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CONSTRUCTION OF REINFORCED CONCRETE STAIRCASE FOR HOUSING PROJECT AT TAMAN PULASAN, KEDAH

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ABSTRACTS

Basically, stairs consists of steps arranged in a series for purpose of giving access to different floors of building. Since stair is often the only means of communication between various floors of building, location requires good and careful consideration. The aim of this report is to discover and adding new knowledge on the installation of reinforced concrete staircase for housing project at Taman Pulasan, Kedah. The objectives of this report is to identify terminology and advantages of reinforced concrete staircase, and to study the methods of constructing R.C. Staircase. The methods of data collection are the unstructured interviews that has been carried out by asking some spontaneous question to the workers on site, semi-structured interviews by questioning several of questions to Mr. Nazli and Mr. Tan, document reviews and observation. In conclusions, it is hoped this study will inform a lot of information about construction of R.C Staircase such as the advantages and disadvantages of it, and the construction process that consist of clearance at construction area, constructing formwork, pouring concrete, and dismantling the formwork. Also as the reinforced concrete staircase have commonly been used in most of buildings in Malaysia.

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CHAPTER 1.0

INTRODUCTION

1.1 Background and Scope Study

The influence of stairs upon the movement of people and things through a space is twofold. In their oldest forms, stairs acted as the primary means of communication between spaces within a house, taking the place of the modern hallway (John, 1992). Nicholas Cooper, writes that as the important rooms of the English house moved from the ground floor to the first floor, they took on greater ceremonial function and were treated as a formal space with the requisite embellishment (Nicholas, 1999). The formalizing of this space led to the distinction between spaces for the upper classes and spaces for those who served them.

The secondary influence of stairs upon movement throughout the house is more important, but remarked upon less. Well-constructed buildings are a series of vertical and horizontal lines. They may have the occasional curved line used in an arch or a window, but the boldest statement comes in the diagonal of the stair. These diagonals are central to the experience of the individual looking at them and using them as stairs. While placed and designed according to architectural rules and aesthetic inclinations (John, 1992).

Even in the modern era, the uses of stairs become wide, especially for resident buildings. There are many types of stairs that can be used in every buildings based on their suitability. In instance, there are straight stairs which all steps lead in one direction, dog legged stairs that consist of two straight height flights running in opposite directions, quarter turn newel which turning through 90 degree with the help of level landing, open newel stairs where the opening is left between forward and backward flight.

For reinforced concrete stairs, the various parts or elements of the stairs are manufactured in a knock down condition, enabling transportation of various elements of the stairs to the location where the Stairs are to be erected. The stairs may be used