



TAYLOR'S UNIVERSITY

Wisdom • Integrity • Excellence

SCHOOL OF ARCHITECTURE, BUILDING & DESIGN

Research Unit for Modern Architecture Studies in Southeast Asia
Bachelor of Science (Honours) (Architecture)

Building Structure [ARC 2522/2523]

Project 2 Extension of a R.C. structure

| Group Members | Student ID |
|----------------------|-------------------|
| Yii Hong Gin | 0316120 |
| Soh Wei Aun | 0316887 |
| Tan Foo Wong | 0310004 |
| Chia Wei Pink | 0316971 |
| Cheong Siew Leong | 0310845 |
| Kee Yu Xuan | 0315042 |

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| 3.0 INDIVIDUAL EXTENSION PROPOSAL | |
| 3.1 Group: TAN FOO WONG & CHIA WEI PINK | |
| 3.2 Group: SOH WEI AUN & YII HONG GIN | |
| 3.3 Group: KEE YU XUAN & CHEONG SIEW LEONG | |

1.0 INRODUCTION

This project required us to obtain a floor plan of a bungalow with a maximum height of 3 storeys. Using the floor plan obtained, in groups of 6, we were required to frame the building and prepare structural plans of the building which includes a foundations plans, ground floor plan, first floor plan and roof plan.

Within a subgroup of 2 members, we were required to propose an extension to the bungalow that must not exceed 30% of the existing floor area and should be of two storeys. The extension then needs to be framed and we were to identify and quantify the load acting on the structures through a beam and column analysis.

Site Details



Location: Jalan Bukit Segar 3, Bukit Segar, 56100 Kuala Lumpur,

Wilayah Persekutuan Kuala Lumpur, Malaysia

House Type : 3 storey bungalow

2.0 ORTHOGRAPHIC DRAWINGS

2.1 Visual

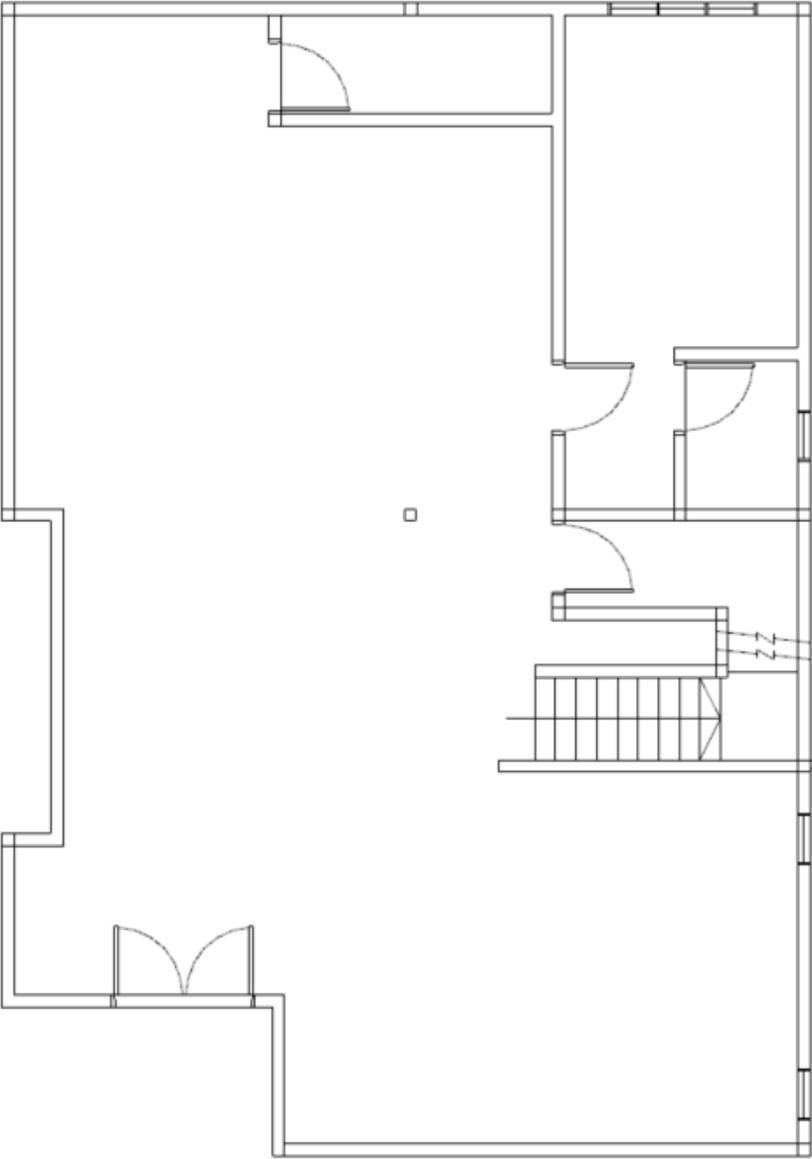


Front View

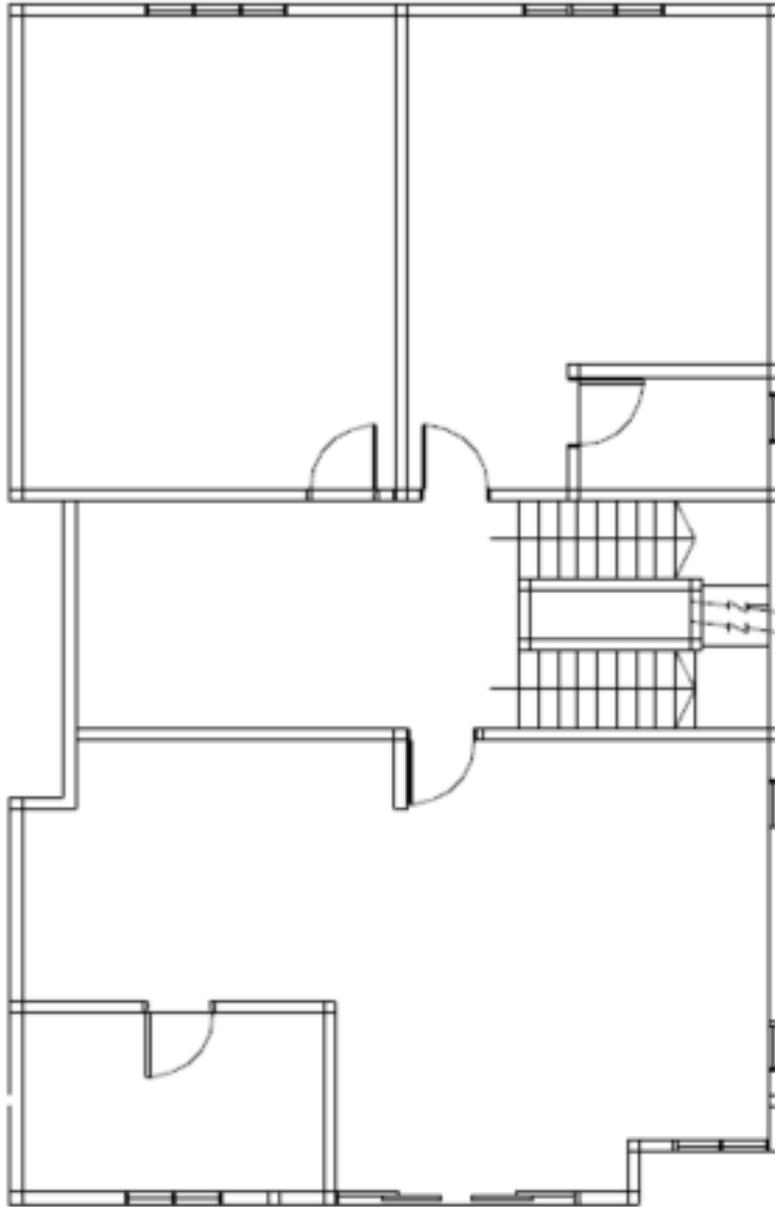


Side View

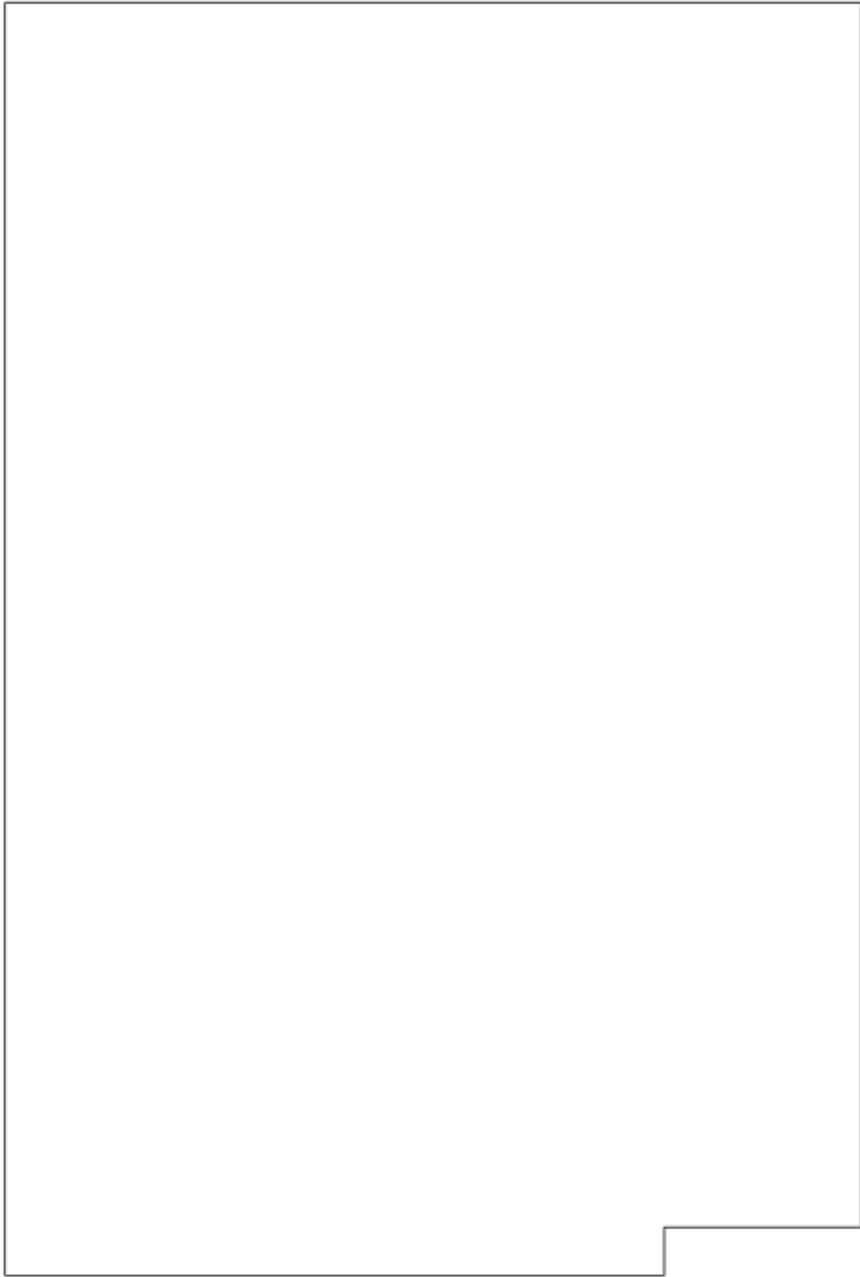
2.2 Floor Plan



Ground Floor Plan

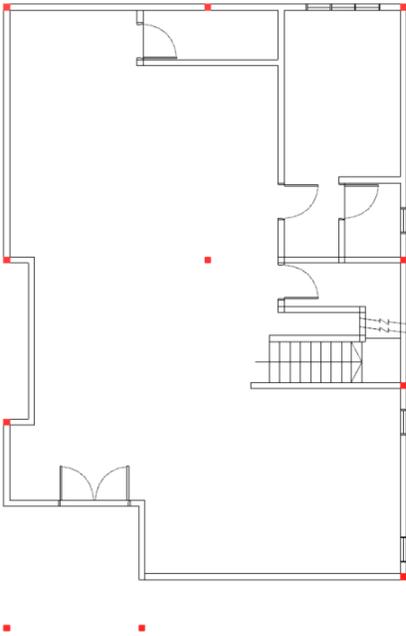


First Floor Plan

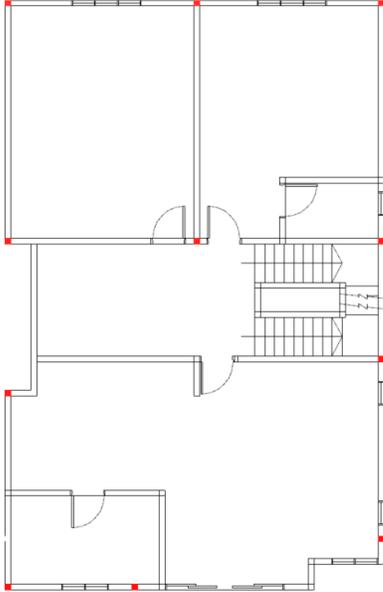


Roof Plan

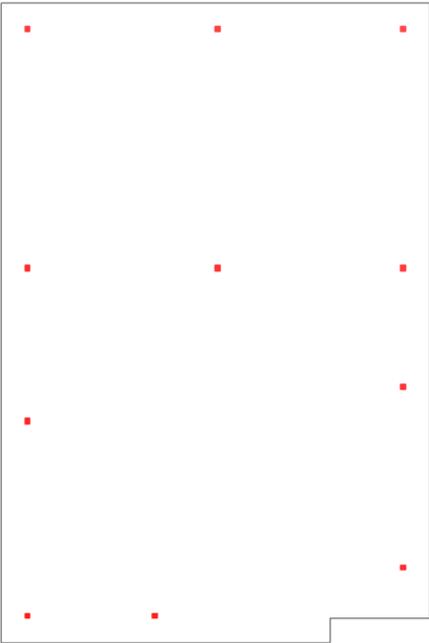
2.2 Structure Plan



Ground Floor



First Floor



Roof Plan

2.3 3D Structure Plan

