

## **ABSTRACT**

### **HOTEL SANTIKA BATAM BEAM STRUCTURE ANALYSIS**

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*This internship aims to analyze and design the strength of the Santika Batam hotel building beam structure in supporting the load resulting from the construction load and the post-construction load that works on the building. Internships are conducted during the period 4 February 2019 to May 4, 2019.*

*The output obtained from this internship, is the procedure of the implementation of work, the stages in the construction of a building structure, to the method of carrying out maintenance in the structure of the building and procedures for fixing the damage or failure of the building structure.*

*The 2nd floor concrete beam structure on grid A ' / 4-6 in the construction project of the Santika Hotel Batam Building requires 400mm x 850mm beams, with reinforcement support (top 10-D19, bottom, 5-D19), field reinforcement (top 5- D19, under 5-D19), 2-D10 side bars and D10-200mm cross-bars. The results of the analysis show that the installation of the size and reinforcement of the 2nd floor beam on grid A ' / 4-6 can withstand the load and force that occurs.*

*Keywords: analysis, development project, structure, beam*