

TABLE OF CONTENTS

	Page
List of Table	iii
List of Figure	iv
1 Introduction	1-1
1.1 Introduction	1-1
1.2 Objectives	1-1
1.3 Scope of the Study	1-2
1.4 Programs and Projects included in the Master Plan	1-2
2 Study Area	2-1
2.1 Location and Boundary	2-1
2.2 Geography and Climate	2-2
2.3 Administrative Management and Demography	2-2
2.4 Social Characteristics	2-3
2.5 Basic Infrastructures	2-4
2.6 Economy	2-4
2.7 Tourist Attractions	2-4
3 Recent Traffic and Transportation System	3-1
3.1 Road Transportation System	3-1
3.2 Rail Transport	3-3
3.3 Water Travel	3-3
3.4 Air Travel	3-3
3.5 Public Transport	3-4
4 Land Use and Concept of City Development	4-1
4.1 Roles and the Importance of Phitsanulok Province	4-1
4.2 Physical Landscape of Phitsanulok Province and Community's Expansion	4-1
4.3 Land Use	4-3
4.4 Expansion Trend and the Traffic Conflicts towards the Land Use	4-4

TABLE OF CONTENTS (Cont.)

		Page
5	Existing Traffic and Transportation in Studied Areas	5-1
	5.1 Mid-block Count	5-1
	5.2 Average speed of traveling	5-1
	5.3 Traffic Volume, Traffic Delay, and Traffic Signal at Intersections	5-2
	5.4 Traffic Accidents	5-2
	5.5 Volume of Registered Vehicle	5-3
 6	 Traffic and Transportation Related Problems	 6-1
	6.1 Traffic Congestion	6-1
	6.2 Safety of Street Users	6-3
	6.3 Problems towards Public Transportation Management	6-4
	6.4 Problems towards Product Delivery Networks	6-4
	6.5 Problems towards Tourism Supporting Transportation System	6-4
	6.6 Problems towards the Amazing City Campaign	6-4
	6.7 Problems towards Ineffective Strategic Planning towards the Expansion of the City	6-4
 7	 The Analysis of Traffic and Transport Projects	 7-1
	7.1 Characteristics and Commuting Behavior in Phitsanulok Master Plan	7-2
	7.2 Development of Traffic and Transport Model	7-3
	7.3 Present (2005) and Future Traffic Conditions	7-5
 8	 Visions and Strategic Planning towards Phitsanulok Master Plan	 8-1
	8.1 Visions and Strategic Planning towards Phitsanulok Master Plan	8-1
	8.2 The Development Strategies for Permanent Stay of Phitsanulok Province	8-1
	8.3 Frameworks for Setting up Phitsanulok Master Plan	8-3
 9	 Traffic and Transport Master Plan for Phitsanulok Province	 9-1

List of Table

	Page
Table 5.1 Road Accident Statistics	5-2
Table 5.2 The number of registered vehicle from the year 2000 – 2004	5-3
Table 6.1 Blackspots and their causes	6-3
Table 9.1 Phitsanulok Traffic and Transport Master plan: Short-Term Plans, Mid-Term Plan, and Long-Term Plan	9-4
Table 9.2 Information regarding to budget for each project	9-5

List of Figure

	Page
Figure 1.1 Location of Phitsanulok	1-3
Figure 1.2 Phitsanulok Master Plan	1-4
Figure 2.1 Phitsanulok neighboring provinces	2-1
Figure 2.2 Tourist Attractions	2-5
Figure 2.3 Tourist Attractions Map	2-6
Figure 3.1 Street network in Phitsanulok and linkage to neighboring provinces	3-2
Figure 4.1 Major routes in Phitsanulok	4-2
Figure 4.2 The future trend of the city expansion	4-4
Figure 5.1 Vehicle ratios in the city	5-1
Figure 7.1 Steps for the Studies	7-1
Figure 7.2 11 districts division of Phitsanulok Master Plan Areas	7-4
Figure 7.3 The Desire Line Graph indicating commuting quantities of the district during morning rush hour (7.00 – 8.00 am.) (Vehicle PCU).	7-5
Figure 7.4 Present Traffic Module	7-6
Figure 7.5 Future Traffic Module	7-6
Figure 7.6 Flow Map illustrated present traffic densities (2007) within Phitsanulok Master Plan Areas.	7-7
Figure 8.1 Master Plan Frameworks	8-3
Figure 8.2 Relationships between Causal and Structure Determinants	8-4
Figure 9.1 Phitsanulok’ traffic and transport management plan	9-7