DEPARTMENT OF BUILT ENVIRONMENT STUDIES AND TECHNOLOGY,
COLLEGE OF BUILT ENVIRONMENT,
UNIVERSITI TEKNOLOGI MARA, PERAK BRANCH

THE SUSTAINABILITY AND LONG-TERM IMPACT OF ROAD MARKING PRACTICES IN PREVENTING ROAD ACCIDENTS

DISSERTATION SUBMITTED IN PARTIAL FULFILLMENT
OF THE REQUIREMENT FOR THE AWARD OF
BACHELOR OF QUANTITY SURVEYING (HONOURS)

PREPARED BY : MUHAMMAD HARITH BIN AMIR (2022659928)

SEMESTER : OCTOBER 2023 – AUGUST 2024

DECLARATION

"I declared that this dissertation is the result of my own research and that all sources are acknowledged in the references"

Student's signature :

Student's name : MUHAMMAD HARITH BIN AMIR

Date : AUGUST 2024

ABSTRACT

The road marking system is a critical traffic safety facility that controls traffic flow, provides essential information, and enhances the safety of both vehicles and pedestrians. Road markings influence driving behaviour, which in turn affects road safety. Autonomous vehicles further increase the importance of precise and durable road markings. This research aims to propose handling efforts to improve road marking in Perak. The research objectives are to investigate the sustainability of road marking, determine their impact on traffic accidents, and propose strategies to improve road marking practices. The study employs a quantitative methodology, distributing 134 set of questionnaires to respondents and analysing 116 set questionnaires returned by using SPSS Version 27. The findings indicate that the sustainability of road marking in Perak is significant, with respondents agreeing that current road markings contribute to transportation safety and efficiency. Additionally, inadequate or faded road markings are found to contribute to driver confusion and increase the risk of accidents. Proposed improvements include enhanced collaboration between road authorities and technology innovators to improve the durability and visibility of road markings. These results underscore the critical role of road markings in traffic safety and highlight the need for ongoing maintenance and technological advancements to reduce traffic accidents.

ACKNOWLEDGEMENT

In the name of Allah, the Most Gracious, the Most Merciful. Peace be upon Prophet Muhammad S.A.W.

This research study was written as a requirement of Final Project at the Faculty of Architecture, Planning, and Surveying at Universiti Teknologi MARA.

Firstly, I heartily thank my family and colleagues who have given me support and encouragement during this long journey. There are many more special people in my life which I also want to extend my thanks to each of them.

Last but not least, I want to thank me. I want to thank me for believing in me, I want to thank me for doing all this hard work, I want to thank me for having no days off, I want to thank me for never quitting, I want to thank me for always being a giver and try to give more than I receive, I want to thank me for try to do more right than wrong, I want to thank me for just being me at all times.

Thank you.

TABLE OF CONTENTS