

# **Southeast Michigan Greenways**

## **Strategic Plans**

Strategic Implementation Plans for:

The Clinton River Trail,  
The Macomb Orchard Trail, and  
The Stony Creek Metropark / Clinton River Park Link.

May 27, 2001



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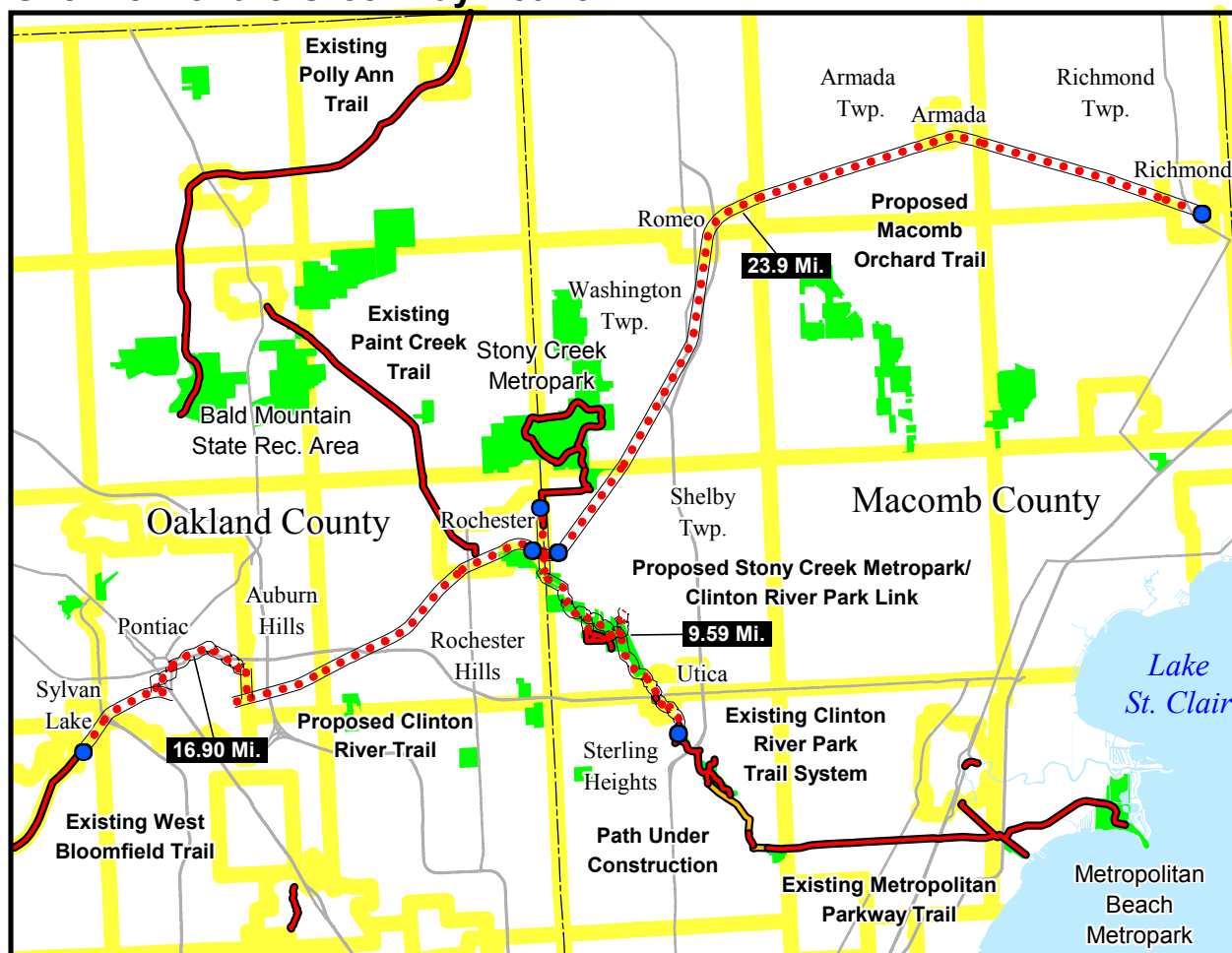
**Funding for this project was provided by a grant from Department of Natural Resources.**










## Table of Contents:

Introduction.....	1
1. Clinton River Trail.....	3
2. Macomb Orchard Trail.....	17
3. Stony Creek Metropark / Clinton River Park Link.....	35
Appendix A – Scope and Cost Notes.....	37
Appendix B – Primary Contacts.....	39
Appendix C – Potential Funding Sources.....	45
Appendix D – Other Potential Partners.....	46

## Overview of the Greenway Network

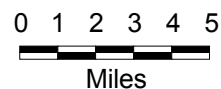


### Legend

-  Existing Shared Use Path
-  Potential Shared Use Path
-  Segment Boundary
-  Segment Length
-  Highways
-  Community Boundaries
-  Major Parklands



NORTH



## Introduction

This is the second of a series of reports to be produced under a contract between Michigan Department of Natural Resources and Rails-to-Trails Conservancy Michigan Chapter for greenway specialist work targeting priority projects in Southeast Michigan. The first report, *Southeast Michigan Greenways Scoping Report*, identified and evaluated potential projects, selecting the three projects discussed in this report. This report is a feasibility study of the selected corridors identifying key bits of information that will assist in the project's eventual implementation. Specifically the purpose of this report is to:

- Identify the project scope
- Determine the probable project costs
- Identify potential funding sources
- Identify key stakeholders
- Define proposed implementation teams
- Outline potential partnerships
- Outline proposed implementation steps

Later reports will document the progress on the tasks set forth in this document.

## Report Format

The report is divided into three sections, one for each of the projects:

- The Clinton River Trail,
- Macomb Orchard Trail, and
- Stony Creek Metropark / Clinton River Park Link

While the projects may be viewed as one “mega project” the circumstances are different enough to warrant individual discussion. Each project has a unique identity and group of players and the likely courses for their implementation are quite different. Of course, there are numerous common implementation steps identified for each project. In addition, the three projects will benefit from being a part of a “mega project” and should coordinate their implementation efforts.

In addition to a general discussion of each project, the report segments the Clinton River Trail and Macomb Orchard Greenway projects by political jurisdiction with issues, an implementation checklist and costs summarized. Supplementing these sections are four Appendices with contact information on the key players, supplemental information on the costs, and potential project funding sources.

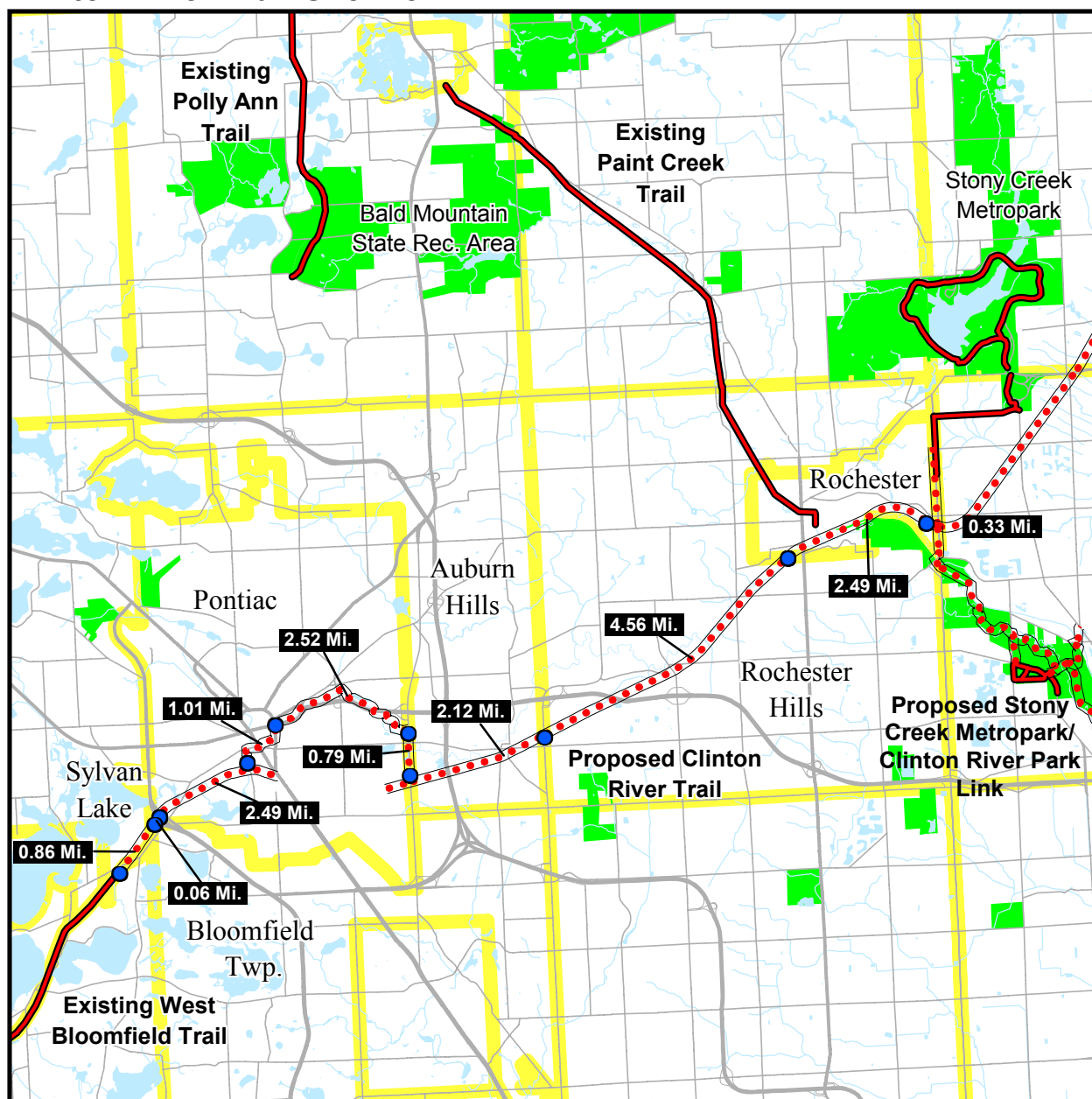
## Regional Significance

The three projects selected for assistance have the potential to be connected not only to each other but to four of the regions longest greenways creating an impressive “X” shaped greenway system that will provide 110 miles of shared-use pathways and regional interconnected green space to one of the fastest growing areas in the state.

The three projects together are truly a multi-jurisdictional effort. They span two counties; connect 29 communities and 7 Major parklands together. The proposed greenway system will transverse a wide variety of land uses from urban downtown Pontiac to rural northern Macomb County. The mega-project will establish a regional greenway hub within 15 miles of the population center of the region. It will also provide an important recreational amenity to Pontiac and link that city with numerous regional recreation amenities.

The proposed greenway system, when completed, will have sufficient critical mass to become a major statewide tourist draw and illustrate the benefits of an urban/suburban/rural interconnected greenway system, spurring additional greenway development in the region and state.

## Clinton River Trail Overview

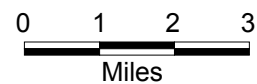


### Legend

- Existing Shared Use Path
- ... Potential Shared Use Path
- Segment Boundary
- 5.67 Mi. Segment Length
- Highways
- Community Boundaries
- Major Parklands



NORTH



## 1. Clinton River Trail

The Clinton River Trail's core is a 12.6-mile abandoned rail corridor that roughly parallels the Clinton River. Discussions on trail routing have also included a 4.3-mile route through central Pontiac and along the Clinton River to circumnavigate a gap in corridor ownership. There is also a potential 4.3-mile northern spur on another abandoned rail corridor.

### Key Stakeholders

The primary stakeholders in the project are defined by organizations or agencies that may have some level of responsibility in the ownership and/or management of the proposed project. The following are key bodies of authority for each stakeholder:

1. Oakland County Office of the Executive and Board of Commissioners
2. Oakland County Parks and Recreation Commission
3. The City of Sylvan Lake Mayor and Council
4. The City of Pontiac Mayor and City Council
5. The City of Auburn Hills Mayor and City Council
6. The City of Rochester Hills Mayor and City Council
7. The City of Rochester Mayor and City Council
8. Oakland County Road Commission
9. Huron-Clinton Metropolitan Authority
10. Friends of the Clinton River Trail
11. Clinton River Watershed Council

Contact information for each organization is listed in the Appendix B

### Proposed Implementation and Advocacy Steps

An implementation checklist is included with each segment description. The greenway specialist team will focus on the following steps:

1. Property acquisition strategy and funding as necessary (the extent of work on this step is dependent on a number of outstanding grants).
2. For the Cities of Sylvan Lake, Pontiac, Auburn Hills, Rochester Hills, Rochester, and Oakland County:
  - A) Meet with community leadership to answer questions regarding the proposed project, gather their input on trail issues.
  - B) Review community Master Plans to assure the proposed use is in compliance, work with the communities to make revisions as necessary and formally adopt any modifications.
  - C) Review community Zoning Plans to assure the proposed trail and greenway uses are in compliance, work with the communities to make revisions as necessary, and formally adopt any modifications.
  - D) Review community Recreation Plans to see if the proposed trail is listed and its current priority ranking, work with the communities to make revisions as necessary, formally adopt any modifications, and file any modifications with the State.
  - E) Assist the communities in drafting resolutions of support and passing those resolutions of support.
3. Develop and review preliminary road crossing plans with the County Road Commission and MDOT as appropriate.
4. Outline the issues and any further work that needs to be completed regarding retrofitting or replacing the bridges.
5. Identify and outline the issues and any further work that needs to be completed regarding potential solutions for other special circumstances along the trail such as wash-outs, steep side slopes, conflicting adjacent uses. Specific solutions may be proposed as time allows.
6. Recommend that communities test the ballast for arsenic and the paint on steel portions of the bridge for lead, as these two factors will significantly alter the nature and cost of the improvements.

7. Work with the communities to establish a coordinating body for the planning, implementation, and management of the proposed trail system. Look at expanding the existing Paint Creek Trailway Commission to include this project, establishing a new Trailway Commission, or coordinating with the County Parks and Recreation Commission.
8. Assist the communities in the preparation of various grant applications for acquisition, pre-construction, and construction funds.
9. Assist the communities in locating, programming and costing of staging areas.
10. Prepare small-scale maps for use in brochures and prepare large-format maps for display and use in presentations.
11. Prepare a PowerPoint Illustration for use in presentations and make presentations to key potential funders.
12. Contact potential user groups and potentially interested businesses (due to business type or proximity) to inform them of the project, build the advocacy base, and potentially gain project funding. See Appendix D – Other Potential Partners for an initial list of groups and businesses.

#### Scope and Cost Summary for the Clinton River Trail:

Item	Qty.	Unit	Range/Allowance		Item Range	
1 Shared Use Path - RR Corridor	66,409	LF	\$13 -	\$21	\$863,317 -	\$1,394,589
2 On Road System - Pontiac	5,341	LF	\$2	\$40	\$10,682	\$213,640
3 Shared Use Path - Pontiac	17,440	LF	\$18 -	\$26	\$313,920 -	\$453,440
4 Type A Intersections	9	EA	\$5,000 -	\$7,000	\$45,000 -	\$63,000
5 Type B Intersections	3	EA	\$7,000 -	\$10,000	\$21,000 -	\$30,000
6 Type C Intersections	12	EA	\$10,000 -	\$20,000	\$120,000 -	\$240,000
7 Open-deck Bridge Retrofit	140	LF	\$110 -	\$150	\$15,400 -	\$21,000
8 New Bridge	120	LF	\$1,300 -	\$1,600	\$156,000 -	\$192,000
9 Underpass Allowance	2	EA	\$5,000 -	\$15,000	\$10,000 -	\$30,000
10 Staging Areas Allowance	3	EA	\$100,000 -	\$250,000	\$300,000 -	\$750,000
11 Special Erosion Repair	1	LS	\$20,000 -	\$80,000	\$20,000 -	\$80,000
12 Potential Signal or Overpass	3	EA	\$25,000 -	\$750,000	\$75,000 -	\$2,250,000
13 Miscellaneous Improvements	89,190	LF	\$2 -	\$4	\$178,380 -	\$356,760
<b>Potential Construction Costs</b>					<b>\$2,128,699 -</b>	<b>\$6,074,429</b>
14 Initial Improvements	2.0% of Construction Cost				\$42,574 -	\$121,489
15 Master Plan	1.5% of Construction Cost				\$31,930 -	\$91,116
16 Construction Doc's/Admin.	7.5% of Construction Cost				\$159,652 -	\$455,582
17 Yearly Management	16.89	MI	\$3,150 -	\$4,500	\$53,210 -	\$76,014

See Appendix A – Scope and Cost Notes for further description of what each item entails.

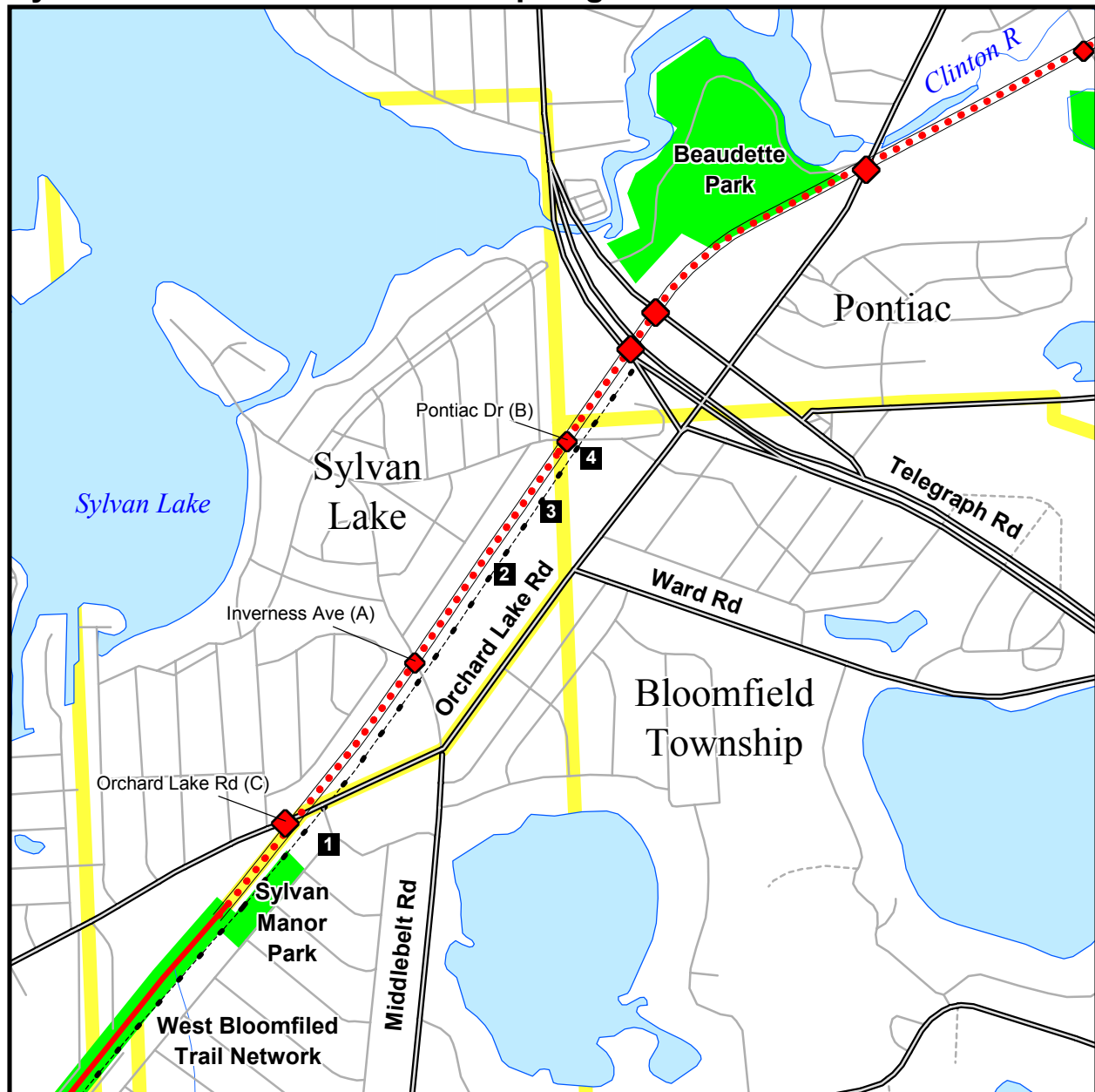


**Clinton River Trail Segment Detail**

The following pages analyze the Clinton River Trail by political jurisdiction with a summary of the issues, an implementation checklist, and a cost summary. There is a page for each of the following jurisdictions the proposed path passes through going east to west:

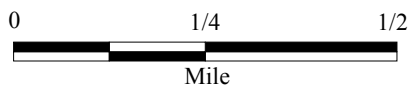
- The City of Sylvan Lake and Bloomfield Township
- The City of Pontiac
- The City of Auburn Hills
- The City of Rochester Hills
- The City of Rochester

## Sylvan Lake/Bloomfield Township Segment



### Legend

- |            |                               |  |                             |
|------------|-------------------------------|--|-----------------------------|
|            | Existing Shared Use Path      |  | Primary Roads               |
|            | Potential Shared Use Path     |  | Secondary/Residential Roads |
| XYZ Rd (B) | Road Intersection & Type Note |  | Powerline                   |
|            | Creek                         |  | Pipeline                    |
| XYZ Hwy    | Underpass and Feature Name    |  | Community Boundaries        |
|            | Bridge and Feature Name       |  | Public Green Space          |
|            | NORTH                         |  | Other Public Lands          |



**Sylvan Lake/Bloomfield Township Segment**

This 0.9-mile segment includes 3 road crossings and links up with the popular West Bloomfield Trail. The majority of the proposed path is within the City of Sylvan Lake with only about 300 feet of the corridor within Bloomfield Township.

**Preliminary Issues to Address:**

Issue	Action Required
1 Complex Orchard Lake Intersection	Look at alternatives to existing alignment including signalization, path rerouting, and grade separation
2 A power line on south side of corridor	Determine if there is any ROW overlap.
3 Link to Pontiac	Work with the community to explore options for linkages to the path in Pontiac including potential rerouting.
4 Bloomfield Township	Work with Bloomfield Township to address any issues they may have on design and management.

**Implementation Checklist:**

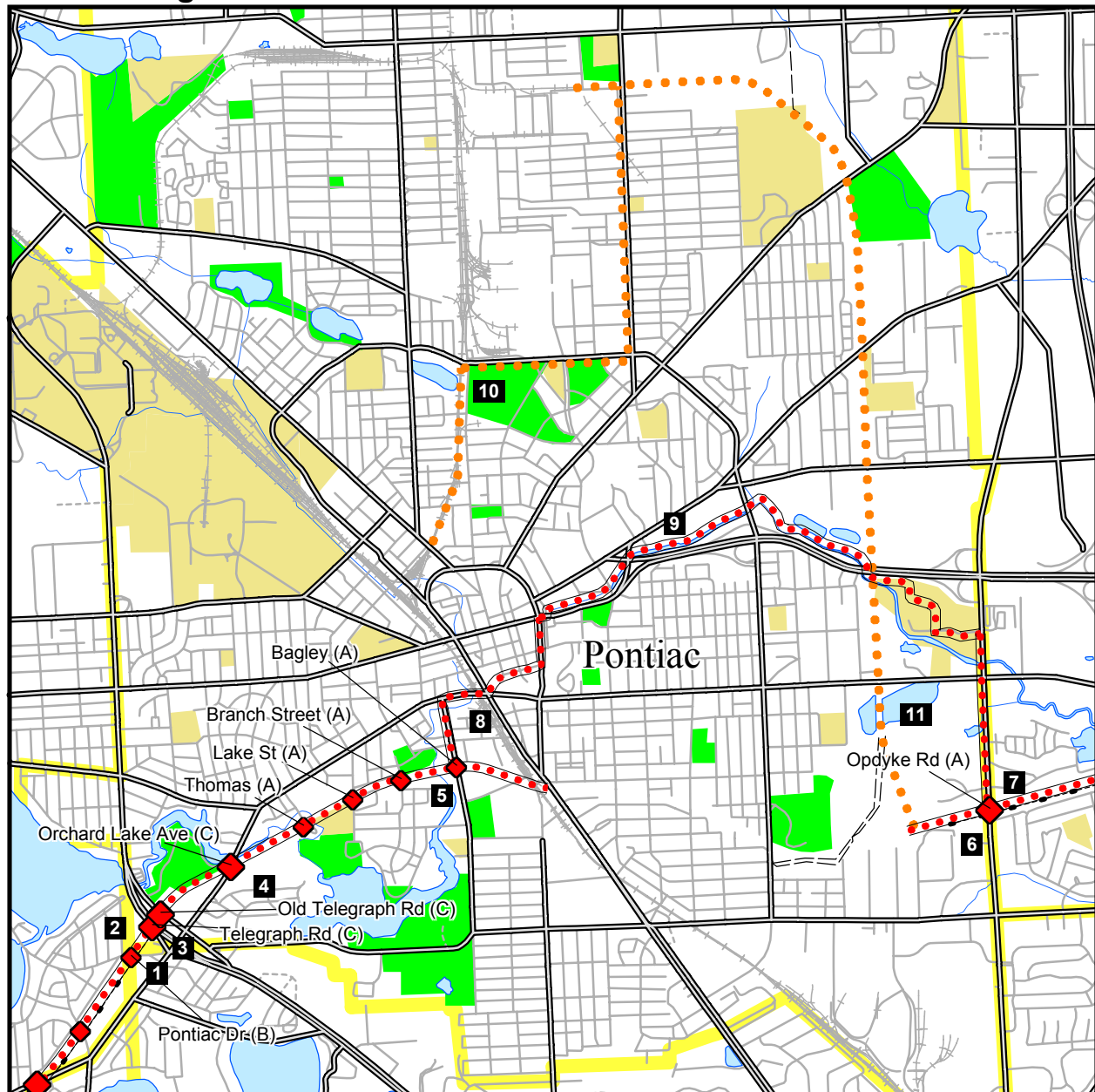
Item	Status/Proposed Action
1 Phase I Environmental Assessment	Complete – Further phases not warranted
2 Recreation Plan Compliance	Updated for MDNR Trust Fund Application
3 Master and Zoning Plan Compliance	Unknown
4 Secure Acquisition Funding	\$225,000 Trust Fund Application submitted April 2001
5 Acquire Corridor	Utilize a conservancy to expedite the process
6 Determine Management Approach	Work with the County and/or Trailways Mgmt. Council
7 Secure funding for steps 8, 9, and 10	Develop regional implementation strategy
8 Make Initial Improvements	Includes insurance and basic safety improvements
9 Master Plan/Public Input Process	Work with the County and/or Trailways Mgmt. Council
10 Develop Construction Documents	Work with the County and/or Trailways Mgmt. Council
11 Develop management plan	Work with the County and/or Trailways Mgmt. Council
12 Secure construction funding	Develop regional implementation strategy
13 Solicit bids and select Contractor	Participate in multi-jurisdictional bid package
14 Construct the trail and support facilities	Work with the County and/or Trailways Mgmt. Council
15 Implement management plan	Work with the County and/or Trailways Mgmt. Council

**Scope and Cost Summary:**

Item	Qty.	Unit	Range/Allowance		Item Range	
1 Shared Use Path - Sylvan Lake	4,537	LF	\$13 -	\$21	\$58,981 -	\$95,277
2 Shared Use Path - Bloomfield Twp.	316	LF	\$13 -	\$21	\$4,108 -	\$6,636
3 Type A Intersections	1	EA	\$5,000 -	\$7,000	\$5,000 -	\$7,000
4 Type B Intersections	1	EA	\$7,000 -	\$10,000	\$7,000 -	\$10,000
5 Type C Intersections	1	EA	\$10,000 -	\$20,000	\$10,000 -	\$20,000
6 Potential Signal or Overpass	1	EA	\$25,000 -	\$750,000	\$25,000	\$750,000
7 Miscellaneous Improvements	4,853	LF	\$2 -	\$4	\$9,706 -	\$19,412
<b>Potential Construction Costs</b>					<b>\$119,795 -</b>	<b>\$908,325</b>
8 Initial Improvements	2.0% of Construction Cost				\$2,396 -	\$18,167
9 Master Plan	1.5% of Construction Cost				\$1,797 -	\$13,625
10 Construction Documents/Admin.	7.5% of Construction Cost				\$8,985 -	\$68,124
11 Yearly Management	0.92	MI	\$3,150 -	\$4,500	\$2,895 -	\$4,136

See Appendix A – Scope and Cost Notes for further description of what each item entails.

## Pontiac Segment



### Legend

- |            |                               |  |                             |
|------------|-------------------------------|--|-----------------------------|
|            | Existing Shared Use Path      |  | Primary Roads               |
|            | Potential Shared Use Path     |  | Secondary/Residential Roads |
| XYZ Rd (B) | Road Intersection & Type Note |  | Powerline                   |
| Creek      | Bridge and Feature Name       |  | Pipeline                    |
| XYZ Hwy    | Underpass and Feature Name    |  | Community Boundaries        |
|            |                               |  | Public Green Space          |
|            |                               |  | Other Public Lands          |
- 0 0.5 1  
Miles
- NORTH

**Pontiac Segment**

This 6.8-mile segment includes a 4.3 mile northern on and off-road loop that goes through the downtown area. The loop is being proposed as a part of the downtown plan currently under development. The 2.5-mile, east-west segment on abandoned rail corridor is discontinued, having a 1.7-mile gap in ownership.

**Preliminary Issues to Address:**

Issue	Action Required
1 Unsightly industrial area	Look at options for improvement or alternate routes
2 Old and New Telegraph Crossings	Look at alternatives to existing alignment including signalization, path rerouting, and grade separation
3 Billboard in ROW	Determine ownership and lease arrangements
4 Orchard Lake Crossing	Study options for a safe crossing
5 House close to potential path	Look at property descriptions
6 Billboard in ROW	Determine ownership and lease arrangements
7 Opdyke Rd Crossing	Look at realigning path with existing signal
8 On-road routes	Look at bicycle and pedestrian suitability of route
9 Private Ownership	Analyze public-ownership gaps along river
10 Potential rail-trail and sidepath spur	Work with community groups to determine trail potential
11 Northern spur abandonment and sale	Consider for purchase and as an alt to Opdyke Rd.

**Implementation Checklist:**

Item	Status/Proposed Action
1 Phase I Environmental Assessment	Complete – Further phases not warranted
2 Recreation Plan Compliance	Updated for MDNR Trust Fund Application
3 Master and Zoning Plan Compliance	Unknown
4 Secure Acquisition Funding	\$644,000 T-21 & Trust Fund Applications pending
5 Acquire Corridor	Utilize a conservancy to expedite the process
6 Determine Management Approach	Work with the County and/or Trailways Mgmt. Council
7 Secure funding for steps 8, 9, and 10	Develop regional implementation strategy
8 Make Initial Improvements	Includes insurance and basic safety improvements
9 Master Plan/Public Input Process	Work with the County and/or Trailways Mgmt. Council
10 Develop Construction Documents	Work with the County and/or Trailways Mgmt. Council
11 Develop management plan	Work with the County and/or Trailways Mgmt. Council
12 Secure construction funding	Develop regional implementation strategy
13 Solicit bids and select Contractor	Participate in multi-jurisdictional bid package
14 Construct the trail and support facilities	Work with the County and/or Trailways Mgmt. Council
15 Implement management plan	Work with the County and/or Trailways Mgmt. Council

**Scope and Cost Summary:**

Item	Qty.	Unit	Range/Allowance	Item Range
1 Shared Use Path - RR Corridor	13,170	LF	\$13 - \$21	\$171,210 - \$276,570
2 On Road System - Downtown	5,341	LF	\$2 - \$40	\$10,682 - \$213,640
3 Shared Use Path - River & Opdyke	17,440	LF	\$18 - \$26	\$313,920 - \$453,440
4 Type A Intersections	4.5	EA	\$5,000 - \$7,000	\$22,500 - \$31,500
5 Type C Intersections	3	EA	\$10,000 - \$20,000	\$30,000 - \$60,000
6 Potential Signal or Overpass	2	EA	\$25,000 - \$750,000	\$50,000 - \$1,500,000
7 Miscellaneous Improvements	35,951	LF	\$2 - \$4	\$71,902 - \$143,804
<b>Potential Construction Costs</b>				<b>\$670,214 - \$2,678,954</b>
8 Initial Improvements	2.0% of Construction Cost			\$13,404 - \$53,579
9 Master Plan	1.5% of Construction Cost			\$10,053 - \$40,184
10 Construction Documents/Admin.	7.5% of Construction Cost			\$50,266 - \$200,922
11 Yearly Management	6.81	MI	\$3,150 - \$4,500	\$21,448 - \$30,640

See Appendix A – Scope and Cost Notes for further description of what each item entails.

## Auburn Hills Segment



### Legend

- |            |                               |  |                             |
|------------|-------------------------------|--|-----------------------------|
|            | Existing Shared Use Path      |  | Primary Roads               |
|            | Potential Shared Use Path     |  | Secondary/Residential Roads |
| XYZ Rd (B) | Road Intersection & Type Note |  | Powerline                   |
| Creek      | Bridge and Feature Name       |  | Pipeline                    |
| XYZ Hwy    | Underpass and Feature Name    |  | Community Boundaries        |
|            |                               |  | Public Green Space          |
|            |                               |  | Other Public Lands          |

**Auburn Hills Segment**

This 2.1-mile segment includes 5 road crossings and 1 bridge. The bridge is over I-75. The current bridge is being removed and will be replaced by MDOT, who will absorb all costs associated with the bridge replacement.

**Preliminary Issues to Address:**

Issue	Action Required
1 I-75 Bridge Removal	Work with MDOT on replacement plans
2 Avondale High School	Explore potential interface with proposed path
3 Warehouse close to potential path	Check property ownership
4 Grey Rd., Primary Rd., Path Intersection	Study options for a safe crossing

**Implementation Checklist:**

Item	Status/Proposed Action
1 Phase I Environmental Assessment	Complete – Further phases not warranted
2 Recreation Plan Compliance	Unknown
3 Master and Zoning Plan Compliance	Unknown
4 Secure Acquisition Funding	N/A
5 Acquire Corridor	Acquired for \$1.8 million through Trust for Public Land
6 Determine Management Approach	Work with the County and/or Trailways Mgmt. Council
7 Secure funding for steps 8, 9, and 10	Develop regional implementation strategy
8 Make Initial Improvements	Includes insurance and basic safety improvements
9 Master Plan/Public Input Process	Work with the County and/or Trailways Mgmt. Council
10 Develop Construction Documents	Work with the County and/or Trailways Mgmt. Council
11 Develop management plan	Work with the County and/or Trailways Mgmt. Council
12 Secure construction funding	Develop regional implementation strategy
13 Solicit bids and select Contractor	Participate in multi-jurisdictional bid package
14 Construct the trail and support facilities	Work with the County and/or Trailways Mgmt. Council
15 Implement management plan	Work with the County and/or Trailways Mgmt. Council

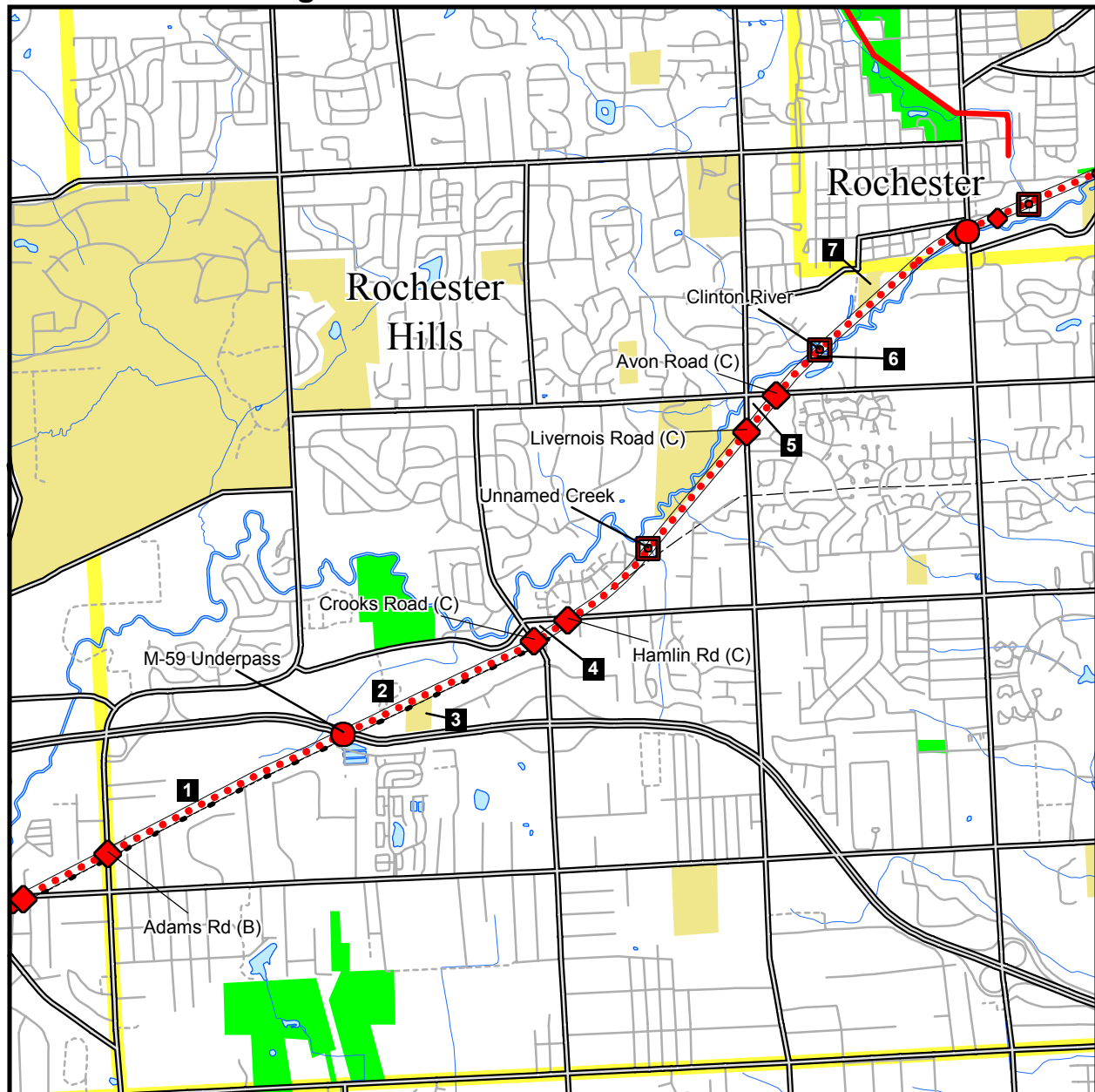
**Scope and Cost Summary:**

Item	Qty.	Unit	Range/Allowance	Item Range
1 Shared Use Path	11,185	LF	\$13 - \$21	\$145,405 - \$234,885
2 Type A Intersections	1.5	EA	\$5,000 - \$7,000	\$7,500 - \$10,500
3 Type B Intersections	0.5	EA	\$7,000 - \$10,000	\$3,500 - \$5,000
4 Type C Intersections	3	EA	\$10,000 - \$20,000	\$30,000 - \$60,000
5 Miscellaneous Improvements	11,185	LF	\$2 - \$4	\$22,370 - \$44,740
<b>Potential Construction Costs</b>				<b>\$208,775 - \$355,125</b>
6 Initial Improvements	2.0% of Construction Cost			\$4,176 - \$7,103
7 Master Plan	1.5% of Construction Cost			\$3,132 - \$5,327
8 Construction Documents/Admin.	7.5% of Construction Cost			\$15,658 - \$26,634
9 Yearly Management	2.12	MI	\$3,150 - \$4,500	\$6,673 - \$9,533

See Appendix A – Scope and Cost Notes for further description of what each item entails.



## Rochester Hills Segment



### Legend

- |                  |                               |  |                             |
|------------------|-------------------------------|--|-----------------------------|
|                  | Existing Shared Use Path      |  | Primary Roads               |
|                  | Potential Shared Use Path     |  | Secondary/Residential Roads |
| XYZ Rd (B)       | Road Intersection & Type Note |  | Powerline                   |
| Creek            | Bridge and Feature Name       |  | Pipeline                    |
| XYZ Hwy          | Underpass and Feature Name    |  | Community Boundaries        |
|                  |                               |  | Public Green Space          |
| 0 0.5 1<br>Miles |                               |  | Other Public Lands          |



**Rochester Hills Segment**

This 4.6-mile segment includes 4.5 road crossings and 2 bridges.

**Preliminary Issues to Address:**

Issue	Action Required
1 Proposed Adams Rd Interchange Improvements	Study options for a safe crossing
2 Suburban Softball Complex	Explore potential interface with proposed path
3 Drain District Property	Explore potential interface with proposed path
4 Crooks and Hamlin Rd. Crossings	Study options for a safe crossing
5 Avon and Livernois Rd. Crossings	Study options for a safe crossing
6 Missing Bridge	Look at options for replacement or alternative routes
7 City Property	Explore potential interface with proposed path

**Implementation Checklist:**

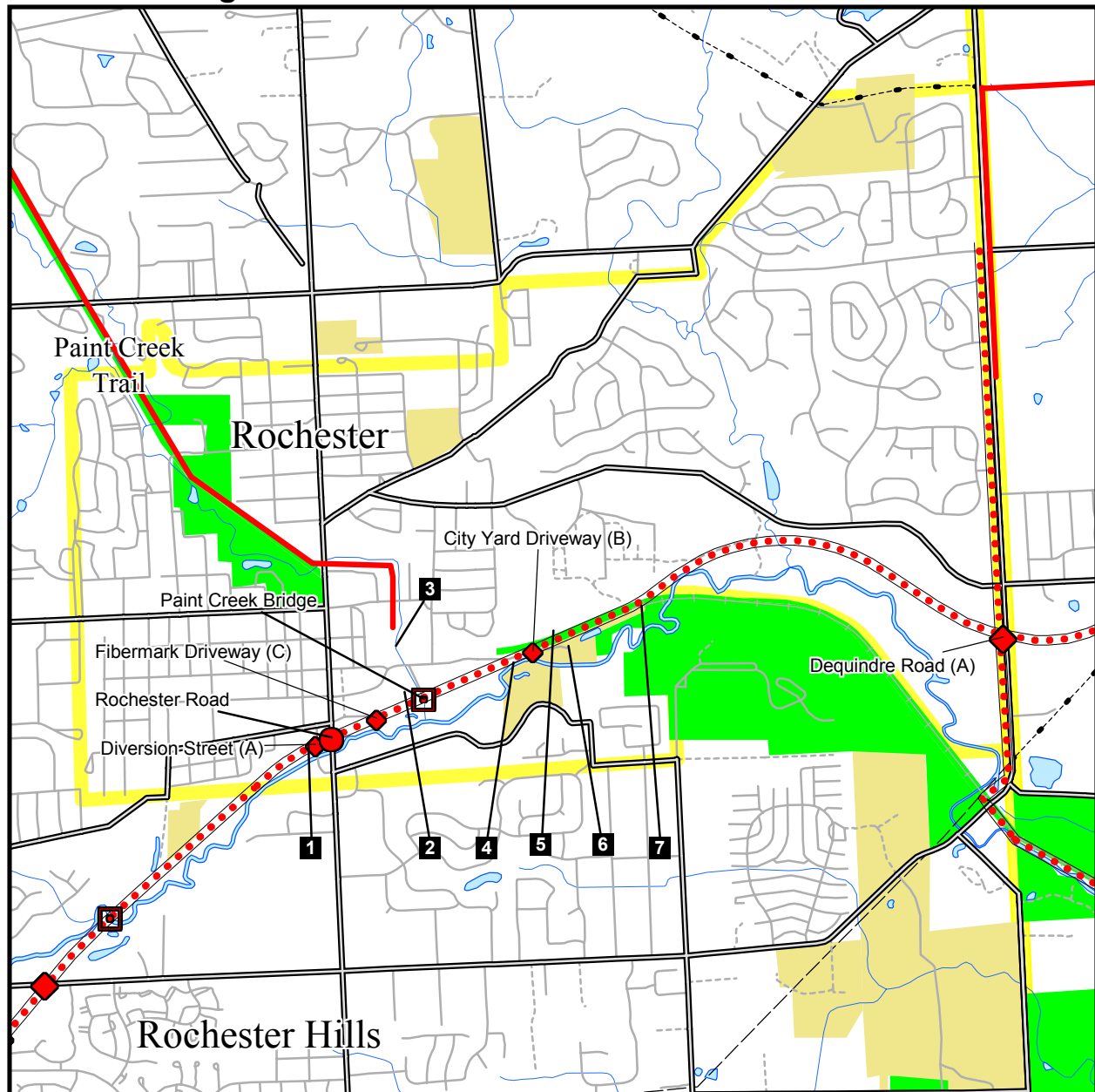
Item	Status/Proposed Action
1 Phase I Environmental Assessment	Complete – Further phases not warranted
2 Recreation Plan Compliance	Updated for MDNR Trust Fund Application
3 Master and Zoning Plan Compliance	Unknown
4 Secure Acquisition Funding	\$256,000 T-21 and \$3 million Trust Fund applications pending
5 Acquire Corridor	Utilize a conservancy to expedite the process
6 Determine Management Approach	Work with the County and/or Trailways Mgmt. Council
7 Secure funding for steps 8, 9, and 10	Develop regional implementation strategy
8 Make Initial Improvements	Includes insurance and basic safety improvements
9 Master Plan/Public Input Process	Work with the County and/or Trailways Mgmt. Council
10 Develop Construction Documents	Work with the County and/or Trailways Mgmt. Council
11 Develop management plan	Work with the County and/or Trailways Mgmt. Council
12 Secure construction funding	Develop regional implementation strategy
13 Solicit bids and select Contractor	Participate in multi-jurisdictional bid package
14 Construct the trail and support facilities	Work with the County and/or Trailways Mgmt. Council
15 Implement management plan	Work with the County and/or Trailways Mgmt. Council

**Scope and Cost Summary:**

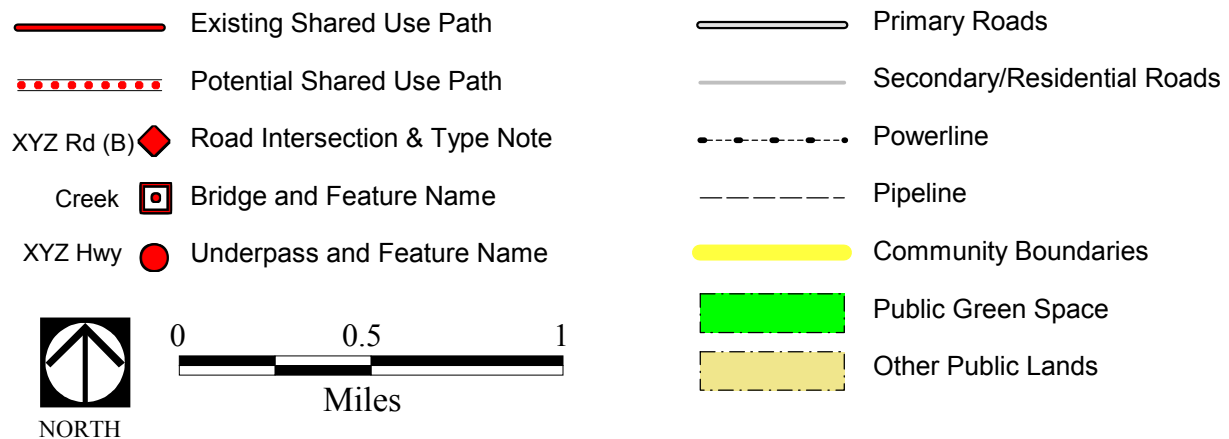
Item	Qty.	Unit	Range/Allowance	Item Range
1 Shared Use Path	24,074	LF	\$13 - \$21	\$312,962 - \$505,554
2 Type B Intersections	0.5	EA	\$7,000 - \$10,000	\$3,500 - \$5,000
3 Type C Intersections	4	EA	\$10,000 - \$20,000	\$40,000 - \$80,000
4 Open Deck Bridge Retrofit	60	LF	\$110 - \$150	\$6,600 - \$9,000
5 New Bridge	120	LF	\$1,300 - \$1,600	\$156,000 - \$192,000
6 Underpass Allowance	1	EA	\$5,000 - \$15,000	\$5,000 - \$15,000
7 Miscellaneous Improvements	24,074	LF	\$2 - \$4	\$48,148 - \$96,296
<b>Potential Construction Costs</b>				<b>\$572,210 - \$902,850</b>
8 Initial Improvements	2.0% of Construction Cost			\$11,444 - \$18,057
9 Master Plan	1.5% of Construction Cost			\$8,583 - \$13,543
10 Construction Documents/Admin.	7.5% of Construction Cost			\$42,916 - \$67,714
11 Yearly Management	4.56	MI	\$3,150 - \$4,500	\$14,362 - \$20,518

See Appendix A – Scope and Cost Notes for further description of what each item entails.

## Rochester Segment



### Legend



**Rochester Segment**

This 2.5-mile segment includes 3.5 road crossings, one bridge and the place where the Paint Creek Trail and the three proposed greenways of this report meet.

**Preliminary Issues to Address:**

Issue	Action Required
1 Potential Extra ROW	Check ownership and market of surplus ROW
2 Paint on Bridge	Suggest City checks paint composition
3 Link to Paint Creek Trail	Look at route options
4 Washout	Look at stabilization and re-routing options
5 Confusing Ownership	Look at overlapping ROW ownership
6 Potential Staging Area	Meet with the City to discuss issues and opportunities
7 Paint Creek Trail extension into Bloomer Park	Look at best way to provide access to Bloomer Park

**Implementation Checklist:**

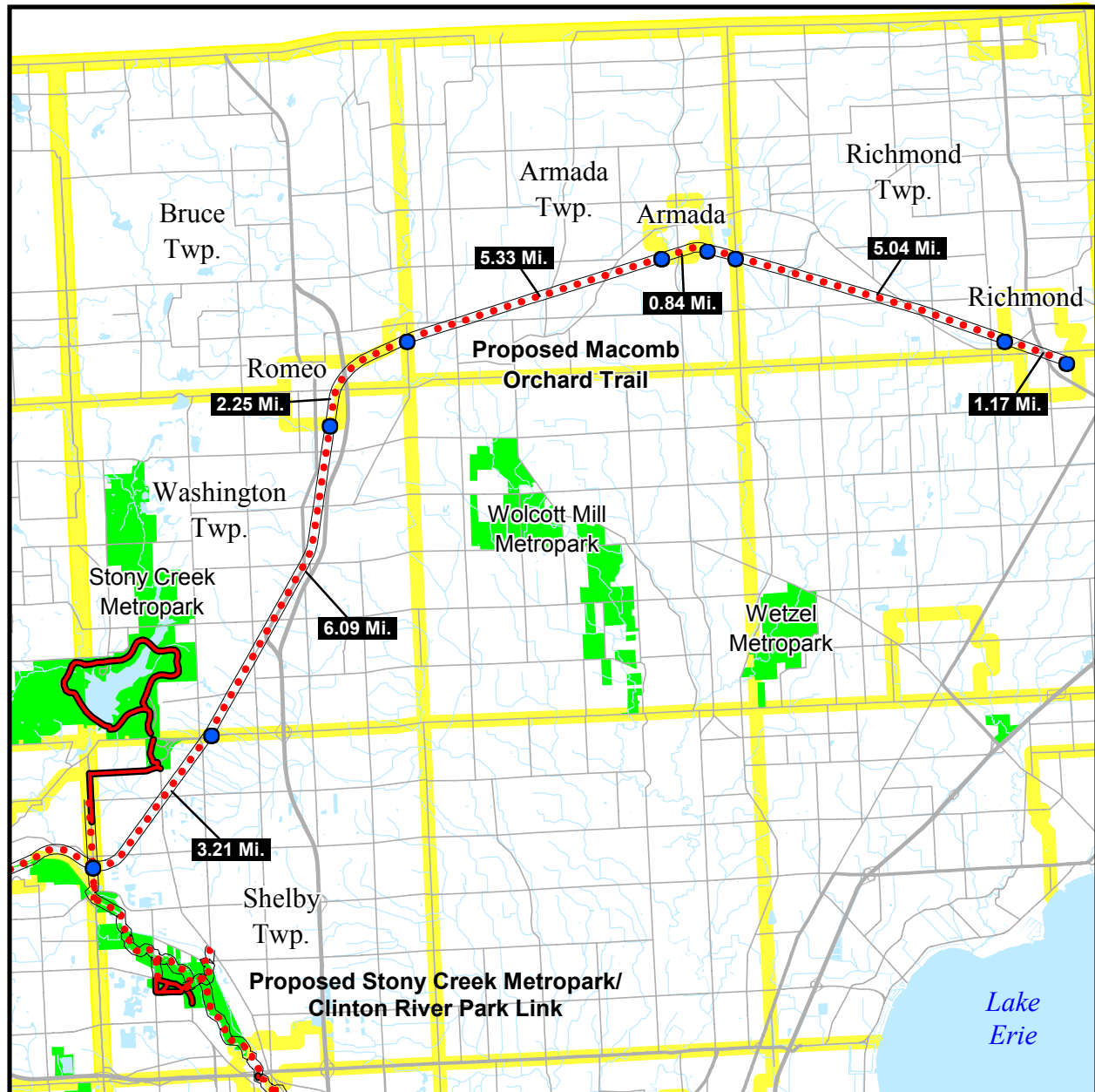
Item	Status/Proposed Action
1 Phase I Environmental Assessment	Complete – Further phases not warranted
2 Recreation Plan Compliance	Updated for MDNR Trust Fund Application
3 Master and Zoning Plan Compliance	Unknown
4 Secure Acquisition Funding	\$1,608,786 Trust Fund application approved
5 Acquire Corridor	Trust for Public Land is assisting with the purchase
6 Determine Management Approach	Work with the County and/or Trailways Mgmt. Council
7 Secure funding for steps 8, 9, and 10	Develop regional implementation strategy
8 Make Initial Improvements	Includes insurance and basic safety improvements
9 Master Plan/Public Input Process	Work with the County and/or Trailways Mgmt. Council
10 Develop Construction Documents	Work with the County and/or Trailways Mgmt. Council
11 Develop management plan	Work with the County and/or Trailways Mgmt. Council
12 Secure construction funding	Develop regional implementation strategy
13 Solicit bids and select Contractor	Participate in multi-jurisdictional bid package
14 Construct the trail and support facilities	Work with the County and/or Trailways Mgmt. Council
15 Implement management plan	Work with the County and/or Trailways Mgmt. Council

**Scope and Cost Summary:**








Item	Qty.	Unit	Range/Allowance	Item Range
1 Shared Use Path	13,127	LF	\$13 - \$21	\$170,651 - \$275,667
2 Type A Intersections	1.5	EA	\$5,000 - \$7,000	\$7,500 - \$10,500
3 Type B Intersections	1	EA	\$7,000 - \$10,000	\$7,000 - \$10,000
4 Type C Intersections	1	EA	\$10,000 - \$20,000	\$10,000 - \$20,000
5 Open Deck Bridge Retrofit	80	LF	\$110 - \$150	\$8,800 - \$12,000
6 Underpass Allowance	1	EA	\$5,000 - \$15,000	\$5,000 - \$15,000
7 Special Erosion Repair	1	LS	\$20,000 - \$80,000	\$20,000 - \$80,000
8 Miscellaneous Improvements	13,127	LF	\$2 - \$4	\$26,254 - \$52,508
<b>Potential Construction Costs</b>				<b>\$255,205 - \$475,675</b>
9 Initial Improvements	2.0% of Construction Cost			\$5,104 - \$9,514
10 Master Plan	1.5% of Construction Cost			\$3,828 - \$7,135
11 Construction Documents/Admin.	7.5% of Construction Cost			\$19,140 - \$35,676
12 Yearly Management	2.49	MI	\$3,150 - \$4,500	\$7,831 - \$11,188

See Appendix A – Scope and Cost Notes for further description of what each item entails.

## Macomb Orchard Trail Overview

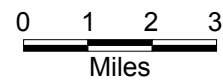


### Legend

-  Existing Shared Use Path
-  Potential Shared Use Path
-  Segment Boundary
-  Segment Length
-  Highways
-  Community Boundaries
-  Major Parklands



NORTH



## 2. Macomb Orchard Trail

The Macomb Orchard Trail is a proposed 23.9-mile rails-to-trails conversion that arcs through central and northern Macomb County. It includes rapidly developing communities and pastoral countryside. It is named after the numerous apple orchards that dot the landscape surrounding the proposed greenway route.

### Key Stakeholders

The primary stakeholders in the project are defined by organizations or agencies that may have some level of responsibility in the ownership and/or management of the proposed project. The following are key bodies of authority for each stakeholder:

1. Macomb County Board of Commissioners
2. Macomb County Parks and Recreation Commission
3. Armada Township Board of Supervisors
4. Bruce Township Board of Supervisors
5. Richmond Township Board of Supervisors
6. Shelby Township Board of Supervisors
7. Washington Township Board of Supervisors
8. The Village of Romeo Mayor and City Council
9. The Village of Armada Mayor and City Council
10. The City of Richmond Mayor and City Council
11. Macomb County Road Commission
12. Huron-Clinton Metropolitan Authority
13. Friends of the Macomb Orchard Trail

### Proposed Implementation and Advocacy Steps

An implementation checklist is included with each segment description. The greenway specialist team will focus on the following steps:

1. Property acquisition strategy and funding as necessary (the extent of work on this step is dependent on an outstanding T-21 funding application).
2. For the Armada, Richmond, Shelby, and Washington Townships; the Villages of Romeo and Armada; the City of Richmond, and Macomb County:
  - A) Meet with community leadership to answer questions regarding the proposed project, gather their input on trail issues.
  - B) Review community Master Plans to assure the proposed use is in compliance, work with the communities to make revisions as necessary and formally adopt any modifications.
  - C) Review community Zoning Plans to assure the proposed trail and greenway uses are in compliance, work with the communities to make revisions as necessary, and formally adopt any modifications.
  - D) Review community Recreation Plans to see if the proposed trail is listed and its current priority ranking, work with the communities to make revisions as necessary, formally adopt any modifications, and file any modifications with the State.
  - E) Assist the communities in drafting resolutions of support and passing those resolutions of support.
3. Develop and review preliminary road crossing plans with the County Road Commission and MDOT as appropriate.
4. Outline the issues and any further work that needs to be completed regarding retrofitting or replacing the bridges.
5. Identify, outline the issues and any further work that needs to be completed regarding potential solutions for other special circumstances along the trail such as wash-outs, steep side slopes, conflicting adjacent uses. Specific solutions may be proposed as time allows.
6. Recommend that communities test the ballast for arsenic and the paint on steel portions of the bridge for lead, as these two factors will significantly alter the nature and cost of the improvements.
7. Work with the communities to establish the most appropriate means to coordinate the planning, implementation, and management of the proposed trail system. Look at creating a new Trailway Commission or working through the County Parks and Recreation Commission.

8. Assist the communities in the preparation of various grant applications for acquisition, pre-construction, and construction funds.
9. Assist the communities in locating, programming and costing of staging areas.
10. Prepare small-scale maps for use in brochures and prepare large-format maps for display and use in presentations.
11. Prepare a PowerPoint Illustration for use in presentations and make presentations to key potential funders.
12. Contact potential user groups and potentially interested businesses (due to business type or proximity) to inform them of the project, build the advocacy base, and potentially gain project funding. See Appendix D – Other Potential Partners for an initial list of groups and businesses.

**Scope and Cost Summary for the Macomb Orchard Trail:**

Item	Qty.	Unit	Range/Allowance		Item Range	
1 Shared Use Path	126,262	LF	\$13 -	\$21	\$1,641,406 -	\$2,651,502
2 Type A Intersections	12.5	EA	\$5,000 -	\$7,000	\$62,500 -	\$87,500
3 Type B Intersections	7	EA	\$7,000 -	\$10,000	\$49,000 -	\$70,000
4 Type C Intersections	9	EA	\$10,000 -	\$20,000	\$90,000 -	\$180,000
5 Closed Deck Bridge Retrofit	256	LF	\$80 -	\$120	\$20,480 -	\$30,720
6 Open Deck Bridge Retrofit	249	LF	\$110 -	\$150	\$27,390 -	\$37,350
7 Staging Areas Allowance	3	EA	\$100,000 -	\$250,000	\$300,000 -	\$750,000
8 Miscellaneous Improvements	126,262	LF	\$2 -	\$4	\$252,524 -	\$505,048
<b>Potential Construction Costs</b>					<b>\$2,443,300 -</b>	<b>\$4,312,120</b>
9 Initial Improvements	2.0% of Construction Cost				\$48,866 -	\$86,242
10 Master Plan	1.5% of Construction Cost				\$36,650 -	\$64,682
11 Construction Doc's/Admin.	7.5% of Construction Cost				\$183,248 -	\$323,409
12 Yearly Management	23.91	MI	\$3,150 -	\$4,500	\$75,327 -	\$107,610

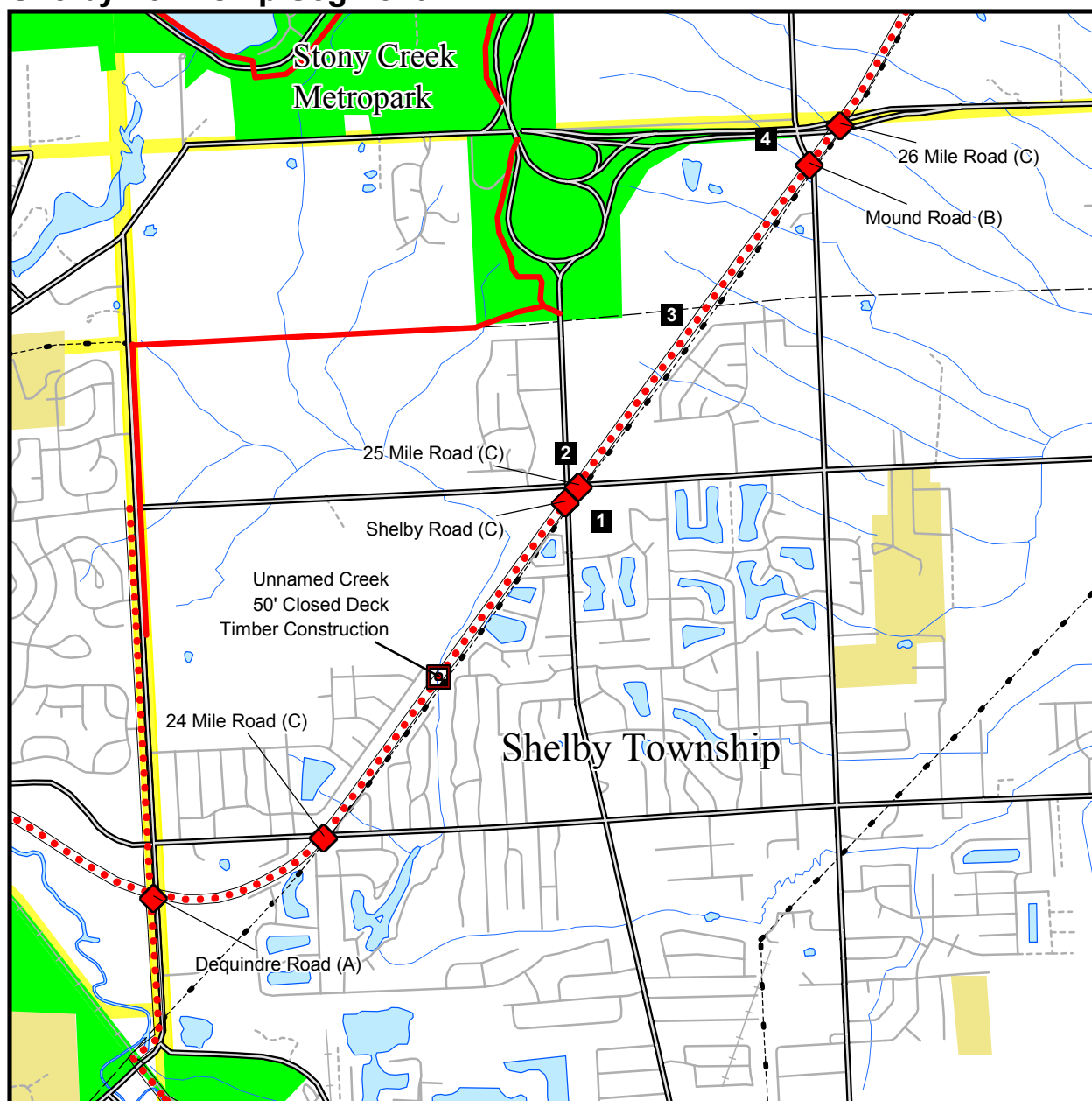
See Appendix A – Scope and Cost Notes for further description of what each item entails.

**Macomb Orchard Trail Segment Detail**

The following pages analyze the Macomb Orchard Trail by political jurisdiction with a summary of the issues, an implementation checklist, and a cost summary. There is a page for each of the following jurisdictions the proposed path passes through going east to west:

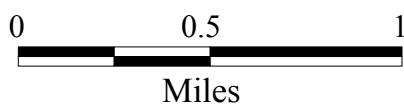
- Shelby Township
- Washington Township
- The Village of Romeo
- Armada Township
- The Village of Armada
- Richmond Township
- The City of Richmond

## Shelby Township Segment



### Legend

- |            |                               |  |                             |
|------------|-------------------------------|--|-----------------------------|
|            | Existing Shared Use Path      |  | Primary Roads               |
|            | Potential Shared Use Path     |  | Secondary/Residential Roads |
| XYZ Rd (B) | Road Intersection & Type Note |  | Powerline                   |
| Creek      | Bridge and Feature Name       |  | Pipeline                    |
| XYZ Hwy    | Underpass and Feature Name    |  | Community Boundaries        |
|            |                               |  | Public Green Space          |
|            |                               |  | Other Public Lands          |





**Shelby Township Segment**

This 3.2-mile segment includes 5.5 road crossings and 1 bridge.

**Preliminary Issues to Address:**

Issue	Action Required
1 Shelby Rd. and 25 Mile Rd. Crossings	Study options for safe crossings
2 Shortcut to Stony Creek Metropark	Look at link options to Stony Creek Metropark
3 Shortcut to Stony Creek Metropark	Look at link options to Stony Creek Metropark
4 Shortcut to Stony Creek Metropark	Look at link options to Stony Creek Metropark

**Implementation Checklist:**

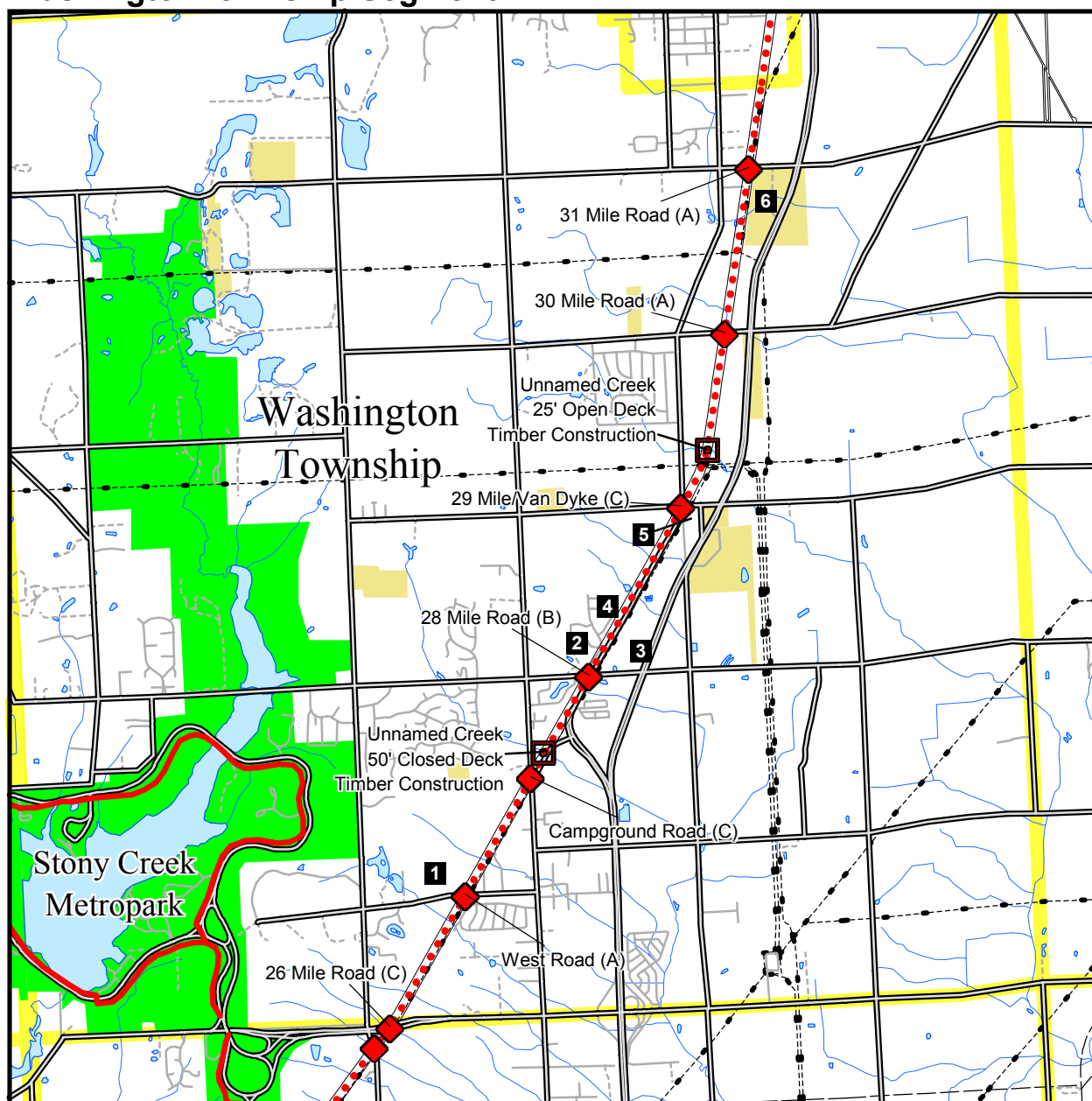
Item	Status/Proposed Action
1 Phase I Environmental Assessment	Complete – Further phases not warranted
2 Recreation Plan Compliance	Unknown – Check and fix if needed
3 Master and Zoning Plan Compliance	Unknown – Check and fix if needed
4 Secure Acquisition Funding	County T-21 Application submitted April 2001
5 Acquire Corridor	Utilize a conservancy to expedite the process
6 Determine Management Approach	Work with the County and/or Trailways Mgmt. Council
7 Secure funding for steps 8, 9, and 10	Develop regional implementation strategy
8 Make Initial Improvements	Includes insurance and basic safety improvements
9 Master Plan/Public Input Process	Work with the County and/or Trailways Mgmt. Council
10 Develop Construction Documents	Work with the County and/or Trailways Mgmt. Council
11 Develop management plan	Work with the County and/or Trailways Mgmt. Council
12 Secure construction funding	Develop regional implementation strategy
13 Solicit bids and select Contractor	Participate in multi-jurisdictional bid package
14 Construct the trail and support facilities	Work with the County and/or Trailways Mgmt. Council
15 Implement management plan	Work with the County and/or Trailways Mgmt. Council

**Scope and Cost Summary:**

Item	Qty.	Unit	Range/Allowance	Item Range
1 Shared Use Path	16,937	LF	\$13 - \$21	\$220,181 - \$355,677
2 Type A Intersections	0.5	EA	\$5,000 - \$7,000	\$2,500 - \$3,500
3 Type B Intersections	1	EA	\$7,000 - \$10,000	\$7,000 - \$10,000
4 Type C Intersections	4	EA	\$10,000 - \$20,000	\$40,000 - \$80,000
5 Closed Deck Bridge Retrofit	50	LF	\$80 - \$120	\$4,000 - \$6,000
6 Miscellaneous Improvements	16,937	LF	\$2 - \$4	\$33,874 - \$67,748
<b>Potential Construction Costs</b>				<b>\$307,555 - \$522,925</b>
7 Initial Improvements	2.0% of Construction Cost			\$6,151 - \$10,459
8 Master Plan	1.5% of Construction Cost			\$4,613 - \$7,844
9 Construction Documents/Admin.	7.5% of Construction Cost			\$23,067 - \$39,219
10 Yearly Management	3.21	MI	\$3,150 - \$4,500	\$10,104 - \$14,435

See Appendix A – Scope and Cost Notes for further description of what each item entails.

## Washington Township Segment



### Legend

- |            |                               |  |                             |
|------------|-------------------------------|--|-----------------------------|
|            | Existing Shared Use Path      |  | Primary Roads               |
|            | Potential Shared Use Path     |  | Secondary/Residential Roads |
| XYZ Rd (B) | Road Intersection & Type Note |  | Powerline                   |
| Creek      | Bridge and Feature Name       |  | Pipeline                    |
| XYZ Hwy    | Underpass and Feature Name    |  | Community Boundaries        |
|            |                               |  | Public Green Space          |
|            |                               |  | Other Public Lands          |

**Washington Township Segment**

This 6.1-mile segment includes 6 road crossings and 2 bridges.

**Preliminary Issues to Address:**

Issue	Action Required
1 Grain elevator adjacent to proposed path	Look at potential operations conflicts and solutions
2 Physical constraints make it difficult to re-align proposed path	Study options for safe crossings
3 Adjacent power lines	Determine if there is any ROW overlap.
4 Grade subsidence	Look at cause and potential solutions
5 Signalized intersection	Look at establishing crosswalks
6 100' Acre MDOT Property	Look at use as staging area

**Implementation Checklist:**

Item	Status/Proposed Action
1 Phase I Environmental Assessment	Complete – Further phases not warranted
2 Recreation Plan Compliance	Unknown – Check and fix if needed
3 Master and Zoning Plan Compliance	Unknown – Check and fix if needed
4 Secure Acquisition Funding	County T-21 Application submitted April 2001
5 Acquire Corridor	Utilize a conservancy to expedite the process
6 Determine Management Approach	Work with the County and/or Trailways Mgmt. Council
7 Secure funding for steps 8, 9, and 10	Develop regional implementation strategy
8 Make Initial Improvements	Includes insurance and basic safety improvements
9 Master Plan/Public Input Process	Work with the County and/or Trailways Mgmt. Council
10 Develop Construction Documents	Work with the County and/or Trailways Mgmt. Council
11 Develop management plan	Work with the County and/or Trailways Mgmt. Council
12 Secure construction funding	Develop regional implementation strategy
13 Solicit bids and select Contractor	Participate in multi-jurisdictional bid package
14 Construct the trail and support facilities	Work with the County and/or Trailways Mgmt. Council
15 Implement management plan	Work with the County and/or Trailways Mgmt. Council

**Scope and Cost Summary:**

Item	Qty.	Unit	Range/Allowance	Item Range
1 Shared Use Path	32,136	LF	\$13 - \$21	\$417,768 - \$674,856
2 Type A Intersections	3	EA	\$5,000 - \$7,000	\$15,000 - \$21,000
3 Type B Intersections	1	EA	\$7,000 - \$10,000	\$7,000 - \$10,000
4 Type C Intersections	2	EA	\$10,000 - \$20,000	\$20,000 - \$40,000
5 Open-deck Bridge Retrofit	25	LF	\$110 - \$150	\$2,750 - \$3,750
6 Closed-deck Bridge Retrofit	50	LF	\$80 - \$120	\$4,000 - \$6,000
7 Miscellaneous Improvements	32,136	LF	\$2 - \$4	\$64,272 - \$128,544
<b>Potential Construction Costs</b>				<b>\$530,790 - \$884,150</b>
8 Initial Improvements	2.0% of Construction Cost			\$10,616 - \$17,683
9 Master Plan	1.5% of Construction Cost			\$7,962 - \$13,262
10 Construction Documents/Admin.	7.5% of Construction Cost			\$39,809 - \$66,311
11 Yearly Management	6.09	MI	\$3,150 - \$4,500	\$19,172 - \$27,389

See Appendix A – Scope and Cost Notes for further description of what each item entails.

## Romeo Segment



### Legend

- |            |                               |  |                             |
|------------|-------------------------------|--|-----------------------------|
|            | Existing Shared Use Path      |  | Primary Roads               |
|            | Potential Shared Use Path     |  | Secondary/Residential Roads |
| XYZ Rd (B) | Road Intersection & Type Note |  | Powerline                   |
| Creek      | Bridge and Feature Name       |  | Pipeline                    |
| XYZ Hwy    | Underpass and Feature Name    |  | Community Boundaries        |
|            |                               |  | Public Green Space          |
|            |                               |  | Other Public Lands          |
- 0 0.5 1  
Miles

**Romeo Segment**

This is a 2.3-mile segment borders on Bruce Township for 0.6 miles and includes 2.5 road crossings and 1 bridge.

**Preliminary Issues to Address:**

Issue	Action Required
1 Ford Plant	Follow up on interest already expressed by the plant management and employees.
2 Road	Determine ownership of parallel asphalt road

**Implementation Checklist:**

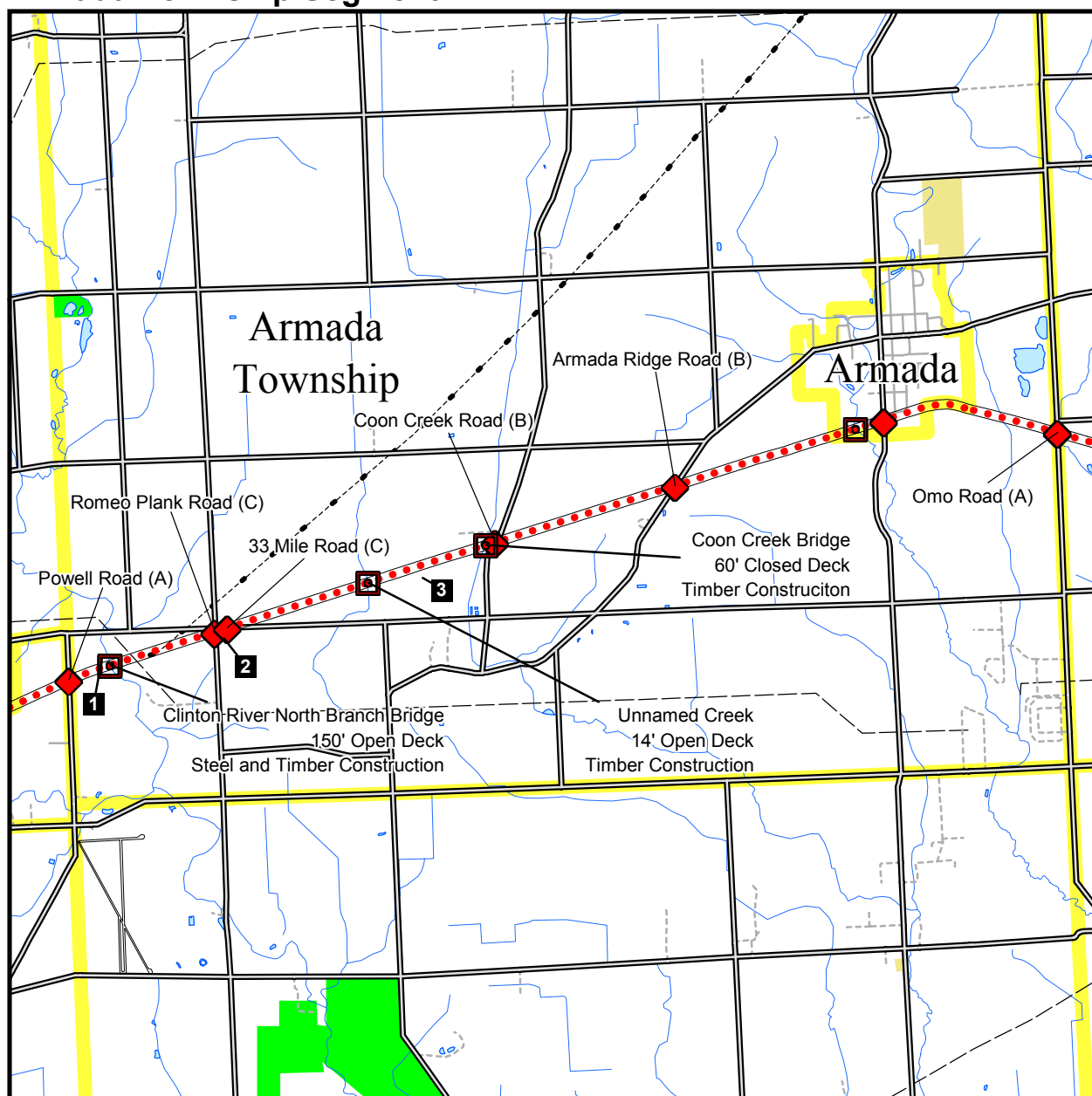
Item	Status/Proposed Action
1 Phase I Environmental Assessment	Complete – Further phases not warranted
2 Recreation Plan Compliance	Unknown – Check and fix if needed
3 Master and Zoning Plan Compliance	Unknown – Check and fix if needed
4 Secure Acquisition Funding	County T-21 Application submitted April 2001
5 Acquire Corridor	Utilize a conservancy to expedite the process
6 Determine Management Approach	Work with the County and/or Trailways Mgmt. Council
7 Secure funding for steps 8, 9, and 10	Develop regional implementation strategy
8 Make Initial Improvements	Includes insurance and basic safety improvements
9 Master Plan/Public Input Process	Work with the County and/or Trailways Mgmt. Council
10 Develop Construction Documents	Work with the County and/or Trailways Mgmt. Council
11 Develop management plan	Work with the County and/or Trailways Mgmt. Council
12 Secure construction funding	Develop regional implementation strategy
13 Solicit bids and select Contractor	Participate in multi-jurisdictional bid package
14 Construct the trail and support facilities	Work with the County and/or Trailways Mgmt. Council
15 Implement management plan	Work with the County and/or Trailways Mgmt. Council

**Scope and Cost Summary:**

Item	Qty.	Unit	Range/Allowance		Item Range	
1 Shared Use Path	11,854	LF	\$13 -	\$21	\$154,102 -	\$248,934
2 Type A Intersections	1.5	EA	\$5,000 -	\$7,000	\$7,500 -	\$10,500
3 Type B Intersections	1.0	EA	\$7,000 -	\$10,000	\$7,000 -	\$10,000
4 Closed-deck Bridge Retrofit	47	LF	\$80 -	\$120	\$3,760 -	\$5,640
5 Miscellaneous Improvements	11,854	LF	\$2 -	\$4	\$23,708 -	\$47,416
<b>Potential Construction Costs</b>					<b>\$196,070 -</b>	<b>\$322,490</b>
6 Initial Improvements	2.0% of Construction Cost				\$3,921 -	\$6,450
7 Master Plan	1.5% of Construction Cost				\$2,941 -	\$4,837
8 Construction Documents/Admin.	7.5% of Construction Cost				\$14,705 -	\$24,187
9 Yearly Management	2.25	MI	\$3,150 -	\$4,500	\$7,072 -	\$10,103

See Appendix A – Scope and Cost Notes for further description of what each item entails.

## Armada Township Segment



### Legend

- |            |                               |  |                             |
|------------|-------------------------------|--|-----------------------------|
|            | Existing Shared Use Path      |  | Primary Roads               |
|            | Potential Shared Use Path     |  | Secondary/Residential Roads |
| XYZ Rd (B) | Road Intersection & Type Note |  | Powerline                   |
| Creek      | Bridge and Feature Name       |  | Pipeline                    |
| XYZ Hwy    | Underpass and Feature Name    |  | Community Boundaries        |
|            |                               |  | Public Green Space          |
| 0 1/2 1 2  |                               |  | Other Public Lands          |
|            | Miles                         |  |                             |

**Armada Township Segment**

This 5.3-mile segment includes 5 road crossings and 3 bridges.

**Preliminary Issues to Address:**

Issue	Action Required
1 Paint on Bridge	Suggest Township checks paint composition
2 Romeo Plank Road	Study alternatives for a safe crossing
3 186 Acre Detroit Edison Property	Explore potential interface with proposed path

**Implementation Checklist:**

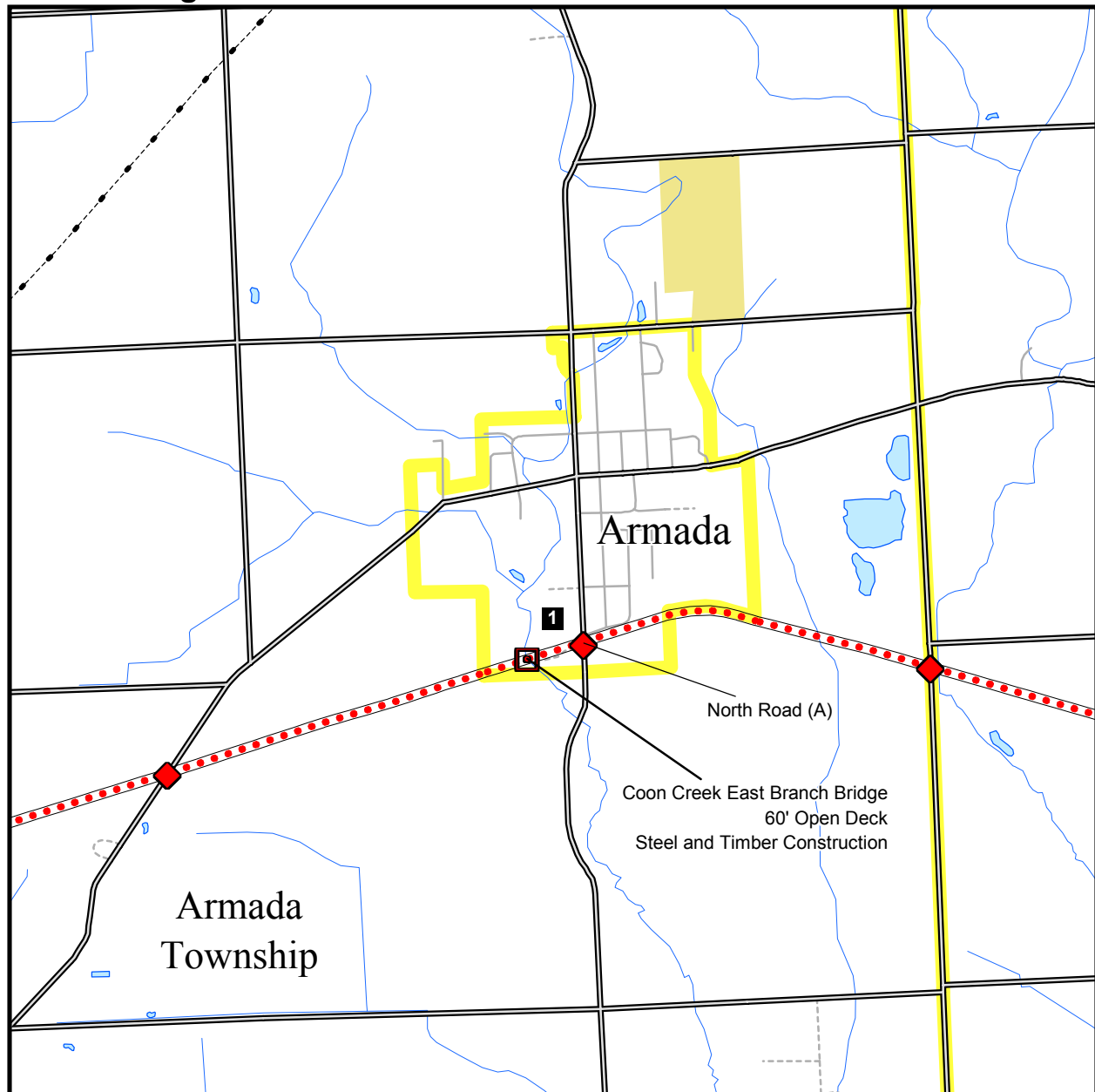
Item	Status/Proposed Action
1 Phase I Environmental Assessment	Complete – Further phases not warranted
2 Recreation Plan Compliance	Unknown – Check and fix if needed
3 Master and Zoning Plan Compliance	Unknown – Check and fix if needed
4 Secure Acquisition Funding	County T-21 Application submitted April 2001
5 Acquire Corridor	Utilize a conservancy to expedite the process
6 Determine Management Approach	Work with the County and/or Trailways Mgmt. Council
7 Secure funding for steps 8, 9, and 10	Develop regional implementation strategy
8 Make Initial Improvements	Includes insurance and basic safety improvements
9 Master Plan/Public Input Process	Work with the County and/or Trailways Mgmt. Council
10 Develop Construction Documents	Work with the County and/or Trailways Mgmt. Council
11 Develop management plan	Work with the County and/or Trailways Mgmt. Council
12 Secure construction funding	Develop regional implementation strategy
13 Solicit bids and select Contractor	Participate in multi-jurisdictional bid package
14 Construct the trail and support facilities	Work with the County and/or Trailways Mgmt. Council
15 Implement management plan	Work with the County and/or Trailways Mgmt. Council

**Scope and Cost Summary:**













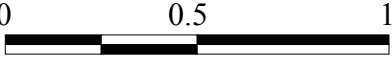

Item	Qty.	Unit	Range/Allowance		Item Range	
1 Shared Use Path	28,090	LF	\$13 -	\$21	\$365,170 -	\$589,890
2 Type A Intersections	1	EA	\$5,000 -	\$7,000	\$5,000 -	\$7,000
3 Type B Intersections	2	EA	\$7,000 -	\$10,000	\$14,000 -	\$20,000
4 Type C Intersections	2	EA	\$10,000 -	\$20,000	\$20,000 -	\$40,000
5 Open-deck Bridge Retrofit	164	LF	\$110 -	\$150	\$18,040 -	\$24,600
6 Closed-deck Bridge Retrofit	60	LF	\$80 -	\$120	\$4,800 -	\$7,200
7 Miscellaneous Improvements	28,090	LF	\$2 -	\$4	\$56,180 -	\$112,360
<b>Potential Construction Costs</b>					<b>\$483,190 -</b>	<b>\$801,050</b>
8 Initial Improvements	2.0% of Construction Cost				\$9,664 -	\$16,021
9 Master Plan	1.5% of Construction Cost				\$7,248 -	\$12,016
10 Construction Documents/Admin.	7.5% of Construction Cost				\$36,239 -	\$60,079
11 Yearly Management	5.32	MI	\$3,150 -	\$4,500	\$16,758 -	\$23,940

See Appendix A – Scope and Cost Notes for further description of what each item entails.

## Armada Segment



### Legend

- |  |  |
|--|--|
|  Existing Shared Use Path                 |  Primary Roads               |
|  Potential Shared Use Path                |  Secondary/Residential Roads |
| XYZ Rd (B)  Road Intersection & Type Note |  Powerline                   |
| Creek  Bridge and Feature Name            |  Pipeline                    |
| XYZ Hwy  Underpass and Feature Name       |  Community Boundaries        |
|  NORTH                                    |  Public Green Space          |
|  0 0.5 1 Miles                            |  Other Public Lands          |



**Armada Segment**

This 0.8-mile segment includes 1 road crossing and 1 bridge.

**Preliminary Issues to Address:**

Issue	Action Required
1 Grain elevator adjacent to proposed path	Look at potential operations conflicts and solutions

**Implementation Checklist:**

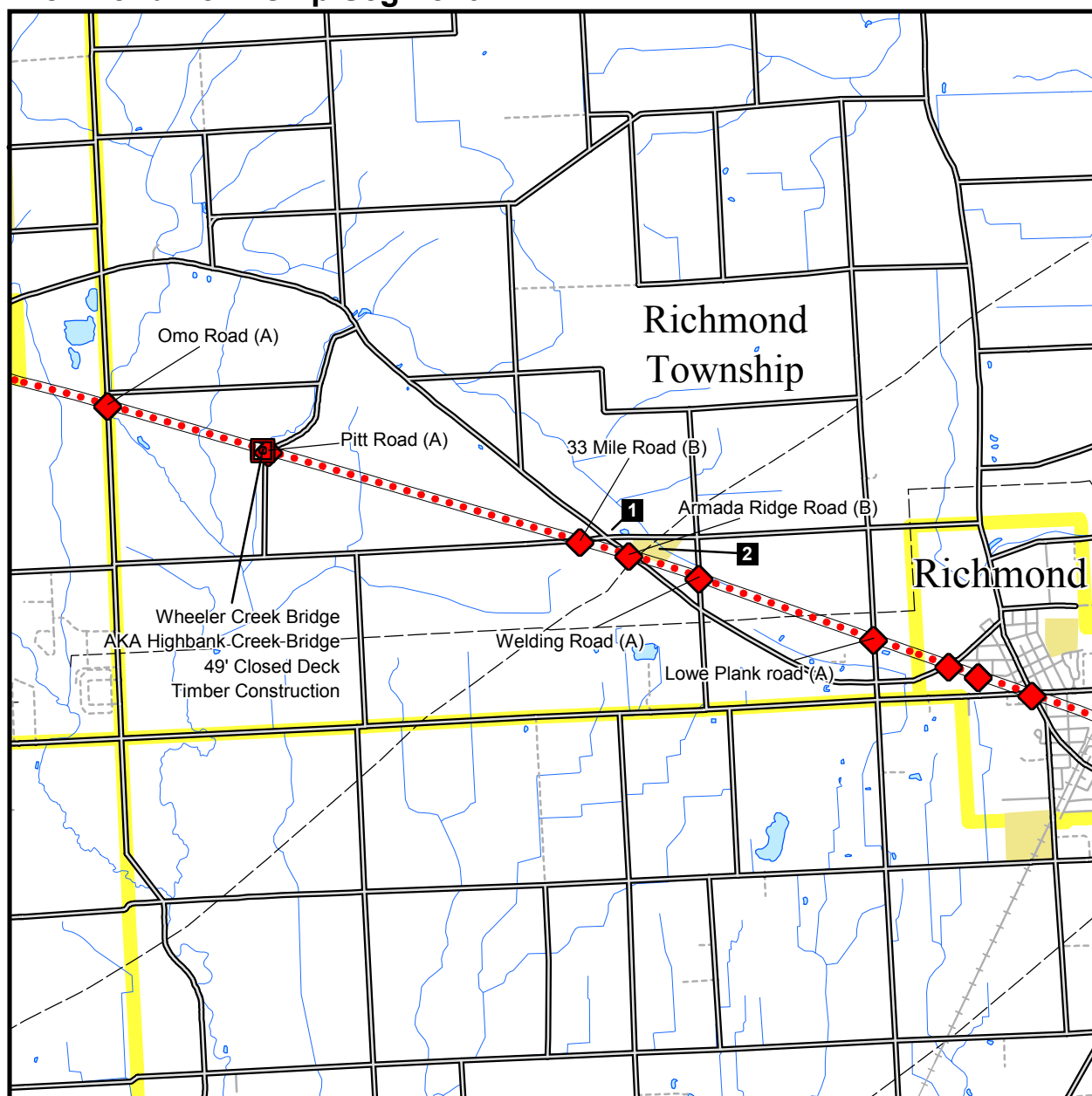
Item	Status/Proposed Action
1 Phase I Environmental Assessment	Complete – Further phases not warranted
2 Recreation Plan Compliance	Unknown – Check and fix if needed
3 Master and Zoning Plan Compliance	Unknown – Check and fix if needed
4 Secure Acquisition Funding	County T-21 Application submitted April 2001
5 Acquire Corridor	Utilize a conservancy to expedite the process
6 Determine Management Approach	Work with the County and/or Trailways Mgmt. Council
7 Secure funding for steps 8, 9, and 10	Develop regional implementation strategy
8 Make Initial Improvements	Includes insurance and basic safety improvements
9 Master Plan/Public Input Process	Work with the County and/or Trailways Mgmt. Council
10 Develop Construction Documents	Work with the County and/or Trailways Mgmt. Council
11 Develop management plan	Work with the County and/or Trailways Mgmt. Council
12 Secure construction funding	Develop regional implementation strategy
13 Solicit bids and select Contractor	Participate in multi-jurisdictional bid package
14 Construct the trail and support facilities	Work with the County and/or Trailways Mgmt. Council
15 Implement management plan	Work with the County and/or Trailways Mgmt. Council

**Scope and Cost Summary:**

Item	Qty.	Unit	Range/Allowance		Item Range	
1 Shared Use Path	4,458	LF	\$13 -	\$21	\$57,954 -	\$93,618
2 Type A Intersections	1	EA	\$5,000 -	\$7,000	\$5,000 -	\$7,000
3 Open Deck Bridge Retrofit	60	LF	\$110 -	\$150	\$6,600 -	\$9,000
4 Miscellaneous Improvements	4,458	LF	\$2 -	\$4	\$8,916 -	\$17,832
<b>Potential Construction Costs</b>					<b>\$78,470 -</b>	<b>\$127,450</b>
5 Initial Improvements	2.0% of Construction Cost				\$1,569 -	\$2,549
6 Master Plan	1.5% of Construction Cost				\$1,177 -	\$1,912
7 Construction Documents/Admin.	7.5% of Construction Cost				\$5,885 -	\$9,559
8 Yearly Management	0.84	MI	\$3,150 -	\$4,500	\$2,660 -	\$3,799

See Appendix A – Scope and Cost Notes for further description of what each item entails.

## Richmond Township Segment



### Legend

- |            |                               |  |                             |
|------------|-------------------------------|--|-----------------------------|
|            | Existing Shared Use Path      |  | Primary Roads               |
|            | Potential Shared Use Path     |  | Secondary/Residential Roads |
| XYZ Rd (B) | Road Intersection & Type Note |  | Powerline                   |
| Creek      | Bridge and Feature Name       |  | Pipeline                    |
| XYZ Hwy    | Underpass and Feature Name    |  | Community Boundaries        |
|            |                               |  | Public Green Space          |
|            |                               |  | Other Public Lands          |
- 0 1/2 1 2  
Miles
- NORTH

**Richmond Township Segment**

This 5-mile segment includes 5.5 road crossings and 1 bridge.

**Preliminary Issues to Address:**

Issue	Action Required
1 33 Mile Rd. & Armada Ridge Rd. Crossings	Study alternatives for a safe crossing
2 22.5 Acre Township Property	Explore potential interface with proposed path

**Implementation Checklist:**

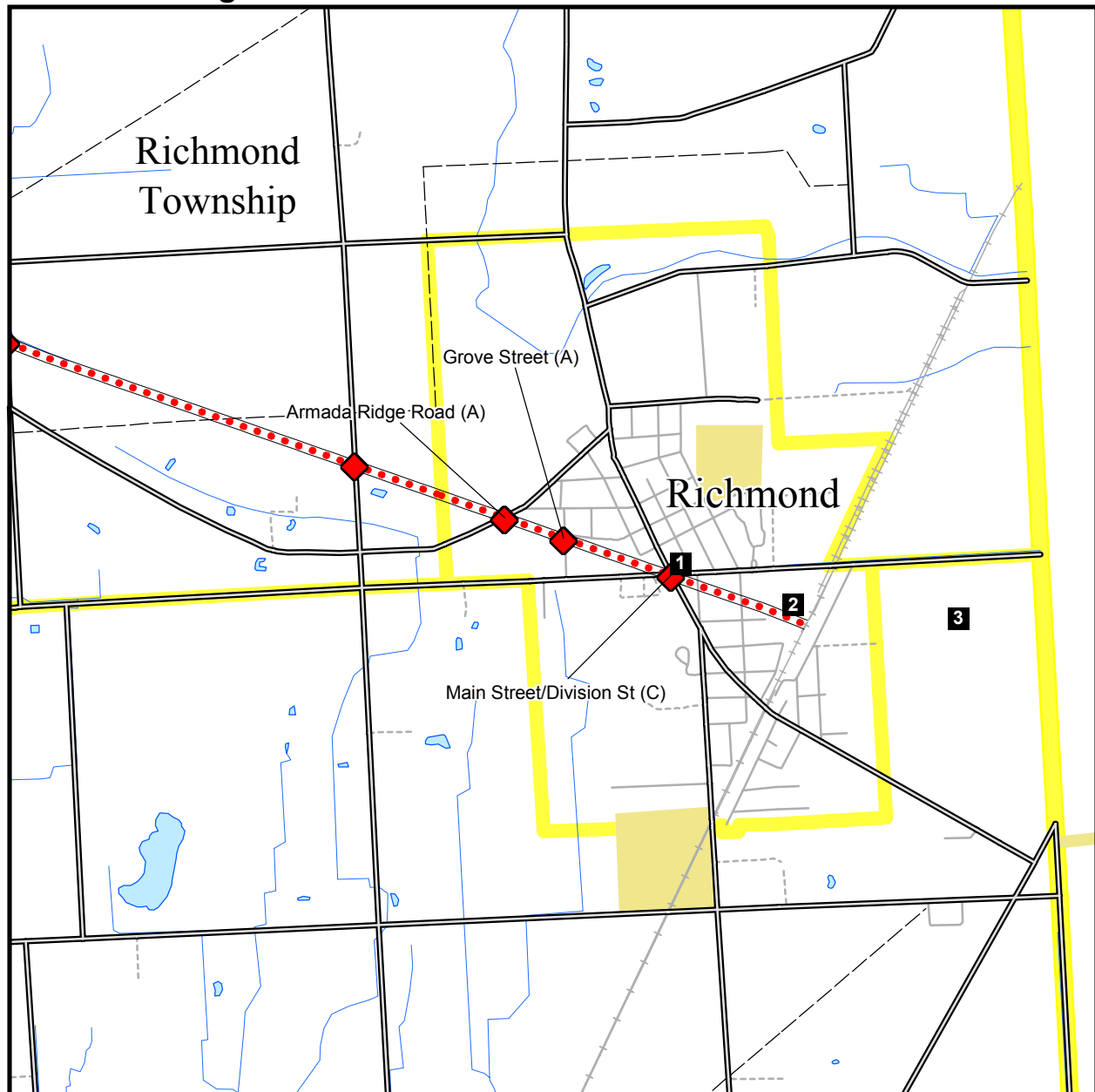
Item	Status/Proposed Action
1 Phase I Environmental Assessment	Complete – Further phases not warranted
2 Recreation Plan Compliance	Unknown – Check and fix if needed
3 Master and Zoning Plan Compliance	Unknown – Check and fix if needed
4 Secure Acquisition Funding	County T-21 Application submitted April 2001
5 Acquire Corridor	Utilize a conservancy to expedite the process
6 Determine Management Approach	Work with the County and/or Trailways Mgmt. Council
7 Secure funding for steps 8, 9, and 10	Develop regional implementation strategy
8 Make Initial Improvements	Includes insurance and basic safety improvements
9 Master Plan/Public Input Process	Work with the County and/or Trailways Mgmt. Council
10 Develop Construction Documents	Work with the County and/or Trailways Mgmt. Council
11 Develop management plan	Work with the County and/or Trailways Mgmt. Council
12 Secure construction funding	Develop regional implementation strategy
13 Solicit bids and select Contractor	Participate in multi-jurisdictional bid package
14 Construct the trail and support facilities	Work with the County and/or Trailways Mgmt. Council
15 Implement management plan	Work with the County and/or Trailways Mgmt. Council

**Scope and Cost Summary:**













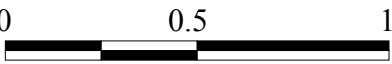

Item	Qty.	Unit	Range/Allowance		Item Range	
1 Shared Use Path	26,634	LF	\$13 -	\$21	\$346,242 -	\$559,314
2 Type A Intersections	3.5	EA	\$5,000 -	\$7,000	\$17,500 -	\$24,500
3 Type B Intersections	2	EA	\$7,000 -	\$10,000	\$14,000 -	\$20,000
4 Closed-deck Bridge Retrofit	49	LF	\$80 -	\$120	\$3,920 -	\$5,880
5 Miscellaneous Improvements	26,634	LF	\$2 -	\$4	\$53,268 -	\$106,536
<b>Potential Construction Costs</b>					<b>\$434,930 -</b>	<b>\$716,230</b>
6 Initial Improvements	2.0% of Construction Cost				\$8,699 -	\$14,325
7 Master Plan	1.5% of Construction Cost				\$6,524 -	\$10,743
8 Construction Documents/Admin.	7.5% of Construction Cost				\$32,620 -	\$53,717
9 Yearly Management	5.04	MI	\$3,150 -	\$4,500	\$15,890 -	\$22,699

See Appendix A – Scope and Cost Notes for further description of what each item entails.

## Richmond Segment



### Legend

- |  |  |
|--|--|
|  Existing Shared Use Path                 |  Primary Roads               |
|  Potential Shared Use Path                |  Secondary/Residential Roads |
| XYZ Rd (B)  Road Intersection & Type Note |  Powerline                   |
| Creek  Bridge and Feature Name            |  Pipeline                    |
| XYZ Hwy  Underpass and Feature Name       |  Community Boundaries        |
|  NORTH                                    |  Public Green Space          |
|  0 0.5 1 Miles                            |  Other Public Lands          |

**Richmond Segment**

This 1.2-mile segment includes 3 road crossings.

**Preliminary Issues to Address:**

Issue	Action Required
1 Main St. and Division St. Intersection	Explore upgrading signals and crosswalks to accommodate path
2 Y-Connector	Potential surplus ROW, explore alternatives
3 St. Clair County Connection	Explore connection options

**Implementation Checklist:**

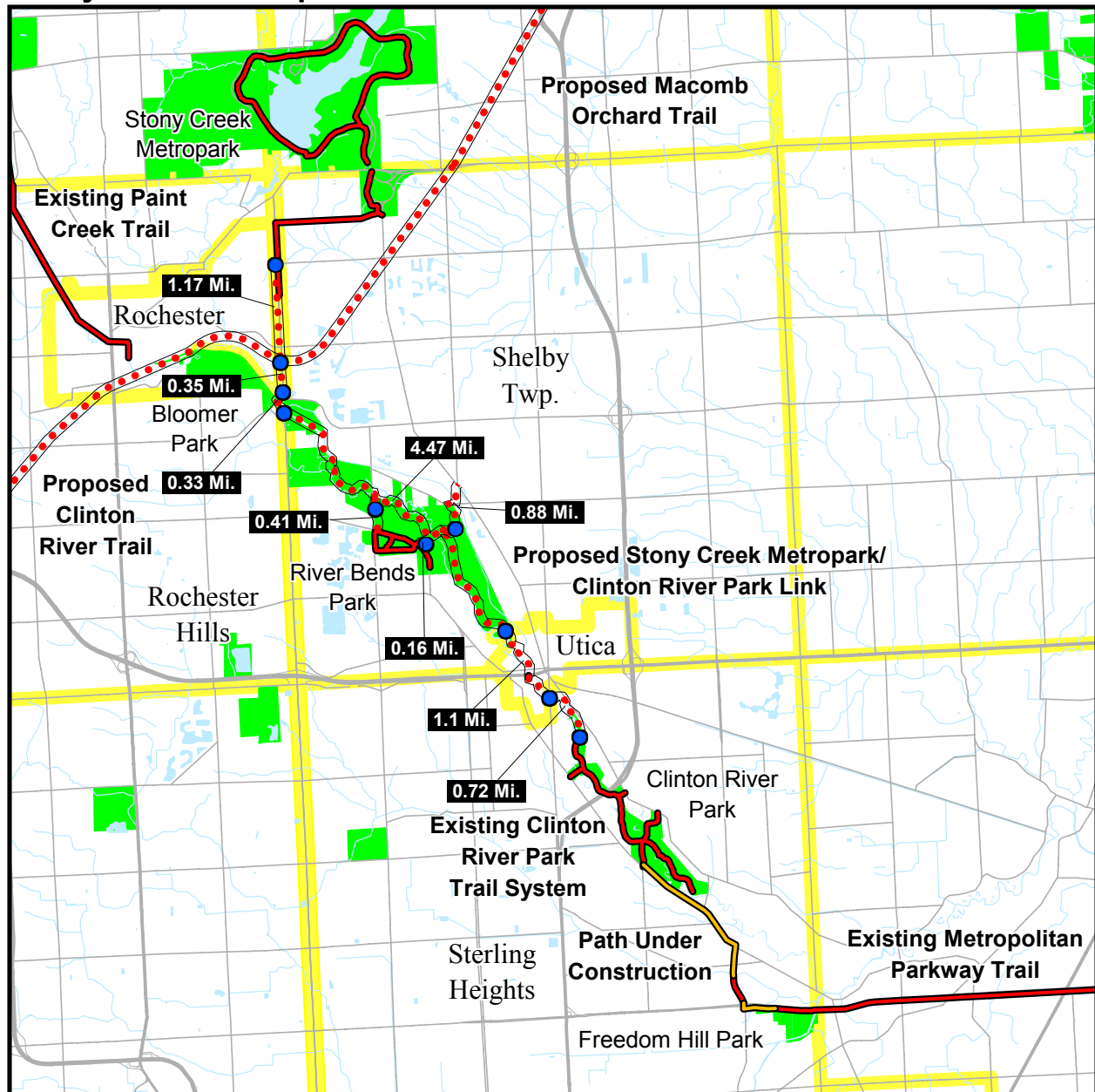
Item	Status/Proposed Action
1 Phase I Environmental Assessment	Complete – Further phases not warranted
2 Recreation Plan Compliance	Unknown – Check and fix if needed
3 Master and Zoning Plan Compliance	Unknown – Check and fix if needed
4 Secure Acquisition Funding	County T-21 Application submitted April 2001
5 Acquire Corridor	Utilize a conservancy to expedite the process
6 Determine Management Approach	Work with the County and/or Trailways Mgmt. Council
7 Secure funding for steps 8, 9, and 10	Develop regional implementation strategy
8 Make Initial Improvements	Includes insurance and basic safety improvements
9 Master Plan/Public Input Process	Work with the County and/or Trailways Mgmt. Council
10 Develop Construction Documents	Work with the County and/or Trailways Mgmt. Council
11 Develop management plan	Work with the County and/or Trailways Mgmt. Council
12 Secure construction funding	Develop regional implementation strategy
13 Solicit bids and select Contractor	Participate in multi-jurisdictional bid package
14 Construct the trail and support facilities	Work with the County and/or Trailways Mgmt. Council
15 Implement management plan	Work with the County and/or Trailways Mgmt. Council

**Scope and Cost Summary:**

Item	Qty.	Unit	Range/Allowance	Item Range
1 Shared Use Path	6,153	LF	\$13 - \$21	\$79,989 - \$129,213
2 Type A Intersections	2	EA	\$5,000 - \$7,000	\$10,000 - \$14,000
3 Type C Intersections	1	EA	\$10,000 - \$20,000	\$10,000 - \$20,000
4 Miscellaneous Improvements	6,153	LF	\$2 - \$4	\$12,306 - \$24,612
<b>Potential Construction Costs</b>				<b>\$112,295 - \$187,825</b>
5 Initial Improvements	2.0% of Construction Cost			\$2,246 - \$3,757
6 Master Plan	1.5% of Construction Cost			\$1,684 - \$2,817
7 Construction Documents/Admin.	7.5% of Construction Cost			\$8,422 - \$14,087
8 Yearly Management	1.17	MI	\$3,150 - \$4,500	\$3,671 - \$5,244

See Appendix A – Scope and Cost Notes for further description of what each item entails.

## Stony Creek Metropark / Clinton River Park Link Overview

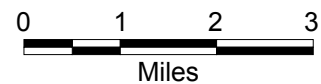


### Legend

- Existing Shared Use Path
- ⋯ Potential Shared Use Path
- Segment Boundary
- 5.67 Mi. Segment Length
- Highways
- Community Boundaries
- Major Parklands



NORTH



### 3. Stony Creek Metropark / Clinton River Park Link

The Stony Creek Metropark / Clinton River Park Link closes the gaps of the greenway that links Metropolitan Beach Metropark and Stony Creek Metropark. Besides completing the historically planned link this trail also connects with a string of local parks and provides a link from the Clinton River Trail/Macomb Orchard Trail to significant open space preserves. The Stony Creek Metropark / Clinton River Park link differs from the preceding two projects in that it has already received some planning work. A route and needed infrastructure have been identified and is actively being refined by the firm of Anderson, Eckstein, and Westrick, Inc. The primary goal with this project is to integrate the planning, and implementation with the Clinton River Trail and the Macomb Orchard Trail.

#### Key Stakeholders

The primary stakeholders in the project are defined by organizations or agencies that may have some level of responsibility in the ownership and/or management of the proposed project. The following are key bodies of authority for each stakeholder:

1. Macomb County Board of Commissioners
2. Macomb County Parks and Recreation Commission
3. Oakland County Office of the Executive and Board of Commissioners
4. Oakland County Parks and Recreation Commission
5. Shelby Township Board of Supervisors
6. The City of Utica Mayor and City Council
7. The City of Sterling Heights Mayor and City Council
8. The City of Rochester Hills Mayor and City Council
9. The City of Rochester Mayor and City Council
10. Macomb County Road Commission
11. Oakland County Road Commission
12. Huron-Clinton Metropolitan Authority

#### Proposed Implementation and Advocacy Steps

An implementation checklist is included with each segment description. The greenway specialist team will focus on the following steps:

1. Work with Anderson, Eckstein, and Westrick, Inc. to refine the project scope, alignment and costs.
2. For Shelby Township and the Cities of Rochester, Rochester Hills, Utica and Sterling Heights, and Macomb and Oakland Counties:
  - A) Review community Master Plans to assure the proposed use is in compliance, work with the communities to make revisions as necessary and formally adopt any modifications.
  - B) Review community Zoning Plans to assure the proposed trail and greenway uses are in compliance, work with the communities to make revisions as necessary, and formally adopt any modifications.
  - C) Review community Recreation Plans to see if the proposed trail is listed and its current priority ranking, work with the communities to make revisions as necessary, formally adopt any modifications, and file any modifications with the State.
  - D) Assist the communities in drafting resolutions of support and passing those resolutions of support.
3. Work with the communities to establish the most appropriate means to coordinate the planning, implementation, and management of the proposed trail system.
4. Assist the communities in the preparation of various grant applications for acquisition, pre-construction, and construction funds.
5. Assist the communities in locating, programming and costing of staging areas.
6. Prepare small-scale maps for use in brochures and prepare large-format maps for display and use in presentations.
7. Prepare a PowerPoint Illustration for use in presentations and make presentations to key potential funders.
8. Contact potential user groups and potentially interested businesses (due to business type or proximity) to inform them of the project, build the advocacy base, and potentially gain project funding. See Appendix D – Other Potential Partners for an initial list of groups and businesses.

**Scope and Cost Summary for Stony Creek Metropark / Clinton River Park Link:**

Item	Qty.	Unit	Range/Allowance		Item Range	
1 Shared Use Path - Roch.	8,053	LF	\$15 -	\$23	\$120,795 -	\$185,219
2 Shared Use Path - R.H.	1,725	LF	\$15 -	\$23	\$25,875 -	\$39,675
3 Shared Use Path - Shelby T.	31,233	LF	\$15 -	\$23	\$468,495 -	\$718,359
4 Shared Use Path - Utica	5,824	LF	\$15 -	\$23	\$87,360 -	\$133,952
5 Shared Use Path - S.H.	3,819	LF	\$15 -	\$23	\$57,285 -	\$87,837
6 Type A Intersections	4	EA	\$5,000 -	\$7,000	\$20,000 -	\$28,000
7 Type C Intersections	1	EA	\$10,000 -	\$20,000	\$10,000 -	\$20,000
8 Existing Bridge Retrofit	2	LS	\$20,000 -	\$50,000	\$40,000 -	\$100,000
9 New Bridges	300	LF	\$1,300 -	\$1,600	\$390,000 -	\$480,000
10 Underpass Allowance	2	EA	\$5,000 -	\$15,000	\$10,000 -	\$30,000
11 Miscellaneous Improvements	50,654	LF	\$2 -	\$4	\$101,308 -	\$202,616
<b>Potential Construction Costs</b>					<b>\$1,331,118 -</b>	<b>\$2,025,658</b>
12 Initial Improvements	2.0% of Construction Cost				\$26,622 -	\$40,513
13 Master Plan	1.5% of Construction Cost				\$19,967 -	\$30,385
14 Construction Doc's/Admin.	7.5% of Construction Cost				\$99,834 -	\$151,924
15 Yearly Management	9.59	MI	\$3,150 -	\$4,500	\$30,220 -	\$43,171

See Appendix A – Scope and Cost Notes for further description of what each item entails.



## Appendix A – Scope and Cost Notes

The costs presented are preliminary in nature and based on typical situations rather than site-specific designs. The costs are subject to change as final project plans and specific designs are developed. All of the costs are in 2001 dollars. As the project will likely be build over a number of years, inflation should be accounted for when determining costs in the future.

### Shared Use Path

Often one of the most difficult decisions to make in the design process is which surface type. For the preliminary cost figures the low end of the range is a 10' wide crushed fines path; the high end is a 12' wide asphalt path. A wider path may be difficult given the constraints of the railroad grade. The decision on path surfacing takes into consideration: desired path uses, environmental issues, aesthetics, maintenance issues, and of course, cost. Two of the adjacent regional paths are fines and two are asphalt.

### Road Intersections

The variety of at surface road crossings encountered on the three projects has been divided into three basic types. The design approach and costs are very similar within each type of intersection. The baseline costs include necessary signs and pavement markings for both the road and path. The cost range reflects such things as the degree of work to be completed, the inclusion of identification and directional signs, and the nature and quality of the improvements.

Type A – A “Type A” Intersection is a two-lane road crossing where only minor or no path realignment is required and a mid-block crossing can be safely implemented.

Type B – A “Type B” Intersection is a two-lane road crossing where the path must be realigned for better sight lines and minimizing the crossing distance. A “Type B” Intersection will likely require grading and drainage improvements. Most “Type B” Intersections can be realigned within the existing ROW but some may require additional ROW to establish a safe alignment.

Type C – A “Type C” Intersection is an extremely complex intersection due to circumstances such as high volumes of traffic, poor sight distance, multiple vehicle lanes, transverse alignment to a road intersection, complex-turning movements, and adjacency to a signalized intersection. Each “Type C” intersection will require detailed design study, significant realignment, and often a substantial investment.

### Asphalt Paths vs. Fines Paths at Intersections

The treatment at intersections is very similar for both an asphalt path and a fines path. The only exception is that if the path is surfaced in fines, a paved apron of a minimum 20 feet should be included. This apron is to assist in stopping and to add a visual cue that is accomplished with pavement markings on an asphalt path. An apron also minimizes loose fines on the roadway where an unexpected loss in traction could be dangerous.

### Potential Signal or Overpass

Some intersections may require a signalized mid-block pedestrian crosswalk or an overpass due to the high volume and speed of traffic, marginal traffic breaks, and distance to existing traffic signals. As there are implications to traffic flow for the mid-block crosswalks as well as significant costs and use issues with overpasses, alternatives to these solutions will be studied.

**Bridges**

While the cost of retrofitting or replacing a bridge can be generally addressed at this stage, for those bridges that have a steel component, there is one significant potential cost that has not been addressed. The major issue is the treating of the existing steel beams on bridges. Oftentimes the paint on these bridges contains lead and any removal of this paint when over a water body needs to be in a completely encased environment. The cost can be exorbitant and the removal of the beams to be cleaned and painted in a controlled environment is not unheard of. Communities that have bridges with steel components will be encouraged to explore this issue further as it has the potential to significantly impact the project cost. Three classes of bridges have been identified, a new bridge, a closed-deck bridge, and an open-deck bridge. The following briefly describes the approach to each.

New Bridge – In cases where a bridge no longer exists the likely solution is a pre-fabricated truss bridge. The cost includes cast in place concrete abutments and the purchase, delivery, and placement of the pre-fabricated structure.

Closed-deck Bridge Retrofit – These bridges have 8 to 10 inches of ballast over a solid wood decking. The simplest and most cost effective approach is to improve the base and pave over the ballast as with the remainder of the path. Guardrails are retrofitted to the sides of the structure and on the approaches.

Open-deck Bridge Retrofit – These bridges have timbers with 4 to 6 inch gaps running perpendicular to the route of the path. There are few ways to deck the surface and install guardrails on the sides and on the approach.

**Staging Area Improvements**

At a minimum, staging areas should offer parking with safe access to both the roadway and path. Facilities should provide, or be located near, public restroom facilities. A portable toilet or vault toilet is often utilized, depending on the facility's proximity to sewer service. Staging areas located near a town or commercial center provide opportunities for local business to provide provisions for trail users. Locations that take advantage of shared parking – where the parking demands of the existing use complement the typical demands of the path users are also advantageous from a cost and environmental standpoint.

**Miscellaneous Improvements**

Beyond improvements to the path, staging areas, road intersections, bridges, and underpasses, a number of additional improvements may be warranted or desirable. Warranted improvements may include safety railings where the adjacent side slope is excessive, drainage improvements, and access control issues. Elective improvements may include minor rest areas, mile markers, interpretive signage, and short spurs to adjacent properties.

**Master Plan and Construction Document / Administration Fees**

The Master Plan is typically public input driven. Decisions are made on issues such as those mentioned above, and the scope, nature, arrangements, and costs of the improvements are defined. A solid master plan is valuable in obtaining funds for construction. The cost of a Master Plan (around 1.5% of the construction cost) will typically more than pay for itself by thoroughly identifying and addressing issues at an early and appropriate stage. Construction Documents are detailed drawings and specifications that take the Master Plan's intent into a package that a contractor may bid upon and use to construct the facility. Construction Administration is the oversight of the construction process and management of issues that arise during construction.

**Initial Improvements**

After the property is acquired and before the project is completed, basic safety and liability issues must be addressed. Some organizations may need to purchase a special liability insurance policy for the property. Whether the facility will be open to the public or not, basic signage and safety measures must be implemented. While open paths tend to be self-policing, a closed corridor is ripe for vandalism and dumping abuses. Therefore policing requirements for a closed facility are likely to be greater than for an open facility.

## Appendix B – Primary Contacts

### Contacts that apply to all three projects:

#### MDNR Forest Management Division

Phil Wells, Trailways Program Manager  
PO Box 30028  
Lansing, MI 48909??  
517-335-3038  
Fax 517-373-2443  
wellsp@state.mi.us

#### Michigan Department of Transportation

Michael Eberlein, Non-Motorized Coordinator  
PO Box 30050  
Lansing, MI 48909  
517-335-2823  
Fax: 517-373-9255  
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#### MDOT Metro Region Office

Ernie Savas, Region Engineer,  
savase@mdot.state.mi.us  
18101 W. Nine Mile Rd.  
Southfield, MI 48075  
248-483-5100  
Fax: 248-569-3103

#### The Greenway Collaborative, Inc.

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214 Nickels Arcade  
Ann Arbor, MI 48104-2410  
734-668-8848  
Fax 734-668-8820  
normancox@greenwaycollab.com

#### Canadian National Railroad

Bob Malone  
P.O. Box 300  
Troy, MI 48007  
888-888-5909

Tom Wrigley

#### Clinton River Watershed Council

1970 E. Auburn Rd.  
Rochester Hills, MI 48307-4803  
248-853-9580  
Fax: 248-853-0486  
director@crwc.org  
www.crwc.org

Jessica Pitelka Opfer, Watershed Planner

#### Huron-Clinton Metropolitan Authority

Dan Duncan, Chief Planner  
13000 High Ridge Dr.  
Brighton, MI 48116  
810-227-2757  
Fax: 810-227-8610

#### SEMCOG

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535 Griswold Street, Suite 300  
Detroit, MI 48226  
313-961-4266  
Fax: 313-961-4869  
bourgeau@semcog.org

#### Rails-to-Trails Conservancy, Michigan Field Office

Nancy Krupiarz, Director  
416 South Cedar, Suite C  
Lansing, MI 48912  
517-485-6022  
Fax: 517-485-9181  
rtcncancy@transact.org

#### Todd Scott

2721 Ferncliff  
Royal Oak, MI 48073  
248-288-3753  
allyearegear@home.com

#### Trust for Public Land

Sean Hamilton  
420 N. Fifth St., Suite 865  
Minneapolis, MN  
734-536-8441

**Clinton River Trail Contacts:**

Oakland County Parks

Ralph Richard, Executive Officer  
Pecky D. Lewis, Jr., Chair, Parks and Recreation Board  
2800 Watkins Lake Rd.  
Waterford, MI 48328-1917  
248-858-0909

Oakland County Planning and Economic Development Services

Larry Falardeau, Principal Planner  
1200 N. Telegraph  
Dept. 412  
Pontiac, MI 48341  
248-858-5438  
falardeaul@co.oakland.mi.us

Friends of Clinton River Trail

Dan Keifer  
719 S. Fieldstone Dr.  
Rochester Hills MI 48309  
Hm: 248-652-1434, Wk: 248-740-8866  
Fax: 248-740-9025  
Dckeifer@aol.com

City of Auburn Hills

Tom McMillan, Mayor  
1827 North Squirrel Rd.  
Auburn Hills, MI 48326  
248-370-9353

Brian Marzolf, Parks & Recreation Director

City of Pontiac

Mahdu Oberoi, Department of Community Development  
51000 Woodward Ave.  
Pontiac MI 48342

City of Rochester Hills

Pat Sommerville, Mayor  
Lynda Davis, Assistant to the Mayor  
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Lois Golden, City Council  
248-373-2427, loisgolden@usa.net

Mike Hartner Parks & Forestry Director  
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Oakland County Administration

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Frank Millard, Jr., Chair, Board of Commissioners  
1200 N. Telegraph Road  
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fax: 248-858-1572

Road Commission of Oakland County

Larry P. Crake, Chair  
Brent O. Bair, Managing Director  
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248-858-4804  
dcsmail@rcoc.org

Bloomfield Township

Dave Payne, Supervisor  
4200 Telegraph Road  
Bloomfield Hills, MI 48303

City of Sylvan Lake

John Martin, City Manager  
1820 Inverness  
Sylvan Lake MI 48320  
248-682-1440

City of Rochester

David Katulic, Mayor  
400 Sixth St.  
Rochester, MI 48307  
248-651-9061

Bruce Austin, Parks & Recreation Director

West Bloomfield Township

Laurie Buchman, Chair  
West Bloomfield Parks and Recreation  
4550 Walnut Lake Rd.  
West Bloomfield, MI  
248-738-2500

Dan Navarre, Parks and Recreation Director

Oakland Land Conservancy

Donna Folland  
798 West Gunn Rd.  
Rochester, MI 48306  
248-652-4903  
Fax: 248-652-4903  
folland@wwnet.com

Paint Creek Trailways Commission

Bill Stark, Trailway Manager  
4393 Collins Rd.  
Rochester, MI 48306  
(248) 651-9260  
  
John Makris, Attorney  
248-528-1811, Fax: 248-524-0973

**Macomb Orchard Trail Contacts:**

Macomb County Commission  
One South Main Street, 9th. Floor  
Mount Clemens, Michigan 48043  
810-469-5125

Macomb County Road Commission  
156 Mallow Drive  
Mount Clemens, Michigan 48043  
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Macomb County Parks & Recreation Commission  
Anthony Casasanta, Park Administrator  
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P.O. Box 578 / 23121 E. Main St.  
Armada, MI 48005  
810-784-5200

Bruce Township  
223 East Gates Street  
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810-752-4585

Gale Barr  
76585 Coon Creek Rd  
Armada, MI 448005  
810-784-8137

City of Richmond  
Jon Moore, Assistant City Manger  
68225 Main Street  
Richmond, MI 48062  
810-727-7571  
Fax: 810-727-2489

Richmond Township  
34900 School Section  
Richmond, MI 48062  
810-727-8998

Shelby Township  
Joe Yongblood, Assistant Director  
52700 Van Dyke  
Shelby Township, MI 48316  
810-731-5154

Village of Armada  
74274 Burk  
Armada, MI 48005  
810-784-9151

Department of Parks, Recreation and Maint.  
810-731-0300 Fax: 810-726-7228  
sblprm@libcoop.net

Washington Township  
Cara Russell, Washington Township Parks & Rec.  
361 Morton  
Romeo, MI 48065  
810-786-0010

Village of Romeo  
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810-752-4111

**Stony Creek/North Clinton River Park Linkage Contacts:**

Macomb County Commission

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Mount Clemens, Michigan 48043  
810-469-5125

Macomb County Road Commission

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Mount Clemens, Michigan 48043  
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Macomb County Parks & Recreation Commission

Anthony Casasanta, Park Administrator  
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Anderson, Eckstein and Westrick, Inc.

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Oakland County Parks

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Oakland County Administration

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Oakland County Planning and Economic Development Services

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Road Commission of Oakland County

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Brent O. Bair, Managing Director  
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City of Sterling Heights

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City of Utica

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810-739-1600

Steve M. Duchane, City Manager  
sduchane@sterling-heights.net

Susan C. Kebbe, Parks & Recreation Director  
810-446-2700

Shelby Township

52700 Van Dyke  
Shelby Township, MI 48316  
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Congressman David E. Bonior's Office

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Mount Clemens, MI 48043  
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christine.koch@mail.house.gov

Department of Parks, Recreation and Maint.  
810-731-0300 Fax: 810-726-7228  
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City of Rochester

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400 Sixth St.  
Rochester, MI  
248-651-9061

Bruce Austin, Parks & Recreation Director

City of Rochester Hills

Pat Sommerville, Mayor  
Lynda Davis, Assistant to the Mayor  
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mayorsoffice@rochesterhills.org

Lois Golden, City Council  
248-373-2427, loisgolden@usa.net

Mike Hartner Parks & Forestry Director  
248-656-4673



## Appendix C - Potential Funding Sources

Detailed information on a range of potential funding sources is available in *A Vision for Southeast Michigan*, by Rails-to-Trails Conservancy 1998. The following is a summary table of some of the most significant funds that communities may utilize for the three projects. The competition for these funds is stiff, as these projects receive many more quality applications each year than funds are available.

Source	Application Due Dates	Amounts	Match Requirements	Acquisition	Master Plans	Construction Documents	Construction	Management/Maintenance
Transportation Enhancement Funds (TEA-21) Administered by MDOT Approx. \$22 million a year statewide	Nov.	No defined range, occasionally projects up to \$1,000,000 have been funded.	20%	●			●	
Mich. Natural Resources Trust Fund Administered by MDNR Approx. \$24 million a year statewide	Apr. & Aug.	\$15,000-500,000 for development, no maximum for acquisition	25%	●			●	
GreenWays Initiative Administered by Community Foundation for Southeastern Michigan. Approx. \$24 million over 5 years regionally.	June & Dec.	\$5,000 to \$100,000 for pre-development.  \$25,000 to \$1,000,000 for acquisition and development	66%	●	●	●	●	
Local Sources including special bond issues, special millages, and general fund sources.	N/A	As funds allow	N/A	●	●	●	●	●

If the proposed shared use paths were to be MDNR facilities, two additional funding sources might be available, the National Recreational Trails Funding Program and the Recreation Improvement Fund. While in theory these sources are available for non-MDNR facilities the funds are typically utilized on MDNR's existing extensive trail network.

The most difficult aspects of a project to fund are the pre-development (pre-acquisition research, master plans and construction documents) and the management and maintenance of the facility. These are all critical steps that should not be glossed over. Prospective funders of acquisition and development are interested in a community's commitment and ability to appropriately maintain their investment. Some of the most successful community greenway efforts have had millages that specifically provide a regular source of income for greenway projects.

Communities should also recognize that there might be a five-month to a year gap between the time the applications are turned in and when money is available for a project. Also, communities may not get the money all at once. The Transportation Enhancement Program and the Michigan Natural Resources Trust Fund operate on a reimbursement basis, so communities need to be able to front a portion of the construction costs and the entire cost of acquisition. Also, funds spent on a project prior to the initiation of a funding agreement are generally not reimbursable. Lastly, the effort to administer these funds should not be underestimated.

## Appendix D – Other Potential Partners

### User Groups:

Michigan Mountain Biking Association  
 Roger Dyjak, Executive Director,  
 217 Highland Rd. #268  
 Waterford, MI 48328-2165  
 TheMMBA@Yahoo.com  
 www.mmba.org

Clinton River Riders  
 36558 Moravian  
 Clinton Twp., MI 48035  
<http://www.lmb.org/crr/>

Wolverine Sports Club  
 P.O. Box 63  
 Royal Oak, MI 48068  
<http://www.lmb.org/wsc/>

Wolcott Mill Trail Association  
 P.J. Tomlian  
 77017 Omo Road  
 Armada, MI 48005  
 810-784-9811 chudt@aol.com

Stony Creek Running Club  
 810-468-8622

Wolcott Mill Equestrian Group  
 810-749-9153

### Retail:

Hanson's Running Shop  
 8409 Hall Rd (M-59), Utica, MI  
 810-323-9683  
 2733 University (Auburn Crossing Plaza),  
 Auburn Hills, MI,  
 248-475-9944  
 hansons@addr.com  
<http://www.hansons-running.com>

Running Gear (shop)  
 125 S. Livernois Rd.  
 Rochester Hills, MI 48307-1837  
 248-656-8130  
[runninggear@runmichigan.com](mailto:runninggear@runmichigan.com)  
<http://www.runmichigan.com/runninggear/>

Hamilton's Bicycles  
 69333 N Main St  
 Richmond, MI 48062  
 810-727-5140

Stoney Creek Schwinn Cycling  
 58235 Van Dyke Rd  
 Washington, MI  
 810-781-4451

Hellebuyck's Bike & Mower Ctr  
 52881 Van Dyke Ave  
 Shelby Township, MI  
 810-739-9620

Main Street Bicycles  
 112 S Main St  
 Romeo, MI  
 810-336-1117

Wahu Bicycle Co  
 116 W 2nd St  
 Rochester, MI  
 248-652-6376

Klm Bike & Fitness  
 2680 S Rochester Rd  
 Rochester, MI  
 248-299-0456

Scarlett's Schwinn Bike  
 203 N Perry St  
 Pontiac, MI  
 248-333-7843

Prestige Cycles  
 36558 Moravian Dr  
 Clinton Township, MI  
 810-792-4040

Antoons Bicycles  
 13823 19 Mile Road  
 Sterling Heights, MI  
 810-247-9240

Planed Rock Climbing Gym  
 34 Rapid St  
 Pontiac, MI 48342  
 248-334-3904  
[www.planet-rock.com](http://www.planet-rock.com)