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**TRAFFIC MANAGEMENT CONTROL DURING ROAD CONSTRUCTION
IN PULAU PINANG: CONTRACTORS' PERSPECTIVE**

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of the requirement for the award of
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ABSTRACT

The road construction is important in the industry such as construct a new road or maintain the road in order to avoid any unnecessary accident from occur. To make sure that the construction when smoothly, contractor need to apply Traffic Management Plan into the project. Traffic Management Plan is a guideline that provided for the use of traffic devices that will notifies and guide the road user passing the work zone with the sufficient safety to the site worker. However, if contractor do not apply it, the accident rate will be increase. The aim of this research is to provide the outline of traffic management plan in road constructon to improve and minimize the accident in road construction site. Objectives of the research are to identify the causes of accident that commonly occur during road construction site, to determine the implementation of traffic management plan in road construction and to recommend the improvement of traffic management plan to minimize road accident during road construction. In order to achieve this objective, a quantitative method of research is used and questionnaire as the tools for data collection. The sampling method used for this research is purposive sampling and there were 148 number of G7 Contractor in Pulau Pinang as the sample frame and the questionnaire were distributed to all 148 G7 Contractor in Pulau Pinang. All data has been analysed using Statistical Package for Social Science (SPSS) software. As a result, cause of accident in the work zone area, the impact of Traffic Management Plan to the project and the improvement of Traffic Management Plan were discover. The result of this study may improve the implication of Traffic Management Plan since the impact is clearly highlighted.

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CHAPTER 1

INTRODUCTION

TRAFFIC MANAGEMENT PLAN DURING ROAD CONSTRUCTION IN PULAU PINANG: CONTRACTORS' PERSPECTIVE

Keywords: Traffic Management Plan, Road Construction, Contractor

1.1 INTRODUCTION

Road transportation appears to benefit both a country and an individual, particularly in terms of boosting access to jobs, economic resources, educational institutions, and medical centers (Kamarudin M.K.A, et.al. 2018). Urban roads, rural roads, and highways are the three types of roadways. Modern city expansion processes include the development of urban road infrastructure systems. Roads are a dominant transport asset and a valuable infrastructure used on a daily basis by millions of commuters around the world, covering millions of kilometres. Such infrastructure encompasses 15–20 percent of the total city area, and over 40% of the space in city centres. As a result, road infrastructure is unquestionably regarded as a large and important public asset that must be carefully managed throughout its lifespan. (Marovic I, et. Al. 2018)

Many mega or big projects for roads are constructed in examples like PLUS highway and NKVE highway. North-South Expressway is Malaysia's longest expressway. The PLUS Expressway stretches for 772 kilometres (482 miles) from Bukit Kayu Hitam to Johor Bahru. Johor, Melaka, Negeri Sembilan, Selangor, Perak, Penang, and Kedah are among the seven states it travels through. This expressway connects numerous important cities and towns in western Peninsular Malaysia, serving as a backbone for the region's economic development. This infrastructure