



ACME TOWNSHIP PARKS & TRAILS MEETING
ACME TOWNSHIP HALL
6042 Acme Road, Williamsburg MI 49690
December 21, 2018 8:30 a.m.

ROLL CALL:**Committee:**

x	Feringa	x	Heflin	x	Heffner	excused	Jenema
excused	Smith	x	Timmins	x	Wentzloff		
x	Kushman	x	Klingelsmith				
x	Winter	x	Donn				

Advisory:**Staff:****A. PUBLIC COMMENT:**

Evart Stewart, 5751 US 1 North, stated there has been a problem with people parking in the Bay Villa Condominiums lot and using their dock. He has concerns with the use of the concrete building and the parking lot at the south end noted in the Phase III plan. He also questioned the plan for a second set of restrooms when there are already bathrooms there.

Brian Kelly voiced his concerns with the park plan construction review. (Submitted written comments to be added to packet)

Public comment closed at 8:50 am

B. APPROVAL OF AGENDA: Motion by Timmins to approve the agenda with addition to D. Correspondence 1. Email sent from Blaine Wittkopp, seconded by Heffner. Motion carries.**C. INQUIRY AS TO CONFLICTS OF INTEREST: None****D. CORRESPONDENCE:**

1. Email sent from Blaine Wittkopp on 2019-2023 Parks and Recreation Plan

E. ACTION:

1. Approve Draft Parks & Trails Minutes 11.16.18. Motion by Timmins to approve the minutes from 11.16.18, seconded by Heffner. Motion carries.
2. Approve Draft Parks & Trails Minutes 11.26.18. Motion by Heflin to approve the minutes from 11.26.18, seconded by Timmins. Motion carries.

F. OLD BUSINESS:**1. DRAFT Parks & Recreation Plan 2019-2023**

- a. Review draft plan and public comment-Winter explained the draft needed to be reviewed and edits given to Carrie Klingelsmith to incorporate in a final draft. Next step will be to send the plan to the Township Board to hold a public hearing at their January 8, 2019 meeting. The committee went over the plan and discussed the changes.

Public Comment opened at 9:50 am - Brian Kelly felt the number of responses from the survey was not enough to rely on for valid results. He noted there was the possibility it could have been completed more than once by the same individual. (His written comments were submitted to be added to the packet)

Feringa suggested copies of public comments on this draft plan to be given to the board to review.

Motion by Timmins to approve the Draft Parks & Recreation Plan 2019-2023 with changes incorporated, to be sent to the Township Board to hold a public hearing at their January 8, 2019 meeting, seconded by Wentzloff. Motion carries.

2. Trail Updates

- a. **TVC 2 CHX (memo enclosed)**
- b. **Acme Connector Trail-** Kushman informed there is availability on January 22, 23 & 24, to hold at least two meetings for an adjacent property owner's outreach with the consultants, Networks Northwest, and TART Trails to go through the proposed routes between Acme and Elk Rapids. All the engineering, public feedback, and Stakeholders comments have been compiled for the meeting. They will be going back to adjacent land owners to have them voiced their concerns. There are 600 mailings going out right after the holidays to land owners, to notify them and get an assessment. The larger trail project north of Elk Rapids will begin the selection of a consultant by using an alternate method, more of an interview process rather than sending out bids. This will be for the engineering between Acme and Elk Rapids and to move the preliminary design to final. The timeline is to have a consultant hired and onboard by March.
 - i. **Engineering Bid Review and Recommendation**
Winter informed five bids have been submitted for the Acme connector trail engineering. The committee needs to review the bids and give a recommendation to the township board. Feringa created a reviewer cost sheet showing a breakdown on pricing from each company and his ranking for consideration.

Both Winter and Kushman felt Beckett & Raeder would be a good company to use because of their planning experience and familiarity with Acme.

The census was to go with Beckett & Raeder with OHM Advisors as an alternative. Their costs were both within the budget and they have the experience that is needed.

Motion by Wentzloff to recommend Beckett & Raeder with the alternative of OHM Advisors for the RFP engineering on the connector trail, seconded by Timmins. Motion carries.

Kushman informed Holiday Inn returned the signed license agreement for the trail.

3. Bayside Park

- a. **Bench Adoption Update-** Winter informed final two benches have been adopted, one was by CCat and it will have two plaques, one for Ron Harding and the other for Bob Carstens. They will be installed in the spring.
- b. **Garden Adoption Option-** Winter said there will be a garden in the park with a plaque for Eric Takayama. It was adopted by CCat and the board approved to move ahead with the plants.
- c. **Swing Adoption Prices and Color Options-** Winter spoke with Miracle Midwest the company who has the Wabash Valley Swing that Linda Kaleita had seen and recommended. They sent quotes for one swing and two. The pricing gave the choice of either a 4' or 6' bench, with the option of using square or round posts. The committee was interested in two 6' benches using the colors of grey posts with dark brown seats.

Heffner mentioned there is a park in Glen Arbor that was nicely done and has swings. He would like to postpone the decision until next month's meeting to make a trip to view their playground equipment. He will also contact the park to get the name of the company they ordered the swings from.

- d. **Playground Color Options-** Jean Aukerman showed color samples of playground equipment and provided a recap of the Gosling-Czubak recommendation list consisting of selected firms and color themes. The committee discussed the different combinations with the colors of dune and acorn as their first choices. The main piece of equipment the Eclipse Climber arch, was offered by the selling company in the color of limon (green shade) at a discount. The committee discussed going with the limon piece, a black net and the connectors in carbon grey. Heffner felt limon was not the right color to use and they should stay with neutrals. The committee decided the core piece in limon was not the choice color but saved the township money and it would work for the park.

Motion by Timmins to recommend to the board the discounted limon for the net climber with carbon for the connectors, a black net and using dune and acorn for the future color palette, seconded by Wentzloff. Motion carried by four (Timmins, Wentzloff, Feringa, Heflin), with one nay by Heffner.

4. **Park System Signage:** No report
5. **Art In The Park:** No report
6. **Bayside Park Dedication Ceremony:** Winter informed a special committee has been formed to help plan the event. A date has been set for Saturday, May 18, 2019 from noon to 4 pm. He is researching costs for a tent to have announcements, a PA system, and porta john rentals. He will give the board the costs for approval. Feringa will contact GTR to see if they will assist in shuttling people back and forth from an alternate parking location near the park.

G. NEW BUSINESS:

1. **Approve 2019 Meeting Calendar**

Motion by Wentzloff to approve 2019 Meeting Calendar as present, seconded by Timmins. Motion carries.

H. PUBLIC COMMENT: None

ADJOURN: Motion by Timmins to adjourn, seconded by Wentzloff. Motion carries, meeting adjourned at 10:41 am



ACME TOWNSHIP PARKS & TRAILS MEETING
ACME TOWNSHIP HALL
6042 Acme Road, Williamsburg MI 49690
December 21, 2018 8:30 a.m.

ROLL CALL:

Committee:

	Feringa		Heflin		Heffner		Jenema
	Smith		Timmins		Wentzloff		
	Kushman		Klingelsmith				
	Winter						

Advisory:

Staff:

A. PUBLIC COMMENT:

B. APPROVAL OF AGENDA:

C. INQUIRY AS TO CONFLICTS OF INTEREST:

D. CORRESPONDENCE:

E. ACTION:

1. Approve Draft Parks & Trails Minutes 11.16.18
2. Approve Draft Parks & Trails Minutes 11.26.18

F. OLD BUSINESS:

1. DRAFT Parks & Recreation Plan 2019-2023
 - a. Review draft plan and public comment
 - b. *Action Request: Recommend incorporating any necessary edits into the DRAFT Parks & Recreation Plan 2019 – 2023, and that the Township Board hold a public hearing at their January 8, 2019 meeting to consider adoption of the plan.*
2. Trail Updates
 - a. TVC 2 CHX (memo enclosed)
 - b. Acme Connector Trail
 - i. Engineering Bid Review and Recommendation
 - ii. *Action Requested: Upon review, select a firm and alternate, and recommend approval to the Board*
3. Bayside Park
 - a. Bench Adoption Update
 - b. Garden Adoption Option
 - c. Swing Adoption Prices and Color Options
 - d. Playground Color Options
4. Park System Signage
5. Art In The Park
6. Bayside Park Dedication Ceremony

G. NEW BUSINESS:

1. Approve 2019 Meeting Calendar

H. PUBLIC COMMENT

ADJOURN:

Shawn Winter

From: Sharon Wittkopp <bscmwittkopp@sbcglobal.net>
Sent: Wednesday, December 19, 2018 10:06 PM
To: Shawn Winter
Subject: 2019-2023 Parks and Recreation Plan

Shawn,

My name is Blaine Wittkopp. My wife Sharon and I are currently owners at Bay Villa Condominiums.

I am writing to you today to comment on the proposed 2019-2023 Parks and Recreation Plan.

In the future plans section, it shows that a third parking lot is to be built by the Butterfly Garden with access from US 31.

It also shows that a bath-house is planned for the existing concrete building on the south end of the park.

During this park project, we have asked lots of questions about what the use of the land would be.

The Township Supervisor stated that the concrete building would only be used for storage.

He also stated that the entrance by the Butterfly park would be closed.

We have had several issues with park users concerning our property.

This includes parking vehicles in our lot, using our dock and leaving trash.

We do not want the concrete building converted into a bath-house.

A new parking lot with an entrance off US 31 will create more opportunities for accidents.

We believe that both these proposed projects will not benefit us as owners next to the park.

You have created two parking lots with a safe entrance to M72 and US 31.

Please don't take away that safety aspect by creating a new entrance for parking by the Butterfly park.

Thanks for your consideration,

Blaine Wittkopp

5751 US 31 North #1

To: Acme Parks & Trails committee
From: Brian Kelley, Acme Township
Friday December 21, 2018

Subject: Park Master Plan and Community Survey

Good Morning,

Thank you so much for your time and service.

I would like to talk about the survey and draft parks master plan.

Zoning Administrator Shawn Winter will tell you - very emphatically - that the recent community survey had limitations to save money (because this is a master plan update, and not a major new version). I greatly appreciate the need for frugality. The survey was done online, without an expert. And as such, it has significant limitations. However, the Parks Master Plan draft does not disclose those important facts. It holds the result as comparable to our 2012 survey, which was done by a professional researcher at Northwestern Michigan College, who signed her results.

The Parks Master Plan should disclose those limitations. And, as a consequence the following:

- A survey is by definition not statistically valid until it is proven to be statistically valid.
- Only 125 responses were received. That is an extremely low response rate. It creates a high margin of error. The margin of error has not been reported or analyzed as part of the result.
- Anyone could have easily manipulated the results due to the online methodology.
- The small number of responses also made it easy to manipulate the results.
- No effort was made to detect manipulation, though numerous techniques are available.
- Anyone from anywhere could take the survey and influence the results.
- No recognized expert has validated the results, or even given a professional opinion on the validity.
- No analysis has been performed to compare these results with 2012
- Some survey comments reported problems with the survey
- During the planning phase, it was suggested that a question about short term rentals be included. It was decided that the question was so controversial that it would encourage repeat survey responses to skew the results. That was yet another indication that this survey is not to be heavily relied upon.

As a result of those limitations, this survey should be strongly disclaimed in the Master

Plan. Unless those limitations can be resolved, it is not reasonable to use it to justify new priorities or initiatives. That is especially true when the topic is raising taxes, or starting a new phase and type of park property acquisition.

One section of the draft plan says "online surveys are designed to gather honest feedback from the citizens". Honest feedback is subjective, and it has been recognized that this survey was not capable of gathering "honest feedback"

Another statement says "most all of the same questions were used for both surveys to compare the results over the last five years." I disagree with that. There were significant changes to the questions. Specific previous questions were dropped, even after citizens and Planning Commissioners asked that they be retained.

Goal 4 in the plan - Increase arts and cultural events in the park system.

This goal was proposed before the survey was conducted, specifically art in the parks. I love and support art. However, the survey results do not support it. Oddly, it remains a goal in the plan, in opposition to the sentiment in the survey. There was a question very specifically about this:

"Acme Township should adopt a plan to exhibit public art installations and cultural events in township parks"

Only 19% of respondents supported that initiative. Why is that low support not disclosed in the master plan draft? I don't see how it can be a goal in the master plan with that lack of support.

~~X % of respondents said~~

95% of respondents rated "Water quality for streams, watersheds, and East Bay" as a Medium or High priority. However, that is not reflected in the draft parks plan. Our bay side parks play an important role in protecting our water quality. Specifically, recent development has extensively utilized non-permeable surfaces where permeable surfaces were an option. Trees also play a critical role in protecting water quality. The community has spoken. Future park development should prioritize the use of permeable surfaces and preservation of trees. The plan should reflect this.

Inland park space acquisition has been prioritized in the draft plan. However, the

survey responses do not support that. The responses do support further shore park acquisition. This contradiction should be resolved in the plan.

Thank you,
Brian Kelley

ACME TOWNSHIP PARKS & TRAILS MEETING
ACME TOWNSHIP HALL
6042 Acme Road, Williamsburg MI 49690
November 16, 2018 8:30 a.m.

ROLL CALL:

Committee:	excused	Feringa	x	Heflin	x	Heffner	x	Jenema
	x	Smith	x	Timmins	x	Wentzloff		
Advisory:	x	Kushman	x	Klingelsmith				
Staff:	x	Winter						

- A. **PUBLIC COMMENT:** Rachelle Babcock- 4261 Bartlett Rd. Williamsburg, 49690 Wanted to talk to the committee about CCat sponsoring a memorial in the park for Ron Harding, Erick Takayama and Bob Carstens. Added it under new business
- B. **APPROVAL OF AGENDA:** Timmins, 2nd. Heflin. Motion to approve the agenda with the addition of Old business 1)b. Bayside park plantings, Old business 7) playground equipment. New business 2) upcoming schedule and new business 3) CCAT memorial for Bob, Ron and Erick. Motion carries
- C. **INQUIRY AS TO CONFLICTS OF INTEREST:** none
- D. **CORRESPONDENCE:**
- E. **ACTION:**
1. Approve Draft Parks & Trails Minutes 10.19.18 Motion to approve the minutes from 10/19/18 Heffner, seconded by Timmins motion carries
- F. **OLD BUSINESS:**
1. **Bayside Park**
 - a. **Regulatory Signage-** Winter addressed, Signplicity got the townships bid. Post will be powder coated to match the parks other elements. Not sure when the signs are going in, may still be this fall depending on weather.
Winter brought up the Acme logo from a design that was already put together. Amy had shown it to the board to think about. The board will talk about the logo in December.
 - b. **Bayside park plantings-** Discussed prices of plantings that Jim and Ryan had gathered from a couple different places. Quote Ryan got was \$1400 the plants Ryan priced would could larger than what Jim got quoted.
Heffner talked to the former president of the friendly garden club. They give grants from \$300-\$3000. The grants are only for what is invoiced, won't pay for labor. Grants are due by Aug. 31st. 2019.
Discussed taking the park plan and breaking it down so that Ryan and the sweetwater garden club would each know what areas they were responsible for caring for.
 2. **Park Swing Donation** – Jenema took this issue to the board, they are fine with the swing donation. Winter contacted Wabash about the swings they sent color samples for us to match up. Winter talked about taking them down to the park to match colors. Miracle Midwest is Wabashs Michigan distributor, Winter will be contacting them to talk about matching colors we have in the park. Discussed colors. Jenema asked if the committee thought the swing should be matched to the playground equipment or the benches. Discussion followed. Heffner brought up the worry that custom color matching would impact the cost. Slates will be determined when the playground color is determined.
Jenema brought up the playground in this discussion because it is all tied together. Kevin had

always had the limon in the plan for the playground. As well as leaf and brown. Committee discussed how the colors looked different in the catalog as oppose to the plan. Discussed what would happen to the warranty if the playground equipment was powder coated. It was decided that it would most likely negatively impact the warranty.

- a. **Color Samples** Requesting to see color samples of limon, brown(AC, and AE),beige, cool matte, dune and leaf green. For the mating color samples will be brown, beige and gray.

3. **Trail Update**

- a. **Acme Connector Trail** - Acme connector trail RFP was approved by the board at their last meeting and released for bid. Sent it out to 10 firms, will run in the paper, also visible on Acmes website and TART's website. The proposals will be due by noon on Dec. 13th. Kushman gave update. The language for the license with the Holiday Inn was approved, it has been sent back to Holiday Inn's board.

- i. **RFP Update**

- b. **TVC 2 CHX Trail** (Kushman)- short term solution to utilize the Acme connector trail and utilize the sidewalk on M72. Eventually would like to utilize Bunker Hill Rd. crossing over to the west and going up the west side.

- i. **Engineering Project Update**- North of M-72 met with local agency group meeting, and a stakeholder advisory group, Jenema and Winter represented Acme Township. The engineers have identified a preferred alignment, which they have a target of releasing to the public with maps and other info the first week of Dec. Discussion followed.

Kushman touched on the next stage of trail from Elk Rapids up to Charlevoix through fisherman's island state park. Next public open house is possibly in January.

Winter touched on the trails in Yuba and Wintergreen woods, trails are ready to open. The conservancy and township are discussing signage.

4. **Park System Signage** nothing to report

5. **Art In The Park** nothing to report

6. **Bayside Park Dedication Ceremony** leaving on the agenda

7. **Playground** - discussed playground color that was spec'd by Gosling and czubak.

G. **NEW BUSINESS:**

1. **Parks Master Plan Update** (Klingelsmith)- Discussed photos that are on the master plan. Winter will be sending Carrie a copy of the drone video to see if she can pull off better pictures.

Klingelsmith went over all the new information that needs to be included now with the master plan. She also covered the basic demographics of the township and how they have changed. Maple bay park plan can not be included at the time. Went over the townships goals and objectives and how they changed. Went over the timeline, Carrie needs feedback no later than the 28th., earlier would be better. Board will need to pass a resolution to adopt the plan.

Heffner brought up adding the goal of a circular trail at Yuba natural area, committee agreed. Winter is providing basic images of the loop, He will reach out to Steve and Luke at the conservancy to see if they have more updated maps. Discussion followed. Special park and trails meeting will be Monday 11/26 at 4:30.

2. **Upcoming schedule** Dec. 1st.-30th. Public comment period, Dec. 13th. The RFP will be read out at the township, Dec. 21st. The committee will make a formal recommendation to the board for the parks plan and recommendation for the firm for the RFP. Jan 8th. Board has a regular board meeting that is when the public hearing for the parks master plan will take place as well as announcing the choice for the firm who gets the bid for the RFP.

3. **Ccat memorial** - Discussed the different memorial ideas, benches, another matching swing like the other donated swing. Plantings. Winter was able to provide Rachelle with some prices to take back to Ccat for them to make a decision on. Rachelle with be back in touch with Winter once Ccat has made a choice.

H. **PUBLIC COMMENT none**

If you are planning to attend and are physically challenged, requiring any special assistance, please notify Cathy Dye, Clerk, within 24 hours of the meeting at 938-1350.

ADJOURN: Motion to adjourn Timmins 2nd. By Smith.
Motion carries



**ACME TOWNSHIP PARKS & TRAILS
SPECIAL MEETING
ACME TOWNSHIP HALL
6042 Acme Road, Williamsburg MI 49690
November 26, 2018 4:30 p.m.**

ROLL CALL:

Committee:

X	Feringa	X	Heflin	X	Heffner	X	Jenema
X	Smith	EX	Timmins	X	Wentzloff		
AB	Kushman	AB	Klingelsmith				
X	Winter						

Advisory:

Staff:

A. PUBLIC COMMENT:

1. Brian Kelley – Bunker Hill. Read a written statement (attached)

B. APPROVAL OF AGENDA: Motion by Feringa, support by Heffner. Motion carries

C. INQUIRY AS TO CONFLICTS OF INTEREST: none

D. CORRESPONDENCE: none

E. ACTION: none

F. OLD BUSINESS:

1. Park Master Plan Update
 - a. Review and Discuss Edits for Draft Plan
Committee members reviewed the first draft of the 2019-2023 Parks & Recreation Plan in its entirety. Each page was reviewed for form and substance. Winter recorded notes (attached) on draft document to send to Beckett & Raeder for incorporation into the draft prior to the public comment period between December 1 – 30.

G. NEW BUSINESS: none

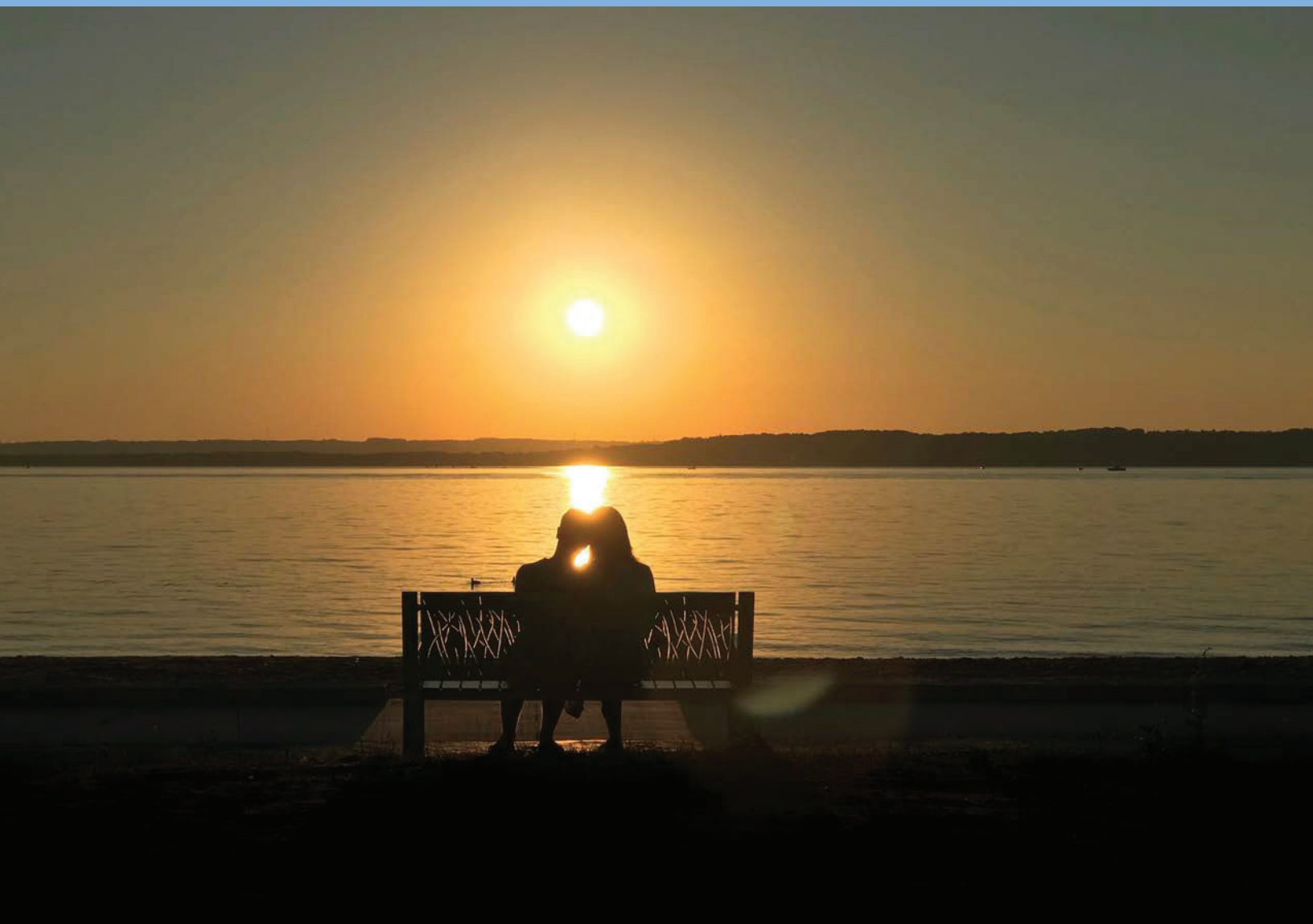
H. PUBLIC COMMENT: none

ADJOURN:6:30 pm



Parks Master Plan

2019-2023



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ACKNOWLEDGMENTS

Acme Township Board of Trustees

Jay B. Zollinger, Supervisor
Amy Jenema, Treasurer
Cathy Dye, Clerk
Jean Aukerman, Trustee
Darryl Nelson, Trustee
Paul Scott, Trustee
Doug White, Trustee

Parks and Trails Committee

Amy Jenema, Chair
Steve Feringa, Vice Chair
Marcie Timmins, Secretary
Barb Heflin
Jim Heffner
Dusty Smith
Karly Wentzloff
Shawn Winter, Planning & Zoning Administrator
Chris Kushman, TART Trails

Cover Photo

Matt Lawrence

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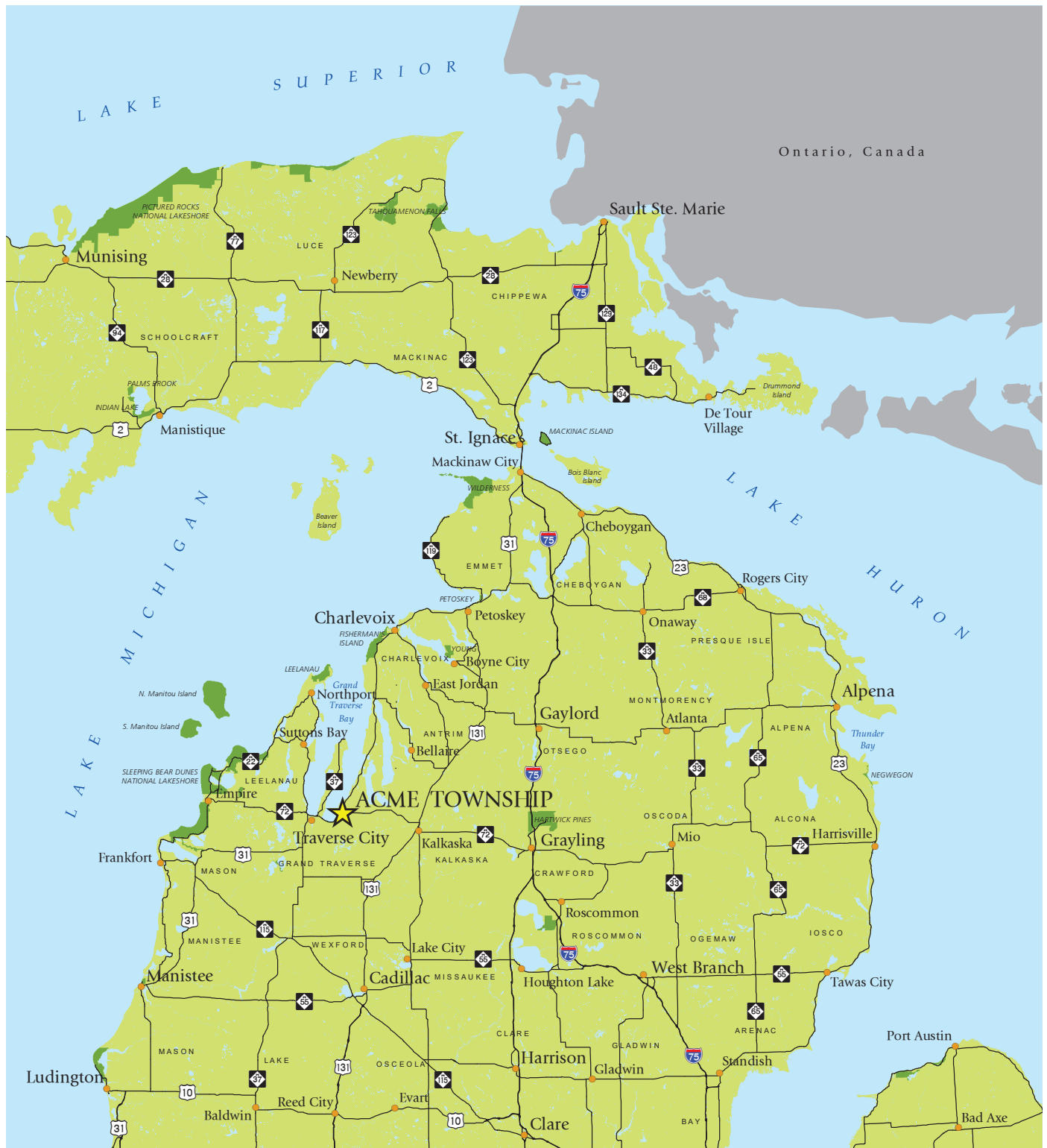
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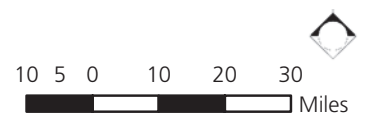
Introduction

Traditional recreation master plans are used to address recreational conditions while evaluating their function against recreational demands based on resident population facility standards. This form of recreation planning is weighted toward recreational facilities and discounts the benefits associated with individualized recreation activities such as kayaking, canoeing, hiking, biking, bird watching, gardening, and nature interpretation. In contrast, the Acme Township Parks Master Plan views recreation as a system versus a function and takes into account active park considerations, open space, trail development, and natural area preservation. This parks plan encompasses Acme Township, including the parks, natural areas, trails, and other recreation amenities within the Township, and has an emphasis on the properties owned and maintained by the Township.



ACME TOWNSHIP Regional Location

- County Boundary
- Major Highway
- State or National Park

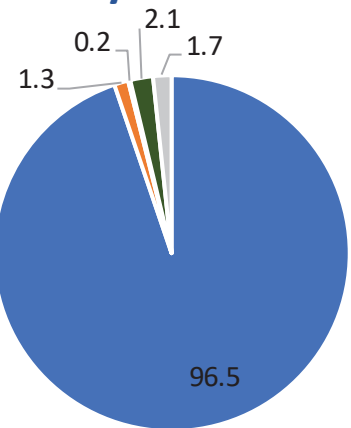


Population: 4,612	
48.4% Male	51.6% Female
2,232	2,380

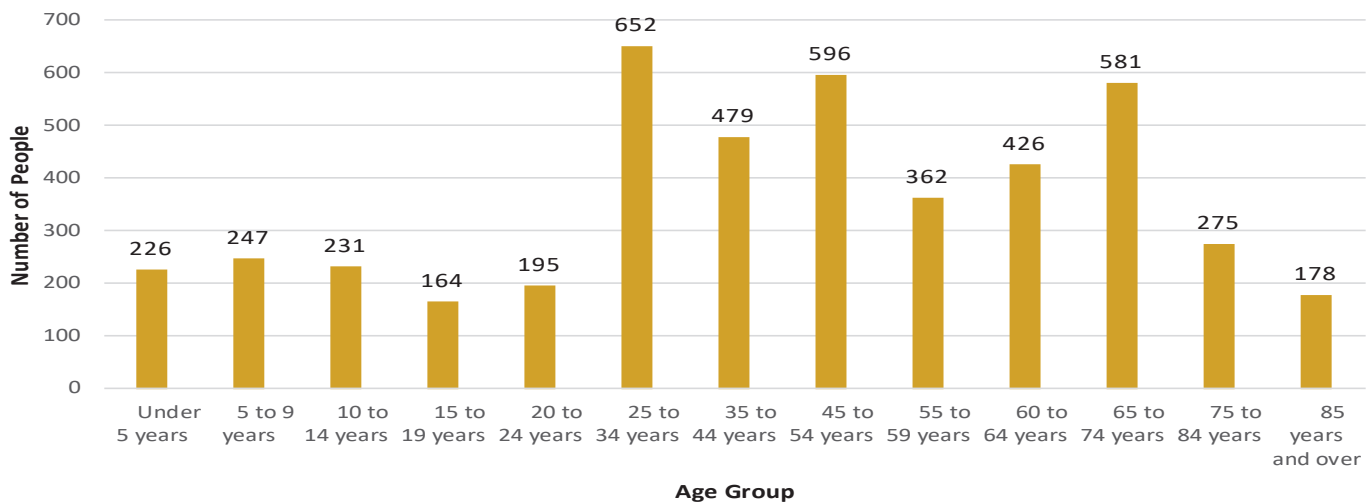
Demographics Source: U.S. Census/American Community Survey

Race and Ethnicity

- White Alone
- Black alone
- Asian alone
- Two or more races
- Hispanic origin



Age Distribution



POPULATION

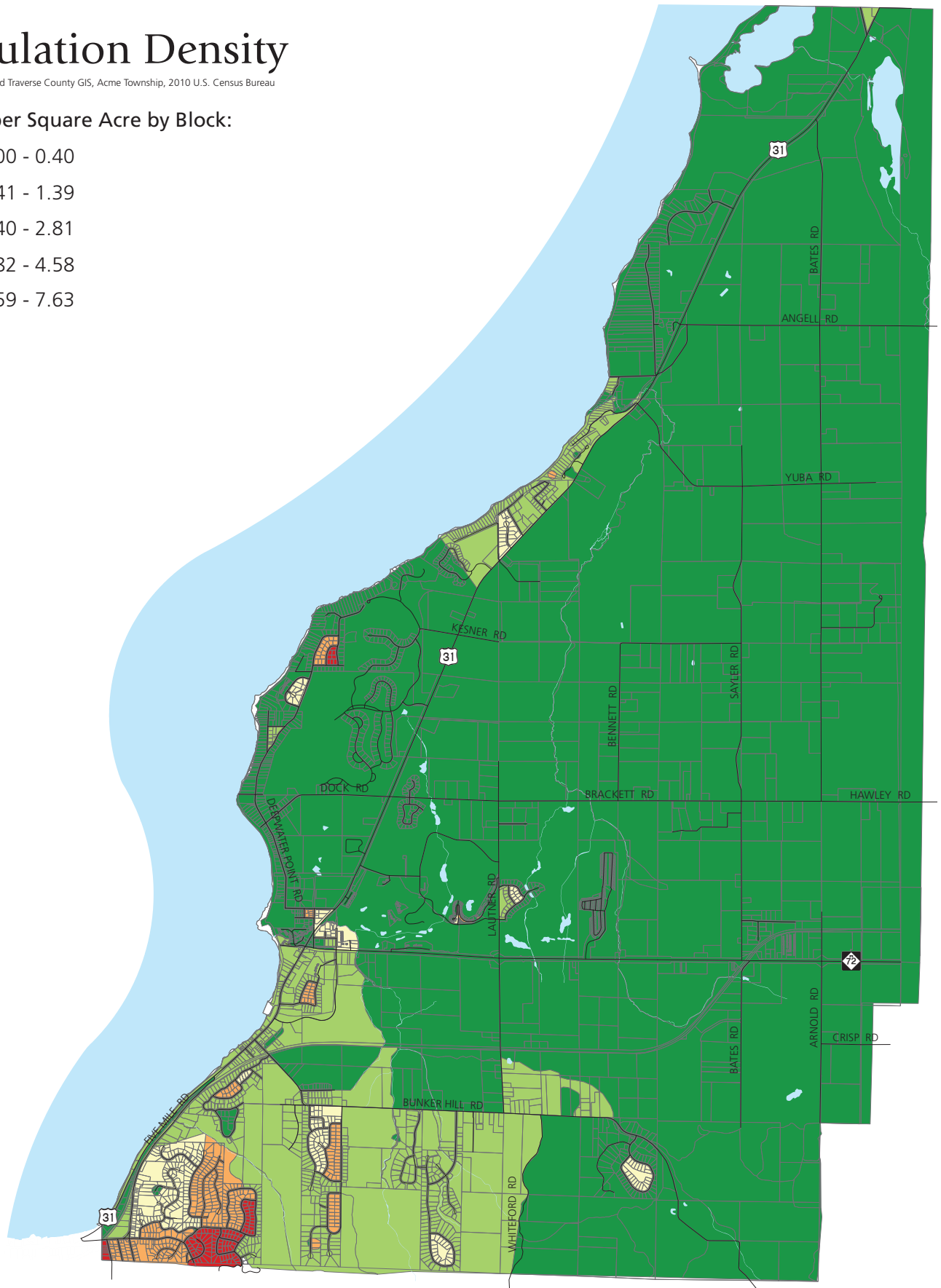
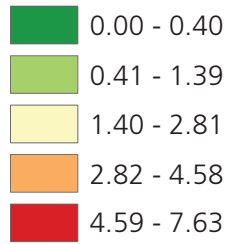
According to the American Community Survey, Acme Township's population in 2016 was 4,612. This population displays a change in the demographics since the last plan was completed. There has been a 5% increase in the population since the 2010 census. The biggest increase comes in the 25-34 year old age category by 46%. The median age for Acme Township is 48.3 years old. The Recreation Planning process will reflect these demographic changes.

In the 1930s, the population dwindled due to movement into larger cities, but since the 1970s and through the 2010 U.S. Census, population growth has occurred within the Township due to increased housing opportunities within the Grand Traverse Resort and residential development along East Grand Traverse Bay, around Bunker Hill Road and Holiday Road.

Population Density

Data Sources: Grand Traverse County GIS, Acme Township, 2010 U.S. Census Bureau

People per Square Acre by Block:



0 0.25 0.5 1 Miles

COMMUNITY DESCRIPTION

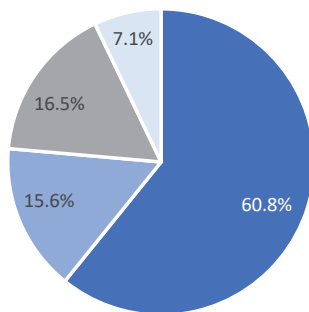
Acme Township is located in Lower Northwest Michigan in Grand Traverse County, approximately six miles northeast of Traverse City. Acme Township lies within a five-county region that includes Grand Traverse, Benzie, Kalkaska, Antrim, and Leelanau counties.

Originally, Acme Township was settled for its abundant natural resources and beautiful geography. Historically, the development of settlements was concentrated at the mouth of Acme Creek and defined the southwest portion of Acme Township as the center of activity. Today, the Township maintains a rural character and is pocketed with seasonal and year-round dwelling units along Grand Traverse Bay and in the western portion of the Township. Commercial development exists along US-31 and at the US-31 and M-72 intersection. Much of the M-72 corridor retains a rural character as it extends east toward Whitewater Township. There is a variety of scattered residential development throughout the Township, generally south of M-72. The interior of Acme boasts rolling hills and agricultural land filled with fruit farms, which are slowly being developed with residential dwelling units.



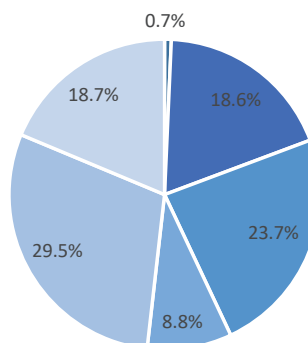
Housing

- Owner-occupied
- Renter-occupied
- Seasonal, Recreational, and Occasional Use
- Vacant - For Sale, Rent etc.



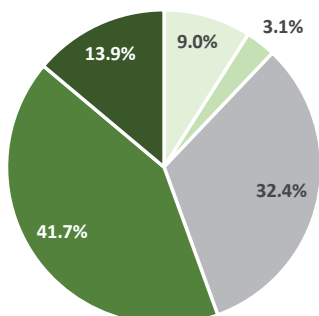
Education

- No High School Diploma
- High school graduate (includes equivalency)
- Some college, no degree
- Associate's degree
- Bachelor's degree
- Graduate or professional degree



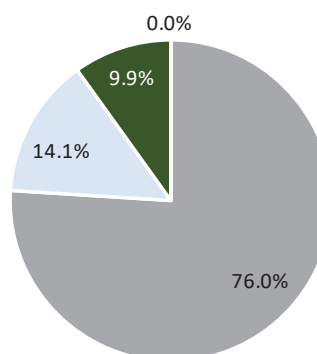
Household Income

- Very Low Income (less than \$25,000)
- Low Income (\$25,000-\$34,999)
- Moderate Income (\$35,000-\$74,999)
- High Income (\$75,000-\$149,999)
- Very High Income (\$150,000 and up)



Work

- Private wage and salary workers
- Government workers
- Self-employed in own not incorporated business workers
- Unpaid family workers



WORK AND INCOME

According to the American Community Survey the population of persons 16 years old and over in Acme Township is 3,850. There are 2,372 people that are recorded as employed. The unemployment rate in Acme is only 0.9% compared to the 4.7% national average. 89.8% of people in Acme Township commute to work alone, while 5.2% of people carpool. The average travel time for an individual to get to work is 18.9 minutes. 29% of people work in educational services or health related fields. Approximately 14% of people in Acme work in arts, entertainment and recreation. The median household income is \$65,043, compared to the national median household income of \$55,322.

HOUSING

There is a total of 2,612 housing units within the Acme Township jurisdiction. A majority of the housing units are single family detached homes, totaling 2,004. The average household size is 2.32 people. The total number of occupied units equals 1,999. Of the 1,999, 79.5% of those are owner occupied. The number of occupied units paying rent is 397. The median rent that an Acme Township resident is paying is approximately \$927 a month. There are 1,041 housing units with a mortgage and 549 without a mortgage.

EDUCATION

Education in Acme Township is higher than the state and national average. People in Acme Township that have a bachelor's degree or higher was 48.2% according to the American Community Survey. In the State of Michigan, 27.4% of people have a bachelor's degree or higher compared to the national average of 30%. 99.2% of people in Acme Township have obtained a high school diploma compared to 89.9% of the State of Michigan.



RECREATION EXPENDITURES

ESRI Business Analyst is a data source that collects and analyzes consumer data. The information is collected anonymously to reveal trends accurately. The table below highlights Recreational Expenditures by the residents of Acme Township. A total of \$4,596,629 was spent on a variety of recreational opportunities in general. In all categories, Acme Township residents spend more than the National average. This chart shows that the people of Acme Township spend the most money on Entertainment/Recreation Fees and Admissions, not necessarily within the Township limits. Acme Township residents spend 21% more than the national average on these recreational features.

Other significant expenditures were membership fees for social/recreation/civic clubs and for sports, recreation and exercise equipment. Rounding out the top four highest expenses was recreational vehicles and fees.

Acme residents spent 140% over the national average for payments on boats/trailers/campers and RV's which can be attributed to the location of the Township. The readily accessible water features and campgrounds play an important role in this amount of spending.

Table: Recreational Expenditures

	AVERAGE AMOUNT SPENT ANNUALLY	TOTAL SPENT ANNUALLY	% SPENT ABOVE THE NATIONAL AVERAGE
Entertainment/Recreation Fees and Admission	\$826.31	\$1,633,620	21
Membership fees for social/recreation/civic clubs	\$273.81	\$541,329	21
Sports, Recreation and Exercise Equipment	\$237.05	\$468,656	33
Recreation Vehicles and Fees	\$185.57	\$366,865	69
Fees for recreational lessons	\$159.05	\$314,442	15
Fees for participant sports	\$143.31	\$283,325	27
Payment on boats/trailers/campers/RVs	\$106.98	\$211,490	140
Hunting and fishing equipment	\$84.50	\$167,062	55
Admission to sporting events	\$78.82	\$155,826	33
Exercise equipment and gear, game tables	\$72.57	\$143,477	26
Camp fees	\$37.63	\$74,397	13
Bicycles	\$32.69	\$64,623	12
Rental of RVs or boats	\$24.51	\$48,455	22
Camping equipment	\$16.62	\$32,860	16
Docking and landing fees for boats and planes	\$16.45	\$32,522	40
Water sport equipment	\$7.85	\$15,521	20
Winter sport equipment	\$7.51	\$14,852	15
Rental/repair of sports/recreation/exercise equipment	\$3.00	\$2,976	29
Other sports equipment	\$2.31	\$24,331	60
Source: ESRI Business Analyst, "Recreation Expenditure" Report, 2018			

Administrative Structure

ORGANIZATION

Acme Township's parks and recreation program is administratively aligned under a traditional local government organizational structure. The Township Supervisor and Board of Trustees provide governance, establish public policy, adopt the annual budget and millage rates, and are the approval authority for community plans and projects. The Township Supervisor is also responsible for the execution and implementation of Board policies, budgets, and plans as well as performing oversight for day-to-day operations within the Township. Township administrative staff, which includes the Park Operations Manager, reports to the Township Supervisor. The Park Operations Manager is responsible for maintenance and construction occurring within the Township's parks. During the summer months, the Township retains seasonal employees to perform regular park maintenance. These individuals report to the Township Supervisor.

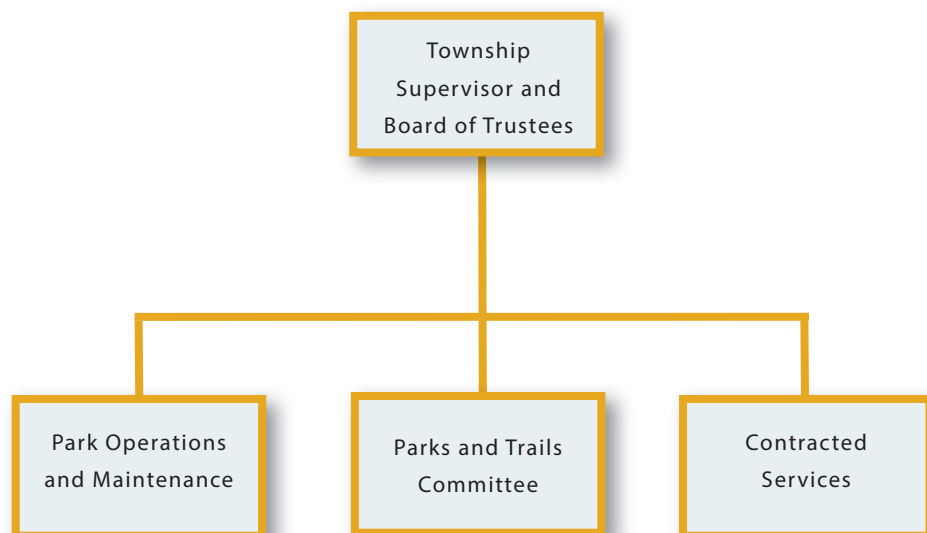
The Parks and Trails Advisory Committee provides citizen input into the Acme Township park program. A combination of citizens, administrative staff, and elected officials participate on this committee.

PARTNERSHIPS &

VOLUNTEERS

Acme Township has partnered with the Grand Traverse Regional Land Conservancy (GTRLC) and the Watershed Center. GTRLC has partnered with Acme Township to raise funds for parkland acquisition, to remove former private structures, and to plan future improvements. The Watershed Center has partnered with Acme Township on testing for E.coli at two swimming beaches between Memorial Day and Labor Day starting in 2012. They also obtained a grant to design some model Low-Impact Development storm-water management plans for use in the future development of the Township's shoreline park lands. Acme Township has a very close working relationship with Traverse Area Recreational Trails (TART) on potential trail network expansions in the township.

Acme Township also works with the Acme Business Association, TART Trails, Sweetwater Evening Garden Club, Grand Traverse Band of Ottawa and Chippewa Indians and Elk Rapids Public Schools. Elk Rapids Public School students often volunteer their hours to help out in Acme Township to fulfill their civic engagement requirements for school credit. The Acme Historical Society provides continued historical support as needed.



The Grand Traverse Band of Ottawa and Chippewa Indians has been instrumental in the development of Acme Township's parks through Tribal 2% grant allocations and having a representative serve on the Parks and Trails Committee.

TART trails and Acme Township collaborate on a variety of levels. They share resources when it comes to trail maintenance and funding particular projects. A TART Trails representative is on the Acme Township Parks and Trails Committee to keep communication open and up to date.

The Acme Business Association organizes and hosts the annual Acme Fall Festival held each September at Flintfields Horse Park. The Township and Acme Business Association continue to look for collaborative opportunities to promote the community's recreational assets that are the foundation of our regional economy.

The Sweetwater Evening Garden Club provides a variety of volunteer services throughout Acme Township. The club meets on a monthly basis and participates in annual beautification projects, community events, and they offer workshops and classes to the people of Acme Township.

ANNUAL BUDGET

The Acme Township annual parks and recreation budget for 2018–2019 is around \$512,975. Funds come from the General Operating Millage/General Fund, plus grants and donations. Of this amount, \$300,000 came from the MDNR Trust Fund Grant. The Grand Traverse Regional Land Conservancy gave a \$200,000 grant to help with matching funds for the Bayside Park development project. Capital expenditures for larger projects and grant contributions are budgeted annually when the funds will be expensed.

MAINTENANCE AND PARKS EXPENDITURES		
Item	(2017–2018)	(2018–2019)
Wages	\$16,400	\$18,700
Parks and Recreation Fund	\$51,632	\$44,275
Capital Improvements	\$155,000	\$450,000





Inventory of Existing Parks, Natural Areas, and Recreation Facilities

Acme Township has over 3,979 acres of public recreation land, much of which is composed of the Yuba Creek Natural Area, Petobego State Game Area, Pere Marquette State Forest and Maple Bay County Park. These facilities account for 90% of the Acme Township public recreation acreage. Acme Township has only 37 acres of recreational land not dedicated to natural areas and preserves. Privately owned recreational land is expansive in Acme at about 1,518 acres of land. The private facilities offer a wider variety of uses, such as golf courses, equestrian facilities, swimming pools, and campgrounds, in addition to many of the same opportunities available at the public facilities. Facilities owned by schools are relatively small in comparison at about 7.75 acres. Bertha Vos Elementary School is the only school in the area that offers recreation facilities.

The Grand Traverse Land Conservancy also has 37.5 acres of recreational land within Acme Township. They also assist in the management of Deepwater Point and Yuba Creek Natural Area.

Overall, Acme Township has an immense amount of recreational opportunities, both public and private. With the updating and implementation of the recreation plan, the current recreation opportunities can only be improved for greater ease of use for everyone throughout the entire community.

REGIONAL RECREATION OPPORTUNITIES

Acme Township is located in Grand Traverse County, which boasts some of Michigan's greatest recreational opportunities. There is a diversity of recreation facilities available within the County under the ownership of public and private enterprises. These include local parks and recreation facilities, private golf courses, public and private marinas and boat liveries, and state parks and forests.

ACCESSIBILITY EVALUATION

Each of the four parks owned by Acme Township was evaluated for its current level of accessibility on a scale of 1 to 5 (1=none of the park amenities are accessible, 2=some amenities are accessible, 3=most amenities are accessible, 4=all amenities are accessible, 5=the entire park has been designed using principles and standards of accessibility). The evaluation was performed by Beckett & Raeder staff by visually evaluating the amenities available at each park. The accessibility evaluation score can be found on the inventory sheet for each park

PARKS AND RECREATION INVENTORY

Recreation facilities in Acme Township are made up of four different elements: Public Recreation Facilities (Township, County, and State), School Recreation Facilities, Private Recreation Facilities and the Grand Traverse Land Conservancy. The table below summarizes the recreation facilities found within Acme Township.

ENTITY	ACRES
Acme Township	465
Grand Traverse County	531
State of Michigan	1,427
Private Entities	1,518
Grand Traverse Land Con.	37.5
Total	3,979

Existing Recreation Facilities

Data Sources: Grand Traverse County GIS, Acme Township

Acme Township

1. Bayside Park, Bunker Hill Road Boat Launch
2. Deepwater Point Natural Area
3. Sayler Park
4. Yuba Creek Natural Area

Grand Traverse County

5. County Park Land
6. Dock Road Boat Launch
7. Maple Bay County Park
8. Shores Beach Lane Boat Launch
9. Yuba Park Road Boat Launch

Private

10. Bertha Vos School
11. East Bay Harbor Marina
12. Everflowing Waters Campground
13. Grand Traverse Resort
14. Flintfields Horse Park
15. Lochenheath Golf Course
16. New Hope Community Church
17. Traverse Bay RV Park

State of Michigan

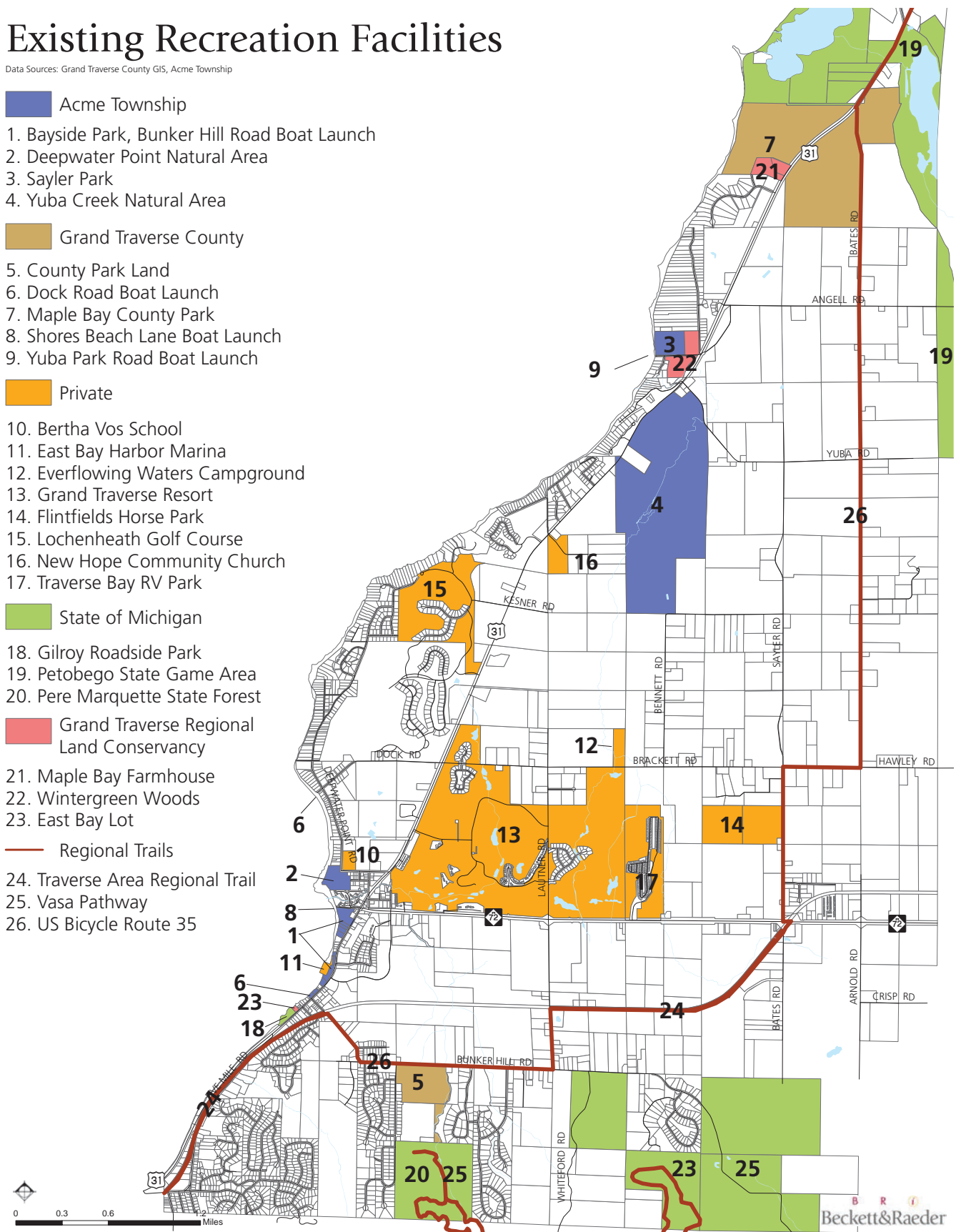
18. Gilroy Roadside Park
19. Petobego State Game Area
20. Pere Marquette State Forest

Grand Traverse Regional Land Conservancy

21. Maple Bay Farmhouse
22. Wintergreen Woods
23. East Bay Lot

Regional Trails

24. Traverse Area Regional Trail
25. Vasa Pathway
26. US Bicycle Route 35



ACME TOWNSHIP RECREATION FACILITIES		
Facility Name	Facility Description	Acres
Bayside Park	Beach Frontage on Grand Traverse Bay, Picnic Tables and Grills, Overlook Deck, Swimming, Wash Rooms, Changing Area, and Play Equipment	14.7
Sayler Park	Beach Frontage on Grand Traverse Bay, Picnic Tables and Grills, Horseshoe Pits, Volleyball, Swimming, Wash Rooms and Changing Area, Play Equipment, Shelter 1 (48 People), Shelter 2 (80 People), Shelter 3 (80 People), and Boat Launch	22.0
Deepwater Point Natural	Frontage on Grand Traverse Bay, Trails and Parking	14.9
Yuba Creek Natural Area	Frontage on Yuba Creek, Trails and Natural Area, Hunting	413
GRAND TRAVERSE COUNTY		
Facility Name	Facility Description	Acres
Maple Bay	Master Plan In Progress (Former Dairy Farm)	450
VASA Pathway	Trailhead VASA Trail, Toilets and Trails	80.0
Dock Road Road End	Unimproved Boat Launch and Gravel Parking Lot	0.3
Bunker Hill Road Boat Launch	Boat Launch and Gravel Parking Lot for watercrafts under 16 feet	0.3
Shores Beach Lane Road End	Unimproved Boat Launch	0.3
STATE OF MICHIGAN		
Facility Name	Facility Description	Acres
Petobego State Game Area	Natural Area	612.3
MDOT Gilroy Park Roadside	Beach Access, Picnic Tables, Grills, and Toilets	2.2
Pere Marquette State Forest	Forest encompasses a section of the VASA trail	812
PRIVATE FACILITIES		
Facility Name	Facility Description	Acres
Everflowing Water	Rustic Campground	12.0
Grand Traverse Resort	Golf Course (54 Holes), Hotel and Conference Center, Indoor / Outdoor Tennis (5), Indoor / Outdoor Pools (2), Beach Frontage on Grand Traverse Bay, and Salon and Spa	1400
New Hope Community Church	Softball, Soccer, and All-Purpose Fields, Tennis Courts (2), Playground Equipment, Meeting Room, and Restrooms	20.5
Bertha Vos Elementary School	Playground Equipment, Skating Rink and Hut	6.4
East Bay Harbor Marina	Offers gasoline, water, electricity, restrooms/showers and laundry	
Flintfields Horse Park	Stables, Riding and Competition Fields	80.0
GRAND TRAVERSE REGIONAL LAND CONSERVANCY FACILITIES		
Facility Name	Facility Description	Acres
Wintergreen Woods	Natural pine forest and 0.6 miles of trail	21
East Bay Lot	Open undeveloped lot	.5
Maple Bay Farm	Farm house, root cellar, sugar shack and pole barn	16

PARK CLASSIFICATION

The following table indicates the general park categories, location criteria, and size criteria that the National Recreation and Park Association follows as a general guideline. Acme Township exceeds the recommended criteria for each park category except the mini parks. The Township goals and objectives highlight potential acquisition of inland parkland.

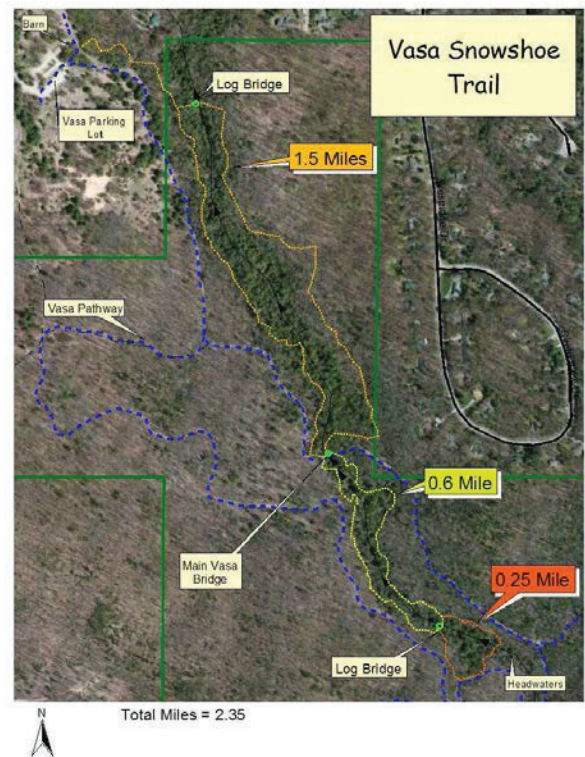
Classification	General Description	Location Criteria	Size Criteria
Mini Park	Used to address limited, isolated or unique recreational needs.	Less than ¼ mile in residential setting	2500 sq ft to 1 acre
Neighborhood Park	Serves as the recreational and social focus of the neighborhood. Focus is on informal active and passive recreation.	¼ to ½ mile distance and interrupted by nonresidential roads and other physical barriers	5-10 acres
Community Park	Serves broader purpose than neighborhood park. Focus is on meeting community-based recreation needs.	Usually serves two or more neighborhoods and ½ to 3-mile distance	Usually between 30-50 acres
Large Urban Park	Serve a broader purpose than community parks and are used when community and neighborhood parks are not adequate to serve the needs of the community.	Usually serves the entire community	Usually a minimum of 50 acres, 75 acres or more is optimal
Natural Resource Areas	Lands set aside for preservation of significant natural resources, remnant landscapes, open space, and visual aesthetics/buffering.	Resource availability and opportunity	Variable

Adapted From: Lancaster, R. A., Ed. Recreation, Park and Open Space Standards and Guidelines. Alexandria, VA: National Recreation and Park Association, 1983. Mertes, J. D. and J. R. Hall. Park, Recreation, Open Space and Greenway Guidelines. Alexandria, VA: National Recreation and Park Association, 1995.

VASA PATHWAY

The VASA Pathway is a significant recreational facility in Acme Township. It is a year-round recreational pathway for hiking, running, mountain biking, winter fat biking, groomed cross country skate and classic skiing, snowshoeing, bird watching, and hunting.

The VASA Pathway is maintained through a collaborative effort between TART Trails, DNR, Grand Traverse County, and Northern Michigan Mountain Bike Association. One of the trailheads has a warming hut located off Bartlett Road. The 2.5 mile VASA snowshoe trail is very popular and widely used.



PARK LAND ANALYSIS

Properties that are within Acme Township are summarized in the following table based upon a total population of 4,612.

Classification	NRPA	Recommended Acreage for Acme Township	Acme Township Parks	County Parks	Public School Park	Surplus/ Deficiency
Mini Park	.25-.5 Acres	1.2 - 2.3	0	-	7.75	5.45
Neighborhood Park	1.0-2.0 Acres	4.6 - 9.2	14.9	-	-	5.7
Community Park	5.0-8.0 Acres	23 - 36.9	33	-	-	10
Regional Park	5.0-10.0 Acres	23 - 46	413	531	-	898
TOTALS		51.8 - 94.4	461	531	7.75	919.2

BAYSIDE PARK

Size: 14.7 acres

Location: Intersection of US-31 and M-72

Ownership Entity: Acme Township

Accessibility Score: 4



ATHLETIC / SPECIAL ACTIVITY FACILITIES

Type	Quantity	Condition	Notes / Suggested Action
Play Structures - Metal	4	Good	Slide, swings, monkey bars, climber
Groomed Swimming Area	1	Good	
Open Lawn	1	Excellent	
Walking Paths - Concrete / Asphalt		Excellent	

LANDSCAPE / MISCELLANEOUS FACILITIES

Type	Quantity	Condition	Notes / Suggested Action
Parking Lot - Paved	Many	Excellent	Two new parking areas with ADA access
Bike Rack	1	Excellent	New
Benches	Many	Excellent	New modern benches throughout
Picnic Tables	Several	Good	Replace as needed to match new tables
Park Grills	Many	Good	Metal, most are not accessible
Restrooms - Accessible	1	Excellent	Modern building with drinking fountain
Shelter - Small	2	Good	
Signage - Park Name and Rules	2	Good	Consistent branding
Signage - Interpretive	3	Fair	Two are showing signs of deterioration
Butterfly Garden	1	Excellent	Maintained by Sweetwater Evening Garden
Native Plant Garden	1	Excellent	Maintained by Sweetwater Evening Garden
Viewing Platform - Wood	1	Excellent	Ramp down to beach and Mobi-Mat to

Accessibility Notes

- Three barrier-free spaces marked next to restroom facility
- Several accessible picnic tables
- Paved path to accessible restroom facilities
- Asphalt path through woods to wooden deck near beach
- Pave path down to the beach. A Mobi-Mat has been purchased to improve access to the water

Comments

- Parking lot access maintained in winter months
- Play equipment primarily for ages 6+
- Leashed dogs are allowed in Bayside Park



Bayside Park is located in the heart of Acme Township, near the intersection of US-31 and M-72, and was established in 1987. Bayside Park is used by locals and tourists as it is the most visible to passing vehicles. The park grew over time through a collaborative acquisition campaign to obtain adjacent land.

Two newly paved parking areas provide convenient entry to the park. A trail leads from the parking lot past a modern, accessible restroom facility into the woods. Nestled in the woods are a few sturdy play structures and many park grills and benches. A winding paved trail leads to a deck looking out over the beach and the beautiful Grand Traverse Bay; the shoreline is a mix of groomed and natural areas that minimize erosion while providing space for swimmers to enter the pristine water. On the west side of the parking lot in the newly acquired park property, an open lawn dotted with trees stretches from the road to the beach. Other park features include native and butterfly gardens maintained by the Sweetwater Evening Garden Club and interpretive signage.

The most recent improvements include an asphalt trail along US 31 that connects to adjacent sidewalks and businesses. New sidewalks and benches are located throughout the park. A new bike rack is located near the parking area and restroom facility for easy access to the park.

The park is available for year-round use, providing snowshoers and ice fishers access to the bay front. Boaters can access the water on Shores Beach Lane. The park's close proximity to the Deepwater Point Natural Area affords greater recreation opportunities; active uses such as swimming and picnicking can take place in Bayside Park, and passive uses such as nature walks and birding are only a short walk down the beach. Dogs are allowed in Bayside Park on a leash and owners are encouraged to clean up after their pets.



DEEPWATER POINT NATURAL AREA

Size: 14.93 acres

Location: Intersection of Deepwater Point Road and Shore Road

Ownership Entity: Acme Township

Accessibility Score: 1



ATHLETIC / SPECIAL ACTIVITY FACILITIES

Type	Quantity	Condition	Notes / Suggested Action
Waterfront		Fair	Not easily accessible
Walking Paths - Woodchip		Excellent	

LANDSCAPE / MISCELLANEOUS FACILITIES

Type	Quantity	Condition	Notes / Suggested Action
Parking Lot - Gravel	4 Spaces	Fair	
Signage - Park Name and Rules	6	Excellent	

Accessibility Notes

- Paths are woodchips—not accessible to persons in wheelchairs

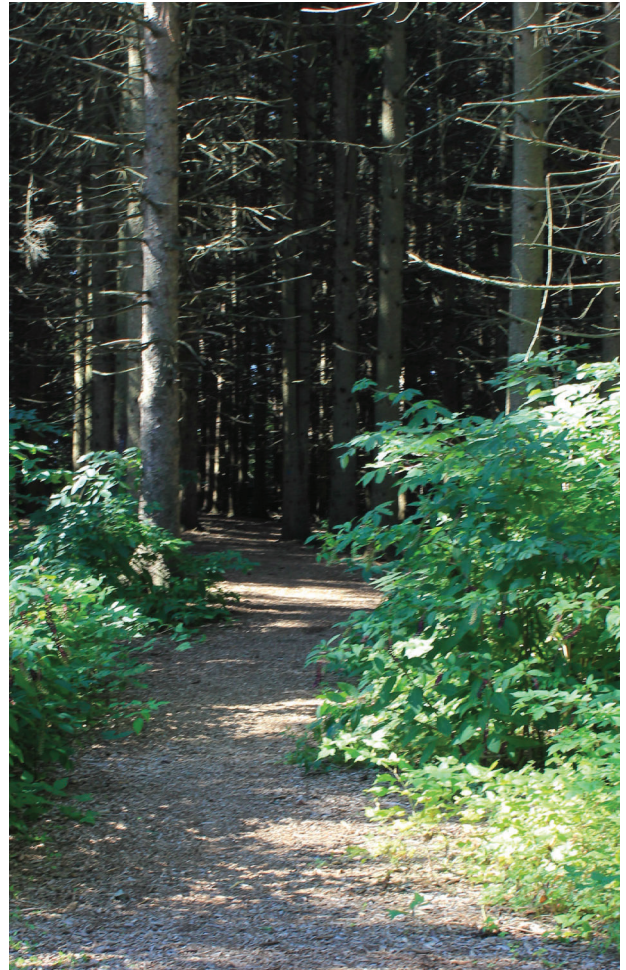
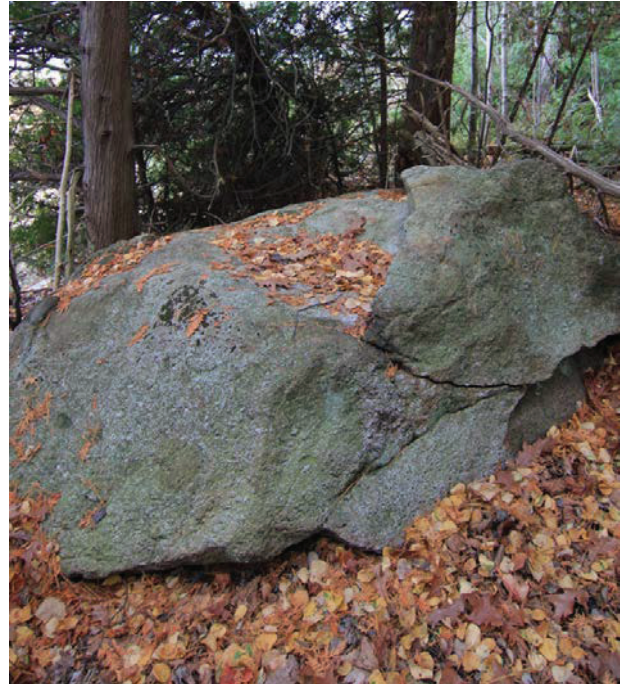
Comments

- No current management plan
- A trail map at entrances may be useful to visitors for orientation
- Parking area may be difficult to find for first-time visitors
- Entrance located adjacent to elementary school



Deepwater Point Natural Area, though located just down the beach from Bayside Park, is accessed by Shores Beach Lane off US-31. This property, an old pine plantation, is more removed from US-31 than Bayside Park and has a peaceful and contemplative atmosphere. The natural area boasts 14.93 acres of woods and woodchip trails that wind from the parking area to the bay shore and is a springboard for activities such as kayaking, birdwatching, or quiet walks through the tall pines. The area is primarily used by locals.

Deepwater Point Natural Area has a beautiful waterfront shoreline along East Bay near the mouth of the Acme Creek. This park is best used for hiking, walking, and being one with nature.



YUBA CREEK NATURAL AREA

Size: 413 acres
Location: Intersection of US-31 and Yuba Rd
Ownership Entity: Acme Township
Accessibility Score: 1



ATHLETIC / SPECIAL ACTIVITY FACILITIES			
Type	Quantity	Condition	Notes / Suggested Action
Walking Paths - Mowed			
Trail Loop	3 areas	Good	2 Miles in length

LANDSCAPE / MISCELLANEOUS FACILITIES			
Type	Quantity	Condition	Notes / Suggested Action
Parking Lot - Grass	Approx. 19 spaces	Fair	
Parking Lot - Gravel	Approx. 16 spaces	Fair	
Information Kiosk	2	Good	
Walking Path Maps	1	Good	At kiosk
Benches - Wood	3	Fair	
Blue Bird Nesting Boxes	Numerous	Good	

- Accessibility Notes
- Access to YCNA is limited for persons in wheelchairs—mowed paths are not ideal, but other improvements are not intended per the Management Plan

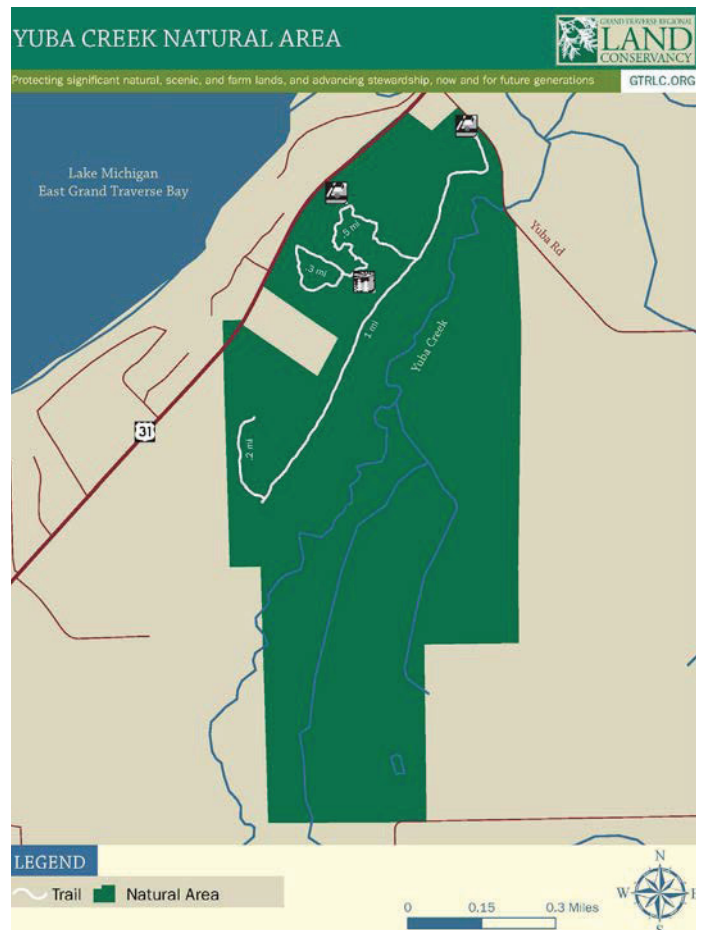
- Comments
- Management Plan in place—2002
 - Panoramic views
 - Hunting is allowed
 - Add new benches
 - Update kiosks
 - Invasive species management will be implemented in an annual maintenance plan. Autumn Olive will be eradicated with the help of the Grand Traverse Regional Land Conservancy.



Yuba Creek Natural Area has no shortage of beautiful vistas to enjoy; at 413 acres, it is Acme Township's largest Township-owned natural area. Two access points allow visitors to experience the natural beauty of the area; one grass parking lot at the highest point in the park affords panoramic views of the Yuba Creek valley below, and the other gravel parking lot off of Yuba Road leads to a path that runs the length of the valley. Yuba Creek is primarily used by Acme Township residents, but its adjacency to US-31 increases opportunities for regional users.

A management plan for the Yuba Creek Natural Area was adopted in November of 2002. The plan outlines several goals and objectives for the care of several natural features of the area, including protecting and improving existing wetlands, creating and improving upland habitat, protecting existing eagle nest sites, preserving the water quality of Yuba Creek, and providing birdhouses for bluebirds and kestrels. The plan also provides for the continuation of hunting opportunities, additional land preservation, and public outreach and education.

Acme Township has partnered with the Grand Traverse Regional Land Conservancy (GTRLC) to implement trail improvements at Yuba Creek Natural Area. Previously, an out-and-back hiking trail existed off Yuba Road through the creek valley. Additionally, a small hiking loop was accessible from the parking lot off US-31. Through the help of the GTRLC's Americorps workers and community volunteers, the two trails are now connected. Future plans include another connection between the two existing trails on the south side of the property to create a large interior hiking loop.



SAYLER PARK

Size: 22 acres

Location: Yuba Park Road

Ownership Entity: Acme Township

Accessibility Score: 3



ATHLETIC / SPECIAL ACTIVITY FACILITIES

Type	Quantity	Condition	Notes / Suggested Action
Horseshoe Pits	5	Varies	
Play Structures	8	Varies	Swings, slide, go round, climber, spring toys
Sand Volleyball Courts	2	Fair	

LANDSCAPE / MISCELLANEOUS FACILITIES

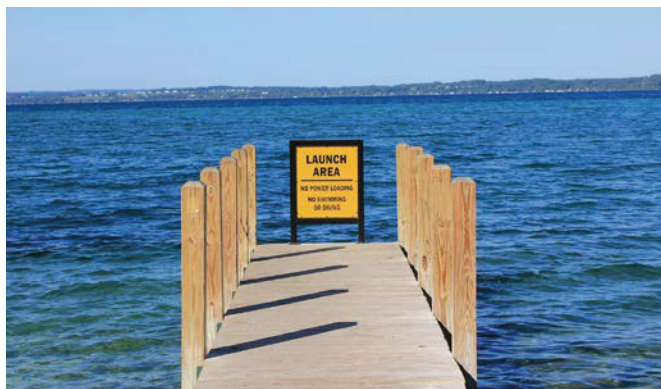
Type	Quantity	Condition	Notes / Suggested Action
Picnic Shelters	3	Good	Tables under each shelter, grills on the side
Picnic Tables - Wood and Metal	25–30	Good	Does not include shelter tables
Benches - Wood	Numerous	Fair	In need of updating
Park Grills - Metal and Stone	15–20	Fair	In need of updating
Restrooms - Accessible	1 Shelter	Good	In need of hard surface for better access
Parking Lot - Paved	1	Good	Parking on side of Yuba Park Road
Boating Access Site	1	Excellent	Newly constructed in 2018

Accessibility Notes

- Paths are firm and stable—gravel, asphalt, or brick
- Bathrooms are accessible
- There are a few barrier-free parking spaces designated near the park entrance with a paved path down to the boat launch.
- Few barrier-free amenities along shore bluff with the most recent improvements

Comments

- Lots of amenities—tables and grills, numerous play structures. Wood swing set needs replacing. Play structures include one ADA swing
- Barrier-free parking exists at the restroom facility and at shelters. No designated individual barrier-free sites
- Play equipment primarily for ages 6+



Sayler Park is located off Yuba Park road in Yuba. This 22-acre park is a fantastic place for family recreation; the park has three shelters that can be rented for gatherings, play equipment, outdoor grills, horseshoe and volleyball areas, and modern, accessible restrooms in addition to the beach and Grand Traverse Bay access. Sayler Park, out of all of the parks owned by Acme Township, is best equipped for family gatherings and group recreation due to the number of amenities in place. Sayler Park's location is not as visually prominent as Bayside Park, but Sayler Park still receives many visits from Acme Township residents, both seasonal and permanent.

Sayler Park Boating Access Site

The Sayler Park Boating Access Site was completed in 2018. The site was very popular during the first year of being open to the public. The brand new facilities include a concrete boat launch pad, paved entrance and round about for launching the boats. The new site is posted and advertised on the Acme Township website. Sayler Park Boating Access Site is included in the Acme Township annual maintenance schedule.

Asphalt paving leads from US31 to the launch. There is also a new gravel parking area with a concrete pad for handicap accessible parking. A new trail was also developed within the park. The boat launch is not staffed, therefore there is an honor box located to the side of the boat launch area where individuals can drop the requested \$5 fee. The suggested fee helps to offset the cost for annual maintenance. The project was funded through the Great Lakes Fishery Trust.

The dock is put in place in April and removed in October. Dredging will be completed on an as needed basis and monitored regularly. Infrastructure and large scale maintenance and replacement schedules will be reviewed on an annual basis and budgeted accordingly.



PREVIOUS GRANT ASSISTANCE

Deepwater Point Natural Area: TF96-110

Year: 1996

Description: Acquisition of approximately 1335' of rocky beach frontage on Grand Traverse Bay

Grant Award: \$1,968,000

Status: Rustic trails and a gravel parking lot have been constructed on the acquired property and remain in good condition.



Yuba Creek Natural Area Acquisition: TF00-162

Year: 2000

Description: Acquisition of over one mile of frontage on Yuba Creek

Grant Award: \$1,576,021

Status: Mowed trails, gravel parking lots, and trailhead signage were installed on the acquired property and remain in good condition.



Acme Waterfront Park Acquisition: TF08-095

Year: 2008

Description: Acquisition of 540' of shoreline properties

Grant Award: \$3,006,200

Status: Existing buildings on acquired property have been demolished and small improvements have been made.

Acme Waterfront Park Phase II: TF09-171

Year: 2009

Description: The acquisition of 900' of shoreline properties

Grant Award: \$2,266,500

Status: Existing structures on acquired property have been demolished.

Acme Waterfront Park Acquisition: TF11-082

Year: 2011

Description: The acquisition of approximately 337 feet of frontage on East Grand Traverse Bay in two parcels.

Grant Award: \$862,500

Status: The property is part of the Bayside Park development to provide access to the Grand Traverse Bay.



PREVIOUS GRANT ASSISTANCE

Waterways Grant for Sayler Park Boating Access Site

Year: 2015

Description: Boating Access Site Improvements

Grant Award: \$91,485

Status: A new paved boat launch was developed, along with accessible paved pathways and parking to accommodate everyone.



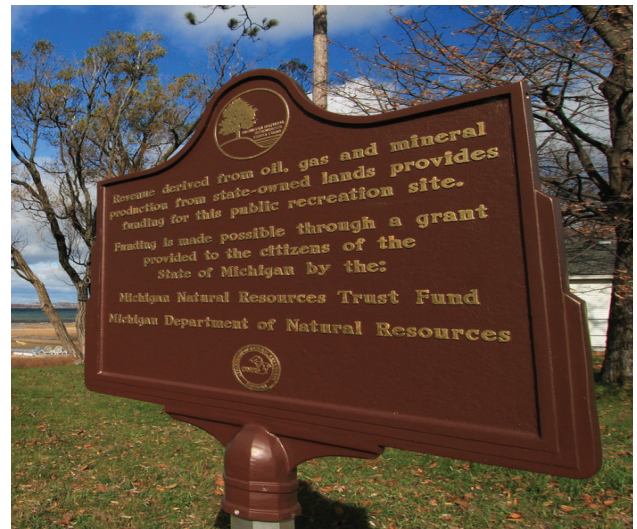
Bayside Park Development: TF16-0061

Year: 2016

Description: Development of Bayside Park, and a trailhead for the Lake Michigan Water Trail.

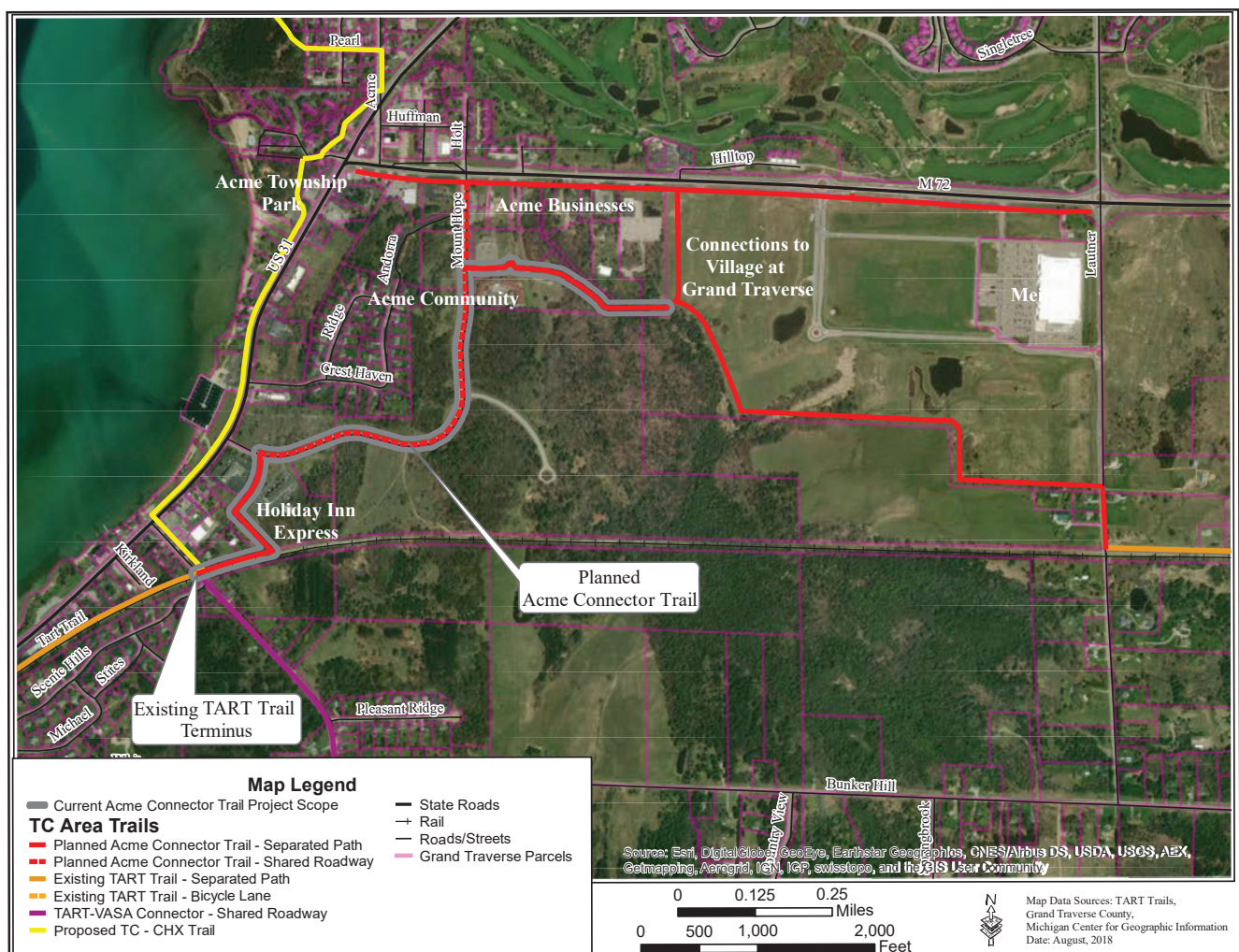
Grant Award: \$300,000

Status: Universally accessible walkways throughout the park, playground, shade structures, parking, amenities and trailhead signs.



GRANTS FROM OTHER AGENCIES

ROTARY CHARITIES OF GRAND TRAVERSE		
Project Title	Description	Grant Award
Waterfront Visioning Plan	Financed the preparation of a waterfront visioning plan.	\$5,000
GRAND TRAVERSE BAND OF OTTAWA AND CHIPPEWA INDIANS		
Project Title	Description	Grant Award
Sayler Park Playground Equipment	Replaced outdated and unsafe playground equipment and added ADA-compliant features	\$14,350
GRAND TRAVERSE BAND OF OTTAWA AND CHIPPEWA INDIANS		
Project Title	Description	Grant Award
Acme Connector Trail	Engineering ACT	\$15,000
MICHIGAN REGIONAL PROSPERITY INITIATIVE, COMMUNITY GROWTH GRANT		
Project Title	Description	Grant Award
Acme Connector Trail	Design and Construction Engineering	\$25,000



Resource Inventory

Data Sources: Grand Traverse County GIS, Acme Township, 2012 Acme Township Master Plan

Conservation Parcels:

- Potential Farmland for Preservation
- Approved for PDR Option
- Completed PDR / Protected Farmland
- Privately Owned Land Permanently Preserved
- Public Land Preserved with Conservancy Assistance
- Acme Shoreline Preservation
- Other Public Land
- Township-Owned Recreation
- Other Recreation

Wetlands:

- Freshwater Emergent
- Freshwater Forested / Shrub



RESOURCE INVENTORY

Recreational Facilities

Michigan offers many recreational opportunities throughout the entire state, and Acme Township is no exception. The Township offers a variety of publicly and privately owned recreational opportunities, including an equestrian center, golf courses, water access, VASA Pathway, state land, snowmobiling and parks with trails and picnic tables.

Natural Resources

Acme Township's topography is relatively flat, ranging in elevation from 580 feet at the Bay to 860 feet at the southern boundary of the township. Forests cover about a sixth of the Township and are the primary land cover in the southern portion of Acme Township. Forestry is also abundant in the northern part of the Township, where forests surround the Petobego swamp and wildlife areas.

Cultural Resources

One significant historic property is located in Acme Township. The John Pulcifer House was built in 1883. John Pulcifer organized Acme Township and became the Town Supervisor from 1891 to 1919. John's niece occupied the house until 1964; it sat abandoned until restoration began 35 years later, in early 1999. In 2000, the John Pulcifer House was added to the National Register of Historic Places. Currently, it operates as a bed and breakfast that is part of a 130-year-old, 400-acre, working cherry farm overlooking East Grand Traverse Bay.

The Township offers a variety of
publicly and privately owned
recreational opportunities.

Climate

Acme Township's climate is affected a great deal by its location near Grand Traverse Bay. It simulates a marine-like climate that moderates temperature and precipitation, allowing for a longer frost-free growing period for plants that would not normally be feasible at this latitude. The average maximum and minimum temperatures in January are 30 degrees and 17 degrees, and in July they are 82 degrees and 59 degrees. The average rainfall is 29 inches and the average snowfall is 70–80 inches.

Watersheds

Acme Township's land area is 24.17 square miles and located within the Grand Traverse Bay Watershed. There are four sub-watershed areas in the Township and these include Acme Creek, East Bay Shoreline, Petobego Creek, and Yuba Creek. The Acme Creek (13.2 square miles) and Yuba Creek (8.4 square miles) sub-watersheds are located within the interior of the Township, and many of the operable orchards and farms are located within this geographic zone. The East Bay Shoreline sub-watershed is adjacent to Grand Traverse Bay, and this area has witnessed significant residential development. Protection and management strategies for the respective sub-watershed areas are discussed in the Grand Traverse Bay Watershed Management Plan.

Public Resource Summary

Acme Township is a diverse natural landscape influenced by topography, climate, wetlands, forests, and Lake Michigan. Urban land cover in Acme Township constitutes approximately 11% of the geographic area, while the remainder consists of forested and agricultural uses. For example, the predominant land cover for the Acme Creek sub-watershed is forested land, while the principal land cover in the Yuba Creek sub-watershed is agriculture. Influenced by growth in Grand Traverse County, the natural assets of the Township, if not managed and developed properly, will come under continued pressure, possibly leading to their degradation.



Concurrent Planning Efforts

United States Bicycle Route 35

US Bicycle Route 35 is part of the US Bicycle Route system, first established in 1982 and revived in 2003. USBR 35 connects Sault Ste Marie to New Buffalo along a 501-mile route, portions of which are on non-motorized trails. In Acme Township, it travels north along Five Mile Road, takes a detour down Bunker Hill Road, and connects back up to Five Mile Road before turning north onto Bates Road, followed by a quick left to travel east on Hawley Road, and then north to US-31 along Bates Road.

Maple Bay Park and Natural Area

Maple Bay Park and Natural Area has a tremendously diverse landscape with significant natural and scenic resources, including: 2,583 feet of Great Lakes shoreline, sand dunes, wetlands, and farmland. There are no remaining undeveloped private parcels of land in the Grand Traverse region with its characteristics and size. The park provides a habitat for a number of rare and endangered bird and plant species. From the pristine shoreline on the west, the property extends one mile east to the Petobego Marsh and State Game Area. A development plan for this park is critical to maintain wildlife habitats, provide hunting and fishing opportunities, and to protect the integrity of the regionally important coastal wetlands. The same is true for the nearby Petobego watershed.

Maple Bay Park is open to the public for recreational activities, including swimming, kayaking, para-sailing, kite boarding, bird watching, paddle boarding, canoing, hiking, hunting, observing wildlife, snowshoeing and skiing in winter, and nature education, year-round.

Grand Traverse Parks and Recreation's primary goals are to: preserve the natural features of the property, provide public access to Grand Traverse Bay, maintain and enhance the value of the property for the wildlife of the Petobego watershed corridor, use the property as a source for environmental education, and provide additional opportunities for hunting.

VASA Trailhead

The VASA trailhead on Bartlett Road is located within Acme Township boundaries. Projected improvements include a bicycling pump track, increase the parking lot capacity, improved landscaping, and improvements to the existing warming hut that include accessibility.

Acme Shoreline Placemaking Plan

In the fall of 2012, Acme Township began a Placemaking Plan to develop strategies for future development. The Placemaking Plan started out as a citizen-driven strategy for the existing and newly acquired shoreline park properties and shoreline corridor along US-31. The community anticipated forging beneficial connections between local businesses and the emerging new public space, therein providing mutual economic, functional and aesthetic benefits. Early in the planning process, it was evident that the shoreline corridor was and will be greatly influenced by traffic and development plans outside of the immediate area. As such, the planning study geographic boundary was expanded to include the M-72 corridor east to Lautner Road and south on US-31 to the Township Boundary.

Conceptual Traverse City to Charlevoix Trail

The Traverse City to Charlevoix Trail (TVC-CHX Trail) has an ambitious goal to connect two regional trail networks that link the communities of Traverse City, Acme, Elk Rapids, Eastport, Norwood and Charlevoix. This requires combining what trail users want with suitable land and road rights of ways that can support a non-motorized recreation and transportation trail. The trail will pass through beautiful scenery and provide access to parks, beaches, natural areas, communities, and other destinations along the US-31 corridor. The project builds on the vision of more than a decade of community groups working to make trail connections.

The Traverse City to Charlevoix Trail Concept Plan and Development Guide:

1. Makes the case for completing the gap in the 325 mile regional trail system by demonstrating the value and benefits of trails and documenting the economic impacts that trails have in this region.
2. Identifies and assesses route options for a contiguous bicycle and pedestrian trail from Acme Township (Traverse City) to Charlevoix Township (Charlevoix).
3. Provides an overall development concept plan for the preferred trail route including; recommendations for pedestrian and bicycle facilities, cost estimates for trail construction, maintenance and management options, and purposed next steps for implementation.
4. Offers resources and information to support trail implementation, including: options and recommendations for management and maintenance partnerships; tools to build community support, project phasing and funding strategy.



Conceptual Acme Township Segment Overview

The Acme Segment connects to the TART Trail at Bunker Hill Road and is a shared-use path on the NE side of Bunker Hill Road to US-31. The trail crosses US-31 at the stoplight and runs along the west side of US-31. Right-of-way widths are narrow, so use of public park spaces and easements are desired. As it enters into Acme's residential area north and west of M-72, shared roadway continues toward the Lochenheath development where the trail switches back to a shared-use path along the west side of US-31. The trail will cross to the east side of US-31, possibly near Kesner Road, and will utilize the US-31 right-of-way and/or easement(s). The right-of-way is generally 150' wide with narrower sections across from Valley Estates and near Yuba and Petobego Creeks. The trail includes stream crossings at Yuba and Petobego Creeks, which are envisioned to be structures built into the existing foreslopes.

Trail Length by Segment

Acme to Elk Rapids	11 Miles
Elk Rapids to Eastport	16.3 Miles
Eastport to Charlevoix	18.5 Miles

Trail Length by County

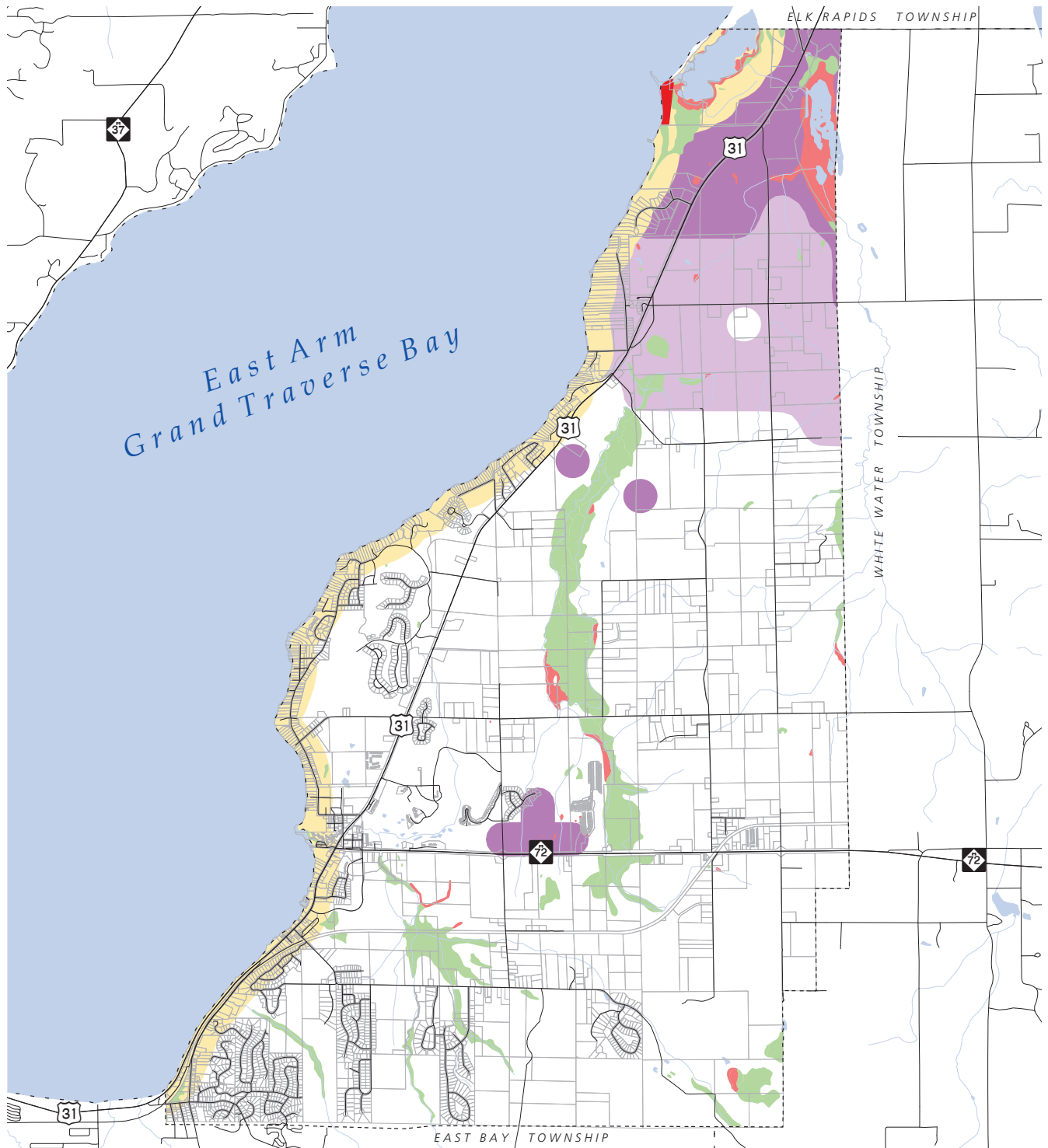
Grand Traverse	8.4 Miles
Antrim	26.1 Miles
Charlevoix	11.3 Miles

Total Length of Trail 45.8 Miles

Traverse City to Charlevoix Trail Vision

The Traverse City to Charlevoix non-motorized transportation and recreation trail connects Traverse City's TART Trail to Charlevoix's Little Traverse Wheelway and the rest of the Northern Lower Peninsula Trail network. The Traverse City to Charlevoix Trail is well maintained and effectively managed. People are drawn to the trail by the wonderful opportunity to travel through exceptional scenic and agricultural landscapes which showcase the region's tremendous recreational, natural, and community assets.





Acme Township

Natural and Sensitive Landscapes

Data Sources: Michigan Geographic Data Library, Michigan Department of Natural Resources, Michigan Natural Features Inventory, Grand Traverse County Equalization, Grand Traverse County GIS

- | | |
|-------------------|---|
| Parcel Boundary | DNR Coastal Zone Management Area |
| Township Boundary | High-Risk Area for Erosion |
| Major Road | High-Risk Area for Endangered Species |
| Minor Road | Moderate-Risk Area for Endangered Species |

Wetland Type:

- | |
|---------------------------|
| Emergent |
| Lowland, Shrub, or Wooded |

Acme Township Parks Master Plan

DESCRIPTION OF THE PLANNING PROCESS

The planning process for the Acme Township Parks System is not an isolated event; instead, it is part of a multi-year planning effort to forge a vision for the Township derived from community input. In the previous Parks System Plan, the three goals were: Access to Grand Traverse Bay (ensure that future generations have access to the East Grand Traverse Bay shoreline), Attractive Waterfront Parks (ensure that waterfront facilities are well maintained and have a diversity of activities) and Connectivity between uses (require non-motorized trail connections between parks, retail and residential developments). These goals are still relevant today.

The planning process included an online survey, a community description, administrative structure, funding, and a thorough recreation inventory. An analysis of the recreation inventory was done in comparison with national standards. Upon completion of the analysis, goals and objectives were created based on the results of the wants and needs of the community. An action plan was then implemented to guide the next five years for Acme Township.

The Parks and Trails Committee met several times during the planning process to review the plan, the goals and objectives and five year action plan. A public meeting was held to gather community input. The revised plan was adopted by the Township Board on January 8, 2019.



Bayside Park Phase Three

The concept plan for Phase III at Bayside Park includes a centrally located pavilion for community gatherings and potential programming opportunities, such as Concerts in the Park, outdoor movie screenings, or other entertainment events designed to bring the community together.

Additionally, Phase III may incorporate a second entrance on the south side of the property to serve primarily as a loading/unloading zone and to provide ADA accessible parking spaces on this side of the park. The proposed parking lot would create a circle drive surrounding the parterre garden managed by the Sweetwater Evening Garden Club.

Other improvements include renovations to the existing bath house with an attached pergola sitting area and a second bathroom facility in the existing structure along the park's southern boundary. Many of the improvements prescribed in Phase III will be dependent on the intensity of park usage as a result of the Phase II improvements and are subject to change based on community input.





Bunker Hill/US-31 Canoe and Kayak Launch and Marina Area

One of the parcels held by Acme Township is located on the water at the intersection of Bunker Hill Road and US-31/Bay shore Drive, a convenient location for small-boat users to access the water. The site has been used for some time as an impromptu small-boat launch, and it has the remnants of a concrete launch ramp and a gravel surface for parking. The current parking area design allows stormwater runoff to travel unchecked over gravel and earth surfaces to the Grand Traverse Bay.

The conceptual plan for this parcel includes removal of the concrete ramp, placement of a boardwalk canoe and kayak launch with a universally accessible ramp for boaters of all abilities, a changing room/restroom facility, sidewalks, decorative fencing and landscaping, and a paved parking area with pervious surfaces that would protect the lake from surface runoff by facilitating stormwater infiltration. Temporary storage for kayaks and canoes will be provided at the accessible dock. An adjacent small beach area is also included.

An additional pedestrian-activated, high-intensity crossing is proposed at the intersection of US-31 and Mount Hope Road.

Community Survey Results

The Acme Township Planning Commission and Parks and Trails Committee went through the process of updating the Community Master Plan and Parks and Recreation Plan. Community engagement is a valuable part of the process in soliciting public input. An online survey was made available to the public between September 13 and October 19, 2018. The survey was advertised on the Township's website and social media outlets. Hard copies of the survey were also made available at the Township offices during business hours. A total of 125 surveys were completed.

A similar survey was done for the last Community Master Plan and Parks and Recreation Plan. Online surveys are designed to gather honest feedback from the citizens to help guide the planning process for the future.

Residence

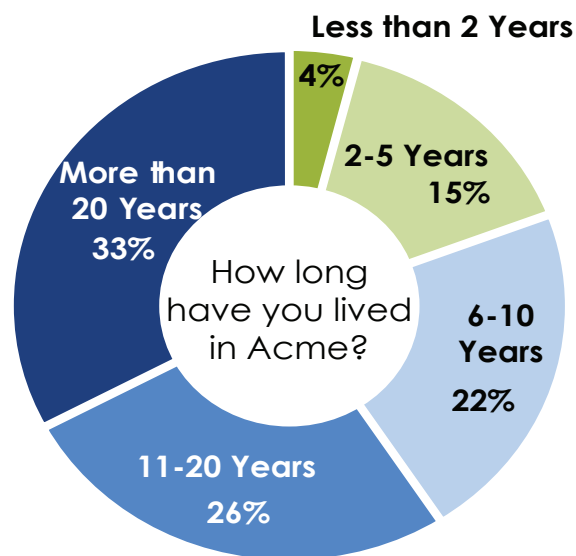
The majority (33%) of respondents said that they have lived in Acme Township for more than 20 years. 26% of respondents have lived in the Township for 11-20 years. Only 5 people said that they lived in the Township less than 2 years.

Property Owners

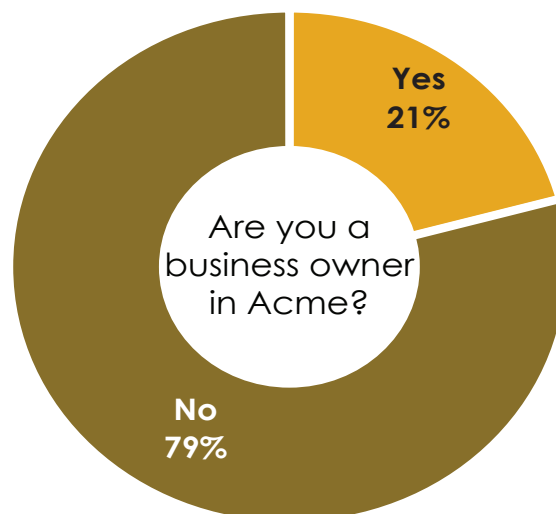
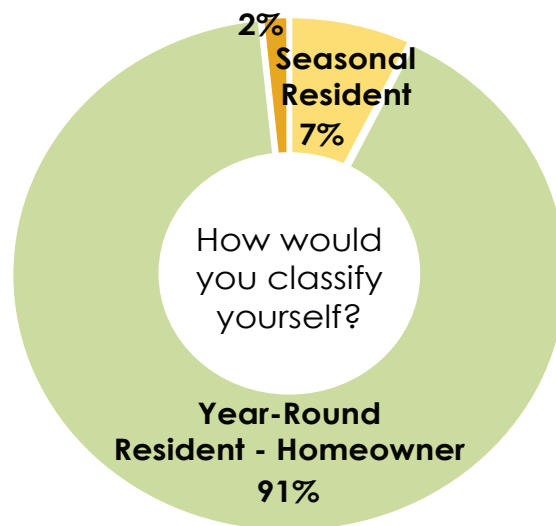
A majority (91%) of people classified themselves as year-round resident homeowners. Just over 7% of respondents are listed as seasonal residents with a primary residence located in another community. Only 2% of the people said they were year round residents that rent a housing unit.

Business Owners

Nearly 21% of the survey takers were business owners in Acme Township.

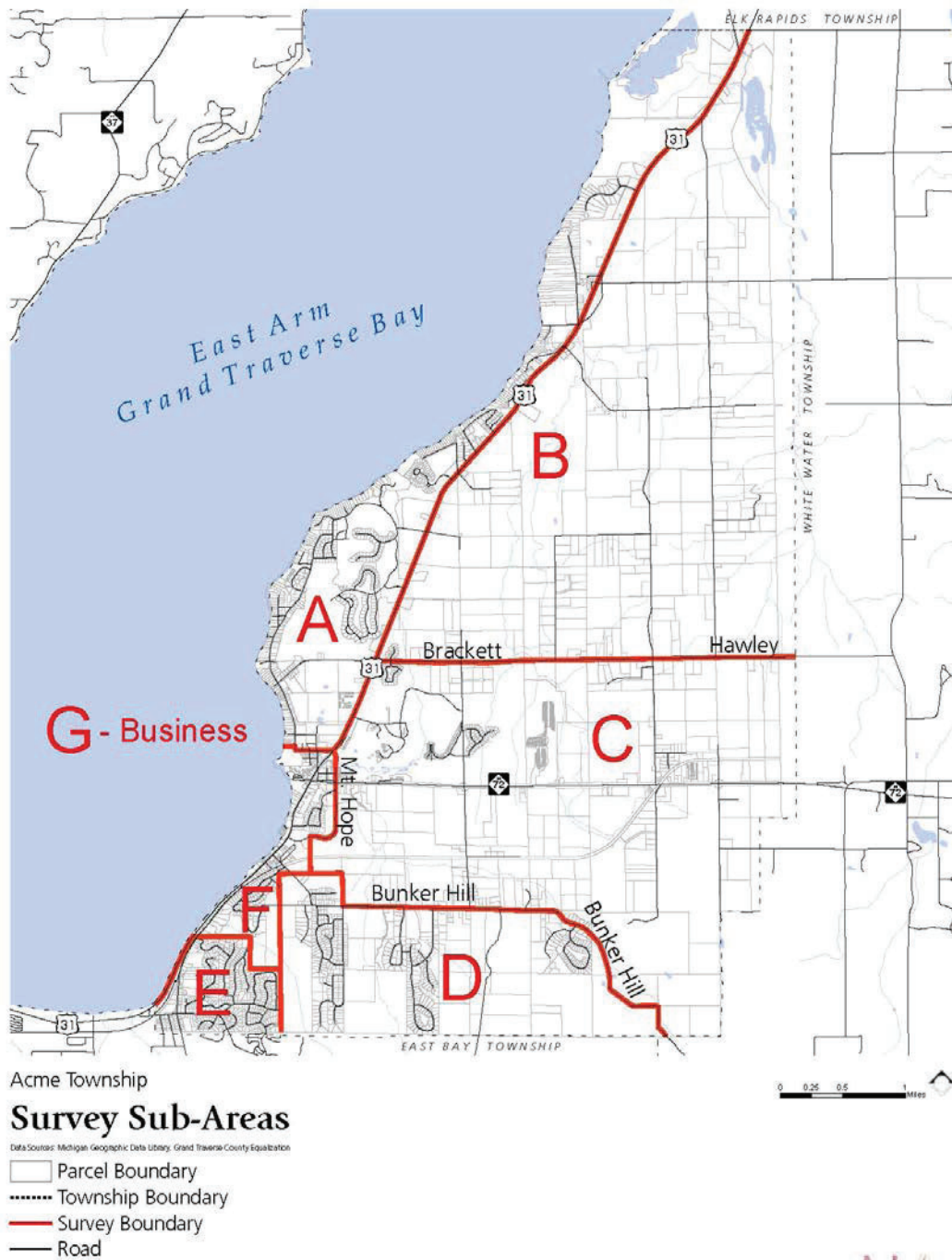


Year-Round Resident - Renter



Location

The survey asked the respondents to indicate in which area of the Township the lived according to a map that was enclosed. 38% of the people recorded that they lived in the Cranberry Woods - D, Springbrook Hills and Wellington Farms subdivisions. Just over 27% of people live near the shoreline north of M-72 and west of US-31 - A. The rest of the respondents were evenly dispersed throughout the Township.

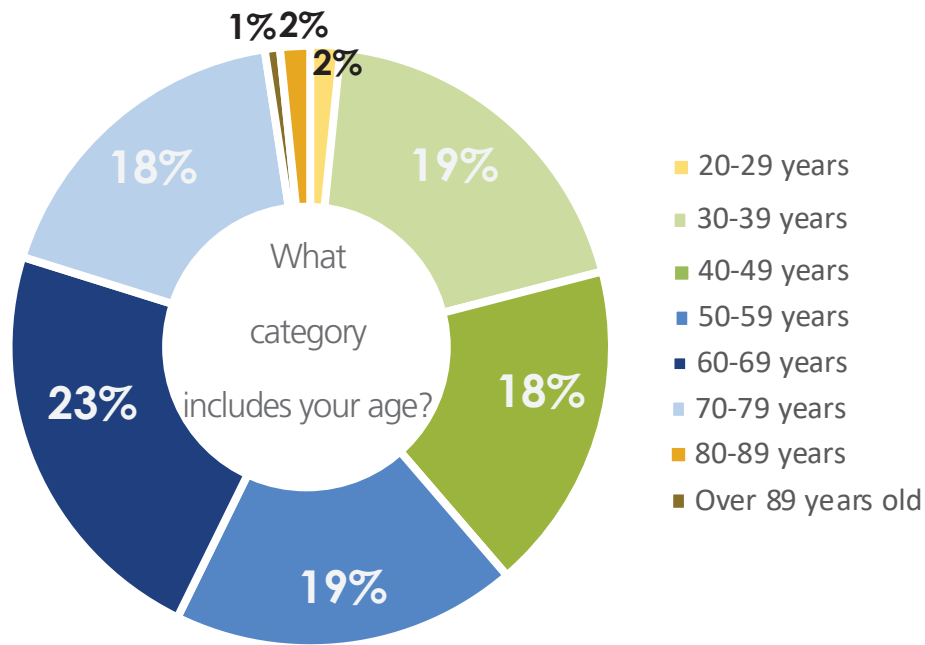


Occupation

There was a wide range of occupations listed, but the majority of people (24%) are retired. 19% of the people indicated they work in the education, health and social services professions. Another 15% of people recorded that they worked in the scientific and management professions.

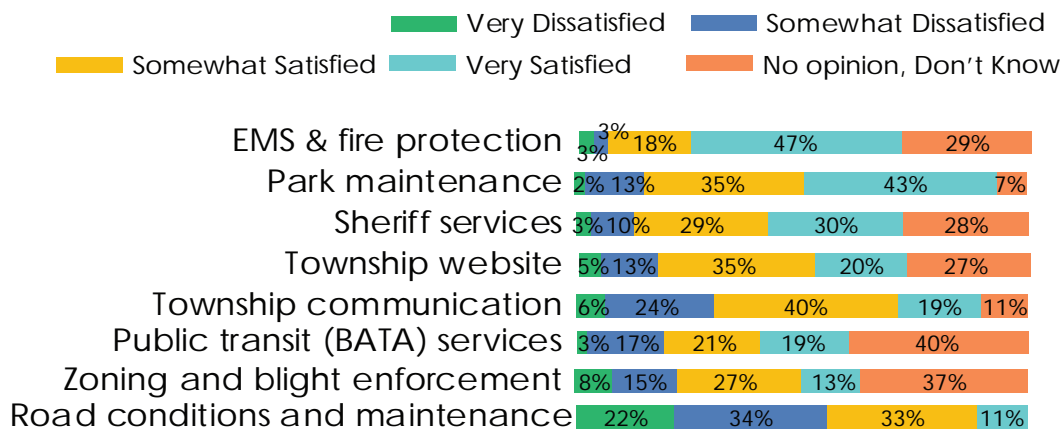
Age

The age of the survey respondents was distributed relatively even across the board. Below is a chart that shows the age categories.



Services Provided

The survey asked the participants to rate their satisfaction with a number of services provided within the Township. Below is a chart highlighting the responses.



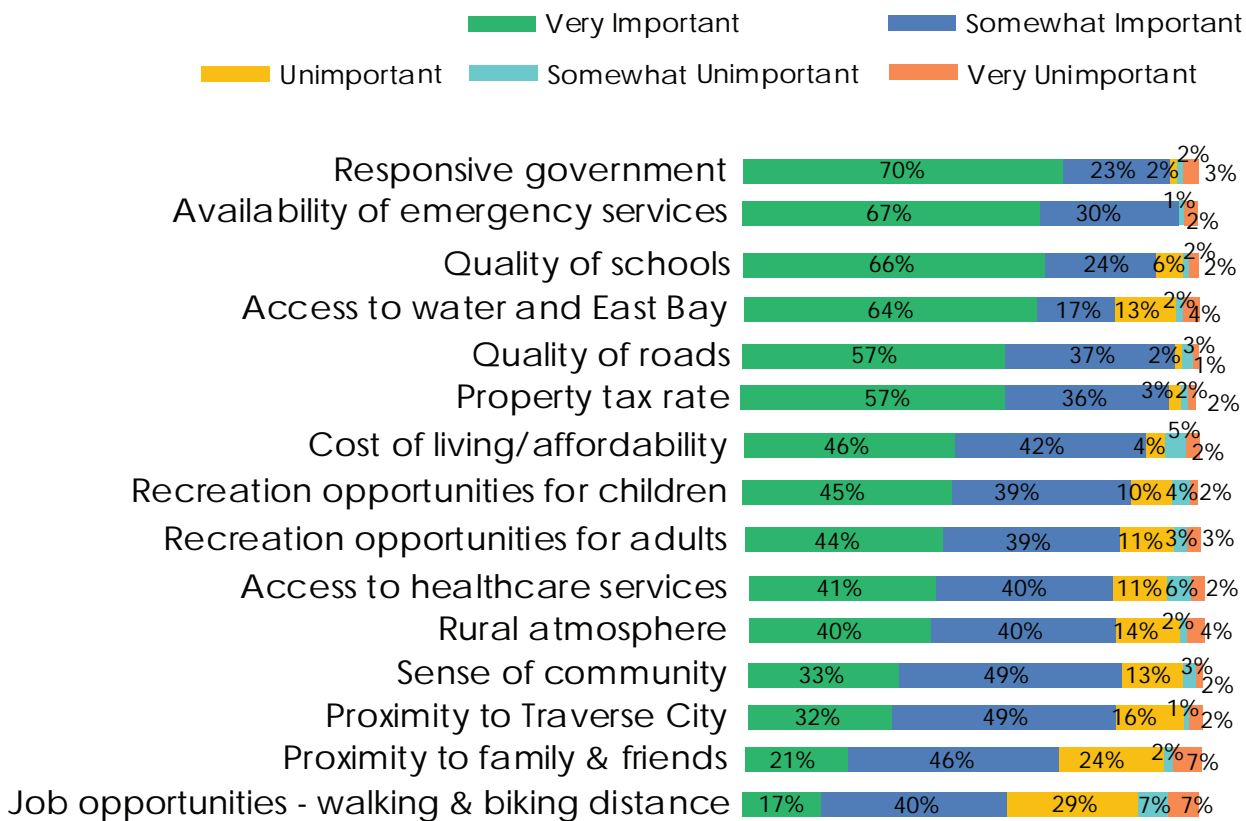
Long Range Planning

Acme Township will be faced with many issues in the next decade that are critical in the long-range planning. A series of items were listed, and respondents rated them from “Very Important” to “Very Unimportant”.

The top five very important items were:

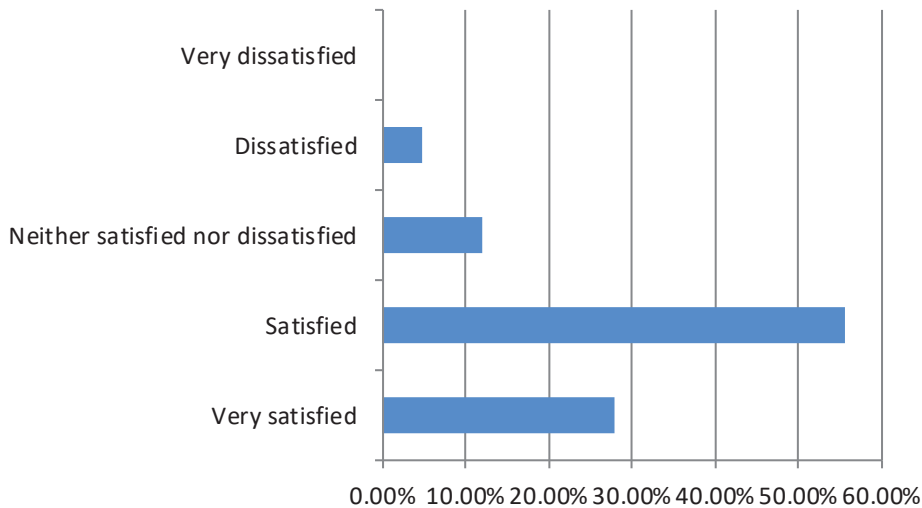
1. Responsive government (70%)
2. Availability of emergency services (66.9%)
3. Quality of schools (66.1%)
4. Access to water and East Bay (64.5%)
5. Property tax rate (57.7%)

The survey asked participants to rate the Township in a variety of topics. For the most part, the topics were rated at an “average” level by the participants. Over 65% of people rated access to water and East Bay as “excellent” or “above average”. One of the topics that was rated on the lower end was the job opportunities within walking or biking distance of Acme Township. Over 53% of people rated it as “below average” or “poor”.



Quality of Life

The survey respondents rated the overall quality of life in Acme Township. 56% of the people declared that they were “satisfied” and 28% reported that they are “very satisfied” with the quality of life.



Headlee Amendment

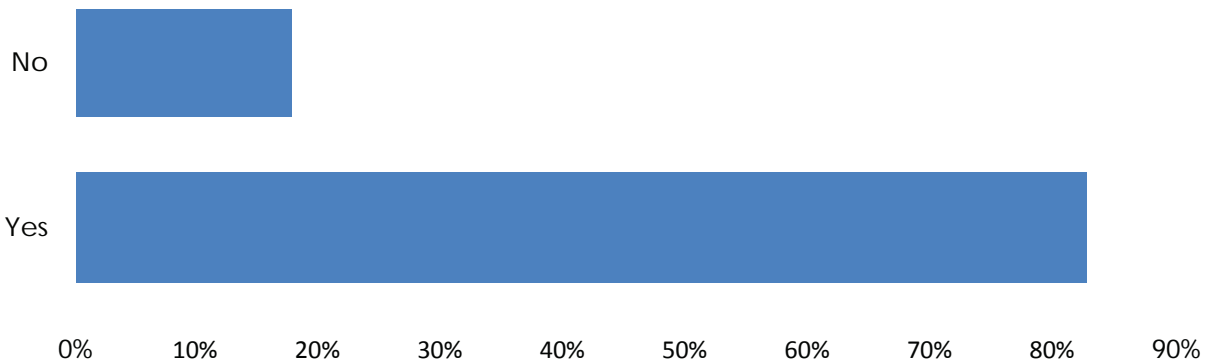
Due to the Headlee Amendment, the millage rate that Acme Township is allowed to assess has decreased year over year to 0.7307. The survey asked if people would support a reset in the millage rate to 1.00 in order to improve Township services. 74% of the people responded “yes” to the increase.

Economic Growth Opportunities

The survey asked participants to rate several economic growth opportunities. They were asked to rate the opportunities from “not a priority” to “high priority.” The top priorities for the respondents were Retail (41%), Recreation/Tourism (39%) and Residential (single family) at 36%. The medium priorities with the highest ratings were Agricultural tourism (48%) and Restaurants and Entertainment (48%). Large scale retail and Industry were not rated as a priority.

Dedicated Parks Millage

The survey asked the residents, “Would you support a small dedicated millage levied specifically for maintenance and improvemetns to the Township’s recreational assets, including parks and trails?” The respondents overwhelmingly said yes at 83%.



Funding

Survey-takers were asked which funding initiatives the Township should be pursued for future planning. As expected “road maintenance and reconstruction” received the top vote for proposed projects.

The following initiatives were supported even if it raised the taxes.

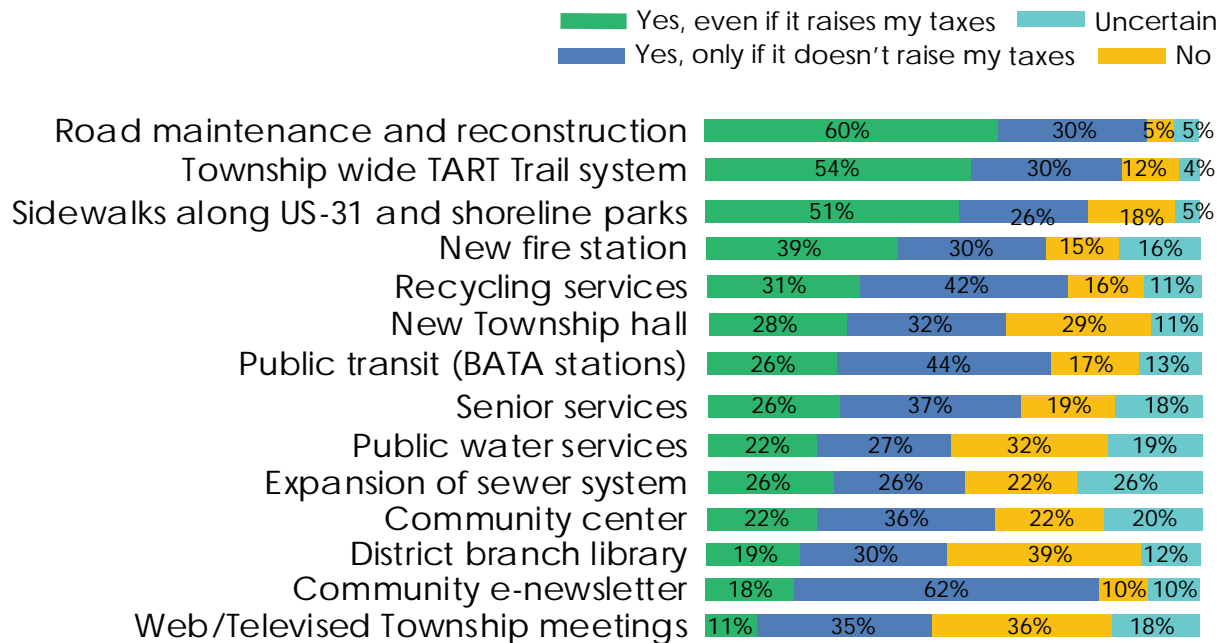
1. Road maintenance and reconstruction (60%)
2. TART Trail system (54%)
3. Sidewalks along US-31 and shoreline parks (51%)

The following initiatives were supported only if the taxes are not raised.

1. Community E-Newsletter (62%)
2. Public Transit (BATA stations) (44%)
3. Recycling services (42%)

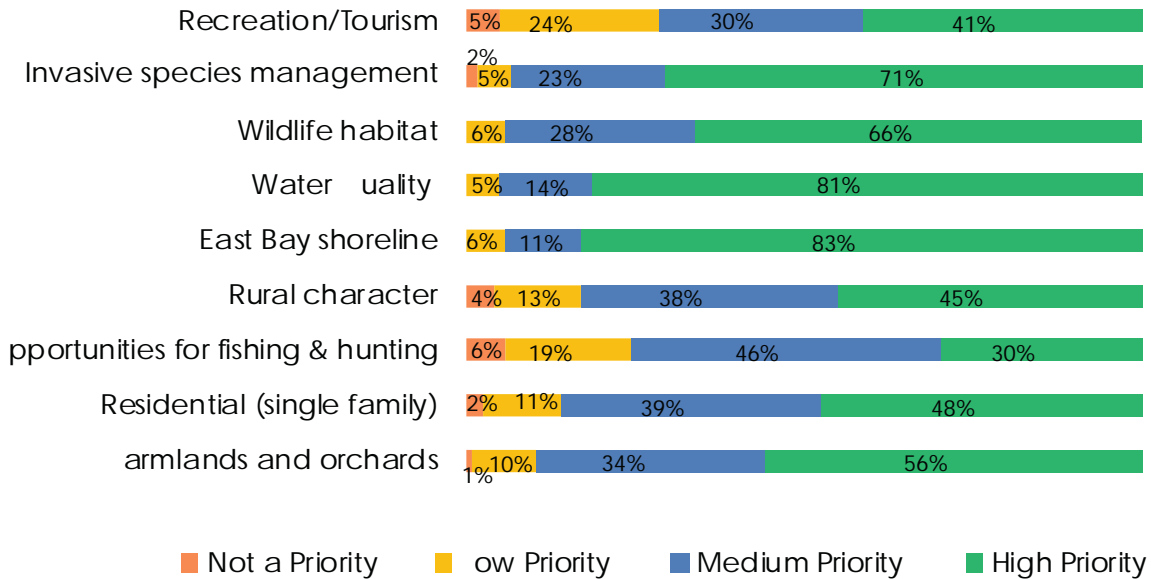
The following initiatives were not supported.

1. District branch library (39%)
2. Web/televised Township meetings (36%)
3. Public water services (32%)



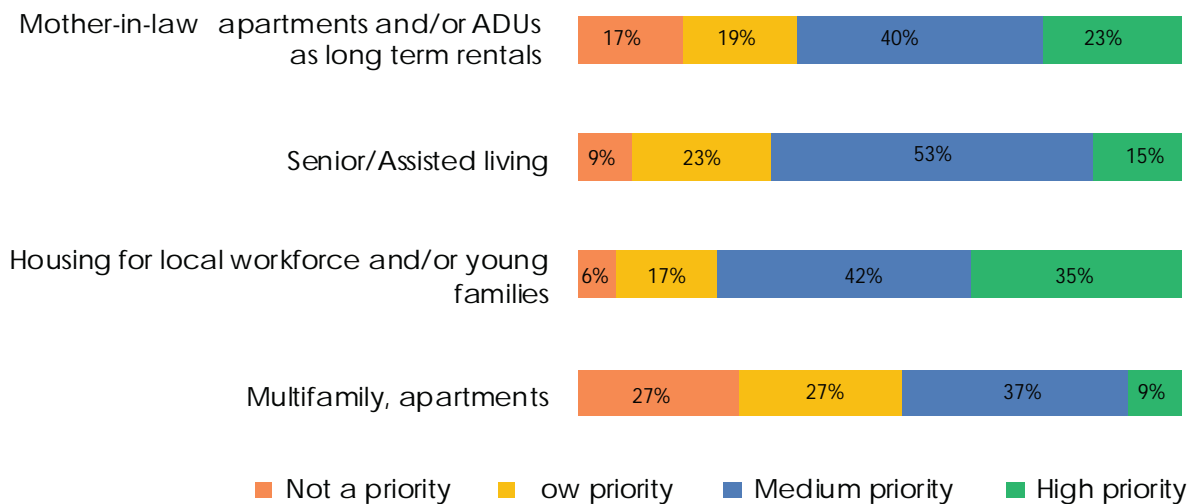
Priorities for Protection

The survey takers rated the following items for priority for protection in the Township.



Housing

The following chart shows how the responses rated the housing options.

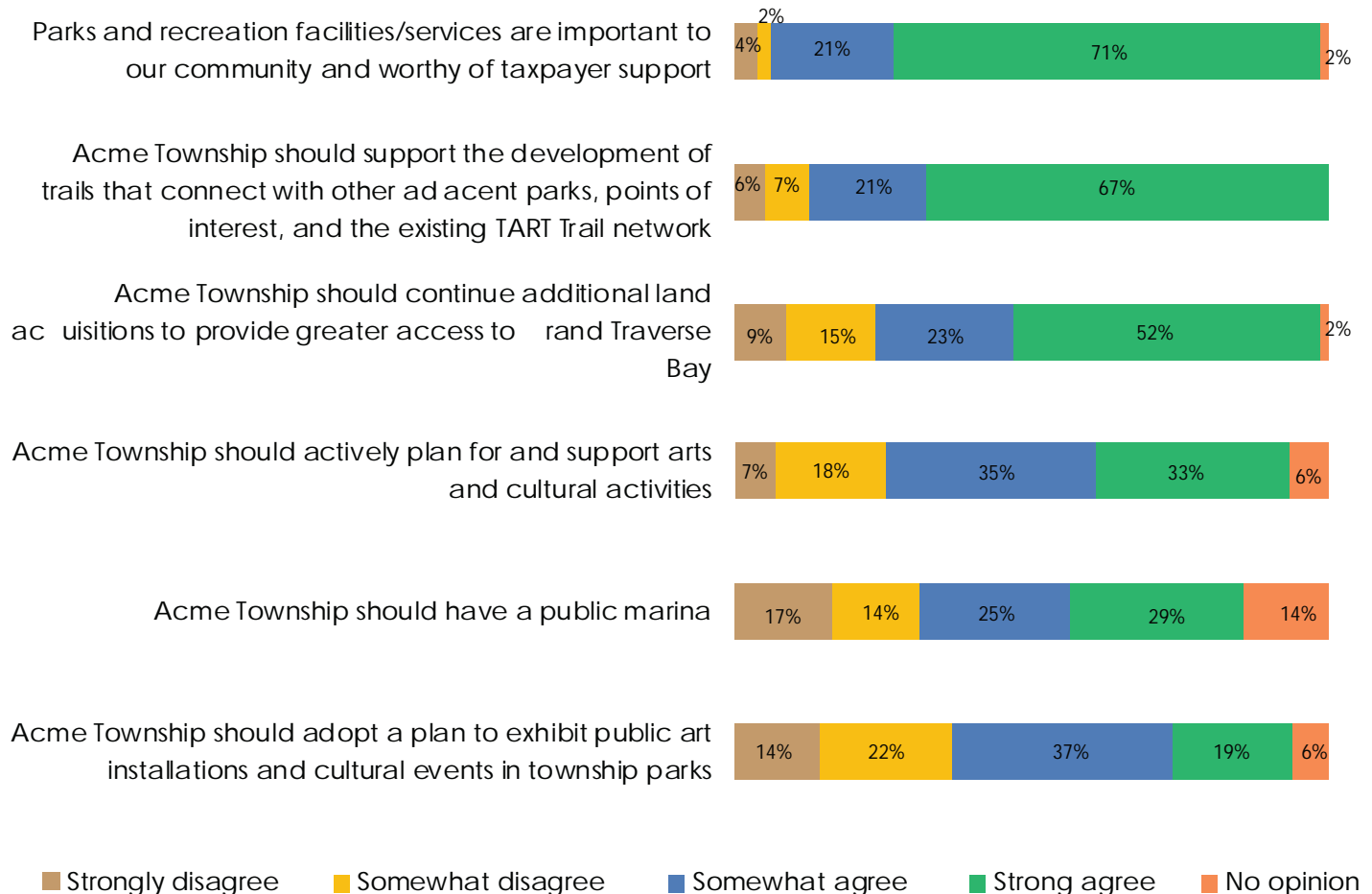


Park Use

This question listed all the parks and facilities that are in Acme Township and asked survey participants to record, on average, how often they use the facilities. Just over 30% of people that took the survey visit the TART Trail and the VASA Trail at least once a week. People visit Bayside Park (19%) and Sayler Park (14%) several times a month. 13% of the people said they visit Deepwater Point Natural Area at least once a month. Sayler Park is used by 40% of the survey respondents several times a year. 35% people also use Yuba Creek Natural area several times a year.

Parks and Recreation Services

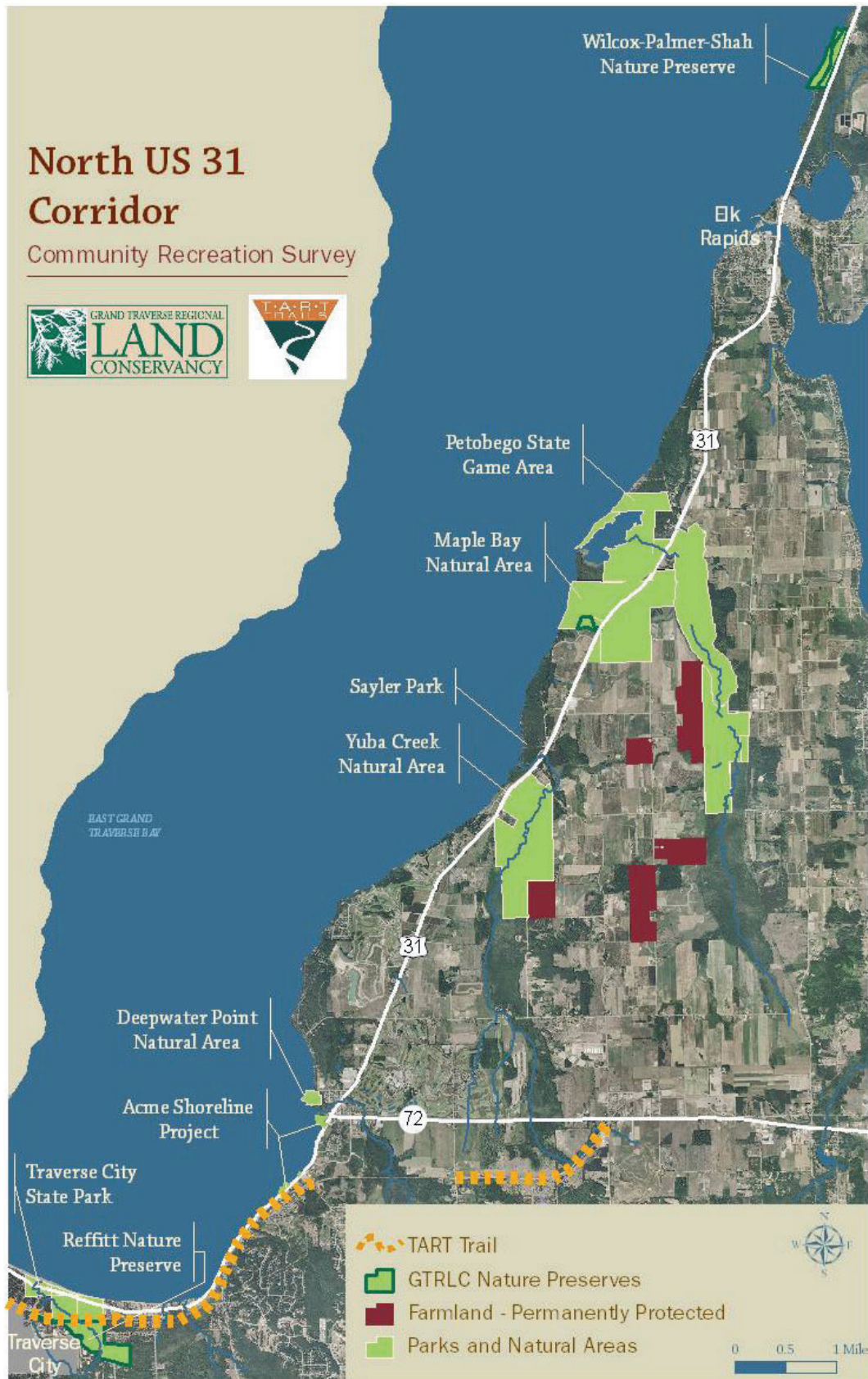
The survey asked participants to rate their level of agreement with the following statements.



Parks and Recreation Facilities

The survey asked the participants to rate their top five favorite Park and Recreation Facilities they feel Acme Township should plan for and develop. The scores were analyzed and then weighted based on the responses. Below is a list of the top five answers.

1. Nonmotorized trails (i.e. TART Trails)
2. Indoor athletic facilities
3. Community gardens/plots
4. Walking/nature trails
5. Swimming beach



North US 31 Corridor Survey Summary

In the spring of 2012, the Grand Traverse Regional Land Conservancy (GTRLC) and Traverse Area Recreation and Transportation Trails (TART), Inc. teamed up to conduct a survey of the public use and attitudes about the US-31 corridor to “assure that future plans are aligned with public desires for land use, non-motorized transportation, and outdoor recreation.” The survey was available to the public on GTRLC’s website (gtrlc.org). Respondents were primarily over the age of 30 and were year-round residents.

Survey respondents were asked about the importance of various features, how often they enjoy various recreation activities, which parks they use, which parks they avoid, their overall satisfaction with places within the US-31 corridor, and which types of amenities they would like to see.

The item that ranked as the most important in the US-31 corridor were natural lands or open spaces for non-motorized recreation. Second was paved non-motorized trails, followed by access to water for non-motorized boating, natural lands or open spaces for public beaches, and scenic views. Next were natural lands featuring wildlife habitat, followed by wetlands, working agricultural lands, and lastly buildings or places of historical or architectural interest.

The activities that survey respondents said they participated in the most times per year were walking/hiking/running, swimming/beaching, paved biking, picnicking, and road biking. These require little equipment or preparation. Next were cross-country skiing, paddling, mountain biking, snowshoeing, and artistic activities. Rounding out the bottom of the list were non-motorized commuting, fishing, trail running, hunting, and kite-boarding.

The most popularly used area was the TART Trail, with 89.9% of respondents reporting trail use. Other parks or natural areas that over a third of respondents used were the Maple Bay Natural Area (33.6%), Yuba Creek Natural Area (36.9%), Acme Shoreline Park (36.8%), and the Traverse City State Park (42.3%). When asked

which parks or natural areas respondents avoid, the Traverse City State Park was the most avoided park at 59.4%. All other parks listed were avoided by less than a third of respondents, including Petobego State Game Area (32%), Maple Bay Natural Area (22.8%), and the TART Trail (8.7%). The most common reason for avoiding parks was congestion of people, noise, traffic, access or lack of security.

Survey respondents were asked how satisfied they were with regards to the recreational amenities available for different groups: children under 13, teenagers 13–18, adults 19–30, adults 31–55, adults 56+, and persons with physical challenges. Respondents were most satisfied with amenities available to adults 31–55, adults 19–30, and adults 56+. The bottom-ranked groups were teenagers 13–18, children under 13, and persons with physical challenges.

The top six types of amenities that respondents would like to see more of along the N US-31 Corridor were all non-motorized trails that connected various locations, such as villages and town centers, parks and natural areas, and residences with parks and natural areas. More parks and natural areas, more public beaches/swimming areas, protection of working farms, more running or biking trails, and more areas to hunt or fish rounded out the list.

Anonymous surveys are a forum for respondents to have a voice, especially if a section for comments is included. This survey received 195 comments and suggestions about additions to the non-motorized network, signage and promotion, beaches, environmental preservation, traffic, amenities, taxpayer burden, and the process of building public support.

TRENDS, ISSUES, AND OPPORTUNITIES

National Recreation Trends

The National Recreation and Park Association (NRPA) published a list of future trends for 2018 that will influence the direction of recreation planning and programming. The three pillars of NRPA include: Health and Wellness, Conservation and Social Equity.

Local Park and Recreation agencies can provide crucial health and wellness opportunities for all populations in communities across the county. We need to be protecting open space, connecting people to nature and engaging conservation practices. Providing all people with access to the benefits of parks and recreation is an essential service.

The following trends should be considered in the development of the Acme Township Parks Master Plan.

Health and Wellness

- America faces serious health issues that include rising rates of chronic disease, sedentary lifestyles and poor nutrition.
- Offer an affordable and accessible solution.
- Promote healthy eating and physical activity.
- Expanding access to parks and trails.

Conservation

- Play a vital role in the protection of our environment through green infrastructure, conservation of public lands, providing wildlife habitat and more.
- Connecting to nature and local parks are essential in creating environmental stewards who will advocate for and protect our most precious public resources – our land, water, trees, open spaces and wildlife.

- Protect resources including significant open spaces and natural habitats, original landscapes, wetlands and natural drainage courses, water and energy resources.
- Encourage environmentally sensitive lifestyles

Social Trends


- Provide access to parks and recreation programs and facilities for all people regardless of age, race, income level, or abilities.
- Building parks builds community and brings all people together.
- Desire to preserve and maintain cultural heritage.
- Volunteer—making more effective and efficient use of volunteers.

Economic Trends






- Park and Recreation Departments are significant employers and their operations/capital spending generate significant economic impacts on local communities.
- High quality of life attracts workers, which attract employers, which attracts more investments and jobs.
- High quality parks and recreation services can play a role in retaining quality businesses.
- Key partners to drive greater parks and recreation involvement include: schools, transit agencies, developers, downtown development districts and metropolitan planning organizations.

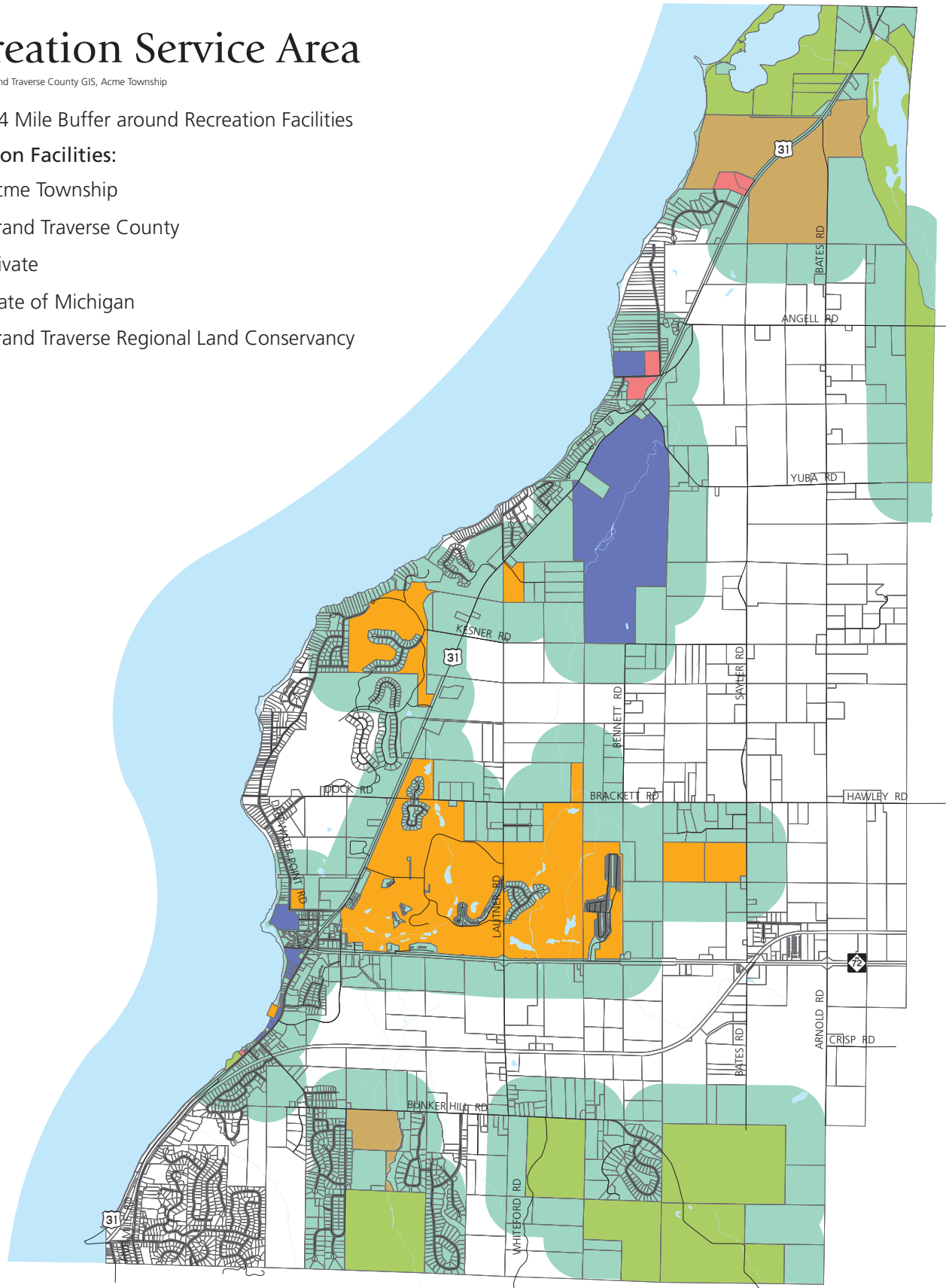
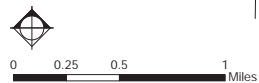
Recreation Service Area

Data Sources: Grand Traverse County GIS, Acme Township

 1/4 Mile Buffer around Recreation Facilities

Recreation Facilities:

-  Acme Township
-  Grand Traverse County
-  Private
-  State of Michigan
-  Grand Traverse Regional Land Conservancy



Demographic/Urban Pattern Trends

- Aging of society—by 2030, baby boomers will be senior citizens (1/3rd of the population). As the number of retirees increases, so will the demand for midday recreation opportunities.
- Increasing demand for less active outdoor recreation pursuits and facilities (golf, walking, gardening, etc.).
- Proportion of middle-aged Americans—sharply increased in the 1990s.
- Increasing cultural diversity.
- Greater number of smaller households.
- Mobility of residents—residence by choice with diminished emotional/social attachment to service providers.
- In the 1950s, 50% of households had children. Today, 75% of households have no children. By 2030, 86% of all households will have no children.
- Traditional single-breadwinner families make up less than 15% of all households.

The New Economy

- Talented and well-educated people choose where they want to live and then find work there instead of following jobs (66% of 25- to 34-year-olds say this).
- Desirable places to live are high-quality, clean, green, and close to open space for recreation.
- Talent becomes concentrated in these high-quality areas, which attracts businesses.

Implications of Trends of Parks and Recreation

- Greater emphasis on comprehensive open space planning and preservation.
- More greenway planning along corridors, bikeways, pathways, and passive recreation.
- More emphasis on historic and cultural resource planning.
- Increased importance of recreation and open space, contributing to more walkable, livable, and sustainable communities.
- More stakeholder involvement, as in adopt-a-park projects, park watch, and community volunteering.
- The legitimization of parks and open spaces as part of the urban land use planning and development process.
- More collaboration between parks and schools through joint acquisition, development and use of lands, and joint construction and use of facilities.
- Family-oriented recreation centers, with facilities geared to “one-stop shopping.”



ENGAGING THE NEXT GENERATION

In Acme Township, the largest segment of the population is made up of Millennials and Baby Boomers. These two groups, Baby Boomers being between the ages of 53 and 70 (30%) and Millennials being between 13 and 31 (22%), make up the population of Acme Township. The next-largest group, the GenXers (ages 32–52), make up 20% of Acme Township. As the Millennials come of age, they will have a greater impact on the economy, and they are quite different than the generations that came before. Park attendance has been declining since the rise of the GenXers, who visited parks as children but are less likely to do so in adulthood. Millennials are even less likely to visit parks as they tend to prefer socialization and indoor activities. Key characteristics used to describe Millennials are special, team-oriented, sheltered, confident and tech-savvy, pressured, achieving, and conventional. Knowledge of the characteristics and values of Millennials can be used to engage them in park settings.

CHARACTERISTICS OF MILLENNIALS AND HOW TO ENGAGE THEM IN PARKS		
Characteristic	Traits	Ways to Engage Millennials
Special	Used to receiving awards, strong relationships with supportive parents	Give rewards for participating in projects or completing tasks or challenges
Team Oriented	Value teamwork, belonging, collaboration, and service	Offer opportunities for volunteer service and encourage social and sporting groups to hold events at parks
Sheltered	Led structured lives as children, enjoy spending time outdoors and socializing with friends and family	Encourage use of electronic tools such as GPS and the Internet, feature safety and structure in park literature
Confident and Tech Savvy	Optimistic, upbeat, believe that they can improve the world	Share information freely, allow information sharing, survey visitors online, provide audio tours and promotional videos
Pressured	Feel pressured to achieve and behave, avoid personal risk, not as interested in history or reading	Relate historical events to current events, include objects, visuals, and sounds for interpretation, minimize need for reading
Achieving	Expected to do great things, make the country a better place	Use electronic tools to communicate and encourage community involvement, offer challenges and quizzes
Conventional	Respectful of authority, civic-minded, respectful of cultural differences because they are diverse	Promote benefits of parks to healthy work/life balance, design facilities for diverse users and volunteers

TYOLOGY OF PARKS IN ACME TOWNSHIP

When determining what types of features and amenities belong in a particular park, it is useful to first determine the classification of the park in question. The Michigan Department of Recreation has created “A Recommended Classification System For Local And Regional Recreation Open Space and Trails,” which outlines 16 types of open spaces and their descriptions.

For use in Acme Township, a classification system has been devised that consists of just four types of open spaces: Natural Parks, Linear Parks, Rural Parks, and Urban Parks. Each type of park has a different use and subsequently different types of amenities typically found in them. This is useful for determining what kinds of features should be planned for and developed in each park, which maintains a diversity of uses between parks. In this way, each park can develop a unique character and identity within the community.



Natural Park – Yuba Creek Natural Area



Linear Park – TART Trail



Rural Park – Sayler Park



Urban Park – Bayside Park

TYPOLOGY OF PARKS IN ACME TOWNSHIP		
Park Type	Characteristics	Example
Natural	<ul style="list-style-type: none"> Minimally developed Low-impact design features such as woodchip paths, grass, or gravel parking lots The goal is to preserve the natural beauty of the landscape or natural features Typically includes interpretive signage and walking paths 	Yuba Creek Natural Area Deepwater Point Natural Area
Linear	<ul style="list-style-type: none"> Long, narrow Used for non-motorized transportation Connects destinations Typically includes wayfinding signage and mile markers, paved paths, occasional benches, and water stations 	TART Trail Vasa Pathway
Rural	<ul style="list-style-type: none"> Provides recreational amenities for small to medium gatherings in a rural setting Universally accessible but lower-impact design features such as gravel paths are typical Located away from the town core Typically includes playgrounds, shelters, restroom facilities, outdoor grills, benches, picnic areas, and athletic courts 	Sayler Park
Urban	<ul style="list-style-type: none"> Provides recreational amenities for a wide range of users Located in the town core Universally accessible amenities used throughout Can be used for larger gatherings and community events Can include concrete paths, pavilions, play structures, pools or splash pads, plazas, amphitheaters, lighting, restrooms, athletic courts, and a wide variety of other recreational facilities 	Bayside Park



GOALS AND OBJECTIVES

The goals and objectives for Acme Township are derived from the inventory of existing recreation facilities, public input, and community demographics, and they serve as a guide for future planning decisions.

Goal 1: ACCESS TO GRAND TRAVERSE BAY

Vision: Increase access to Grand Traverse Bay for residents of all abilities.

Objectives for Success

- Designate and promote a blueway route with specific Shore Access Zones
- Provide at least two accessible canoe/kayak launches along the blueway
- Improve ADA Accessibility to the water along the Acme Township shoreline

Support from Public Input

- 63% of people felt that access to water and East Bay was very important
- Swimming beaches and public boat docks were in the top eight items survey respondents thought Acme Township should plan for and develop
- 83% of survey respondents rated the East Bay Shoreline as a priority for protection by Acme Township
- 77% of survey respondent rated opportunities for fishing and hunting as a medium to high priority.

Goal 2: ATTRACTIVE WATERFRONT PARKS

Vision: Beautify shoreline parks to provide bayside recreation opportunities for the community while protecting the water quality.

Objectives for Success

- Continue selective property acquisition as shoreline properties become available
- Provide recreation amenities for families with young children, including play equipment and restroom facilities
- Provide public swimming beaches with adjacent naturalized shoreline to prevent erosion
- Maintain or improve water quality through stormwater runoff mitigation

Support from Public Input

- 46% of survey respondents chose swimming beaches as their first or second choice item that Acme Township should plan for and develop
- 80% of survey respondents rated water quality for streams, watersheds, and East Bay as a high priority for protection by Acme Township
- 45% of survey respondents chose play structures for children as their first or second choice item that Acme Township should plan for and develop

Goal 3: CONNECTIVITY

Vision: Connect recreation assets through non-motorized transportation routes.

Objectives for Success

- Designate local non-motorized spurs that connect existing parks, various community points of interest, and residential/commercial areas to the designated regional routes (US Bike Route 35 and the TART Trail) as well as to intra-township trails to be identified in the action plan
- Increase blueway/greenway trail awareness and ease of use through designated trailheads with route maps at existing parks
- Create connection points between different non-motorized forms of transportation (blueway/greenways) at shore access zones and trailheads

Support from Public Input

- 55% of people support funding for the Township wide TART Trail system and 52% support funding for sidewalks along US-31 and shoreline parks even if it raises their taxes.
- 30% of survey respondents reported using the TART Trail at least once a week, the highest of any recreation facility in the Township
- 62% of survey respondents chose non-motorized trails as their first-choice item that Acme Township should plan for and develop

Goal 4: CULTURAL ARTS

Vision: Increase arts and cultural events in the park system.

Objectives for Success

- Create and implement Art in the Park programs.
- Identify key stakeholders, explore and establish partnerships to create sustainable programs.
- Increase arts and cultural events in the park system to create a place for people to gather and socialize.

Support from Public Input

- 33% of survey respondents listed public art installations as their number one choice of activities to plan and develop for.
- 32% of people said the Township should actively plan for and support arts and cultural events.

Goal 5: BRANDING AND SIGNAGE

Vision: Increase a clear and precise awareness of the Acme Township park system.

Objectives for Success

- Establish a unique identity for the park system through new signage.
- Identify content and a theme for effective marketing.
- Build credibility through brand recognition.
- Wayfinding system

Goal 6: MAINTENANCE AND FUNDING

Vision: Provide a maintenance plan and funding sources for the Acme Township park system.

Objectives for Success

- Create and implement an annual maintenance plan for the entire park and trail system.
- Establish a campaign for a dedicated Parks millage for future funding.
- Implement a rental and reservation system to create sustainable revenue.
- Establish procedures for invasive species management and education.

Support from Public Input

- 83% of survey respondents said they would support a small dedicated millage levied specifically for maintenance and improvements to the Township's recreational assets, including parks and trails.
- 70% of survey respondents felt that invasive species management should be a high priority.
- Over 80% of people rated water quality for streams, watersheds and East Bay as a high priority.

Goal 7: INLAND PARK ACQUISITION AND DEVELOPMENT

Vision: Acquire land for an inland park if the opportunity appears.

Objectives for Success

- Facilitate and support parcel acquisitions and/or easements that connect trails and parks.
- Collaborate with VASA Pathway and TART Trails to create connectivity wherever possible.
- Provide opportunities for active recreation opportunities.
- Develop and improve existing recreational assets.

Support from Public Input

- 83% of survey takers felt that recreation opportunities for adults is important.
- 84% of respondents said it is important to have recreation opportunities for children.
- 54% of people said they would support the TART trail system in the Township even if it raised their taxes.
- Approximately 49% of people rated recreation/tourism as a medium to high priority for economic growth opportunities.

ACME TOWNSHIP PARKS MASTER PLAN

The Acme Township Parks System Plan seeks to accomplish the goals of Access to Grand Traverse Bay, Attractive Waterfront Parks, and Connectivity. The “backbone” of the parks plan is the non-motorized circulation system. USBR 35 and the TART Trail serve as the regional non-motorized stem that runs through the township from northeast to southwest. Local non-motorized connections link the recreational facilities to this regional network and provide trailhead points to access the parks and regional non-motorized system.

An additional mode of non-motorized transportation is provided for with the designation of a water trail running along the shore of the Grand Traverse Bay. Designated shore access zones, located in township parks or road-end boat launches, give paddlers a range of access points to the blueway. Two accessible canoe/kayak launches, would allow access to the water for paddlers of all abilities. A recently added boat launch on Acme Township property within Sayler park provides a public boat launch for other watercrafts. This system of launches also contributes to the goal of Access to Grand Traverse Bay.

This multi-modal, non-motorized network provides Connectivity and gives Acme Township residents a way to access recreational facilities without the use of their car. Additionally, it provides opportunities for cycling tourists to stop and enjoy what Acme Township has to offer.

In order to accomplish the goals of Access to Grand Traverse Bay and Attractive Waterfront Parks, additions and improvements to the parks will continue to be made. The newly developed Bayside Park provides recreational opportunities for families, young adults, retirees, and tourists alike. Though unstructured open space along the water is beautiful in its own right, the addition of recreational and comfort amenities can accommodate a greater range of uses and attract more visitors to the parks, maximizing the investment of the community.



ACTION PLAN JUSTIFICATION

The Acme Township Parks and Trails Advisory Committee, with input from the public survey and public comment have established these goals and objectives with an achievable action plan. In the next five years, there are concrete steps that Acme Township can take to work toward the goals of Access to Grand Traverse Bay, Attractive Waterfront Parks, Connectivity, Cultural Arts, Branding, Maintenance and Acquisitions.

The highest priority is to keep implementing access to Grand Traverse Bay for people of all abilities. The Dock Road Boat Ramp will require the design and installation of steel matting sections to increase the usability of the Dock Road launch without a full boat launch reconstruction. These efforts will enhance access to Grand Traverse Bay.

Implementing new signage throughout the Acme Township park system is very important to the overall branding of the Township. Branding provides a clear and concise identity that creates trust and credibility amongst the park users.

Another priority is the completion of local non-motorized connections. This item will require continual coordination with TART Trails, VASA Pathway, the Grand Traverse Regional Land Conservancy, land owners and other agencies along the US-31 corridor route. These items contribute to Goal 3, Connectivity.

Connectivity between Acme Township's parks would increase with the construction of a bridge over Acme Creek. Planning and construction for this item would occur in 2020.

Acme Township has recognized the importance of creating new cultural opportunities for the residents. New initiatives such as Arts in the Park would bring people into the park system and provide people a place to gather and socialize while taking part in a cultural event.

An ongoing effort of the Township will be supporting the efforts of the Grand Traverse Regional Land Conservancy and Grand Traverse County as they make improvements to Maple Bay Farm.

An additional ongoing attempt that will require yearly attention from the township is the effort to eradicate invasive species, especially the Autumn Olive. Eradicating invasive species will help native species thrive and keep the parks in prime condition.

Acme Township will acquire new properties as they become available if the opportunities align with the goals and objectives the Township has put in place. Acquiring trail easements are planned upon availability if the option arises and the connectivity is part of an integral part of the overall scope of Township priorities and fully supported by the residents.

It should be noted that with additional park amenities come additional maintenance costs. These costs will need to be factored into the future general fund. Acme Township will create and implement an annual maintenance plan that will create policies and procedures to complete preventative maintenance on a regular basis. Developing a millage campaign that will directly support maintenance and improvements to the Township's recreational assets, including parks and trails was heavily supported by the Township residents as documented in Goal 6.

	ACTION PLAN ITEM - IMPLEMENTATION	GOAL	YEAR
1	Bayside Park <ul style="list-style-type: none"> Clearing and maintenance of brush and understory Installation of a playground area Implementation of Master Park Development Plan for south Bayside Park 	1 & 2	2019
2	Signage <ul style="list-style-type: none"> Design and implement new signage throughout the park system Create a clear identity and brand to identify Acme Township Parks 	5	2019
3	Access to Grand Traverse Bay <ul style="list-style-type: none"> Construct ADA Kayak/Canoe Launch with parking based on the design funded through the Coastal Zone Management Program 	1, 2 & 3	2020
4	ADA Access over Acme Creek <ul style="list-style-type: none"> Coordinate with the Grand Traverse Band an ADA access bridge and boardwalk over Acme Creek to provide pedestrian access between Bayside Park to Deepwater Point Natural Area 	3	2020
5	Dock Road Boat Ramp <ul style="list-style-type: none"> Increase the usability of the Dock Road Boat Launch by installing steel matting sections to be removed and reinstalled annually 	1	2021
6	Local Non-Motorized Connections <ul style="list-style-type: none"> Coordinate with TART and GTRLC on a wayfinding system for the trail network Begin construction or designation of intra-township paths 	3	2019-2023
7	Cultural Arts <ul style="list-style-type: none"> Create new initiatives to support cultural awareness. Create and implement an Art in the Park ordinance. 	4	2019-2023
8	Maple Bay Farm <ul style="list-style-type: none"> Support efforts by the Grand Traverse Regional Land Conservancy to develop the assets within the Maple Bay Farm and County 	3	2019-2023
9	Invasive Species Eradication <ul style="list-style-type: none"> Work with appropriate partners to begin a Township-wide effort to eradicate invasive species 	2	2019-2023
KEY	ACTION PLAN ITEM - ACQUISITION	GOAL	YEAR
1	Local Non-Motorized Connections <ul style="list-style-type: none"> Acquire necessary trail easements as they are needed or become available. 	3	2019-2023
2	Bayside Park Expansion <ul style="list-style-type: none"> Acquire properties southwest of the US-31 and M-72 Intersection 	2	2019-2023
3	Inland Park <ul style="list-style-type: none"> Acquire property for a potential inland park 	3	2019-2023
4	Property Acquisition for Water Access <ul style="list-style-type: none"> Continue acquisition of available properties for community access to the Grand Traverse Bay 	1	2019-2023

References

<http://www.adventurecycling.org/routes-and-maps/us-bicycle-route-system/usbrs-101/>

http://www.co.grand-traverse.mi.us/departments/parks_rec/parks

www.acmetownship.org

www.wikipedia.org

www.miplace.org

www.nrpa.org

www.mparks.org

US Census

American FactFinder - American Community Survey - www.factfinder.census.gov

Appendix

Post Completion Self Certification Forms - MDNR

Public Input Survey

Public Input Survey Results

Ad for Public Review

Ad for Public Hearing

Meeting Minutes

Resolution for Plan Adoption

Letters of Transmittal



Michigan Department of Natural Resources - Grants Management

PUBLIC OUTDOOR RECREATION GRANT POST-COMPLETION SELF-CERTIFICATION REPORT

*This information required under authority of Part 19, PA 451 of 1994, as amended;
the Land and Water Conservation Fund Act of 1965, 78 Stat. 897 (1964); and Part 715, of PA 451 of 1994, as amended.*

GRANT TYPE: ☒ MICHIGAN NATURAL RESOURCES TRUST FUND ☐ CLEAN MICHIGAN INITIATIVE
(Please select one) ☐ LAND AND WATER CONSERVATION FUND ☐ RECREATION PASSPORT ☐ BOND FUND

GRANTEE: Acme TownshipPROJECT TF00-162PROJECT TYPE: AquisitionPROJECT TITLE: Yuba Creek Natural Area AquisitionPROJECT SCOPE: Aquire in fee simple of 403 ac of critical wetlands and upland habitat**TO BE COMPLETED BY LOCAL GOVERNMENT AGENCY (GRANTEE)**

Name of Agency (Grantee) Acme Township	Contact Person Shawn Winter	Title Planning & Zoning Admin
Address 6042 Acme Road	Telephone 231-938-1350	
City, State, ZIP Williamsburg, MI 49690	Email swinter@acmetownship.org	

SITE DEVELOPMENT

Any change(s) in the facility type, site layout, or recreation activities provided?
If yes, please describe change(s).

☐ Yes ☒ No

Please refer to the attached boundary map. Has any portion of the project site been converted to a use other than outdoor recreation? If yes, please describe what portion and describe use. (This would include cell towers and any non-recreation buildings.)

☐ Yes ☒ No

Are any of the facilities obsolete? If yes, please explain.

☐ Yes ☒ No

Is the site and all facilities accessible to persons with disabilities? If no, please explain.

☒ Yes ☐ No

List all additional existing development/facilities at the referenced project site. If the site is undeveloped, please describe the present use and provide a schedule for future development, including a list of proposed facilities.

Walking trails have been expanded.Existing building on site currently used for park department equipment storage.Benches have been provided for the enjoyment of viewsheds.

POST-COMPLETION SELF-CERTIFICATION REPORT (CONT'D)

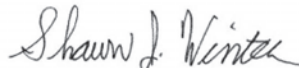
SITE QUALITY	
Is there a park entry sign which identifies the property or facility as a public recreation area? If yes, please provide a photograph of the sign. If no, please explain.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<hr/>	
Are the facilities and the site being properly maintained? If no, please explain.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Parking lot is mowed for access.	
<hr/>	
Are there any features near the site which would detract from the use and enjoyment of the site or would pose a health or safety problem? If yes, please explain.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<hr/>	
Is vandalism a problem at this site? If yes, explain the measures being taken to prevent or minimize vandalism.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<hr/>	
Is maintenance scheduled on a regular basis? If yes, give schedule. If no, please explain.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Regular mowing of grass at parking lot and along walking trails.	
Invasive species management annually in cooperation with Grand Traverse Regional Land Cons	
GENERAL	
Is a Program Recognition plaque permanently displayed at the site? If yes, please provide a photograph. (Not required for Bond Fund Grants)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Is any segment of the general public restricted from using the site or facilities? (i.e. resident only, league only, boaters only, etc.) If yes, please explain.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Bicycles and motorized vehicles are prohibited by management plan.	
<hr/>	
Is a fee charged for use of the site or facilities? If yes, please provide fee structure.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<hr/>	
What are the hours and seasons for availability of the site?	
Continuously open to the public.	

POST-COMPLETION SELF-CERTIFICATION REPORT (CONT'D)**COMMENTS (ATTACH SEPARATE SHEET IF MORE SPACE IS NEEDED)****CERTIFICATION**

I do hereby certify that I am duly elected, appointed and/or authorized by the Grantee named above and that the information and answers provided herein are true and accurate to the best of my personal knowledge, information and belief.

Shawn Winter

Please print



Grantee Authorized Signature

11.07.18

Date

Carrie Klingelsmith

Please print



Witness Signature

11-07-18

Date

Send completed report to: POST COMPLETION GRANT INSPECTION REPORTS
GRANTS MANAGEMENT
MICHIGAN DEPARTMENT OF NATURAL RESOURCES
PO BOX 30425
LANSING MI 48909-7925



Michigan Department of Natural Resources - Grants Management

PUBLIC OUTDOOR RECREATION GRANT POST-COMPLETION SELF-CERTIFICATION REPORT

*This information required under authority of Part 19, PA 451 of 1994, as amended;
the Land and Water Conservation Fund Act of 1965, 78 Stat. 897 (1964); and Part 715, of PA 451 of 1994, as amended.*

GRANT TYPE: ☒ MICHIGAN NATURAL RESOURCES TRUST FUND ☐ CLEAN MICHIGAN INITIATIVE
(Please select one) ☐ LAND AND WATER CONSERVATION FUND ☐ RECREATION PASSPORT ☐ BOND FUND

GRANTEE: Acme TownshipPROJECT TF08-095PROJECT TYPE: AcquisitionPROJECT TITLE: Acme Waterfront Park Acquisition - Phase 1PROJECT SCOPE: Phase 1 of the acquisition of 11.5 acres and 2,000 feet of lake front**TO BE COMPLETED BY LOCAL GOVERNMENT AGENCY (GRANTEE)**

Name of Agency (Grantee) Acme Township	Contact Person Shawn Winter	Title Planning & Zoning Admin
Address 6042 Acme Road	Telephone 231-938-1350	
City, State, ZIP Williamsburg, MI 49690	Email swinter@acmetownship.org	

SITE DEVELOPMENT

Any change(s) in the facility type, site layout, or recreation activities provided?
If yes, please describe change(s). ☒ Yes ☐ No

Beach walls, sidewalks, benches, flower garden, irrigation, ADA accessible beach mats,
playground to be installed - all part of MDNR Trust Fund Development Grant (TF16-0061)

Please refer to the attached boundary map. Has any portion of the project site been converted to a use other than outdoor recreation? If yes, please describe what portion and describe use. (This would include cell towers and any non-recreation buildings.) ☐ Yes ☒ No

Are any of the facilities obsolete? If yes, please explain. ☒ Yes ☐ No

One former site building still existing, Township determining how to repurpose either as
restrooms, equipment storage, or non-motorized watercraft rentals.

Is the site and all facilities accessible to persons with disabilities? If no, please explain. ☒ Yes ☐ No

List all additional existing development/facilities at the referenced project site. If the site is undeveloped, please describe the present use and provide a schedule for future development, including a list of proposed facilities.

Bath house, sidewalks, non-motorized trail, existing pavilion, parking lot expansion and
improvements, benches, flower gardens, beach walls, ADA accessible beach mats, bike
racks, irrigation system, new landscaping, former hotel cottage still on site, signage
existing playground, securing funding for new universally accessible playground this
winter.

POST-COMPLETION SELF-CERTIFICATION REPORT (CONT'D)

SITE QUALITY	
Is there a park entry sign which identifies the property or facility as a public recreation area? If yes, please provide a photograph of the sign. If no, please explain.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<u>old sign in place, plans being worked on for new entry sign</u>	
Are the facilities and the site being properly maintained? If no, please explain.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are there any features near the site which would detract from the use and enjoyment of the site or would pose a health or safety problem? If yes, please explain.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is vandalism a problem at this site? If yes, explain the measures being taken to prevent or minimize vandalism.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is maintenance scheduled on a regular basis? If yes, give schedule. If no, please explain.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<u>Mowing, irrigation, beach raking, landscape management, sweeping of sidewalks, winter snow removal from portion of parking lot.</u>	
GENERAL	
Is a Program Recognition plaque permanently displayed at the site? If yes, please provide a photograph. (Not required for Bond Fund Grants)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Is any segment of the general public restricted from using the site or facilities? (i.e. resident only, league only, boaters only, etc.) If yes, please explain.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is a fee charged for use of the site or facilities? If yes, please provide fee structure.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
What are the hours and seasons for availability of the site?	
<u>Open 30 minutes before sunrise, to 30 minutes after sunset. No gates for enforcement.</u>	

POST-COMPLETION SELF-CERTIFICATION REPORT (CONT'D)**COMMENTS (ATTACH SEPARATE SHEET IF MORE SPACE IS NEEDED)**

This acquisition property is adjacent to the existing Bayside Park and became an extension of that facility. The MDNR Trust Fund Development Grant (TF16-0061) encompassed the whole property. Although there are regular hours of operation for the park, they are not often enforced, nor is there a gate or similar apparatus to block access. The restrooms do have automatic locking mechanisms on the doors that lock at night.

CERTIFICATION

I do hereby certify that I am duly elected, appointed and/or authorized by the Grantee named above and that the information and answers provided herein are true and accurate to the best of my personal knowledge, information and belief.

Shawn Winter

Please print

Shawn J. Winter

Grantee Authorized Signature

11.07.18

Date

Carrie Klingelsmith

Please print

Carrie Klingelsmith

Witness Signature

11.07.18

Date

Send completed report to: **POST COMPLETION GRANT INSPECTION REPORTS
GRANTS MANAGEMENT
MICHIGAN DEPARTMENT OF NATURAL RESOURCES
PO BOX 30425
LANSING MI 48909-7925**



Michigan Department of Natural Resources - Grants Management

PUBLIC OUTDOOR RECREATION GRANT POST-COMPLETION SELF-CERTIFICATION REPORT

*This information required under authority of Part 19, PA 451 of 1994, as amended;
the Land and Water Conservation Fund Act of 1965, 78 Stat. 897 (1964); and Part 715, of PA 451 of 1994, as amended.*

GRANT TYPE: ☒ MICHIGAN NATURAL RESOURCES TRUST FUND ☐ CLEAN MICHIGAN INITIATIVE
(Please select one) ☐ LAND AND WATER CONSERVATION FUND ☐ RECREATION PASSPORT ☐ BOND FUND

GRANTEE: Acme TownshipPROJECT TF09-171PROJECT TYPE: AcquisitionPROJECT TITLE: Acme Waterfront Park Acquisition - Phase 2PROJECT SCOPE: Phase 2 of the acquisition of 2.11 ac addition to the waterfront park**TO BE COMPLETED BY LOCAL GOVERNMENT AGENCY (GRANTEE)**

Name of Agency (Grantee) Acme Township	Contact Person Shawn Winter	Title Planning & Zoning Admin
Address 6042 Acme Road	Telephone 231-938-1350	
City, State, ZIP Williamsburg, MI 49690	Email swinter@acmetownship.org	

SITE DEVELOPMENT

Any change(s) in the facility type, site layout, or recreation activities provided?
If yes, please describe change(s). ☐ Yes ☒ No

Please refer to the attached boundary map. Has any portion of the project site been converted to a use other than outdoor recreation? If yes, please describe what portion and describe use. (This would include cell towers and any non-recreation buildings.) ☐ Yes ☒ No

Are any of the facilities obsolete? If yes, please explain. ☐ Yes ☒ No

Is the site and all facilities accessible to persons with disabilities? If no, please explain. ☐ Yes ☒ No

No improvements to the property other demolishing buildings present at time of acquisition.

List all additional existing development/facilities at the referenced project site. If the site is undeveloped, please describe the present use and provide a schedule for future development, including a list of proposed facilities.

Gravel parking lot near Bunker Hill Rd

DPW sanitary sewer lift station (present at time of acquisition)

Gate with Knox box for fire department access for water rescues

POST-COMPLETION SELF-CERTIFICATION REPORT (CONT'D)

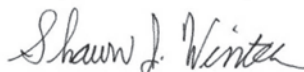
SITE QUALITY	
Is there a park entry sign which identifies the property or facility as a public recreation area? If yes, please provide a photograph of the sign. If no, please explain.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the facilities and the site being properly maintained? If no, please explain.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are there any features near the site which would detract from the use and enjoyment of the site or would pose a health or safety problem? If yes, please explain.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is vandalism a problem at this site? If yes, explain the measures being taken to prevent or minimize vandalism.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is maintenance scheduled on a regular basis? If yes, give schedule. If no, please explain. Regular mowing of the property.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
GENERAL	
Is a Program Recognition plaque permanently displayed at the site? If yes, please provide a photograph. (Not required for Bond Fund Grants)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Is any segment of the general public restricted from using the site or facilities? (i.e. resident only, league only, boaters only, etc.) If yes, please explain.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is a fee charged for use of the site or facilities? If yes, please provide fee structure.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
What are the hours and seasons for availability of the site? Open 30 minutes before sunrise, to 30 minutes after sunset. No gate to restrict access.	

POST-COMPLETION SELF-CERTIFICATION REPORT (CONT'D)**COMMENTS (ATTACH SEPARATE SHEET IF MORE SPACE IS NEEDED)****CERTIFICATION**

I do hereby certify that I am duly elected, appointed and/or authorized by the Grantee named above and that the information and answers provided herein are true and accurate to the best of my personal knowledge, information and belief.

Shawn Winter

Please print



Grantee Authorized Signature

11.07.18

Date

Carrie Klingelsmith

Please print



Witness Signature

11.07.18

Date

Send completed report to: POST COMPLETION GRANT INSPECTION REPORTS
GRANTS MANAGEMENT
MICHIGAN DEPARTMENT OF NATURAL RESOURCES
PO BOX 30425
LANSING MI 48909-7925



Michigan Department of Natural Resources - Grants Management

**PUBLIC OUTDOOR RECREATION GRANT
POST-COMPLETION SELF-CERTIFICATION REPORT**

*This information required under authority of Part 19, PA 451 of 1994, as amended;
the Land and Water Conservation Fund Act of 1965, 78 Stat. 897 (1964); and Part 715, of PA 451 of 1994, as amended.*

GRANT TYPE: ☒ MICHIGAN NATURAL RESOURCES TRUST FUND ☐ CLEAN MICHIGAN INITIATIVE
(Please select one) ☐ LAND AND WATER CONSERVATION FUND ☐ RECREATION PASSPORT ☐ BOND FUND

GRANTEE: Acme TownshipPROJECT TF96-110PROJECT TYPE: AquisitionPROJECT TITLE: Deepwater Point Natural AreaPROJECT SCOPE: Aquire 14 acres of undeveloped, forested shoreline (1075.46 lf)**TO BE COMPLETED BY LOCAL GOVERNMENT AGENCY (GRANTEE)**

Name of Agency (Grantee) Acme Township	Contact Person Shawn Winter	Title Planning & Zoning Admin
Address 6042 Acme Road	Telephone 231-938-1350	
City, State, ZIP Williamsburg, MI 49690	Email swinter@acmetownship.org	

SITE DEVELOPMENT

Any change(s) in the facility type, site layout, or recreation activities provided?

If yes, please describe change(s).

☐ Yes ☒ No

Please refer to the attached boundary map. Has any portion of the project site been converted to a use other than outdoor recreation? If yes, please describe what portion and describe use. (This would include cell towers and any non-recreation buildings.)

☐ Yes ☒ No

Are any of the facilities obsolete? If yes, please explain.

☐ Yes ☒ No

Is the site and all facilities accessible to persons with disabilities? If no, please explain.

☐ Yes ☒ NoOnly amenities that exist are dirt walking trails that at areas are very narrow.

List all additional existing development/facilities at the referenced project site. If the site is undeveloped, please describe the present use and provide a schedule for future development, including a list of proposed facilities.

Small dirt parking lot along Shore Rd.Dirt walking trails through the property.

POST-COMPLETION SELF-CERTIFICATION REPORT (CONT'D)

SITE QUALITY	
Is there a park entry sign which identifies the property or facility as a public recreation area? If yes, please provide a photograph of the sign. If no, please explain.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<hr/>	
Are the facilities and the site being properly maintained? If no, please explain.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<hr/>	
Are there any features near the site which would detract from the use and enjoyment of the site or would pose a health or safety problem? If yes, please explain.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<hr/>	
Is vandalism a problem at this site? If yes, explain the measures being taken to prevent or minimize vandalism.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<u>Only one incident has occurred, and the offending party was caught and removed the paint.</u>	
<hr/>	
Is maintenance scheduled on a regular basis? If yes, give schedule. If no, please explain.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<hr/>	
GENERAL	
Is a Program Recognition plaque permanently displayed at the site? If yes, please provide a photograph. (Not required for Bond Fund Grants)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Is any segment of the general public restricted from using the site or facilities? (i.e. resident only, league only, boaters only, etc.) If yes, please explain.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<hr/>	
Is a fee charged for use of the site or facilities? If yes, please provide fee structure.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<hr/>	
What are the hours and seasons for availability of the site?	
<u>Continuously opened.</u>	

POST-COMPLETION SELF-CERTIFICATION REPORT (CONT'D)**COMMENTS (ATTACH SEPARATE SHEET IF MORE SPACE IS NEEDED)****CERTIFICATION**

I do hereby certify that I am duly elected, appointed and/or authorized by the Grantee named above and that the information and answers provided herein are true and accurate to the best of my personal knowledge, information and belief.

Shawn Winter

Please print

Shawn J. Winter

Grantee Authorized Signature

11.07.18

Date

Carrie Klingelsmith

Please print

Carrie Klingelsmith

Witness Signature

11.07.18

Date

Send completed report to: POST COMPLETION GRANT INSPECTION REPORTS
 GRANTS MANAGEMENT
 MICHIGAN DEPARTMENT OF NATURAL RESOURCES
 PO BOX 30425
 LANSING MI 48909-7925



Michigan Department of Natural Resources - Grants Management

PUBLIC OUTDOOR RECREATION GRANT POST-COMPLETION SELF-CERTIFICATION REPORT

*This information required under authority of Part 19, PA 451 of 1994, as amended;
the Land and Water Conservation Fund Act of 1965, 78 Stat. 897 (1964); and Part 715, of PA 451 of 1994, as amended.*

GRANT TYPE: ☒ MICHIGAN NATURAL RESOURCES TRUST FUND ☐ CLEAN MICHIGAN INITIATIVE
(Please select one) ☐ LAND AND WATER CONSERVATION FUND ☐ RECREATION PASSPORT ☐ BOND FUND

GRANTEE: Acme Township

PROJECT TF11-082

PROJECT TYPE: Acquisition

PROJECT TITLE: Acme Waterfront Park Acquisition

Acquisition of approx. 337 feet of frontage ofn East Grand Traverse

PROJECT SCOPE: Bay

TO BE COMPLETED BY LOCAL GOVERNMENT AGENCY (GRANTEE)

Name of Agency (Grantee) Acme Township	Contact Person Shawn Winter	Title Planning & Zoning Admin
Address 6042 Acme Road	Telephone 231-938-1350	
City, State, ZIP Williamsburg, MI 49690	Email swinter@acmetownship.org	

SITE DEVELOPMENT

Any change(s) in the facility type, site layout, or recreation activities provided?
If yes, please describe change(s).

☐ Yes ☒ No

Please refer to the attached boundary map. Has any portion of the project site been converted to a use other than outdoor recreation? If yes, please describe what portion and describe use. (This would include cell towers and any non-recreation buildings.)

☐ Yes ☒ No

Are any of the facilities obsolete? If yes, please explain.

☐ Yes ☒ No

Is the site and all facilities accessible to persons with disabilities? If no, please explain.

☒ Yes ☐ No

List all additional existing development/facilities at the referenced project site. If the site is undeveloped, please describe the present use and provide a schedule for future development, including a list of proposed facilities.

**Undeveloped: site has access to park on a gravel surface. Former road end provides
access to Grand Traverse Bay by launching small watercraft on a former, simple launch**

POST-COMPLETION SELF-CERTIFICATION REPORT (CONT'D)

SITE QUALITY	
Is there a park entry sign which identifies the property or facility as a public recreation area? If yes, please provide a photograph of the sign. If no, please explain.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<hr/>	
Are the facilities and the site being properly maintained? If no, please explain.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Grass is mowed, gravel is graded periodically, trees are trimmed as needed.	
<hr/>	
Are there any features near the site which would detract from the use and enjoyment of the site or would pose a health or safety problem? If yes, please explain.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<hr/>	
Is vandalism a problem at this site? If yes, explain the measures being taken to prevent or minimize vandalism.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<hr/>	
Is maintenance scheduled on a regular basis? If yes, give schedule. If no, please explain.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Just routine maintenance of vegetation	
<hr/>	
GENERAL	
Is a Program Recognition plaque permanently displayed at the site? If yes, please provide a photograph. (Not required for Bond Fund Grants)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Is any segment of the general public restricted from using the site or facilities? (i.e. resident only, league only, boaters only, etc.) If yes, please explain.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<hr/>	
Is a fee charged for use of the site or facilities? If yes, please provide fee structure.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<hr/>	
What are the hours and seasons for availability of the site?	
Half hour before sunrise to a half hour after sunset. Not gated or strictly enforced.	

POST-COMPLETION SELF-CERTIFICATION REPORT (CONT'D)**COMMENTS (ATTACH SEPARATE SHEET IF MORE SPACE IS NEEDED)****CERTIFICATION**

I do hereby certify that I am duly elected, appointed and/or authorized by the Grantee named above and that the information and answers provided herein are true and accurate to the best of my personal knowledge, information and belief.

Shawn J Winter

Please print

Shawn J. Winter

Grantee Authorized Signature

11.13.18

Date

Carrie Klingelsmith

Please print

Carrie Klingelsmith

Witness Signature

11-13-18

Date

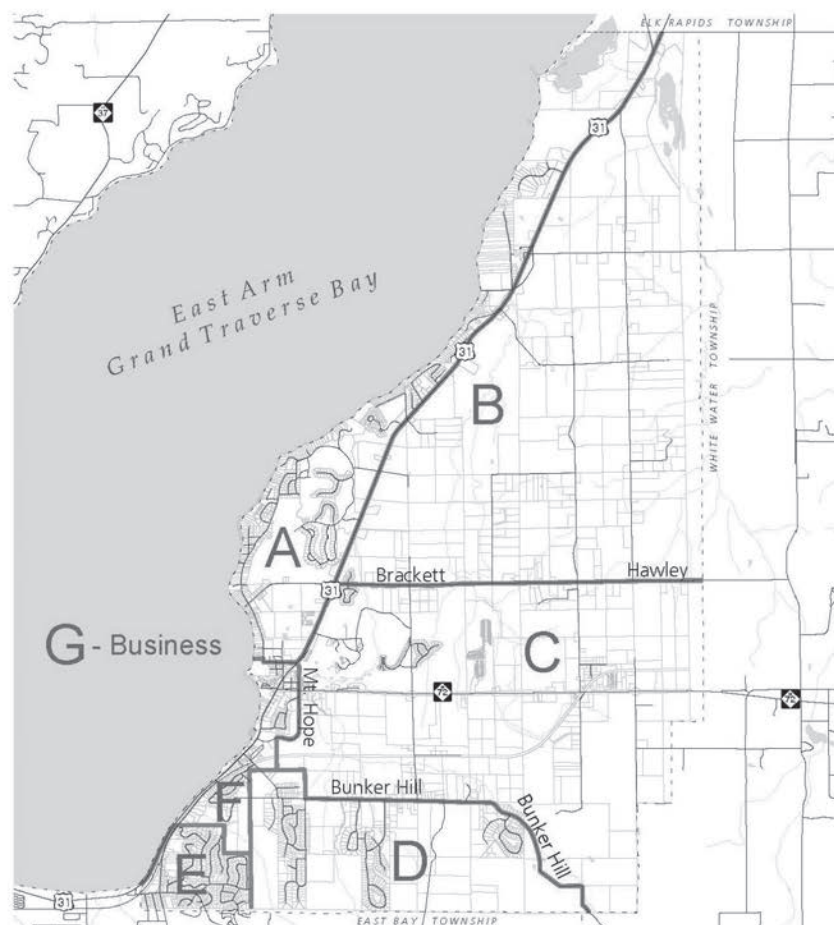
Send completed report to: POST COMPLETION GRANT INSPECTION REPORTS
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MICHIGAN DEPARTMENT OF NATURAL RESOURCES
PO BOX 30425
LANSING MI 48909-7925

Acme Township 2019 Community Master Plan and Parks Plan Update Survey Questions

1. How long have you lived in Acme Township?

- ☐ Less than 2 years
- ☐ 2-5 years
- ☐ 6-10 years
- ☐ 11-20 years
- ☐ More than 20 years

Sub Area Map for Question #2



Acme Township
Survey Sub-Areas

Data Source: Michigan Geographic Data Library, Grand Traverse County Equalization

- Parcel Boundary
- Township Boundary
- Survey Boundary
- Road

2. Please indicate in which area of the Township you are located by referencing the enclosed survey sub-area map.

- | | |
|---|--|
| <input type="radio"/> A - Shoreline north of M-72 and west of US-31 | <input type="radio"/> E - Holiday North & Pines Subdivision, Sherwood Farms and Stockfish subdivisions |
| <input type="radio"/> B - East of US-31 and north of Brackett Road | <input type="radio"/> F - Bay Villa Condos, Crestridge Hills, Scenic Hill and Village of Acme |
| <input type="radio"/> C - East of US-31, south of Brackett Rd and north of Bunker Hill | <input type="radio"/> G - Business Community |
| <input type="radio"/> D - Cranberry Woods, Springbrook Hills, and Wellington Farms subdivisions | |

3. How would you classify yourself?

- ☐ Non-resident property owner (own property only but do not live or conduct a business in Acme Township)
- ☐ Seasonal resident - primary residence is located in another community
- ☐ Year-round resident - homeowner
- ☐ Year-round resident - renter

4. Are you a business owner in Acme Township?

- ☐ Yes
- ☐ No

5. Which of the following best describes your occupation?

- | | |
|--|--|
| <input type="radio"/> Agriculture | <input type="radio"/> Manufacturing |
| <input type="radio"/> Arts, entertainment, and recreation | <input type="radio"/> Professional, scientific, and management |
| <input type="radio"/> Construction | <input type="radio"/> Retail trade |
| <input type="radio"/> Currently unemployed | <input type="radio"/> Retired |
| <input type="radio"/> Educational, health, and social services | <input type="radio"/> Transportation and warehousing |
| <input type="radio"/> Finance, insurance and real estate | <input type="radio"/> Wholesale trade |
| <input type="radio"/> Government | <input type="radio"/> Other |
| <input type="radio"/> Information/technology | |

6. Which category below includes your age?

- | | |
|-----------------------------------|---|
| <input type="radio"/> 20-29 years | <input type="radio"/> 60-69 years |
| <input type="radio"/> 30-39 years | <input type="radio"/> 70-79 years |
| <input type="radio"/> 40-49 years | <input type="radio"/> 80-89 years |
| <input type="radio"/> 50-59 years | <input type="radio"/> Over 89 years old |

7. Acme Township will be faced with many issues in the next decade for which long-range planning is critical. The following is a series of items addressing various issues relevant to the Township. First, please indicate the importance of each item when considering the future of Acme Township.

How important is this issue to you?

	Very Important	Somewhat Important	Unimportant	Somewhat Unimportant	Very Unimportant
Cost of living/affordability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Property tax rate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Responsive government	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Quality of schools	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Quality of roads	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Recreation opportunities for adults	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Recreation opportunities for children	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Access to healthcare services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Availability of emergency services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Job opportunities within walking & biking distance of Acme Township	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Rural atmosphere	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Proximity to Traverse City	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sense of community	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Access to water and East Bay	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Proximity to family & friends	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

8. How would you rate Acme Township with regard to this issue?

	Excellent	Above Average	Average	Below Average	Poor	Don't know
Cost of living/affordability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Property tax rate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Responsive government	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Quality of schools	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Quality of roads	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Recreation opportunities for adults	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Recreation opportunities for children	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Access to healthcare services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Availability of emergency services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Job opportunities within walking & biking distance of Acme Township	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Rural atmosphere	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Proximity to Traverse City	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sense of community	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Access to water and East Bay	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Proximity to family & friends	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

9. How satisfied are you overall with the quality of life in Acme Township?

- ☐ Very satisfied
 ☐ Dissatisfied
- ☐ Satisfied
 ☐ Very dissatisfied
- ☐ Neither satisfied nor dissatisfied

10. How would you rate your satisfaction with the following services provided within Acme Township?

	Very Dissatisfied	Somewhat Dissatisfied	Somewhat Satisfied	Very Satisfied	No opinion, Don't know
Emergency medical services & fire protection	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Park maintenance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Public transit (BATA) services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Road conditions and maintenance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sheriff services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Township communication	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Township website	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Zoning and blight enforcement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

11. With regard to funding, do you believe the following initiatives should be pursued in Acme Township over the next 10 years?

	Yes, even if it raises my taxes	Yes, only if it doesn't raise my taxes	No	Uncertain
Community center	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Community e-newsletter	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
District branch library	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
New fire station	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
New Township hall	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Expansion of sewer system	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Public transit (BATA stations)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Public water services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Recycling services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Road maintenance and reconstruction	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Senior services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Township wide TART Trail system	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sidewalks along US-31 and shoreline parks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Web/Televised Township meetings	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

12. Due to the Headlee Amendment, the millage rate that Acme Township is allowed to assess has decreased year over year to 0.7307. Would you support a reset in the millage rate to 1.00 in order to improve Township services? (EXAMPLE: For a property with a taxable value of \$100,000, the millage increase would raise the property taxes \$26.93 per year.)

☐ Yes

☐ No

13. Rate each of the following economic growth opportunities as a priority for development in Acme Township:

	Not a Priority	Low Priority	Medium Priority	High Priority
Agricultural operations and processing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Agricultural tourism	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Residential (single family)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Residential (multifamily, apartments)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Retail (locally owned)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Large scale retail (regional and national chains)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Restaurants and entertainment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Professional offices and technology related business	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Recreation/Tourism	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Warehousing and distribution facilities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Industrial	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Alternative energy generation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

14. Rate each of the following as a priority for protection by Acme Township:

	Not a Priority	Low Priority	Medium Priority	High Priority
Farmlands and orchards	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Residential (single family)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Opportunities for fishing & hunting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Rural character	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
East Bay shoreline	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Water quality for streams, watersheds, and East Bay	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Wildlife habitat	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Invasive Species Management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Recreation/Tourism	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

15. Rate each of the following housing options as a priority in the Township:

	Not a Priority	Low Priority	Medium Priority	High Priority
Multifamily, apartments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Housing for local workforce and/or young families	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Senior/Assisted living	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
"Mother-in-law" apartments and/or accessory dwelling units as long-term rentals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

16. How often do you or a member of your household visit the following public outdoor parks, trails and/or indoor recreation facilities located in Acme Township?

	At least once a week	Several times a month	Once a month	Several times a year	Do not visit
Bayside Park	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bunker Hill Boat Launch	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Deepwater Point Natural Area	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Dock Road Boat Launch	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Maple Bay County Farm Park	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
MDOT/Gilroy Roadside Park	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Petobago State Game Area	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sayler Park	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sayler Park Boat Launch	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
TART Trail	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
VASA Trail/Bartlett Park	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Yuba Creek Natural Area	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

17. Please indicate your level of agreement with each of the following statements.

	Strongly Disagree	Somewhat Disagree	Somewhat Agree	Strongly Agree	No Opinion
Parks and recreation facilities/services are important to our community and worthy of taxpayer support	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acme Township should continue additional land acquisitions to provide greater access to Grand Traverse Bay	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acme Township should support the development of trails that connect with other adjacent parks, points of interest, and the existing TART Trail network	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acme Township should have a public marina	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acme Township should actively plan for and support arts and cultural activities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acme Township should adopt a plan to exhibit public art installations and cultural events in township parks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

18. Please indicate which of the following recreation facilities and activities Acme Township should plan for and develop. Please choose your top five answers and rank your choices in order with 1 being the top choice.

	1	2	3	4	5
Ball fields	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Basketball courts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Canoe / kayak launches	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Children playground structures	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Community gardens/plots	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cultural events / public art	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Dog park	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Frisbee golf	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Non-motorized trails (i.e. TART Trails)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Non-motorized watersports rentals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Outdoor movies-in-the-park	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Outdoor performance amphitheater	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pickleball courts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Public art installations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Public boat docks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Skateboard park	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Snowshoeing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Swimming beach	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tennis courts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Volleyball (beach) courts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Indoor athletic facilities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Walking/Nature trails	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Winter skating rink	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

19. Would you support a small dedicated millage levied specifically for maintenance and improvements to the Township's recreational assets, including parks and trails?

☐ Yes

☐ No

20. Please share any further comments here.

Public Comment Period

After the draft plan was completed, a public notice was published in the Traverse City Record Eagle on October 14, 2013. From December 1 to December 30, 2018, residents of Acme Township had the opportunity to review and comment on the draft plan. The plan was available for review and comment at the Acme Township Hall and online at www.acmetownship.org. No public comments were received during the comment period.

Public Comment Period Notice

Public Hearing

A notice was published in the Traverse City Record Eagle on November 13th notifying the public of the date of the public hearing. The public hearing was also advertised on various radio stations. The public hearing was conducted at the regular meeting of the Acme Township Board on January 8, 2019 at 7:00 pm at the Acme Township Hall. Public comment was supportive of the plan, and the plan was approved unanimously.

Affidavit of public notice here.

Parks and Trails Advisory Committee Minutes

Public Hearing Minutes Township Board meeting

Checklist 2 pages



To: Acme Township Board of Trustees

From: Elizabeth Calcutt, Networks Northwest, ecalcutt@networksnorthwest.org
Chris Kushman, TART Trails, ckushman@traversetrails.org

Date: November 28, 2018

Subject: Project Update for the Traverse City ↔ Charlevoix Trail, Acme through Elk Rapids Segment

Preliminary design of the Traverse City ↔ Charlevoix Trail continues to move forward for the Acme through Elk Rapids segment. Input collected at the Stakeholder Advisory Group meeting on November 1, 2018 was shared with the consultants, who are compiling the findings of the engineering assessment and input received throughout the planning process. The intent is to provide decision makers with information to identify a preferred alignment.

Landowner engagement is a priority over the coming month, and TART Trails is working on communications with landowners along the proposed routes. A second public open house will be held in January or February.

Updates on project activities and general information on the proposed trail continues to be posted at www.traversecitytocharlevoixtrail.org, and distributed via a project specific e-newsletter to stakeholders and all interested parties.

Reviewer Bid Ranking Form Acme Connector Trail Engineering

COMPANY	Beckett & Raeder	Gosling Czubak	Gourdie Frasier	OHM Advisors	Wade Trim
Firms experience, knowledge, familiarity and past performance non-motorized trail development					
Firms ability to communicate with broad public audience about trail design, function, and use patterns					
Firms experience on evaluating and informing trail route alternatives					
Firms trail development experience through public processes in order to provide input for trail development					
Firms understanding and approach to sustainable construction & maintenance practices					
Firms understanding of project specific issues and their responsibility in delivering services for the advertised project					
Firms experience in completing design for trails using MDNR and MDOT grant dollars					
Cost and timeline					
Overall feel of presented services and material					
Notes to be considered by evaluator:					
Total =	0	0	0	0	0

Notes:

Scoring is 1 (Low) to 5 (High) as indicated below:

- 1 - Bid contains major deficiencies or No information in bid package and could not evaluate.
- 2 - Bid contains deficiencies.
- 3 - Bid meets expectations.
- 4 - Bid exceeds expectations.
- 5 - Bid exceptionally exceeds expectations.

Reviewer Cost Ranking Form Acme Connector Trail Engineering

COMPANY	Beckett & Raeder	Gosling Czubak	Gourdie Frasier	OHM Advisors	Wade Trim
Geo-Technical Services	\$ 5,225.00	\$ 3,900.00	\$ -	\$ 2,200.00	\$ 5,800.00
Topographical Survey and Mapping Services	\$ 5,115.00	\$ 9,600.00	\$ 29,200.00	\$ 5,400.00	\$ 8,950.00
Public Input and Coordination (Includes 2 public hearings and 2 stakeholder hearings)	\$ 2,900.00	\$ 14,835.00	\$ 4,300.00	\$ 8,000.00	\$ 6,000.00
Design Development (DD) - (Includes obtaining all necessary permits)	\$ 7,700.00	\$ 20,755.00	\$ 30,090.00	\$ 16,000.00	\$ 15,700.00
Construction Document Phase Services (CD)	\$ 16,650.00	\$ 32,380.00	\$ 3,000.00	\$ 7,000.00	\$ 17,500.00
Bidding and Award Phase Services	\$ 3,030.00	\$ 3,540.00	\$ 500.00	\$ 1,200.00	\$ 3,350.00
Wetland Delineation	\$ -	\$ 1,700.00	\$ -	\$ -	\$ -
Notes to be considered by evaluator:		Wetland delineation included	Geo-technical services not included		
Total =	\$ 40,620.00	\$ 86,710.00	\$ 67,090.00	\$ 39,800.00	\$ 57,300.00
	2	5	4	1	3

Notes:

Construction Administration (CA) not included

Owner should hold a contingency (10-15%) in the budget



STATEMENT OF QUALIFICATIONS

Acme Connector Trail Engineering Services

**GOSLING CZUBAK
ENGINEERING SCIENCES, INC.**
WWW.GOSLINGCZUBAK.COM



Gosling Czubak
engineering sciences, inc.



PRINTED ON RECYCLED PAPER

COVER LETTER

December 13, 2018

Shawn Winter, Planning & Zoning Administrator
Acme Township
6042 Acme Road
Williamsburg, MI 49609

Re: Request for Proposal – Acme Connector Trail Engineering Services

Dear Mr. Winter,

The completion of a connector trail from Bunker Hill Road to the Grand Traverse Town Center will be a significant improvement to the non-motorized connectivity of Acme Township. This connector will benefit residents and visitors, as well as the Township itself, as the trail will spur economic activity and development interest. As we've worked closely with Acme Township to complete conceptual design and analysis for this trail section, we have a unique interest in this project. We promise to work collaboratively with Acme Township and TART to plan a trail that benefits us all.

We share in the excitement of this planning process, but we understand that there are barriers to its success. Specifically, fluctuating construction costs and multiple user groups, each with unique ideas and goals. The solution to both of these challenges is strong stakeholder input and a thorough design process. Our professionals have successfully unified diverse user groups through collaborative efforts, carefully guided to fit existing schedules and budgets and provide multiple options for a strong, sustainable project. From daily commuters to athletic enthusiasts, local agencies and private property owners, together we can design a community trail for us all.

Several communities and agencies across northern Michigan have trusted Gosling Czubak to plan, design and implement some of the finest trail systems our area has to offer. We would be honored to again provide professional services to Acme Township, in collaboration with TART and other stakeholders of this important connector project. If you have any questions or concerns as you review this proposal, please contact me directly at 231-933-5105.

Best Regards,



Kevin Krogulecki, P.L.A.
Project Manager
Gosling Czubak Engineering Sciences, Inc.



The elevated boardwalk trail through Arcadia Dunes is barrier free, encouraging those of all ages and abilities to enjoy.

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FIRM INFORMATION AND PROJECT TEAM

Services

CIVIL ENGINEERING

SURVEYING

ENVIRONMENTAL SERVICES

CONSTRUCTION SERVICES

GEOTECHNICAL

DRILLING

LANDSCAPE ARCHITECTURE

Contact

Kevin S. Krogulecki, P.L.A.
Project Manager/Landscape
Architect
kskrogulecki@goslingczubak.com
www.goslingczubak.com

Ph: (800) 968-1062

Ph: (231) 946-9191

Fax: (231) 941-4603

Company Overview

GOSLING CZUBAK ENGINEERING SCIENCES, INC.

1280 BUSINESS PARK DRIVE

TRAVERSE CITY, MICHIGAN 49686

Gosling Czubak is a professional consulting firm that provides surveying, engineering, environmental, geotechnical, and landscape architecture services to a large variety of clients. Located in Traverse City, the firm has served public and private clients throughout Michigan for more than 60 years.

Established in 1957, Gosling Czubak is a Michigan corporation governed by a board of directors and corporate officers. We currently employ a staff of about 50 experienced professional and technical people, all of which are located in Traverse City.

PROJECT WORKLOAD

Gosling Czubak's present and anticipated workload will allow our various professionals to work on the project from receipt of a Notice to Proceed from Acme Township and work on the project, without interruption, until it is completed.

PROJECT TEAM

Gosling Czubak has a deep bench of talented staff to address all the nuances of trail planning and design. This unique talent pool allows us to deliver this preliminary design effort timely and with a high level of detail.

Detailed biographies follow.

FIRM INFORMATION AND PROJECT TEAM

Project Team

MARK HURLEY, PRINCIPAL-IN-CHARGE - P.E. #047431 // \$145/HR

As Principal-in-Charge, Mark will provide project oversight and QA/QC. With more than twenty years of experience in professional engineering, Mark will offer support where necessary and assist in quickly addressing and challenges that may arise through the design process.

KEVIN S. KROGULECKI, PROJECT MANAGER/LANDSCAPE ARCHITECT - P.L.A. #1609 // \$110/HR

Kevin will lead the project team and be the main point of contact for Acme Township. Kevin will manage the daily implementation of the trail planning process and field work. He will also attend public planning sessions to gather feedback on route choices. Kevin will establish typical trail cross sections and determine the location and quantity of each type.

KLAUS D. HEINERT, LANDSCAPE ARCHITECT - P.L.A. #1247 // \$145/HR

Klaus will also attend public meetings and participate in stakeholder communication. His vast history of trail route planning, design and implementation of trail and public space projects, and experience with MNRTF and other grant programs means you won't have to worry about process and procedures.

DARREN P. GRAHAM, PROJECT ENGINEER - P.E. #043335 // \$120/HR

Darren will provide intimate local knowledge of Acme Township, particularly along the railroad where he recently managed the water main improvement project.

MARTIN A. GRAF, PROJECT ENGINEER - P.E. #043931 // \$125/HR

Martin will contribute years of technical know-how to the preliminary planning process. His experience as a transportation engineer with Gosling Czubak (and formerly Grand Traverse County Road Commission) will provide realistic and technically-sound design concepts and construction budgets.

ROBERT M. VERSCHAEVE, STRUCTURAL PROJECT ENGINEER - P.E. #050387 // \$110/HR

Bob's role will be to develop preliminary design for portions of the project that may involve structurally supported trail elements (bridges and elevated trail sections).

DOUG L. HULA, GEOTECHNICAL ENGINEER - P.E. #051406 // \$110/HR

Doug is a geotechnical engineer with experience constructing improvements in all forms of tricky soil conditions. We will utilize Doug's experience to identify potential trouble spots that may need additional attention and that may impact construction costs.

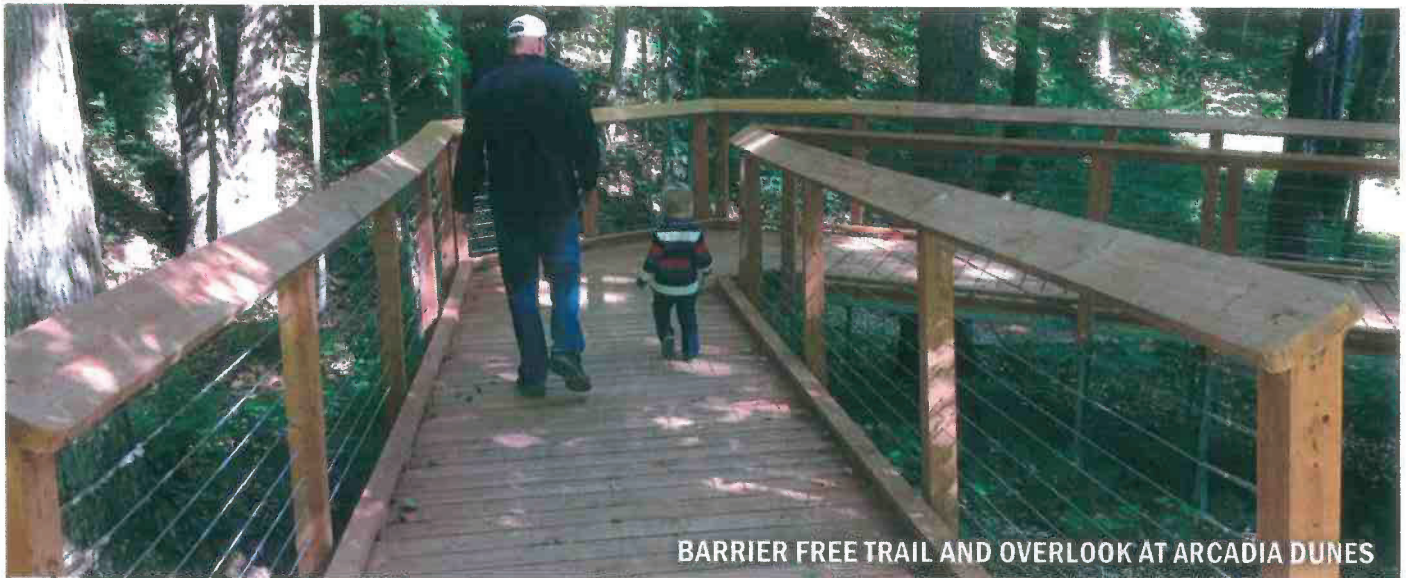
CRAIG J. PULLEN, PROJECT SURVEYOR - P.S. #4001039095 // \$155/HR

Craig will oversee and provide quality control for survey field work and base mapping. Craig has years of experience surveying on MDOT and trail projects; the most relevant being the Traverse City to Suttons Bay TART trail.

PETER R. KALLIOINEN, CHMM, ENVIRONMENTAL SCIENTIST // \$100/HR

Pete will provide field reconnaissance and determination of approximate wetland limits along the trail route. Pete has years of experience delineating wetland limits and his keen eye will make sure the preliminary plan avoids or minimizes impact to any wetland areas.

SIMILAR PROJECT EXPERIENCE



Project Summary

BARRIER FREE TRAIL AND OVERLOOK AT ARCADIA DUNES

GRAND TRAVERSE REGIONAL LAND CONSERVANCY

Gosling Czubak assisted the Grand Traverse Regional Land Conservancy (GTRLC) to advance trail development at a series of key land preserves. The focus of the planning and preliminary design development in Arcadia was to create accessible trail links from the trailhead to the top of the 300' bluff. Challenges included steep slopes, sensitive ecological areas, difficult construction access, poor soil conditions. Design elements included trail head and amenity design, extensive boardwalk and ADA crushed stone trail areas and detailed opinion probable cost development.

Gosling Czubak staff engaged with 8-10 key staff from the GTRLC and facilitated numerous review and development sessions. Field investigations, pre-staking of proposed alignments, topographic survey, and geotechnical investigation services were also integrated in each project scope. The barrier free trail and overlook was completed in May 2017. **The project was awarded the 2018 Builders Exchange of Northwest Michigan Award of Excellence in Construction.**

LAND PRESERVE	ACRES	FEATURES
Reffit Nature Preserve	106	0.7 miles ADA crushed stone trail (5'); 3,500 lf auger, pressure plate boardwalk; at-grade railroad design; bridges
Arcadia Dunes	3,600	0.4 miles ADA crushed stone trail (6'); 200 feet elevated, auger-supported boardwalk; major, 760 sq. foot dune overlook deck
Arcadia Marsh	273	1,000 lf ADA crushed stone trail (8'); 0.4 miles pressure plate boardwalk; overlook decks; river bridge ADA renovations
Pyatt Lake Nature Preserve	159	100' crib supported wetland boardwalk; 4,000 sq. foot observation deck

SIMILAR PROJECT EXPERIENCE



Project Summary

BARRIER FREE BOARDWALK THROUGH ARCADIA MARSH

GRAND TRAVERSE REGIONAL LAND CONSERVANCY

Arcadia Marsh is one of last remaining coastal marshes of Lake Michigan. Gosling Czubak assisted the Grand Traverse Regional Land Conservancy in the design of a $\frac{3}{4}$ mile boardwalk through the 273 acre marsh preserve, will allow access for all abilities to immerse themselves in the unique marsh environment.

Ultimately, construction of this boardwalk will provide those of all ages and abilities with the opportunity to rise above the marsh on an 8' overlook and down to the water's edge on 3 different fishing platforms, enjoying views of the marsh from multiple vantage points.

Gosling Czubak worked closely on all aspects of the process from conceptual design through construction administration, including permitting through MDEQ, ACOE, and MDOT, as well as local permit requirements for the project. Careful coordination among the conservancy, contractor, surveyors, structural engineer, and boardwalk manufacturer allowed construction to begin in one of northern Michigan's unique environments.

Construction is currently underway and scheduled to be complete in the Spring.

SIMILAR PROJECT EXPERIENCE



Project Summary

HERITAGE ROUTE TRAILWAY MASTER PLAN

LEELANAU SCENIC HERITAGE ROUTE COMMITTEE

Working with the Leelanau Scenic Heritage Route Committee (LSHR), NWMGOG, MDOT, and officials from the Sleeping Bear National Lakeshore, Gosling Czubak developed a master plan for more than 28 miles of non-motorized trail in the Sleeping Bear National Lakeshore Park. The trailway will provide users with one of the most scenic and culturally rich non-motorized routes in the country. The linear trailway will allow users to move in and out of several unique and cultural ecosystems as they traverse the M-22 corridor from Benzie County north through the Village of Empire, Empire Township, Glen Haven, Glen Arbor, Glen Arbor Township, Port Oneida, Cleveland Township and ending at Good Harbor Bay.

The Master Plan included public stakeholder input process as well as an extensive environmental assessment (EA) process, development of trailway alignments, typical cross-section standards, and details. The EA was completed under close evaluation of the National Park Service and included the evaluation of several trail options. Trail options were individually evaluated on set criteria. Two trailway alternative routes were then conceived and evaluated for environmental impact to the greater Lakeshore area.

Subsequent to completion of the trailway master plan, Gosling Czubak completed route and topographic surveys for MDOT on two sections of the trail.

The trail master plan was funded by a Rotary Charities Grant and a capitol campaign by TART. A FHWA federal grant funded the first phase of construction.

SIMILAR PROJECT EXPERIENCE



Project Summary

NON-MOTORIZED TRAIL PLANNING

VILLAGE OF ROSCOMMON, HIGGINS TWP.

Gosling Czubak developed a non-motorized trail master plan for the Village of Roscommon. Initially, trail planning involved linking the central business district of the Village with assisted living and income-assisted apartments on the edge of the Village. Trail planning then included exploring alternative routes and cost estimating for miles of trails. The project was spurred by the Village's Recreation Committee and re-established Roscommon Area Recreation Authority (RMRA), which included surrounding Higgins Township, with application and secured funding for the trail planning effort through the CDC.

The trail planning effort took place in 2013 and included an active stakeholder and public input process guided by Gosling Czubak's Project Manager and Landscape Architect, Klaus Heinert.

The grant funding obtained through the Central Michigan District Health Department, also funds public information and education components to help promote trail use as part of the walkable community and complete streets design initiatives in Roscommon.

In 2014-15, the Village and DDA funded preliminary engineering for Segment 1 of the plan along M-18. This shared use path was built in 2016.

SIMILAR PROJECT EXPERIENCE



Project Summary

NON-MOTORIZED TRAIL PLANNING LAKE AND ROSCOMMON TOWNSHIPS

The Townships of Lake and Roscommon neighbor each other on the southwestern portion of Houghton Lake. Klaus Heinert assisted both Townships to secure funding for trail planning around the south and west end of Houghton Lake. Work efforts integrated with trail planning in other townships around the lake, effecting the growth of a regional system. The first public and stakeholder input sessions for this process took place in the Spring of 2013 and involved over twenty key stakeholders, and representatives from the local road commission and MDOT.

Funding secured by Gosling Czubak Project Manager Klaus Heinert also allowed for educational and public awareness components regarding the benefits of trail use as an integral part of healthy living for area citizens and visitors alike. The project was funded through a cooperative grant from the CDC and the Central Michigan District Health Department (CMDHD).

In 2013, a USDA Rural Business Enterprise Grant was awarded to Lake Township to develop the middle-shared-use trail segment along Old US-27 on the east side of the lake. Preliminary engineering plans are complete and an ongoing application to MDOT's TAP program is being developed for 1.5 miles of 10' HMA path and boardwalk.

SIMILAR PROJECT EXPERIENCE



Project Summary

SHARED USE TRAIL

VILLAGE OF BEULAH

The first phase of this waterfront and downtown revitalization project increased access to the water, developed modern amenities and capitalized on universal access (UA) design and resource-based recreational opportunities on Crystal Lake.

Pedestrian and vehicular circulation along the waterfront were considered as one of the most important elements in developing a successful design. Gosling Czubak staff worked with local officials to propose the re-routing of vehicular traffic to one-way along the waterfront to free-up additional cross-section width that could be used to develop a pedestrian zone. Together with one-way traffic routing, the design includes a 12' wide two-way designated bike lane along side a pedestrian walkway. The walkway and bike lane are separated by decorative / permeable paving, permanent seating areas, removable seasonal planters, a creek footbridge and boardwalk and numerous other components. In 2015, a key pathway connection was completed with Federal and State funds, providing an ADA link to the regional Betsie Valley Trail.

Several guiding principles of the work lead by Project Manager and Landscape Architect Klaus Heinert support and provide the political will for continued efforts to make improvements. Phase II waterfront and streetscape planning, including bikeway linkages, strives to:

- » Improve overall transportation by connecting recreational facilities together
- » Implement UA as a design standard for all new facilities and improvements to existing ones
- » Integrate a "Complete Streets" design policy in future streetscape planning and park projects
- » Utilize LEED & Green Building Standards on all design solutions

SIMILAR PROJECT EXPERIENCE



NON-MOTORIZED PATHWAY ALONG THREE MILE ROAD

Project Summary

THREE MILE ROAD NON-MOTORIZED PATHWAY EAST BAY TOWNSHIP, GRAND TRAVERSE COUNTY

Gosling Czubak designed three sections of non-motorized pathway along Three Mile Road from US-31 to Hammond Road. Two of the sections have been constructed using MDOT Build Michigan III funds, Federal Safety funds, and MDOT Transportation Enhancement funds for the Non-Motorized Path. The third section is awaiting right-of-way acquisition and funding.

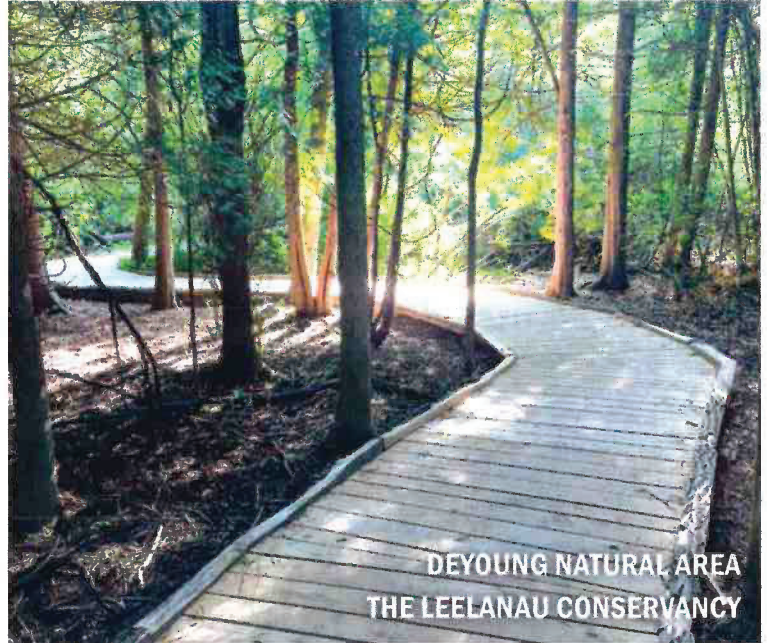
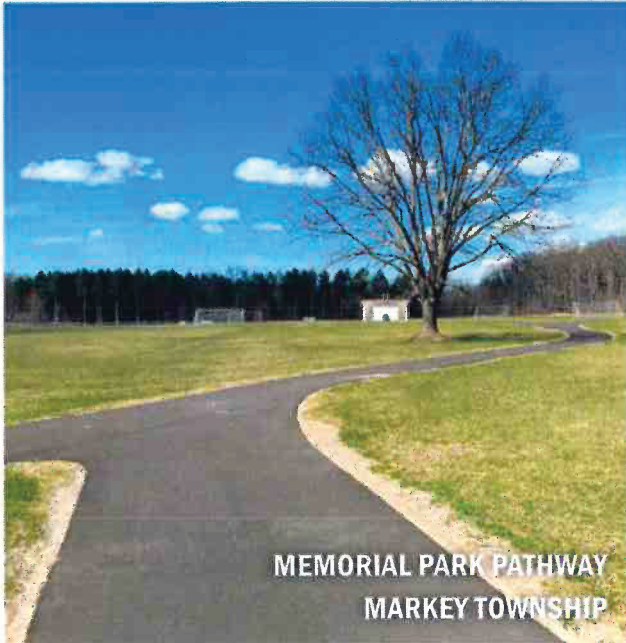
Construction of trail connected the TART trail along Parsons Road to South Airport Road, Traverse City High School, the Traverse City State Park Beach and business developments along the route. The final section of the trail will connect to a large grocery store complex and Traverse City East Middle School.

Design and construction of the trail was complicated by the need to bridge two sections of Mitchell Creek and install a safe crossing at the busy intersection of Three Mile Road, Parsons Road, a railroad track and the TART Trail. Gosling Czubak's project engineer was Martin Graf.



Ribbon cutting celebration to mark the completion of the stretch of trail.

SIMILAR PROJECT EXPERIENCE



Additional Experience

In addition to our planning and public process experience, we have experience completing design of trails using grant dollars. We have worked successfully with various grant agencies to secure funding to turn our clients' plans into projects enjoyed by all. Our construction phase services include:

- » PHASING & FUNDING STRATEGIES
- » FINAL DESIGN & BIDDING
- » CONSTRUCTION STAKING
- » GEOTECHNICAL
- » MATERIALS TESTING
- » CONSTRUCTION INSPECTION

Gosling Czubak is also **pre-qualified through MDOT** to provide the following services:

- » HMA PAVEMENT INSPECTION
- » AGGREGATE TESTING
- » CONCRETE TESTING
- » DENSITY TESTING
- » ROADWAY DESIGN
- » MUNICIPAL UTILITY DESIGN
- » ENVIRONMENTAL CONTAMINATION
- » CONSTRUCTION STAKING
- » HYDRAULICS SURVEYING
- » RIGHT-OF-WAY SURVEYING
- » ROAD DESIGN SURVEYING

Construction Cost Control and Scheduling

A REALISTIC SCOPE OF WORK

When determining construction budgets, it is essential to understand current construction, engineering, permitting and other related costs relative to the project area. Regardless of budget, the extent of any project will be determined by how efficiently the available funds are used. This begins in the design phase with a high-level cost overview of the desired scope of work. It will be the responsibility of Gosling Czubak to inform Acme Township, TART, and other stakeholders of current construction costs to give a realistic picture of what is attainable. In addition, Gosling Czubak will provide our opinion on alternate scope for the project, substitute material and construction options and potential phasing opportunities that would allow the project to move forward within budget. With that information, it will be the Township and stakeholders' responsibility to prioritize their wants and needs with regard to actual costs for the work.

Once a realistic scope of work is determined for the budget, construction documents can be prepared, and construction costs will begin to become more refined. Following these steps in an efficient manner, working closely together, and obtaining clear direction on project decisions will keep the design portion of the project on schedule. Gosling Czubak's experience in the owner and stakeholder input process will aid in the efficiency of the design process, helping to control both design budgets and schedule.

SUSTAINABLE MATERIALS MATTER

When considering the construction techniques and materials available for trail and boardwalk projects, Gosling Czubak will strive to always consider sustainable design concepts and principles, which we have been doing for years. What was initially regarding as the "right thing to do" when utilizing this approach is now showing its value with reduced long-term costs. By including natural and biological features into designs, natural processes have lower and sustainable maintenance costs compared to traditional "bricks and mortar" infrastructure. We routinely incorporate recycled materials, such as recycled asphalt pavement and crushed concrete for aggregate bases and surfaces, when possible. These materials can reduce the initial construction costs, while providing products that are as durable as those that must be mined or produced from natural resources. In addition, our experience with multiple different boardwalk and bridge products and different construction methods will allow for a proper analysis of available options and the ability to choose materials and methods that will provide the best value, achieve the design intent and create the lowest impact to natural resources.

WHAT WAS INITIALLY REGARDING
AS THE "RIGHT THING TO DO"
WHEN UTILIZING THIS APPROACH
IS NOW SHOWING ITS VALUE WITH
REDUCED LONG-TERM COSTS.

Construction Cost Control and Scheduling

LONG TERM TRAIL MAINTENANCE

As trail systems mature, maintenance is an ongoing and often costly activity. Our experience selecting materials and construction methods will help hold-down future maintenance costs. Each design feature that is intended to reduce long-term maintenance costs will be evaluated on a life-cycle cost and discussed with the project stakeholders prior to its incorporation into the design. Some examples of this practice include:

- » Utilizing weathering steel for bridges to avoid painting costs and potentially hazardous materials
- » Removing topsoil from below trail sections to prevent vegetation from growing through the trail surface
- » Determining if a minor realignment of the trail can provide better subbase materials for increased trail durability, decreased construction cost, and less disturbance of the environment from construction.
- » Placing an adequate subbase below trail surfaces to avoid frost heaving and damage to hard surfaced trails
- » Providing thickened trail cross sections in areas that motorized traffic may cross a trail
- » Extending aggregate bases beyond paved trail edges to protect them from cracking and failure
- » Utilizing densely graded aggregate surfaces instead of hard surfaces in low traffic or in areas over soils that may not be stable
- » Utilizing recycled and/or sustainably harvested decking materials that are more resistant to rot, checking, sunlight, and splintering than treated softwoods
- » Considering use of aluminum helical augers and/or surface struts as well as prefabricated metal frame sections for on-grade boardwalk areas of the trail which will allow for a less invasive and environmentally damaging earth and heavy machinery access.
- » Sourcing locally and regionally based contractors and materials, when possible, to reduce net carbon footprint for the project

EXPECT THE UNEXPECTED

While sustainability of materials and maintenance of the project are important considerations, it is also important to provide flexibility within the project design and allow for acceptable contingencies within the construction budget. Building in specific items that can be removed or altered without affecting the “core” project or funding dollars provides the ability to control costs after construction has begun and address unforeseen issues within budget. This practice also allows construction to continue on schedule without having to reverse progress and reassess larger parts of the project.

Construction schedule will also be controlled by recurring project meetings to make aware and address any issues that may arise, and typical contract mechanisms such as completion dates and liquidated damages. All of these things combined will allow Gosling Czubak to manage the project, construction costs and scheduling to ensure a smooth and efficient process.

STATE/FEDERAL FUNDING EXPERIENCE

Funding Expertise

Gosling Czubak's staff has been involved with State and Federal funding of projects for more than 35 years. A list of some of the more relevant projects to the Acme Connector Trail that have been funded by State and Federal agencies and managed by Gosling Czubak are listed below. The names and contact numbers of references for these projects are listed below.

FUNDING PROGRAM	COMMUNITY/ COUNTY	FACILITY NAME	PROJECT REFERENCE
MDOT Transportation Alternatives Program Grant	Village of Beulah	Benzie Boulevard Complete Streets Project	Mr. Dan Smith Village President (231) 882-4451
USDA Rural Business Enterprise Grant / Central MI Community Health Department	Lake Township	Roscommon & Lake Townships Multi-Use Trail Plan	Diane Randall Township Supervisor (989) 422-5052
USDA Rural Business Enterprise Grant	Village of Beulah	Waterfront Park and Complete Streets Project	Mr. Dan Smith Village President (231) 882-4451
MNRTF Recreation Development Grant			
MDEQ Coastal Management Zone Grant	Grand Traverse County	Boardman Trail Routing and South Airport Road Crossing	Grand Traverse County Road Commission / TART Trails
Federal Highways Administration	Sleeping Bear National Lakeshore	Leelanau Scenic Heritage Trail Planning and EA	Barbara Jamison NPS Rivers, Trail and Conservation Assistance Program (231) 882-7023
Rotary Charities			
Traverse Area Recreation Trail			

In addition to the State and Federal Agency funding for the recreation projects listed above, Gosling Czubak has experience with helping organizations to secure and administer funding from the following agencies:

- » USDA Rural Development Grants and Loans
- » US Dept. of Commerce Economic Development Administration (EDA)
- » Michigan Community Development Block Grants (CDBG)
- » Clean Michigan Fund (CMF)

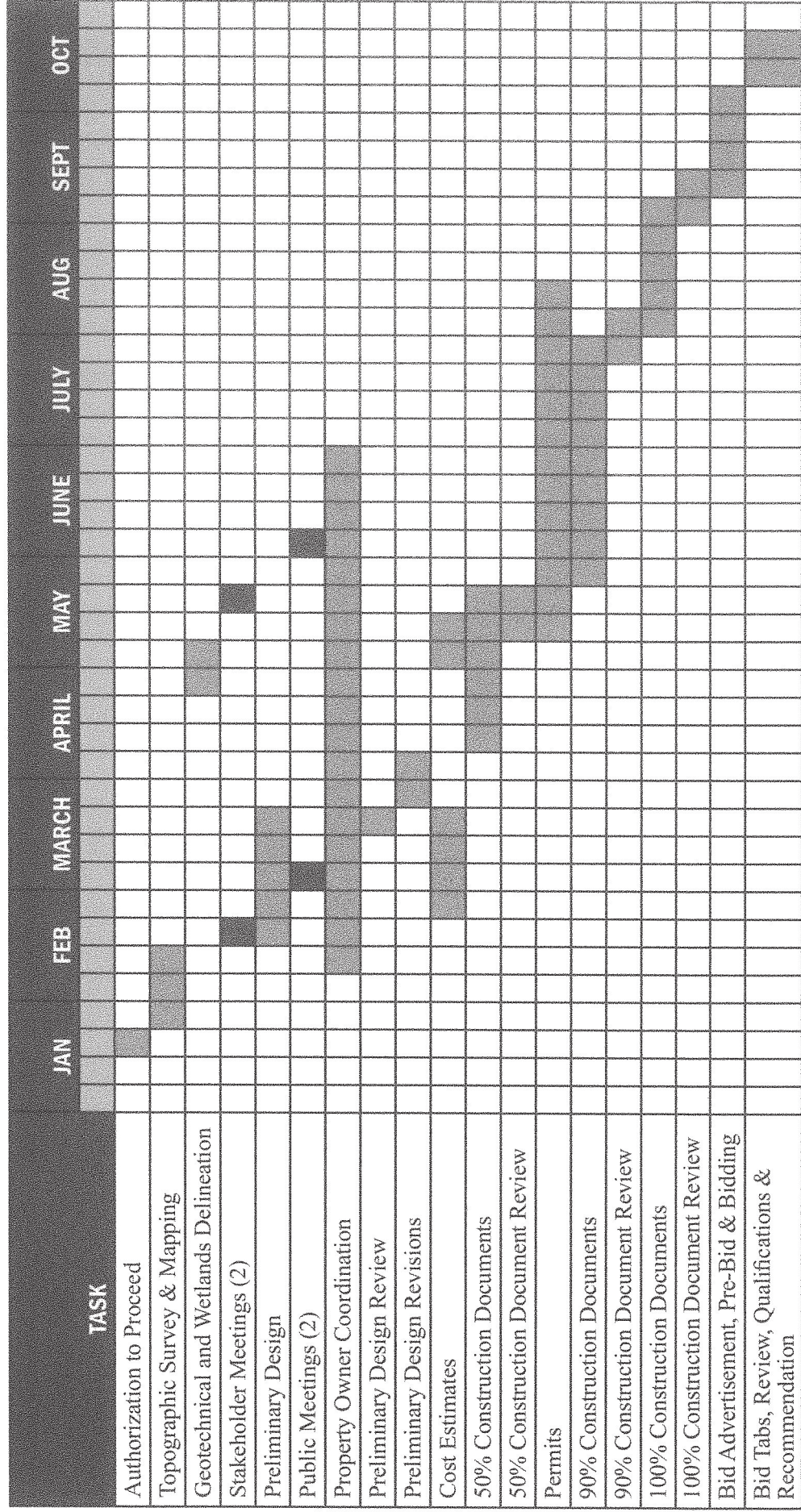
Line Item Costs

SERVICE	PROPOSED FEE
Geotechnical Services	\$ 3,900
Topographic Surveying and Mapping Services	\$ 9,600
Wetland Delineation	\$ 1,700
Public Input and Coordination (Includes 2 public hearing and 2 stakeholder meetings)	\$ 14,835
Design Development Phase Services (Includes obtaining all necessary permits)	\$ 20,755
Construction Document Phase Services	\$ 32,380
Bidding & Award Phase Services	\$ 3,540
Total Not-to-Exceed Design Services Costs	\$ 86,710

TIMELINE

Timeline

A sample proposed timeline for the project is indicated below. The timeline can be modified as required to meet the needs of Acme Township or TART.



Notes: The proposed schedule anticipates Spring 2020 construction for best value, or sooner if acceptable construction pricing can be achieved.
 The proposed timeline can be condensed by approximately 4 to 6 weeks if desired by consolidating tasks and conducting overlapping stakeholder and public input meeting dates.
 Attendance at Acme Township Parks & Trails Committee meetings are anticipated on a TBD basis, but not shown on the schedule.



Proposal

Trail Design & Construction Document Services

Acme Connector Trail, Acme Township

December 13, 2018



GEI



I. Firm Information and Project Team

Thank you for the opportunity to bid on this project. We have assembled a multi-faceted team to bring you the best people for each aspect of the work. This team will commit the resources necessary to fulfill the scope and timeframe of this project.

GFA – Prime Consultant

GFA
123 W. Front Street
Traverse City, MI
49684
231.946.5874
<http://gfa.tc>

For 70 years our employees have lived and worked in the Traverse City area, and today we are still active users of the parks and trails system in addition to our infrastructure work. GFA has a strong history of completing community infrastructure projects and is well-versed in project development and construction. We look forward to assisting Acme Township and TART Trails in creating a legacy project that will last for generations to come.

Team Bios – Key Personnel

Heather Jamison, PE **Role: Project Manager**
Licensed Professional Engineer: State of Michigan

Heather has a wide range of civil engineering expertise, from complex highway projects to trails. She has been involved most recently in such projects as the reconstruction of Marshall Road to include paved shoulders for pedestrian movements and multiple construction engineering for Federal and State aid road projects for Local Agencies. With her previous employer she was involved in the design and construction of the TART trail between Lautner Road and S. Bates Road. She is familiar with AASHTO and MDOT standards and procedures, FieldManager software, MERL, MDOT Prevailing Wage, and has implemented all of them in design of transportation projects.

Jason Juilleret, PS **Role: Surveying Manager**
Licensed Professional Surveyor: State of Michigan

Jason has 13 years' experience with topographic surveys, boundary surveys, route surveys, alignment and right-of-way surveys, photogrammetric ground control surveys, GPS surveys, and road and constructions staking.

Joe Williams, EIT **Role: Design Engineer**
Engineer-In-Training: State of Michigan

Joe has worked 5 years in multiple aspects of the transportation field, including design; grant writing, material testing, and inspection. He is certified in soil erosion and sediment control, experienced with software design tools, and construction specifications and drafting.

Tristan Graham **Role: CAD Technician/Licensed Drone Pilot**
Tristan is a CAD technician and visualization specialist, collecting aerial data from the field and importing it into CAD to create three-dimensional renderings of sites. This allows for an in-depth evaluation of alternatives, and provides a great way for project stakeholders to get a clear picture of their project options as they move toward selecting a preferred direction.

Sub-Consultant – GEI (Wetland Determination)

GEI Consultants of
Michigan, P.C.
1755 Barlow Street
Traverse City, MI
49686
231.933.4041

Stu Kogge **Role: Wetland Determination**
Stu has 30 years of experience in the field of natural resources and wetlands. He has worked with many agencies all over the state, regarding wetland impacts and potential mitigation needs. His knowledge, combined with his experience and established relationships with regulatory agencies will provide expertise in the critical design area near Acme Creek.



Staff Education and Experience Report

NAME **Heather M. Jamison, P.E.** **TITLE** **Project Manager** **ROLE ON THIS SERVICE** **Staff Engineer/Lead Field Technician**

COMPANY NAME
GFA Gourdie-Fraser, Inc.

YEARS OF EXPERIENCE
3 with company 15 with other local government
Local government work, includes 3 years as the Engineer and Manager for the Benzie County Road Commission, and nearly 12 years with the Grand Traverse County Road Commission, the last 6 of which were as the County Highway Engineer. This tenure in the public sector afforded Ms. Jamison a unique knowledge base to assist communities coordinating project planning, phasing, and budgeting.

EDUCATION: DEGREE, YEAR, SCHOOL inc. city and state of school
Michigan Technological University, Houghton, MI – B.S. Civil Engineering, 2000

LICENSES AND REGISTRATIONS type, year, state, number
Michigan Professional Engineer – License Number 52004; MDOT Office Technician Certification (Exp. 2021)
TAMC PASER Rating Certified for 2019; MDEQ Soil Erosion Sediment Control (Exp. 2020)
MDEQ Storm Water Management – Construction Site (Exp. 2023); MDOT Bridge Construction & Rehabilitation

GENERAL EXPERIENCE AND QUALIFICATIONS

Ms. Jamison has civil engineering expertise in design for roadway capital improvement projects and preventative maintenance techniques, as well as, storm water control and management, as it relates to municipal engineering and land development projects. Ms. Jamison served in the capacity of a design engineer and project manager, providing engineering services to multiple governmental entities in the State of Michigan as the Manager and Engineer for the Benzie County Road Commission, following her experience as the County Highway Engineer for the Grand Traverse County Road Commission. In addition to project design, Ms. Jamison's background includes extensive experience in road plan development and review, compliance with MDOT requirements and specifications through Local Agency Programs, construction engineering, and contract administration. Ms. Jamison also has specialized expertise utilizing the software and programs specific to road agencies, including the PASER rating system, MERL and Roadsoft. Ms. Jamison is familiar with AASHTO and MDOT standards and procedures and has implemented both in design of roadway projects.

SPECIFIC EXPERIENCE

YEAR	PROJECT I.D.	ROLE AND DESCRIPTION OF SERVICE
2018	Downtown Riverwalk – Boardman River City of Traverse City/DDA	Project manager for a new boardwalk along the Boardman River in downtown Traverse City, MI. Project includes final design and construction administration services for the Boardman River Boardwalk at Uptown between Union Street and West Front Street with an upgrade to the existing boardwalk and an extension along the newly constructed Uptown development to the property line with Riverview Terrace. Additionally, the project team is to pursue opportunities to extend the riverwalk further downriver along the Riverview Terrace property, 305 West Front, 310 West Front, and 302 West Front to the northern Union Street bridge.
2017	Village of Elberta Capital Improvement Plan (Streets)	Prepared street condition assessment based on PASER, developed report of assessment, created recommendations, and prioritized necessary street maintenance improvements, estimated associated costs for respective work, and provided budget analysis.
2017	Woodlawn Bridge Resurfacing City of Clare	Heather Jamison served as the staff engineer, project manager, and lead field technician on this project to remove and replace a timber deck on an existing bridge crossing of Tobacco River at Woodlawn Road. The project design scope included evaluating alternatives to achieve suitable load ratings at a conservative cost. GFA provided the professional engineering services for design recommendation, advertisement for bids, construction engineering, material testing, staking, and contract administration. This project was expedited and completed in the winter of 2017.
2015	Benzie County Road Commission/Conservation Resource	Heather Jamison served as the staff engineer, project manager, and lead field technician on this project to provide field review and assessment of all restrictive culvert between



Staff Education and Experience Report

NAME
Jason A. Juilleret, P. S.

TITLE
Project Manager

ROLE ON THIS SERVICE
Survey Manager

COMPANY NAME
Gourdie-Fraser, Inc.

YEARS OF EXPERIENCE
2 with company 12 with other consultant/vendors

EDUCATION: DEGREE, YEAR, SCHOOL

Bachelor of Science, Surveying Engineering, 2006 and AAS Science Surveying Technology, 2005, Ferris State University, Big Rapids, Michigan BAA, Industrial Supervision & Management, 1999, Central Michigan University, Mt. Pleasant, Michigan

LICENSES AND REGISTRATIONS

Professional Surveyor, Michigan, 2008, License #55905
Land Surveyor, Wisconsin, 2010, License #2950,
Professional Land Surveyor, Minnesota, 2010, License #47958,
Professional Surveyor, Ohio, 2012, License #8583,
Professional Land Surveyor, Indiana, 2014, License #21400007

GENERAL EXPERIENCE AND QUALIFICATIONS

Mr. Juilleret has 13 years of surveying experience, including construction layout and staking, route surveys, alignment and right-of-way surveys, photogrammetric ground control surveys, topographic surveys, survey mapping, GPS surveys, road and construction staking. Past projects have been completed for road commissions, municipalities, commercial and private landowners. Jason has experience with MDOT design surveys, MDOT data collection for DTM mapping for topographic surveys, boundary surveys, ALTA/ACSM Land Title Surveys. He is responsible for performing field work, recording field data using GPS Static and RTK techniques and conventional surveying equipment, and data input into various software programs for data reduction, computations and mapping. Jason has knowledge and experience with software programs including Leica Geo Office, STARNET, AutoDesk Land Development Desktop, AutoDesk Civil 3D, Carlson SURvCadd, as well as techniques for coordinate conversions, least squares analysis. Jason has extensive knowledge of Michigan State survey law.

SPECIFIC EXPERIENCE

YEAR	PROJECT ID	ROLE AND DESCRIPTION OF SERVICE
MDOT EVAL.		
2017	MDOT- US-31: Railroad Bridge to 1700' North of Crystal Drive, Benzie Twp., Village of Beulah (CS10032-JN129536 00) / (Contract Amount: \$101,429.17) Contact: Ray Kihn kihnr@michigan.gov	Project Surveyor responsible for QA/QC of this project t. MDOT right-of-way, road design, and topographic survey. Gourdie-Fraser provided topographical mapping, terrain mapping, legal and construction alignments, right-of-way determination, and a drainage structure inventory for US-31. Mapping was done 75-100 feet both sides of the US-31 centerline. The project included the survey of approximately 6500 lineal feet of US-31 with an additional 600 lineal feet of side streets. This project required two miles of differential leveling. Two existing primary control points were tied into and two additional primary control points were established.
2017	MDOT- US-31: Murchie Bridge to M-72, Grand Traverse and Leelanau County, City of Traverse City and Elmwood Township (CS28013-JN132909 00) / (Contract Amount: \$190,556.50) Contact: Ray Kihn kihnr@michigan.gov	Project Surveyor responsible for QA/QC of this project. MDOT right-of-way and road design. Gourdie-Fraser provided topographical mapping, terrain mapping, legal alignment, right-of-way determination, and a drainage structure inventory for US-31. Mapping was done to the ROW of US-31. The project included the survey of approximately 9800 lf of US-31. This project required 3.7 miles of differential leveling. Seven existing primary control points were tied into for this project.

Stu Kogge is a wetland and aquatic biologist with over 30 years of natural resource and wetland experience. Stu worked for the United States Fish and Wildlife Service (USFWS) and Michigan Department of Natural Resources (MDNR) on several projects involving fish and aquatic assessments. He worked with the MDNR Cadillac District office, administering and enforcing the State's various Great Lake, inland lakes and streams, and wetland statutes for 10 years. Stu was promoted to the Michigan state-wide coastal wetlands biologist position and then to the state-wide wetlands biologist position. He took an early retirement from the MDNR/MDEQ to start a non-profit organization and a private consulting firm.

In 1999, Stu started Wetland and Coastal Resources, Inc. (WCR), and in 2000, The Institute for Wetland and Coastal Trainings and Research. WCR provided ecological services relating to wetlands, lakes, and streams, while the non-profit organization conducted wetland delineation, mitigation and assessment, and botanical plant identification classes that catered to MDNR, MDEQ, Michigan Department of Transportation (MDOT), and other private consulting firms, provided environmental education classes to grade-schoolers, and conducted coastal research with the University of Michigan. Stu later joined another ecological consulting firm, serving as senior wetland/aquatic biologist. Main roles included driving business in the natural resources field of wetlands and aquatics, mentoring and providing wetland and botanical training and consistency oversight for younger staff, and serving as client and/or project manager for numerous clients. His greatest assets are his many years of experience and relationships with the regulatory agencies, extensive knowledge of wetlands and plant communities, his ability to strategize and tackle complex or daunting projects, and leading clients through the most difficult regulatory processes/projects.

PROJECT EXPERIENCE

Ottawa County Water Resource Commissioner, Sand Creek Drain, Ottawa County, MI. Sr. Wetland/Aquatic Biologist and co-Client Manager. Conducted a comprehensive ecological and hydrological assessment of Sand Creek including, but not limited to, documenting, obstructions to natural flow, erosion, sedimentation, point and non-point sources of pollution, pebble counts, cross-sectional and longitudinal profiles, and biotic assessments (e.g. fish and macroinvertebrates). These assessments enabled a modeling of the watercourse and a more comprehensive understanding of the creek and its adjacent lands. A comprehensive report is currently being prepared for, but not limited to, summarizing these assessments and providing site and method specific recommendations for addressing the various point and non-point sources of pollution, adding in riparian buffers, creation/restoring of wetlands for increased stormwater detention and pollutant uptake, an overall improvement of the water quality of Sand Creek.

Kalamazoo River and Talmadge Creek Restoration, Confidential Client, Calhoun to Kalamazoo County, MI. Site Manager, Senior Wetland/Aquatic Biologist, and NRDA lead contact with the client and the agency liaison. Numerous services and tasks were provided by Mr. Kogge and colleagues commencing in September 2010. Tasks completed during the course of the project included development of interim and final restoration plans, integration of bioengineering measures along the creek and stream corridor, delineation and assessment of wetland communities and potentially impacted natural areas, completion of construction zone tree surveys, quantitative assessment and

EDUCATION

M.S., Fisheries/Aquatic Biology, Limnology,
Michigan State University
B.S., Fisheries and Wildlife Management,
Michigan State University

EXPERIENCE IN THE INDUSTRY

30 years

EXPERIENCE WITH GEI

2 year(s)

CERTIFICATIONS

Professional Wetland Scientist
Storm Water Management Operator exp. 2018
Soil Erosion and Sedimentation Control
(Comprehensive) exp. 2018
40-Hr OSHA HAZWOPER
8-Hr HAZWOPER Refresher
American Red Cross Adult CPR/AED

TRAININGS

Wetland Delineation and Regional Supplement
Training
Defined Streams and Wetland Consistence
Training
Hydic Soils
USACE Midwest Regional Supplement
Wetland Restoration Techniques and
Incentives
Creating and Restoring Urban Wetlands
Identifying Key Wetland Indicator Plants and
Creating & Restoring Wetlands in an Urban
Environment
Shrub Identification

PROFESSIONAL ASSOCIATIONS

Society of Wetland Scientists, Member
American Fisheries Society, Member
Michigan Wetlands Association, Member

AWARDS

Employee of the Year, Cardno JFNew, 2010
Sparkplug Award, MDEQ, 1997
Sparkplug Award, MDEQ, 1995
Outstanding Service, Michigan Envirothon,
1996
Land and Water Management Division
Employee Award, MDEQ, 1990

MDEQ permit application. Provided recommendations on sizing of stream crossings and other aspects of the application to reduce long-term maintenance costs to the road commission.

Parmenter Marsh -Wetland Mitigation Bank, Mr. Brian Parmenter of Al-Par Peat, Shiawassee County, MI. Conducted preliminary site and wetland delineations and assessments followed by coordination with MDEQ Mitigation Banking staff to develop and eventually establish a wetland mitigation banking agreement with MDEQ and Al-Par Peat. The bank is currently proposed at approximately 150-acres in size and is currently under construction.

Knights Creek Mitigation Bank, Wisconsin Department of Transportation, WI. As Senior Wetland Biologist, conducted wetland delineations and assessments to document the development of wetlands within the WisDOT constructed wetlands. Under a master contract with Wisconsin DOT, contracted for wetland delineations on several mitigation banks totaling more than 700 acres. Conducted field surveys, compiled and analyzed wetland data, developed GIS site mapping, and completed a summary report. Sites included multiple wetland types and several atypical situations and problem areas.

Wetland Training Sessions, Indiana Department of Environmental Management, IN. Presenter and Field Workshop Biologist. Led a series of workshops to enhance understanding of wetland functions and values by providing a general overview of wetlands in both classroom and field settings. This included oversight of the development of an electronic invitation, emailing more than 1,300 potential participants, coordinating the electronic registration, and coordination of the workshop team, materials and logistics. More than 150 people participated in the workshops throughout the state. He presented "Wetland Restoration Techniques and Incentives" and helped conduct field exercises as part of a workshop series funded by the Indiana Department of Environmental Management and (IDEM) and Indiana Department of Natural Resources.

Harbor Shores Community Redevelopment, City of Benton Harbor, Berrien County, MI. Project Manager and Sr. Wetland Biologists/Botanist for Wetland and Coastal Resources conducting wetland, threatened and endangered species, and environmental assessments, provided document review and guidance to the City of Benton Harbor. As Technical Sr. Wetlands Biologist, provided additional ecological support, prepared federal court documents, and acted as liaison with City of Benton Harbor (former client). Part of a lead consultant for permitting, threatened and endangered species surveys, and stream and wetland mitigation design of an approximately 500-acre community revitalization project that began in 2005. The project, located along the Paw Paw River, is and has revitalized the Benton Harbor economy. The permitting phase of the project involved interaction with City of Benton Harbor, Michigan DEQ, USACE, USEPA, USFWS, National Park Service, State Historic Preservation Office, and Michigan DNR Wildlife and Fisheries Division. As the wetland biologist, Stu provided regulatory guidance and conducted threatened and endangered species assessments to aid in obtaining final USACE permit approvals.

Grand Landing LLC. Project Manager, Sr. Wetlands Biologist, Botanist, MDEQ Liaison - Conducted wetland and threatened and endangered species assessments and designed mitigation wetlands for multi-million dollar gateway project for the City of Grand Haven, Ottawa County, Michigan. Compiled, submitted and coordinated with agencies the issuance of both MDEQ and USACE permit applications for over an acre of coastal wetland impact and over 2 acres of coastal mitigation.

Carrier Creek Drainage District. Project Manager (early years), Sr. Wetlands Biologist, Aquatic/Fisheries Biologist; Botanist, MDEQ Liaison - Conducted wetland, fisheries and aquatic (Michigan Procedure 51) and threatened and endangered species assessments for multi-million dollar drainage district project in Eaton County. Over 5,000 acres of land were assessed for wetlands and threatened and endangered species. Designed mitigation wetlands, compiled, submitted and coordinated with agencies the issuance of MDEQ permit application. Our team also obtained 1.3 million in state grants (CMI and 319) to implement this project.

US-131 (Bypass of City of Constantine) - Project Manager, Sr. Wetlands Biologist, Fisheries/Aquatic Biologist, Botanist. Conducted wetland delineations and assessments, fisheries and aquatic (Michigan Procedure 51) and threatened and endangered species assessments (including Indiana bat and herps) for proposed bypass road

II. Similar Project Experience

Traverse City Downtown Development Authority – Riverwalk Phase I (GFA)

The project included repairs and maintenance to an existing section of the Riverwalk boardwalk along with the design and expansion. This project design required the inclusion of barrier free elements and complying with ADA guidelines. GFA initiated a public input session, stakeholder meetings, preparing permit applications, preliminary and final design, as well as construction phase services.



Key personnel: Heather Jamison – Project Manager Funding: DDA/Various
Current Status: Under Construction Reference: Jean Derenzy, DDA (231.922.2050)

City of Cheboygan Trailhead (GFA)

This key trailhead, part of the North Central State Trail, unites the Gaylord-Mackinaw City with the Alpena-Cheboygan Trail. In 2008 the trail was named as one of the top five autumn destinations in the nation by Rails to Trails Conservancy. The completed design includes parking, trails, restrooms, and more. Working closely with the MDNR, Emily Meyerson and key stakeholders GFA provided the final design and construction engineering. MDNR funded this project.



Key personnel: Brian Boals – Designer Funding: MDNR Trail Type: Non-Motorized
Current Status: Complete Reference: Annamarie Bauer, MDNR Project Manager
(517.335.5708)

Accessibility (Switchbacks & Elevation Changes) UA Non-Motorized Launch Site - Torch Lake/Forest Home Township (GFA)

This challenging MDNR site was very small with a significant change in elevation. GFA worked closely with MDNR representatives to create a switchback design to meet the elevation challenges and retain universal accessibility. MDNR also provided grant funding for this project.



Key Personnel: Brian Boals – PM/Designer
Funding: MDNR Trail/Park Type: Non-Motorized Current Status: Complete
Reference: Terry Smith, Supervisor (231.533.8003)

Kid's Creek Tributary A Restoration, Munson Traverse City Campus)

This project returned Tributary A to a more natural channel, created a greenway, and included the construction of new bridges as well as extensive reconstruction. GFA assisted with survey data collection, development of the HEC-RAS model for the river re-routing and construction observation/testing services.



Key Personnel: Tristan Graham – CAD Technician

IV. Construction Cost Control and Scheduling

Project Understanding

It is our understanding the Acme Township through this request for proposals desires to move forward with a final design of Segments 1, 2, 4A, 5A, and 7 of the Acme Trail Connector Trail which is generally defined by limits between Bunker Hill Road and The Village at Grand Traverse property. This final design effort would be based upon a preliminary design produced in 2016. This preliminary design identified the proposed separated alignment for segments 1, 2, and 7. Segments 4A and 5A will alter from the proposed alignment and shall be designed as a shared road facility along Mt. Hope Road. As outlined in the request for proposals, the scope of services for this project will be delivered by the GFA team through three general categories: Topographic Surveying and Mapping Services, Public Input, and Design Phase Services. Construction phase services including construction administration, observation and material testing are not included in this request for proposal, however can be provided by GFA for an additional fee.

Topographic Surveying & Mapping Services

Topographic survey and mapping services will be performed to provide data sufficient for design and identify area detail necessary for permitting applications and preparation of contractor bid documents. The project route is approximately 1.2 miles in length, we propose to collect topographic data, included top of bank elevations and delineated wetland areas. This specific field data will be necessary to develop a final design, evaluate criteria from public feedback sessions, and permitting applications.

Mapping services include researching right of way and private property boundaries. Exhibits and recordable easement documents will be prepared for alignment over private property. Survey services will also include preparing documents with descriptions for grading easements. Utility locations will be identified and evaluated to determine existing or potential utility conflicts.

Prior to releasing the documents for design, a complete drawing will be drafted showing all researched and field collected data.



Conceptual Rendering Example – Drone + Survey Data

Public Input

Through the public input portion of the scope of services, the GFA team will provide experienced leadership in working with project stakeholders including: Grand Traverse County Road Commission, TART Trails, and Acme Township. In addition to the stakeholders group, our team will also look forward to being a strong partner to present the proposed project at a public meeting. Our team will be well represented with professionals having specific experience and knowledge in planning, and civil/construction engineering expertise available at all meetings. As defined in the request for proposals, we anticipate two (2) stakeholder group meetings and two (2) public hearings.

As detailed in the following timeline, we would suggest the first stakeholder group meet in spring 2019, with public outreach meetings scheduled shortly after so feedback may be incorporated as the design progresses to 90%. The GFA team will be well positioned to provide support as needed with all meeting exhibits and presentation materials, as well as provide assistance with collecting and compiling questions and comments received during public input sessions to utilize as a resource and information to assist with the preliminary design efforts.

- Crossings. Trail crossing of Acme Creek and the wetlands at the east of the proposed project limits will require careful evaluation of potential solutions for a clear span crossing, or possibly a pre-fabricated timber bridge structure, as well as consideration for a culvert crossing. This may be an example of weighing the sometimes conflicting priorities of minimizing project cost versus environmental impact. Collaboration with the MDEQ will also be important in identifying the most favorable alternative for this sensitive area.
- Slope stability concerns. Areas along Mt. Hope Road are directly adjacent to steep slopes on the East side of the road that may require mechanical stabilization to accommodate the trail project. If the desire is to stay within County Road Right-of Way, careful consideration of surface earth stability as well as subsurface drainage and global stability of slopes will be necessary. Design for the shared road trail will require working closely with the Grand Traverse County Road Commission and area property owners as key project stakeholders along Mt. Hope Road. Acquiring a permit from the county road commission will be required.
- Construction equipment access. Establishing and maintaining access to construction sites can be a major challenge for projects such as this. The separated trail segments 1, 2, and 7 do not have adjacent trail access, and accessibility will need to be found along the trail route or through private property agreements.

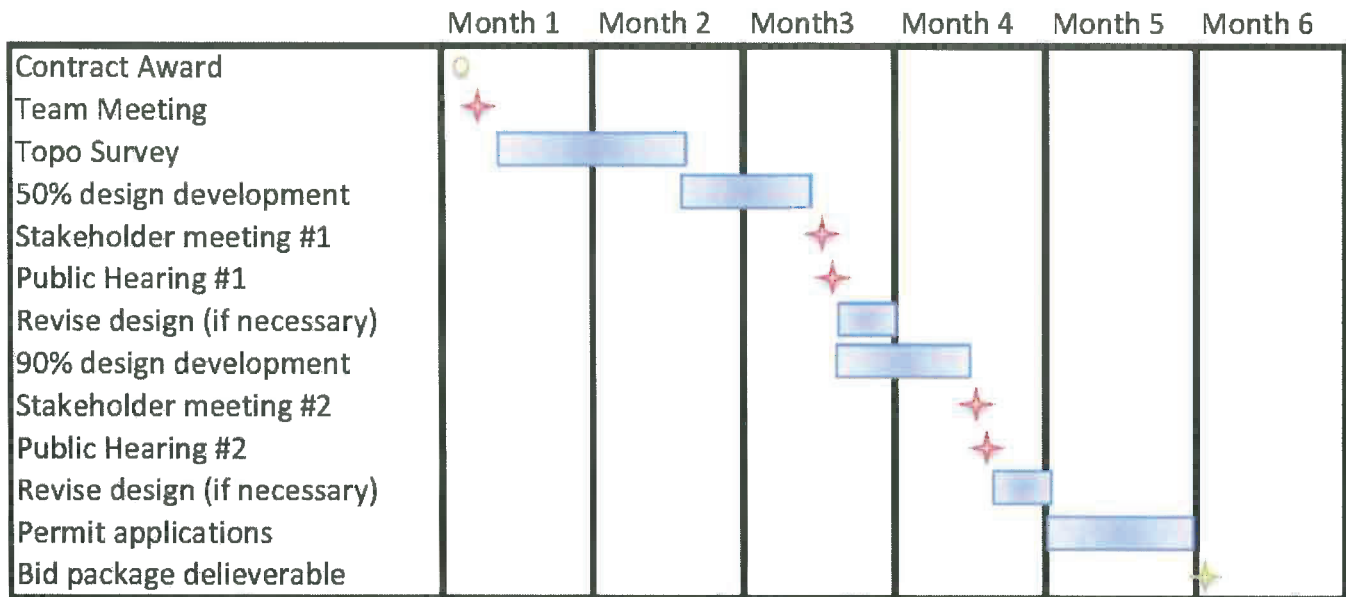
Long-Term Maintenance Concerns

Due to the non-vehicular nature of traffic for the trail and suitable subgrade conditions anticipated under the project areas, we do not anticipate that pavement deterioration or subgrade failures will be a major concern with regards to long-term maintenance. It has been our experience that the major issues are generally related to root intrusions, vegetation control, and drainage/erosion control issues. During the design process, a detailed field investigation would identify areas which may present problems involving tree or root locations and existing drainage problems which may be resolved through re-grading or other improvements to better handle runoff. Specifications may include selection of turf grasses and slope restoration measures which have limited growth reducing the need for mowing or maintenance.

V. Line Item Costs

Geotechnical Services	---
Topographic Survey and Mapping Services	\$ 29,200.00
Public Input and Coordination (includes 2 public hearings and 2 stakeholder meetings)	\$ 4,300.00
Design Development Services (includes obtaining all necessary permits)	\$ 30,090.00
Construction Documents Phase Services	\$ 3,000.00
Bidding and Award Phase Services	\$ 500.00
<u>Total not to Exceed Design Services Costs</u>	<u>\$ 67,090.00</u>

VI. Timeline





DECEMBER 13, 2018

Proposal for Professional Design Engineering Services

Acme Connector Trail
Bunker Hill Rd to Village at Grand Traverse

Acme Township Hall
6042 Acme Rd
Williamsburg, MI 49690

December 13, 2018



Mr. Shawn Winter, *Planning & Zoning Administrator*
Acme Township
6042 Acme Road
Williamsburg, MI 49690

**RE: Trail Design Engineering & Construction Document Services
Acme Connector Trail**

Dear Mr. Winter:

The Acme Connector Trail provides an exciting connection to the TART Trail that will enhance Acme Township's connectivity to businesses and recreation opportunities. This important spur will allow for improved access within Acme Twp as well as access to Traverse City and The Leelanau Peninsula via the TART Trail and eventually access to Elk Rapids, Charlevoix, and beyond when the ongoing trail development efforts are realized. We appreciate the detail provided within the RFP as it provided useful information for understanding the goals of the project. Thank you for considering OHM Advisors for this very important trail project.

OHM has the expertise to make your vision a reality. Key elements identified in our proposal are as follows:

Communication – OHM staff understand that clear communication with Acme Township and the public will ensure the project is developed to meet your needs.

Technical Excellence – OHM's experts in landscape architecture, survey, GIS and engineering understand how to develop design plans to ensure a quality trail is developed.

Experience – OHM staff are currently designing six trail projects in northwest Lower Michigan totally over 20-miles. The staff assigned to this project have been providing professional services for trail projects like this one for over 20 years.

On behalf of the OHM team, we look forward to working with you. If you have any questions or comments on our proposal, please contact me at 231.344.1150. Thank you for this opportunity.

Sincerely,
OHM Advisors

A handwritten signature in black ink, appearing to read "Steven L. Warren". The signature is fluid and cursive, with a long horizontal stroke at the end.

Steven L. Warren, PE
Principal in Charge

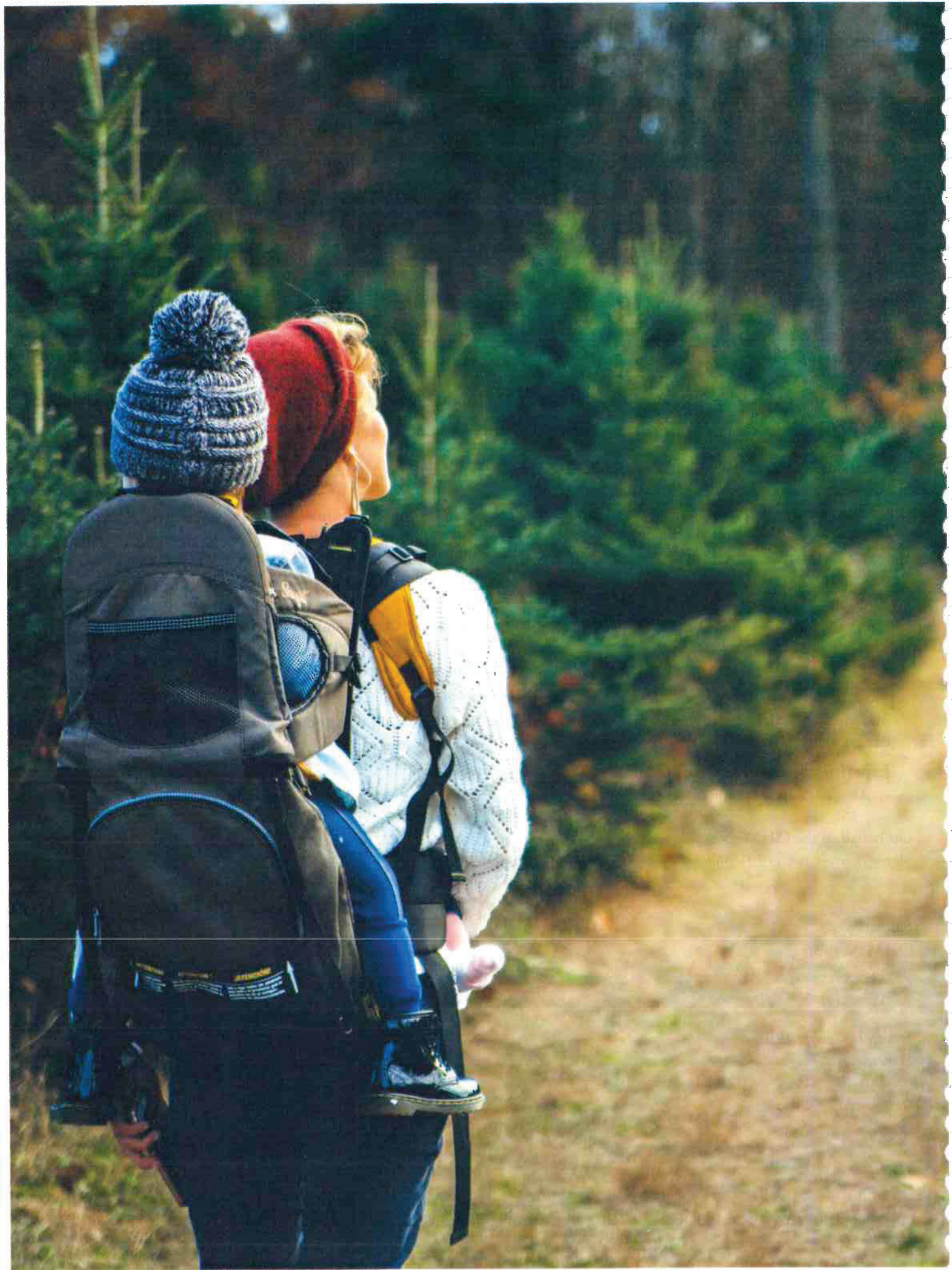




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- Description of Team
- Services
- Key Resumes
- Understanding of Project

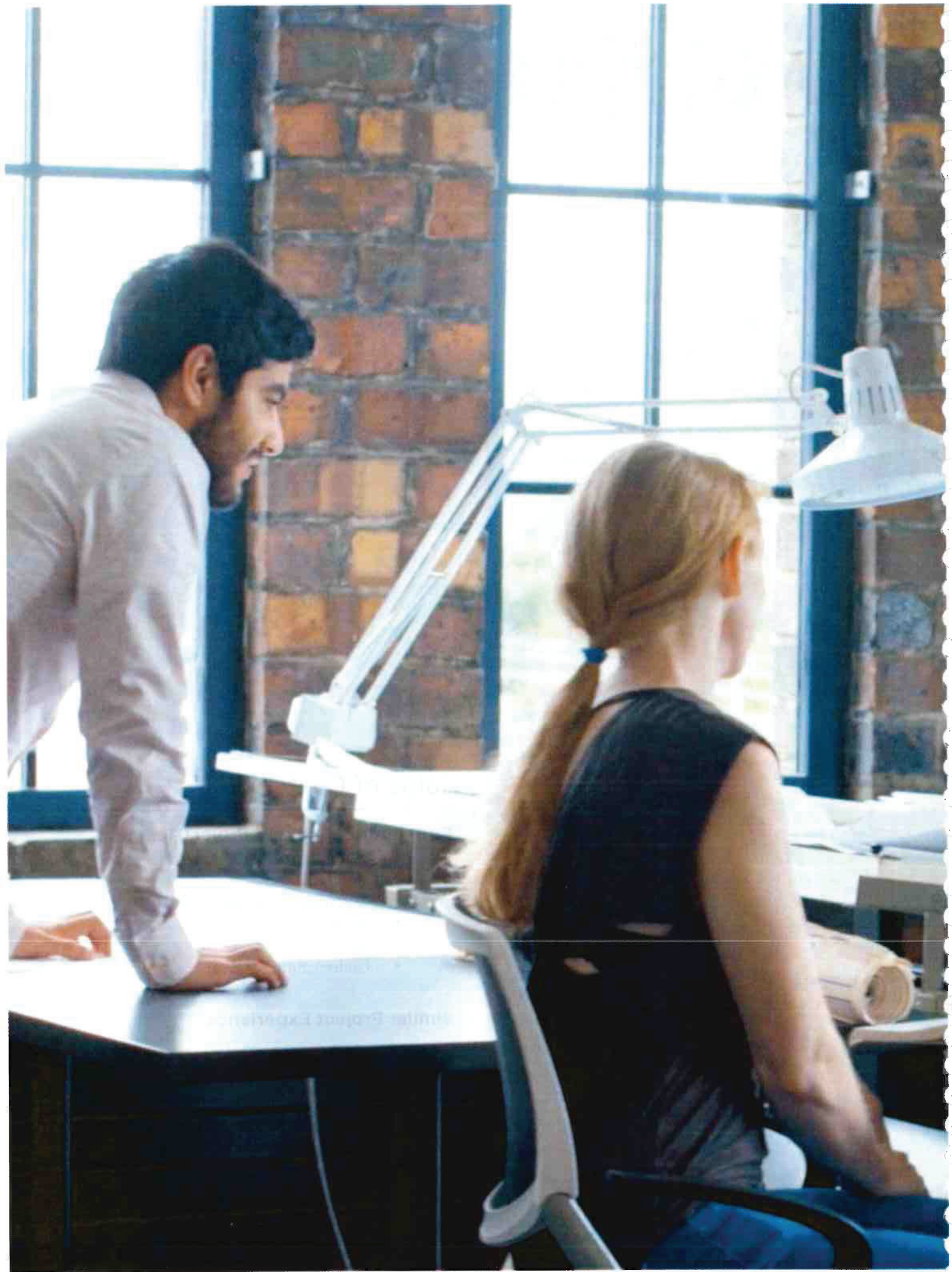
Similar Project Experience

Construction Cost Control and Scheduling

Experience with State / Federal Funding

Line Item Costs

Timeline





FIRM INFORMATION AND PROJECT TEAM

Firm Information



Community is at the center of everything we do.

As a team of nearly 500 multidisciplinary professionals in three states, we're wildly diverse and singularly passionate about Advancing Communities.

We've proudly had an impact on many communities over the past five-plus decades, but are especially honored that our four original clients are still with us today. We like to think it's because infused into everything we do is the belief that putting people first makes an impact on a community.

14

LOCATIONS

Michigan, Ohio & Tennessee

Petoskey Office

OHM Advisors
330 E. Mitchell Street, Suite 2
Petoskey, MI 49770
T 231.344.1150

In House Capacity

- 25 Architectural Staff Members
- 31 CADD Technicians
- 98 Civil Engineers
- 73 Construction Inspectors/Managers
- 9 Mechanical / Electrical Engineers
- 6 GIS Specialist
- 22 Surveyors
- 19 Landscape Architects
- 10 Planners
- 6 Technicians/Analysts
- 46 Transportation Engineers
- 7 Structural Engineers
- 33 Water Resources Engineers/Sanitary Engineers
- 55 Administrative Professionals

Team Member Hourly Rates

Personnel Role	Hourly Rate
Steven Warren, PE	\$175.00
Lucas Porath, PE	\$158.00
Vanessa Warren, ASLA	\$105.00
Jason Fate, PE	\$145.00
Chris Powell, EIT	\$115.00
Amanda Porath, PE	\$145.00
Michael Nachazel, PS	\$145.00
Eric Tourre	\$115.00
Edward Radecki	\$110.00

Our Services

What We Do

Our services list is long, but our philosophy is simple:

Advancing Communities. It's the approach that **guides us in everything we do.**

Civil Engineering

Transportation & Traffic

- Bridge Design, Inspection, Scoping, Rating
- Highway/Interchange Design & Enhancements
- NEPA Planning, Governmental Reviews & Permitting
- Community-Based Streetscape, Complete Street Designs
- Safety Studies, Capacity Analysis, Data Collection
- Traffic Signal Design
- Roundabout Analysis & Design

Stormwater Management

- Stormwater, Drainage, Watershed Planning & Asset Management
- Hydrologic & Hydraulic Modeling
- Stream Restoration Analysis & Design
- Low Impact Development, LEED Site Design
- Collection & Conveyance Design
- Stormwater Utilities
- Permitting & Ordinance Writing

Wastewater Systems

- Facility Master Planning & Asset Management
- Hydrologic & Hydraulic Modeling
- I/I, SSES Analysis & Flow Metering
- Pump Station, Collection System Design & Rehabilitation
- Wastewater Treatment Plant Design
- SCADA Systems

Drinking Water Systems

- Facility Master Planning & Asset Management
- Hydraulic Network Modeling
- Source Water Protection
- Storage Facility, Booster Pump Design & Inspection
- Water Treatment Plant Design
- SCADA Systems

Municipal Engineering

Community Engineering

- Process/Plan Review
- Standards, Ordinance Development
- Stakeholder/Public Engagement
- Strategic Planning

Infrastructure Assessment & Planning

- Pavement Maintenance
- Sewer
- Capital Improvement

Design & Implementation

- Non-motorized Path/Sidewalk
- Utilities
- Roadways
- Parks/Recreation

Architecture

- Site & Facility Evaluation
- Facility Master Planning
- BIM, 3D Modeling & Renderings
- Space Planning & Programming
- Interior Design & Finishes
- Design (incl. LEED) & Documentation
- Construction Administration

Mechanical & Electrical Engineering

- Energy Audits
- HVAC System Design
- Lighting & Controls
- Plumbing System Design
- Fire Protection and Fire Alarm Systems
- Power Distribution
- LEED/Sustainability

Planning & Urban Design

- Community Planning & Visioning
- Park, Streetscape & Corridor Design
- Economic Development Strategies
- Transportation Planning
- Land Planning
- Zoning & Entitlements
- Codes & Standards

Surveying

- Topographic, Right-of-way, Boundary & Geodetic Control Surveys
- Road Design Surveys
- Bridge Surveys
- Hydraulic Surveys
- Construction Staking
- Global Positioning System (GPS) Surveys

Construction Engineering

- Construction Observation
- Fieldbook Administration
- Construction Documentation
- Contractor Payment Requests
- Field Engineering
- Contract Administration & Close-Out
- Preconstruction Meetings

Funding Procurement & Administration

Geospatial Decision Making/GIS

Description of Team

OHM Advisors understands that this project requires services and labor necessary to conduct and complete the Design Engineering Services described within the Request for Proposal. OHM Advisors has assembled an experienced team of qualified professionals with considerable years of trail design and construction, with state funded projects and Local Agency experience for County governments, Road Commissions, and Municipalities performing these services. OHM Advisors has the capacity to

exceed the quality expectations of Acme Township, TART Trails and the other stakeholders. The OHM Advisors staff is immensely familiar with this area and its stakeholders, along with expectations pertaining to public engagement, design, permitting, inspection and testing associated with trail projects. Our proposed team has spent a great deal of their professional lives interacting with the public, designing and recreating non-motorized trails that form a strong foundation to bring the Township a quality project.



Client	
Acme Township	
Principal In Charge	
01 Steven Warren, PE	
T 989.393.1724 E steve.warren@ohm-advisors.com	
Project Manager	
02 Lucas Porath, PE*	
T 231.344.1164 E lucas.porath@ohm-advisors.com	
Landscape Architecture & Trail Design	
03 Vanessa Warren, ASLA, <i>Landscape Architect*</i>	
Constructibility QA/QC	
04 Jason Fate, PE, <i>QA/QC*</i>	
Engineering & Field Services	
05 Chris Powell, EIT, <i>Civil Engineer*</i>	
06 Amanda Porath, PE, <i>Structural Engineer</i>	
07 Michael Nachazel, PS, <i>Survey Manager</i>	
08 Eric Tourre, <i>Soil Borings</i>	
09 Edward Radecki, <i>Environmental Engineer</i>	
Community Engagement	
03 Vanessa Warren, ASLA, <i>Landscape Architect</i>	

*Key Resumes Included

Key Resumes

Lucas Porath, PE | Project Manager



Education

Bachelor of Science in Civil Engineering, Michigan State University, 1997

Professional Registration

Professional Engineer;
• MI, 2001, #48136

Experience

With OHM since 2017
20 years prior experience

Professional Certifications

- FHWA NHI Certificate of Training Safety Inspection of In-Service Bridges, November 1998 (80 hours)
- FHWA NHI Certificate of Training #130053 Bridge Inspection Refresher Training, March 2008 (24 hours)
- MDOT Pavement Design Training
- MSU / MDOT Advanced Roadside Design
- HEC-RAS River Analysis System Training
- TR-55 Engineering Hydrology Training
- ASCE The Five Pieces of Equipment Every Bridge Inspector Should Have (7129W2013)
- USDOT FHA Safety Inspection of In-Service Bridges
- Troxler Nuclear Gauge Safety Training Class

Background

Lucas is a motivated and driven professional engineer bringing over 20 years of valuable experience in the civil engineering field. He has served at every level in the industry, acting as an engineer, manager, and president. Lucas gained extensive management, business development, project management and technical experience. He has also developed an excellent reputation and cultivated professional relationships with many public agencies across the State.

Lucas has served as Project Manager/Engineer for design and construction for eight MDOT trunkline projects in the past ten years and upward of 50 MDOT local agency highway and bridge reconstruction and rehabilitations projects in the same period. He has experience with geometric design and roadside safety design, ROW plans, pavement marking and signing plans. He has also served as Top of Michigan Trails Council Board Member for the past five years.

Select Relevant Experience

Sleeping Bear Heritage Trail, Leelanau County, MI

Project manager on this project that OHM prepared preliminary design drawings and cost estimates for preferred trail alignments on this phase of the proposed Sleeping Bear Heritage Trail. The project was designed to comply with the AASHTO Guide for the Development of Bicycle Facilities and the Environmental Assessment conducted for the Sleeping Bear Heritage Trail. OHM led the Study Group through a decision making process called "Choosing by Advantages" to organize, document and process difficult decisions.

White Pine Trail Bridges, Montcalm County, MI*

Project manager and lead designer for this MDOT/MDNR trail bridge design project located on the Fred Meijer White Pine Trail over Rice Creek and Tamarack Creek, in Montcalm County, Michigan. The work included the design and development of construction documents for the removal of two steel girder/timber piling bridges and replacement with new substructures and prefabricated weathering steel through-truss superstructures (84-foot and 60-foot spans). Special design considerations were required to accommodate a critical fiber optic line and to provide protective coating to the bridge decks for snowmobile use.

Traverse City to Charlevoix Trail, National Park Service*

Engineer for Traverse City to Charlevoix Trail Concept Plan and Development Guide, prepared by the National Park Service - Rivers, Trails, and Conservation Assistance Program in cooperation with: TART Trails - Traverse Area Recreation and Transportation Trails, Inc. Top of Michigan Trails Council, Grand Traverse Regional Land Conservancy Networks Northwest and Northwest Design Group. Work included a route study, conceptual designs and budgets for entire 45.8-mile route.

Crawford County Iron Belle Trail Study, Crawford County Road Commission*

Project Manager and designer for route study, conceptual design, budgeting and phasing / funding plan for Iron Belle route through the entire county. Funding for the study provided by the Michigan Department of Natural Resources to the Crawford County Road Commission.

**Completed Prior to Joining OHM Advisors*

Key Resumes

Vanessa Warren, ASLA | Lead Trail Design



Background

Vanessa Warren is responsible for landscape design services including project planning, design, contract administration and quality systems oversight. Her experience is environmentally based in both planning and design. She has experience with all engineering disciplines, geologists, chemists, biologists, ecologists and architects. Vanessa has 18 years of experience in managing and performing parks and recreation master planning, streetscape improvements, site restoration, site development, illustrative master planning, grant writing and urban design. She also has experience providing research and design services to multiple agencies and municipalities.

Select Relevant Experience

Education

- Bachelor of Landscape Architecture, Michigan State University, Landscape Architecture, 2000
- Bachelor of Science, Purdue University Horticulture Science, 1989

Experience

With OHM since 2013
13 years prior experience

Professional Certifications

- Playground Equipment Installation and Safety Certification
- Leadership in Energy and Environmental Design

Sleeping Bear Heritage Trail, Leelanau County, MI

Performing oversight of preliminary design drawings and cost estimates for preferred trail alignments on this phase of the proposed Sleeping Bear Heritage Trail. The project was designed to comply with the AASHTO Guide for the Development of Bicycle Facilities and the Environmental Assessment conducted for the Sleeping Bear Heritage Trail. OHM led the Study Group through a decision making process called “Choosing by Advantages” to organize, document and process difficult decisions.

Iron Belle Trail Extension- Gale Road, Atlas Township, MI

Performing oversight of engineering design and construction, along with trail and landscape design services for the Iron Belle Trail from the Hegel non-motorized railway to the existing sidewalk system in Atlas Township. This design is to AASHTO standards and includes coordination with the County Parks, Road Commission, MDOT and MDNR. The trail design includes trail alignment, specified materials, drainage improvements, tree removals, and right-of-way and utility location.

Iron Belle Trail Extension Schematic- Gale Road, Atlas Township, MI

Performed a schematic design for the Iron Belle Trail from the Hegel Non-motorized railway to the existing sidewalk system in Atlas Township. This schematic design included a detailed cost estimate for trail alignment, suggested materials, drainage improvements, tree removals, and right-of-way and utility location.

Iron Belle Trail Extension- Perry Road, Atlas Township, MI

Performed a schematic design for the Iron Belle Trail from the Hegel Non-motorized railway to the existing sidewalk system in Atlas Township. This schematic design included a detailed cost estimate for trail alignment, suggested materials, drainage improvements, tree removals, and right-of-way and utility location.

Campus Trailway, The DOW Corporation Headquarters, Midland, MI

Designed a trail system over a mile in length to meet all AASHTO standards within the new headquarter's site for The DOW Corporation. This system included outdoor work stations on boardwalks overlooking a pond, retaining walls, planting plan, BPM water technology, stamped/colored concrete and landscape features.

Key Resumes

Jason Fate, PE | Constructibility QC

**Education**

Bachelor of Science, Civil Engineering, Michigan Technological University, 2001

Professional Registration

Professional Engineer
• Michigan, #53029

Experience

With OHM Advisors since 2018,
19 years prior experience

Professional Certifications

- MDOT Computerized Office Technician
- MDOT Materials Acceptance Process Training
- FieldManager® Training
- Certified Nuclear Gauge Operator
- Highway Safety Program – Practical Applications for Highway Construction/Work Zones
- Highway Safety Program – Introduction to Highway Construction/Work Zones

Professional Affiliation

American Society of Civil Engineers

Background

As project manager, Jason uses his extensive experience in road, bridge and municipal utility design and construction engineering. His expertise ranges from MDOT freeway design and construction engineering to MDOT local agency highway projects and local roads and streets. Jason began his career as construction inspector/testing technician on M-22, M-115 and US-31 reconstruction projects. Progressively increasing experience as design engineer and construction engineer to his current position managing projects and supervising other engineers and technicians. His construction engineering experience includes project engineer, Field Manager and Field Book expert operator, quantity measurement and documentation, soil erosion inspection, inspections of work to verify conformance with plans and specifications, construction staking, project reporting and record keeping, and materials testing. He has managed six major MDOT trunkline projects and over 20 MDOT local agency projects. Jason's experience as a designer includes geometric design that incorporated horizontal and vertical alignments and intersections, survey, hydrologic and hydraulic analysis, guardrail, storm sewer, culvert and other drainage facilities in accordance with AASHTO and MDOT standards and procedures. His experience also includes writing special provisions, producing estimates on MDOT projects and proficient with MDOT's policies and procedures. Jason is fluent with AutoCAD Civil 3D and Microstation. Experience with other firms includes full construction project management and supervisory work as a building contractor. Highly proficient with construction scheduling and problem solving.

Select Relevant Experience**Cass Road Bridge over McMahsters Creek, Grand Traverse County, MI**

Project Engineer for the construction of a new bridge over the historic location of the Boardman River just west of the Boardman Dam on Cass Road by the Grand Traverse County Road Commission. This new bridge was constructed to facilitate the removal the Boardman River Dam and Cass Road bridge as part of the overall Boardman River dam removal and river restoration project. Services included construction engineering and materials testing services for the replacement of this bridge. The bridge is a three span prestressed concrete I-beam bridge with steel and concrete diaphragm's, constructed on a super elevation with a total span of 261 feet, supported by H-piles and concrete abutment and piers. This bridge was a critical competent to the overall Boardman River restoration project.

North Region Signal Upgrades Materials Testing

Project Manager for this traffic signal modernization project. Performed soil & HMA density and concrete QA testing and inspection services for concrete curb, gutter, sidewalk and ramp upgrades at 7 locations on I-75BL, M-32, M-55, M-119, US-23 and US-31, Alcona, Emmet, Otsego, and Roscommon Counties.

Key Resumes

Chris Powell, EIT | Lead Civil Engineer**Education**

Bachelor of Science in Civil Engineering, Michigan State University, 2016

Professional Registration
Engineer in Training

Experience

With OHM since 2018
2 years prior experience

Professional Certifications

- ACI Concrete Field Testing Technician – Grade I
- MCA Concrete Field Testing Technician – Grade I
- MDOT Density Technology – 11736-0521
- US DOT & IATA HAZMAT Certification
- Troxler Nuclear Gauge Safety Certification

Technical Skills

- Site Development
- Stormwater Drainage Design
- Transportation Design
- AutoCAD Civil 3D

Background

Chris' versatile design skill set allows him to contribute to various stages of the design and planning process for both site development and transportation related projects. Chris completed his undergraduate studies earning a Bachelor's Degree in Civil Engineering from Michigan State University. His experience covers a variety of projects involving field work including construction inspection and testing; and design work including site development, stormwater management, and transportation design. His wide range of project experience has helped him gain a unique perspective in solving complex problems with multiple design solutions. His responsibilities include planning, design, estimating, and coordinating project permitting requirements with agencies that have included: MDEQ, Drain Commissions, local soil erosion/sediment control agencies, U.S. Army Corps of Engineers, MDOT, local Road Commissions and other regulatory agencies to develop the projects he is working on.

Select Relevant Experience**Burt Lake Trail, Charlevoix to Boyne City Trail and Crawford Co. Iron Belle Trail, Various Sites, MI**

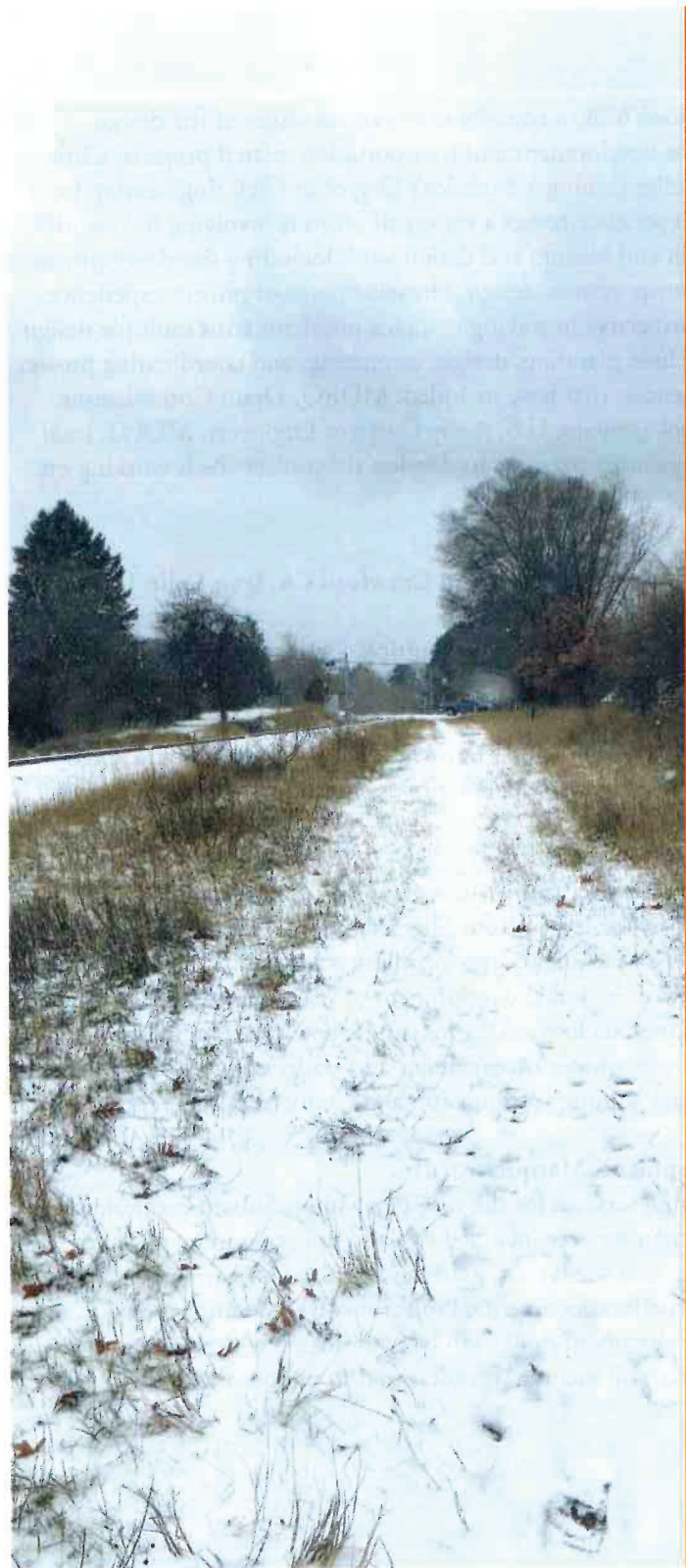
Currently providing planning and design services for multiple local and state non-motorized pedestrian and bicyclist trails throughout northern Michigan. Planning services include working with local communities to develop schematic trail network plans and apply for and obtain grant funding through MDNR and MDOT recreational grant programs. Design services include development of construction documents, specifications, and acquiring necessary permits and easements

Shepler's Mackinac Island Ferry Parking Improvements, Mackinaw City, MI

Currently providing site/civil design services for four Shepler's parking lots and/or maintenance properties throughout Mackinaw City, including a new, 600+ capacity customer parking lot. Design services included development of schematic designs, development of construction documents for parking lot improvements including new and rehabilitated parking lot designs, stormwater management and utility connections, and providing assistance in the Village Planning Commission and Council approval process.

Fox Motors Subaru Site Development, Marquette, MI

Currently providing site/civil design services for the new Fox Motors Subaru car dealership on US-41 in Marquette, MI. Design services included wetland impact studies, wetland mitigation design and permitting, and site layout, grading, stormwater management and utility main extension construction documents. Project involved significant onsite wetland mitigation and stream realignment designs to be coordinated with and permitted by the MDEQ. Upcoming services will include consultation throughout the bidding and construction phases.



Project Description

OHM Advisors is prepared to provide experienced personnel for the design, bidding, inspection and testing services for the Acme Connector Trail – Bunker Hill Road to the Village at Grand Traverse Section listed in the Request for Proposal or any portions/additions thereof. These services will include wetland delineation with permit acquisition, trail design with specifications for trail construction, drainage improvements and restoration, and estimated construction costs.

Scope of Services

The following is a brief outline of our approach to this project. These elements are grouped together to correlate with the proposed schedule and line item costs, to show anticipated effort in each phase.

Design Phase

- OHM Advisors proposes to walk the proposed route with the Township and the designated stakeholders to discuss the existing schematic layout the trail's alignment. OHM Advisors will bring its Wetland Specialist from Mackinaw Environmental on this walk to provide insight into wetland locations and ideal engineering solutions that are affordable and can be permitted by the Michigan Department of Environmental Quality (MDEQ).
- Perform topographical survey along the trail route.
- Reach out to utility companies for exact locations of utilities.
- Supply Acme Township with the necessary maps and easement language for their use to acquire easements once final alignment is set.
- Perform 6 soil borings to 5' in depth spaced throughout the length of the trail and in areas where soil is suspect.
- We will complete preliminary design plans showing the locations of existing site condition and proposed site improvements including signage/kiosk, trail section, grading, proposed drainage and restoration for review and comment.

Understanding of Project

- The preliminary design package with detailed cost estimates will be presented to the Township for input and approval at 50% and 90% completion, and modifications made.
- Submit permit application for SESC permit.
- Submit Wetland Permit.
- Finalize the details and specifications needed.
- Finalize design details and quantities.
- Provide 100% complete final construction documents consisting of plans, specifications and estimate.
- Complete and submit the final plan documents for Township review and approval.
- Assist with the bid opening, review of low bidders, and recommendation of award.
- Attend the Pre-Construction meeting.



Public Engagement

- Attend two engagement meetings at 50%, the first with the designated stakeholders, the second with the public. Feedback from these meetings will be incorporated into the design.
- Attend two engagement meetings at 90%, the first with the designated stakeholders, the second with the public. Feedback from these meetings will be incorporated into the design.

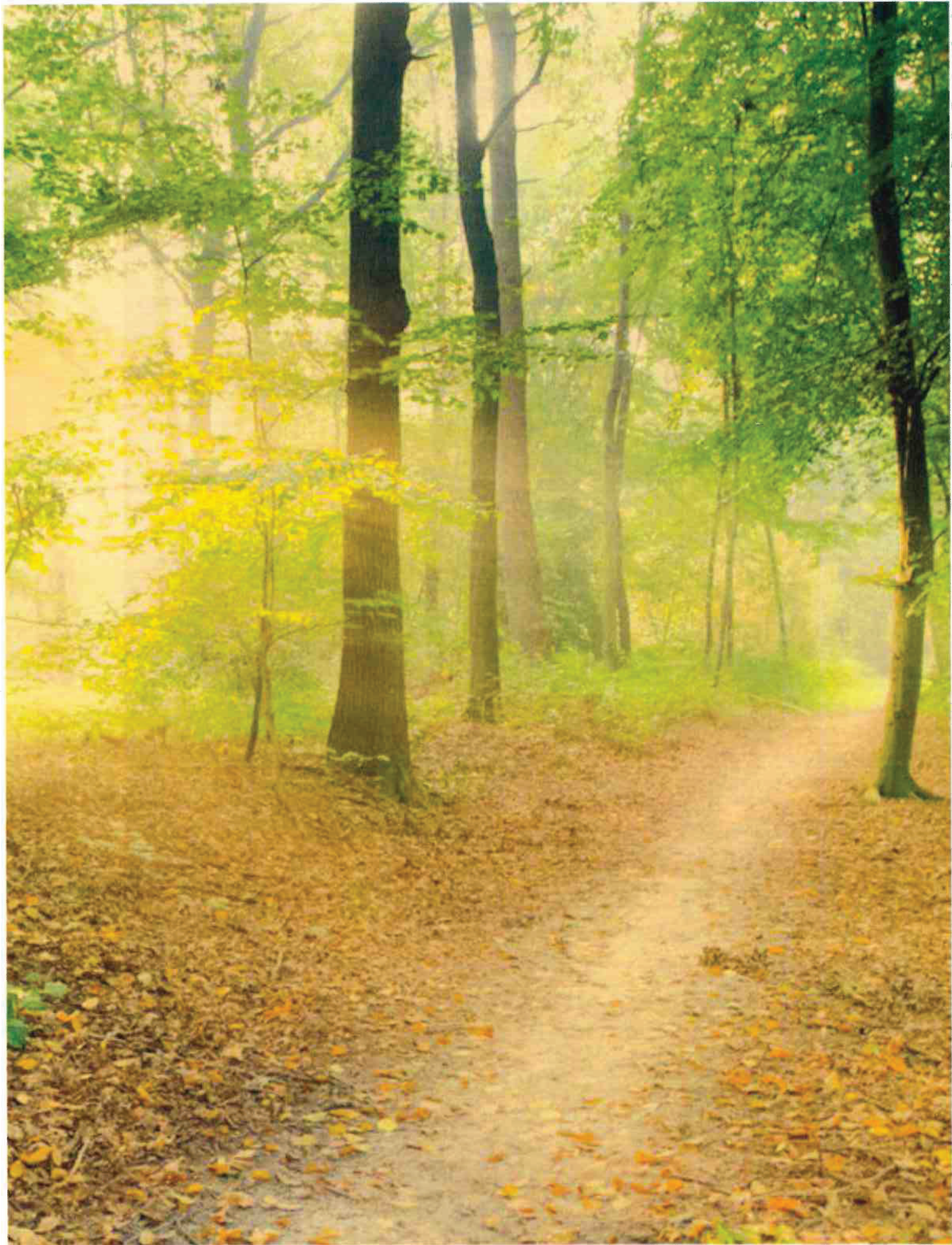
Our team will provide all the necessary visual aids for these meetings and help answer any questions at these meetings.







SIMILAR PROJECT EXPERIENCE



GCPRC – Iron Belle Trail; Gale Rd Section, Construction Engineering Atlas Township, Genesee County, Michigan



OHM Advisors was awarded the design and construction engineering for the Iron Belle Trail: Gale Road Section in Atlas Township for the Genesee County Parks and Recreation Commission, in cooperation with the Genesee County Metropolitan Planning

Commission and the Genesee County Road Commission. This work included building upon the schematic design process performed in 2015 (also by OHM Advisors) and topographical survey, vertical and horizontal trail alignment, boardwalk design, ditch relocations, quantities, engineer's construction estimate, project bid phase, and construction engineering. Wetland delineation and permitting was performed by sub-consultant, Golder Associates.

This project was funded by MDOT Transportation Alternative Program (TAP) for construction and MDNR Trust Fund for design and construction engineering.

STAYED ON SCHEDULE & BUDGET, WITH UNEXPECTED WETLAND CHALLENGES

COMPLETION

2017

CLIENT INFORMATION
Genesee County Parks and Recreation Commission
Barry June,
Deputy Director
5045 Stanley Drive
Flint, MI 48506
810.736.7100 ext 817

COST
CE + Design
\$86,000
Construction
\$658,250

SERVICES PROVIDED
Topographical Survey
Engineering Design
Construction Engineering

PROJECT PERSONNEL
Steven Warren, PE, *Principal In Charge & Project Manager*
Vanessa Warren, ASLA,
LA & Trail Design

WCRC – Dixboro Shared Use Trail

Ann Arbor, Washtenaw County, Michigan

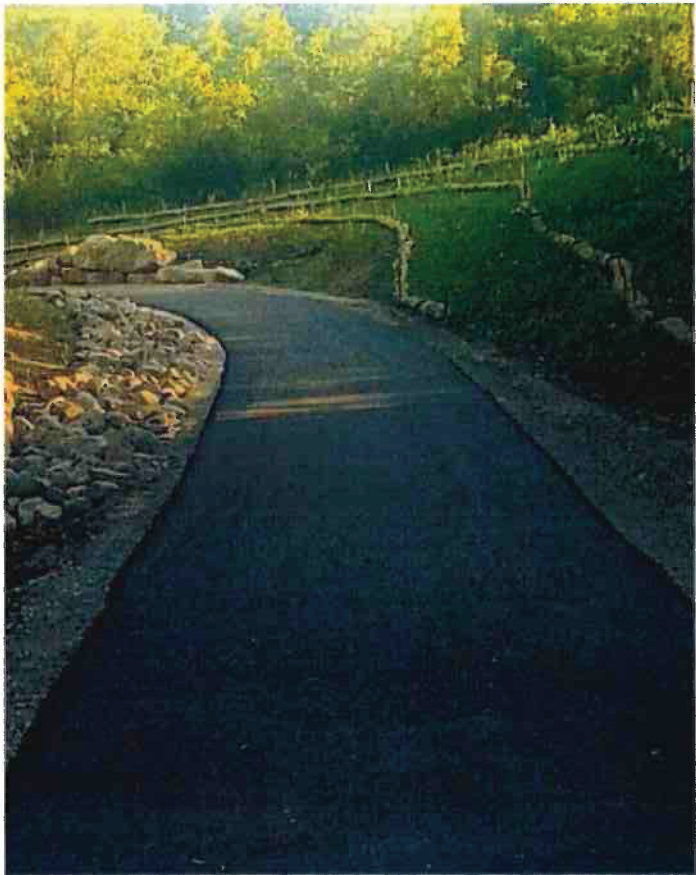
OHM Advisors was contracted by the Washtenaw County Road Commission (WCRC) to complete two miles of shared-use trail construction including clearing and selected tree removals, earth excavation, subgrade undercutting, aggregate base construction, concrete approaches, helical pile installation, open-pile timber boardwalk assembly, hot mix asphalt paving, and site restoration. The work included nearly 500’ of open-pile timber boardwalk over four segments.

This scenic trail provides public access to unique and diverse natural areas within Washtenaw County, extending from Geddes Road to the Matthaei Botanical Gardens in Ann Arbor Township. This trail is regionally significant, as it acts as a non-motorized spur from the Border-to-Border Trail to the Matthaei Botanical Gardens. The trail winds through woods and meadow, and was immediately used by area pedestrians and bicyclists. An easement was granted by the University of Michigan for the trail construction, including properties held by Radrick Farms Golf Course, the U of M Challenge (“Ropes”) Course, and the U of M Matthaei Botanical Gardens.

The proposed path alignment fell within the habitat of the Eastern Massasauga Rattlesnake. Close coordination with U of M Matthaei Botanical Gardens staff was needed to conduct the construction as to limit adverse impacts to this threatened federally protected species. The correct placement, installation, and maintenance of soil erosion and sedimentation control (SESC) devices were of particular importance.

As a Transportation Alternative Program (TAP) funded project, the MDOT Local Agency Program Office requirements along with the MDOT Construction Manual and other standards for testing and record keeping dictated the construction process. Inspector’s Daily Reports (IDR’s) were reviewed and approved. Pay items and quantities were examined, contract modifications were generated, and regular pay estimates were reviewed, approved and processed.

Project stakeholders included MDOT, WCRC, Ann Arbor Township, and U of M.



TWO MILES OF SHARED USE TRAIL WITH VARIED SURFACES

COMPLETION

CE
02.2017 - 12.2017
Construction
03.2017 - 10.2017

CLIENT INFORMATION

Washtenaw County Road Commission
Matthew MacDonell,
Asst. Director of Engineering
555 N. Zeeb Road
Ann Arbor, MI 48103
734.761.1500

COST

CE
\$272,400
Construction
\$1,657,122

SERVICES PROVIDED

Project Management
Construction Engineering MDOT
Policies & Procedures
Multi-Agency Coordination

City of Novi – ITC Community Sports Park Trail

Novi/Oakland County, Michigan



In June 2016, the Southeast Michigan Council of Governments' (SEMCOG) Regional Clearinghouse Review Committee (RC2) selected the City of Novi's ITC Community Sports Park Trail for Transportation Alternative Program (TAP) funding for 2017.

This project will extend the ITC Corridor Regional Pathway to and through ITC Community Sports Park and will connect the existing crosswalk on Eight Mile Road to the recently-completed Phase 1 A of the Regional Trail. The ITC Corridor Regional Trail was identified in the 2011 Non-Motorized Master Plan as a regional north-south corridor in the western portion of the City to connect Maybury State Park and points south in Northville Township with Providence Hospital and eventually Lakeshore Park. The pathway would also eventually connect to the "The Link" Pathway along the north side of Eight Mile that connects with the City of Northville.

COMPLETION

Design
08.2017

Construction
10.2017

COST

Design
\$38,500

Construction
\$287,452.09

CLIENT INFORMATION

City of Novi
Joey Mathias,
Engineer
26300 Lee Begole Drive
Novi, MI 48375
248.735.5648

SERVICES PROVIDED

TAP Grant Application
Pathway Design Services
Wetland Delineation Services
Construction Engineering
Construction Inspection

Orion Township – Clarkston Road Regional Pathway, Phase IA

Orion Township, Michigan



OHM Advisors assisted the Charter Township of Orion in receiving a Michigan DNR Trust Fund Grant for the construction of a regional safety path connection along Clarkston Road. The project is a segment of the Governor’s Iron Belle Trail and is instrumental in connecting the Paint Creek Trail and the Polly Ann Trail systems.

KEY CONNECTOR ON MICHIGAN’S IRON BELLE TRAIL, NEAR ELKHORN LAKE

The project included several unique design challenges including traversing a large wetland. This segment consists of 900’ of 8’ wide paved surface and 1400’ of 10’ wide boardwalk along the shore of Elkhorn Lake. Along the route, multiple outlooks were constructed to allow for enjoyment of the Township’s natural resources. In addition, the route allows pathway users to access Camp Agawam, one of the newest Township park facilities, via a rectangular rapid flashing beacon (RRFB) mid-block crossing at Scout Avenue.

Easements were secured for the construction of the boardwalk and pathway from the adjacent homeowners. Due to the existing terrain, a 200’ retaining wall was required to construct an at grade pathway that met ADA requirements.

This project required support from and coordination with several public entities including the Road Commission for Oakland County (RCOC), Lake Orion Community Schools, Oakland County Parks Department, the Michigan Department of Natural Resources (MDNR), and the Michigan Department of Environmental Quality. In addition, the project continues to close gaps between destination areas such as the Villages of Lake Orion and Clarkston, Orion Township and Oakland County Parks, and the Orion Township Library.

COMPLETION
10.2017

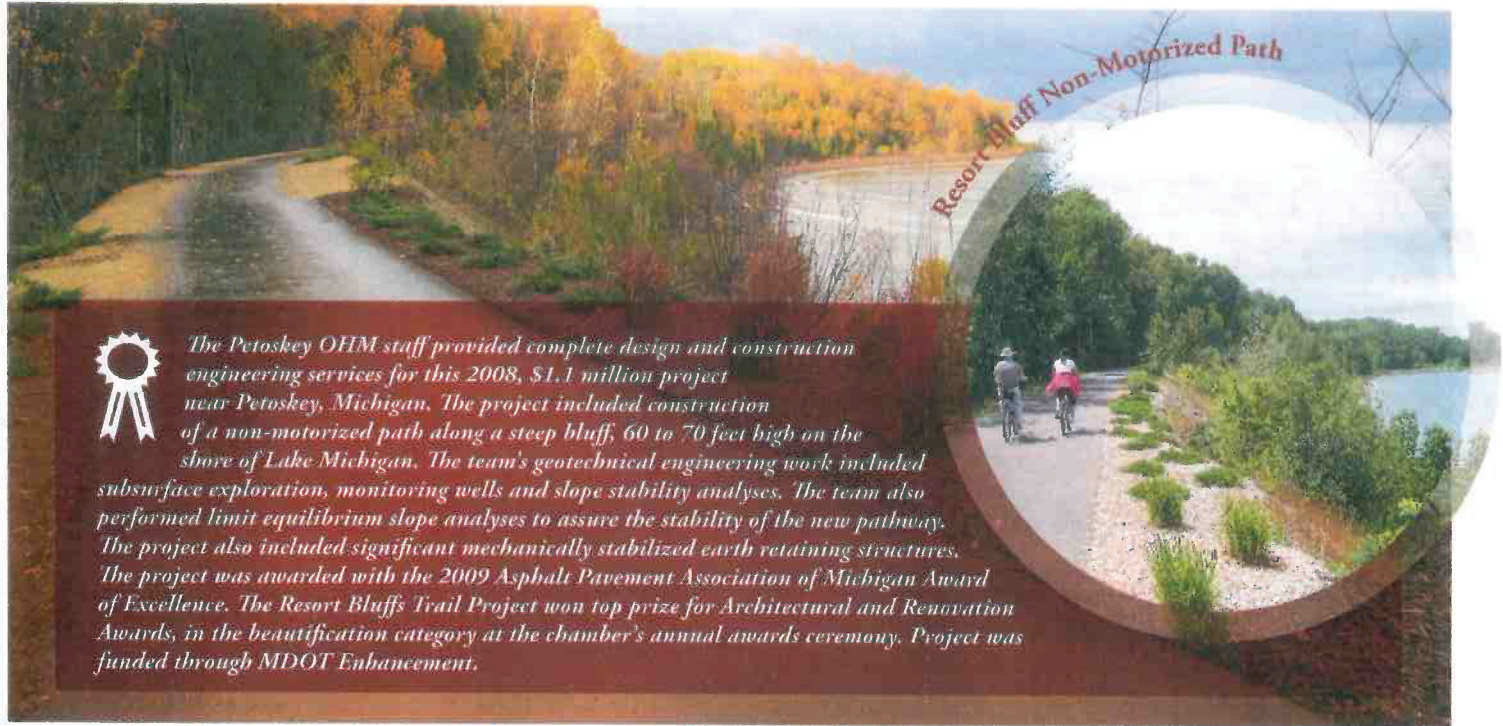
CLIENT INFORMATION
Charter Township of Orion
Jeff Stout
Operations Director
2525 Joslyn Road
Lake Orion, MI 48361
248.391.3777 ext 1002

COST
\$1,018,000

SERVICES PROVIDED
Design
Funding Assistance
ROW Acquisitions
Contract Administration
Construction Engineering
Construction Observation

Resort Bluff Non-Motorized Path

Emmet County, Michigan



The Petoskey OHM staff provided complete design and construction engineering services for this 2008, \$1.1 million project near Petoskey, Michigan. The project included construction of a non-motorized path along a steep bluff, 60 to 70 feet high on the shore of Lake Michigan. The team's geotechnical engineering work included subsurface exploration, monitoring wells and slope stability analyses. The team also performed limit equilibrium slope analyses to assure the stability of the new pathway. The project also included significant mechanically stabilized earth retaining structures. The project was awarded with the 2009 Asphalt Pavement Association of Michigan Award of Excellence. The Resort Bluffs Trail Project won top prize for Architectural and Renovation Awards, in the beautification category at the chamber's annual awards ceremony. Project was funded through MDOT Enhancement.

Boyne City to Charlevoix Shared Use Path

Charlevoix County, Michigan



Boyne City to Charlevoix Trail is a multi-phase project that our team has provided engineering services for since inception. Phase I was a 3.12 mile, \$1.15 million non-motorized path connecting Boyne City to Young State Park. Construction was completed during summer 2016. Our team's services included surveying, geotechnical engineering, geometric, pavement, drainage and landscape design, construction materials testing, and full construction administration. The project used pre-cast retaining walls, boulder walls, and fencing to stay within the

road ROW and protect existing structures and wetlands. The entire project was designed to comply with AASHTO and MDOT standards per grant requirements. Completed summer 2017, Phase II is 3.0 miles, \$1.05 million of paved trail along Boyne City-Charlevoix Road that connects to the Little Traverse Wheelway. Construction of Phase II was completed in summer 2017. Our team is currently providing grant assistance for Phase III, a 2.91 mile non-motorized path along Boyne City-Charlevoix Road. Construction of Phase III is planned for summer 2020. (14 miles total) Project was funded by MDOT Transportation Program (TAP) for construction and MDNR Trust Fund for design and construction engineering.

COMPLETION
2020 (E)

COST
N/A

CLIENT INFORMATION
Charlevoix County
Kiersten Stark,
Planning Coordinator
301 State St.
Charlevoix, MI 49720
231.547.7234

SERVICES PROVIDED
Michael Nachazel, PS
Surveyor

City of Ypsilanti – Border to Border Trail; TAP Grant Improvements Ypsilanti, Michigan



OHM Advisors assisted the City in applying for and administering a TAP Grant to improve the Washtenaw County Border to Border (B2B) Trail within the city limits. The application included constructing a portion of the trail from Michigan Avenue south to the Grove Street bridge over I-94. The project components include a pedestrian crossing of Michigan Avenue with HAWK signal that will connect existing portions of the B2B Trail at Riverside Park and the River's Edge Linear Park, a 10-foot wide non-motorized path along Grove Street from the trailhead 1,000' north of the Spring Street intersection to the Spring Street intersection, pedestrian crossing improvements at the Spring Street intersection, and contra-flow bike lanes along Grove Street from Spring Street to the bridge over I-94.

The budget for the construction costs for this project is \$647,426 with \$517,926 in federal TAP funds and \$129,500 in local match. The local match will include \$50,000 from the City of Ypsilanti, \$47,000 from the Washtenaw County Parks and Recreation Commission, \$10,000 from the Ypsilanti Downtown Development Authority, \$10,000 from the Ypsilanti Convention and Visitors' Bureau, \$10,000 from Wolfpack, and \$2,500 from the Huron River Watershed Coalition.

TRAIL EXTENSION WITH SIGNAL UPGRADES FOR IMPROVED PEDESTRIAN SAFETY

COMPLETION

Design
2015

Construction
2016

CLIENT INFORMATION

City of Ypsilanti
Stan Kirton,
Director, Public Services
One South Huron Street
Ypsilanti, MI 48197
734.483.1421

COST

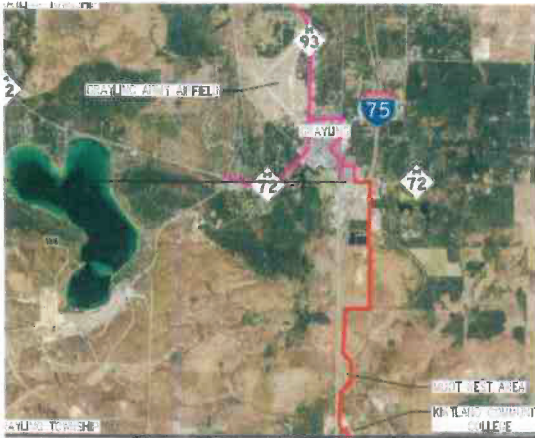
Design
\$24,000

Construction
\$450,000 (Estimated)

SERVICES PROVIDED

Funding Assistance
Signal Design
Bike Lanes
Non-Motorized Pathways
Multi-Agency Coordination

SIMILAR PROJECT EXPERIENCE



Iron Belle Trail Grayling Township, Michigan

The Iron-Belle Trail, the Governor's Showcase Trail, runs from Belle Isle, Michigan north to the Depot Park Trailhead located in Ironwood, Michigan. Our team is currently providing grant phase assistance and preliminary engineering for Phase III of the Iron Belle Trail, through Grayling Township. The trail segment begins at Kirtland Community College and ends at Brink Street in the City of Grayling. Design development plan to begin summer 2018. (4.5 Miles) Project was funded by MDOT Transportation Program (TAP) for construction and MDNR Trust Fund for design and construction engineering.

Completion 2019 (E) **Cost** \$1,704,000 (E) **Contact** Crawford CRC: Donald Babcock, *Managing Director* t 989.348.2281
Project Personnel Michael Nachazel, PS, *Surveyor*



Boyne Valley Non-Motorized Trailway Boyne City to Boyne Falls, Michigan

The Boyne Valley Non-Motorized Trailway is a proposed trail in Charlevoix County. Our team is currently providing design services for Phase I of the project and engineering design of Phase II of the trail will begin summer 2018. When completed, the trailway will connect the City of Boyne City with the Village of Boyne Falls with a 10-foot wide trail, largely utilizing existing railroad grade. Construction costs for the trail are expected to be approximately \$1,500,000. (7.1 Miles) Project was funded by MDOT Transportation Program (TAP) for construction and MDNR Trust Fund for design and construction engineering.

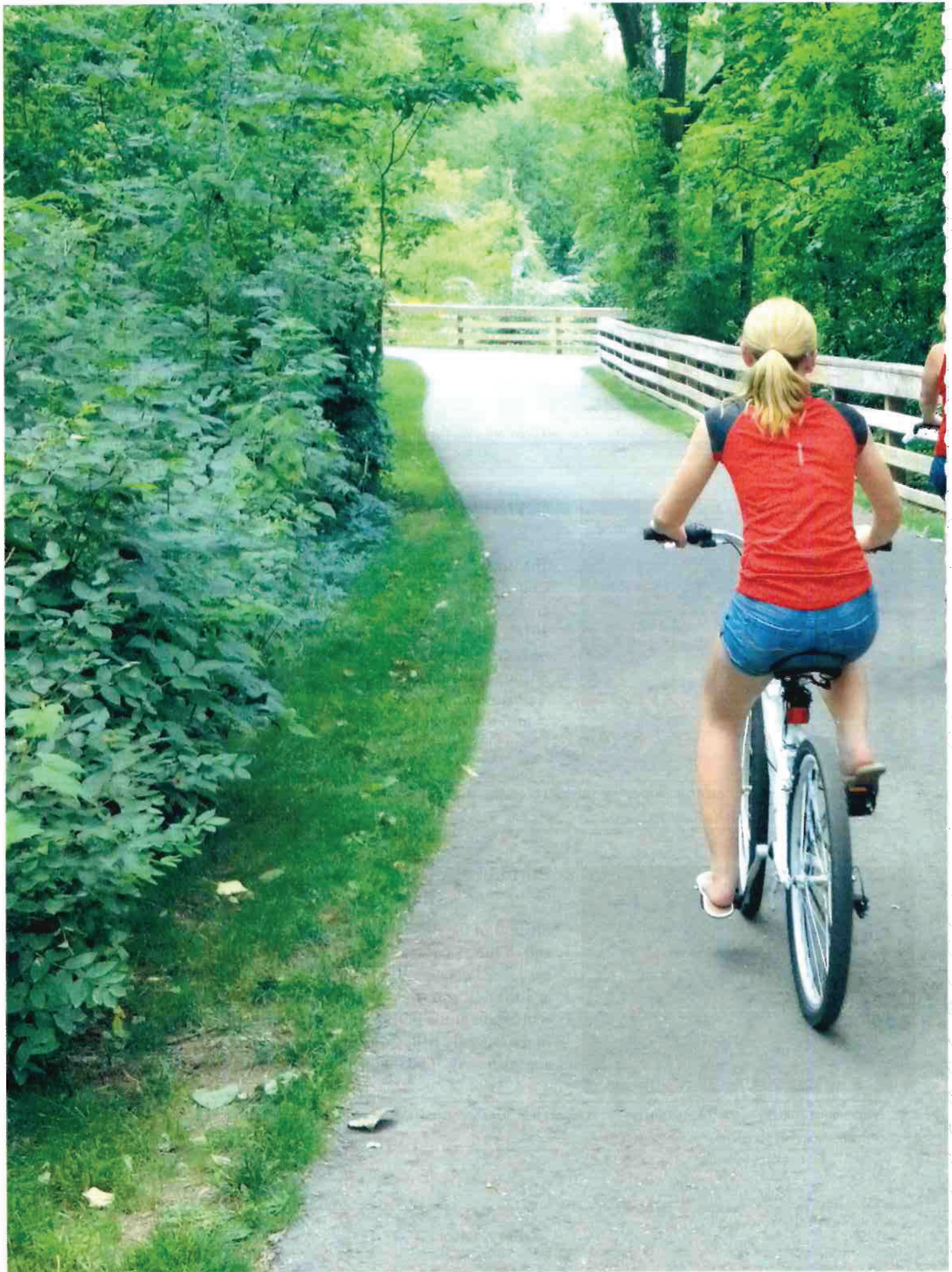
Completion 2019 (E) **Cost** \$1,610,000 (E) **Contact** Boyne City & Boyne Valley Township: Sue Hobbs, *Supervisor* t 231.525.3130
Project Personnel Michael Nachazel, PS, *Surveyor*

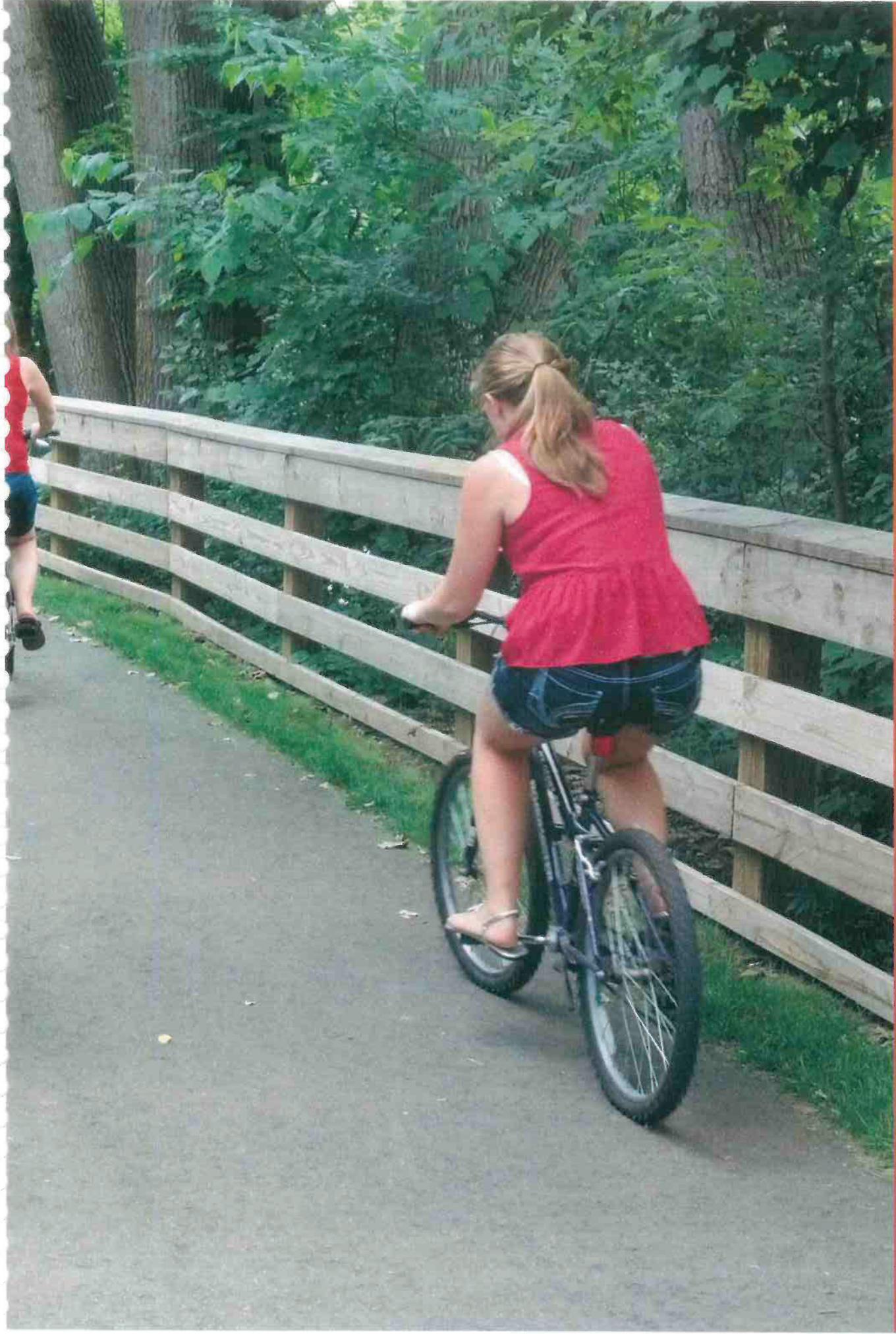


Burt Lake Trail Burt Township, Michigan

Phase II of the Burt Lake Trail is a proposed segment of trail at the north end of Burt Lake, along Riggsville Road in Cheboygan County. Our team has helped obtain a conditional commitment from MDOT TAP as well as a MDNR trust fund grant to begin design of the trail segment. The trail begins at the POE of Phase I. Construction is anticipated to begin in the late fall 2018. Construction costs for the trail are expected to be approximately \$650,000. (18 Miles)

Completion 2018 (E) **Cost** \$650,000 (E) **Contact** Burt Township: Gene Hodulik t 231.238.9500
Project Personnel Michael Nachazel, PS, *Surveyor*





CONSTRUCTION COST CONTROL AND SCHEDULING

Approach & Methodology

Cost Control

OHM Advisors will provide cost control during design and construction by utilizing proven project management methods and procedures. The following highlights some of the cost control benefits that OHM will bring to this project:

Thorough Construction Documents: The OHM team is proud of our reputation for producing plans and specifications that stand out in terms of constructability, with construction quantities that are realistic and accurate. This minimizes construction issues and cost overruns during construction.

Accurate Cost Estimates: We are proud of our track record of providing comprehensive and accurate cost estimates, normally within 5% of actual construction. We will track the budget throughout the design process, so scope adjustments can be made if necessary.

Constructability Reviews: OHM follows Quality Control / Quality Assurance (QC/QA) procedures that include constructability reviews by our construction engineering staff. Their perspective proves valuable in avoiding claims and other issues during the construction phase of the project.

Flexible Scope: OHM Advisors has the ability to tailor our design to meet a set construction budget. We appreciate the importance of this once grants and a funding plan are in place. OHM will identify areas where a range of scope is possible and will advise the Stakeholder Group.

Design Innovations: OHM staff has the level of experience and resources required to develop design innovations that can substantially benefit the project by minimizing construction costs. Often the subtle details make a big difference.

Scheduling

OHM's Project Manager will meet the project scheduling needs by providing clear lines of communication and careful organization. Tasks will be set out; clear direction will be provided for all work by subconsultants or by disciplines within our firm; and timely completions will be required, allowing time for QC/QA. Our Project Manager will be in responsible charge of all work completed and will ensure a very high level of quality. Staff will be assigned on a full time / top priority basis, as needed to meet the project schedule. OHM's staff has earned a reputation for being hardworking, precise, practical and responsive to client needs.



Long-Term Maintenance

Management and maintenance of trails require careful planning and collaboration. Partnerships should be established and maintenance agreements will be required by the granting agencies. We will provide an asset management plan that lays out the anticipated maintenance requirements for the different facility types, organized by routine (vegetation management, litter control, etc.), periodic (aggregate, crack sealing, striping, clearing, inspections, etc.) and long term (5-30 year major repairs). OHM's staff have been designing trails for over twenty years and are increasingly involved in maintenance and rehabilitation efforts, giving us the experience needed to anticipate maintenance issues and work to minimize them with the design. It is important, and far easier, to make grant funded investments with the initial construction that minimize future maintenance costs, rather than positioning a local agency to deal with it in the future.

The following are considerations that can reduce future maintenance costs:

Root Control: The most common major problem with paved trails that we have seen in northern Michigan is root damage.

We are experienced at identifying vegetation types that commonly cause these problems and have strategies in place for dealing with them.

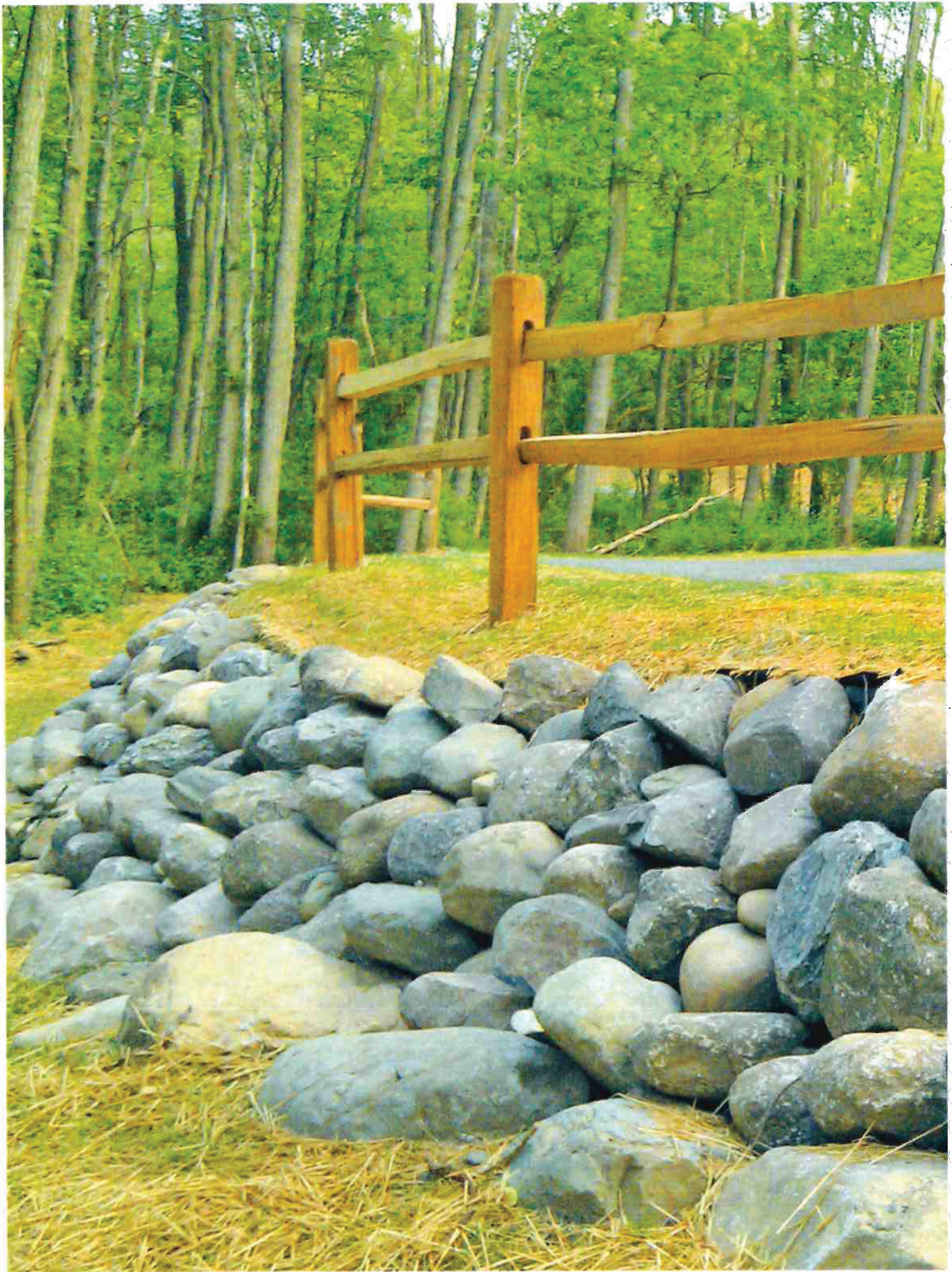
Boardwalks & Other Structures (if added to scope):

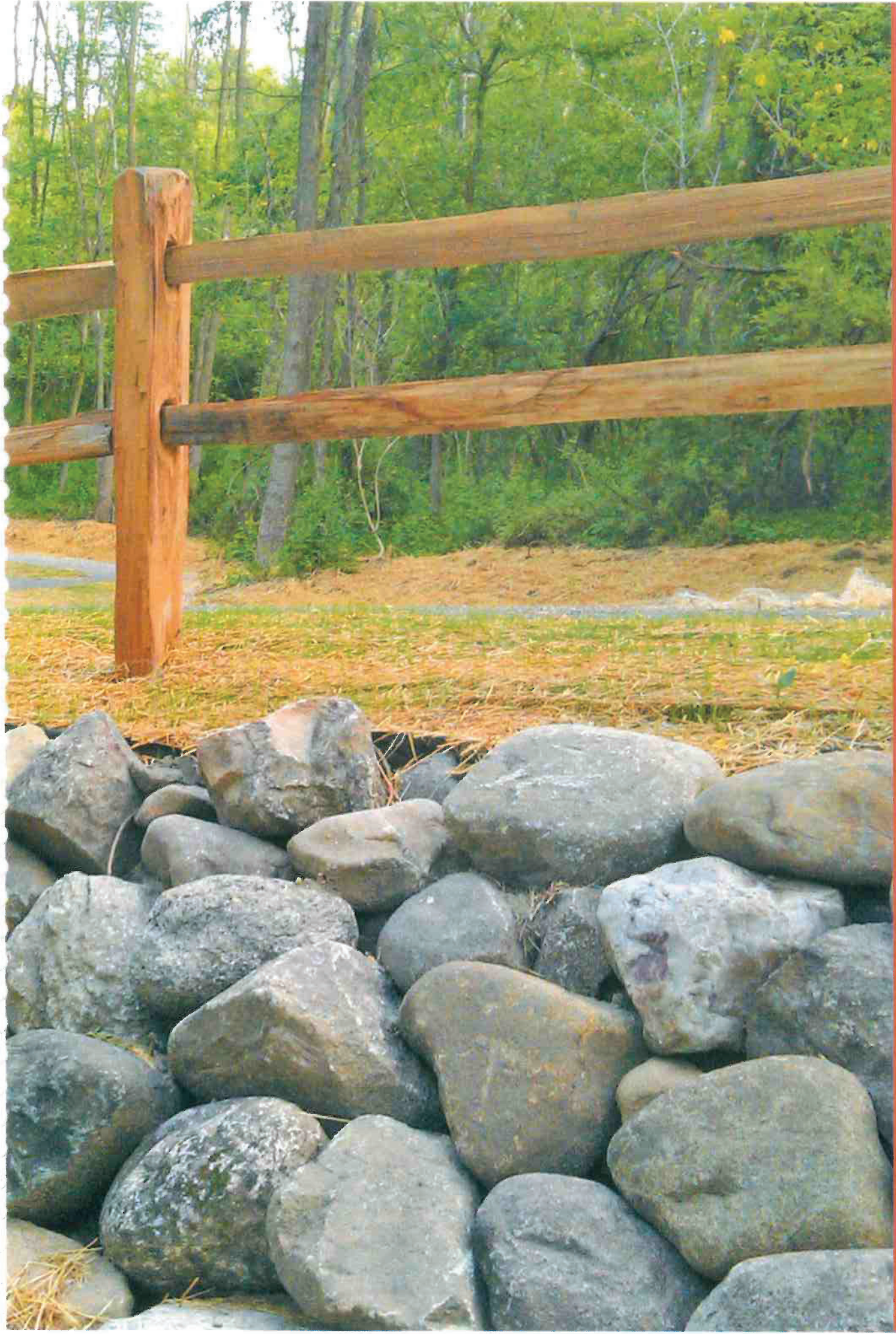
Material selection is key consideration for minimizing future maintenance needs of structures. Composite timber decking vs conventional treated Southern Pine, concrete or weathering steel vs painted steel, fastener material types, railing material and type, and erosion protections are examples of important considerations related to maintenance.

Pavement Design: The type of pavement and the pavement structure (sand, gravel and Hot Mix Asphalt (HMA) or concrete thicknesses) will greatly affect the life of the trail and the future maintenance costs.

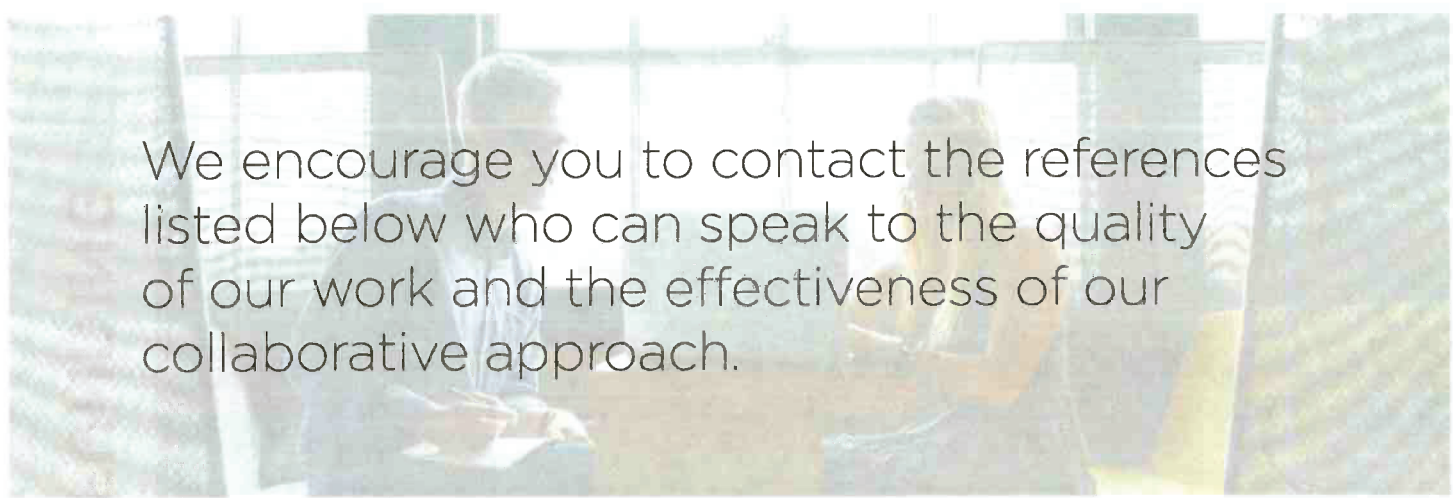
Erosion Control: Erosion is a common maintenance problem that can be largely avoided with a careful design. Permanent erosion controls will be selected to deal with problem areas with the initial project.







EXPERIENCE WITH STATE / FEDERAL FUNDING

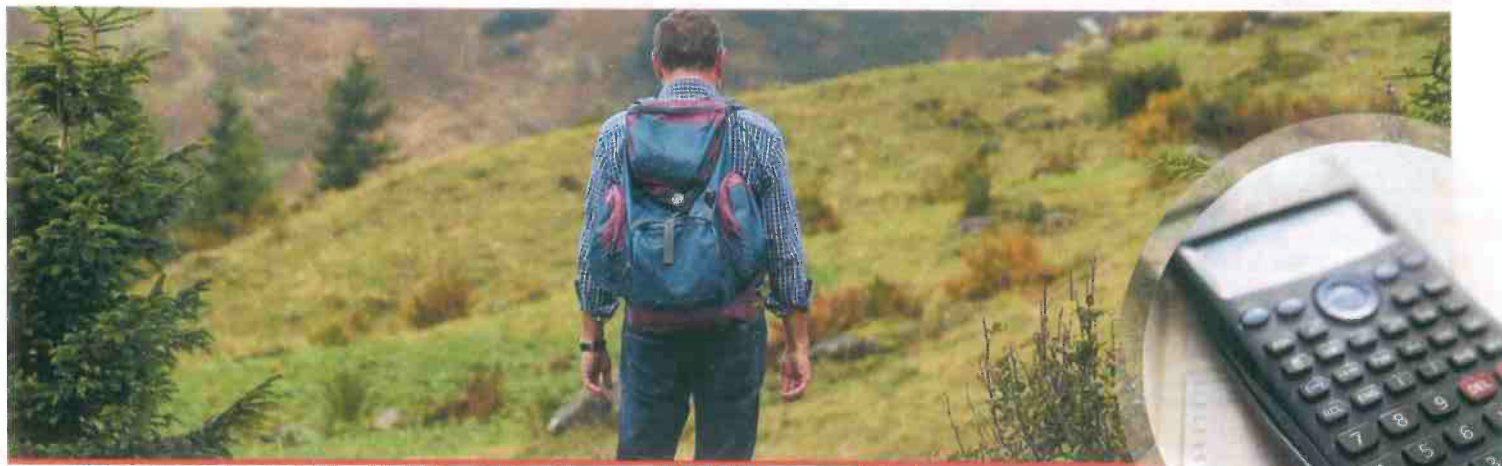


We encourage you to contact the references listed below who can speak to the quality of our work and the effectiveness of our collaborative approach.

We Put People First

For us, Advancing Communities is the driving force behind our creativity and breakthrough thinking. Every client relationship is tailor-made, and every solution is site-specific. Our view of success is creating places that capture the vision and aspirations of the community. It's doing the right thing for our clients, and innovating for solutions that allow all of us to make an impact for the greater good.

Client	Client Contact	Contact Information
Grand Traverse County Road Commission	Wayne Schoonorer <i>County Highway Eng.</i>	1881 Lafranier Road, Traverse City, MI 49696 t 231.922.4848
Top of Michigan Trails Council (TOMTC)	Jeff Winegard <i>Executive Director</i>	1687 M-119, Petoskey, MI 49770 t 231.348.8280
TART Trails, Inc.	Julie Clark <i>Executive Director</i>	P.O. Box 252, Traverse City, MI 49685 t 231.941.4300
Boyne Valley Trailway Team Boyne City Parks & Recreation Com.	Michael Sheean <i>Commission Chair</i>	319 North Lake Street, Boyne City, MI 49712 t 231.675.1580
Charlevoix County Road Commission	Patrick Harmon <i>Manager</i>	1251 Boyne Avenue, Boyne City, MI 49712 t 231.582.7330
Networks Northwest	Elizabeth Calcutt <i>Community Planner</i>	PO Box 506, Traverse City, MI 49685-0506 t 231.582.7330
City of Petoskey	Mike Robbins <i>DPW Director</i>	101 East Lake Street, Petoskey, MI 49770 t 231.347.2500



Our Funding Experience

We know the importance of obtaining grants and alternative funding for communities. OHM Advisors has a team that fully understands all of the funding opportunities and methods available to communities in every market we serve. We can assist you with selecting the appropriate programs for your projects and preparing all of the necessary applications and background materials.

Water & Sewer

- Revolving Loan Programs
- MDEQ S2 Grant Program
- USDA Rural Development
- Community Development Block Grants (CDBG)

Transportation

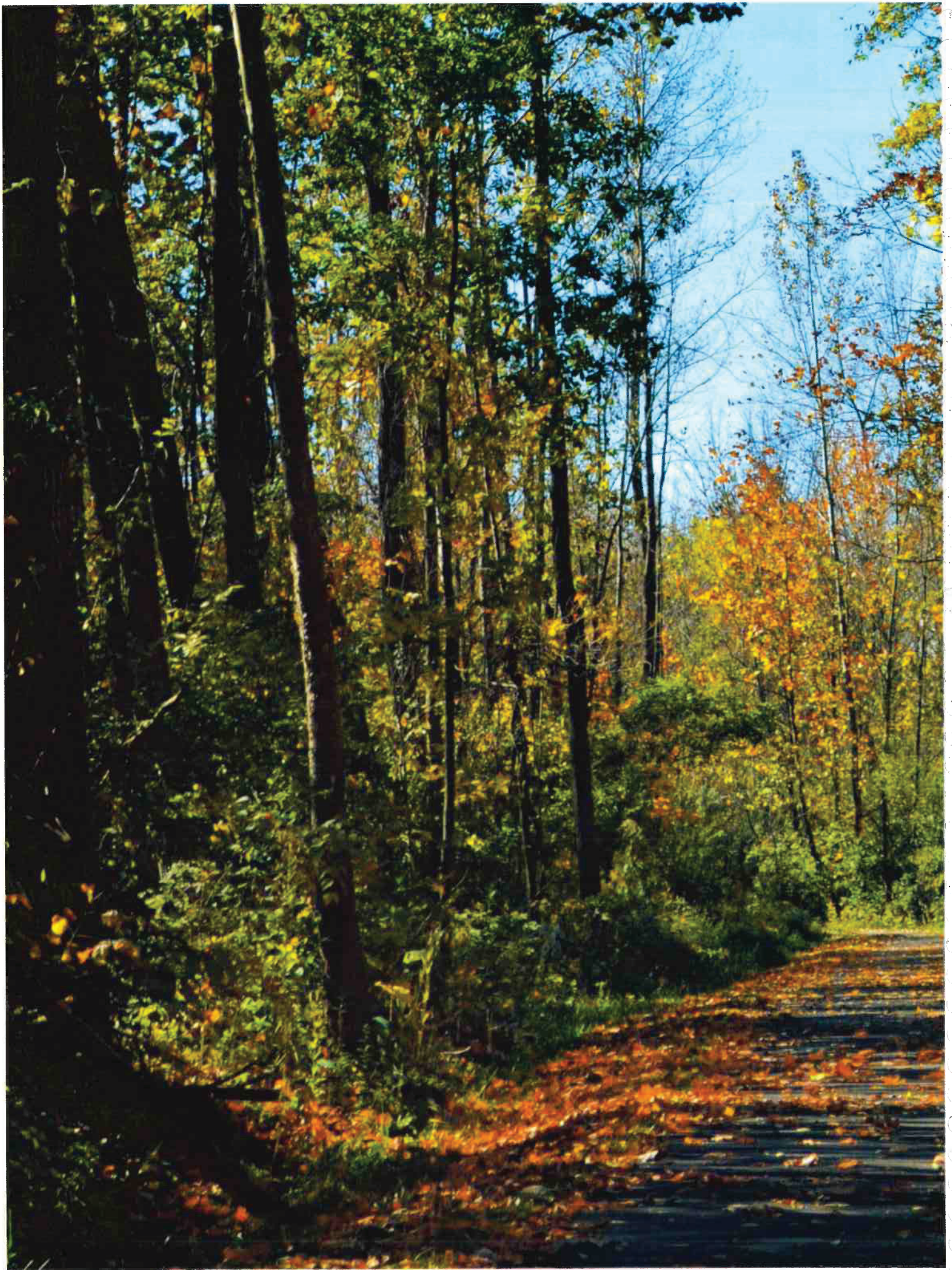
- Transportation Alternatives Program (TAP)
- Surface Transportation Program (STP)
- Congestion, Mitigation & Air Quality (CMAQ)
- Transportation Economic Dev. Fund (TEDF)
- Special Assessment Districts
- Local Transportation Improvement Program

Stormwater & Recreation

- Rouge River National Wet Weather Demonstration Project
- Clean Michigan Initiative (CMI) & Section 319
- EPA Great Lakes Restoration Initiative (GLRI)
- Revolving Loan Programs
- MDNR Parks and Recreation
- MDEQ Coastal Management Program
- Natureworks
- Recreational Trails Fund
- Land & Water Conservation Fund

Non-Motorized Trail Grants Awarded Over the Past Three Years

Type of Grant	Amount Awarded
MDOT Transportation Alternatives Program (TAP)	\$5,050,000
MDOT Safe Routes to School Program (SRTS)	\$200,000
MDOT Safety Enhancement Program (HRRR)	\$1,200,000
MDOT Priority Road Improvement Program (PRIP)	\$2,950,000
MDOT Congestion Mitigation & Air Quality Improvement Program (CMAQ)	\$1,800,000
Community Development Block Grants (CDBG)	\$100,000
MDNR Trust Fund	\$4,500,000



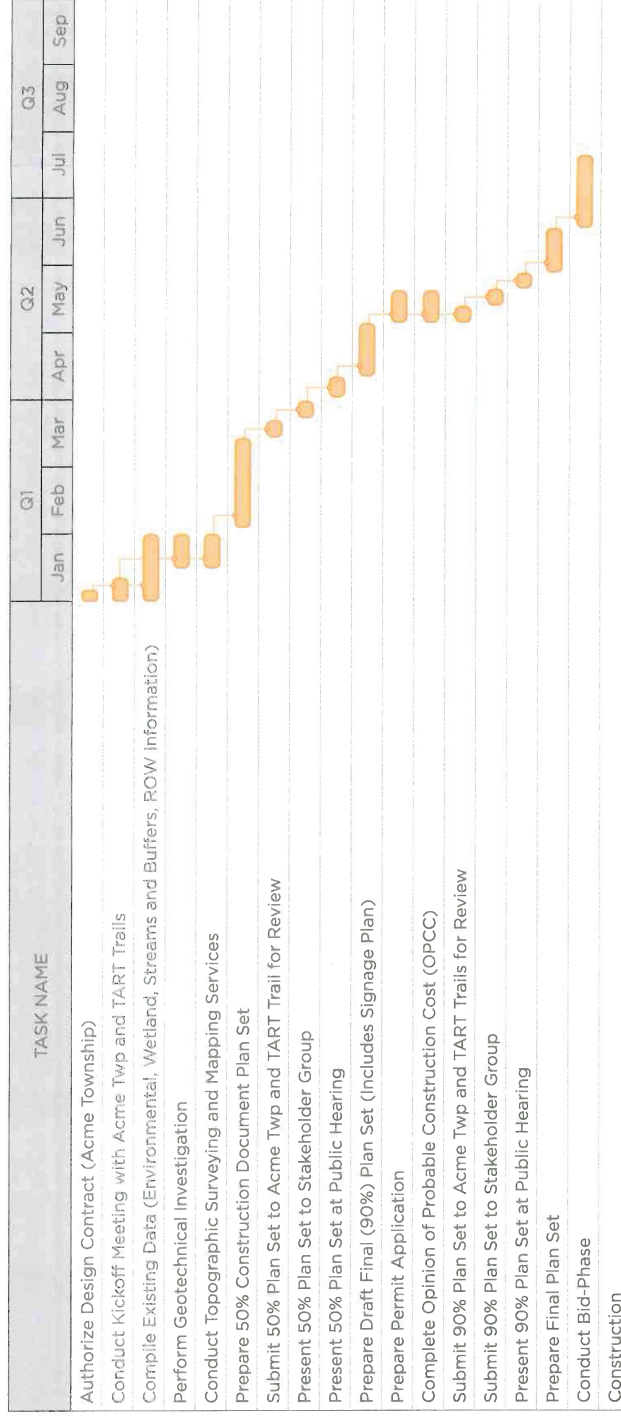


LINE ITEM COSTS & TIMELINE



■ Geotechnical Services	\$2,200
■ Topographic Surveying and Mapping Services	\$5,400
■ Public Input and Coordination (Includes 2 public hearings and 2 stakeholder meetings)	\$8,000
■ Design Development Phase Services (Includes obtaining all necessary permits)	\$16,000
■ Construction Document Phase Services	\$7,000
■ Bidding and Award Phase Services	\$1,200





ACME TOWNSHIP



TRAIL DESIGN ENGINEERING & CONSTRUCTION DOCUMENT SERVICES FOR ACME CONNECTOR TRAIL

DECEMBER 13, 2018





Wade Trim, Inc.

10850 East Traverse Highway, Suite 2260 • Traverse City, MI 49684
231.947.7400 • www.wadetrim.com

December 13, 2018

Mr. Shawn Winter, Planning & Zoning Administrator
Acme Township Hall
6042 Acme Road
Williamsburg, MI 49690

Re: Proposal to Provide Trail Design Engineering & Construction Document Services
for Acme Connector Trail

Dear Mr. Winter:

Congratulations on moving forward with the design engineering and construction for the Acme Connector Trail, a key link providing connections to a wealth of community assets. We appreciate the opportunity to submit this proposal and are well prepared to provide high quality landscape architectural and engineering services to this project in a timely manner.

Wade Trim brings a 92-year history working with municipalities and regional agencies to deliver community planning and infrastructure solutions. We are familiar with the public and stakeholder involvement required for this project, as evident with our past work with TART Trails and Garfield Township on the earlier Buffalo Ridge Trail. We have a comprehensive understanding of the project site and challenges presented by the slopes, wetlands and other natural features. Scot Lautzenheiser, PLA, our proposed Project Manager, led design engineering, construction, and signage development for the Buffalo Ridge Trail project and is energized by the opportunity to lead this effort for this 1.2-mile trail. To complement Wade Trim's expertise, we have selected King & MacGregor Environmental to provide wetland delineation, Soils and Structures to conduct the geotechnical investigations, and Image360 to provide graphical support and signage expertise.

We look forward to the opportunity to discuss our proposal and qualifications with you. Please contact us if you have questions or need additional information.

Very truly yours,

Wade Trim, Inc.


Scot Lautzenheiser, PLA
Project Manager



Brian Sousa, PE
Vice President

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Section 1



FIRM INFORMATION & PROJECT TEAM

1.1 FIRM INFORMATION

A multi-discipline, national consulting firm headquartered in Detroit, Wade Trim employs over 500 people in 20 offices, in 10 states. Our firm offers: landscape architecture and urban design, urban and strategic planning, zoning, civil and traffic engineering, GIS services, environmental sciences, construction and program administration, municipal operations, building inspection and plan review services, and project funding assistance. Services for this project will be coordinated from Wade Trim's Traverse City office:

Wade Trim
10850 East Traverse Highway
Suite 260
Traverse City, MI 49684
231.947.7400
833.837.0723 fax

1.2 PROJECT TEAM

We have assembled professional team that will work cohesively with Acme township to complete the Acme Connector Trail project on time and within budget. Exhibit 1 shows our team organizational chart. Exhibit 2 shows our team's hourly rates.



Scot Lautzenheiser, PLA, is a Landscape Architect with a diverse background in public and private sector projects including site and trail design. Scot has over a decade of solid experience in parks and recreation, site planning, trail and bikeway planning, residential, commercial and

higher education planning and design, and storm water system design and construction. He has strong technical skills to complement his creative and artistic background allowing him to integrate design issues, client desires, and technical and budget constraints into innovative solutions under tight time constraints. He worked on the Buffalo Ridge Trail as Project Manager and Lead Designer, which gives him the advantage of area familiarity with comparable projects. Scot will be serving as project manager, overseeing the key personnel providing design, surveying, and geotechnical services.



Brian C. Sousa, PE, Principal-in-Charge, is a Vice President and Manager of Wade Trim's Traverse City and Gaylord offices. Brian is well-versed in the issues related to these types of projects and will provide the leadership required to effectively manage a team of specialists. Brian

has overseen numerous trail design and engineering projects. He specializes in Municipal Engineering projects from planning through funding, design, construction and closeout. This background will allow him to effectively make sure this multi-disciplinary team meets the project needs.



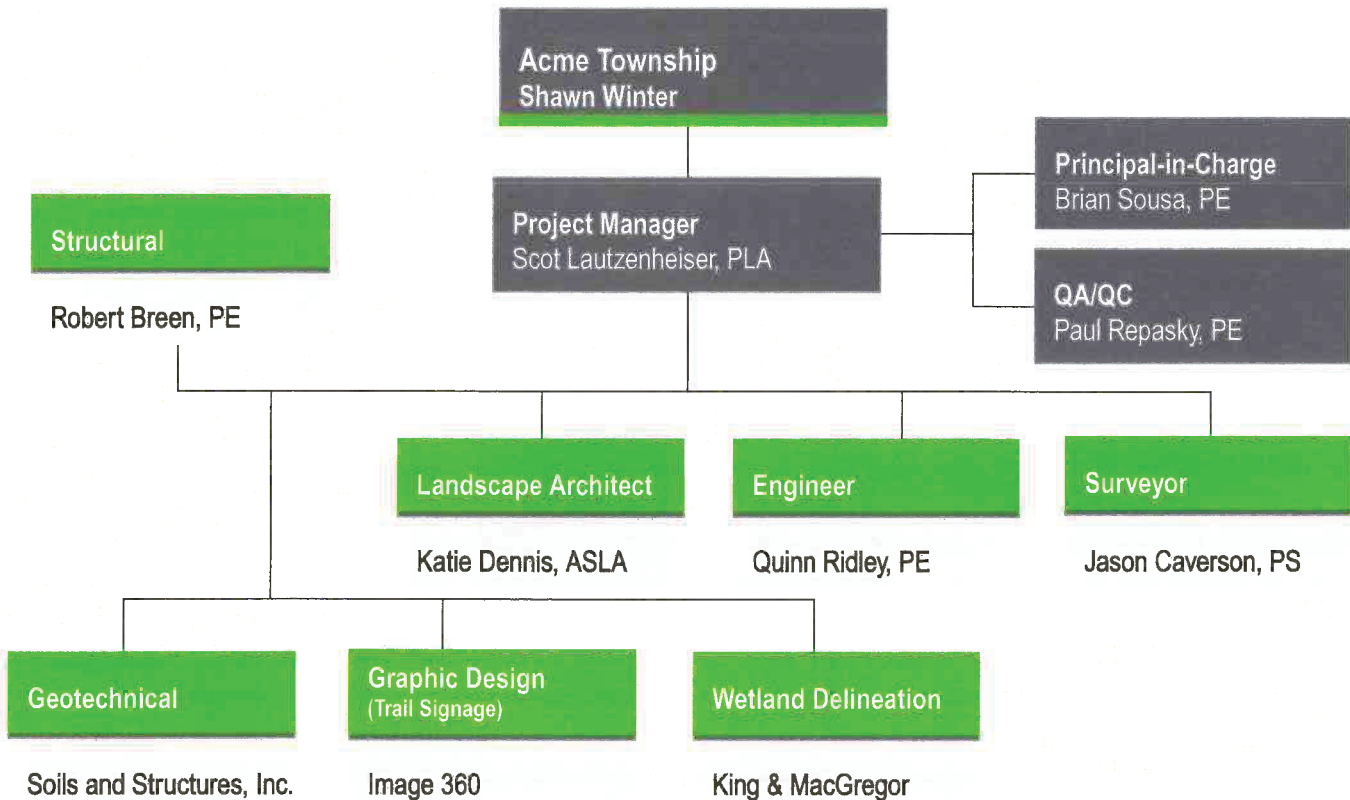
Paul M. Repasky, PE, will provide QA/QC services. His experience includes more than 28 years of design, project management, and construction engineering throughout northern Michigan. Projects that he has managed include streetscapes, non-motorized trails, site plans,

roadways and bridges, and various infrastructure improvements. Paul is involved in engineering projects from planning, schematic design, preparation of technical specification and contract documents, bidding assistance, and construction engineering and administration.



Quinn Ridley, PE has served as a design engineer for projects including non-motorized trails, site plans, roadways, seawalls and retaining walls, and parks. He has experience with many aspects of civil engineering projects including conceptual

Exhibit 1 Organizational Chart



design, grant application, design engineering, and bidding assistance. Quinn also has a background in geotechnical engineering, including foundation analysis, slope stability, and subsurface investigation.



Bob Breen, PE, has over 40 years of bridge and structural design experience with counties, municipalities, MDOT and the private sector. Bob designs pedestrian bridges ranging from 60 feet to over 270 feet long, boardwalks, observation and fishing platforms as well as multi-span, highway/pedestrian bridges. His projects with Scot include the Buffalo Ridge Trail, Mackinac Island State Park Spring Trail, Crego Park Development, and Williams Nature Park Planning and Design. He also designed a 60-foot-long, timber truss, pedestrian bridge and 630 lineal feet of boardwalk over the Kearsley Creek and adjacent wetlands for Davison Township Williams Park.



Katie Dennis, ASLA, is a landscape architect with experience in site planning and design, visual communication and renderings, and research analysis. She is experienced in master planning, land development regulations, grant writing, and public involvement facilitation. Katie specializes in sustainable and ecological design and is also proficient in the Adobe Creative Suite, Trimble Sketchup, ArcGIS and ESRI, and AutoCAD software applications.



Jason Caverson, PS, is a Professional Surveyor with 24 years of experience. His experience includes GPS static and RTK control and digital leveling surveys, road design surveys, subdivision and site condominium layouts, water system projects, industrial park development, surveying for oil and gas well projects, mortgage reports, boundary surveys, construction staking, and topographic surveying. He is proficient with Trimble Geomatics Office, AutoCAD, Plus II, Softdesk, CAICE, various Microsoft applications and

other computer software, which is used routinely for estimating, correspondence, computations and drawing production.

1.3 SUBCONSULTANTS

King & MacGregor

King & MacGregor will provide wetland delineation and related permitting assistance. KME, an environmental consulting firm, assists clients with wetlands, streams, lakes, woodlands, sand dunes and regulation of threatened/endangered species. From terrestrial and aquatic resource evaluations to impact assessments, permit assistance and mitigation plans, KME provides responsive, high-quality assistance in obtaining federal, state and local environmental approvals.

Matt MacGregor has led numerous diverse ecological assessment projects throughout the Great Lakes Region and is experienced in wetland and waterfront regulatory issues and permitting. He is a former district supervisor for the MDEQ Land and Water Management Division where he was responsible for wetland and waterfront regulatory programs in the Grand Rapids district.

Soils and Structures, Inc.

Soils & Structures, Inc. is a Michigan based engineering consulting firm specializing in geotechnical and structural engineering, construction material testing, and geotechnical drilling. The company has three offices with over fifty staff professionals that include geotechnical and structural engineers that specialize in geotechnical investigation and report, test boring & dutch cone

penetration tests, geophysical surveys, and laboratory tests.

David Hohmeyer, PE, is a geotechnical Principle Engineer with nearly 40 years of experience. He specializes in geotechnical engineering, pile design, construction inspection, and project administration. His project experience includes geotechnical engineering and design work for Cheboygan Armory, Lincoln Avenue Bridge over Cheboygan River, Boyne City Hall, and Detour State Mooring Facility.

Image 360

Image 360 will provide graphic design and trail signage services. Image 360 is locally based in Traverse City, MI, and has experience providing signage design, production, and installation for trail projects similar in scope and size including TART Trails Leelanau, Traverse City, Buffalo Ridge and Acme Township Wayfinding projects.

1.4 FIRM WORKLOAD

Wade Trim has the capacity to see this project through to its completion. We will devote the necessary resources to complete the design development and construction document phases in a time frame that aligns with the Township's schedule. With the close proximity of the project to our office, we will be well-suited to participate in stakeholder and public meetings, readily available to address concerns as needed during construction, and will also be able to devote the necessary level of construction oversight. We anticipate the design timeline as we have outlined in Section 6 of this document to be easily attainable within our current workload.

Exhibit 2 Project Team Hourly Rates

NAME	ROLE	HOURLY RATE	REGISTRATION
Scot Lautzenheiser, PLA	Project Manager	\$115.63	Professional Landscape Architect, MI
Brian Sousa, PE	Principle-in-Charge	\$182.59	Professional Engineer, MI
Paul Repasky, PE	QA/QC	\$172.67	Professional Engineer, MI
Jason Caverson, PS	Professional Surveyor	\$127.10	Professional Surveyor, MI
Quinn Ridley, PE	Civil Engineer	\$109.18	Professional Engineer, MI
Catherine Dennis, ASLA	Landscape Architect	\$74.40	American Society of Landscape Architects
Robert Breen, PE	Structural Engineer	\$184.88	Professional Engineer
Matt MacGregor	Wetland Delineation	\$130.00	Wetland Delineation Certification, US Army Corps of Engineers
Image 360	Graphic Design	\$80.00	
David Hohmeyer, PE	Geotechnical	\$100.00	Professional Engineer, MI

Section 2



have the ability and experience, backed by a deep resource pool, to develop sound preliminary plans for this trail. We provide the best value because we combine creative enthusiasm, technical assuredness, and complete professional services in one cohesive team.

SIMILAR PROJECT EXPERIENCE

The project examples listed in Exhibit 3 and described in the following pages, are indicative of Wade Trim's ability to develop comprehensive solutions to challenging, complex sites. These projects were completed within the last five years. The ability to successfully address the challenges presented in these projects was drawn from multiple work experiences. In turn, we will draw upon these and many other projects as resources for solving the challenges posed by the Acme Connector Trail. We are best suited for this project because we

Exhibit 3 Representative Project Experience

PROJECT NAME AND REFERENCE	YEAR COMPLETED	KEY STAFF
Buffalo Ridge Trail	2016	Scot Lautzenheiser, Jason Caveron, Brian Sousa, Paul Repasky, Bob Breen, Katie Dennis
Mackinac Island State Park Spring Trail	2014	Scot Lautzenheiser, Bob Breen
Crego Park Development	2014	Scot Lautzenheiser, Bob Breen
Williams Nature Park Planning and Design	2016	Scot Lautzenheiser, Bob Breen
Chevy Commons Iron Belle Trail	2018	Scot Lautzenheiser, Bob Breen, Katie, Dennis

CLIENT:

Charter Township of Garfield, TART Trails

PROPOSED TEAM MEMBERS:

Scot Lautzenheiser, PLA
Brian Sousa, PE
Jason Caverson, PS
Katie Dennis, ASLA
Bob Breen, PE
Paul Repasky, PE

CLIENT CONTACT:

Rob Larrea, Planning Director, 231.941.1620; Julie Clark, TART Trails Executive Director, 231.941.4300

YEAR COMPLETED: 2016

FUNDING:

MDNR Trust Funds

RELEVANCE TO ACME TRAIL

- > Design, topographic survey, wetland delineation, geotechnical investigation
- > Public stakeholder involvement
- > Trail design through sensitive environment including wetlands and over creek

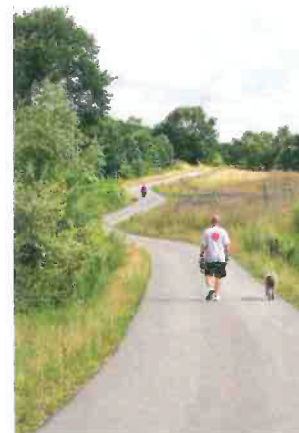


BUFFALO RIDGE TRAIL IMPROVEMENTS TRAVERSE CITY, MI

Wade Trim led design for a one-mile extension of the Buffalo Ridge Trail, the premier railway to connect the west and southwest areas of the Traverse City urban area to expansive recreational opportunities including a 60-mile trail network, multiple parks and natural areas, schools, businesses and beachfront. This trail extension will provide a critical and safer connection between Traverse City West Middle Schools, the new YMCA facility, and Garfield Township's Kids Creek Park.

The preliminary design phase for this project included topographic survey, geotechnical investigations, wetland delineation, trail centerline routing in the field, preliminary trail layout and cost estimating, and stakeholder and public meetings. Following the preliminary design phase, Wade Trim completed final design and construction documents and obtained all necessary permits including the wetland permit application from the MDEQ.

Working within the context of the land was critical on this project. Steep slopes, wetlands, safety concerns regarding the adjacent buffalo field, poor soils, and stream crossings were all considered during the routing of the trail. The final solution provides a sustainable and safe trail for the sensitive site while minimizing disturbance and maximizing user experience. An important asset during the project was the ability of the Project Manager to graphically translate the trail routing onto the topographic survey and aerial. Development of cross section renderings also helped in obtaining understanding and buy-in for the trail project during public meetings.



CLIENT:

Mackinac Island State Park

PROPOSED TEAM MEMBERS:

Scot Lautzenheiser, PLA
Paul Repasky, PE

CLIENT CONTACT:

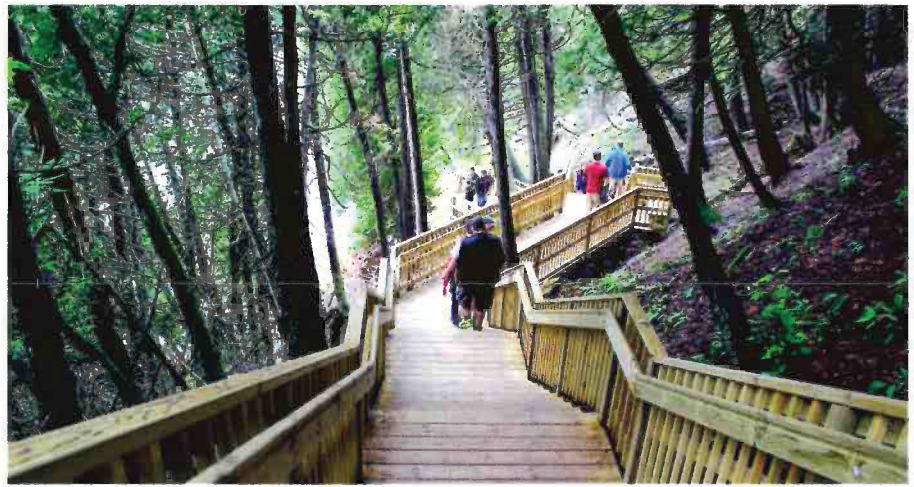
Robert Adams
Project Manager
906.779.4140

YEAR COMPLETED: 2014**FUNDING:**

MDNR Trust Funds

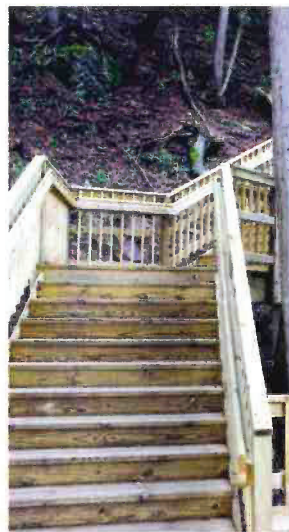
RELEVANCE TO ACME TRAIL

- > Design and construction documents
- > Sustainable design
- > Preservation of existing trees
- > Designed for ease of constructability and limited equipment availability
- > Steep grades along environmentally sensitive areas

**SPRING TRAIL IMPROVEMENTS**
MACKINAC ISLAND, MI

Wade Trim provided the design and preparation of construction documents for 400 feet of improvements to Spring Trail including a combination of boardwalk and stairs to accommodate the 125-foot elevation change from Lakeshore Boulevard to Arch Road. This project reconstructed and reconfigured the trail to create a path that safely accommodates people moving in both directions, and provides opportunities at overlooks and seating areas to pause for rest or to take advantage of the views of the lake. The stairs and boardwalk were designed to be structurally durable to handle thousands of yearly visitors while maintaining the integrity of the vegetation and geologic formations found at the site.

This project is indicative of Wade Trim's ability to develop comprehensive solutions to challenging, complex problems. The challenges included preservation of existing trees and the steep hillside. The project was designed for low maintenance and for ease of constructability as the availability of construction equipment was limited on the island.



CLIENT:

City of Lansing

PROPOSED TEAM MEMBERS:

Scot Lautzenheiser, PLA

Bob Breen, PE

CLIENT CONTACT:

Dick Schaefer

Landscape Architect

Parks & Recreation

517.483.4283

YEAR COMPLETED: 2014

FUNDING:

MDNR Trust Funds

RELEVANCE TO ACME TRAIL

- > Trail and boardwalk design over wetlands
- > Sustainable design
- > Designed to reduce maintenance



CREGO PARK DEVELOPMENT LANSING, MI

Wade Trim was a subconsultant for improvements to the City of Lansing's largest park, the 204-acre Crego Park adjacent to and in the floodplain of the Red Cedar River. The primary project goal was to increase fishing opportunities on Fidelity Lake through improved shore fishing locations and a fishing pier with underwater cribbing to enhance fish habitat. A key element in obtaining that goal was to increase access via a connection to the Lansing River Trail, a half-mile asphalt trail with a boardwalk over a wetland area.

A sustainable approach was taken toward the project, evident through routing of the trail to cause the least disturbance, to the use of porous pavement in parking areas. The parking lot and other elements requiring greater footprints were sited in previously open areas to minimize disturbance to natural features. Accessibility was a constant factor of the design. Measures taken to go above and beyond standard practices included design of a lowered fishing pier railing and an accessible canoe/kayak launch. Steep banks were sloped back and restored to reduce erosion, provide fishing access along the shore, reduce maintenance and improve safety. Native plantings provide habitat and also reduce the long-term maintenance. The project was awarded the 2015 Outstanding Park Design Award by the Michigan Recreation and Park Association.



CLIENT:

Davison Township

PROPOSED TEAM MEMBERS:

Scot Lautzenheiser, PLA

Bob Breen, PE

CLIENT CONTACT:

Charm Healy

Planning/Zoning Administrator

Davison Township

810.623.4156

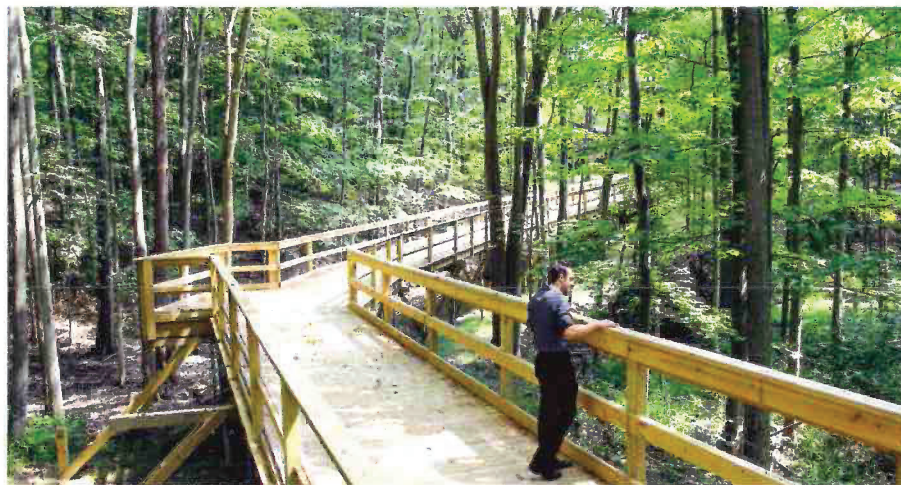
chealy@davisonwp-mi.org

YEAR COMPLETED: 2016**FUNDING:**

Michigan Natural Resources Trust
Fund

RELEVANCE TO ACME TRAIL

- > Master planning
- > Grant writing assistance
- > Survey and wetland delineation
- > Trail/boardwalk design
- > Landscaping/gateway design
- > Engineering and specifications

**WILLIAMS PARK PLANNING AND DESIGN**
DAVISON TOWNSHIP, MI

Davison Township is a growing economic area, strategically located in Genesee County along I-69 and M-15. The quality of existing development, the Township's aesthetic beauty, and the advantages of its location have brought new residents with a diversity of interests to the area. In 2011, an environmentally significant 100+ acre property along the Kearsley Creek was donated to the Township to be used for recreational and educational purposes. Wade Trim has been working with the Township since that time to facilitate the development of the property into the Robert Williams Nature & Historical Learning Center.

Wade Trim assisted the Township in the preparation of two grants through the Michigan Department of Natural Resources to develop the property, both of which were awarded, totaling approximately \$300,000 in grant funding. Wade Trim was then retained by the Township to oversee the preparation of a master plan for the site and prepare a detailed design for park improvements; this design engineering work is currently in progress.

Proposed park facilities will include various nature trails, a boardwalk trail segment within existing wetland areas, a trail bridge over the Kearsley Creek, an outdoor classroom, overlook area, pavilion, grand entrance area with arch and landscaping, and parking lot. The Township has also secured various project partners who will utilize the site for various educational and recreational purposes. These include the Davison Historical Society, who have recently constructed a new historical museum at the site, and the Davison Public Schools, who will be converting an existing structure on the property to an arts center.

CLIENT:

Genesee County Parks and Recreation Commission

PROPOSED TEAM MEMBERS:

Scot Lautzenheiser, PLA

CLIENT CONTACT:

Barry June
Interim Director
Genesee County Parks and Recreation
810.736.7100

YEAR COMPLETED: 2018

RELEVANCE TO ACME TRAIL

- > MDOT LAP project
- > Historical research and data collection
- > Coordination with State Historic Preservation Office and MDEQ
- > Sidewalks and crosswalks
- > Pedestrian signage
- > Permitting
- > Shared use path and pedestrian bridges
- > Drainage improvements
- > Funding assistance & grant administrative support



CHEVY COMMONS IRON BELLE TRAIL FLINT, MI

The Chevy Commons Iron Belle Connector Trail project, an MDOT Transportation Alternative Program (TAP) grant, Local Agency Project (LAP) for the Genesee County Parks and Recreation Commission, was administered through the Genesee County Road Commission (GCRC). Wade Trim was the prime consultant providing bid documents to meet the standards of MDOT, the County Parks and Recreation Commission, GCRC and the City of Flint. The project consisted of 0.82 miles of HMA shared use path construction, two 120-foot span pedestrian bridges, pedestrian advance warning signage and signalization and drainage improvements.

Coordination with Kettering University was required for acquisition of a permanent trail easement that involved several rendering options to fit the proposed trail within the envelope left by a proposed University gateway monument sign. Wade Trim also coordinated with the City for use of storm sewer structures as outlets as well as lane closures on City streets during construction of the trail tie-ins. During the project, Wade Trim worked with both stakeholders to ensure their requirements were met while maintaining the desired trail schedule. In addition, Wade Trim was able to navigate MDEQ concerns for a Joint Permit Application as well as State Historic Preservation Office concerns.



CONSTRUCTION COST CONTROL & SCHEDULING

3.1 APPROACH TO COST CONTROL & SCHEDULING

Preparing design documents that meet the technical, aesthetic, and functional needs of the project while adhering to financial and schedule constraints is our driving goal. To achieve this financially, we first compare your construction budget to the full extent of the proposed program elements. At the beginning of the project, we will independently provide preliminary cost estimates to determine if these elements stay within the financial limits established. If the limits are exceeded, the program elements can be reviewed and changed, or additional funds can be sought from other funding sources. Cost estimates will be refined as the design phase progresses in order to adhere to the construction budget. At the onset of the project Wade Trim works with clients to understand their desired timeframe and project goals, adjusting our delivery approach accordingly to deliver a quality project on time and within budget.

3.2 PROJECT REPORTING/MANAGEMENT

Project controls are needed to maintain design budgets. The Project Manager has direct access to comprehensive daily project status reports to assist with project control. Wade Trim uses BST Management Information System software that provides a powerful and flexible system to meet administrative and financial requirements. This software package integrates project effort, billing and financial controls as well as payroll systems.

The history of each project's cost and effort is maintained on a current period of end-of-month, year-to-date, and project-to-date basis. The Project Manager will review the schedule on a weekly basis, paying particular attention to meeting critical milestones. Corrective actions will be developed and implemented if needed, to keep the project on schedule.

3.3 SUSTAINABLE DESIGN TO REDUCE LONG-TERM MAINTENANCE

We strive to develop projects that respect the natural environment, enhance social benefits, and reduce ownership and maintenance costs. A sustainable trail is one that protects the environment, requires little maintenance, and meets the needs and expectations of its users. These core elements of sustainable trail design begin with the planning and design process. Trails designed with proper planning and correct alignment avoid costly repairs. Connecting users to destinations such as parks, waterfronts, vistas, and user facilities, while minimizing impacts to critical habitats, steep slopes, and regulated sensitive areas is vital to sustainable trails.

Sustainability is an integral element of our design approach. We design so that long-term trail maintenance is kept to a minimum. For example, through the use of native plant materials for slope stabilization and the selection of sustainable/recycled construction materials based on lifecycle costs, our design will lessen the impact to the natural environment and reduce long-term maintenance. We also strive to source construction materials which are close to the project site in order to reduce the carbon footprint of the project. Practices such as these regenerate natural systems. By working with the natural configuration of the land and understanding the natural systems of soil, water, topography, and vegetation, we can design in a way that restores and repairs ecosystems. Thoughtful and sustainable design will preserve the natural landscape, enhance habitats, deliver an ecologically sound and cost-effective project, and provide a well-designed and functional trail for generations to enjoy. We truly care about the environment and strive to make every project as sustainable as possible, and we understand how critical it is to reduce long-term maintenance; both of these elements will be inherent to every step of the project.

Section 4



EXPERIENCE WITH STATE/FEDERAL FUNDING

Over a two-decade period, Wade Trim successfully obtained over \$700 million in grant and loan funding for our municipal clients in Michigan. Exhibit 4-1 lists several projects funded using related grants and completed during the past five years as specified in Section 6.4 of the RFP.

Wade Trim assists communities and regional agencies in securing funds from the Michigan Department of Natural Resources Trust Funds and Land and Water Conservation Funds, and the Michigan Department of

Transportation Enhancement program. We have also been successful in obtaining funds from the Great Lakes Fishery Trust, Michigan Department of Environmental Quality Coastal Zone Management, the Clean Michigan Initiative, and many others. Our staff stay current on the administration requirements of many funding sources and legislation impacting the funding. We develop creative financing strategies to fund projects from start to finish by engaging clients and funding agencies early during project planning and design. This allows us to incorporate funding priorities and objectives into the project, thereby increasing the likelihood of obtaining grant and/or loan funds.

Wade Trim staff have developed working relationships with many funding agencies. These relationships are instrumental during design and construction to facilitate the permit process and meet the funding agency's documentation, milestone and final completion schedule requirements.

Exhibit 4 State and Federal Grant Funding Experience

GRANT AND COMMUNITY	AMOUNT	PROJECT	CLIENT CONTACT
MDNR Trust Funds			
Tahquamenon Area Recreation Authority, Newberry	\$280,000	Tahquamenon Outdoor Recreation Complex, Phase II	Beverly Holmes; 206.293.3433
City of Lansing	\$500,000	Crego Park Improvements	Dick Schaefer; 517.483.4283
Charter Township of Redford	\$450,000	Pedestrian Bridge and Trail over Bell Creek	Michael Dennis; 313.387.2785
Garfield Township	\$199,000	Buffalo Ridge Trail Improvements	Rob Larrea; 231.941.1620 Julie Clark, 231.941.4300
Davison Township	\$220,500	Williams Nature Park	Charm Healy; 810.623.4156
MDEQ Brownfield Redevelopment			
Tahquamenon Area Recreation Authority, Newberry	\$350,000	Tahquamenon Outdoor Recreation Authority, Newberry	Sharon Brown; 906.291.0620
MDOT Transportation Enhancement Funds			
West Bloomfield Township	\$611,431	Trail extension	Gregory Elliott; 248.451.4876
MDNR Land and Water Conservation Funds			
Davison Township	\$79,200	Williams Nature Park	Charm Healy; 810.623.4156



LINE ITEM COSTS

We propose to complete the Scope of Services, as described in Section 6, for the following not-to-exceed fees outlined in Exhibit 5 below.

Exclusions and Omissions

We will provide additional services, if requested, on a time and materials basis in accordance with our current schedule of rates and charges (or negotiated fee). Services not identified in this proposal shall be discussed as they arise. The following exclusions and omissions are not included in our Project Scope:

- Significant changes in scope.
- Additional meetings or coordination activities not identified in our scope or required after the project commences or not disclosed to Wade Trim at the time of preparing the project scope. We believe the 2 stakeholder and 2 public hearings will be sufficient for this project.
- Preparation and submittal of permit applications, other than those noted in this proposal.
- Coordination with private property owners for work on their property. Per the addendum, Acme Township and TART Trails have been working to secure the necessary easements and/or trail license agreements with willing land owners and will not be the responsibility of the selected consultant.
- Utility mitigation services
- Wetland mitigation services

Exhibit 5 Proposed Design Fees

TASK/SERVICE	COST
Geotechnical Services	\$5,800
Topographic Surveying and Mapping Services*	\$8,950
Public Input and Coordination (includes 2 public hearings and 2 stakeholder meetings)	\$6,000
Design Development Phase Services (includes obtaining all necessary permits)	\$15,700
Construction Document Phase Services	\$17,500
Bidding and Award Phase Services	\$3,350
Total not to Exceed Design Service Costs	\$57,300

* Survey does not include boundary survey. Boundary survey can be provided for an additional \$3,000.

Section 6



TIMELINE

6.1 TIMELINE SNAP SHOT

We anticipate commencing services for the Acme Connector Trail project in February or March, as weather allows, for accurate review of site conditions and topographic survey. The schedule in Exhibit 6 summarizes the milestones to complete the design of the project and the schedule for each identified task. We have included estimated time periods for design tasks and client reviews. The initial action items include all

field investigations, especially the wetland delineation. We will proceed with design development using the site information gathered during field reviews and topographic survey, and complete the wetland delineation in the spring. We will work with you and the other stakeholders toward a timely completion of the design plans. We believe the most realistic schedule of construction is spring 2020 in order to allow for funding to be obtained and for the most competitive bid pricing. We anticipate holding a Kick-off Meeting and Existing Conditions/Site Analysis in February or March to get an early start on addressing potential issues and researching opportunities. The topographic survey will be performed and soil borings conducted as weather permits. The wetland delineation will be completed when plants and soil identification can be accurately performed.

6.2 SCOPE OF WORK

The 1.2 mile long Acme Connector Trail will provide a critical connection to the existing TART Trail at Bunker Hill Road to the Grand Traverse Band's Village at Grand Traverse property and future multi-use development. This non-motorized multi-use trail will provide multiple

Exhibit 6 Proposed Timeline

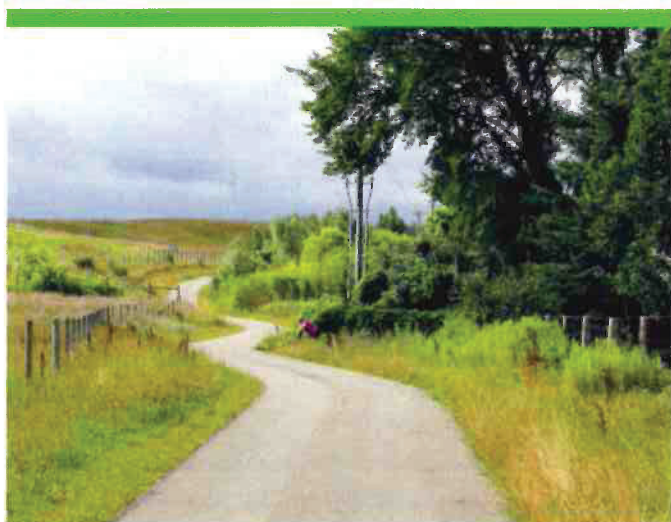
TASK/MEETING	DATE
Notice to Proceed	January 2019
Site investigation and data gathering	February - March 2019
Kickoff/Pre-Design Meeting	End of February 2019
Wetland delineation, topographic survey, and geotechnical investigation	March - April 2019
Preliminary trail alignment and 50% construction document plan set (design development)	May - June 2019
Stakeholder meeting #1 (including sitewalk)	Mid - End June 2019
Public Meeting #1	Mid - End June 2019
Draft final (90%) construction document plan set	July - August 2019
Development of trail signage	July - August 2019
Submit DEQ permit	July 2019
Stakeholder meeting # 2	Early September 2019
Public Meeting # 2	Early September 2019
Final construction document plan set	September - October 2019
Bidding and award phase services	January - March 2020
Start Construction	April 2020

connections with the existing roadway network, including being a shared-road trail for roughly a half mile, and provide neighborhood and existing trail connections. Additional trail linkages will be explored during the planning process. This connector trail is a critical section within Acme Township and the overall regional trail network.

This 10-foot-wide paved trail and boardwalk, will be designed to meet AASHTO and ADA guidelines. Wherever possible, universal accessibility will be provided. During the design development phase we will evaluate alternate routes for the trail. Routes will be analyzed for constructability, sustainability, costs, and aesthetics. In addition to the alignment, other program elements will be considered in the preliminary layout. These elements could include picnic and seating areas, educational opportunities, observation decks, wildlife observation, habitat improvements, art, and interpretive and directional signage.

We are familiar with this site, its opportunities and constraints, and the desired outcome for this trail. We are excited to build upon the previous trail networks and assist the Township with a successful completion of this much needed trail. Our solutions will be based on sustainable and practical planning standards, sound engineering practices, input from stakeholders, and established design guidelines to provide a functional, safe, and enjoyable trail experience for its multitude of users.

The professional services include the scope of work for the following phases as required in the Request for Proposal.



Buffalo Ridge Trail

6.2.1 Geotechnical Services

As part of the preliminary design services, Wade Trim and our subconsultant, Soils and Structures, will complete a thorough geotechnical investigation. We have determined the number and depth of borings based on the trail length from the previous preliminary design phase, and have estimated a small boardwalk will be required over the creek. We will provide two borings at a 25-foot depth for the boardwalk, one boring on each side of the creek. For the remaining 0.65 miles (3,400 lineal feet) of asphalt trail, we will provide one boring every 550 lineal feet, for a total of 6 borings at 7.5-foot depth. A geotechnical report will be prepared evaluating the borings and providing suitability of subgrade soils and recommendations for subgrade preparation. The boring locations will be based on the preliminary trail alignment and our field investigation.

6.2.2 Topographic Surveying and Mapping Services (Wetland Delineation)

Prior to the start of the topographic survey, the preferred trail centerline will be staked in the field. Site areas such as trail linkages and other critical locations will require a broader survey area. A complete and detailed topographic survey will be conducted within an approximate 50 to 100-foot corridor based on the proposed trail centerline, which locates and identifies existing surface features, such as trees, flagged threatened and endangered species, trail connections, slopes, wetlands, and other features. Sizes of larger trees and plant types will be identified. In addition, known underground infrastructure features, such as sanitary sewer and water supply valves will also be noted.

After the site topographic survey is completed, a base map will be prepared in AutoCAD format and reviewed by the survey crew chief for accuracy, especially limits of natural or sensitive environmental features and any existing underground facilities.

Our subconsultant, King and MacGregor Environmental (KME), will provide the wetland delineation. We have worked recurrently with this firm and are certain of our ability to deliver this service in a timely and efficient manner, weather permitting.

KME will flag wetland boundaries within the subject parcels contiguous to the proposed trail and will locate the wetland boundary flags using Global Positioning System (GPS). This information will be provided in Auto-

CAD format and integrated into the existing topographic survey file. KME will meet with the project team on one occasion to discuss the results of the wetland boundary flagging and natural resource and habitat assessments as they relate to site-specific development considerations. A wetland evaluation report will be prepared documenting the characteristics of the wetland-related site conditions and provide an opinion as to the MDEQ jurisdiction.

This field research will assist in determining the least disruptive and most cost-effective alignment of the trail. At the completion of these field investigations, the optimal trail alignment will be identified to best fit within the conditions of the land, address project functions, and provide for the most aesthetically pleasing route.

6.2.3 Public Input and Coordination

Wade Trim has experience with the public input and stakeholder process that is critical to this project. We anticipate attending and participating in two stakeholder meetings and two public meetings during the project. We will prepare exhibits and presentation materials for each stakeholder group and public meeting. These graphics will help to guide the project and meetings and will be critical toward obtaining feedback and generating ideas during the planning process. Our previous experience with these community groups will allow us to successfully assist in facilitating meetings and the fostering of the project stakeholders' vision for this project. We will refine the design based on the input received.

6.2.4 Design Development Phase Services

We propose to start this project and the preliminary design phase with a project kickoff meeting, including the Wade Trim key design staff, and the staff from Acme Township and TART Trails. The purpose of this meeting is to confirm goals and objectives and establish a clear vision for the project. A secondary objective will be to establish all roles and responsibilities and preferred methods of communications. In addition, we will collect and discuss any available existing data, information and conceptual trail layouts previously developed. The project schedule will be confirmed and specific dates for various meetings and deliverables will be established. At the end of this meeting, we propose walking the site with the project team to identify key areas, weather permitting.

We anticipate the outcome of this initial, general site review to determine the preferred corridor and potential route alternatives. Team members will walk and document the proposed route, critical areas and surroundings, in order to get a full appreciation for the site and document the existing conditions. We will also be analyzing the site for opportunities and constraints as it relates to potential improvements, modifications, critical habitats, and constructability issues. Following the meeting and site walk, we will perform the necessary research to evaluate the feasibility of the various alternatives and how to approach potential construction issues. A site inventory and analysis graphic will be developed to illustrate the findings utilizing available mapping and aerial photographs. The site analysis will reflect elements such as natural resources, circulation patterns, access points, utilities, infrastructure, use areas, buildings, and destinations. We will combine this inventory and analysis with the preliminary trail alignment graphic and present it at the end of the design development phase at the first public and stakeholder meetings at Acme Township.

Following the kickoff meeting, Wade Trim will utilize the feedback and information gathered to begin design development. We recognize that this design development process will be iterative as more public and stakeholder input is provided over the planning process. The design development phase is a continuation of the preliminary planning effort and takes the project to 50% plans including the trail alignment and development and layout of program elements. The design development will revise and refine the preliminary design documents to clearly depict the project requirements in the 50% construction document plan set.

During the design process, the trail alignment and site layout will be determined using a back and forth effort between layout in AutoCAD and field staking. The software will assist in the technical components such as ensuring accessibility requirements are met, while field staking will allow us to identify and locate unique vistas or educational opportunities into the design.

Key preliminary details will also be developed to schematically show design intent for the various trail types and major program elements. A thorough preliminary construction cost estimate will also be prepared. The construction cost estimate will consider historical unit prices as well as regional and current economic factors.

The preliminary design documents will comply with current regulations, ordinances, construction codes and permit requirements. In addition, we will identify and define required permits and potential funding sources for the final design and construction. We understand Acme Township and TART Trails will be securing necessary easements from willing land owners, and it will be our responsibility to obtain right-of-way permits from Grand Traverse County Road Commission and MDOT Rail.

Throughout the design, input received at the various stakeholder and public meetings will be used to further refine the preliminary design. We will consider creative solutions, community goals, and placemaking ideas throughout the design. We have the experience needed to meet the Township's objectives and successfully deliver this phase. We anticipate the first stakeholder and public meeting to occur at the end of this phase.

6.2.5 Construction Document Phase Services

After the first stakeholder meeting and public hearing, we expect to have a clear and concise direction for revising the plans and details. Plans will be revised to reflect decisions made, and the full construction documents, written specifications and bid documents will be prepared. In addition, the construction cost estimate will be revised.

Once the trail alignment is finalized, trail signage will be integrated throughout the design. This will include both regulatory and directional (wayfinding) signage, and a kiosk location. The wayfinding sign design will follow the standards and graphics previously used by TART Trails, along other trail networks. The sign design will include locating signs as required to provide adequate wayfinding and pedestrian/bicyclist orientation. We anticipate approximately 16 wayfinding signs as part of this project. Our design will detail the specific locations for the signs and posts, as well as the orientation and details of each wayfinding sign. Each sign will be comprised of an arrow, destination text, and applicable icons per TART Trail design standards. We are very familiar with these standards as we have provided signage design services on past projects for TART Trails. The Kiosk sign will be located in the area most suitable for a future trail gateway.

The second stakeholder meeting and public hearing will

occur towards the completion of the construction document phase to review the 90% plans. Any final input received will be used to revise the plans and documents and complete the final construction document plan set. Upon completion of these revisions, plans and specifications will be provided to any funding agencies per grant requirements, pending the use of grant funds. Additional permits obtained at this time are anticipated to include right-of-way permits and Michigan Department of Environmental Quality Part 301 Inland Lakes and Streams and Part 303 Wetland Protection Permit. Once permits have been approved, revised complete plans, specifications, and bid documents will be provided to the Township in both paper and electronic formats.

6.2.6 Bidding and Award Phase Services

Working closely with Township staff who will organize and orchestrate the primary bid period activities, Wade Trim will prepare the bid advertisement, attend the pre-bid meeting, respond to Contractor questions, develop necessary addendums, and assist in the analysis of bids and award recommendation.



10850 East Traverse Highway
Suite 2260
Traverse City, MI 49684
231.947.7400
www.wadetrim.com

Florida • Georgia • Michigan • Missouri • Nebraska
New York • North Carolina • Ohio • Pennsylvania • Texas

Acme Township

Trail Design Engineering &
Construction Document Services

RFP Response

December 13, 2018



*Creeks add beauty and interest
to a trail experience.*



innovative

OUR CORE VALUES

The Beckett & Raeder, Inc. team firmly believes and employs the following set of core values, which actively drive each professional throughout the duration of any project and contract. As a team, we strive to be:

- Responsive
- Exceeding Expectations
- Creative
- Passionate
- Dedicated

It is fundamental that each client receives services and expertise from Beckett & Raeder, Inc. while strictly adhering to the core values.

December 13, 2018

Acme Township

Mr. Shawn Winter, Planning and Zoning Administrator
Acme Township Hall
6042 Acme Road
Williamsburg, MI 49690

Regarding: Request for Proposals: Acme Connector Trail

Dear Mr. Winter:

Beckett & Raeder, Inc. is pleased to submit for your review and consideration, our professional services proposal for the Acme Connector Trail. We have assembled a team with local knowledge and experience, a background in non-motorized trail design funding, engineering and design, and work in environmentally sensitive areas.

Our proposed approach for this project calls for building on the past work of and decisions made by the Township, TART Trails and other project stakeholders during conceptual through preliminary design. Beginning with site inventory, followed by a simple revisitation or adjustment of the trail route, and establishment of any creek crossing locations, this step allows us to tailor our survey and geotechnical work accordingly. The subsequent design development phase will involve applying the site inventory to confirm or adjust the final trail route. To conclude design development, we are proposing one set of Township and Stakeholder meetings, to provide an opportunity for input after confirming or adjusting the trail route. Upon confirming the trail route and any wetland or stream crossings, we can proceed with permit application and begin the construction document phase, which includes two additional opportunities for stakeholder and public review. At this point, we're forecasting construction documents to be available at the beginning of September (dependent on ability to provide survey and geotechnical inventory during winter months).

The BRI Team for this project is very familiar with the trail planning efforts in Northern Michigan. Recently, the Petoskey BRI office, with the help of MET and Michigan Geomatics, our environmental consultant and surveyor for this project, successfully engineered and received permitting for a 1.5 mile length of trail in Petoskey State Park, all of which is accessible despite traversing dramatic critical dune topography. Our Geotechnical Consultant for this team is Otwell Mawby from Traverse City, and our Structural Engineer for bridge abutment design is Manchin Engineering in Traverse City, each of which we have worked with on previous projects. Perhaps as importantly, all team members live and recreate in the Northwest Michigan region, and as a result, we take pride in providing regional communities recreation developments from which they can be proud. We appreciate the opportunity to submit this proposal and anticipate the possibility of working with you and Acme Township on this project.

Respectfully submitted,



Timothy Knutsen, PLA, ASLA, CPSI, Senior Associate

Firm Background & Project Team

Business Organization



Beckett & Raeder, Inc. is a Michigan Corporation headquartered in Ann Arbor with additional offices in Petoskey and Traverse City, Michigan. The firm includes landscape architects, planners, civil engineers, LEED accredited professionals, and support staff maintaining registrations in the States of Michigan, Ohio, Indiana, and Illinois and certification at the national level.

HISTORY

Beckett & Raeder, Inc. was established as a Michigan corporation in 1966 with its corporate office in Ann Arbor, Michigan.

SERVICES

Major areas of practice and scope of services include sustainable design, land use programming and analysis, master planning, campus planning, placemaking, site planning and civil engineering, site development, municipal engineering, storm water management, downtown revitalization and redevelopment, community planning and urban design, economic development, public/private development services, and environmental services.

PHILOSOPHY

All commissions accepted by the firm are accomplished under the direct supervision of one of the firm's six principals. Senior Associates, Associates, Project Landscape Architects, Planners, and Engineers are assigned to projects in accordance with their individual expertise and the requirements of the project. In keeping with the philosophy of the office, the project team is involved in all aspects of the work through its entire duration. The firm routinely engages other consultants, as the work plan requires.

LOCATIONS

Ann Arbor

535 W. William,
Suite 101
Ann Arbor, MI 48103
734.663.2622

Traverse City

921 West 11th Street,
Suite 2E
Traverse City, MI 49684
231.649.1065

Petoskey

113 Howard Street
Petoskey, MI 49770
231.347.2523

WEBSITE

www.bria2.com

CONTACT:

John R. Iacoangeli, AICP, LEED AP, CNU-A
Principal
734.663.2622 | jri@bria2.com

Professional Affiliations & Organizations



Beckett & Raeder, Inc. is staffed by registered professional engineers, landscape architects, community planners, and environmental and ecological professionals and has specialized training and maintains professional affiliation with the following:

ACCREDITATIONS

U. S. Green Building Council LEED Accredited Professionals
Form Based Code Institute (FBCI)
Congress for the New Urbanism Accreditation (CNU-A)

CERTIFICATIONS

Michigan Economic Development Association Certified Economic Development Professional
Certified Stormwater Operator
Housing Development Finance Professional (HDFP)
Project Management Boot Camp
PASER Road Rating
Planning and Zoning Instructor (MAP)
Certificate of Real Estate
Certified Playground Safety Inspector (CPSI)
American Institute of Certified Planners (AICP)
National Charrette Institute Certification (NCI)
Certified Park and Recreation Professional

REGISTRATIONS

Professional Registered Engineers

- State of Michigan (PE)
- State of Ohio (PE)

Professional Landscape Architects

- State of Michigan (PLA)
- State of Ohio (PLA)
- State of Illinois (PLA)
- State of Indiana (PLA)
- Council of Landscape Architects Registration Boards

Residential Builder License

- State of Michigan

SPECIALIZED TRAINING

EPA Brownfield Redevelopment
People, Places and Placemaking
Economics of Place
Neighborhoods, Streets and Connections
Form Planning and Regulation
Collaborative Public Involvement
Applied Placemaking
Complete Streets
Geographic Information Systems
FEMA ICS-100, IS-00029, EFS 15
FEMA ICS-200, IS-00700 (NIMS)
Green Roof Design
Charrette System Training (NCI)

Professional Affiliations & Organizations

MEMBERSHIPS

American Planning Association (APA)	American Society of Landscape Architects (ASLA)	American Society of Civil Engineers (ASCE)	American Public Works Association (APWA)	Congress for the New Urbanism	Detroit Association of Planners
Heritage Ohio (Ohio Main Street)	Improving Michigan's Access to Geographic Information Networks (IMAGIN)	Institute of Transportation Engineers (ITE)	Michigan Association of Physical Plant	Administrators (MIAPPA)	Michigan Association of Planning (MAP)
MAP Planners in Private Practice	Michigan Complete Streets	Michigan Downtown Association (MDA)	Michigan Economic Development Association (MEDA)	Michigan Historic Preservation Network	Michigan Municipal League (MML)
(mParks) Michigan Recreation and Park Association	Michigan Rural Network	Michigan Society of Professional Engineers	Michigan School Business Officials (MSBO)	National Complete Streets	National Main Street Center
National Society of Professional Engineers	National Trust for Historic Preservation	Preservation Detroit	Society of Marketing Professional Services (SMPS)	Society of College and University Professionals (SCUP)	South Oakland County Municipal Engineers (SOCME)
Southern Michigan Water and Sewer Utilities Association (SMW & SUA)	Toledo Metropolitan Area of Council of Governments (TMACOG)	Urban Land Institute	URISA (Urban and Regional Information Systems Association)		

Services



MASTER PLANNING

Campus Planning
Traditional Neighborhood &
Small Town Design
Community Master Planning Watershed
Planning
Recreation Master Planning
Park Master Planning
Rural Land Planning Services
Land Use Planning

COMMUNITY PLANNING & ZONING

Comprehensive Master Plans Brownfield
Redevelopment
Zoning Ordinance /Codes
Specialized Zoning Ordinance
Provisions Development
Standards and Guidelines
Site Plan Review
Strategic Planning
Expert Witness Zoning Testimony
Community Development
Greenway Planning
New Urbanism

ENVIRONMENTAL SERVICES

Site Evaluation and Analysis
Low Impact, Conservation Design
Wetland Delineation
Constructed Wetland Design &
Installation
Wetland Restoration
Storm Water Management

ANALYSIS & EVALUATION

Site Analysis
Feasibility Studies
Site Selection Studies
Buildout Analysis
Market Analysis
Demographics
Natural Features Interpretive Studies

PROJECT CONSTRUCTION

Construction Administration
Field Inspection
Storm Water Operator
Bridge Inspection
Specification Writing
Project Cost Estimating
Construction Drawings

DOWNTOWN & ECONOMIC DEVELOPMENT

Brownfield Redevelopment
Grant Writing
Downtown Management
Downtown Master Plans
Special Finance Districts
Adaptive Reuse Studies
Retail Market Analysis
Strategic Planning/Visioning Workshops
Physical Design Plans
Streetscape Design & Implementation
Wayfinding & Signage
Tax Increment Financing & Development
Plans
DDA Creation

SITE DESIGN

Planting Design
Irrigation Design
Grading Plans
Utility Plans
Pavement Design
Lighting Design
Site Design Guidelines
Park Design

URBAN DESIGN

Corridor Design & Planning
Streetscape Design
Waterfront Design

FACILITY DESIGN

Marina Design
Playground Design
Athletic Facility Design
K-12 Site Development
Subdivision Design
Campgrounds
Parks Design
Higher Education

INFRASTRUCTURE

Storm Water Management
Water Distribution Systems
Sanitary Sewer Systems
Capacity Analysis
Capital Improvement
Program Wellhead Design & Protection
Pavement Evaluation
Streets and Roads
Onsite Sewage Treatment
Utility Marking
Parking

Selected Recent Awards



MICHIGAN ASSOCIATION OF PLANNING

Economic Planning and Development Award, 2018

Project Rising Tide

Urban Design Award, 2018

Jackson Downtown Streetscape
Jackson, MI

Best Practice Award, 2018

Planning for Resiliency in Michigan:
A Comprehensive Handbook

Urban Design Award, 2017

Jackson Blackman Park Expansion
Jackson, MI

Daniel Burnham Award for a
Comprehensive Plan, 2016

Jackson Community Master Plan
Jackson, MI

Implementation Award, 2016

Bear River Valley Recreation Area
Petoskey, Michigan

Daniel Burnham Award for a
Comprehensive Plan, 2015

Acme Township Master Plan
Acme, MI

Innovation in Economic Planning &
Development, 2015

Lakes to Land Regional Initiative: Food
and Farm System Assessment

Innovation in Regional
Planning, 2014

Lakes to Land Regional Planning Initiative

Daniel Burnham Award for a
Comprehensive Plan, 2013

Peshawbestown Master Plan
Grand Traverse Band of Ottawa
and Chippewa Indians

Daniel Burnham Award for a
Comprehensive Plan, 2010

Onokama Community Master Plan
Onokama, Michigan

AMERICAN SOCIETY OF LANDSCAPE ARCHITECTS

Merit Award, Michigan Chapter,
2017, General Design

Chicago Drive Corridor
Grandville, Michigan

Merit Award, Michigan Chapter,
2017, Planning & Analysis

Peshawbestown Community
Master Plan
Peshawbestown, Michigan

Merit Award, Michigan Chapter,
2016, Landscape Architectural Design

Jackson Blackman Park Expansion,
Jackson, Michigan

Merit Award, Michigan Chapter,
2016, Landscape Architectural
Sustainability

Wall Street East Parking Structure,
Ann Arbor, Michigan

Selected Recent Awards

Honor Award, Michigan Chapter,
2016, Landscape Architectural
Sustainability
Marshbank Park
West Bloomfield Township, Michigan

Merit Award, Michigan Chapter,
2015, Landscape Architectural Design
Munger Graduate Residences,
University of Michigan
Ann Arbor, Michigan

Merit Award, Michigan Chapter,
2014, Historic Significance
Petoskey Bayfront Park
Petoskey, Michigan

Merit Award, Michigan Chapter,
2013, Planning & Analysis
River Raisin Heritage Corridor East Master
Plan
Monroe, Michigan

Merit Award, Michigan
Chapter, 2010
Outdoor Learning Center
Central Michigan University
Mt. Pleasant, Michigan

**MICHIGAN RECREATION AND PARK
ASSOCIATION (mParks)**
Outstanding Park Design
Award, 2018
Petoskey Downtown Greenway,
South Segment
Petoskey, Michigan

Design Award, Outstanding Facility
2017
Silver Lake State Park
Mears, Michigan

Landscape Design Award, 2014
White Lake Bloomer Park
White Lake Charter Township, Michigan

Outstanding Park Design
Award, 2013
Argo Cascades
Ann Arbor, Michigan

Design Award, Landscape
Design, 2011
Bear River Valley Recreation Area
City of Petoskey, Michigan

Landscape Design Award, 2011
Marshbank Park
West Bloomfield Township, Michigan

Landscape Design Award, 2010
Outdoor Learning Center
Central Michigan University
Mount Pleasant, Michigan

**IMAGIN (Improving Michigan's
Access to Geographic Information
Networks)**
Innovation Award, 2018
Acme Township, Michigan

EDUCATION DESIGN SHOWCASE
Project of Distinction, 2017
Outstanding Design and Architecture
Lasch Family Golf Center, Michigan State
University
East Lansing, Michigan

**NATIONAL TRUST FOR HISTORIC
PRESERVATION**
Richard H. Driehaus National
Preservation Honor Award, 2014
McGregor Pool
Wayne State University
Detroit, Michigan

MICHIGAN HISTORIC PRESERVATION NETWORK

Government/Institution
Award, 2016
River Raisin Heritage Corridor, East Master
Plan
Monroe, Michigan

Cultural Landscape Award, 2014
McGregor Memorial Conference Center
Reflecting Pool and Sculpture Garden for
Contribution to Historic Preservation in
Michigan
Wayne State University
Detroit, Michigan

GREAT LAKES PARK TRAINING INSTITUTE

Great Lakes Park, Facility, &
Recreation Program Award, 2013
Marshbank Park
West Bloomfield Township, Michigan

WASHTENAW CONTRACTORS ASSOCIATION

Pyramid Award, 2018
University of Michigan Art & Architecture
A. Alfred Taubman Wing
Ann Arbor, Michigan

OAKLAND COUNTY

Oak Land Award, 2012
Marshbank Park
West Bloomfield Township, Michigan

Project Team: Roles & Responsibilities



*Sunflowers at Maple Bay Farms, Maple Bay
Natural Area, Grand Traverse County.*

John R. Iacoangeli, AICP, LEED AP, CNU-A, FBCI **Managing Principal, Community Planner**

A Principal with Beckett & Raeder, Inc. since 1991, John is a Professional Certified Planner and a member of the American Institute of Certified Planners. For more than thirty years John has worked with public and private sector clients on a variety of community and economic development based projects. He has been involved in the preparation and implementation of downtown and neighborhood revitalization, community development, economic development, historic preservation, recreation-based and natural resource-based projects for communities throughout the Midwest. His area of specialization is project implementation involving federal and state grants, local municipal financing, special authority financing, and public-private partnerships. John works primarily from the Petoskey and Traverse City offices and spends most of his time in Northern Michigan. John will serve as managing principal on the project but will also assist in stakeholder and public interaction.

Timothy Knutsen, PLA, ASLA, CPSI **Project Manager, Senior Associate, (license #: 3901001663)**

Tim is a professional landscape architect and senior associate at Beckett and Raeder, with more than 20 years of experience in site design and development. Tim's project experience includes residential and commercial projects, downtown streetscapes, high school and college campus developments and recreational design. Tim has worked on development grant acquisition, schematic through final design, and construction administration on trails projects in Northern Michigan. Tim received his Bachelor of Landscape Architecture from Michigan State University and joined Beckett & Raeder, Inc. in 1998. Tim heads up our Petoskey, Michigan office working with Northern Michigan clients and enjoys hiking, cycling, kayaking, and skiing in Northern Michigan. Tim will be Project Manager and serve as the primary point of contact.

Project Team: Roles & Responsibilities

Christopher DeGood, P.E.

Senior Associate, Civil Engineer, (license #: 6201049611)

Chris is a Civil Engineer at Beckett & Raeder with 22 years of experience managing and designing a variety of projects, including: institutional, commercial development, residential development, municipal, state, and federal government, industrial, and non-profit. He has provided professional civil engineering services for site selection, feasibility studies, land development plans, project land entitlements, stormwater management plans, low-impact development plans, utility plans, construction documents, technical specifications, and permit applications. He has also represented clients in all phases of the project approval and construction process. Chris is a runner, cyclist, skier, and an enthusiastic Northwest Michigan trail user. He has been a member of the TART Trails board of directors since 2009. Chris will serve primarily as project engineer on the project but will also assist in stakeholder and public interaction.

Carrie Klingelsmith, CPRP

Project Professional

Carrie brings a diverse background in both the public and private sector. As a Certified Park and Recreation Professional, she is dedicated and passionate about recreation services, programming, and their land uses. Carrie worked in the public sector for 16 years for a variety of municipalities, giving her unique insight into the daily operations of local governments, acting as a recreation programmer and park and recreation director. She matches this expertise with private sector experience that spans grant writing, marketing, development, and building partnerships and collaborative efforts. Carrie has successfully raised nearly \$1,000,000 dollars in grant funding for her clients over the years and strives to secure funding for important recreational projects. Carrie is a Northern Michigan resident who brings to the project her knowledge of and focus on potential funding opportunities, and will also assist in stakeholder and public interaction.

Marlena Smith, ASLA

Project Professional

Marlena has worked on a variety of project types at BRI including athletic field design, park design, park management planning, and K-5 playground design. Prior to joining BRI, she gained experience in designing, creating, and monitoring wetlands and assisted in the design and construction documentation production of multiple trails in the mid-Michigan area; including legs of the Iron Belle Trail. Her background knowledge includes construction document production, native plant materials, community input and engagement, hardscape detailing, and photo manipulation. Marlena is currently assisting on Northern Michigan recreational projects and strives to create spaces that help people to enjoy and have memorable outdoor experiences. Marlena will assist in field inventory, preparation of supporting graphics, preparation of cost information, and construction documentation.

Project Team: Workload & Hourly Rates

The Project Team represents approximately one-quarter of the BRI team from the Ann Arbor, Petoskey, and Traverse City offices. This team was selected due to their expertise and how it applies to the work scope, but also represents a team that we envision is best able to meet the requirements of the project according to the schedule. On a weekly basis, BRI conducts office scheduling meetings, which begin with a review of requests for proposals and an attempt to properly staff those proposals. The meeting is also used to discuss active project schedules and working schedules of all staff, so that on a regular basis, we can anticipate schedule deficiencies and adjust accordingly before a schedule becomes a problem.

Additionally, on a monthly basis, project managers and principals meet to discuss project schedules and staffing needs on a longer-term basis, projecting out one to two months at a time in order to identify and adjust to anticipated schedule deficiencies. Finally, the BRI staff takes pride in cohesiveness and in having a degree of knowledge regarding one another's areas of expertise and professional focus, which facilitates staff versatility and the ability to provide assistance to one another across our various areas of expertise.

Principal	\$145. / Hour
Senior Professional Engineer	\$135. / Hour
Senior Associate	\$125. / Hour
Associate	\$115. / Hour
Senior Landscape Architect	\$115. / Hour
Project Professional	\$ 95. / Hour

Subconsultant Project Team: Roles & Responsibilities



Cherry orchard, Leelanau Peninsula, Michigan.

Mackinac Environmental Technology Environmental Consultant

Mackinac Environmental Technology will perform wetland identification for the project. Paul Kreski has more than 10 years of experience at MET, including wetland and critical dune areas. Paul has worked with BRI performing similar duties on past projects, most recently performing Threatened and Endangered Species identification for the proposed Petoskey State Park Nonmotorized Trail.

Michigan Geomatics Survey Subconsultant

Michigan Geomatics will perform the site topographic survey on the project. Scott McClain, PS, EIT has more than 30 years of survey experience and is owner of Michigan Geomatics in Traverse City. Scott has partnered with BRI on numerous projects, most notably the proposed Petoskey State Park Nonmotorized Trail.

Otwell Mawby Geotechnical Engineering Consultant

Geotechnical services, which will include soils investigations for proposed bridge crossings; and pavement recommendations, will be provided by Otwell Mawby, a Traverse City consulting engineer. Melzar Coulter, P.E. will manage the geotechnical services, Mr. Coulter is an Acme Township resident with more than 13 years of geotechnical consulting experience. Mr. Coulter has managed geotechnical investigations for similar trail projects that have included boardwalks, wetlands, and retaining walls with notable examples including Millennium Park and Ada Trails in Kent County, Michigan. Internal review will be provided by Mr. Roger Mawby, PE, with more than 35 years of geotechnical experience.

Machin Engineering Structural Engineering Consultant

Structural engineering, which will include bridge abutment structural design, will be completed by Machin Engineering, a Traverse City consulting engineer. Mr. Pat Machin, P.E. will manage the structural services. Mr. Machin is an experienced engineer and project manager in the civil engineering field working with structural concrete, masonry, steel, and wood structures including deep foundations, earth retention, and other civil type projects for more than 20 years.

Resumes for all team members available upon request.

Project Team: Resumes



John R. Iacoangeli, AICP, LEED AP, CNU-A, FBCI Principal, Community Planner

John joined Beckett & Raeder, Inc. (BRI) as a Principal in 1991 and is a Professional Certified Planner and a member of the American Institute of Certified Planners. John has over thirty years experience working with public and private sector clients on a variety of community and economic development based projects. He has been involved in the preparation and implementation of downtown and neighborhood revitalization, community development, economic development, historic preservation, and natural resource-based projects for numerous communities throughout the Midwest. His area of specialization is project implementation involving federal and state grants, local municipal financing, special authority financing, and public-private partnerships.

He serves as an advisor-consultant to planning commissions and a variety of redevelopment authorities (DDA, CIA, BRA) and is a frequent instructor for the Michigan Association of Planning and the MIPlace program.

EDUCATION

Master of Public Administration,
Northern Michigan University, Marquette,
Michigan

Bachelor of Science, Resource
Management, University of Michigan,
Ann Arbor, Michigan

CERTIFICATES

Certificate of Real Estate, University of
Michigan and Michigan Association of
Realtors

Congress for New Urbanism
Accreditation

Form Based Code Institute Certification

LEED Accredited Professional

FEMA

ICS-100, IS-00029, EFS 15.

ICS-200, IS-00700 (NIMS)

AFFILIATIONS

Rural Partners of Michigan (Board)

Toledo Metropolitan Council of
Governments (Committee)

NorthSky (Rotary Charities of Traverse
City)

SELECTED EXPERIENCE

**Lakes to Land Regional Initiative
Collaborative Master Plan for sixteen
communities in Benzie and Manistee
Counties**

**Innovation in Regional Planning Award –
Michigan Association of Planning, 2014**

**Lakes to Land Farm and Food System
Assessment**

**Innovation in Economic Planning and
Development – Michigan Association of
Planning, 2015**

**Acme Township Placemaking &
Master Plan, Acme Township, Michigan**
**Daniel Burnham Award for a
Comprehensive Plan – Michigan
Association of Planning, 2015**

**River Raisin Heritage Corridor East
Master Plan**

Monroe County Historical Society,
National Park Service, City of Monroe,
Monroe, Michigan

**Merit Award – Michigan Chapter
of American Society of Landscape
Architects, 2013**

**Honor Award – Michigan Historic
Preservation Network, 2016**

**Peshawbestown Master Plan, Grand
Traverse Band of Chippewa and Ottawa
Indians, Peshawbestown, Michigan**

**Daniel Burnham Award for a
Comprehensive Plan – Michigan
Association of Planning, 2012**

**Michigan State Housing Development
Authority, Downtowns of Promise
Strategic Planning**

Flint, Saginaw, Benton Harbor,
Hamtramck, Highland Park, Muskegon
Heights, and Detroit's Joy-Southfield
Neighborhood

**City of Marquette Master Plan,
Historic Waterfront and Lower
Harbor Master Plan, Redevelopment
Plan, Marquette, Michigan**

**Dexter Strategic Plan and
Placemaking, Dexter, Michigan**

Project Team: Resumes



Timothy Knutsen, PLA, ASLA, CPSI Senior Associate

Tim is a design professional with more than 18 years of experience in site design and development. He also heads up our Petoskey, Michigan office working with Northwest Michigan clients on public and private projects. Tim's project experience includes downtown streetscape design, campus developments and athletic improvements for schools and colleges, trail and recreational design. Tim received his Bachelor of Landscape Architecture and Associate in Landscape and Nursery Management from Michigan State University and began his career at Beckett & Raeder, Inc. in 1998.

EDUCATION

Bachelor of Science, Landscape
Architecture, Nursery Management
Michigan State University
East Lansing, Michigan

LICENSES and CERTIFICATES

Licensed Landscape Architect
No. 3901001663

Certified Playground Safety Inspector

AFFILIATIONS

American Society of Landscape Architects

SELECTED EXPERIENCE

Bear River Recreation Master Plan
Design Award, Michigan Recreation
& Park Association - 2011, Petoskey,
Michigan

City of Petoskey Bear River Recreation
Master Plan
Design Award, Michigan Recreation &
Park Association - 2011
Petoskey, Michigan

City of Petoskey Downtown
Greenway (MDNR MNRTF)
Petoskey, Michigan

City of Petoskey Bear River
Whitewater and Habitat
Improvements
Petoskey, Michigan

City of Petoskey
Belle Iron Trail Bridge Crossing
Preliminary Engineering
Petoskey, Michigan

Onkama Township Langland Park
Beach Access Improvements (MDNR
MNRTF)
Permitting, Final
Boyne City, Michigan

MDNR Petoskey State Park
Non-Motorized Trail Preliminary
Design, MDEQ/USACE Permitting,
Final Design and Engineering

Project Team: Resumes



Christopher DeGood, P.E. Senior Associate, Civil Engineer

Chris is a Civil Engineer at Beckett & Raeder with more than 20 years of experience managing and designing a variety of projects, including: institutional, commercial development, residential development, municipal, state, and federal government, industrial, and non-profit. He has provided professional civil engineering services for site selection, feasibility studies, land development plans, project land entitlements, stormwater management plans, low-impact development plans, utility plans, construction documents, technical specifications, and permit applications. He has also represented clients in all phases of the project approval and construction process.

EDUCATION

Bachelor of Science in Civil and
Environmental Engineering
University of Michigan
Ann Arbor, Michigan

Master of Science in Project Management
Northwestern University
Evanston, Illinois

REGISTRATIONS

Licensed Professional Engineer
State of Michigan
License Number: 6201049611

AFFILIATIONS

American Society of Civil Engineers

Traverse City Rotary Club

Traverse City Rotary Camps & Services
Board of Trustees

Traverse City Rotary Water Committee,
Chairperson

TART Trails Board of Directors, President

Garfield Township Planning Commission

Garfield Township Parks Commission

SELECTED EXPERIENCE*

Medical Institutions:

New Parking Deck, Munson Medical
Center

Master Plan Update, Munson Medical
Center

Cowell Family Cancer Center, Munson
Medical Center

Northwest Addition, McLaren Macomb
Hospital

University:

East Medical Campus Facility, Central
Michigan University

Campus Intersection Reconstruction,
Michigan State University

New Transit Maintenance Facility,
University of Michigan

Municipal Engineer General Services:

Bayfront, Traverse City, Michigan

Village of Suttons Bay, Michigan

City of Naperville, Illinois

Village of Green Oaks, Illinois

Transportation:

**MDOT Stormwater Program
Management**

US-24 and I-75/US-24 Connector,
Michigan

Stormwater Planning:
**Green Stormwater Infrastructure
Plan**, Munson Medical Center,
Traverse City, Michigan
Stormwater Containment, Dow
Chemical, Midland, Michigan

K-12:

New Performing Arts Center, Jenison
Public Schools, Georgetown Township,
Michigan

New Football Stadium, Greenville
Public Schools, Greenville, Michigan

New Elementary School, Detroit
Public Schools, Detroit, Michigan

**Work performed outside of Beckett &
Raeder, Inc.*

Project Team: Resumes



Carrie Klingelsmith, CPRP

Project Professional, Planner and Project Manager

Carrie brings to Beckett & Raeder, Inc. a diverse background in both the public and private sector. As a Certified Park and Recreation Professional, she is dedicated and passionate about recreation services, programming, and their land uses. Carrie has worked in the public sector for a variety of municipalities, giving her unique insight into the daily operations of local governments, acting as a recreation programmer and park and recreation director. She matches this expertise with private sector experience that spans grant writing, marketing, development, and building partnerships and collaborative efforts. Carrie has successfully raised nearly \$1,000,000 dollars in grant funding for her clients over the years and strives to secure funding for important recreational projects.

EDUCATION

Bachelor of Applied Arts, Recreation,
Parks and Leisure Service Administration

Central Michigan University
Mt. Pleasant, Michigan

LICENSES & CERTIFICATES

Certified Park and Recreation Professional

AFFILIATIONS

mParks - Michigan Recreation & Park
Association

mParks Regional Association Knuckles
Knorth

BOARDS & COMMITTEES

Petoskey Chamber of Commerce

SELECTED EXPERIENCE

Acme Township Parks and Recreation
Plan - in progress

Bay Township Parks and Recreation
Plan - in progress

Kalkaska Township Feasibility Study -
in progress

Natura Architectural Consulting, LLC,
Business Development Director*
Finding resources and leveraging
relationships for potential projects;
preparing proposals and marketing
materials; implementing social media
efforts; calendar management

M.C. Smith Associates & Architectural
Group, Inc., Park and Recreation
Strategic Planning and Marketing
Director*
Preparation of 5-Year Park and Recreation
Plans; park system inventories and
analysis; finding resources and leveraging
relationships for potential projects;
community grant writing that secured
nearly \$900,000 dollars in two years;
preparing proposals and marketing
materials; implementing social media
efforts.

Project Manager for the City of
Novi Parks, Recreation and Cultural
Services Capital Needs Assessment in
2014.

Byron Township

Parks and Recreation Director*

Planning, designing, marketing, and
implementing programs; administration
of department budget; developing
partnerships and collaborations; oversight
of facility operations; acquired \$100,000
dollars in grant funding.

City of Wyoming Parks &
Recreation Department, Recreation
Programmer*

Planning, designing, and implementing
programs; recording program
attendance; expanding current activities;
supervising leagues, instructors, and
employees

City of Farmington Hills Park and
Recreation Plan, Farmington Hills,
Michigan – in progress

Orion Township Park and Recreation
Plan, Lake Orion, Michigan – in progress

Project Team: Resumes



Marlena Smith, ASLA Project Professional

Marlena has worked on a variety of project types at BRI including athletic field design, park design, park management planning, and K-5 playground design. Prior to coming to BRI, she gained experience in designing, creating, and monitoring wetlands and assisted on the design and construction documentation production of multiple trails in the mid-Michigan area; including legs of the Iron Belle Trail. Her background knowledge includes construction document production, native plant materials, community input and engagement, hardscape detailing, and photo manipulation. Being raised an outdoors-woman, Marlena strives to create spaces that allow people to enjoy and have memorable outdoor experiences at any scale or setting.

EDUCATION

Bachelor of Science
Landscape Architecture
Michigan State University
East Lansing, MI

Master of Arts
Environmental Design
Michigan State University
East Lansing, MI

LICENSES & CERTIFICATES

Michigan Commercial Pesticide
Applicator

AFFILIATIONS

American Society of Landscape Architects

BOARDS & COMMITTEES

Petoskey Chamber of Commerce

SELECTED EXPERIENCE

Oscoda Township Parks
Park Master Plan Renderings
Oscoda, MI

MDNR Torch Lake
Boating Access Feasibility Study
Public and Stakeholder Input
Torch Lake Township, MI

MDNR Belle Isle General
Management Plan
Public and Stakeholder Input
Detroit, MI

Silver Lake State Park Off-Road
Vehicle Area Conceptual Site
Improvements Rendering
Mears, MI

Dexter Community Schools
Multi-Use Synthetic Turf Field
Dexter, MI

Garden City Schools
Memorial and Lathers Elementary
Playground Layout
Garden City, MI

Similar Project Experience

Similar Project Experience

B R i
Beckett&Raeder

Landscape Architecture
Planning, Engineering &
Environmental Services



Marshbank Park Trails, West Bloomfield

Selected Rural Nonmotorized Trail Projects

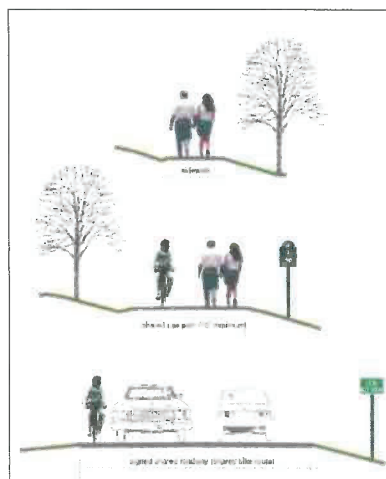
Beckett & Raeder, Inc. provides Landscape Architecture, Planning, Engineering and Environmental Services and has a broad range of experience in all phases of nonmotorized trail systems. Whether it is a greenway, a recreational trail, a connecting trail system, a boardwalk, a riverwalk, a shared-use trail—we first consider the needs of the people using these systems. We design nonmotorized trails so they are safe, comfortable, and convenient for all users—pedestrians, bicyclists, motorists, and transit riders of all ages and abilities. Another top priority in our design planning is the wise use and preservation of the natural landscape features that the projects touches.



US-23 Nonmotorized Trail, Rogers City

Representative Projects Include:

- Canton Greenways
- Commerce Township Dodge Park V Trails
- Macomb Township Waldenburgh Park Trails
- Pittsfield Township Hickory Woods Park Trails
- West Bloomfield Air-Line Trail
- West Bloomfield Marshbank Park Trails
- White Lake Township Bloomer Park Trails
- University of Michigan Dixboro Shared-Use Trail
- US-23 Nonmotorized Trail, Rogers City to P.F. Hoeft State Park
- Ypsilanti Township Lakeside Park Trails



Canton Greenways

i
inspire

Similar Project Experience



Lower Harbor Nonmotorized Trail, Marquette

Selected Sensitive Lands Nonmotorized Trail Projects

Beckett & Raeder, Inc. provides Landscape Architecture, Planning, Engineering and Environmental Services and has a broad range of experience in all phases of nonmotorized trail systems. Whether it is a greenway, a bridge, a connecting trail system through a fragile landscape, a boardwalk, a riverwalk—we first consider the needs of the people using these systems. We design nonmotorized trails so they are safe, comfortable, and convenient for all users—pedestrians, bicyclists, motorists, and transit riders of all ages and abilities. Another top priority in our design planning is the wise use and preservation of the natural landscape features that the projects touches.

Representative Projects Include:

Alpena Bi-Path
Lapeer Linear Park
Marquette Lower Harbor Nonmotorized Trail
Muskegon Lake Shore Trail
Petoskey State Park
Sault Ste Marie Ashmun Bay Park Trails



Lapeer Linear Park



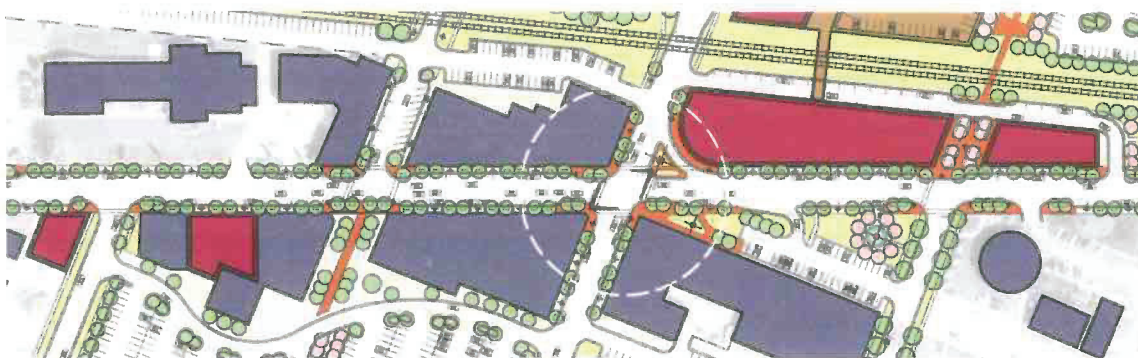
Petoskey State Park



Similar Project Experience

B R i
Beckett & Raeder

*Landscape Architecture
Planning, Engineering &
Environmental Services*



Grandville Nonmotorized Plan

Selected Urban Nonmotorized Trail Projects

Beckett & Raeder, Inc. provides Landscape Architecture, Planning, Engineering and Environmental Services and has a broad range of experience in all phases of nonmotorized trail systems. Whether it is a greenway, a bridge, a connecting trail system, a boardwalk, a riverwalk, a roundabout—we first consider the needs of the people using these systems. We design nonmotorized trails so they are safe, comfortable, and convenient for all users—pedestrians, bicyclists, motorists, and transit riders of all ages and abilities. Another top priority in our design planning is the wise use and preservation of the natural landscape features that the projects touches.



Broadway Bridge Nonmotorized Connections, Ann Arbor

Representative Projects Include:

- Boyne City Boardwalk
- Broadway Bridge Nonmotorized Connections, Ann Arbor
- Dexter Bridge Nonmotorized Connections
- Dundee Riverwalk
- Frankenmuth Riverwalk Pathway
- Grandville Nonmotorized Plan
- Nixon Road Roundabout Nonmotorized Connections
- Petoskey Greenway
- Petoskey Waterfront Nonmotorized Path
- Rogers City Trail System



Greenway Nonmotorized Path, Petoskey

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innovative

PROJECT UNDERSTANDING

Acme Township is seeking to advance the effort to develop approximately 1.2 miles of nonmotorized trail that would provide a critical link between Traverse Area Recreation & Transportation's (TART) Traverse City to Charlevoix Regional Nonmotorized trail, and the Village at Grand Traverse development in Acme Township, Michigan.

A dedicated stakeholder group has worked with Acme Township to complete a preliminary design plan for the project. Final trail design and engineering, construction document preparation and bid phase services for the project will be completed by the consultant team selected by Acme Township, during which the continued involvement of the stakeholder group and public will be critical.

Successful implementation of this project will be imperative in order to set the stage and initiate momentum for subsequent-phase trail projects. Specifically, we believe successful implementation requires that full consideration must be given to sensitive natural areas, links to adjacent trail segments, universal accessibility and the user experience. Additionally, the trail layout, composition of materials from trails to bridges, site furnishings, wayfinding and interpretive signage, and links to neighborhoods or adjacent trails can and should all be leveraged to establish a distinct and unique character for this portion of trail. As the Township develops subsequent portions of trail, the means described above to help provide a unique identity to the trail can be similarly implemented, ultimately resulting in a collection of trails with a level of quality and identity by which the Township can be recognized. We like to provide engineering and design solutions that lend a level of character and identity to our projects, for the obvious benefits: when visitors recognize a trail positively as an Acme Township trail, they're more likely to visit other township trails or to recommend them to others. We believe that a successful design, engineering and implementation effort will also require:



*Petoskey Downtown Greenway - Phase 2 Project;
2018 mParks Design Award*

Project Team Ability

BRI has successfully implemented numerous trails projects throughout the state, in many cases from conceptual design through funding application and construction implementation. For this proposal, we have assembled a project team with significant experience in nonmotorized trail and bridge permitting, design and engineering, and working as well as residing in Northwest Michigan. **John Iacoangeli** is an active community member and a planning partner at BRI in Petoskey who focuses on working with northern Michigan communities. **Tim Knutsen**, Project Manager, has worked on numerous regional trail development projects while at Beckett & Raeder, including permitting and final engineering for a 1.3-mile accessible nonmotorized trail that traverses regulated Critical Dune area within Petoskey State Park. **Chris DeGood** is a civil engineer with more than 20 years of experience on a range of projects, including site planning and stormwater management for environmentally sensitive sites, who lives and works in Traverse City. **Carrie Klingelsmith** is a Parks and Recreation planner with valuable experience in project funding opportunities. And **Marlena Smith** has assisted in all phases of trail development, from gathering inventory and receiving public input to preparing construction documents and providing construction observation. Perhaps as importantly, our team is composed of professionals who enjoy designing recreational improvements that truly benefit their communities. We all live in or near communities that prioritize recreational opportunities. We have included examples of this work within this proposal.

WORK PLAN

This work plan proposes a methodology and process to complete the design and engineering efforts defined in the RFP in a manner that allows the Township, stakeholders and public numerous opportunities to provide input toward the final plan and toward satisfying the metrics of a successful project as described in the Project Understanding. We anticipate the best solution to be an outcome of addressing and balancing various, and sometimes competing criteria. Our process will seek to marry the opportunities and constraints of the site and budget in a manner that best fulfills the client's goals for the project.

Acme Township and its stakeholders have been engaged in preliminary trail planning for the township, and in a more regional sense for a number of years. Accordingly,

our approach toward the Acme Connector Trails project strives to build on this effort: we intend to work with the Township, stakeholders and public by first confirming the recently completed preliminary plans, trail route, and preliminary opinion of construction cost, and then further developing and detailing the preliminary engineering plans and probable opinion of construction cost that the team worked to complete in the previous phase. Throughout the design process, at both 50% and 90% (we would actually recommend 75%) levels of construction document completion, we will present the developing engineering plans, enlargements, details, and supporting graphics, also updating the Township and stakeholder group regarding the OPCC. Input received from the presentations will be used to shape the trail engineering documents into their final form.



A view of Bayside Park, Williamsburg, Michigan.

COMPONENT 1: Design Development

TASK 1: PROJECT INVENTORY AND ANALYSIS

This task will serve to set the design process in motion by making final revisions to the proposed Work Plan, establishing an on-going communication procedure between the consultant team, the stakeholder group, and Acme Township. We will gather all data and information necessary to guide the design, identifying significant factors and patterns that will directly or indirectly influence the development of the final engineering documents for the Acme Connector Trails. Accordingly, this task will involve the following:

1.1 INITIAL PROJECT MEETING

BRI will coordinate and administer the initial meeting with Acme Township in order to discuss specific details relative to the project, the final work plan and special considerations in the design process. The initial meeting will serve to confirm the project scope, and to establish basic attitudes and priorities relative to plan development. Representatives from the previously established Stakeholder

group would be identified during this meeting, and we will receive any other documents, drawings, sketches or other efforts regarding the Acme Connector Trails. This will also be an opportunity to discuss details or specific challenges to the preliminary trail route prior to initial site inventory. Finally, we will identify any additional information required to conduct the final engineering plans, identify review agencies and identify local, State and Federal regulatory and permitting requirements.

1.2 PROJECT SCHEDULE

Immediately following Task 1.1 (Initial Project Meeting), we will refine the project schedule presented herein and develop a timeline of meetings, which will be followed and/or updated during subsequent phases of the project. The BRI Team will coordinate with the Township by phone or in-person meeting to present and discuss the design process and schedule, and to inform the Township regarding opportunities for stakeholder and community input. Once complete, this will serve as the project timeline, some of which may be shared with the public in order to coordinate presentations with as much advance notice as possible.

WORK PLAN

1.3 INITIAL SITE INVENTORY

The BRI team will perform a physical site inventory of the proposed trail route, in order to confirm or make adjustments to the preliminary trail route before topographic survey begins. This step allows us to consider the following design influences in the field:

- Views and Aesthetic Opportunities
- Adjacent Context
- Interpretive Opportunities
- Important Trail Links
- Potential Conflicts and Hazards

This step is also imperative because it allows us to revisit the preliminary trail route in true scale, and to make any adjustments to the route that are necessary to best fit the site and minimize unnecessary impacts to the site or budget before moving into design development. We will stake the proposed trail centerline so that the proposed route can be viewed in the field. Staking the proposed trail centerline also helps our team to control the amount of topographic survey required to complete final trail and bridge engineering.

1.4 TOPOGRAPHIC SURVEY AND GEOTECHNICAL INVESTIGATION

The BRI Team will complete topographic survey for the area indicated in the RFP and preliminary plans provided with the RFP. The BRI Team will also complete the geotechnical investigation necessary to determine suitability for development of trails and bridge crossings and to specify trail construction materials.

1.5 ANALYSIS OF PREVIOUS PLANNING

We will analyze all previous planning and design documents provided to us relative to the project area and we will suggest conclusions from this information that will influence or impact the design plan. Specifically, we will review the Acme Township Trail Connectors preliminary plans and OPCC completed in the previous phase.

TASK 2: DESIGN DEVELOPMENT

During the Design Development phase, the BRI team will use the information gathered in Task 1 to develop and refine the preliminary design plans completed in the previous phase, in order to facilitate subsequent preparation of drawings and specifications for bidding and construction purposes. Specifically, this phase will include the following sub-tasks:

2.1 UTILITY COORDINATION

We will inventory and analyze all utilities to be impacted or affected by the project. We will review both above-grade and below-grade utilities and identify conflicts between

design elements and utility locations, to the extent such locations are known.

2.2 RECONCILE PRELIMINARY DESIGN

We will reconcile the Preliminary Design with topographic survey base information. We will identify and resolve discrepancies resulting from that reconciliation. We will identify the extent of demolition necessary to implement the proposed design.

2.3 HORIZONTAL AND VERTICAL CONTROLS

We will develop horizontal and vertical design controls for the project, trail and trail link elevations, adjacent walks and pavements, associated storm water management technique, and conceptual grading and drainage necessary to achieve those geometrics.

2.4 DEVELOP NON-MOTORIZED TRAIL, SIDEWALK, AND RELATED IMPROVEMENTS

We will further develop the trail route, including access points, entrances and related improvements, and critical features, views, and vistas, with consideration given to safety, maintenance and longevity, visual appearance, and minimizing site impacts. Additionally, we will further develop plan views, cross sections and/or elevations as necessary to communicate design intent.

2.5 PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST

We will revisit the preliminary opinion of probable construction costs for the proposed improvements and make adjustments as necessary based on new information that arises as a result of having more detailed base and building systems design information. We will work with Acme Township to identify priorities, means of reducing project costs including development phasing, should the projected cost of construction exceed that budgeted.

2.6 CLIENT MEETING

While this meeting is not a stated requirement in the Request for Proposals, we believe that this is an important juncture at which to share the evolving plan with stakeholders. This is a point at which to get a final read on large-scale decisions before moving into more detailed design and engineering. Before moving into Construction Document preparation, we will meet with Acme Township and the stakeholder group to review the design development drawings, costs and assumptions prior to proceeding to the construction documentation phase. We will make revisions to the Design Development drawings based on the input received in this meeting. We will identify the preferred approach to implementation, discussing the pros and cons of construction and activity overlap and the schedule implications of various options.

WORK PLAN

COMPONENT 2: Construction Documents

TASK 3: FINAL CONSTRUCTION DOCUMENTS (Plans and Specifications)

This task will involve the preparation of all drawings and specifications necessary to completely and accurately describe the proposed work for bidding and construction.

3.1 APPROVALS AND PERMITS

The BRI Team will further develop the Design Development drawings to a level at which they may be considered complete for submission to necessary permitting agencies, including the MDEQ/USACE Joint Permit Application. The BRI Team will then submit plans to all necessary agencies for review and permitting approval.

3.2 CONSTRUCTION PLANS AND SPECIFICATIONS

The purpose of this phase will be to prepare the complete set of bidding documents, consisting of drawings including, but not limited to, the following:

- Survey of Existing Conditions
- Demolition Plan
- Layout and Materials Plan
- Soil Erosion and Sedimentation Control Plan
- Grading Plan
- Site Utilities Plan
- Site Restoration Plan
- Site Construction Details

.01 50% Construction Plan Review:

Construction Plans at a 50% level of completion will allow the client to review the plans with more attention to detail, including use of materials, construction details and methods – how the specific improvements will be constructed. We will submit two sets each of full-size and half-size plans at 50% level of completion to Acme Township and TART Trails for review. We will also attend a public meeting at which the plans are presented by stakeholders for public input. Finally, we will incorporate the review comments into the plan as necessary.

.02 90% Construction Plan Review:

A review of CDs at a 90% level of completion* provides the opportunity to revisit the plan once more before putting it into bid form. This may include revisiting design decisions or revisions made during the previous review, but will also include finalizing project schedules, budgets, and phasing, if applicable. We will submit two sets each of full-size and half-size plans at 90% level of completion to Acme Township and TART Trails for review and will

attend a public meeting at which the plans are presented by stakeholders for public input. Finally, we will incorporate the 90% review comments into the plan as necessary.

**We may want to discuss the option of having a 75% review rather than a 90% review so that the final opportunity to receive feedback occurs early enough in the design process.*

In addition to the above drawings, we will prepare and assemble complete specifications in CSI format, including Acme Township standard procurement procedures, General Conditions and Specifications as applicable. We will provide a digital copy of the plans and specifications for an electronic bidding process. We will provide five (5) hard copies of plans and specifications to Acme Township.

TASK 4: BIDDING AND AWARD

This part shall include bidding and award procedures as follows:

4.1 BID PERIOD

The BRI Team will provide interpretations and other assistance to the Township, TART Trails and bidders as necessary during the bidding process. We will recommend modifications to the Contract Documents if needed to ensure the best bid results and issue any required addenda.

4.2 MANDATORY PRE-BID MEETING

The BRI Team will attend, facilitate, and document the Pre-bid Meeting.

4.3 BID OPENING

The BRI Team will attend, facilitate, and document the Bid Opening Meeting.

4.4 BID AWARD

BRI will tabulate the bids, review them with the Township and TART Trails, and recommend Award of Contract.

CONSTRUCTION PHASE SERVICES

The BRI Team has experience providing construction phase services, and can provide a fee quote upon request that includes the following to help ensure a thorough and successful design implementation:

- Post-Award Documentation
- Construction Survey Layout
- Construction Materials Testing
- Construction Administration
- Construction and Grant Close-Out Documentation



illuminate

Construction Cost, Ongoing Maintenance Cost, & Schedule Control

Construction Cost, Ongoing Maintenance Cost, & Schedule Control

Cost control and understanding of the budget and schedule throughout the project is necessary for successful implementation. However, if we only had to focus on cost as a factor, this objective would be easy to meet. Cost control is more often a matter of balancing best quality or aesthetic on one hand with affordability and durability on the other. By identifying the Township's expectations regarding quality and character, as well as maintenance capacity early in the inventory and analysis phase, we can meet those expectations through careful selection of materials and development of design details that provide a more durable construction or condition.

In general, we believe that by being cautious and conservative regarding cost information is the best approach to avoid unexpected cost factors. In the subsequent Work Plan, we have described a deliberate process by which the project schedule and costs are initially identified and maintained as the work progresses.

Experience with State & Federal Funding

Experience with State & Federal Funding

The following is a selection of Federal and State-Funded projects with contact information that BRI has completed within the last three years.

BRI can provide additional project references for Federal and State-Funded projects within the last three years upon request.

Petoskey State Park Non-Motorized Trail, 2017 Bid Documents

Contact: Keith Cheli, District Planner, MDNR Parks & Recreation Division, 231.627.4632

City of Petoskey: MNRTF Downtown Greenway South Segment, 2016 Application

Contact: Kendall Klingensmith, Parks and Recreation Director, City of Petoskey
2018 Bid Documents, 231.347.2500

Iron Belle Bridge, 2017 Preliminary Plan for MNRTF Submittal

Contact: Robert Straebel, City Manager, City of Petoskey, 231.347.2500

Onekama Township Langland Park Improvements, 2016 Bid

Contact: Allen Taylor, Onekama Township Planning Commission Vice Chair
Documents and Construction Observation , 231.889.0205

MDNR Torch Lake Boating Access Site

Contact: Annamarie Bauer, Northwest Regional Planner, MDNR Feasibility Study, 231.775.9727

MDNR Whitmore Lake Boating Access Site

Contact: Jan Miller, Project Director, MDTMB, 517.284.7969

MDNR Silver Lake State Park Boating Access Site

Contact: Jan Miller, Project Director, MDTMB and Day Use Improvements, 517.284.7969

Six Points Connectivity Plan

Contact: Scott Bentley, Superintendent, National Parks Service, 34.243.7136



Master Plan illustration detail of Onekama Village Park.

Clinton River Cut-off Boating Access Site

Contact: John Terpstra, Southeast Regional Planner, MDNR Study, 313.396.6864

MDNR General Management Plans:

Cheboygan State Park

Holly State Recreation Area

Belle Isle Park

Watkins Lake State Park & County Preserve

North Higgins Lake State Park

South Higgins Lake State Park

Contact: Debbie Jensen, Park Management Plan Administrator, MDNR, 517.284.6105

Line Item Costs

Line Item Costs

Geotechnical Services:	\$5,225.00
Topographic and Mapping Services:	\$5,115.00
Public Input & Coordination:	\$2,900.00
Design Development Phase Services:	\$7,700.00
Construction Document Phase Services:	\$16,650.00
Bidding & Award Phase Services:	\$3,030.00
<hr/>	
TOTAL NOT TO EXCEED DESIGN SERVICES:	\$40,620.00*

**Fee based upon a percentage of the preliminary construction budget. Should the budget increase by a factor greater than 10%, we reserve the right to discuss additional contract fees.*

Timeline

Timeline

	MONTHS				JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT	
	WEEKS													
TASK														
INVENTORY & ANALYSIS														
Kick-off Meeting and Shedule														
*Site Inventory														
*Topographic Survey & Geotechnical Investigation														
Analysis of Previous Planning														
<i>*dependent upon weather conditions</i>														
DESIGN DEVELOPMENT														
Utility Coordination														
Reconcile Schematic Design														
Horizontal & Vertical Controls														
Develop Trail & Site														
Preliminary Opinion of Cost														
Client Meeting														
CONSTRUCTION DOCUMENT PREPARATION														
Permit Application (preparation & review)														
Construction Plans & Specifications														
50% Review Meetings														
90% Review Meetings														
BIDDING														
Bidding														
Bid Review & Award														



involve

Thank you.

John R. Iacoangeli, AICP, LEED AP, CNU-A
Principal

734.663.2622 | jri@bria2.com

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Environmental Services*



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Now Serving
Michigan, Indiana,
& Ohio!**QUOTATION 1812070102CS**TO: Shawn Winter
Acme Township
6042 Acme Road
Williamsburg, MI 49690
Phone: 231.938.1350DATE: 12/7/18
SUBJECT: Wabash Valley Swing Bench – Opt. 1
QUOTE FIRM: 30 Days
DELIVERY TIME ARO: 4-5 weeks
Email: swinter@acmetownship.org

PRICES QUOTED: USD F.O. B: JOBSITE

TERMS: NET 30 DAYS **WITH APPROVED CREDIT AND WITH PURCHASE ORDER.****NO ORDERS WILL BE PLACED WITHOUT A SIGNED QUOTATION AND/OR PURCHASE ORDER.****ORDERS OVER \$5,000 WILL REQUIRE A SIGNED PURCHASE ORDER BEFORE THEY WILL BE PLACED.**

QUANTITY	ITEM #	DESCRIPTION	TOTAL PRICE
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Wabash Valley – 6' Bench with Round Post

1	SP305R	Specialty Series Swing Bench Seat Only Rib Design	\$ 893.00
1	SP310N	Round Post Package In-ground	\$ 334.00
		Equipment Sub-Total	\$ 1,227.00
		Discount	\$ -90.00
		Freight	\$ 250.00
		Delivered Cost – Net 30 days	\$ 1,387.00

Wabash Valley – 6' Bench with Square Post

1	SP305R	Specialty Series Swing Bench Seat Only Rib Design	\$ 893.00
1	SP320N	6' Square Post Package In-Ground	\$ 816.00
		Equipment Sub-Total	\$ 1,709.00
		Discount	\$ -135.00
		Freight	\$ 340.00
		Delivered Cost – Net 30 days	\$ 1,914.00

Wabash Valley – 4' Bench with Round Post

1	SP300R	Specialty Series Swing Bench Seat Only Rib Design	\$ 753.00
1	SP310N	Round post Package – In-ground	\$ 334.00
		Equipment Sub-Total	\$ 1,087.00
		Discount	\$ -85.00
		Freight	\$ 225.00
		Delivered Cost – Net 30 days	\$ 1,227.00

Wabash Valley – 4' Bench with Square Post

1	SP300R	Specialty Series Swing Bench Seat Only Rib Design	\$ 753.00
1	SP315R	Square Post Package In-ground	\$ 765.00
		Equipment Sub-Total	\$ 1,518.00
		Discount	\$ -120.00
		Freight	\$ 300.00
		Delivered Cost – Net 30 days	\$ 1,698.00

Thank you for the opportunity to provide this quotation.

Signed: Connie Stensrud for Bill Rhodes - brhodes@miraclemidwest.com

Miracle Midwest (800) 722-8546 ext. 2810

PLEASE NOTE THE FOLLOWING:

- ✓ **Sales tax on this quote is only an estimate. Final sales tax will be added to your invoice if a current state sales tax exemption certificate is not on file in our office.**
- ✓ **A Miracle Credit Application may be required and must be completed and returned before your order is placed. If credit is not issued, Cash in Advance is required with order.**
- ✓ **ORDERS OVER \$10,000.00 MAY REQUIRE 50% DEPOSIT BEFORE ORDER IS RELEASED.**
- ✓ **See top of quote for terms.**
- ✓ This quote is to supply the equipment listed above only. Any other contractual requirements/needs are the responsibility of the contractor.
- ✓ PLEASE provide 4-5 sturdy adults or appropriate unloading equipment to unload your equipment
- ✓ Due to fluctuating fuel and steel prices, quotes are valid for only 30 days. After 30 days, cost is only an estimate and actual charges may differ.
- ✓ Price was quoted site unseen, it assumes the site is reasonably flat
- ✓ PLEASE DO NOT INSTALL Safety Surfacing or Edging until AFTER your play equipment has been installed
- ✓ Please add Sales Tax, if appropriate, or fax an **updated** copy of your Tax-Exempt Certificate with Order
- ✓ THIS QUOTE **DOES NOT** INCLUDE:
 - ✓ Equipment, Services, Materials not specifically noted above
 - ✓ Unloading/Storage/Security of equipment
 - ✓ Assembly/Installation of equipment
 - ✓ Site excavation/preparation
 - ✓ Removal of soils/excess excavated materials from site
 - ✓ Safety surface materials/Installation of safety surface materials
 - ✓ Drainage materials/Installation of drainage materials
 - ✓ Accessible route to new play area
 - ✓ Timber/edging/containment border
 - ✓ Supply of new topsoil, seeding, landscaping or site restoration
 - ✓ Demolition, removal/disposal of existing equipment or debris
 - ✓ Any permits, if required
 - ✓ Repair of any utilities/irrigation system not marked by Miss Dig or owner
 - ✓ Testing of soil conditions
 - ✓ Prevailing Wage or union/labor wages
 - ✓ Bid/Performance/Labor/Material Bonds

NOTE: YOUR PLAYGROUND IS NOT ADA COMPLIANT UNLESS YOU HAVE ADA COMPLIANT SAFETY SURFACING. SAFETY SURFACING IS REQUIRED UNDER AND AROUND ALL PLAYGROUND EQUIPMENT.

INSTALLATION PRICES ASSUME NORMAL SOIL CONDITIONS AND DO NOT INCLUDE ROCK EXCAVATION, TREE TRUNK EXCAVATION, ASPHALT OR CONCRETE REMOVAL. IF ANY SUCH MATERIAL IS DISCOVERED AT A PROJECT SITE, A REMOVAL FEE WILL BE ADDED TO THE PROJECT COST.

I hereby authorize Miracle Midwest to ship the equipment listed above for which I agree to pay the total amount specified. I will be responsible for receiving all merchandise from the truck. I agree with the Payment terms listed above. Non-taxable customers will provide proper tax exemption certificate.

THIS QUOTE IS LIMITED TO AND GOVERNED BY THE TERMS CONTAINED HEREIN. Miracle objects to any other terms proposed by Customer, in writing or otherwise, as material alterations, and all such proposed terms shall be void. Customer authorizes Miracle to ship the Equipment and agrees to pay Miracle the total amount specified. Shipping terms are FOB the place of shipment via common carrier designated by Miracle. Payment terms are Net-30 days from invoice date with approved credit and all charges are due and payable in full at PO Box 734154, Dallas, TX 75373-4155, unless notified otherwise by Miracle in writing. Customer agrees to pay all additional service charges for past due invoices. Customer must provide proper tax exemption certificates to Miracle and shall promptly pay and discharge all otherwise

applicable taxes, license fees, levies and other impositions on the Equipment at its own expense. Purchase orders and payments should be made to the order of Miracle Recreation Equipment Company.

**To confirm this order, please sign, complete all information below and fax to us at
517-349-1911 OR email to info@miraclemidwest.com**

Signature _____

Date _____

P.O. to Miracle Recreation Equipment Co.
878 Hwy 60, Monett, MO 65708
(Required for orders over \$5,000)

Print this address on your PO, send quote/P.O. to fax number/email listed above.

PLEASE PROVIDE (NECESSARY FOR ORDER TO BE PLACED):

SHIP TO ADDRESS:

INVOICE TO ADDRESS:

END USER ADDRESS:

DELIVERY

INVOICING

END USER

CONTACT: _____

CONTACT: _____

CONTACT: _____

PHONE #: _____

PHONE #: _____

PHONE #: _____

E-MAIL: _____

E-MAIL: _____

E-MAIL: _____

PLEASE RETURN ALL PAGES OF THIS QUOTE UPON ORDERING

THE FOREGOING QUOTE AND OFFER ARE HEREBY APPROVED AND ACCEPTED BY MIRACLE RECREATION EQUIPMENT COMPANY (dba MIRACLE MIDWEST).

By: _____

Date: _____

This Quote shall not become a binding contract until signed and delivered by both Customer and Miracle Recreation Equipment Company ("Miracle"). Sales Representative is not authorized to sign this Quote on behalf of Miracle or Customer, and signed Quotes cannot be accepted from Sales Representative. To submit this offer, please sign below and forward a complete signed copy of this Quote directly to "Miracle Sales Administration" via fax (417) 235-3551 or email: orders@miraclerec.com. Upon acceptance, Miracle will return a fully-signed copy of the Quote to Customer (with copy to Sales Representative) via fax or email.

THIS QUOTE IS LIMITED TO AND GOVERNED BY THE TERMS CONTAINED HEREIN. Miracle objects to any other terms proposed by Customer, in writing or otherwise, as material alterations, and all such proposed terms shall be void. Customer authorizes Miracle to ship the Equipment and agrees to pay Miracle the total amount specified. Shipping terms are FOB the place of shipment via common carrier designated by Miracle. Payment terms are Net-30 days from invoice date with approved credit and all charges are due and payable in full at PO Box 734154, Dallas, TX 75373-4155, unless notified otherwise by Miracle in writing. Customer agrees to pay all additional service charges for past due invoices. Customer must provide proper tax exemption certificates to Miracle and shall promptly pay and discharge all otherwise applicable taxes, license fees, levies and other impositions on the Equipment at its own expense. Purchase orders and payments should be made to the order of Miracle Recreation Equipment Company.

ADDITIONAL TERMS & CONDITIONS OF SALE

1. Use & Maintenance. Customer agrees to regularly inspect and maintain the Equipment, and to provide, inspect and maintain appropriate safety surfacing under and around the Equipment, in accordance with Miracle's product literature and the most current Consumer Product Safety Commission Handbook for Public Playground Safety.

2. Default, Remedies & Delinquency Charges. Customer's failure to pay any invoice when due, or its failure to otherwise comply with the terms of this Quote, shall constitute a default under all unsatisfied invoices ("Event of Default"). Upon an Event of Default, Miracle shall have all remedies available to it at law or equity, including, without limitation, all remedies afforded a secured creditor under the Uniform Commercial Code. Customer agrees to assist and cooperate with Miracle to accomplish its filing and enforcement of mechanic's or other liens with respect to the Equipment or its location or its repossession of the Equipment, and Customer expressly waives all rights to possess the Equipment after an Event of Default. All remedies are cumulative and not alternative, and no exercise by Miracle of a remedy will prohibit or waive the exercise of any other remedy. Customer shall pay all reasonable attorneys' fees plus any costs of collection incurred by Miracle in enforcing its rights hereunder. Subject to any limitations under law, Customer shall pay to Miracle as liquidated damages, and not as a penalty, an amount equal to 1.5% per month of any payment that is delinquent in such month and is not received by Miracle within ten (10) days after the date on which due.

3. Limitation of Warranty/ Indemnity. MIRACLE MAKES NO EQUIPMENT WARRANTIES EXCEPT FOR THOSE STANDARD WARRANTIES ISSUED WITH THE EQUIPMENT, WHICH ARE INCORPORATED HEREIN BY THIS REFERENCE. MIRACLE SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND ANY LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. CUSTOMER AGREES TO DEFEND, INDEMNIFY AND SAVE MIRACLE HARMLESS FROM ALL CLAIMS OF ANY KIND FOR DAMAGES OF ANY KIND ARISING OUT OF CUSTOMER'S ALTERATION OF THE EQUIPMENT, ITS FAILURE TO MAINTAIN THE

EQUIPMENT, ITS FAILURE TO PROPERLY SUPERVISE EQUIPMENT USE, OR ITS FAILURE TO PROVIDE AND MAINTAIN APPROPRIATE TYPES AND DEPTHS OF SAFETY SURFACING BENEATH AND AROUND THE EQUIPMENT IN ACCORDANCE WITH MIRACLE'S INSTALLATION AND OWNER'S MANUALS AND THE MOST CURRENT CONSUMER PRODUCT SAFETY COMMISSION HANDBOOK FOR PUBLIC PLAYGROUND SAFETY.

4. Restrictions. Until all amounts due hereunder are paid in full, Customer shall not: (i) permit the Equipment to be levied upon or attached under any legal process; (ii) transfer title to the Equipment or any of Customer's rights therein; or (iii) remove or permit the removal of the Equipment to any location not specified in this Quote.

5. Purchase Money Security Interest. Customer hereby grants, pledges and assigns to Miracle, and Miracle hereby reserves a purchase money security interest in, the Equipment in order to secure the payment and performance in full of all of Customer's obligations hereunder. Customer agrees that Miracle may file one or more financing statements, in order to allow it to perfect, acquire and maintain a superior security interest in the Equipment.

6. Choice of Law and Jurisdiction. All agreements between Customer and Miracle shall be interpreted, and the parties' obligations shall be governed, by the laws of the State of Missouri without reference to its choice of law provisions. Customer hereby consents to the personal jurisdiction of the state and federal courts located in the city and county of St. Louis, Missouri.

7. Title; Risk of Loss; Insurance. Miracle Retains full title to all Equipment until full payment is received by Miracle. Customer assumes all risk of loss or destruction of or damage to the Equipment by reason of theft, fire, water, or any other cause, and the occurrence of any such casualty shall not relieve the Customer from its obligations hereunder and under any invoices. Until all amounts due hereunder are paid in full, Customer shall insure the Equipment against all such losses and casualties.

8. Waiver; Invalidity. Miracle may waive a default hereunder, or under any invoice or other agreement between Customer and Miracle, or cure such a default at Customer's expense, but shall have no obligation to do either. No waiver shall be deemed to have taken place unless it is in writing, signed by Miracle. Any one waiver shall not constitute a waiver of other defaults or the same kind of default at another time, or a forfeiture of any rights provided to Miracle hereunder or under any invoice. The invalidity of any portion of this Quote shall not affect the force and effect of the remaining valid portions hereof.

9. Entire Agreement; Amendment; Binding Nature. This fully-executed Quote, as supplemented by Change Orders and invoices containing exact amounts of estimates provided herein, constitutes the complete and exclusive agreement between the parties. A Change Order is a written instrument signed by the Customer and Miracle stating their agreement as to any amendment in the terms of this Quote. Customer acknowledges that Change Orders may result in delays and additional costs. The parties agree that all Change Orders shall include appropriate adjustments in price and time frames relating to any requested amendments. Upon full execution, this Quote shall be binding upon and inure to the benefit of the parties and their successors and assigns.

10. Counterparts; Electronic Transmission. This Quote, any invoice, and any other agreement between the parties, may be executed in counterparts, each of which shall constitute an original. The facsimile or other electronic transmission of any signed original document, and retransmission of any signed facsimile or other electronic transmission, shall be the same as the transmission of an original. At the request of either party, the parties will confirm facsimile or other electronically transmitted signatures by signing an original document.

Please return all pages of this quote upon ordering.

Thank You!





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Now Serving
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& Ohio!**QUOTATION 1812070102CS**

TO: Shawn Winter
Acme Township
6042 Acme Road
Williamsburg, MI 49690
Phone: 231.938.1350

DATE: 12/7/18
SUBJECT: Wabash Valley Swing Bench – Opt 2
QUOTE FIRM: 30 Days
DELIVERY TIME ARO: 4-5 weeks
Email: swinter@acmetownship.org

PRICES QUOTED: USD F.O. B: JOBSITE

TERMS: NET 30 DAYS **WITH APPROVED CREDIT** AND WITH PURCHASE ORDER.**NO ORDERS WILL BE PLACED WITHOUT A SIGNED QUOTATION AND/OR PURCHASE ORDER.****ORDERS OVER \$5,000 WILL REQUIRE A SIGNED PURCHASE ORDER BEFORE THEY WILL BE PLACED.**

QUANTITY	ITEM #	DESCRIPTION	TOTAL PRICE
<u>Wabash Valley – 6' Bench with Round Post</u>			
2	SP305R	Specialty Series Swing Bench Seat Only Rib Design	\$ 1,786.00
2	SP310N	Round Post Package In-ground	\$ 668.00
		Equipment Sub-Total	\$ 2,454.00
		Discount	\$ -195.00
		Freight	\$ 400.00
		Delivered Cost – Net 30 days	\$ 2,659.00
<u>Wabash Valley – 6' Bench with Square Post</u>			
2	SP305R	Specialty Series Swing Bench Seat Only Rib Design	\$ 1,786.00
2	SP320N	6' Square Post Package In-Ground	\$ 1,632.00
		Equipment Sub-Total	\$ 3,418.00
		Discount	\$ -270.00
		Freight	\$ 525.00
		Delivered Cost – Net 30 days	\$ 3,673.00
<u>Wabash Valley – 4' Bench with Round Post</u>			
2	SP300R	Specialty Series Swing Bench Seat Only Rib Design	\$ 1,506.00
2	SP310N	Round post Package – In-ground	\$ 668.00
		Equipment Sub-Total	\$ 2,174.00
		Discount	\$ -220.00
		Freight	\$ 350.00
		Delivered Cost – Net 30 days	\$ 2,304.00
<u>Wabash Valley – 4' Bench with Square Post</u>			
2	SP300R	Specialty Series Swing Bench Seat Only Rib Design	\$ 1,506.00
2	SP315R	Square Post Package In-ground	\$ 1,530.00
		Equipment Sub-Total	\$ 3,036.00
		Discount	\$ -240.00
		Freight	\$ 475.00
		Delivered Cost – Net 30 days	\$ 3,271.00

Thank you for the opportunity to provide this quotation.

Signed: Connie Stensrud for Bill Rhodes - brhodes@miraclemidwest.com

Miracle Midwest (800) 722-8546 ext. 2810

PLEASE NOTE THE FOLLOWING:

- ✓ Sales tax on this quote is only an estimate. Final sales tax will be added to your invoice if a current state sales tax exemption certificate is not on file in our office.
- ✓ A Miracle Credit Application may be required and must be completed and returned before your order is placed. If credit is not issued, Cash in Advance is required with order.
- ✓ ORDERS OVER \$10,000.00 MAY REQUIRE 50% DEPOSIT BEFORE ORDER IS RELEASED.
- ✓ See top of quote for terms.
- ✓ This quote is to supply the equipment listed above only. Any other contractual requirements/needs are the responsibility of the contractor.
- ✓ PLEASE provide 4-5 sturdy adults or appropriate unloading equipment to unload your equipment
- ✓ Due to fluctuating fuel and steel prices, quotes are valid for only 30 days. After 30 days, cost is only an estimate and actual charges may differ.
- ✓ Price was quoted site unseen, it assumes the site is reasonably flat
- ✓ PLEASE DO NOT INSTALL Safety Surfacing or Edging until AFTER your play equipment has been installed
- ✓ Please add Sales Tax, if appropriate, or fax an **updated** copy of your Tax-Exempt Certificate with Order
- ✓ THIS QUOTE **DOES NOT** INCLUDE:
 - ✓ Equipment, Services, Materials not specifically noted above
 - ✓ Unloading/Storage/Security of equipment
 - ✓ Assembly/Installation of equipment
 - ✓ Site excavation/preparation
 - ✓ Removal of soils/excess excavated materials from site
 - ✓ Supply of new topsoil, seeding, landscaping or site restoration
 - ✓ Demolition, removal/disposal of existing equipment or debris
 - ✓ Any permits, if required
 - ✓ Repair of any utilities/irrigation system not marked by Miss Dig or owner
 - ✓ Testing of soil conditions

INSTALLATION PRICES ASSUME NORMAL SOIL CONDITIONS AND DO NOT INCLUDE ROCK EXCAVATION, TREE TRUNK EXCAVATION, ASPHALT OR CONCRETE REMOVAL. IF ANY SUCH MATERIAL IS DISCOVERED AT A PROJECT SITE, A REMOVAL FEE WILL BE ADDED TO THE PROJECT COST.

I hereby authorize Miracle Midwest to ship the equipment listed above for which I agree to pay the total amount specified. I will be responsible for receiving all merchandise from the truck. I agree with the Payment terms listed above. Non-taxable customers will provide proper tax exemption certificate.

THIS QUOTE IS LIMITED TO AND GOVERNED BY THE TERMS CONTAINED HEREIN. Miracle objects to any other terms proposed by Customer, in writing or otherwise, as material alterations, and all such proposed terms shall be void. Customer authorizes Miracle to ship the Equipment and agrees to pay Miracle the total amount specified. Shipping terms are FOB the place of shipment via common carrier designated by Miracle. Payment terms are Net-30 days from invoice date with approved credit and all charges are due and payable in full at PO Box 734154, Dallas, TX 75373-4155, unless notified otherwise by Miracle in writing. Customer agrees to pay all additional service charges for past due invoices. Customer must provide proper tax exemption certificates to Miracle and shall promptly pay and discharge all otherwise applicable taxes, license fees, levies and other impositions on the Equipment at its own expense. Purchase orders and payments should be made to the order of Miracle Recreation Equipment Company.

**To confirm this order, please sign, complete all information below and fax to us at
517-349-1911 OR email to info@miraclemidwest.com**

Signature _____

Date _____

P.O. to Miracle Recreation Equipment Co.
878 Hwy 60, Monett, MO 65708
(Required for orders over \$5,000)

Print this address on your PO, send quote/P.O. to fax number/email listed above.

PLEASE PROVIDE (NECESSARY FOR ORDER TO BE PLACED):

SHIP TO ADDRESS:

INVOICE TO ADDRESS:

END USER ADDRESS:

DELIVERY

INVOICING

END USER

CONTACT: _____

CONTACT: _____

CONTACT: _____

PHONE #: _____

PHONE #: _____

PHONE #: _____

E-MAIL: _____

E-MAIL: _____

E-MAIL: _____

PLEASE RETURN ALL PAGES OF THIS QUOTE UPON ORDERING

THE FOREGOING QUOTE AND OFFER ARE HEREBY APPROVED AND ACCEPTED BY MIRACLE RECREATION EQUIPMENT COMPANY (dba MIRACLE MIDWEST).

By: _____

Date: _____

This Quote shall not become a binding contract until signed and delivered by both Customer and Miracle Recreation Equipment Company ("Miracle"). Sales Representative is not authorized to sign this Quote on behalf of Miracle or Customer, and signed Quotes cannot be accepted from Sales Representative. To submit this offer, please sign below and forward a complete signed copy of this Quote directly to "Miracle Sales Administration" via fax (417) 235-3551 or email: orders@miraclerec.com. Upon acceptance, Miracle will return a fully-signed copy of the Quote to Customer (with copy to Sales Representative) via fax or email.

THIS QUOTE IS LIMITED TO AND GOVERNED BY THE TERMS CONTAINED HEREIN. Miracle objects to any other terms proposed by Customer, in writing or otherwise, as material alterations, and all such proposed terms shall be void. Customer authorizes Miracle to ship the Equipment and agrees to pay Miracle the total amount specified. Shipping terms are FOB the place of shipment via common carrier designated by Miracle. Payment terms are Net-30 days from invoice date with approved credit and all charges are due and payable in full at PO Box 734154, Dallas, TX 75373-4155, unless notified otherwise by Miracle in writing. Customer agrees to pay all additional service charges for past due invoices. Customer must provide proper tax exemption certificates to Miracle and shall promptly pay and discharge all otherwise applicable taxes, license fees, levies and other impositions on the Equipment at its own expense. Purchase orders and payments should be made to the order of Miracle Recreation Equipment Company.

ADDITIONAL TERMS & CONDITIONS OF SALE

1. Use & Maintenance. Customer agrees to regularly inspect and maintain the Equipment, and to provide, inspect and maintain appropriate safety surfacing under and around the Equipment, in accordance with Miracle's product literature and the most current Consumer Product Safety Commission Handbook for Public Playground Safety.

2. Default, Remedies & Delinquency Charges. Customer's failure to pay any invoice when due, or its failure to otherwise comply with the terms of this Quote, shall constitute a default under all unsatisfied invoices ("Event of Default"). Upon an Event of Default, Miracle shall have all remedies available to it at law or equity, including, without limitation, all remedies afforded a secured creditor under the Uniform Commercial Code. Customer agrees to assist and cooperate with Miracle to accomplish its filing and enforcement of mechanic's or other liens with respect to the Equipment or its location or its repossession of the Equipment, and Customer expressly waives all rights to possess the Equipment after an Event of Default. All remedies are cumulative and not alternative, and no exercise by Miracle of a remedy will prohibit or waive the exercise of any other remedy. Customer shall pay all reasonable attorneys' fees plus any costs of collection incurred by Miracle in enforcing its rights hereunder. Subject to any limitations under law, Customer shall pay to Miracle as liquidated damages, and not as a penalty, an amount equal to 1.5% per month of any payment that is delinquent in such month and is not received by Miracle within ten (10) days after the date on which due.

3. Limitation of Warranty/ Indemnity. MIRACLE MAKES NO EQUIPMENT WARRANTIES EXCEPT FOR THOSE STANDARD WARRANTIES ISSUED WITH THE EQUIPMENT, WHICH ARE INCORPORATED HEREIN BY THIS REFERENCE. MIRACLE SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND ANY LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. CUSTOMER AGREES TO DEFEND, INDEMNIFY AND SAVE MIRACLE HARMLESS FROM ALL CLAIMS OF ANY KIND FOR DAMAGES OF ANY KIND ARISING OUT OF CUSTOMER'S ALTERATION OF THE EQUIPMENT, ITS FAILURE TO MAINTAIN THE EQUIPMENT, ITS FAILURE TO PROPERLY SUPERVISE EQUIPMENT USE, OR ITS FAILURE TO PROVIDE AND MAINTAIN APPROPRIATE TYPES AND DEPTHS OF SAFETY SURFACING BENEATH AND AROUND THE EQUIPMENT IN ACCORDANCE WITH MIRACLE'S INSTALLATION AND OWNER'S MANUALS AND THE MOST CURRENT CONSUMER PRODUCT SAFETY COMMISSION HANDBOOK FOR PUBLIC PLAYGROUND SAFETY.

4. Restrictions. Until all amounts due hereunder are paid in full, Customer shall not: (i) permit the Equipment to be levied upon or attached under any legal process; (ii) transfer title to the Equipment or any of Customer's rights therein; or (iii) remove or permit the removal of the Equipment to any location not specified in this Quote.

5. Purchase Money Security Interest. Customer hereby grants, pledges and assigns to Miracle, and Miracle hereby reserves a purchase money security interest in, the Equipment in order to secure the payment and performance in full of all of Customer's obligations hereunder. Customer agrees that Miracle may file one or more financing statements, in order to allow it to perfect, acquire and maintain a superior security interest in the Equipment.

6. Choice of Law and Jurisdiction. All agreements between Customer and Miracle shall be interpreted, and the parties' obligations shall be governed, by the laws of the State of Missouri without reference to its choice of law provisions. Customer hereby consents to the personal jurisdiction of the state and federal courts located in the city and county of St. Louis, Missouri.

7. Title; Risk of Loss; Insurance. Miracle Retains full title to all Equipment until full payment is received by Miracle. Customer assumes all risk of loss or destruction of or damage to the Equipment by reason of theft, fire, water, or any other cause, and the occurrence of any such casualty shall not relieve the Customer from its obligations hereunder and under any invoices. Until all amounts due hereunder are paid in full, Customer shall insure the Equipment against all such losses and casualties.

8. Waiver; Invalidity. Miracle may waive a default hereunder, or under any invoice or other agreement between Customer and Miracle, or cure such a default at Customer's expense, but shall have no obligation to do either. No waiver shall be deemed to have taken place unless it is in writing, signed by Miracle. Any one waiver shall not constitute a waiver of other defaults or the same kind of default at another time, or a forfeiture of any rights provided to Miracle hereunder or under any invoice. The invalidity of any portion of this Quote shall not affect the force and effect of the remaining valid portions hereof.

9. Entire Agreement; Amendment; Binding Nature. This fully-executed Quote, as supplemented by Change Orders and invoices containing exact amounts of estimates provided herein, constitutes the complete and exclusive agreement between the parties. A Change Order is a written instrument signed by the Customer and Miracle stating their agreement as to any amendment in the terms of this Quote. Customer acknowledges that Change Orders may result in delays and additional costs. The parties agree that all Change Orders shall include appropriate adjustments in price and time frames relating to any requested amendments. Upon full execution, this Quote shall be binding upon and inure to the benefit of the parties and their successors and assigns.

10. Counterparts; Electronic Transmission. This Quote, any invoice, and any other agreement between the parties, may be executed in counterparts, each of which shall constitute an original. The facsimile or other electronic transmission of any signed original document, and retransmission of any signed facsimile or other electronic transmission, shall be the same as the transmission of an original. At the request of either party, the parties will confirm facsimile or other electronically transmitted signatures by signing an original document.

Please return all pages of this quote upon ordering.

Thank You!



To: Acme Township Parks & Trails Committee; December 21, 2018
From: Jean Aukerman

Subject: Review of Physical Color Samples for UA Playground's Net Climber and Companion Pieces -- Per Committee's Request

A. Revisiting Gosling-Czubak's Selected Firms for Amenities, and Vision for How Colors Should Work Together

1. Three firms initially selected by Gosling-Czubak

- LSI: Landscape Structures Inc. - UA Playground equipment
- Landscape Forms - Benches, receptacles
- Most Dependable Fountains - UA Drinking fountains, footwash station

2. A fourth firm was added on October 19, 2018

- Wabash Valley - "Swing" donation by Linda Kaleita in memory of her deceased husband, Phil Weeks

3. Gosling-Czubak's initial vision summarized per Kevin Krogulecki on Oct 23, 2018:

- Color theme for park (Playground; benches; lighting; drinking fountain; etc) is *harmonious neutrals*: greens, browns, charcoal grays/black.
- "White," though on the initial concept pdf, is no longer intended as a choice/color theme.
- Kevin said because 3 different firms are involved, the objective is to have items that, when blended together, are toned down -- more dark than light -- and they don't stand out.
- The focus is "the water" -- not the fixtures.

B. Gosling-Czubak's Color Recommendations to Achieve "Harmonious Neutrals" Color Theme

Item	Supplier	Color	Comments
- Eclipse Net Climber	LSI: Landscape Structures Inc.	Two arches: "Limon" Connector balls: "Brown" Climbing net: Black	Would serve as first, core piece of new UA playground. See physical color swatches.
- Play surface ("safety surface")	Purchased through LSI	"Brown and Tan"	No color swatches at this time.
- Companion play pieces	LSI	"Brown, Tan, Leaf"	See physical color swatches.
- Park benches	Landscape Forms	"Grass"	Already purchased. See color swatch.
- Receptacles	Landscape Forms	"Mercury"	Already purchased. No color swatch.
- UA drinking fountains - Footwash station	Most Dependable Fountains	"Brown" Note: Confirm with Gosling-Czubak	No physical color swatch at this time.



Planning and Zoning

6042 Acme Road | Williamsburg, MI | 49690

Phone: (231) 938-1350 Fax: (231) 938-1510 Web: www.acmetownship.org

PARKS & TRAILS COMMITTEE

2019 Regular Meeting Schedule

The Parks & Trails Committee meets the third Friday of each month at 8:30 am.

Acme Township Hall
6042 Acme Rd
Williamsburg, MI 49690

Meeting Dates
January 18
February 15
March 15
April 19
May 17
June 21
July 19
August 16
September 20
October 18
November 15
December 20

If you are planning to attend and require any special assistance, please notify Cathy Dye, Township Clerk, within 24 hours of the meeting at (231) 938-1350 or cdye@acmetownship.org

For planning and zoning questions please contact Shawn Winter, Planning and Zoning Administrator, at (231) 938-1350 or swinter@acmetownship.org