

ABSTRACT

RE-PLANNING OF HOTEL BUILDING STRUCTURE OF IBIS BUDGET SURABAYA WITH REINFORCED CONCRETE AND SLIDING WALL ACCORDING TO SNI 2847-2012 AND SNI 1726-2013

Imam Sholikin, NIM : 13.042.009

The re-planning of the structure of the Ibis Budget Hotel building uses a double system, which is a combination of a moment bearing frame system with a sliding wall. In the re-planning, it consists of 8 floors with all the main structures using reinforced concrete. This building was designed using SNI Decree 2837-2013 for reinforced concrete calculations and SNI Decree 1726-2012 for earthquake calculations.

The re-planning of the Ibis Budget Hotel building consisted of the upper building which included beams, columns, floor plates, roof plates, stairs and shear walls. Then the lower building which includes sloof, pie cap, foundation,. The re-planning of the Ibis Budget Hotel building also takes into account the load acting on the structure such as dead load, live load, earthquake load and wind load.

The planning stage of the building structure begins with data collection, then the determination of the dimensions of the main beam, joist and column. The next step is SAP2000 modeling to calculate the structure, analysis of the main structure, check the SNI 2012 and SNI 2013 control requirements, if YES then continue the foundation planning, drew reinforcement details.

Keywords : redesign of the structure, the ibis budget hotel building