

REVIEW STRUCTURE REINFORCED CONCRETE BEAM and PLATE

"Faculty Academic Services Building UNY" By SNI 03-2847-2002

ABSTRACT

Technic Faculty Academic Services Building of UNY is a four-story building located in the district of Sleman, Yogyakarta. The building structure is designed using SAP software in accordance with SNI 03-2847-2002 on the Procedure for the Calculation of Structural Concrete Building. In planning the intensity of the earthquake in Yogyakarta and surrounding areas come in three zones or regions.

The Final Project examines a matter of reinforced concrete structures for beam and plate in the College of Engineering Academic Services Building UNY. This study done by manual calculation in accordance with SNI 03-2847-2002 on the Procedure for the Calculation of Structural Concrete Building.

The Final results from a beam in the building in the form of the moment plans are allowed to work in the Building Services Engineering Faculty Akademik. For the final results of the study Plat type 1: Reinforcement widely used field direction x 567.4 mm² reinforcement plate, but from the results of extensive studies using reinforcement plate 563.3 mm², Reinforcement field direction y is widely used reinforcement plate 567.4 mm², but from the results of extensive studies using reinforcement plate 495.5 mm², reinforcement is used widely pedestal direction x 567.4 mm² reinforcement plate, but from the results of extensive studies using reinforcement plate 553.8 mm², and y directions reinforcement pedestal widely used reinforcement plate 567.4 mm², but from the results of extensive studies using reinforcement plate 495,5mm². While type 2 Plat: Reinforcement widely used field direction x 364.2 mm² reinforcement plate, but from the results of extensive studies using reinforcement plate 552.8 mm², Reinforcement field direction y is widely used reinforcement plate 364.2 mm², but from the results of extensive studies using reinforcement plate 495.5 mm², reinforcement is used widely pedestal direction x 364.2 mm² reinforcement plate, but from the results of extensive studies using reinforcement plate 553.8 mm², and y directions reinforcement pedestal widely used reinforcement plate 364.2 mm², but from the results of extensive studies using reinforcement plate 495.5 mm².

Keywords: Assessment, Structure, SNI 03-2847-2002, Building Services Engineering