

TABLE OF CONTENTS

Chapter/Section	Page
1.0 Executive Summary	1-1
2.0 Introduction	
2.1 Study Purpose	2-1
2.2 Demand for and Potential Use of Trail	2-1
2.2.1 Project Service Area	2-1
2.2.2 Community Character	2-1
2.2.3 Population Information and Demographic Patterns.....	2-5
2.2.4 Profile of Potential Trail Users	2-7
3.0 Background Information	
3.1 Description of Study Area	3-1
3.2 Regional History	3-1
4.0 Existing Conditions	
4.1 Current Trail System.....	4-1
4.2 Existing Land Use.....	4-2
4.3 Topography	4-2
4.4 Natural Features	4-2
4.5 Wildlife Habitat	4-3
4.6 Key Destinations	4-3
4.7 Property Ownership	4-3
4.8 Environmental Contamination	4-3
5.0 Trail Planning Process	
5.1 Trail Planning Consultants.....	5-1
5.2 Geographic Information System (GIS) Database	5-1
5.3 Public Participation	
5.3.1 Public Meetings	5-1
5.3.2 Trail Steering Committee Meetings.....	5-1
5.3.3 Key Person Interviews	5-2
5.3.4 Public Survey	5-4
5.4 Development of the Trail Master Plan	
5.4.1 Project Goals and Methodology.....	5-7
5.4.2 Identification of Key Destinations & Trail Connections	5-7
5.4.3 Identification of Potential Trail Corridors	5-7
5.4.4 Identification of Proposed Trail Route with Alternatives.....	5-7
5.4.5 Identification of Property Owners	5-7
5.4.6 Physical Inventory and Assessment	5-8
5.4.7 Selection of Preferred Trail Route	5-8
5.4.8 Prepare a Trail Concept Plan	5-8
5.4.9 Final Design and Report	5-8

6.0	Proposed Trail / Greenway System	
6.1	Proposed Trail / Greenway Overview	6-1
6.2	Kingston Area Trail	6-4
6.3	Back Mountain Trail Extension.....	6-26
6.4	Larksville Connector Trail.....	6-42
6.5	Market Street Connector Trail.....	6-47
6.6	Hopkins Memorial Park Connector Trail.....	6-51
6.7	Schuyler Ave Playground Connector Trail	6-55
6.8	Roosevelt Park Connector Trail	6-57
6.9	Forty Fort Connector Trail.....	6-60
6.10	O’Hara Park Connector Trail.....	6-63
6.11	Seminary Place Connector Trail	6-65
6.12	Luzerne County Park Connector Trail	6-67
6.13	West Side Vo-Tech Connector Trail.....	6-71
7.0	Design Standards	
7.1	Trails	7-1
7.1.1	Surfaces.....	7-1
7.1.2	Standard Trail.....	7-2
7.1.3	Rails with Trails.....	7-3
7.1.4	Sidewalks	7-5
7.1.5	Bike Lanes	7-5
7.2	Trail Intersections	7-6
7.2.1	Crosswalks	7-6
7.2.2	STOP Signs / Traffic Lights	7-7
7.2.3	Flashing Signals (Cross Alert).....	7-7
7.2.4	Refuge Islands.....	7-8
7.2.5	Rail Crossings	7-8
7.3	Auxiliary Structures	7-9
7.3.1	Barriers and Emergency Access	7-9
7.3.2	Pedestrian Lighting	7-9
7.3.3	Bridges	7-10
7.3.4	Underpasses	7-10
7.4	Trail Signage.....	7-11
7.5	Accessibility.....	7-12
8.0	Trail Operation, Maintenance and Security Plan	
8.1	Ownership/Maintenance/Management Options.....	8-1
8.2	Trail Maintenance	8-3
8.3	Trail Security	8-5
8.4	Proposed Roles of Public and Non-Public Agencies	8-5
8.5	Areas for In-Kind Contributions from Involved Entities.....	8-6
9.0	Financial Feasibility Analysis	
9.1	Cost estimate for any required land acquisition or purchase of easements.....	9-1
9.2	Cost estimates for developing the trail and for proposed facilities	9-5
9.3	Phased implementation plan	9-20
9.4	Trail Management, Staffing and Maintenance Budgeting	9-21

9.5 Potential sources for capital and operating revenues 9-23

10.0 References 10-1

Appendices

Meeting Minutes A
 Key Person Interviews B
 Public Surveys C

List of Tables & Figures

Fig. 2-1 Regional Key Map 2-2
 Fig. 2-2 USGS Map of Study Area 2-3

Fig. 3-1 2005 Aerial Photography of the Study Area 3-3
 Fig. 3-2 Historic 1894 USGS Map of Study Area 3-4

Fig. 4-1 Existing Trail and Conditions Map 4-4

Fig. 6-1 Proposed Trail System 6-2
 Fig. 6-2 Proposed Trail System – Aerial Photo..... 6-3
 Fig. 6-3 Kingston Area Trail – Section I..... 6-4
 Fig. 6-4 Kingston Area Trail – Section II..... 6-7
 Fig. 6-5 Kingston Area Trail – Section III 6-9
 Fig. 6-6 Kingston Area Trail – Section IV-A..... 6-14
 Fig. 6-7 Kingston Area Trail – Section IV-B 6-14
 Fig. 6-8 Kingston Area Trail – Section IV-C 6-14
 Fig. 6-9 Kingston Area Trail – Section V 6-23
 Fig. 6-10 Back Mt. Trail Extension – Luzerne to Kingston Trail 6-26
 Fig. 6-11 Back Mt. Trail Extension –Kingston Trail to Rutter Ave..... 6-26
 Fig. 6-12 Back Mt. Trail Extension – Rutter Ave to Levee Trail..... 6-26
 Fig. 6-13 Larksville Connector Trail..... 6-42
 Fig. 6-14 Market Street Connector Trail 6-47
 Fig. 6-15 Hopkins Memorial Park Connector Trail 6-51
 Fig. 6-16 Roosevelt Park Connector Trail..... 6-57
 Fig. 6-17 Forty Fort Connector Trail..... 6-60
 Fig. 6-18 Luzerne County Park Connector Trail..... 6-67
 Fig. 6-19 West Side Vo-Tech Connector Trail..... 6-71

Fig. 7-1 Typical Trail Detail 7-2
 Fig. 7-2 Minimum Recommended Rail with Trail Setbacks 7-4
 Fig. 7-3 Vegetation for a Buffer Between Trail and Active Rail Line..... 7-4
 Fig. 7-4 Minimum Recommended Setbacks Along a Fill Section. 7-4
 Fig. 7-5 Bicycle Lane Marking on a 2-way Street. 7-5
 Fig. 7-6 Signing and Markings for Trail / Roadway Crossing. 7-6

Table 5-1 Greater Kingston Area Trail / Greenway Steering Committee..... 5-2
 Table 5-2 Public Survey Results – Trail Amenities 5-5
 Table 5-3 Public Survey Results – Potential Connections 5-6
 Table 5-4 Public Survey Results – Potential Trail Head Locations 5-6

Table 8-1 Typical Trail Maintenance Tasks..... 8-4
Table 8-2 Common Maintenance Tasks for Volunteers 8-6

List of Tables & Figures (*continued*)

Table 9-1 Trail Easements required for proposed trail system 9-2
Table 9-2 Cost estimates for developing the Kingston Area Trail..... 9-5
Table 9-3 Cost estimates for developing the Back Mountain Extension Trail 9-9
Table 9-4 Cost estimates for developing the Larksville Connector Trail 9-12
Table 9-5 Cost estimates for developing the Market Street Connector Trail 9-13
Table 9-6 Cost estimates for developing the Hopkins Mem Pk Connector Trail 9-14
Table 9-7 Cost estimates for developing the Schuyler Ave Connector Trail 9-15
Table 9-8 Cost estimates for developing the Roosevelt Park Connector Trail 9-15
Table 9-9 Cost estimates for developing the Forty Fort Connector Trail 9-16
Table 9-10 Cost estimates for developing the O’Hara Park Connector Trail 9-17
Table 9-11 Cost estimates for developing the Seminary Place Connector Trail 9-17
Table 9-12 Cost estimates for developing the Luzerne Co Park Connector Trail 9-18
Table 9-13 Cost estimates for developing the West Side Vo-Tech Trail 9-19
Table 9-14 Sample budget for staffing and maintenance 9-21