

THE DESIGN OF A LAKESIDE BUNGALOW IN MASONRY

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ABSTRACT

My title of the project is “Design A Lakeside bungalow in Masonry ” and it located at Taman Jasa Utama, 68100 Batu Caves, Selangor, Malaysia. Masonry is materials that seldom seen in Malaysia and as a designer of structure or engineer also discourages the client to build his building in masonry. Therefore, the information regarding masonry is less than reinforced concrete. In my bungalow have various types of facilities, such as Jacuzzi, swimming pool, badminton court, basketball court and etc. A guard house will be situated at the entrance of the bungalow and it ensures all the visitor is approved by owner before he enters into the surround of bungalow. All this facilities will be proposed in the master plan and the plan will label it where the bungalow located.

Furthermore, these projects also include the architectural and structural layout plan. It show that the design of bungalow to withstand the imposed loads according to BS 6399 Part:1 and the dead loads just based on the structure in the building. Basically, structure of the bungalow is designed by steel, reinforced concrete and masonry. The calculation is started with roof truss, 1st floor wall, slab, ground floor slab, and staircase. In conclusion, this report shows the design a bungalow in masonry and a part of engineering knowledge.

Summary – Expected Outcome

- **Architectural layout plan**
 - Floor Plans
 - Elevation
 - Sections and Details
 - Specification (general notes, site work, concrete, masonry, etc.)
- **Structural Layout Plan**
 - Floor Framing Plans
 - Roof Framing/ Ceiling Framing Plan