



Bikeways & Trails Facilities Plan

Albuquerque, NM

2014

PART I: BACKGROUND & POLICIES

CHAPTER 1: INTRODUCTION	1
A. PLANNING PURPOSE	1
<i>Albuquerque's Ranked Plans</i>	<i>1</i>
B. BACKGROUND AND HISTORY OF SYSTEM	2
1. <i>Previous Bikeway & Trail Planning in Albuquerque</i>	<i>2</i>
2. <i>Early Accomplishments</i>	<i>3</i>
3. <i>Recent Accomplishments</i>	<i>3</i>
C. BIKEWAYS AND TRAILS BENEFITS	5
1. <i>Economic Benefits</i>	<i>5</i>
2. <i>Traffic Safety</i>	<i>6</i>
3. <i>Social Equity in Mobility</i>	<i>6</i>
4. <i>Public Health Benefits</i>	<i>6</i>
5. <i>Environmental Benefits/Natural and Cultural Resource Protection</i>	<i>7</i>
6. <i>Quality of Life Benefits</i>	<i>8</i>
D. THE PLANNING PROCESS	8
1. <i>Public Involvement Summary</i>	<i>9</i>
2. <i>Data Collection & Analysis</i>	<i>9</i>
E. USING THE PLAN	10
F. ACRONYMS	11
G. DEFINITIONS	12
CHAPTER 2: PLANNING & POLICY FRAMEWORK	15
A. BIKEWAYS & TRAILS SYSTEM VISION, GOALS, AND POLICIES	15
1. <i>Vision</i>	<i>15</i>
2. <i>Goals & Policies</i>	<i>15</i>
B. RELATIONSHIP TO OTHER PLANS	18
1. <i>Existing Bicycle and Trail Plans – City and Regional Plans</i>	<i>19</i>
2. <i>Other City Plans & Policies</i>	<i>21</i>
3. <i>Regional Plans & Policies</i>	<i>22</i>
5. <i>Federal Policies and Programs</i>	<i>23</i>
CHAPTER 3: EXISTING CONDITIONS & CURRENT ISSUES	25
A. CYCLIST & PEDESTRIAN NEEDS	25
1. <i>Types</i>	<i>25</i>
2. <i>User Needs – Current Issues</i>	<i>26</i>
B. EXISTING FACILITIES	28
1. <i>Types of Existing Facilities</i>	<i>28</i>
2. <i>Existing Facility Enhancements – Current Issues</i>	<i>34</i>
C. BIKEWAY & TRAIL SYSTEM ANALYSIS	36
1. <i>Bikeway & Trail System - Assets & Challenges</i>	<i>36</i>
2. <i>System Use</i>	<i>41</i>
3. <i>On-Street Bicycle Facility Needs Assessment</i>	<i>44</i>
4. <i>Current Studies & Programs</i>	<i>47</i>
5. <i>Bikeway & Trail System – Current Issues</i>	<i>49</i>

PART II: RECOMMENDATIONS

CHAPTER 4: RECOMMENDED NETWORK	51
A. FACILITY GAP ANALYSIS	51
1. Existing Bikeway Evaluation.....	51
2. System Gap Analysis	52
3. Gap Closure Measures.....	53
4. Steps in Addressing Bikeway & Trail System Gaps.....	58
5. Evaluation of Bikeway Connectivity – Link Connections and Gap Closures.....	60
B. PROPOSED BIKEWAY AND TRAIL FACILITIES	61
1. Full Build-Out of the Bikeways & Trails Facility Plan.....	63
2. High-Priority Projects.....	64
3. Estimated Costs	77
C. EXISTING FACILITY ENHANCEMENTS	78
1. Intersection and Crossing Improvements.....	78
2. Retrofitting Trails to Be Universally Accessible	80
3. Bollard Assessment & Remediation	80
4. Facility Upgrades.....	81
D. WAYFINDING.....	82
1. Signage and Marking	82
2. Emergency Responders	82
CHAPTER 5: RECOMMENDED PROGRAMS	83
A. CURRENT SAFETY, EDUCATION, & ENCOURAGEMENT PROGRAMS	83
1. City of Albuquerque Bicycling & Trail Programs.....	83
2. Partnerships & Programs to Encourage and Support	87
B. NEW PROGRAMS TO EXPAND OR INITIATE.....	91
CHAPTER 6: IMPLEMENTATION STRATEGIES	96
A. BIKEWAY & TRAIL FACILITY DEVELOPMENT APPROACH	96
1. Administrative Organization & Coordination.....	96
2. Bicycle & Trail Coordinator	98
3. Role & Structure of Advisory Committees.....	99
4. Policies for Bikeway & Trail Development.....	103
5. Procedures for Design Development & Review	108
B. LEGISLATIVE RECOMMENDATIONS	109
1. New Mexico State Motor Vehicle Code.....	109
2. Traffic Code, Albuquerque Code of Ordinances	110
3. Zoning Code, Albuquerque Code of Ordinances.....	111
4. Albuquerque Development Process Manual	112
C. MAINTENANCE & OPERATIONS RECOMMENDATIONS.....	113
1. Trails Maintenance Practices.....	113
2. On-Street Bicycle Facilities Maintenance Considerations.....	116
3. Citizen Maintenance Requests.....	117
4. Spot Improvement Program	117
D. MONITORING & EVALUATION	117
1. Trail and Bikeway Counts	117
2. Crash Data Collection & Analysis.....	118
3. Survey.....	119
E. FUNDING.....	119
F. SUMMARY OF IMPLEMENTATION ACTIONS	120
CHAPTER 7: DESIGN MANUAL	130

LIST OF MAPS, TABLES & FIGURES

Table 1: Existing Bikeway and Trail Facilities over Time & Proposed Facilities	4
Table 2: Albuquerque and Albuquerque Metropolitan Area Population	25
Table 3: Characteristics of Short- and Long-Term Bicycle Parking	31
Table 4: Bicycle Commute Data for Albuquerque over Time.....	43
Table 5: 2012 Bicycle Commute Mode Share	44
Table 6: Infrastructure Project Evaluation Criteria	52
Table 7: High-Priority “Current Projects”	72
Table 8: High-Priority “Critical Links Projects”	74
Table 9: Full Build-Out Cost Estimate.....	77
Table 10: Implementation Matrix	121
Figure 1: MRCOG 2035 Long Range Bikeway System Map	19
Figure 2: Trail Etiquette Signs	27
Figure 1: MRCOG 2035 Long Range Bikeway System Map	19
Figure 2: Trail Etiquette Signs	27
Figure 3: 2014 Bicycle Map	28
Figure 4: Signage Examples.....	30
Figure 5: Opportunities and Constraints.....	39
Figure 6: Educational Campaign Example.....	42
Figure 7: Diagram of Gap Types.....	53
Figure 8: Alternate Routing Issues (Source: Oregon Bicycle & Pedestrian Plan)	57
Figure 9: Bikeway & Trail Gap Closure Analysis Procedure	60
Figure 10: Existing Bikeways and Trails Map.....	64
Figure 11: Proposed & Existing Bikeways and Trails Map.....	66
Figure 12: Current Projects Map	68
Figure 13: Critical Links Map	70
Figure 14: Prototypical Multi-Lane Arterial Intersection Design	79
Appendix A – Full Report of Proposed Facilities	
Appendix B – 50 Mile Activity Loop Executive Summary	
Appendix C – Bollard Study	
Appendix D – Compilation of 2010 Bikeways Data	
Appendix D.1 – User Count Data	
Appendix D.2 – Crash Data	
Appendix D.3 – Online Survey	
Appendix D.4 – Bikeway Quality Index	
Appendix D.5 – Cycle Zone Analysis	
Appendix D.6 – Gap Closure Engineering Evaluations	
Appendix D.7 – End of Trip Facilities Analysis	
Appendix E – Compilation of Public Input 2010 and 2014	
Appendix E.1 – Interviews	
Appendix E.2 – Stakeholder Workshops	
Appendix E.3 – Public Open House Meeting Report	