

Pengaruh peningkatan constructability pada tahap perancangan terhadap kinerja waktu pelaksanaan proyek konstruksi di Indonesia

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Abstrak

The Influence of Improving Constructability during The Design Phase on the Performance of Construction Project Schedule in Indonesia

Constructability as defined by Construction Industry Institute, Constructability Concepts File, The University of Texas at Austin as; the optimum use of construction knowledge and experience during the phases of planning, designing, procurement and construction to achieve the project goal. Constructability involves the thought of how to build a project even before it is designed.

Currently there are three issues which dominate constructability applications; design, layout, and construction method. In order to obtain deeper understanding of the potential application of Constructability for Construction Project implementation, the research focussed on the effect of its key characteristics introduced during the design phase on the performance of Construction Schedules in Indonesia.

Data was obtained through questionnaires from project architects and structural engineers of Consultants in 24 Construction Projects executed during the last decade between 1985 - 1995. Correlation and multiple regression analysis were utilized to establish models on the relation between Constructability variables and Construction Schedule Performance. The degree of completing construction projects as measured by actual against planned time performance proved to be related to Constructability variables in a linear manner.

From the analysis of 48 prospective explanatory Constructability variables during the design phase identified three determinants influencing Construction Schedule Performance. The three significant Constructability variables were; to confirm the filing system (x23), to describe the pre-fabrication system (x43), and to define clearly the contractor limit in design document (x12).

Further research provided additional evidence of the existence of Constructability characteristics through dummy variables which were; to eliminated weather problem (x46).