

# TABLE OF CONTENTS

---

## CHAPTER 1. INTRODUCTION AND SUMMARY

<b>A. PROJECT AREA</b>	<b>3</b>
<b>B. PROJECT PURPOSE AND GOALS</b>	<b>3</b>
B1. Project Purpose	3
B2. Project Goals	3
<b>C. TERMINOLOGY</b>	<b>4</b>
<b>D. SUMMARY OF FEASIBILITY ISSUES AND ACTION ITEMS</b>	<b>5</b>

## CHAPTER 2. SETTING

<b>A. THE ANNIE &amp; MARY CORRIDOR</b>	<b>7</b>
A1. North Coast Railroad Authority	7
A2. Physical State of the Corridor	12
<b>B. NATURAL RESOURCES</b>	<b>14</b>
B1. Mad River and Tributaries	14
B2. Wildlife and Vegetation	15
<b>C. CULTURAL RESOURCES</b>	<b>16</b>
C1. Native American History	16
C2. European Settlement	17
C3. History of the A&MR Railroad	17
<b>D. COMMUNITIES</b>	<b>19</b>
D1. County of Humboldt	19
D2. City of Arcata	19
D3. City of Blue Lake	20
D4. Community of Glendale	21
D5. Community of Korbelt	21
D6. Blue Lake Rancheria	21
<b>E. LAND USE AND PUBLIC ACCESS</b>	<b>21</b>
E1. Corridor Land Uses	22
E2. Humboldt Bay Municipal Water District	22
E3. Recreation	22
E4. Other Points and Events of Interest	24

<b>F. ACTION ITEMS</b>	<b>25</b>
------------------------	-----------

## **CHAPTER 3. PLANNING FRAMEWORK**

<b>A. HISTORY OF A&amp;M RAIL-TRAIL PLANNING</b>	<b>26</b>
--	-----------

<b>B. PLANNING AND POLICY CONTEXT</b>	<b>27</b>
---------------------------------------	-----------

B1. Summary of Local General Plans and Interest	27
---	----

B2. Local Trail, Bicycle, and Transportation Plans	29
--	----

<b>C. OTHER RELEVANT JURISDICTIONS AND THEIR PLANS</b>	<b>30</b>
--	-----------

C1. North Coast Railroad Authority	30
------------------------------------	----

C2. Humboldt Bay Municipal Water District	31
---	----

C3. Blue Lake Rancheria	32
-------------------------	----

C4. California Department of Transportation (Caltrans)	33
--	----

<b>D. ACTION ITEMS</b>	<b>33</b>
------------------------	-----------

## **CHAPTER 4. COMMUNITY INVOLVEMENT**

<b>A. SCOPE OF COMMUNITY INVOLVEMENT</b>	<b>34</b>
--	-----------

<b>B. PUBLIC OUTREACH</b>	<b>34</b>
---------------------------	-----------

B1. Public Meetings	35
---------------------	----

B2. Public Survey	39
-------------------	----

<b>C. AGENCY AND ORGANIZATION OUTREACH</b>	<b>42</b>
--	-----------

<b>D. ACTION ITEMS</b>	<b>45</b>
------------------------	-----------

## **CHAPTER 5. TRAIL DESIGN**

<b>A. RECOMMENDED TRAIL STANDARDS</b>	<b>46</b>
---------------------------------------	-----------

A1. Width and Surface	47
-----------------------	----

A2. Structural Section	49
------------------------	----

A3. Design Speed	51
------------------	----

A4. Drainage	51
A5. Intersections and Crossings	52
A6. NCRA Rail-Trail Planning & Design Guidelines	52
<b>B. RECOMMENDED STRUCTURAL TREATMENTS</b>	<b>52</b>
B1. Trestle Treatments	52
B2. Bridge Treatments	54
<b>C. ACCESS CONTROL</b>	<b>56</b>
C1. Separation	56
C2. Fencing	57
C3. Bollards	58
<b>D. TRAIL SUPPORT FACILITIES</b>	<b>59</b>
D1. Utilities and Lighting	59
D2. Signing and Marking	59
D3. Trail Entry Features	61
D4. Landscaping Features	62
D5. Trail Furniture	63
<b>E. SPECIFIC DESIGN TREATMENTS</b>	<b>63</b>
E1. Specific Trailhead Recommendations	64
E2. Road Crossing Design Background	64
E3. At-Grade Crossing Features	65
E4. Typical Crossing Prototypes	66
E5. Conceptual Crossing Diagrams	68
<b>F. ACTION ITEMS</b>	<b>69</b>

## CHAPTER 6. ALIGNMENT ALTERNATIVES

<b>A. ARCATA REACH: ARCATA CITY LIMIT TO WATER DISTRICT PARK I</b>	<b>72</b>
A1. Key Characteristics	72
A2. Key Connections	74
A3. Constraints	74
A4. Alignment Alternatives	75
A5. Recommended Trail Alignment	76
A6. Recommended Trail Support Facilities	76

<b>B. PARKS REACH I: WATER DISTRICT PARK I TO WARREN CREEK ROAD</b>	<b>77</b>
B1. Key Characteristics	77
B2. Key Connections	79
B3. Constraints	79
B4. Alignment Alternatives	79
B5. Recommended Trail Alignment	82
B6. Recommended Trail Support Facilities	83
<b>C. PARKS REACH II: WARREN CREEK ROAD TO WATER DISTRICT PARK 4</b>	<b>83</b>
C1. Key Characteristics	83
C2. Key Connections	85
C3. Constraints	85
C4. Alignment Alternatives	85
C5. Recommended Trail Alignment	88
C6. Recommended Trail Support Facilities	88
<b>D. BRIDGE REACH: WATER DISTRICT PARK 4 TO GLENDALE</b>	<b>88</b>
D1. Key Characteristics	88
D2. Key Connections	91
D3. Constraints	91
D4. Alignment Alternatives	91
D5. Recommended Trail Alignment	91
D6. Recommended Trail Support Facilities	92
<b>E. GLENDALE REACH: DOWNTOWN GLENDALE TO CHARTIN ROAD</b>	<b>92</b>
E1. Key Characteristics	92
E2. Key Connections	93
E3. Constraints	93
E4. Alignment Alternatives	93
E5. Recommended Trail Alignment	98
E6. Recommended Trail Support Facilities	99
<b>F. BLUE LAKE WEST REACH: CHARTIN ROAD TO HATCHERY ROAD</b>	<b>99</b>
F1. Key Characteristics	101
F2. Key Connections	101
F3. Constraints	101
F4. Recommended Trail Alignment	101
F5. Recommended Trail Support Facilities	102

<b>G. BLUE LAKE EAST REACH: HATCHERY ROAD TO MAD RIVER LEVEE</b>	<b>102</b>
G1. Key Characteristics	104
G2. Key Connections	104
G3. Constraints	104
G4. Alignment Alternatives	105
G5. Recommended Trail Alignment	107
G6. Recommended Trail Support Facilities	107
<b>H. KORBEL REACH: MAD RIVER LEVEE KORBEL</b>	<b>108</b>
H1. Key Characteristics	108
H2. Key Connections	108
H3. Constraints	108
H4. Alignment Alternatives	110
H5. Recommended Trail Alignment	110
H6. Recommended Trail Support Facilities	110
<b>J. SUMMARY OF ALIGNMENT RECOMMENDATIONS</b>	<b>111</b>

## **CHAPTER 7. MANAGEMENT AND MAINTENANCE**

<b>A. OPERATING AN A&amp;M RAIL-TRAIL: GENERAL PRINCIPLES</b>	<b>112</b>
A1. NCRA Transfer of Responsibility to Trail Management	112
A2. Coordination of Operating Responsibilities and Procedures	112
A3. Developing Trail Use Regulations	113
A4. Working with Adjacent Property Owners	114
<b>B. TRAIL MANAGEMENT AGENCY</b>	<b>117</b>
B1. Jurisdictional Analysis	117
B2. Potential Trail Management Agencies	117
B3. Management Agency Research	118
B4. Trail Management Options	121
<b>C. MANAGEMENT AGENCY REQUIREMENTS</b>	<b>124</b>
C1. Responsibilities	124
C2. Liability and the Trail Management Entity	125
<b>D. EASEMENTS AND LICENSES</b>	<b>126</b>
D1. Easements	126
D2. Licenses	126

<b>E. TRAIL MAINTENANCE PLAN</b>	<b>128</b>
E1. Maintenance Needs	128
E2. Maintenance Trust Fund	129
E3. Reporting Mechanisms	129
<b>F. ACTION ITEMS</b>	<b>130</b>

## CHAPTER 8. COSTS AND FUNDING

<b>A. CONSTRUCTION COSTS</b>	<b>131</b>
<b>B. TRESTLE AND BRIDGE COSTS</b>	<b>132</b>
<b>C. TRAIL COSTS</b>	<b>133</b>
C1. Cost Estimates By Reach	133
C2. Support Facilities	135
<b>D. MAINTENANCE COSTS</b>	<b>136</b>
<b>E. PROJECT FUNDING</b>	<b>136</b>
E1. Environmental Enhancement and Mitigation Program	136
E2. Recreational Trails Program	137
E3. Regional Transportation Improvement Program	137
E4. TDA Article III	137
E5. Safe Routes to School (AB 1475)	137
E6. Habitat Conservation Fund	137
E7. Land and Water Conservation Fund (LWCF)	138
E8. Air Quality Management District (AB 2766)	138
E9. Historic Resource Preservation Funds	138
E10. State Public Access Program	139
E11. Bicycle Transportation Account	139
E12. State Coastal Conservancy	139
E13. TEA-21	140
E14. Humboldt Area Foundation	140
E15. California Clean Water, Clean Air, Safe Neighborhood Parks, and Coastal Protection Act of 2002	140
E16. Community-Based Transportation Planning & Environmental Justice Grant Programs	
E17. Grassroots Fundraising	141

---

**F. MATCHING CONTRIBUTIONS** **141**

---

**G. ACTION ITEMS** **141**

---

**CHAPTER 9. CONCLUSION****A. IMPLEMENTATION STRATEGY** **143**

---

A1. Seeking Funds 143

A2. Railbanking 144

A3. Establishment of Management Structure 144

A4. CEQA 144

A5. Priority Reaches 146

**B. CONCLUSION** **146**

---