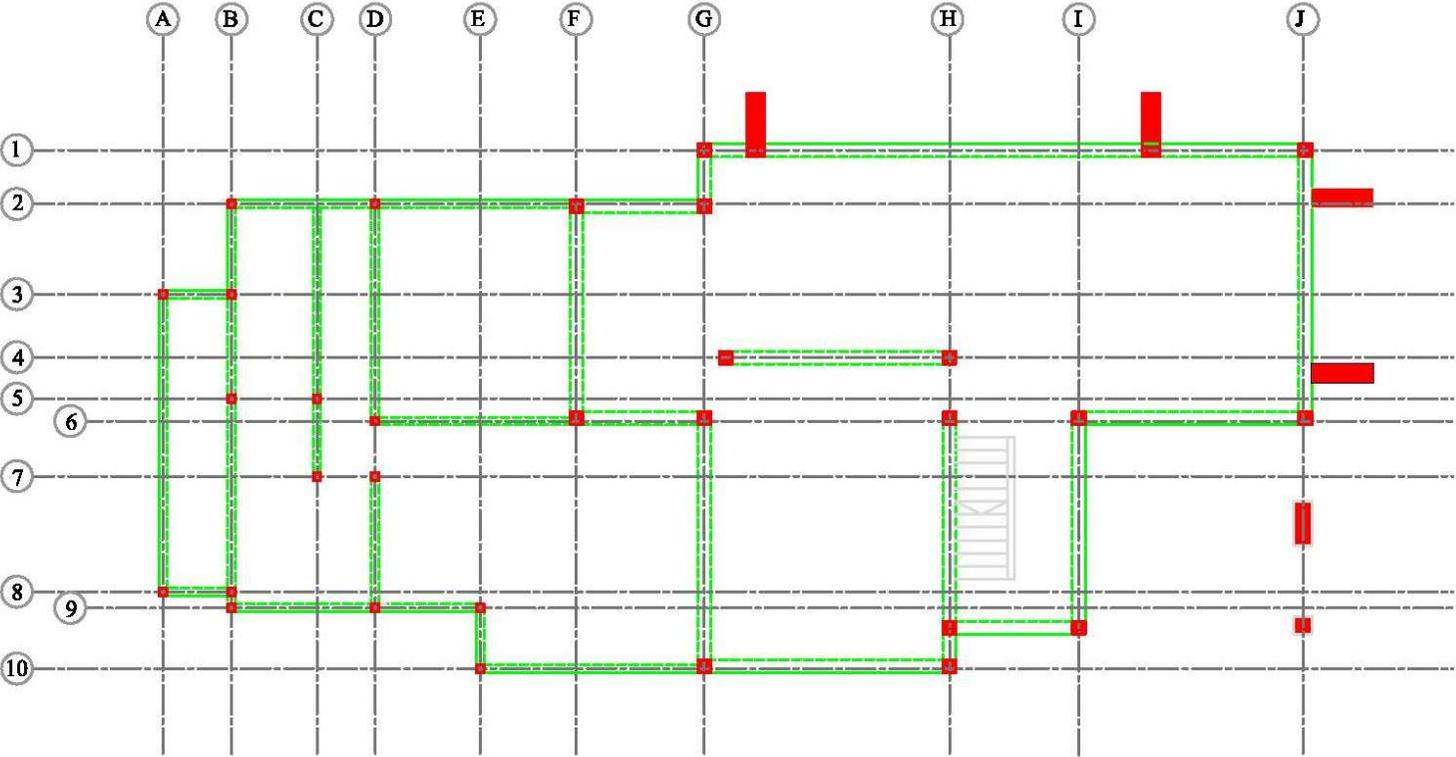


SECTION A-A' 1:150

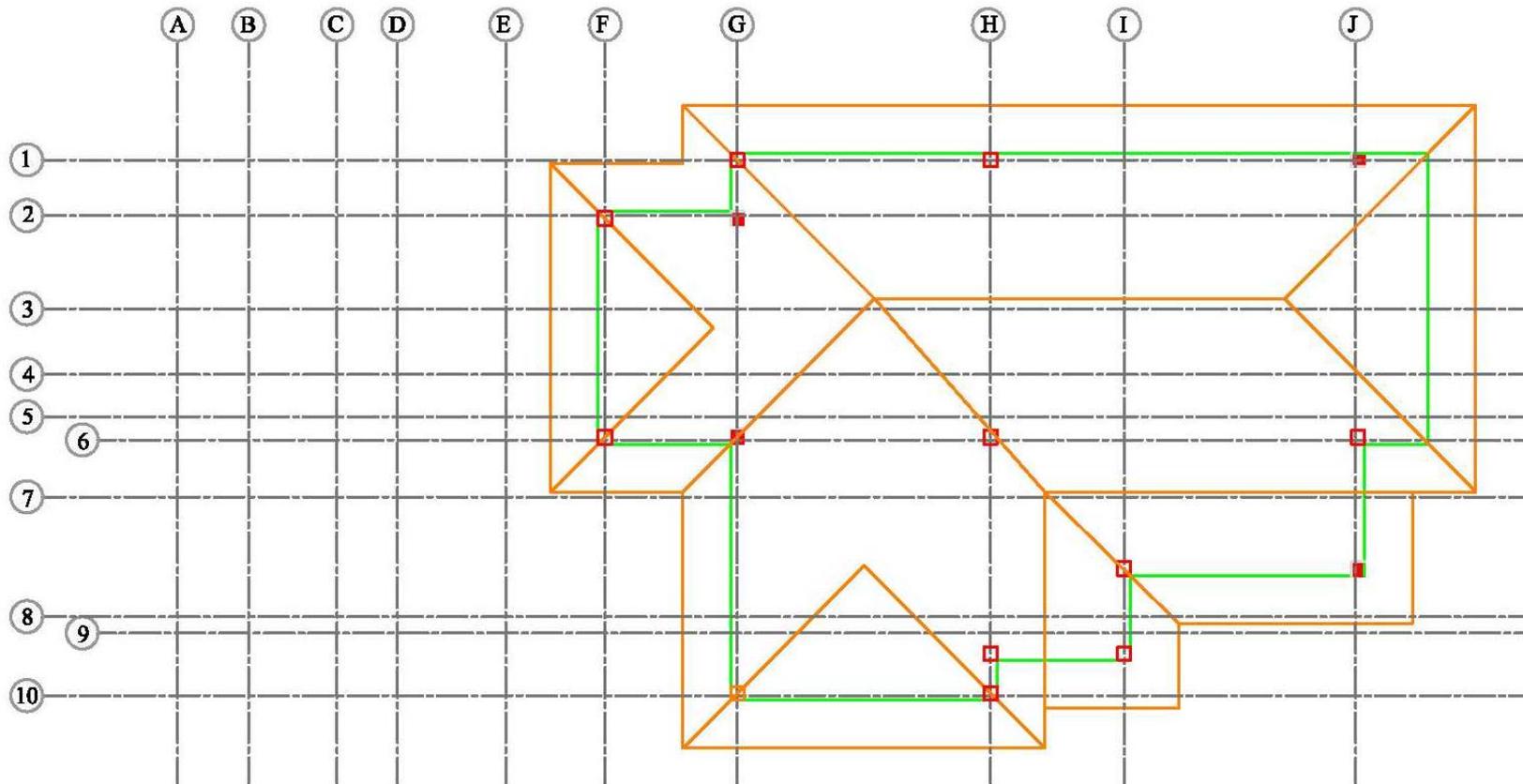


SECTION B-B' 1:150

Structural Plans



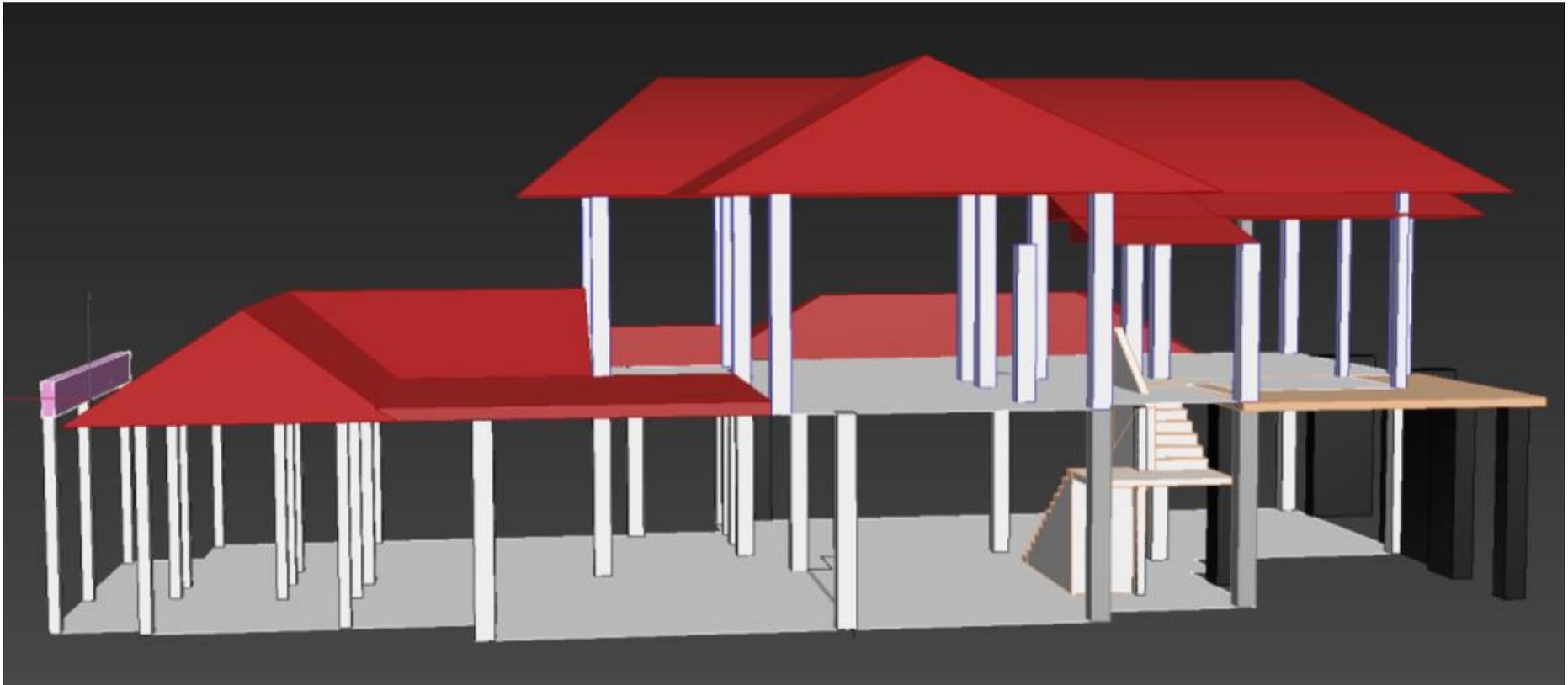
GROUND FLOOR STRUCTURAL PLAN | 1:150



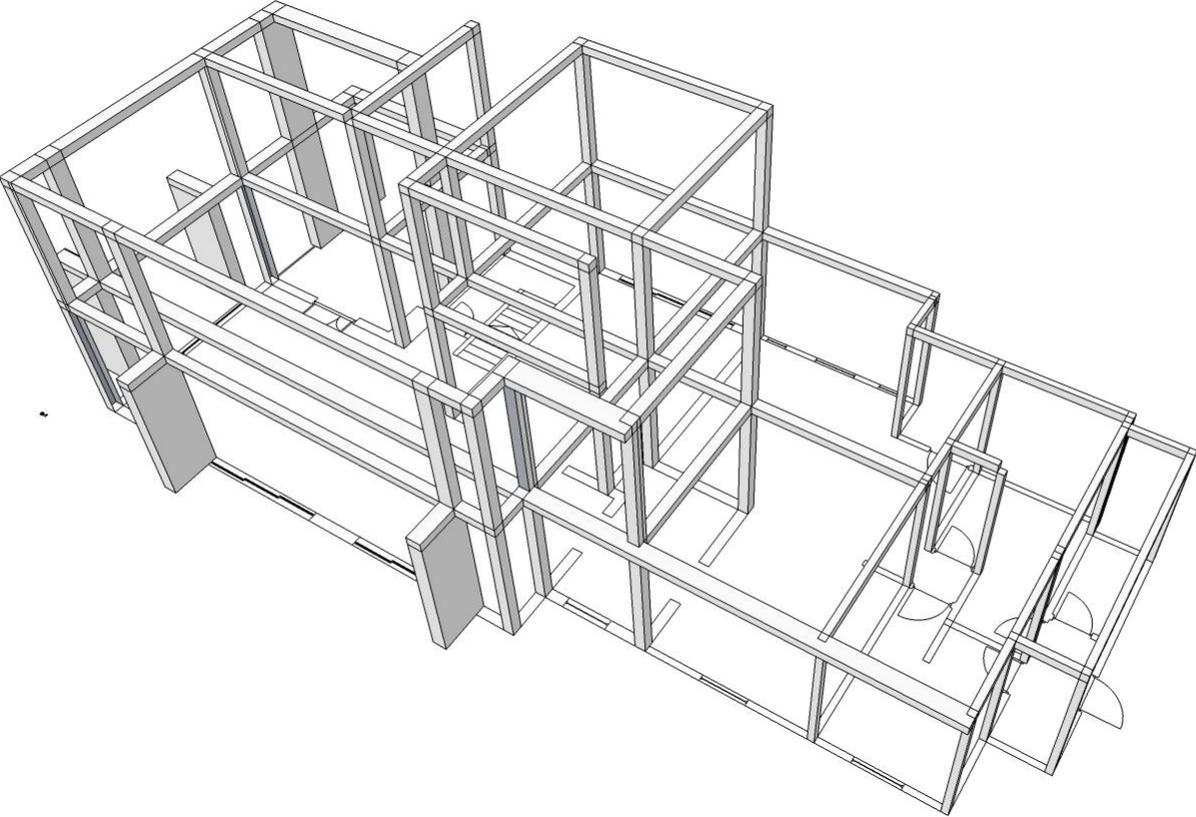
FIRST FLOOR STRUCTURAL PLAN 1:150

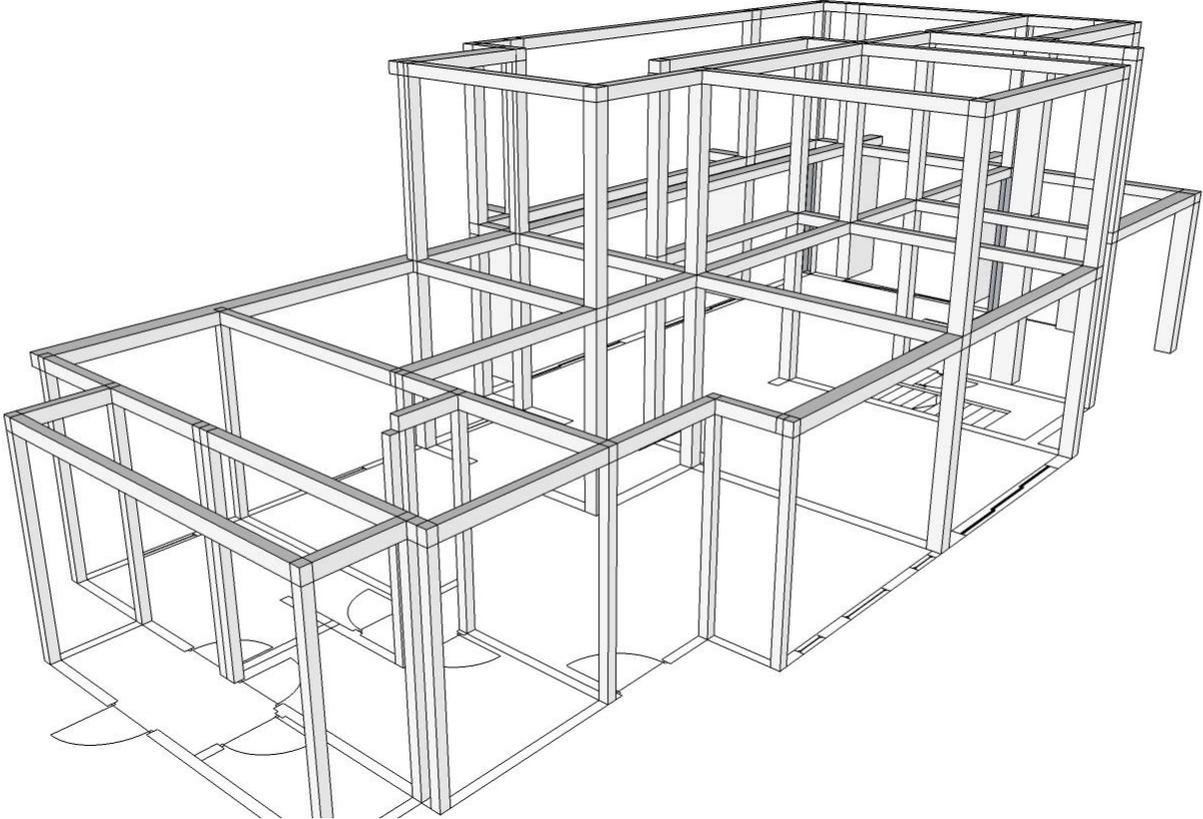
3D Visual Aides

3D of Full Structure



3D Beam & Column





3D of Framing System

