

ABSTRACT

Rizky Bayu Firdaus, 15317331

Mega Manunggal Property Warehouse Project. Method Implementation and Calculation of Conventional Beam Reinforcement Floor 2 As 6-7/H

*Departement of Civil Engineering. Faculty of Civil Engeneering and Planning.
Gunadarma University.*

(xvi + 99 + Lampiran)

Mega Manunggal Property Warehouse Project, Jalan. Irigasi Harapan Jaya, RT 03/ RW 07, Kec. Medan Satria, Bekasi City, Jawa Barat, 17132. This building has an area of ± 47.000 m² (Main Warehouse) which consists of 2 floors. The type of contract used in the Mega Manunggal Property Warehouse Project is a Lumpsum Fixed Price with a contract value of Rp. 180.000.000.000 (Include VAT). Mega Manunggal Property Warehouse Project starts on 15 November 2019, which is planned to be completed on 15 April 2021. Warehouse of Mega Manunggal Property functions as a motorbike storage area on the first floor and the second-floor functions for fish storage. PT. Total Persada Indonesia as the contractor building the Mega Manunggal Property Warehouse Project, Pondok Ungu. Building components in the Mega Manunggal Property Warehouse Project consist of foundations, columns, beams, and plat floor. The Special problem taken is the method of implementation and calculation of conventional beam reinforcement. The method of implementing beam work begins with determining the beam elevation, installing scaffolding, beam ironing, formwork installation, casting work, dismantling formwork and scaffolding, and then finishing the beam. Calculations carried out are on the second floor as 6-7/h type BP2 (B1835). The calculation is done by calculating the need for reinforcing iron material. Based on calculation obtained, it requires 58 D32 bars, 74 D13 bars, and 14 D10 bars, or 1.732,922 m with the total weight 5.327,630 kg.

Kata kunci: Method of Implementation, Beam, Reinforcing, Needs Reinforcing Iron Material