INVESTIGATION OF EXISTING CAR PARKING STANDARD IN KANGAR TOWN

NUR ILLIANA BINTI MD LAZAM 2013992173



Thesis submitted to the Universiti Teknologi MARA Malaysia in partial fulfillment of award of the degree of the Bachelor of Surveying Science and Geomatics (Hons)

JULY 2017

AUTHOR'S DECLARATION

I declare that the work in this thesis/dissertation was carried out in accordance with the regulations of Universiti Teknologi MARA. It is original and is the results of my own work, unless otherwise indicated or acknowledged as referenced work. This thesis has not been submitted to any other academic institution or non-academic institution for any degree or qualification.

I, hereby, acknowledge that I have been supplied with the Academic Rules and Regulations for Undergraduate, Universiti Teknologi MARA, regulating the conduct of my study and research.

Name of Student : Nur Illiana Binti Md Lazam

Student I.D. No. : 2013992173

Programme : Bachelor of Surveying Science and Geomatics (Hons)

Faculty : Faculty of Architecture, Planning & Surveying

Investigation of Existing Car Parking Standard in

Thesis/Dissertation Title Kangar Town

Signature of Student :

Date : July 2017

Approved by:

I certify that I had examined this student's work and found that they were in accordance by the rules and regulations of the department and university thus fulfills the requirements for the award of the degree of Bachelor in Surveying Science and Geomatics (Hons).

Name of Supervisor's : Noorfatekah Binti Talib

Signature and Date : 418 117

ABSTRACT

Nowadays, people keep busy to own their parallel towards in developing countries. As we can see, Kangar Town also busy with people to get education and services. Indirectly, there will be a major issue in parking problems. One of the problems is the limitation of parking space which is require drivers to take a long time to find the available parking. Other than that, small parking size also one of the problem. This is because drivers will face difficulties in getting out of their car. By refer to my research questionnaire, people complaint that their car will scratch to other car when parked side by side. Since the dimension of car parking in Malaysia used the standard dimensions, all states should follow the guideline that has been stated by Jabatan Kerja Raya (JKR). Jabatan Perancangan Bandar dan Desa (JPBD) Semenanjung Malaysia also has their owned guide to be refered in this study. The purpose of this study is to investigate the existing parking size and its dimension in Kangar town. In this study, Static Global Positioning System (GPS) method is used to obtain the coordinate of the parking lot. It is used as a control method. Total station also used to collect the data. Meanwhile, for processing data, AutoCAD software is used to show the different size of both designs to analyze patterns and dimension of existing parking in Kangar town. In a nut shell, the final result is obtained by comparing the existing map car parking layout with the proposed car parking layout. The result shows that the existing parking in Kangar are not hundred percent (100%) followed by the guidelines for all types of parking lot. Therefore, the government, private agencies or responsible parties need to solve the problem about car parking. Even this is not a big problem but causing dissatisfaction or comfort to the users.

TABLE OF CONTENTS

CHAPTER			PAGE				
	CONFIRMATION BY PANEL OF EXAMINERS						
	AUTHOR'S DECLARATION						
	ABS	iv					
	ABS'	v					
	ACK	vi					
	TABLE OF CONTENTS LIST OF TABLES LIST OF FIGURES LIST OF SYMBOLS						
	LIST OF ABBREVIATIONS / NOMENCLATURE						
ONE	INT	INTRODUCTION					
	1.1	Resear	1				
	1.2	3					
	1.3	Proble	6				
	1.4	Aim &	7				
	1.5	Resear	7				
	1.6	8					
	1.7	Signifi	9				
	1.8	Structu	10				
		1.8.1	Chapter 1	10			
		1.8.2	Chapter 2	10			
		1.8.3	Chapter 3	11			
		1.8.4	Chapter 4	11			
		1.8.5	Chapter 5	11			
	1.9	Summ	11				

			3.3.3.4	AutoCAD	31	
		3.3.4	DataCollec	tion	38	
			3.3.4.1	Questionnaire	40	
			3.3.4.2	Traverse	42	
			3.3.4.3	Sub-traverse	44	
			3.3.4.4	Guideline	46	
		3.3.5	Data Processing			
			3.3.5.1	Reconnaisance and Planning	48	
			3.3.5.2	Differential Field Test (DFT)	49	
			3.3.5.3	Travers	50	
			3.3.5.4	Sub-travers	50	
			3.3.5.5	Topographic Survey	52	
			3.3.5.6	GPS Processing	53	
			3.3.5.7	CDS Processing	56	
			3.3.5.8	Design Car Park using AutoCAD		
				Software	59	
			3.3.5.9	AutoCAD Processing	59	
			3.3.5.10	Mapping	62	
	3.4	Summar	у		63	
FOUR	RESULTS AND ANALYSIS					
FOUR	4.2	Results			64 65	
	4.2	4.2.1	Overtionne	aire about the area of traffic congestion	03	
		4.2.1			65	
		4.2.2		ar parking lot	66	
		4.2.3	Result of T	ire about Problems Faced by Citizen	67	
		4.2.4		ub-traverse	68	
		4.2.4		f Car Parking Sizes	69	
		4.2.6	•	f the Distribution of Existing Car Parking	71	
		4.2.7		f the Distribution of Car Parking	/ 1	
		7.2.7	based on G		72	
	4.3	Summar		and of the control of	73	
	T.J	Summa	J		13	