

City of Appleton

100 North Appleton Street Appleton, WI 54911-4799 www.appleton.org

Meeting Agenda - Final Common Council

Wednesday, January 18, 2017	7:00 PM	Council Chambers
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- A. CALL TO ORDER
- B. INVOCATION
- C. PLEDGE OF ALLEGIANCE TO THE FLAG
- D. ROLL CALL OF ALDERPERSONS
- E. ROLL CALL OF OFFICERS AND DEPARTMENT HEADS
- F. PUBLIC PARTICIPATION
- G. APPROVAL OF PREVIOUS COUNCIL MEETING MINUTES

17-075 Approval of Common Council Meeting Minutes from January 4, 2017

Attachments: CC Minutes 1-4-17.pdf

- H. BUSINESS PRESENTED BY THE MAYOR
 - 17-074 Appointment of Kelly Sperl to the Board of Zoning Appeals

Attachments: Zoning Appeals Appt Memo 011317.pdf

- I. PUBLIC HEARINGS
- J. SPECIAL RESOLUTIONS
- K. ESTABLISH ORDER OF THE DAY
- L. COMMITTEE REPORTS
- 1. MINUTES OF THE MUNICIPAL SERVICES COMMITTEE

<u>17-033</u> Approve 2017 Sole Source Purchasing Request for various traffic equipment and technologies.

Attachments: 2017 Sole Source Purchasing Request.pdf

Award of Contract for engineering services for Bridge Rehibilitation Reports to Collins Engineers, in an amount not to exceed \$26,096.81.

Attachments: Contract for Bridge Rehabilitation Reports to Collins Engineers.pdf

2. MINUTES OF THE SAFETY AND LICENSING COMMITTEE

16-1520 Revised Special Event Policy

Attachments: Special Event Policy 9-23-16.pdf

Special Event Policy - Jan. 2010.pdf Special Events Expense 2015.pdf

Special Event Policy Update Memo to S&L.pdf
Special Event Policy 9-23-16 Redlined.pdf
Special Event Policy (edited 1-3-17) (3).pdf

Legislative History

9/28/16 Safety and Licensing recommended for approval

Committee

10/5/16 Common Council referred to the Safety and Licensing

Committee

Alderperson Konetzke referred this item back to the Safety & Licensing

Committee.

10/12/16 Safety and Licensing held

Committee

The following spoke regarding the Policy: Jennifer Stephany, Appleton Downtown Inc. Dave Willems, Dave Willems Marketing

Amy Flanders, Fox Cities Chamber of Commerce

1/11/17 Safety and Licensing recommended for approval

Committee

Motion by Konetzke, seconded by Meltzer to Amend the Special Events Policy so that section B. Safety, 1. Security reads: Events must have a designated head of security and 'may be required to have' additional security personnel at the rate of one (1) security person for every 300 persons present if alcohol is available for consumption or for every 600 person present if alcohol is not available for consumption.

Roll Call. The Motion to amend passes 4/0.

Secondhand Jewelry License Renewal application of AE Jewelers, Inc., Richard L. Meyer, Applicant, 3545 E. Calumet St., contingent upon approval from all departments.

Legislative History

	1/11/17	Safety and Licensing Committee	recommended for approval			
<u>16-1973</u>	Secondhand Article Dealer License Renewal application of Scooter G Sports LLC, Scott A. Gonnering, Applicant, 621 W. Northland Ave., contingent upon approval from all departments.					
	Legislative His	<u>tory</u>				
	1/11/17	Safety and Licensing Committee	recommended for approval			
<u>16-1978</u>		Applicant, 308 E. College A	ipplication of Heid Music, Kristin ve., contingent upon approval			
	Legislative His	tory_				
	1/11/17	Safety and Licensing Committee	recommended for approval			
<u>16-1979</u>	Troy Crawfo		application of Game Stop #5520, amet St. #500, contingent upon			
	Legislative His	tory_				
	1/11/17	Safety and Licensing Committee	recommended for approval			
<u>16-1980</u>	Troy Crawfo	d Article License Renewal a ord, Applicant, 2640 W. Coll m all departments.	application of Game Stop #3349, ege Ave., contingent upon			
	Legislative His	<u>tory</u>				
	1/11/17	Safety and Licensing Committee	recommended for approval			
<u>16-1981</u>	John J. Stei	d Article License Renewal a udel, Applicant, 502 W. Coll m all departments.	application of Side Quest Gaming, ege Ave., contingent upon			
	Legislative His	<u>tory</u>				
	1/11/17	Safety and Licensing Committee	recommended for approval			
<u>16-1982</u>	Operator's L	Licenses				
	<u>Attachments</u>	Operator's Licenses for 01-11-	17 S & L.pdf			
	Legislative His	tory				
	1/11/17	Safety and Licensing Committee	recommended for approval			

Secondhand Article License Renewal application of Appleton Appliance Parts, Robert H. Caston, Applicant, 136 N. State St., contingent upon approval from all departments.

Legislative History

1/11/17 Safety and Licensing recommended for approval

Committee

16-1984 Secondhand Article License Renewal application of Richmond Resale, Dean M. Vandenhoy, Applicant, 204 N. Richmond St., contingent upon approval from all departments.

Legislative History

1/11/17 Safety and Licensing recommended for approval

Committee

"Class B" Beer/Liquor License application of Harvath LLC, d/b/a The Wishing Well, Terrill J. Harvath, Agent, 2709 E. Newberry St., contingent upon approval from all departments.

Attachments: The Wishing Well application.pdf

Legislative History

1/11/17 Safety and Licensing recommended for approval

Committee

<u>17-002</u> Secondhand Jewelry License Renewal application of Kay Jewelers #4739, Megan L. Stepniewski, Applicant, 3845 E. Calumet St., contingent upon approval from all departments.

Legislative History

1/11/17 Safety and Licensing recommended for approval

Committee

17-040 Request Approval to Purchase the Replacement Pickup Truck.

Attachments: Memo Requesting Purchase of 2017 Ford F350.pdf

Legislative History

1/11/17 Safety and Licensing recommended for approval

Committee

17-041 Request the Approval of the Sole Source Purchase from Fire Apparatus & Equipment and the Ordering of Four Replacement Firetrucks in Advance for Future Delivery and Payment (this item also appears on the Finance Committee Agenda).

<u>Attachments:</u> Memo Requesting Sole Source Purchase and Ordering of Fire Apparatus for Cc

Legislative History

1/11/17 Safety and Licensing

Committee

recommended for approval

3. MINUTES OF THE CITY PLAN COMMISSION

16-1757 Resolution #11-R-16 - Alderperson Siebers

Whereas the R3 and CBD zoning of the 200 block of North Fair Street does not reflect the present usage of the properties along this street Whereas the zoning of the properties of the 200 block of North Fair Street was done by the City in 1994, likely in hope that it would generate future development reflective of the zoning

Whereas no development on this block has taken place since the rezoning and those who own houses on this block, along with their alderperson, are not aware of any possible development pending in the near future

Whereas the property owners on the 200 block of North Fair Street desire that their properties be properly zoned according to their usage Therefore, be it resolved, that the zoning of the properties in the 200 block of North Fair Street reflect the present usage of said properties. Be it further resolved, that the Community & Economic Development Department identify other areas similar to the 200 block of North Fair Street, as it pertains to zoning, and if it is the desire of the property owners, properly zone these properties according to their usage.

Referred to the City Plan Commission

Attachments: Staff Report Resolution #11-R-16 Siebers 2016.pdf

Legislative History

11/7/16 City Plan Commission referred

City Plan Commission referred to staff.

1/9/17 City Plan Commission recommended for denial

17-007 Request to approve Extraterritorial Final Plat for White Hawk Meadows North 3 located in the Town of Grand Chute as shown on the attached

maps

Attachments: StaffReport WhiteHawkMeadowsNorth3 ExtraFinalPlat.pdf

Legislative History

1/9/17 City Plan Commission recommended for approval

17-008 Request to approve Extraterritorial Final Plat for Edgewood Acres Third

Addition in the Town of Grand Chute as shown on the attached maps

<u>Attachments:</u> StaffReport_EdgewoodAcresThirdAddn_FinalPlat_For01-09-17.pdf

Legislative History

1/9/17 City Plan Commission recommended for approval

4. MINUTES OF THE PARKS AND RECREATION COMMITTEE

16-1923 Action: Request Approval of Trails Master Plan

<u>Attachments:</u> Trails Master Plan Memo to Park and Rec Committee.docx

Appleton Trails Master Plan FinalReport 2017 01 04.pdf

AppletonTrailsMasterPlan FinalReport Appendices 2016-11-08-16 sm.pdf

Legislative History

12/12/16 Parks and Recreation held

Committee

Held until the January 9, 2017 Parks & Recreation Committee Meeting

1/9/17 Parks and Recreation recommended for approval

Committee

5. MINUTES OF THE FINANCE COMMITTEE

17-035 Request to award Unit I-17 CTH "JJ" and Lightning Drive Sewer & Water Main Construction to Vinton Construction Co. in the amount of \$224,134.50 with a 10% contingency of \$22,413.45 for a project total not to exceed \$246,547.95.

Attachments: Award of Contract I-17.pdf

17-039 Request the approval of the sole source purchase from Fire Apparatus & Equipment and the ordering of four replacement fire trucks in advance for future delivery and payment (this item also appears on the Safety and Licensing Committee agenda).

Attachments: Sole Source Purchase and Ordering of Fire Apparatus for Cost Savings.pdf

6. MINUTES OF THE COMMUNITY AND ECONOMIC DEVELOPMENT COMMITTEE

17-015 Request to approve the Cooperation Agreement between the City of Appleton and the Appleton Redevelopment Authority

Attachments: City and ARA Cooperative Agreement 1-5-17.pdf

Legislative History

1/11/17 Community & Economic recommended for approval

Development Committee

7. MINUTES OF THE UTILITIES COMMITTEE

8. MINUTES OF THE HUMAN RESOURCES & INFORMATION TECHNOLOGY COMMITTEE

17-049 Request to approve Health Department to change the current Public Health Preparedness Coordinator position from a 1.0 FTE to .75 FTE.

Attachments: Health Prepardness change memo.pdf

Legislative History

1/9/17 Human Resources & recommended for approval

Information Technology

Committee

9. MINUTES OF THE FOX CITIES TRANSIT COMMISSION

10. MINUTES OF THE BOARD OF HEALTH

M. CONSOLIDATED ACTION ITEMS

17-041 Request the Approval of the Sole Source Purchase from Fire Apparatus & Equipment and the Ordering of Four Replacement Firetrucks in Advance for Future Delivery and Payment (this item also appears on the Finance Committee Agenda).

Attachments: Memo Requesting Sole Source Purchase and Ordering of Fire Apparatus for Cc

Legislative History

1/11/17 Safety and Licensing recommended for approval

Committee

17-039 Request the approval of the sole source purchase from Fire Apparatus & Equipment and the ordering of four replacement fire trucks in advance for future delivery and payment (this item also appears on the Safety and Licensing Committee agenda).

Attachments: Sole Source Purchase and Ordering of Fire Apparatus for Cost Savings.pdf

- N. ITEMS HELD
- O. ORDINANCES
- P. LICENSE APPLICATIONS AND COMMUNICATIONS REFERRED TO COMMITTEES OF JURISDICTION
- Q. RESOLUTIONS SUBMITTED BY ALDERPERSONS REFERRED TO COMMITTEES OF JURISDICTION
- R. OTHER COUNCIL BUSINESS

S. ADJOURN

Kami Lynch, City Clerk

Reasonable accommodations for persons with disabilities will be made upon request and if feasible.



City of Appleton

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Meeting Minutes - Final Common Council

Wednesday, January 4, 2017 7:00 PM Council Chambers

A. CALL TO ORDER

The meeting was called to order by Mayor Hanna at 7:00 p.m.

B. INVOCATION

The Invocation was offered by Alderperson Meltzer.

- C. PLEDGE OF ALLEGIANCE TO THE FLAG
- D. ROLL CALL OF ALDERPERSONS

Present: 15 - Alderperson Kathleen Plank, Alderperson William Siebers, Alderperson

Curt Konetzke, Alderperson Ed Baranowski, Alderperson Margret Mann, Alderperson Patti Coenen, Alderperson Kyle Lobner, Alderperson Jeffrey

Jirschele, Alderperson Matt Reed, Alderperson Vered Meltzer,

Alderperson Joe Martin, Alderperson Greg Dannecker, Alderperson Cathy

Spears, Alderperson Chris Croatt and Mayor Timothy Hanna

Excused: 1 - Alderperson Christine Williams

E. ROLL CALL OF OFFICERS AND DEPARTMENT HEADS

City Clerk Lynch, City Attorney Walsh, Deputy City Attorney Behrens, Fire Chief Vander Wyst, Police Chief Thomas, Director of Public Works Vandehey, Director of Utilities Shaw, Vallety Transit General Manager Mc Donald

The following were excused:

Director of Community & Economic Development Harkness, Director of Finance Saucerman, Health Officer Eggebrecht, Director of Human Resources Behnke, Director of Parks, Recreation & Facilities Gazza, Director of Information Technology Fox, Library Director Rortvedt

F. PUBLIC PARTICIPATION

None.

G. APPROVAL OF PREVIOUS COUNCIL MEETING MINUTES

16-1992 Common Council meeting minutes of December 21, 2016

Attachments: CC Minutes 12-21-2016.pdf

Alderperson Baranowski moved, seconded by Alderperson Lobner, that the Minutes be approved. Roll Call. Motion carried by the following vote:

Aye: 14 - Alderperson Kathleen Plank, Alderperson William Siebers, Alderperson Curt Konetzke, Alderperson Ed Baranowski, Alderperson Margret Mann, Alderperson Patti Coenen, Alderperson Kyle Lobner, Alderperson Jeffrey Jirschele, Alderperson Matt Reed, Alderperson Vered Meltzer,

Alderperson Joe Martin, Alderperson Greg Dannecker, Alderperson Cathy

Spears and Alderperson Chris Croatt

Excused: 1 - Alderperson Christine Williams

Abstained: 1 - Mayor Timothy Hanna

- H BUSINESS PRESENTED BY THE MAYOR
- I. PUBLIC HEARINGS
- J. SPECIAL RESOLUTIONS
- K. ESTABLISH ORDER OF THE DAY
- L. COMMITTEE REPORTS
- 1. MINUTES OF THE MUNICIPAL SERVICES COMMITTEE
- 2. MINUTES OF THE SAFETY AND LICENSING COMMITTEE
- 3. MINUTES OF THE CITY PLAN COMMISSION
- 4. MINUTES OF THE PARKS AND RECREATION COMMITTEE
- 5. MINUTES OF THE FINANCE COMMITTEE
- 6. MINUTES OF THE COMMUNITY AND ECONOMIC DEVELOPMENT COMMITTEE
- 7. MINUTES OF THE UTILITIES COMMITTEE

- 8. MINUTES OF THE HUMAN RESOURCES & INFORMATION TECHNOLOGY COMMITTEE
- 9. MINUTES OF THE FOX CITIES TRANSIT COMMISSION
- 10. MINUTES OF THE BOARD OF HEALTH
- M. CONSOLIDATED ACTION ITEMS
- N. ITEMS HELD
- O. ORDINANCES

<u>16-1985</u> Ordinances 1-17 through 17-17

<u>Attachments:</u> Ordinances going to Council 1-4-17.pdf

Alderperson Baranowski moved, seconded by Alderperson Dannecker, that the Ordinances be approved. Roll Call. Motion carried by the following vote:

Aye: 14 - Alderperson Kathleen Plank, Alderperson William Siebers, Alderperson

Curt Konetzke, Alderperson Ed Baranowski, Alderperson Margret Mann, Alderperson Patti Coenen, Alderperson Kyle Lobner, Alderperson Jeffrey

Jirschele, Alderperson Matt Reed, Alderperson Vered Meltzer,

Alderperson Joe Martin, Alderperson Greg Dannecker, Alderperson Cathy

Spears and Alderperson Chris Croatt

Excused: 1 - Alderperson Christine Williams

Abstained: 1 - Mayor Timothy Hanna

- P. LICENSE APPLICATIONS AND COMMUNICATIONS REFERRED TO COMMITTEES OF JURISDICTION
- Q. RESOLUTIONS SUBMITTED BY ALDERPERSONS REFERRED TO COMMITTEES OF JURISDICTION
- R. OTHER COUNCIL BUSINESS
- S. CLOSED SESSION

The Common Council may convene in closed session pursuant to State Statute §19.85(1)(e) for the purpose of deliberating the purchasing of public properties and/or the investing of public funds in certain property located in downtown Appleton and then will reconvene in open session.

Alderperson Baranowski moved, seconded by Alderperson Martin, that the Common Council convene into closed session at 7:06 p.m.. Roll Call. Motion carried by the following vote:

Aye: 14 - Alderperson Kathleen Plank, Alderperson William Siebers, Alderperson

Curt Konetzke, Alderperson Ed Baranowski, Alderperson Margret Mann, Alderperson Patti Coenen, Alderperson Kyle Lobner, Alderperson Jeffrey

Jirschele, Alderperson Matt Reed, Alderperson Vered Meltzer,

Alderperson Joe Martin, Alderperson Greg Dannecker, Alderperson Cathy

Spears and Alderperson Chris Croatt

Excused: 1 - Alderperson Christine Williams

Abstained: 1 - Mayor Timothy Hanna

T. ADJOURN

Motion by Baranowski, seconded by Coenen to reconvene in open session. Motion carried 14/0 and at 7:17 p.m. the Common Council reconvened in open session.

Alderperson Baranowski moved, seconded by Alderperson Croatt, that the meeting be adjourned at 7:18 p.m. Roll Call. Motion carried by the following vote:

Aye: 15 - Alderperson Kathleen Plank, Alderperson William Siebers, Alderperson

Curt Konetzke, Alderperson Ed Baranowski, Alderperson Margret Mann, Alderperson Patti Coenen, Alderperson Kyle Lobner, Alderperson Jeffrey

Jirschele, Alderperson Matt Reed, Alderperson Vered Meltzer,

Alderperson Joe Martin, Alderperson Greg Dannecker, Alderperson Cathy

Spears, Alderperson Chris Croatt and Mayor Timothy Hanna

Excused: 1 - Alderperson Christine Williams

Kami Lynch, City Clerk



OFFICE OF THE MAYOR

Timothy M. Hanna 100 North Appleton Street Appleton, Wisconsin 54911-4799 (920) 832-6400 FAX (920) 832-5962 email: mayor@appleton.org

January 13, 2017

Members of the Common Council:

The following is being presented for your confirmation at the January 18 Council meeting:

BOARD OF ZONING APPEALS

Appointment of one (1) member to fill the vacant 1st Alternate position:

KELLY SPERL 3-year term to expire May 2019

Appleton resident Kelly Sperl has been employed in the design, planning and architectural profession for 39 years. He has owned and operated ACS, Inc. for the past 19 years.

Mr. Sperl, a licensed Architect in the State of Wisconsin for 23 years, has been a member of the American Institute of Architects (A.I.A.) for over 20 years. He has also been a member of the Association of Licensed Architects (A.L.A.) for over 15 years and currently holds the position of Vice President of the Wisconsin A.L.A. Chapter.

In addition to Kelly's professional memberships, he is a Volunteer Partner with Harbor House, a sponsor and past volunteer to Pop Warner Football and past board member and volunteer to the Appleton North H.S. Booster Club and Little League Baseball.

It is with pleasure that I make this recommendation.

Sincerely.

TIMOTHY M. HANNA Mayor of Appleton



DEPARTMENT OF PUBLIC WORKS Engineering Division – Traffic Section 2625 E. Glendale Avenue Appleton, WI 54911 TEL (920) 832-5580 FAX (920) 832-5570

To:

Municipal Services Committee

From:

Michael Hardy, Assistant City Traffic Engineer

Date:

January 4, 2017

Re:

2017 Sole Source Purchase Request - Various Traffic Equipment & Technologies

CC:

Jeffrey Fait, City Purchasing Manager

This sole source purchase request is reassessed and presented annually as required in the City procurement policy. It was last approved in 2016.

Background:

Traffic Signal and Control Equipment

Within the traffic signal control industry, there is a tremendous amount of proprietary functionality and limited interoperability. The number of vendors servicing traffic signal equipment is also very limited. For example, Traffic and Parking Control Company, Inc. (TAPCO), located in Elm Grove, Wisconsin, is the exclusive vendor in Wisconsin for Siemens signal cabinet and control equipment, which the City of Appleton uses. TAPCO is also the exclusive state vendor for Eberle Design Inc. (EDI) cabinet equipment, Iteris video detection systems, and other support equipment used in traffic signal control systems. Because TAPCO is designated as the exclusive rights vendor in the state by these manufacturers, they have exclusive knowledge for set-up, testing and servicing, beyond that which the City is capable of performing. There are other vendors in nearby states that carry these product lines, but their manufacturer-vendor relationships do not allow overlap with each other. Thus, the City cannot, for example, do business with Brown Traffic Products, Inc., which is TAPCO's equivalent in Illinois and Minnesota.

The next closest vendor that provides comparable products and services is a company called Traffic Control Corporation (TCC), with service currently provided out of Illinois and Minnesota. TCC's exclusive manufacturer-vendor relationship is very similar to TAPCO, with cabinets and control systems manufactured by both Econolite and Reno Traffic Products. Also, because TCC is the exclusive vendor for these product lines, they have exclusive knowledge for set-up, testing and servicing.

Due to the above circumstances, it is common in the traffic industry that complete traffic signal control assemblies are sole-source purchased as complete, functional systems. Another unfortunate reality is that each manufacturer's equipment has its own proprietary firmware and controls, which makes it nearly impossible to competitively procure comparable equipment. In this situation, TAPCO or TCC will assemble the cabinet, controller, vehicle detection equipment and any other integrated equipment, and perform functional testing prior to shipment and installation. The advantage to this approach is it helps manage compatibility issues, and puts responsibility on the sole source vendor to assure complete functionality of the system. The disadvantage is that procured equipment is not competitively bid in a formal process. The other common application in the traffic industry is that specifications are written to accept only one manufacturer's products. This gives the illusion of being competitive, but often only one vendor is able to meet the required specifications. There has been some implementation of equipment from both TAPCO and TCC, but the experiences are limited, along with the success stories. Here too, the City would need to stock significant additional equipment due to limited experience with compatibilities and functionality.

The good news is there are standards making gradual progress in the traffic control industry. The National Electrical Manufacturer's Association (NEMA) has developed standards that provide requirements for equipment interoperability. For example, the City has accepted NEMA, TS2, Type 1 specification for our traffic signal control cabinets. This provides control over how the cabinets are configured and how the control equipment is connected and integrated into the control functionality. The National Transportation Communications for Intelligent Transportation Systems (ITS) Protocol (NTCIP) is the next level of standards under development at the federal level, intended to limit the proprietary firmware and controls in the traffic industry.

Traffic Signal Preventative Maintenance

Preventative maintenance is another item that is currently sole sourced. A key component in preventative maintenance is performing a diagnostic test on a device called the Malfunction Management Unit (MMU). Performing this service is performed annually, and is common practice in the traffic signal industry to discourage legal action against the City for negligence if a signal malfunction is the suspected cause in a traffic incident. To date, the City has decided it is not in our best interest to perform this testing on our own. To replicate this service the City would have to purchase expensive test equipment, software and training. The current sole source vendor, TAPCO, has strong familiarity with our equipment since they are exclusive rights vendor in the state by the MMU manufacturer the City currently uses. Having considered this, we feel this is a reasonable cost and the best decision for the City at this time.

Decorative Street Lighting Equipment

Recent experiences have prompted the addition of decorative street lighting equipment to this sole source request. Specific items that apply are decorative lighting components involving steel poles, concrete poles, arms and fixtures. One large contributing factor is the City has standardized on a specific appearance and quality using Stresscrete, King and Visco brands products for applications across the City, most notably College Avenue and Wisconsin Avenue. While there are other decorative brands on the market simulating a comparable look, the quality of these off-brands has been much lower, leading to increased maintenance costs and decreased life. When bidding this equipment in the past, we have specified a specific product or approved equal. To meet the City purchasing policy, we have been competitively bidding these decorative lighting brands through the electrical supply chains. It is our opinion, while this looks competitive and meets the spirit of the purchasing policy, it actually amounts to a mark-up on a product we ultimately know we are going to purchase. Having considered the above, we feel sole source offers the best value of the City's time and resources.

In 2017, we are adding a new pole, arm and fixture line in conjunction with the new Fox Cities Exposition Center (FCEC). The architect and project team of the FCEC has selected a unique lighting assembly to match the look and appeal of the building. We are adding this to the sole source list as we feel this will be a similar situation to the other decorative lighting equipment.

LED Street Lighting

Recent experiences have prompted the addition of LED street lighting equipment to this sole source request. Specific items that apply are both standard and decorative LED street lighting fixtures. In 2010, the City authored a specification and released a bid to replace standard fixtures with LED fixture in the central business district. That experience evaluated products from eight (8) different manufacturers. As a result of that experience, we have identified products from Cooper and Philips as the preferred fixtures for future applications. To comply with the City's purchasing policy in future purchases, we would have to competitively bid these two brands thru the electrical supply chains. In our opinion, while this appears competitive and meets the spirit of the purchasing policy, it really amounts to a mark-up on a product we ultimately know we are going to purchase. We have established a relationship with the manufacturers and have been advised we can purchase from them directly. Where these two products are competitive with each other, we would be able to compare costs direct from the manufacturers which would meet the competitive spirit of the policy. However, three products would be needed to satisfy the policy as written. Having considered the above discussion, we feel a sole source exception offers the best value of the City's time and resources.

Camera & Video Encoders

When the traffic camera program began its deployment in 2010, Pelco brand pan-tilt-zoom cameras were procured in accordance with City Policy, where at least three quotes were received. In light of the switch to Avigilon video management software by the City in 2013 and the increase in failures of recent Pelco brand cameras, the Traffic Section has transitioned to both AXIS and Avigilon brand cameras. The AXIS brand cameras can be purchased in accordance with City Policy as they are readily available through multiply suppliers. Avigilon cameras, however, can only be purchased thru a licensed State vendor. Thus, in instances where we feel an Avigilon camera is advantageous for a specific application and software integration for the City, a sole source approval is needed to satisfy the policy as written.

School Zone Flashers & Rapid Rectangular Flashing Beacon (RRFB) Control

In 2014 the City procured a new school flasher control system. Criteria specified in that procurement was the ability for remote access to set the flasher schedules and troubleshoot in case of maintenance. The City procured a product called DirecTime, which has its own proprietary web enabled service for remote access. The DirecTime product, installed at all school zone flashers across the City, is exclusively manufactured by Traffic and Parking Control Company, Inc. (TAPCO). In the event additional locations or replacement units are necessary, it is in our opinion that sole sourcing the DirecTime product line is the best value of the City's time and resources.

In 2015, the City installed the first RRFB control system since the 2012 Lawrence University crosswalks on College Ave. After a review of quotes, qualifications and compliance with our performance criteria, we selected a product manufactured by Traffic and Parking Control Company, Inc. (TAPCO). The Spot Device brand which is currently installed on College Ave has since been purchased by a competitor and the product line has been discontinued. The RRFB system from TAPCO uses the same remote access system as the DirecTime product described above. Thus, access to both School Flashers and RRFB control is together, which is a valuable feature to monitor performance and troubleshoot or perform maintenance. In the event additional locations or replacement units are necessary, it is in our opinion that sole sourcing the TAPCO RRFB product line is the best value of the City's time and resources.

Summary:

The City Traffic Section continues to pursue equipment and services to help improve competition in our purchases. We often have alternative vendors bring us equipment to familiarize with and test for compatibility. When we evaluate comparable products, we try to take a holistic approach, considering additional software, training, stocking, etc. We also stay in touch routinely with our counterparts in the traffic industry, like Wisconsin DOT, City of Green Bay, and Milwaukee County to help evaluate pricing when and where sole sourcing is performed. This, too, helps communicate between agencies on acceptance of alternative products. We also pursue alternative procurement options when available through the Wisconsin DOT procurement contract. Where equipment is consistent with Wisconsin DOT procurement contracts, a price match is pursued.

The following is the Traffic Section's current list of equipment and services we feel it is in the City's best interest to sole source for procurement:

Traffic Signal and Control Equipment

Signal Controller and Control Software:

• Siemens/Eagle (TAPCO)

Signal Control Cabinets:

- Siemens/Eagle (TAPCO)
- Econolite (TTC)

Signal Control Malfunction Management Unit:

- Eberle Design, Inc. (TAPCO)
- Reno A & E (TTC)

Loop Detector Amplifiers:

- Eberle Design, Inc. (TAPCO)
- Reno A & E (TTC)

Video Detection Systems

- Iteris, Inc. (TAPCO)
- Econolite (TTC)

Wireless Detection Systems

- MS Sedco / Intersector. (TAPCO)
- Wavetronix (TTC)

Preemption:

GTT (TAPCO)

Wireless Radio Communications:

- Encom Wireless (TAPCO)
- Intuicom (TTC)

Control Cabinet Integration Set-up and Testing:

- TAPCO
- TTC

Radar Speed Signs

• Information Display Company

Traffic Signal Preventative Maintenance

Traffic Signal Preventative Maintenance:

TAPCO

Decorative Street Lighting Equipment

Concrete Poles & Arms

• Stresscrete / King Luminaire (Visual Impact Lighting, LLC)

Steel Poles & Arms

- Visco (Commercial Lighting)
- Spring City (Visual Impact Lighting, LLC)
- Structura Inc.

LED Fixtures

- Stresscrete / King Luminaire (Visual Impact Lighting, LLC)
- Beacon Viper

Conventional LED Street Lighting

LED Street Light Fixtures

- Philips (Spectrum Lighting)
- Cooper Lighting (Enterprise Lighting)

Traffic Cameras

Pan-Tilt-Zoom & Fixed Zoom

Avigilon (Lappen Security)

Warning Flashers & RRFB

School Zone Flasher & RRFB Controls

DirecTime (TAPCO)

Department of Public Works - Engineering Division

MEMO

TO:

Municipal Services Committee

FROM:

Chad M. Weyenberg, Project Engineer

DATE:

January 5, 2017

RE:

Award of Contract for Bridge Rehabilitation Reports to Collins Engineers, in an

amount of \$26,096.81.

The State of Wisconsin requires that the City perform a bridge rehabilitation report in accordance with TRANS 213 of the Wisconsin Administrative Code, prior to submitting for Local Bridge Program Funding. The Department of Public Works is recommending to contract with Collins Engineers, in an amount not to exceed \$26,096.81 to provide engineering services to meet these requirements. Collins Engineers will be providing bridge rehabilitation reports for the following bridges in 2017:

South Island Street over the Power Canal Lawe Street over the Fox River Olde Oneida Street over the Power Canal

In addition to the bridge rehab reports, Collins Engineers will provide engineering estimates on the realignment of South Island Street from Vulcan Street to Lawe Street. This realignment is necessary to accommodate the new bridge layout as well as Neenah Papers truck turning radiuses.

The Department of Public Works requested proposals from five qualified Wisconsin consulting firms. The City received three qualified proposals from AECOM Technical Services, Collins Engineers and Graef.

Collins Engineers = \$26,096.81 Graef = \$42,340.00 AECOM = \$61,466.10

Collins Engineers, demonstrated the related experience and personnel necessary to complete the required tasks. In addition, they also demonstrated a good project understanding and approach. Collins Engineers' team leader, Steven Miller P.E., recently served as the City's consultant bridge engineer for the state mandated bridge and dive inspections. He provides an excellent service and a detailed understanding of the City's bridges.

CITY OF APPLETON POLICY	TITLE: SPECIAL EVENT POLICY			
ISSUE DATE: September 1996	LAST UPDATE: January 2010	SECTION: City Clerk		
POLICY SOURCE: City Clerk	AUDIENCE: City employees and residents	TOTAL PAGES: 8		
Reviewed by Legal Services Date: Nov. 22, 2002 Sept. 14, 2016	Safety and Licensing Committee Approval Date: January 14, 2010	Council Approval Date: Approve amendment to policy January 20, 2010		

I. PURPOSE

The purpose of this policy is to define what constitutes a special event and to outline the steps that must take place for a special event to be properly licensed.

II. POLICY

Events and planned occurrences on City property that exceed the normal and ordinary use of such property may be considered special events and subject to review and licensing.

III. DISCUSSION

It is recognized that special events of all sizes often bring benefits to the community. At the same time, the City must have sufficient notice prior to an event so that the City can evaluate the potential impact the event might have on resources of City departments, City owned properties and facilities, and ultimately on the public.

There are three categories of special events: (i) significant events, which are events with an anticipated attendance of over 5,000 people, (ii) large events, which are events with an anticipated attendance of between 1,000 and 5,000 people, and (iii) small events, which are events with an anticipated attendance of under 1,000 people. Because events have unique characteristics, with different potential impacts on City services, the issuance of a license is considered on a case-by-case basis and in accordance with this policy.

The ultimate goal of this policy and in licensing special events is the preservation of the public's health, safety and welfare, and to promote the responsible use of publicly owned facilities and property.

IV. DEFINITIONS

- **Anticipated attendance** an objective estimate made by an applicant of the total number of people who will attend a special event.
- **Applicant** the individual applying for the special event license.
- **Days** calendar days.
- **Large event** a special event with an anticipated attendance of between 1,000 and 5,000 people.
- Multiple day event a special event that occurs on more than one day, where
 the days are consecutive or at a consistent interval (e.g., an event occurring on
 a consecutive Saturday and Sunday or an event occurring every other
 Tuesday), at the same time and at the same location. One special event
 license will be issued for a multiple day event.
- Normal and ordinary use the way City owned property should normally and ordinarily be used, as established by the department that of jurisdiction (e.g., a ball diamond complex's normal and ordinary use is for baseball/softball games, public street's normal and ordinary use is for vehicular traffic, etc.). Whether an event is considered within the normal and ordinary use of the property is determined by the City department that maintains jurisdiction over the property.
- **Significant event** a special event with an anticipated attendance of over 5,000 people.
- **Single day event** a special event that does not meet the definition of a multiple day event.
- **Small event** a special event with an anticipated attendance of under 1,000 people.
- Special event or event any planned occurrence in the public right-of-way or on public property including, but not limited to, parades, gatherings, festivals and athletic events, which are not within the normal and ordinary use of that place or which, by the nature of the event, may have a greater impact on City services or resources than would have occurred had the event not taken place. Whether the event is considered within the normal and ordinary use of the public facility or property shall be determined by the City department that maintains jurisdiction over the proposed venue. A special event may be a single day event or a multiple day event.

- **Special event license** the license issued by the City Clerk to the applicant for the special event.
- **Special Event License Application Form** or **application** available from the City Clerk that must be approved in order to obtain a license to hold the special event.
- **Special Events Committee** a committee comprised of City employees representing various City departments.

V. PROCEDURES

A. <u>License Requirements</u>

- 1. <u>Application</u>. To obtain a special event license, the applicant must file a completed Special Event License Application Form with the City Clerk before the last applicable day and pay the license fees. *See Attachment A Fee Schedule*.
 - a. <u>Late Applications</u>. Late applications will not be accepted unless the event is a large or significant event that has been held in the City for at least the past two (2) consecutive years and there are no changes to the event from the previous year. Late applications meeting this standard may be accepted by the City Clerk subject to a late fee. Applications submitted less than ten (10) days before the event will not be accepted. *See Attachment A Fee Schedule*.
 - b. <u>Additional Reservations/Permits/Licenses</u>. Filing an application does **NOT** reserve a park or facility and does **NOT** include applications for any other licenses or permits as may be required.
 - c. <u>Map/Diagram of Event</u>. A detailed map or diagram indicating the specific location and layout of the event must be submitted with the application. This should also include any proposed street closures and the proposed route and direction of route, including all turns and the number of traffic lanes to be used, if applicable.
 - i. <u>Street Closure.</u> If an event requires a street closure, the applicant or their contractor must provide an acceptably-prepared Traffic Control Plan (TCP) to the Traffic Section for review and approval no less than four (4) weeks prior to the event. The plan must comply with the Federal Highway

Administration's Manual on Uniform Traffic Control Devices, latest edition, and the City of Appleton's Temporary Traffic Control Manual, latest edition. Temporary traffic control devices/services must be provided by a contractor which has extensive experience in the industry and is approved in advance by the Traffic Section.

- ii. Event Route. Event routes, if applicable, must be submitted with the application regardless of historical precedent. Proposed routes may be altered after the license has been issued only at the discretion of the Police Department and the Department of Public Works. Should a special event deviate from the route submitted without the approval of the city, the applicant may be denied a license for any special events for the following calendar year.
- d. <u>Insurance</u> Events are required to have adequate levels of insurance as determined by the City's Risk Manager and based on the size and type of the event. Applicants must furnish the City Clerk with a valid certificate of insurance covering any and all liability.

2. Meetings.

- a. <u>Special Events Committee Meeting</u>. Prior to filing an application, the applicant may request to meet with the Special Events Committee at the next regularly scheduled meeting to discuss the proposed special event and receive feedback regarding the likelihood of the application being approved.
- b. <u>Department Meeting</u>. The City Clerk may schedule a meeting if deemed necessary by the City Clerk or requested by the applicant and/or the affected department(s) should the applicant make a request for City services during an event. The purpose of the meeting will be to discuss the services requested. The meeting must be held no later than thirty (30) calendar days before the event. If the applicant refuses to meet at the request of the City Clerk, the license may be denied or revoked.
- 3. <u>Application Review</u>. Applications are reviewed by the voting members of the Special Events Committee, and voting members

must recommend either approving or denying the application. The City Clerk will issue a license if all voting members recommend approving the license. The review must include, but may not be limited to, an evaluation based on the following criteria:

- a. Use of department resources,
- b. Costs to the department,
- c. Benefit to the community,
- d. Any perceived public health or safety problems, and
- e. Use of City property.

If a recommendation for denial is made, an explanation must be provided to the City Clerk which will be provided to the applicant. The applicant may request the application be submitted to the Safety and Licensing Committee and the Common Council for review and a final determination of whether to grant the license.

- 4. <u>False/Misleading Information</u>. False or misleading information knowingly made on an application may result in the applicant incurring penalties including, but not limited to, being billed for City provided services and being prevented from obtaining a license or permit in the future. The license may also be denied or revoked.
- 5. <u>Waiver</u>. Some or all of the license requirements may be waived in cases where the United States Secret Service notifies the City of a proposed event in which it will be assisting with security details.

B. Safety

- 1. <u>Security</u>. Events must have a designated head of security and must have additional security personnel at the rate of one (1) security person for every 200 persons present if alcohol is available for consumption or for every 400 persons present if alcohol is not available for consumption. The Police and Fire Departments have the discretion to modify these ratios as they deem necessary.
 - a. Head of Security. The head of security must, at minimum, be: (i) 18 years of age or older, (ii) clearly identifiable as the head of security at all times during the event, (iii) reachable by phone at all times during the event by any City employee, (iv) able to call 911 during the event, and (v) able to contact and instruct the security personnel, as applicable, during the event. These requirements may be modified by the Police and Fire Departments, in their discretion, as warranted.

- b. <u>Security Personnel</u>. Security personnel must, at minimum, be: (i) 18 years of age or older, (ii) clearly identifiable as security personnel at all times during the event, (iii) able to call 911 during the event, (iv) reachable at all times by the head of security during the event, and (v) be able to act on instructions from the head of security, or any other authorized person, in case of an emergency. These requirements may be modified by the Police and Fire Departments, in their discretion, as warranted.
- 2. <u>Additional Safety Features</u>. The Police and Fire Departments may, at their discretion, require events have additional safety features including, but not limited to, a first aid station with a certified nurse or medical doctor, an ambulance on standby and professionally licensed security officers.
- 3. <u>Compliance</u>. Applicants are responsible for ensuring that the event complies with all applicable statutes, ordinances, traffic rules, park rules, state health laws, fire codes, and liquor licensing regulations.

C. <u>Set-Up, Toilet Facilities and Clean-Up</u>

- 1. <u>Set-Up Time</u>. Set-up for an event, including, but not limited to, dropping off supplies and erecting tents, shall not take place more than four (4) hours in advance of an event unless approval for earlier set-up has been granted in writing by the department director or designee with jurisdiction over the location of the event.
- 2. <u>Toilets</u>. It is the responsibility of the applicant to ensure the adequate number of toilets are available at the event.
- 3. <u>Clean-Up</u>. It is the responsibility of the applicant to ensure the proper number of waste receptacles are present at the event. If additional clean-up is needed at the conclusion of an event, the applicant will be charged back for the time spent by City employees for their clean-up efforts. All clean-up efforts must be completed within four (4) hours after the conclusion of the event unless approval for additional clean-up time has been granted in writing by the department director or designee with jurisdiction over the location of the event.

D. Fees

1. <u>License Fee</u>. Special event license fees are set based upon the amount of resources used by the City for similar events. The

license fee must be paid at the time of the application is filed with the City Clerk as is based on the event's anticipated attendance, whether there will be street closures, and how far in advance of the event the application is filed with the City Clerk. See Attachment A-Fees.

- 2. <u>Late Fee</u>. A late fee of will be added to all applications filed pursuant to Section V(A)1(a) above. *See Attachment A Fees*.
- 3. <u>Police Investigation Fee</u>. A background check of the applicant will be conducted by the Police Department and the fee for the check, \$7.00, will be added to all applications.
- 4. <u>City Events</u>. Events where the applicant is an official or designated agent of the City acting on behalf of the City will not incur any fees.
- 5. <u>Permits.</u> Charges for park facilities, food sales permits, tent permit fees, etc., are to be paid **IN ADDITION** to the fees discussed in this policy.
- 6. Non-Refundable. All fees are non-refundable.
- E. <u>Event Cancellation</u> The Mayor or designee may cancel an event without prior notice for any condition affecting the public health or safety of the City, or any condition that would affect facilities, grounds, or other natural resources at risk of damage or destruction if the event were permitted to take place.
- F. <u>Annual Reporting</u> By July 30 of every year, a report must be submitted by the City Clerk to the Safety and Licensing Committee and the Common Council documenting the cost of services provided to special events by City departments for the previous year.
- G. <u>Precedent</u>. Nothing in this policy shall be read to take precedent over any applicable statutes or ordinances.

ATTACHMENT A - FEES

SINGLE DAY EVENT LICENSE FEE							
Days before the event	Small Events - Under 1,000 attendees WITHOUT STREET	Small Events – Under 1,000 attendees WITH STREET	Large Events – Between 1,000 and 5,000 attendees WITHOUT STREET	Large Events – Between 1,000 and 5,000 attendees WITH STREET	Significant Events – Over 5,000 attendees WITHOUT STREET	Significant Events – Over 5,000 attendees WITH STREET CLOSURE	
	CLOSURE	CLOSURE	CLOSURE	CLOSURE	CLOSURE	<u> </u>	
90 days or more	\$50	\$100	\$500	\$700	\$1,000	\$1,500	
60-89 days	\$60	\$150	\$600	\$750	\$1,200	\$1,700	
45-59 days	\$75	\$200	\$800	\$1,000	\$1,650	\$2,500	
30-44 days	\$100	\$300	DENIED	DENIED	DENIED	DENIED	
10-29 days	\$200	\$400	DENIED	DENIED	DENIED	DENIED	
< 10 days	DENIED	DENIED	DENIED	DENIED	DENIED	DENIED	
Late Fee	N/A	N/A	\$300	\$600	\$600	\$1,200	

MULTIPLE DAY EVENT LICENSE FEE							
Days before the event	Small Events - Under 1,000 attendees	Small Events – Under 1,000 attendees	Large Events – Between 1,000 and 5,000 attendees	Large Events – Between 1,000 and 5,000 attendees	Significant Events – Over 5,000 attendees	Significant Events – Over 5,000 attendees	
	WITHOUT STREET CLOSURE	WITH STREET CLOSURE	WITHOUT STREET CLOSURE	WITH STREET CLOSURE	WITHOUT STREET CLOSURE	WITH STREET CLOSURE	
90 days or more	\$50	\$100	\$500	\$700 first day + \$175 each additional day	\$1,000	\$1,500 first day + \$375 each additional day	
60-89 days	\$60	\$150	\$600	\$750 first day + \$188 each additional day	\$1,200	\$1,700 first day + \$425 each additional day	
45-59 days	\$75	\$200	\$800	\$1,000 first day fee + \$250 each additional day	\$1,650	\$2,500 first day fee + \$750 each additional day	
30-44 days	\$100	\$300	DENIED	DENIED	DENIED	DENIED	
10-29 days	\$200	\$400	DENIED	DENIED	DENIED	DENIED	
< 10 days	DENIED	DENIED	DENIED	DENIED	DENIED	DENIED	
Late Fee	N/A	N/A	\$300	\$600	\$600	\$1,200	

CITY OF APPLETON POLICY			TITLE: SPECIAL EVENT POLICY		
ISSUE DATE: September 1996	LAST UPDATE February 2005 January 2010		City Clerk		FILE NAME: clerk\wpwin\licenses\ Special Event Policy
POLICY SOURCE: City Clerk		AUD City r			TOTAL PAGES: 5
Reviewed by Attorney's Office Date: Nov. 22, 2002	Safety and Licen Committee Appr Date: January 14		<u> </u>		rove amendment to policy

I. PURPOSE

It is recognized that special events often bring certain benefits to the community. At the same time, the City must have sufficient notice prior to an event so that various elected officials and City departments can evaluate the potential impact such an event might have on resources of City departments, City owned properties and facilities, and ultimately on the public. Each event has unique characteristics and will have a different impact on the services. Therefore, events should be considered on a case-by-case basis with the ultimate goal being the preservation of the public's health, safety, welfare, and to promote the responsible use of publicly owned facilities and property.

II. POLICY

Events or planned occurrences on City property that exceed the normal and ordinary use of such property, may be considered special events and be subject to review and licensing.

III. DEFINITIONS

Special event means any planned occurrence on the public right-of-way or public premises including, but not limited to, parades, gatherings, festivals and athletic events which is not within the normal and ordinary use of that public premises or place or which, by nature of the event, may have a greater impact on City services or resources than would have occurred had the event not taken place. Whether the event is considered within the normal, ordinary, or intended use of public facilities or property shall be determined by the City department that maintains jurisdiction over the proposed venue.

IV. DISCUSSION

A. <u>Licensing Requirements</u>

- 1. Applications shall be filed with the City Clerk.
- 2. Sponsors of Special Events must comply with all applicable city ordinances, traffic rules, park rules, state health laws, fire codes, and liquor licensing regulations.
- 3. Every city department receiving a copy of a special event license application shall recommend either approving or denying the application and listing any reasons for denial. Each department shall review an application based upon the following criteria:
 - a. Use of department resources
 - b. Costs to the department
 - c. Benefit to the community
 - d. Any perceived public health or safety problems
 - e. Use of city property
- 4. Special Event license requirements shall be waived in those cases where the United States Secret Service notifies the City of a proposed event in which it will be assisting with security details.
- 5. All Special Events applications will be reviewed by the Special Events Coordination Committee, with the City Clerk issuing the special event permit upon approval of all departments reviewing the application. If any denial is received from one or more departments, the application shall be submitted to the Safety and Licensing Committee and the Common Council for review and a determination whether to grant the license.
- 6. For each special event license form submitted which requests city services, the Clerk may schedule a meeting if deemed necessary or requested by the event sponsors and/or the affected departments. The purpose of the meeting shall be to discuss the specific nature of the services requested. It shall be held no later than thirty (30) days before the event.
- 6. Each event shall have a designated head of security that can be contacted at any time by the Police, Fire or Health Departments. Each event may be required to have security personnel at the rate of one security person for every 300 persons present if alcohol is available or for any 600 persons present if alcohol is not available. The Police and Fire Departments, depending on facts and

circumstances specific to each event, shall have the discretion to modify these ratios, as they deem necessary.

7. Street Closures – If a special event requires any street(s) to be closed, The Event Organizer or their contractor shall be required to provide an acceptably-prepared Traffic Control Plan (TCP) to the Traffic Section for review and approval no less than 4 weeks prior to the event. The plan shall comply with the Federal Highway Administration's *Manual on Uniform Traffic Control Devices*, latest edition, and the City of Appleton's *Temporary Traffic Control Manual*, latest edition. Temporary Traffic Control devices/services shall be provided by a contractor which has extensive experience in the industry and is approved in advance by the Traffic Section.

B. Fees

1. A Police Investigation Fee of \$7.00 will be added to all applications.

The special event per day fee schedule shall be determined by the size of the event and whether or not street closures are being requested. In addition, the number of days before an event will be considered to set the fee:

PER DAY FE	PER DAY FEE STRUCTURE							
Days before	Small Events	Small	Large Events –	Large Events –	Significant	Significant Events –		
the event	– Under	Events –	Between 1,000	Between 1,000	Events – Over	Over 5,000		
	1,000	Under 1,000	and 5,000	and 5,000	5,000 attendees	attendees		
	attendees	attendees	attendees	attendees				
	WITHOUT	WITH	WITHOUT	WITH	WITHOUT	WITH STREET		
	STREET	STREET	STREET	STREET	STREET	CLOSURE		
	CLOSURE	CLOSURE	CLOSURE	CLOSURE	CLOSURE			
90 days or more	\$125	\$125	\$500	\$600	\$1,000	\$1,100		
60-89 days	\$125	\$200	\$500	\$750	\$1,000	\$1,250		
46-60 days	\$125	\$200	\$600	\$850	\$1,250	\$1,500		
45 days	\$125	\$200	\$750	\$1,000	\$1,500	\$1,750		
30-45 days	\$200	\$300	DENIED	DENIED	DENIED	DENIED		
10-29 days	\$500	\$600	DENIED	DENIED	DENIED	DENIED		
LESS THAN	DENIED	DENIED	DENIED	DENIED	DENIED	DENIED		
10 DAYS								

- 2. City sponsored events, even though they may meet the definition of a special event, may not be required to pay a fee.
- 3. Charges for park facilities, food sales permits, tent permit fees, etc. are to be paid *IN ADDITION* to the Special Events application fee. Submittal of an event application does **NOT** reserve a park or

include application for any other permits as may be required.

C. <u>Insurance Requirements</u>

1. There are 3 categories of Special events; Significant Events, Large Events and Small Events. The activities in each category of special event will determine the appropriate levels of insurance.

The City reserves the right to make final determination of an event's classification and the related requirements that will be imposed upon the event organizer.

- a. Significant Events would include all events over 5,000 people in attendance.
- b. Large Events would include all events with attendance between 1,000 and 5,000.
- c. Small Events would include all events with under 1,000 people in attendance.
- 2. Each applicant shall furnish the City a certificate of insurance showing insurance written by a company licensed in the State of Wisconsin approved by the City's Risk Manager and covering any and all liability.

D. Mapped Routes

A detailed map or diagram indicating the specific locations and layout of the event must be submitted. This should also include any proposed street closures, proposed route and direction of route including all turns and the number of traffic lanes to be used, if applicable.

Routes for special events must be submitted with the license application, regardless of historical precedent. Proposed routes may be altered at the discretion of the Police Department and the Department of Public Works. In the event that the organizer or sponsor of any special event deviates from the route submitted without the approval of the city, the organizer or sponsor of such special event may be denied a permit for any special event for the following calendar year.

E. Event Cancellation

The Mayor, or designee, may cancel an event without prior notice for any condition affecting the public health or safety of the city, or any condition that would place facilities, grounds, or other natural resources at risk of damage or destruction if the event were permitted to take place.

F. <u>Annual Reporting</u>

By March 30 a report will be submitted to the Safety and Licensing Committee and the Common Council documenting the cost of services provided to special events by city departments for the previous year.

2015 Special Events Cost Summary

Total acet	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>Change</u>	% change
Total cost Octoberfest	45,156	46,351	50,254	3,903	
Other large events (3 parades, 4th July, Marathon, Turkey Trot)	36,494	32,991	40,584	7,592	
All other	25,502	24,897	26,401	1,504	
Total cost	\$ 107,152	\$ 104,239	\$ 117,239	\$ 13,000	12%
Average cost					
# other large events	6	6	6		
Average cost - large events	6,082	5,499	6,764	1,265.00	23%
# smaller events	70	65	84		
Average cost - smaller events	364	383	314	(69.00)	-18%
Octoberfest - cost by department					
Clerk	_	30	32	2	
Parks	-	-	3,147	3,147	
Health	2,556	1,763	2,567	804	
Police	31,692	32,122	28,564	(3,558)	
Fire	-	-	1,420	1,420	
DPW				-	
Parking	978	1,659	1,903	244	
Traffic	2,261	2,680	3,369	689	
San	3,563	3,883	4,683	800	
Overhead	4,105	4,214	4,569	355	
Total cost	45,155	46,351	50,254	3,903	8%
Other large events - total cost each					
Flag day	6,205	5,009	7,343.23	2,334.59	47%
Memorial day	3,735	3,273	7,817.66	4,544.52	139%
Christmas	14,074	12,775	13,507.71	733.20	6%
4th July	4,398	3,860	5,528.25	1,668.25	43%
Marathon	4,263	4,197	3,064.72	(1,131.92)	-27%
Turkey Trot	3,818	3,878	3,321.97	(556.47)	-14%

Project Description	Labor	Material	Equipment	Overhead	Total
6 GREAT STRIDES TO BENEFIT CYSTIC FIBROSIS	118.97	_	-	11.90	130.87
11 PAPER DISCOVERY DUATHLON	339.71			33.97	373.68
12 CIVIL WAR REENACTMENT - WOODLAND PARK	11.03			1.10	12.13
13 CIVIL WAR REENACTMENT - PIERCE PARK # 1	41.67	-	-	4.17	45.84
14 AMERICAN CANCER SOCIETY SOLEBURNER	1,948.29	330.20	424.08	270.26	2,972.83
15 POLICE WEEK VEHICLE DISPLAY	48.56	-	-	4.86	53.42
16 JOHNSTON SCHOOL MUSTANG MILE 17 MEMORIAL DAY PARADE	232.98 6,376.34	-	14.88 730.62	24.79 710.70	272.65 7,817.66
19 FLAG DAY PARADE	6,586.07		89.59	667.57	7,343.23
20 BIG BOOM CIVIC CELEBRATION	4,946.32		79.36	502.57	5,528.25
21 HEID MUSIC SUMMER CONCERT SERIES	49.23			4.92	54.15
23 BRETT YOUNGER 10K RUN/ 2M WALK	1,063.89		5.27	106.92	1,176.08
24 M.A.S.H BLOOD DRIVE	49.23			4.92	54.15
26 MILLER ELECTRIC COMPANY PICNIC	1,068.67		20.77	108.94	1,198.38
27 APPLETON WEST CROSS COUNTRY INVITATION	250.09		19.84	26.99	296.92
28 COMMUNITY FIRST FOX CITIES MARATHON 29 WALK FOR BABIES - MARCH OF DIMES	2,594.54 95.13	-	191.57	278.61 9.51	3,064.72 104.64
31 LAWRENCE UNIVERSITY - COMMENCEMENT	127.71	_	-	12.77	140.48
33 CIVIL WAR REENACTMENT - ERB PARK # 1	80.30			8.03	88.33
37 APPLETON CAR SHOW	1,166.04	55.46	90.21	131.17	1,442.88
38 ART IN THE PARK	1,353.71		30.38	138.41	1,522.50
39 OCTOBERFEST	43,818.90	345.66	1,520.83	4,568.54	50,253.93
42 ST PIUS FUN RUN	76.87		10.23	8.71	95.81
43 HORIZONS FIELD DAY FUN RUN	41.67			4.17	45.84
44 PATHWAYS CHURCH PICNIC	42.48		00.04	4.25	46.73
45 USA YOUTH SOCCER MIDWEST REGIONAL CHA	113.79		28.21	14.20	156.20
48 XAVIER HOMECOMING PARADE 49 EAST H.S. HOMECOMING PARADE	407.25 552.89		14.88 30.07	42.21 58.30	464.34 641.26
51 FREAKY 5K RUN/WALK	927.34	_	64.79	99.21	1,091.34
56 TOWARD COMMUNITY PICNIC	42.48		01.70	4.25	46.73
59 APPLETON WEST H.S. HOMECOMING PARADE	460.10		84.63	54.47	599.20
62 FOX CITIES CROP WALK	136.15			13.62	149.77
67 APPLETON CHRISTMAS PARADE	11,660.50		619.24	1,227.97	13,507.71
68 SANTA SCAMPER 1 MILE FUN RUN	338.61			33.86	372.47
84 JUNETEENTH - AFRICAN HERITAGE INC.	878.69	-	9.92	88.86	977.47
90 YMCA BIRD BATH SWIM MEEET	113.19	-	31.00	14.42	158.61
112 ST. PIUS ELEMENTARY JOG-A-THON 117 CHILDREN'S PARADE/PICNIC	11.13 261.20		01.00	1.11 28.23	12.24 310.51
121 YMCA FOX CITIES SUMMER CLASSIC SWIM MEE	98.34		21.08 15.19	26.23 11.35	124.88
124 FAMILY SERVICES BUTTERFLY RELEASE	82.77		13.19	8.28	91.05
127 APPLEE TREE CONNECTIONS	1,036.79		37.36	107.42	1,181.57
138 ST PIUS PRAYER PROCESSION	13.85			1.39	15.24
140 CIVIL WAR RE-ENACTMENT - WOODLAND PK #	34.07			3.41	37.48
147 MILES FOR MYELOMA	673.96		59.52	73.35	806.83
159 APRIL FOOL'S MIDNIGHT RUN	544.61			54.46	599.07
161 ST MARY/ST JOSEPH INTERPARISH WORSHIP	52.70			5.27	57.97
163 ST PIUS X - RESPECT LIFE EUCHARISTIC PROC 166 FOX CITIES GREENWAYS	208.20 56.73			20.82 5.67	229.02 62.40
167 LAW ENFORCEMENT TORCH RUN	389.15			38.92	428.07
171 ADI - CHALK ABOUT TOWN	7.56			0.76	8.32
177 CARS, TRUCKS & THINGS THAT GO	1,463.97		209.32	167.33	1,840.62
190 TURKEY TROT - FESTIVAL FOODS	2,957.35		62.62	302.00	3,321.97
195 LIGHT UP THE FOX RIDE	41.06			4.11	45.17
198 KIDS' RUMMAGE SALE	41.67			4.17	45.84
199 PARKS & REC - MOVIES ON THE HILL	41.67			4.17	45.84
200 PARS & REC - PLAYGROUND FAIR	52.80			5.28	58.08
206 ADI MILE OF MUSIC	330.28			33.03	363.31
209 NATIONAL MS SOCIETY 211 APPLETON ICE - ALE FEST	48.56 498.23			4.86 49.82	53.42 548.05
214 TOP SHELF OFFICIAL MEET	42.48			4.25	46.73
215 SIC WIT IT MC	11.13			1.11	12.24
218 FOSTER ELEMENTARY FUN RUN	343.98		24.80	36.88	405.66
220 HOLIDAY FUN FEST	52.77			5.28	58.05
221 JET PTA COLOR RUN	44.59			4.46	49.05
222 HOUDINI 10	811.52		61.97	87.35	960.84
223 EARTH DAY RIVER HIKE	52.04			5.20	57.24
224 XAVIER ELEMENTARY SPIRIT SPRINT / ST FRAN	80.75			8.08	88.83
225 XAVIER ELEMENTARY SPIRIT SPRINT / ST THON	112.94			11.29	124.23
226 WISDOM OF WOMBATS 227 APPLE CREEK 50K	49.17 513.09		14.88	4.92 52.80	54.09 580.77
227 APPLE CREEK SUK 228 MILE OF MUSIC BIKE RIDE	332.60		14.00	33.26	365.86
229 APPLETON FOOD TRUCK RALLY	117.56			11.76	129.32
230 FOX CITIES COMMUNITY ART DAY	49.23			4.92	54.15
231 BIKE TO WORK DAY PIT STOP	52.80			5.28	58.08
232 FLAG DAY PARADE FREEDOM RIDE	49.23			4.92	54.15

233 TREATMENT TRAIL	49.23			4.92	54.15
234 ART ON THE TOWN (PARK-ING DAY)	41.67			4.17	45.84
235 FOX VALLEY LITERACY COUNCIL 5K	52.80			5.28	58.08
236 APPLETON FOOD TRUCK RALLY	10.29			1.03	11.32
237 LIVING HOPE CHRISTIAN MUSIC CONCERT	45.23			4.52	49.75
238 PULSE YOUNG PROFESSIONALS NETWORK	31.38			3.14	34.52
239 SUMMER MOVIES IN THE PLAZA	45.23			4.52	49.75
240 ADVANCED MOVEMENT STUDIO FIT FOX FEST	52.80			5.28	58.08
241 PARK & REC ALL CITY CAMPOUT	10.29			1.03	11.32
242 APOSTOLIC TRUTH CHURCH FIESTA HISPANA	116.40			11.64	128.04
243 DUP15Q ALLIANCE WALK/RUN	157.76			15.78	173.54
244 APPLETON GOSPEL CHURCH WORSHIP IN THE	42.48			4.25	46.73
245 RUNAWAY SHOES FOC CITIES NITELITE RUN	597.52		29.76	62.73	690.01
246 ST JAMES UMC MALARIA NO MORE WALK	42.48		29.70	4.25	46.73
	_			_	
247 CASA HISPANA LATINO FEST	42.48			4.25	46.73
248 FOX CITIES BUILDING FOR THE ARTS FUNDRAL	42.48			4.25	46.73
_	101,202.44	731.32	4,646.87	10,658.13	117,238.76

LEGAL SE "...meeting community needs...enhancing quality of life."

LEGAL SERVICES DEPARTMENT

Office of the City Clerk

100 North Appleton Street Appleton, WI 54911 Phone: 920/832-6443

Fax: 920/832-5823

September 27, 2016

Safety & Licensing Committee

Re: Special Event Policy Updates

Attached you will find a proposed Special Event Policy in which the staff Special Events Committee has worked diligently on revising over the past few months. The policy was last updated in 2010 and that update seemed to focus mainly on the fees. Here are the highlights of the major changes in the proposed 2016 version:

- 1. Fee changes- The fees were increased by about 20% and some fees were even lowered to better reflect actual time spent/services used on these events. The smaller event fees were lowered and the large or significant event fees were increased. We also addressed fees for multiple day or reoccurring events.
- 2. Multiple day events was added to the policy as this was something that was not previously addressed and that we have seen an increase in. The fees for multiple day events include an additional fee of 25% of the original application fee.
- 3. The revised policy provides definitions for various terms/aspects of the policy such as defining days since our fees relate to the days prior to the even in which the application was filed. It also outlines procedures for the denial of special event applications due to not filing in time or providing false information on the application.
- 4. The policy also specifies timing for which an event may begin set up and when the event must be cleaned up by to ensure the location of the event is suitable for other uses in a timely manner.

This is a basic summary of the significant policy changes and if there are further questions I would be happy to answer them. I also welcome other suggested changes. Staff hopes to have a final policy in place in the next month or so, but certainly before the end of the year for adequate notice to current special event applicants.

Thank you,

Kami Lynch City Clerk, City of Appleton kami.lynch@appleton.org

CITY OF APPLETON POLICY	TITLE: SPECIAL EVENT POLICY			
ISSUE DATE: September 1996	LAST UPDATE: February 2005 January 2010	SECTION: City Clerk		
POLICY SOURCE: City Clerk	AUDIENCE: City employees and residents	TOTAL PAGES: 58		
RReviewed by Attorney's Office Legal Services Date: Nov. 22, 2002 Sept. 14, 2016	Safety and Licensing Committee Approval Date: January 14, 2010	CCouncil Approval Date: Approve amendment to policy January 20, 2010		

I. PURPOSE

The purpose of this policy is to define what constitutes a special event and to outline the steps that must take place for a special event to be properly licensed.

II. POLICY

Events and planned occurrences on City property that exceed the normal and ordinary use of such property may be considered special events and subject to review and licensing.

III. DISCUSSION

It is recognized that special events of all sizes often bring certain benefits to the community. At the same time, the City must have sufficient notice prior to an event so that various elected officials and the City departments can evaluate the potential impact such anthe event might have on resources of City departments, City owned properties and facilities, and ultimately on the public. Each event has unique characteristics and will have a different impact on the services. Therefore, events should be considered on a case-by-case basis with the ultimate goal being the preservation of the public's health, safety, welfare, and to promote the responsible use of publicly owned facilities and property.

II. POLICY

Events or planned occurrences on City property that exceed the normal and ordinary use of such property, may be considered special events and be subject to review and licensing.

- Small event a special event with an anticipated attendance of under 1,000 people.
- SSpecial event means or event any planned occurrence onin the public rightof-way or on public premises property including, but not limited to, parades,
 gatherings, festivals and athletic events, which is are not within the normal and
 ordinary use of that public premises or place or which, by the nature of the
 event, may have a greater impact on City services or resources than would
 have occurred had the event not taken place. Whether the event is considered
 within the normal, and ordinary, or intended use of the public facilities facility
 or property shall be determined by the City department that maintains
 jurisdiction over the proposed venue. A special event may be a single day
 event or a multiple day event.

S

IV. DISCUSSION

Special event

-A. <u>Licensing Requirements</u>

- 1. <u>license the license issued by the City Clerk to the applicant for the special event.</u>
- Special Event <u>License Application Form or application</u> available from the City Clerk that must be approved in order to obtain a license to hold the special event.

SSpecial Applications shall be filed with the City Clerk.

- Sponsors of Special Events must comply with all applicable city ordinances, traffic rules, park rules, state health laws, fire codes, and liquor licensing regulations.
- 3. Every city department receiving a copy of a special event license application shall recommend either approving or denying the application and listing any reasons for denial. Each department shall review an application based upon the following criteria:
- Events Committee a committee comprised of City employees representing various City departments.

V. PROCEDURES

a: Use of department resources

Costs to the department

available or for any 600 persons present if alcohol is not available. The Police and Fire Departments, depending on facts and circumstances specific to each event, shall have the discretion to modify these ratios, as they deem necessary.

Map/Diagram of Event. A detailed map or diagram indicating the specific location and layout of the event must be submitted with the application. This should also include any proposed street closures and the proposed route and direction of route, including all turns and the number of traffic lanes to be used, if applicable.

requires anya street(s) to be closed, The Event
Organizer closure, the applicant or their contractor shall be required to must provide an acceptablyprepared Traffic Control Plan (TCP) to the Traffic Section for review and approval no less than four
(4) weeks prior to the event. The plan shall must comply with the Federal Highway Administration's Manual on Uniform Traffic Control Devices, latest edition, and the City of Appleton's Temporary Traffic Control Manual, latest edition. Temporary Traffic Control Manual, latest edition. Temporary Traffic Control Manual of the control devices/services shall must be provided by a contractor which has extensive experience in the industry and is approved in advance by the Traffic Section.

Police Investigation Fee of \$7.00 will be added to all applications.

1. A Police Investigation Fee of \$7.00 will be added to all applications.

The special event per day fee schedule shall be ii. Event Route. Event routes, if applicable, must be submitted with the application regardless of historical precedent. Proposed routes may be altered after the license has been issued only at the discretion of the Police Department and the Department of Public Works. Should a special event deviate from the route submitted without the approval of the city, the applicant may be denied a license for any special events for the following calendar year.

 d. Insurance Events are required to have adequate levels of insurance as determined by the City's Risk Manager and City provided services and being prevented from obtaining a license or permit in the future. The license may also be denied or revoked.

 Waiver. Some or all of the license requirements may be waived in cases where the United States Secret Service notifies the City of a proposed event in which it will be assisting with security details.

B. Safety

- 1. Security. Events must have a designated head of security and must have additional security personnel at the rate of one (1) security person for every 200 persons present if alcohol is available for consumption or for every 400 persons present if alcohol is not available for consumption. The Police and Fire Departments have the discretion to modify these ratios as they deem necessary.
 - a. Head of Security. The head of security must, at minimum, be: (i) 18 years of age or older, (ii) clearly identifiable as the head of security at all times during the event, (iii) reachable by phone at all times during the event by any City employee, (iv) able to call 911 during the event, and (v) able to contact and instruct the security personnel, as applicable, during the event. These requirements may be modified by the Police and Fire Departments, in their discretion, as warranted.
 - b. Security Personnel. Security personnel must, at minimum, be: (i) 18 years of age or older, (ii) clearly identifiable as security personnel at all times during the event, (iii) able to call 911 during the event, (iv) reachable at all times by the head of security during the event, and (v) be able to act on instructions from the head of security, or any other authorized person, in case of an emergency. These requirements may be modified by the Police and Fire Departments, in their discretion, as warranted.
- 2. be considered to Additional Safety Features. The Police and Fire Departments may, at their discretion, require events have additional safety features including, but not limited to, a first aid station with a certified nurse or medical doctor, an ambulance on standby and professionally licensed security officers.
- 3. Compliance. Applicants are responsible for ensuring that the event complies with all applicable statutes, ordinances, traffic rules, park rules, state health laws, fire codes, and liquor licensing regulations.

- 6. Non-Refundable. All fees are non-refundable.
- E. Event Cancellation The Mayor or designee may cancel an event without prior notice for any condition affecting the public health or safety of the City, or any condition that would affect facilities, grounds, or other natural resources at risk of damage or destruction if the event were permitted to take place.
- F. Annual Reporting By July 30 of every year, a report must be submitted by the City Clerk to the Safety and Licensing Committee and the Common Council documenting the cost of services provided to special events by City departments for the previous year.
- G. Precedent. Nothing in this policy shall be read to take precedent over any applicable statutes or ordinances.

	MULTIPLE DAY EVENT LICENSE FEE										
Days before the event	Small Events - Under 1,000 attendees WITHOUT STREET CLOSURE	Small Events – Under 1,000 attendees WITH STREET CLOSURE	Large Events – Between 1,000 and 5,000 attendees WITHOUT STREET CLOSURE	Large Events — Between 1,000 and 5,000 attendees WITH STREET CLOSURE	Significant Events – Over 5,000 attendees WITHOUT STREET CLOSURE	Significant Events— Over 5,000 attendees WITH STREET CLOSURE					
90 days or more	<u>\$50</u>	<u>\$100</u>	<u>\$500</u>	\$700 first day + \$175 each additional day	\$1,000	\$1,500 first day + \$375 each additional day					
60-89 days	<u>\$60</u>	<u>\$150</u>	<u>\$600</u>	\$750 first day + \$188 each additional day	<u>\$1,200</u>	\$1,700 first day + \$425 each additional day					
45-59 days	<u>\$75</u>	<u>\$200</u>	\$800	\$1,000 first day fee + \$250 each additional day	<u>\$1,650</u>	\$2,500 first day fee + \$750 each additional day					
0-44 days	\$100	\$300	DENIED	DENIED	DENIED	DENIED					
0-29 days	\$200	\$400	DENIED	DENIED	DENIED	DENIED					
< 10 days	DENIED	DENIED	DENIED	DENIED	DENIED	DENIED					
Late Fee	N/A	N/A	\$300	\$600	\$600	\$1,200					

2. Each applicant shall furnish the City a certificate of insurance showing insurance written by a company licensed in the State of Wisconsin approved by the City's Risk Manager and covering any and all liability.

D. Mapped Routes

A detailed map or diagram indicating the specific locations and layout of the event must be submitted. This should also include any proposed street closures, proposed route and direction of route including all turns and the number of traffic lanes to be used, if applicable.

Routes for special events must be submitted with the license application, regardless of historical precedent. Proposed routes may be altered at the discretion of the Police Department and the Department of Public Works. In the event that the organizer or sponsor of any special event deviates from the route submitted without the approval of the city, the organizer or sponsor of such special event may be denied a permit for any special event for the following calendar year.

E. Event Cancellation

The Mayor, or designee, may cancel an event without prior notice for any condition affecting the public health or safety of the city, or any condition

CITY OF APPLETON POLICY	TITLE: SPECIAL EVENT POLICY		
ISSUE DATE: September 1996	LAST UPDATE: January 2010	SECTION: City Clerk	
POLICY SOURCE: City Clerk	AUDIENCE: City employees and residents	TOTAL PAGES: 8	
Reviewed by Legal Services Date: Nov. 22, 2002 Jan 3, 2017	Safety and Licensing Committee Approval Date: January 14, 2010	Council Approval Date: Approve amendment to policy January 20, 2010	

I. PURPOSE

The City is dedicated to making the special event licensing process as easy as possible for applicants. The purpose of this policy is to outline the steps that must be taken for special events to be properly licensed by the City of Appleton.

II. POLICY

Events and planned occurrences on City property that exceed the normal and ordinary use of such property may be considered special events and subject to review and licensing.

III. DISCUSSION

It is recognized that special events of all sizes often bring benefits to the community. At the same time, the City must have sufficient notice prior to a special event so that the City can evaluate the potential impact the event might have on resources of City departments, City owned properties and facilities, and ultimately on the public. Because events have unique characteristics with different potential impacts on City services, the issuance of a license is considered on a case-by-case basis and in accordance with this policy.

For licensing purposes there are three categories of special events: (i) Small Events, which are events with an anticipated attendance of under 1,000 people, (ii) Large Events, which are events with an anticipated attendance of between 1,000 and 5,000 people, and (iii) Significant Events, which are events with an anticipated attendance of over 5,000 people. Events may take place on one day or for multiple days.

The event category plus the number of days the event will occur will determine (i) the fee for the event, (ii) the license application deadline, and (iii) any other minimum resources required for the event.

IV. DEFINITIONS

Anticipated attendance means an objective estimate made by an applicant of the total number of people who will attend a special event.

Applicant means the person applying for the special event license.

Days means calendar days.

Event category means the size of the event, either a Small Event, Large Event or Significant Event.

Large Event means a special event with an anticipated attendance of between 1,000 and 5,000 people.

License means the license issued by the City Clerk to the applicant for the special event.

Multiple day event means a special event that occurs on more than one day, where the days are consecutive or at a consistent interval (e.g., an event occurring on a consecutive Saturday and Sunday or an event occurring every other Tuesday), at the same start and end time and at the same location. One special event license will be issued for a multiple day event.

Normal and ordinary use means the way City owned property should normally and ordinarily be used, as established by the department that of jurisdiction (e.g., a ball diamond complex's normal and ordinary use is for baseball/softball games, a public streets normal and ordinary use is for vehicular traffic, a sidewalks normal and ordinary use is for pedestrian use). Whether an event is considered within the normal and ordinary use of the property is determined by the City department that maintains jurisdiction over the property.

Significant Event means a special event with an anticipated attendance of over 5,000 people.

Single day event means a special event that does not meet the definition of a multiple day event.

Small Event means a special event with an anticipated attendance of under 1,000 people.

Special event or event means any planned occurrence in the public right-of-way or on public property including, but not limited to, parades, gatherings, festivals and athletic events, which are not within the normal and ordinary use of that place or which, by the nature of the event, may have a greater impact on City services or resources than would have occurred had the event not taken place. Whether the event is considered within the normal and ordinary use of the public facility or property shall be determined by the City department that maintains jurisdiction over the property. A special event may be a single day event or a multiple day event.

Special Event License Application Form or *application* means the application available from the City Clerk that must be approved by the City Clerk on the recommendation of the Special Events Committee in order to obtain a license to hold a special event.

Special Events Committee means the committee comprised of City employees representing various City departments.

V. PROCEDURES

A. <u>LICENSE REQUIREMENTS</u>.

- 1. <u>Application</u>. To obtain a special event license, the applicant must file a completed application with the City Clerk before the last applicable day before the event and pay the license fees. *See Attachment A Fee Schedule*.
 - a. <u>Late Applications</u>. Late applications will not be accepted unless the event is a large or significant event that has been held in the City for at least the past two (2) consecutive years and there are no changes to the event from the previous year. Late applications meeting this standard may be accepted by the City Clerk subject to a late fee. Applications submitted less than ten (10) days before the event will not be accepted. *See Attachment A Fee Schedule*.
 - b. <u>Additional Reservations/Permits/Licenses</u>. Filing an application does **NOT** reserve a park or facility and does **NOT** include applications for any other licenses or permits as may be required.
 - c. <u>Map/Diagram of Event</u>. A detailed map or diagram indicating the specific location and layout of the event must be submitted with the applicant. The map should also include any proposed street closures and the proposed route and direction of route, including all turns and the number of traffic lanes to be used, if applicable.
 - i. <u>Street Closure</u>. If an event requires a street closure, the applicant or their contractor must provide an acceptably-prepared Traffic Control Plan (TCP) to the Traffic Section for review and approval no less than four (4) weeks prior to the event. The plan must comply with the Federal Highway Administration's Manual on Uniform Traffic Control Devices, latest edition, and the City of Appleton's Temporary Traffic Control Manual, latest edition. Temporary traffic control devices/services must be provided by a contractor which has extensive experience in the industry and is approved in advance by the Traffic Section.
 - ii. <u>Event Route</u>. Event routes, if applicable, must be submitted with the application regardless of historical precedent. Proposed routes may be altered after the license has been issued only at the discretion of the Police Department and the Department of Public Works.
 - d. <u>Insurance</u> Events are required to have adequate levels of insurance as determined by the City's Risk Manager and based on the size and type of the event. Applicants must furnish the City Clerk with a valid certificate of insurance covering any and all liability.

2. <u>Meetings</u>.

- a. <u>Special Events Committee Meeting</u>. Prior to filing an application, the applicant may request a meeting with the Special Events Committee at the next regularly scheduled meeting to discuss the proposed special event and receive feedback regarding the likelihood of the application being approved and have questions or concerns answered.
- b. <u>Department Meeting</u>. The City Clerk may schedule a meeting if deemed necessary by the City Clerk or requested by the applicant and/or the affected City Department(s) should the applicant make a request for City services. The purpose of the meeting will be to discuss the services requested. The meeting must be held no later than thirty (30) calendar days before the event. If the applicant refuses to meet at the request of the City Clerk, the license may be denied or revoked.

3. <u>Application Review</u>.

- a. <u>Committee Review</u>. Applications are reviewed by the Special Events Committee, which will recommend either approving or denying the application. The City Clerk will issue the license upon unanimous approval. The review by the committee must include, but may not be limited to, an evaluation based on the following criteria:
 - i. Use of department resources,
 - ii. Costs to the department,
 - iii. Benefit to the community,
 - iv. Any perceived public health or safety problems,
 - v. If the applicant has a history not complying with this policy and/or other applicable rules or regulations, and
 - vi. Use of City property.
- b. <u>Recommendation for Denial</u>. If a recommendation for denial is made, an explanation must be provided to the City Clerk which will then be provided to the applicant. The applicant may request the application be submitted to the Common Council by way of the Safety and Licensing Committee for review and a final determination of whether to grant the license.
- 4. <u>Waiver</u>. Some or all of the license requirements may be waived in cases where the United States Secret Service notifies the City of a proposed event in which it will be assisting with security details. It will be at the discretion of the Special Events Committee which requirements will be waived.

B. SAFETY.

- 1. <u>Security</u>. Events must have a designated head of security and must have additional security personnel at the rate of one (1) security person for every 300 persons present if alcohol is available for consumption or for every 600 persons present if alcohol is not available for consumption. The Police and Fire Departments have the discretion to modify these ratios as they deem necessary and the applicant will be notified of the modification as soon as reasonably possible.
 - a. Head of Security. The head of security must, at minimum, be: (i) 18 years of age or older, (ii) clearly identifiable as the head of security at all times during the event, (iii) reachable by phone at all times during the event by any City employee, (iv) able to call 911 during the event, and (v) able to contact and instruct the security personnel, as applicable, during the event. These requirements may be modified by the Police and Fire Departments in their discretion, and the applicant will be notified of the modification as soon as reasonably possible
 - b. <u>Security Personnel</u>. Security personnel must, at minimum, be: (i) 18 years of age or older, (ii) clearly identifiable as security personnel at all times during the event, (iii) able to call 911 during the event, (iv) reachable at all times by the head of security during the event, and (v) be able to act on instructions from the head of security, or any other authorized person, in case of an emergency. These requirements may be modified by the Police and Fire Departments in their discretion, and the applicant will be notified of the modification as soon as reasonably possible.
- 2. <u>Additional Safety Features</u>. The Police and Fire Departments may, at their discretion, require events have additional safety features including, but not limited to, a first aid station with a certified nurse or medical doctor, an ambulance on standby and/or professionally licensed security officers. If additional safety features are required, the applicant will be notified as soon as reasonably possible.

C. SET-UP, TOILET FACILITIES AND CLEAN-UP.

- 1. <u>Set-Up Time</u>. Set-up for an event, including, but not limited to, dropping off supplies and erecting tents, shall not take place more than four (4) hours in advance of an event unless approval for earlier set-up has been granted in writing by the department director or designee with jurisdiction over the location of the event.
- 2. <u>Markings</u>. Any instructions or information about or pertaining to an event applied directly to City property, such as streets, sidewalks and curbs, must be no more than twelve (12) inches in height and two (2) feet in length. Only white, temporary (lasting no longer than thirty [30] days), water-based marking paint or landscape chalk is permitted to be used.
- 3. <u>Toilets</u>. It is the responsibility of the applicant to ensure the adequate number of toilets are available at the event.

- 4. <u>Waste Receptacles</u>. It is the responsibility of the applicant to ensure the proper number of waste receptacles are present at the event.
- 5. <u>Clean-Up</u>. It is the responsibility of the applicant to ensure the location of the event is left in the same condition it was in prior to the event. All clean-up efforts must be completed within four (4) hours after the conclusion of the event unless approval for additional clean-up time has been granted in writing by the department director or designee with jurisdiction over the location of the event.

D. FEES.

- 1. <u>License Fee.</u> Special event license fees are set based upon the amount of resources used by the City for similar events and is based on the event's anticipated attendance, whether there will be street closures, and how far in advance of the event the application is filed with the City Clerk. The license fee must be paid at the time of the application is filed with the City Clerk. *See*, *Attachment A Fees*.
- 2. <u>Late Fee</u>. A late fee of will be added to all applications filed pursuant to Section V(A)(1)a above. *See Attachment A Fees*.
- 3. <u>Police Investigation Fee</u>. A background check of all applicants will be conducted by the Police Department and the fee for the background check, \$7.00, is in addition to the license fees.
- 4. <u>City Events</u>. Events where the applicant is an official, employee or designated agent of the City acting on behalf of the City will not incur any fees.
- 5. <u>Permits</u>. Charges for park facilities, food sales permits, tent permit fees, etc., are to be paid **IN ADDITION** to the fees discussed in this policy.
- 6. Non-Refundable. All fees are non-refundable with the exception of fees for events that are cancelled by the applicant and/or the City due to weather conditions or by the City for the unforeseen or unexpected unavailability of the event venue that is not caused by an act or inaction of the applicant, in which case the fees will revert to a credit the applicant can use for rescheduling the event or for a similar event. The credit must be used within one (1) calendar year from the date of the cancelled event. No cash refunds will be given if the full value of the credit is not used by the applicant. If the event is cancelled by the applicant due to weather conditions, notification to the City Clerk must be made as soon as reasonably possible.
- E. <u>EVENT CANCELLATION</u>. The Mayor or designee may cancel an event without prior notice for any condition affecting public health or the safety of the City, or any condition that would affect facilities, grounds, or other natural resources at risk of damage or destruction if the event were permitted to take place.
- F. COMPLIANCE. The applicant is responsible for ensuring that the event complies with

this policy and all applicable laws and regulations including, but not limited to, statutes, ordinances, traffic rules, park rules, health laws, fire codes, and liquor licensing regulations. Failure to comply resulting in the City providing services will result in the applicant being billed for the City provided services should the cost of services equal \$50 or more, and may also result in the applicant being prevented from obtaining a special event license in the future.

- a. In the event the City bills the applicant for services, the department director or designee with jurisdiction over the services provided will submit a bill to the applicant within thirty (30) days after the conclusion of the event. Payment is due to the City within thirty (30) days after the date on the bill.
- b. The applicant may appeal the bill by placing the reason for the appeal in writing and submitting it to the City Clerk prior to the bill's due date. The final determination of the bill will be made by the Common Council by way of the Safety and Licensing Committee.
- G. <u>ANNUAL REPORTING</u>. By July 30 of every year, a report must be submitted by the City Clerk to the Safety and Licensing Committee and the Common Council documenting the cost of services provided to special events by City departments for the previous year.
- H. <u>PRECEDENT</u>. Nothing in this policy shall be read to take precedent over any applicable statutes or ordinances.

ATTACHMENT A - FEES

	SINGLE DAY EVENT LICENSE FEE										
Days before the event	Small Events – Under	Small Events –	Large Events – Between 1,000	Large Events – Between 1,000	Significant Events – Over	Significant Events – Over 5,000					
	1,000	Under 1,000	and 5,000	and 5,000	5,000 attendees	attendees					
	attendees WITHOUT	attendees WITH	attendees WITHOUT	attendees WITH	WITHOUT	WITH STREET					
	STREET	STREET	STREET	STREET	STREET	CLOSURE					
	CLOSURE	CLOSURE	CLOSURE	CLOSURE	CLOSURE						
90 days or more	\$50	\$100	\$500	\$700	\$1,000	\$1,500					
60-89 days	\$60	\$150	\$600	\$750	\$1,200	\$1,700					
45-59 days	\$75	\$200	\$800	\$1,000	\$1,650	\$2,500					
30-44 days	\$100	\$300	DENIED	DENIED	DENIED	DENIED					
11-29 days	\$200	\$400	DENIED	DENIED	DENIED	DENIED					
< 10 days	DENIED	DENIED	DENIED	DENIED	DENIED	DENIED					
Late Fee	N/A	N/A	\$300	\$600	\$600	\$1,200					

MULTIPLE DAY EVENT LICENSE FEE										
Days before the event	Small Events - Under 1,000 attendees WITHOUT STREET CLOSURE	Small Events – Under 1,000 attendees WITH STREET CLOSURE	Large Events – Between 1,000 and 5,000 attendees WITHOUT STREET CLOSURE	Large Events – Between 1,000 and 5,000 attendees WITH STREET CLOSURE	Significant Events – Over 5,000 attendees WITHOUT STREET CLOSURE	Significant Events – Over 5,000 attendees WITH STREET CLOSURE				
90 days or more	\$50	\$100	\$500	\$700 first day + \$175 each additional day	\$1,000	\$1,500 first day + \$375 each additional day				
60-89 days	\$60	\$150	\$600	\$750 first day + \$188 each additional day	\$1,200	\$1,700 first day + \$425 each additional day				
45-59 days	\$75	\$200	\$800	\$1,000 first day fee + \$250 each additional day	\$1,650	\$2,500 first day fee + \$750 each additional day				
30-44 days	\$100	\$300	DENIED	DENIED	DENIED	DENIED				
10-29 days	\$200	\$400	DENIED	DENIED	DENIED	DENIED				
< 10 days	DENIED	DENIED	DENIED	DENIED	DENIED	DENIED				
Late Fee	N/A	N/A	\$300	\$600	\$600	\$1,200				

Operator's Licenses for 1/11/17 S & L

Approved

Andrew J. Armsrong 1610 E. Fremont Street Alexis M. Borsche 2609 Inglewood Place Brittnay M. Cisler 309 E. Marquette Street Starr M. Cowling 1717 E. Longview Drive Mary Jo Ebben 348 N. Kensington Drive, #8 Anthony L. Greco 1719 Silvercrest Drive, #3 Toni L. Hangartner W3279 Heartland Court Ryan J. King 1155 Bartlein Court, Menasha

Joel V. Longmore 200 Crabapple Court

Dylan J. Loveless 333A W 16th Avenue, Oshkosh

Nathan Meiwor 1202 N. State Street

Erick Mendoza 218 N. Washington Street, Watertown Cassandra K. Miller W6741 Rickey Lane, Greenville

Dakota J. Miller

Mark S. Miller

1612 N. Mason Street, #4

Edward Muntper

N5365 Franch Pood, Saymour

Edward Muntner
N5365 French Road, Seymour
Carrie L. Rasmussen
40 Weimar Court

Melanie R. Rohloff 4 Easthaven Court, #11 Perry J. Uhazie 711 E. Boldt Way, SPC 1367

Maria A. Vaginer
Timothy L. West
Chia Yang
3103 N. Meade Street
W5471 Trailwood Lane
2323 Woodrow Court, #2

Tiffany G. Yang 15 Matthias Court, #2
Alexandra L. Simonson N11101 Hwy CC, Tomahawk
Allison G. Arnold 1620 N. Mason Street, #7

Mark L. Betz 9202 Jordan Street

Amanda J. Messerschmidt

2148 Gateway Place, Neenah

Kayla M. Davis

115 Cheryl Ann Drive, Neenah

Olivia A. Olsen 2220 N. Skylark Drive

Casey B. Smith 3361 Logan Drive, #1, Oshkosh

Conor M. O'Hagan W6656 Elmview Drive Alexander L. Willey 4209 E. Ashbury Drive

OF	RIGINAL ALCOHOL	BEVERAGE RETAIL LI	CENSE APPLICATION	Applicant's WI Seller's Permit No.: FEIN	Number:	1
Sul	omit to municipal clerk.			456-1029326539-02 a		4
For	the license period begin	ning MALLAN 15	20 17 .	TYPE	FEE	-
		ding JUNE 30+n	20 17	Class A beer	\$	
				Class B beer	\$]
T O	エリエ ひろいだわればいう ロヘロン	Town of 1	20/0/00	Class C wine	\$	
Ю	THE GOVERNING BODY		PATON	Class A liquor	\$	
	n 1	City of	* } 	Class A liquor (cider only)	\$ N/A	4
Cot	inty of MHFIMM(t	Aldermanic Dist. No.	(if required by ordinance)	Class B liquor	\$	-
		-		Reserve Class B liquor	\$	_
1.	The named INDIVIDU		LIMITED LIABILITY COMPANY	Class B (wine only) winery Publication fee	\$	-
	☐ CORPOR	RATION/NONPROFIT ORGANIZATÍ	ON [*]		Ъ	┨
	hereby makes application for	r the alcohol beverage license(s) ch	ecked above.	TOTAL FEE	\$]
2.	Name (individual/partners gir	ve last name, firşt, middle; corporati	ons/limited liability companies give re	egistered name):		-
	An "Auxiliary Questionnair	ė," Form AT-103, must be comple	eted and attached to this applicati	on by each individual applicant, b	v each member of a	- a
	partnership, and by each o	fficer, director and agent of a cor	poration or nonprofit organization	, and by each member/manager ar	d agent of a limited	ł
		name, title, and place of residence of	· ·			
	B 11 484 1	Title		ome Address Post C	Office & Zip Code	
		****				-
	Secretary/Member					-
	Treasurer/Member .					-
	Agent > Tevvi	11 Joseph Hay	Vath			-
	Directors/Managers					-
3.		Nishina Well	, Busines	s Phone Number 920 - 73	4-4472	-
4.		709 E NEWDER		fice & Zip Code > Appleto	on, 5491	:5
5.	Is individual, partners or age	nt of corporation/limited liability com	pany subject to completion of the re	sponsible beverage server		- /
6						
6. 7				of this bysiness?		
۲. ه	(a) Cornerate/limited liabil	itu company applicante ophy I las	sert state W L and c	Into \$11 VIA 201 of registration	Yes . No	
٥.				ability company?	☐ Yes 🕍 No	
			agent or limited liability company, or		F 169 P 140	
					☐ Yes No	
			very YES answer in sections 5, 6, 7 a		100 /A 1.10	
9.		•	ol beverages are to be sold and stor	*		
•	all rooms including living qua	on the premises described)	consumption, and/or storage of alco	hol beverages and records, (Alcohol	beverages	
10.	Legal description (omit if stre	et address is given above):	side deck include	ns own subleuba		Cou
		ed for the sale of liquor or beer duri			Yes No	. (.0.00
		was license issued? TM+ Wi			-	
12.	Does the applicant understar	nd they must file a Special Occupation	onal Tax return (TTB form 5630,5)			•
	before beginning business?	- ,	• • • • • • • • • • • • • • • • • • • •		∑√Yes □ No	
13.		nd they must hold a Wisconsin Selle	r's Permit?			•
	[phone (608) 266-2776]	174	IV X 11 11 11 11 11 11 11 11 11 11 11 11 1		Yes No	
				esalers, breweries and brewpubs?.,		
edge anoti	of the signers. Signers agree to er. (Individual applicants and ea	operate this business according to law chimember of a partnership applicant m	/and that-the tights and responsibilities ust agn; corporate officer(s), members/r	questions has been truthfully answered to conferred by the license(s), if granted, nanagers of Limited Liability Companies	will not be assigned to must sign.) Any lack of) f
			s retusal to permit inspection. Such refu	sal is a misdemeanor and grounds for re-	ocation of this license.	,
SUB	SCRIBED AND SWORN TO E	SEFORE ME	C: : Anhai	MO Hot Nat	}	
this	<u>29</u> day of	ecember. Ox20	Mon is allow	M -/ HWW WIT		_
	(MILL D	OCCUPATION BOLIVERIES C	ONS (Officer of Corporation	n/Member/Manager of Limited Liability Com	pany/Partner/Individual)	
	(Clerk	OLLOWALK BOLWERKS C. Nicka Rymmublic, State of Widcor	(Officer of Corpo	ration/Member/Manager of Limited Liability	Company/Partners	-
Мy	commission expires	Notary Public, State of Whaten Commission Expires February	23, 2017	Tanta memberial anager of Lunited Hability	озпранул анпон	
	My	Commission Express	(Additional Part	ner(s)/Member/Manager of Limited Liability	Company if Any)	
TO E	BE COMPLETED BY CLERK					1
Date with	received and filed 299-16	Date reported to council/board	Date provisional license issued	Signature of Clerk / Deputy Clerk		1
	license granted	Date license Issued	License number issued			
	•	1				



WISCONSIN DEPARTMENT OF REVENUE PO BOX 8902 MADISON, WI 53708-8902

Contact Information:

2135 RIMROCK RD PO BOX 8902 MADISON, WI 53708-8902 ph: 608-266-2776 fax: 608-264-6884 email: DORBusinessTax@wisconsin.gov website: revenue.wi.gov

Letter ID

L1132111072

HARVATH LLC 2709 E NEWBERRY ST APPLETON WI 54915-3013

Wisconsin Department of Revenue Seller's Permit

Legal/real name:

HARVATH LLC

Business name:

THE WISHING WELL BAR & GILL

2709 E NEWBERRY ST APPLETON WI 54915-3013

- This certificate confirms you are registered with the Wisconsin Department of Revenue and authorized in the business of selling tangible personal property and taxable services.
- You may not transfer this permit.
- This permit must be displayed at the place of business and is not valid at any other location.
- If your business is not operated from a fixed location, you must carry or display this permit at all events.

Tax TypeAccount TypeAccount NumberSales & Use TaxSeller's Permit456-1029326538-02

AUXILIARY QUESTIONNAIRE ALCOHOL BEVERAGE LICENSE APPLICATION

Submit to municipal clerk.

υı	Bitlit to manicipal cierk.			1				
In	dividual's Full Name (please print) (last name)		(first nam	ne)		(middle nan	ne)	
	Havyath		PVVi		. \	OSCI	ン わ	
Н	ome Address (street/route)	Post Office	<u>~ 1 1 - </u>	City, /		State 、	Zíp Code	
12	997 N. Trailway	n		1 ADOLP H	$\wedge \wedge \cap $	ML	54413	
H	ome Phone Number	<u> </u>	Age ,	Date of Birth	J 1000-2	Place of Bir	th ,	
	920-213-4606		5	17-19-19	165	Ann	leton	
Th	e above named individual provides the	following information	as a per	son who is (check o	one);			
Г	Applying for an alcohol beverage lice		· ·	•	•			
	A member of a partnership which is			hol heverage licen	se			
X	Tevrill Haw MV (Officer/Director/Member/Manager/Age	of		Iame of Corporation, Limit		or Nonprofit (Organization)	
	which is making application for an alc	ohol beverage licens	e.					
Th	e above named individual provides the	following information	to the lic	ensing authority:				
	How long have you continuously reside	-		- y t	URS			
	Have you ever been convicted of any of				everages) for			
	violation of any federal laws, any Wisc					ounty		
	or municipality?						Yes	No.
	If yes, give law or ordinance violated, t		•	• •	date, descripti	on and	/	, -
	status of charges pending. (If more roo	n is needed, continue	on reverse	side of this form.)				
2	Are observed for any offenses presently	nanding against you	. (athon t	oon troffic uprolate	d to alaskal ka			
J.	Are charges for any offenses presently for violation of any federal laws, any W							
	municipality?						\ Yes \	No
	If yes, describe status of charges pend						🗀 100 😥	7,110
4.	Do you hold, are you making application		officer, dir	ector or agent of a	corporation/no	nprofit		
	organization or member/manager/ager	-		-	•			
	beverage license or permit?						Yes	√No.
	If yes, identify.							
_	Decree hald and the second of the			n and Type of License/Pen	•	4.		
5.	Do you hold and/or are you an officer, member/manager/agent of a limited lia							
	brewery/winery permit or wholesale liq						□ Voc □	DdNa
	If yes, identify.	abi, manadataror or	, comico (OI VVISCOTISIIT!		🗀 103 /	<u>علا</u> 140
		olesale Licensee or Permitte	e)		(Address I	By City and C	ounty)	
6.	Named individual must list in chronolog	jical order last two e	mployers	·	·		,	
	Employer's Name	mployer's Address		. c. A [:1	Employed From	-	To Bride	
)-e\+	2709 CA	Jewit	DAVVV 55	89		7016	
	Employer's Name	mployer's Address (''' 	Employed From		Го	
Th	e undersigned, being first duly sworn o	n oath denoses and	t cave th	at haleha ie tha na	reon named in	the fore	roina application	r that
$th\epsilon$	e applicant has read and made a compl	ete answer to each t	Liestion.	and that the answ	ers in each ins	tance are	true and correct	t The
un	dersigned further understands that any	license issued con	raiy to C	Rapter 125 of the	Wisconsin Sta	atutes sha	all be void, and i	under
pe	nalty of state law, the applicant may be	prosecuted for subr	าโtting fal	se statements and	affidavits in co	nnection	with this applica	ation.
Si	bscribed and sworn to before me		NOTA				ررحته والمستندين والمراد	
00	bacined and aworn to before me	. : : : : : : : : : : : : : : : : : : :	2	グ 上 ズミ				
thi	s 9 day of December	, 20 <u></u>	BLIC	: : 1	. 00	11	0 6 11	}
	ON HOW POPULLING	1, 0,	•••				richida	
	(Clark/Notary Public)	· , , ,	VISCOR	16/2 -	(Signature	of Named Indi	ividual)	
М١	commission expires	Y BOLWERK		, * [*]		, j		3
1	<u> </u>	. Chata of Misconsin					Printed	d on
,	Motaly Fubil	xpires February 23,	2017				Recycled	
AT-	103 (R. 8-11) WY COMMISSION					W	isconsin Department of F	Revenue

SCHEDULE FOR APPOINTMENT OF AGENT BY CORPORATION/NONPROFIT ORGANIZATION OR LIMITED LIABILITY COMPANY

Submit to municipal clerk.

liquor must appoint an agent.	or limited liability companies applying The following questions must be answern or members/managers of a limited. Town	ered by the agent. The appointn	nent must be signed by the officer(s)
To the governing body of:	☐ Village of Apple For	County of	Outagamit
		Nanialh	LLC
the undersigned duty authori	zed officer(s)/members/managers of	(registered name of corporation/or	rganization or limited liability company)
a corporation/organization or I	imited liability company making applic	ation for an alcohol beverage lice	ense for a premises known as
located at 2709	E Newberry St	name) (CC	
appoints	Terrill). Harv	ath)	
399	7 N. Trailman	ointed agent)	
As and facility assumes that	1	appointed agent)	
to alcohol beverages conducted	nization/limited liability company with ed therein. Is applicant agent present mpany having or applying for a beer a	y acting in that capacity or requ	esting approval for any corporation/
Yes No If so,	indicate the corporate name(s)/limited	liability company(ies) and munic	sipality(ies).
Is applicant agent subject to common How long immediately prior to Place of residence last year For:	ompletion of the responsible beverage making this application has the application has a specific has been applicated him application has the application has been applicated him application has a specific him application has a specific him application has been applicated him application has been applicated him application has been applicated him application him application has been applicated him application him app		
Ву:			mpany)
And:	•	signature of Officer/Member/Manager)	
		signature of Officer/Member/Manager)	
, Terrill J	ACCEPTANO (print/type agent's name)		pt this appointment as agent for the
beverages conducted on the	ed liability company and assume ful premises for the corporation/organization of agent)		of all business relative to alcohol Agent's age
3997 N.	(home address of agent)	[uate)	Date of birth \ -19-125
	APPROVAL OF AGENT B'		
	ecked municipal and state criminal re utation are satisfactory and I have no	cords. To the best of my knowle	
Approved on	·		
(date)	by(signature of proper	local official)	(town chair, village president, police chief)
AT-104 (R. 4-09)			Wisconsin Department of Revenue



"...meeting community needs ... enhancing quality of life."

APPLETON FIRE DEPARTMENT 700 N. DREW STREET APPLETON, WI 54911

MEMORANDUM

To: Alderperson Kyle Loebner, Safety and Licensing Committee

Members of the Common Council

From: Len Vander Wyst, Fire Chief

Date: 1/5/2017

Re:

Recommendation for the Purchase of Replacement Pickup Truck (F350) for the Hazardous

Materials Team

The Appleton Fire Department maintains Hazardous Materials (Haz-Mat) Response Team contracts for Outagamie and Calumet Counties as well as with the State of Wisconsin for a Type II Team and a Radiological Field Survey Team. As part of the Haz-Mat Team capabilities, it is necessary to maintain response vehicles. One of the tow vehicles (Ford F250) is at its ten-year life span and due for replacement. The replacement vehicle (Ford F350) will have a larger engine for better/safer towing capability of one of the 22' Haz-Mat Response trailers.

Utilizing the dealership list maintained by CEA, four vendors were asked to provide a quote with only two vendors responding as follows:

Les Stumpf Ford	Ford F350 XLT, 4 x 4 Crew Cab	\$46,105.50
L & S Truck Center	Ford F350 XLT 4 x 4 Crew Cab	\$54,195.50

Therefore, the Appleton Fire Department is recommending the purchase of the haz-mat replacement truck from Les Stumpf Ford in Appleton. Thank you!



"...meeting community needs ... enhancing quality of life."

APPLETON FIRE DEPARTMENT 700 N. DREW STREET APPLETON, WI 54911

MEMORANDUM

To: Alderperson Kathy Plank, Finance Committee

Alderperson Kyle Loebner, Safety and Licensing Committee

Members of the Common Council

From: Len Vander Wyst, Fire Chief

Date: 1/5/2017

Re: Request to Order Four Firetrucks from Fire Apparatus & Equipment

In July 2016, the Appleton Fire Department received approval to sole source purchase the fire pumper that was approved in the 2017 Capital Improvement Program (CIP). Plans are currently underway to proceed with that order in the coming weeks to avoid a February 1st price increase.

Since the Fire Department has identical pumpers in the 2018 and 2019 CEA replacement plan along with an identical, longer rescue pumper in the 2020 CEA replacement plan, the department has discussed the ability to take advantage of additional cost savings by placing all four orders at this time with subsequent delivery in budgeted years. This would allow the City to get the current pricing plus an approximate 3% Producer Price Index (PPI) increase each year. This breaks down as follows:

Description	CEA Replacement Year	Purchased as Four-Truck Order	Purchased Separately	Savings
189" PUC Engine	2017	\$616,625*	\$625,000	\$8,375
189" PUC Engine	2018	\$634,100	\$650,000	\$15,900
189" PUC Engine	2019	\$653,200	\$676,000	\$22,800
214" PUC Engine	2020	\$758,800	\$793,030	\$34,230
			Total Savings:	\$81,305

^{*}This price does not include the prepayment discount.

Under this scenario, no payment would be required until delivery. However, pre-payment discounts are still available based on interest rates at the time of delivery. For example, the 2017 prepayment discount is 4.5% bringing the cost from \$616,625 to \$590,225. The department will save \$26,400 by prepaying for this vehicle.

The department has identified that standardizing our fleet will improve efficiencies and safety by providing consistency from one truck to the next for those personnel moving from station to station. Efficiencies will also be gained relating to maintenance of the vehicles. By ordering the same fire pumper for the next four years, the department will save significant staff time by eliminating the need to develop specifications for each truck. The department will also save significant staff time relating to training on the new truck.

The department has a long-standing relationship with Pierce Manufacturing and has seen the innovation, cooperation, improved pricing, as well as their commitment and direct involvement in the growth of our City. When the department has encountered issues with our firetrucks, Pierce Manufacturing has been extremely responsive to our needs including taking parts off the assembly line to assist us in keeping our trucks in service.

Therefore, the Appleton Fire Department respectfully requests the approval of both the sole source purchase from Fire Apparatus & Equipment, our local Pierce Manufacturing vendor, of the four fire pumpers along with the ability to order all four replacement firetrucks in advance for future year delivery and payment.

Please do not hesitate to contact me should you have any questions at 832-5810. Thank you!



REPORT TO CITY PLAN COMMISSION

Plan Commission Meeting Date: January 9, 2017

Common Council Meeting Date: January 18, 2017

Item: Resolution #11-R-16 - Submitted by Alderperson Siebers

From: Don Harp, Principal Planner and Karen Harkness, Director

GENERAL INFORMATION

Resolution: #11-R-16 - Submitted by Alderperson Siebers

Whereas the R3 and CBD zoning of the 200 block of North Fair Street does not reflect the present usage of the properties along this street

Whereas the zoning of the properties of the 200 block of North Fair Street was done by the City in 1994, likely in hope that it would generate future development reflective of the zoning

Whereas no development on this block has taken place since the rezoning and those who own houses on this block, along with their alderperson, are not aware of any possible development pending in the near future

Whereas the property owners on the 200 block of North Fair Street desire that their properties be properly zoned according to their usage

Therefore, be it resolved, that the zoning of the properties in the 200 block of North Fair Street reflect the present usage of said properties.

Be it further resolved, that the Community & Economic Development Department identify other areas similar to the 200 block of North Fair Street, as it pertains to zoning, and if it is the desire of the property owners, properly zone these properties according to their usage.

2016 Special Assessment Policy: The special assessment policy establishes assessment rates based on how a property is zoned, not by how the property is used.

• In 2016, sanitary and storm laterals and mains were installed as part of the Fair Street Project. The properties on Fair Street are used as single-family and two-family residential dwellings but have a CBD commercial and R-3 multi-family zoning classification. Consequently, the property owners are required to pay a higher assessment for the installation of the sanitary and storm laterals and mains because of their current zoning classification per the current Special Assessment Policy. (See memo dated October 6, 2016 attached)

• For example, 210 and 214 N. Fair Street are used as single-family dwellings and are principal permitted and conforming uses in the R-3 multi-family zoning classification. These properties are properly zoned according to their use per the current Zoning Ordinance but are required to pay a higher assessment because they are being assessed by how these properties are zoned rather than how they are used.

BACKGROUND

On November 16, 2016, the Finance Committee discussed the refer back regarding the request from Alderperson Siebers to approve that special assessments for sanity laterals, storm sewer and storm sewer laterals for properties on North Fair Street that are zoned Commercial and R-3 with single family residential use be assessed as Single Family. This item was held until the January 24, 2017 meeting.

Link to View Video of Item 16-1585:

http://cityofappleton.granicus.com/MediaPlayer.php?view_id=3&clip_id=1711

On November 7, 2016, the Plan Commission referred the above-referenced Resolution to staff for analysis and report of the applicable standards of the Zoning Ordinance and the process to initiate a zoning map amendment (rezoning) by a resolution submitted by an alderperson.

On November 2, 2016, the Common Council referred back to the Finance Committee Alderperson Siebers' request to approve that special assessments for sanity laterals, storm sewer and storm sewer laterals for properties on North Fair Street that are zoned Commercial and R-3 with single family residential use be assessed as Single Family.

On October 25, 2016, the Finance Committee recommended denial of a request from Alderperson Siebers that special assessments for sanity laterals, storm sewer and storm sewer laterals for properties on North Fair Street that are zoned Commercial and R-3 with single family residential use be assessed as Single Family per attached Finance Committee Agenda and related materials.

Link to View Video of Item 16-1585:

http://cityofappleton.granicus.com/MediaPlayer.php?view_id=3&clip_id=1683

STAFF ANALYSIS

Current Zoning Classification and Use of the Subject Sites:

Subject Site (Address)	Parcel #	Current Use	Zoning	Permitted	Legal Nonconforming
			Classification	Use	Use
139 N Fair Street	31-5-1149-00	Single-Family Dwelling	CBD	No	Yes
202 N Fair Street	31-5-1136-00	Single-Family Dwelling	CBD	No	Yes
209 N Fair Street	31-5-1146-00	Two-Family Dwelling	CBD	No	Yes
210 N Fair Street	31-5-1134-00	Single-Family Dwelling	R-3	Yes	N/A
211 N Fair Street	31-5-1145-00	Single- Family Dwelling	CBD	No	Yes
214 N Fair Street	31-5-1132-00	Single-Family Dwelling	R-3	Yes	N/A
219 N Fair Street	31-5-1143-00	Single-Family Dwelling	CBD	No	Yes

- 210 and 214 N. Fair Street are currently zoned R-3 Multi-Family District and have been located in a multi-family zoning district <u>since 1951</u>. Single-family dwellings are principal permitted and conforming uses in the R-3 Multi-Family zoning classification.
- 139, 202, 211, and 219 N. Fair Street are currently zoned CBD Central Business District and have been located in a commercial zoning district <u>since 1951</u>. These single-family dwellings are not permitted uses but are legal nonconforming uses in the CBD Central Business District zoning designation. (See Note Below)
- 209 N. Fair Street is currently zoned CBD Central Business District and has been located in a commercial zoning district <u>since 1951</u>. This two-family dwelling is not a permitted use but is a legal nonconforming use in the CBD Central Business District zoning designation. (See Note Below)

Note: The single-family uses and two-family use noted above are permitted to continue based on Section 23-42(b)(5) of the Zoning Ordinance, which provides that in the case of natural disasters, property owners rebuilding essentially the same building should not suffer any loss of the use of property, provided it does not conform to current development standards (see below).

- a. A nonconforming principal or accessory building or structure may be restored or repaired to the size, location and use that it had immediately before damage or destruction occurred, and without regard to the cost of such restoration, repairs or improvements if both of the following apply:
 - 1. The nonconforming principal or accessory building or structure was damaged or destroyed on or after March 2, 2006.
 - 2. The damage or destruction was caused by violent wind, vandalism, fire, flood, ice, snow, mold, or infestation.
- b. The size of such nonconforming principal or accessory building or structure or to which this subsection applies may be enlarged if such enlargement is made necessary for the principal or accessory building or structure to comply with applicable state and federal requirements.

Appleton Comprehensive Plan 2010-2030:

The purpose of the Appleton Comprehensive Plan 2010-2030: The City of Appleton's Comprehensive Plan establishes a vision for future land use, physical development, and quality of life in the City and provides a comprehensive set of goals, policies, and initiatives to achieve that vision. It is a coordinated and unified plan used to maintain and enhance conditions within the community and provide guidance on private and public development issues.

The City of Appleton Comprehensive Plan 2010-2030 Future Land Use Map identifies this area for future neighborhood commercial which may include a mix of office, neighborhood retail, and personal services on the ground floor of a building and residential apartment uses on the upper levels. The subject properties are appropriately zoned to further the purpose and future vision for this area of the City as identified by the City of Appleton Comprehensive Plan 2010-2030.

Purpose of Rezoning:

The purpose of a rezoning is to modify permitted land uses, yard setbacks, building heights and other requirements of the City's Zoning Ordinance for the development of a property, and to uphold the goals and objectives of the City's Comprehensive Plan.

Rezonings are justifiable under one or more of the following four circumstances per Section 23-65(d)(3) of the Zoning Ordinance:

1. When the requested rezoning is consistent with City's Comprehensive Plan.

Findings: Rezoning the subject properties based on use will not be consistent with the City of Appleton Comprehensive Plan 2010-2030.

2. When there was an error or oversight in the original zoning of the property.

Findings: Staff finds no evidence there is an error in the zoning map pertaining to how the subject properties are zoned or have been originally zoned.

3. When a study submitted by the applicant which indicates an increase in the demand for land in the requested zoning district.

Findings: No market study has been submitted with the resolution.

4. When the development cannot be accommodated by sites already zoned in the City due to lack of transportation, utilities or other development constraints, or the market to be served by the proposed development cannot be effectively served by the location of the existing zoning district(s).

Findings: New infrastructure has been installed in this area of the City to effectively serve the subject properties.

Zoning Map Amendment Procedure by Resolution:

The specific section of the Zoning Ordinance that applies in this case is Section 23-65(d)(1) and (2) Map amendments. The section reads as follows:

Section 23-65 (d) Map amendments.

(1) Proposal by Common Council or Plan Commission. Amendments may be proposed by resolution of an alderperson submitted to the City Clerk to be forwarded to Plan Commission or by direct initiation by the Plan Commission. If the Plan Commission determines an amendment proposed by an alderperson is primarily intended to serve an individual or a narrow interest rather than the general public interest, it shall report such resolution with a recommendation that the benefiting party submit an application with appropriate fees. A resolution to initiate rezoning must be accompanied by the information required in subsection (2) that follows and shall be processed in accordance with the provisions of this section.

- (2) Application by owner or owner's designated agent. An owner or owner's designated agent wishing to rezone his property shall meet with the Community and Economic Development Director to discuss the proposed rezoning. If the owner or owner's designated agent wishes to pursue a rezoning, they shall obtain, complete and file a rezoning application form with the City Clerk accompanied by a nonrefundable fee which may be amended from time to time, as established by the Common Council by resolution, to cover costs of public notice and administrative review. The application form shall contain, at a minimum, the following information:
 - a. Applicant and property owner's name, address and telephone number.
 - b. Parcel information, including tax key number, legal description, street address, if any, dimensions and existing zoning and land use.
 - c. Present zoning district and use of the property.
 - d. Proposed zoning district and description of proposed land use and/or structures.
 - e. Justification for rezoning.
 - f. Map of area, drawn to scale, outlining the parcel(s) requested for rezoning, identifying all adjacent streets, properties, existing zoning and present uses on all adjacent properties.

The second sentence in Section 23-65(d)(1) above (see underlined) is the operative sentence as it relates to the responsibility of the Plan Commission. This standard requires the Plan Commission to determine if a resolution for a zoning map amendment (rezoning) relating to the <u>seven (7) properties</u> identified above is intended to serve: 1) an individual, 2) a narrow interest rather than the general public interest.

The third sentence in Section 23-65(d)(1) above (<u>see bold underlined italic</u>) is the second operative sentence as is relates to a requirement that a resolution submitted by an alderperson to initiate the rezoning must be accompanied by a complete application for rezoning and the nonrefundable \$450 filing fee pursuant to Section 23-65(d)(1) and (2) of the Zoning Ordinance.

PLAN COMMISSION ACTION REQUIRED (Zoning Map Amendment by Resolution)

Pursuant to Section 23-65(d)(1) of the Zoning Ordinance, the Plan Commission's determination in this regard will decide what the next appropriate course of action would be.

Option 1: Resolution #11-R-16 proposed by Alderperson Siebers <u>**BE DENIED**</u> because rezoning the subject properties to a single-family or two-family zoning district would be contrary to the standards for zoning map amendments as required by Section 23-65(d)(3) of the Zoning Ordinance as stated in staff report.

Option 2: Resolution #11-R-16 proposed by Alderperson Siebers <u>BE DENIED</u> regarding the Community & Economic Development Department identify other areas similar to the 200 block of North Fair Street, as it pertains to zoning, and if it is the desire of the property owners, properly zone these properties according to their usage because it is not practical for to staff to evaluate and determine if 25,431 parcels are zoned according to their use.

Option 3: Resolution #11-R-16 proposed by Alderperson Siebers to initiate a zoning map amendment (rezoning) for seven (7) properties along North Fair Street (139, 202, 209, 210, 211, 214, and 219 North Fair Street) *is primarily intended to serve an individual* rather than the general public interest and the benefiting party shall submit to the Community and Economic Development Department a complete application for rezoning and the nonrefundable \$450 filing fee pursuant to Section 23-65(d)(2) of the Zoning Ordinance.

Option 4: Resolution #11-R-16 proposed by Alderperson Siebers to initiate a zoning map amendment (rezoning) for seven (7) properties along North Fair Street (139, 202, 209, 210, 211, 214, and 219 North Fair Street) *is primarily intended to serve a narrow interest* rather than the general public interest and the benefiting party shall submit to the Community and Economic Development Department a complete application for rezoning and the nonrefundable \$450 filing fee pursuant to Section 23-65(d)(2) of the Zoning Ordinance.

Option 5: Resolution #11-R-16 proposed by Alderperson Siebers to initiate a zoning map amendment (rezoning) for seven (7) properties along North Fair Street (139, 202, 209, 210, 211, 214, and 219 North Fair Street) **BE APPROVED**, subject to a rezoning application and the nonrefundable \$450 filing fee pursuant to Section 23-65(d)(1) and (2) of the Zoning Ordinance being submitted and signed by all participating property owners to the Community and Economic Development Department.



City of Appleton

100 North Appleton Street Appleton, WI 54911-4799 www.appleton.org

Meeting Agenda Finance Committee

Tuesday, October 25, 2016

4:30 PM

Council Chambers, 6th Floor

- Call meeting to order
- 2. Roll call of membership
- 3. Approval of minutes from previous meeting

16-1545

September 13, 2016, September 21, 2016 and October 5, 2016 Finance

Committee minutes

Attachments: MeetingMinutes13-Sep-2016-12-32-46.pdf

MeetingMinutes21-Sep-2016-12-34-01.pdf
MeetingMinutes05-Oct-2016-12-01-23.pdf

- 4. Public Hearings/Appearances
- Action Items

<u>16-1548</u> CEA Review Committee Report for September 20, 2016

Attachments: MeetingMinutes20-Sep-2016-12-46-03.pdf

16-1585

Request to approve request from Alderperson Siebers that special assessments for sanitary laterals, storm sewer and storm sewer laterals for properties on Fair Street that are zoned Commercial and R3 with single family residential use be assessed as Single Family.

Attachments: Fair St Spec Assessment.pdf

...meeting community needs...enhancing quality of life."

TO:

Finance Committee

FROM:

Paula Vandehey, Director of Public Works PAV

DATE:

October 6, 2016

RE:

Request from Alderperson Siebers that special assessments for sanitary laterals, storm sewer and storm sewer laterals for properties on Fair Street that are zoned Commercial and R3 with single family residential use be

assessed as Single Family.

The Special Assessment Policy, adopted by the City Council annually, establishes assessment rates based on zoning, not usage. This philosophy has been debated many times over the 100 plus years of our Assessment Policy. The policy has continued to be based on zoning as it is an easily documented way to levy assessments versus use which could change without documentation (i.e. the City's parcel information includes a zoning category, but not a use category).

The properties being assessed as part of the Fair Street Project are as follows:

TAXID	Owner's Name	Property Address	Mailing Address	Assessment	If Single family
5-1132	Stacey Staffeld	214 N. Fair Street	214 N. Fair Street	\$ 3,070.40	\$ 760.00
5-1134	Marc Daverveld	210 N. Fair Street	210 N. Fair Street	\$ 2,898.00	\$ 722,00
5-1136	Deanna Slewert	202 N. Fair Street	202 N. Fair Street	\$ 3,096.00	\$ 760.00
5-1143	Francine Rabideau	219 N. Fair Street	219 N. Fair Street	\$ 2,560.00	\$ 760.00
5-1145	Michael Weber	211 N. Fair Street	63 Bellaire Court	\$ 2,160.00	\$ 760.00
5-1146	James Christman ET AL	7209 N. Fair Street	PO Box 2372	\$ 2,160.00	\$ 760.00
5-1149	Michael Laux	139 N. Fair Street	Meguon, WI	\$ 3,200.00	\$ 760.00
_P ==			TOTAL	\$ 19,144.40	\$ 5,282.00
				i	

Alderperson Siebers is requesting that the special assessments for sanitary laterals, storm sewer and storm sewer laterals for properties on Fair Street that are zoned Commercial and R3 with single family use be assessed as Single Family.

Attachment

July 4

September 5

November 24 & 25 December 23, 24, 25

Email Address *

siebersw@yahoo.com

First Name: Last Name: William Siebers

Address:

1109 N. Appleton Street

City: State: Zip Code: Appleton Wisconsin 54911 9207344204

Phone Number Fax Number:

Not answered

Comments/Questions

I have a situation in my district - 200 block of North Fair Street. Sewer and lateral work was done on the street. The block has a mix of zoning - mostly commercial - though all the usage is residential - and much is single family and on the low end of the value scale. Here is the problem, they got their assessment notices and at least two of them have stated that they feel the assessments are unfair when compared to assessments of areas nearby - because those properties are zoned residential. Is there any avenue these property owners can take in seeing if their assessments can be reduced? Alderperson William Siebers

Thank you, Appleton, Wi

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REPORT TO CITY PLAN COMMISSION

Plan Commission Meeting Date: January 9, 2017

Common Council Meeting Date: January 18, 2017

Item: Extraterritorial Final Plat – White Hawk Meadows

North 3 – Town of Grand Chute

Case Manager: Don Harp

GENERAL INFORMATION

Owner: Glen Scherwinski, Rubble Development, LLC - applicant/owner

Applicant: Davel Engineering & Environmental Inc.

Address/Parcel #: East of North Lynndale Drive (C.T.H. "A") in the Town of Grand Chute – Parcel #101030600

Petitioner's Request: The applicant is proposing to subdivide property under the Town's RSF zoning district for residential development. The area of this final plat is 5.2 acres which will be divided into 10 lots.

BACKGROUND

The Final Plat must also be reviewed and approved by the Town of Grand Chute and Outagamie County.

The Preliminary Plat was approved by the Common Council on June 18, 2014. The Common Council approved the Final Plat for the first phase on August 6, 2014 and the second phase on May 20, 2015.

STAFF ANALYSIS

Existing Conditions: This is undeveloped land located in the Town of Grand Chute, east of North Lynndale Drive (C.T.H. "A").

Surrounding Zoning and Land Uses: The surrounding area is under the jurisdiction of the Town of Grand Chute. The uses are generally of a residential nature.

2010-2030 Comprehensive Plan: The Community & Economic Development staff has reviewed the City's 2010-2030 Comprehensive Plan and determined this proposed subdivision is outside the City of Appleton's growth area.

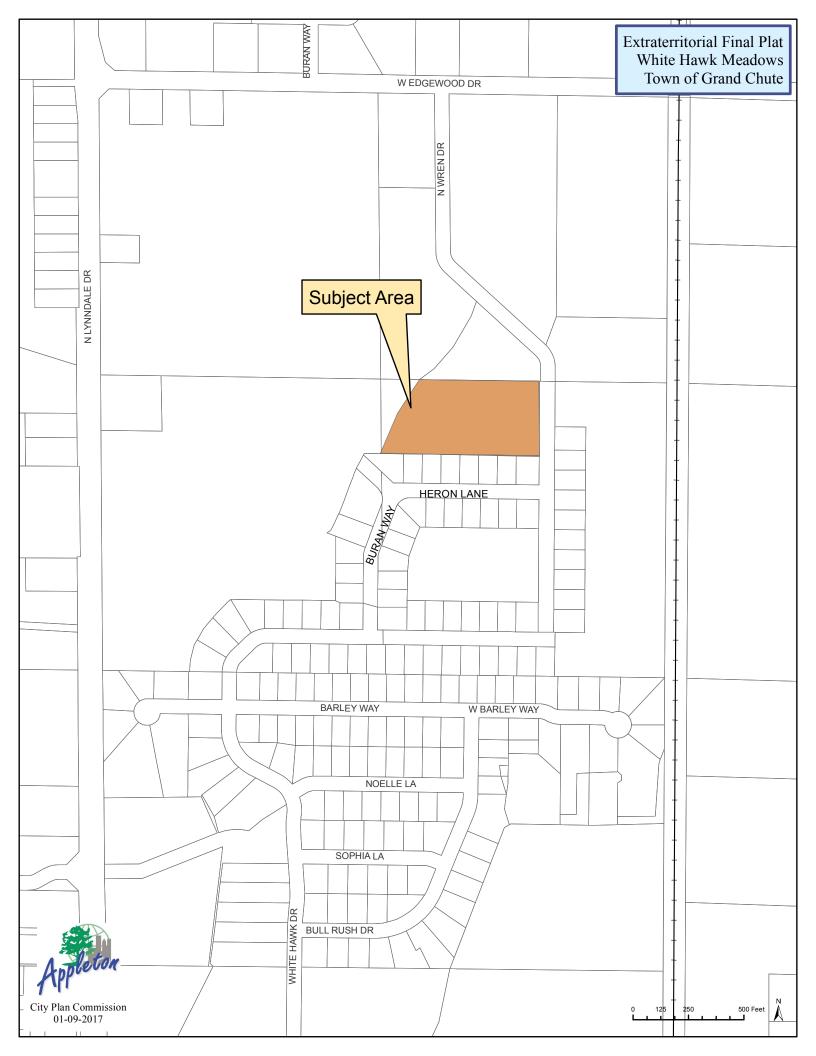
Review Criteria: The Community & Economic Development staff has reviewed the Extraterritorial Final Plat in accordance with the City of Appleton Zoning Ordinance requirements for single-family residential developments. The lot sizes and lot widths for the lots in this Town of Grand Chute subdivision exceed minimum City of Appleton Zoning Ordinance requirements. The Final Plat layout is consistent with the Preliminary Plat layout.

Extraterritorial Final Plat - White Hawk Meadows North 3 - Town of Grand Chute January 9, 2017
Page 2

Technical Review Group Report (TRG): This item was reviewed by members of the Technical Review Group. No negative comments were received from participating departments.

RECOMMENDATION_

Based on the above, staff recommends that the Extraterritorial Final Plat – White Hawk Meadows North 3 located in the Town of Grand Chute, as shown on the attached maps, **BE APPROVED**.



This subdivision Final Plat is subject to all of the requirements of Section 6.16 (E) Municipal Code of the Town of Grand Chute. The subdivider, for himself / itself, and his / its assigns, shall be responsible for all municipal improvements, including graveled and blacktopped streets, graveled road shoulders, sewer and water, curb and gutter if determined necessary by the Town of Grand Chute Board of Supervisors, sewer lift stations when determined necessary by the Town of Grand Chute Board of Supervisors, storm sewers when determined necessary by the Town of Grand Chute Board of Supervisors, dedicated and open clear water drainage easements, landscaping and street lighting. Pursuant to Section 6.16 (E) Municipal Code of the Town of Grand Chute, the Town of Grand Chute reserves the right to withhold building permits for this subdivision if the above stated municipal improvements have not been completed in a timely and orderly fashion by the subdivider / owner, according to the terms and conditions of 6.16 (E). That, in addition, all subdividers and property owners are put on notice that a three hundred dollar (\$350.00) hookup contribution charge for sewer services may be payable by each lot within the platted subdivision to the Town of Grand Chute Sanitary District for sewer services. Furthermore, where decorative street lighting is requested by the owner / subdivider, the difference in cost between regular street lighting and decorative street lighting will be assessed annually to property owners within the subdivided areas, on an annual cost basis as incurred by the Town of Grand Chute, plus the Town of Grand Chute's annual interest charge; the Town of Grand Chute shall be responsible only for base and regular street lighting costs at intersections and cul-de-sacs, with any excess lighting costs as requested by the subdivider or property owners being assessed directly to the abutting property owners.

Impact Fee Note

There is an impact fee due on each lot in accordance with Chapter 330 Impact Fees of the Town Code of Ordinances and as listed on the most current Town of Grand Chute Impact Fee Schedule.

Wetlands Notes

Wetland shown on map are from the Wetlands Determination & Delineation Report, preformed by Brian Bates, dated August 29, 2003.

Disturbing or filling of wetland will not be allowed with out state and local permits.

Unless otherwise noted, a drainage easement exists upon all existing navigable streams between the meander lines as shown.

	CURVE TABLE									
Curve	Radius	Chord Direction	Chord Length	Arc Length	Central Angle	Tangent Bearing-in	Tangent Bearing-out			
C1	60.00'	N 25°22'20" W	50.00'	51.57'	49°14'55"	N 49°59'48" W	N 00°44'53" W			
C2	60.00'	N 51°32'43" E	35.88'	36.44'	34°47'51"	N 34°08'48" E	N 68°56'39" E			
C3	60.00'	S 80°31'34" E	60.96'	63.94'	61°03'33"	N 68°56'39" E	S 49°59'48" E			
C4	60.00'	S 25°22'20" E	50.00'	51.57'	49°14'55"	S 49°59'48" E	S 00°44'53" E			
C5	60.00'	S 23°52'35" W	50.00'	51.57'	49°14'55"	S 00°44'53" E	S 48°30'03" W			
C6	60.00'	S 79°01'49" W	60.96'	63.94'	61°03'33"	S 48°30'03" W	N 70°26'24" W			
C7	60.00'	N 51°30'49" W	38.92'	39.64'	37°51'09"	N 70°26'24" W	N 32°35'15" W			

- 1. All linear measurements have been made to the nearest one hundredth of a foot.
- 2. All angular measurements have been made to the nearest 20 seconds and computed to the nearest half seconds.
- 3. All homes constructed in the Flood Fringe must meet the County flood proofing standards or a LOMA is obtained from FEMA prior to building permit being issued.
- Lots 73-77, are located within 300 feet of a navigable stream and will require Shoreland Zoning Permit from the Outagamie County planning office.

There are no objections to this plat with respect to Secs. 236.15, 236.16, 236.20 and 236.21(1) and (2), Wis. Stats. as provided by s. 236.12, Wis. Stats.

Certified _______, 20_____

James R. Sehloff, PLS 2692 Date

File: 2968Final3.dwg
Date: 11/17/2016
Drafted By: Jim
Sheet: 1 of 2
Revision Date: Nov 17, 2016



Department of Administration

White Hawk Meadows North 3

Part of Lot 1, CSM 6807, being located in part of the Southwest 1/4 of the Northeast 1/4 and the Southeast 1/4 of the Northeast 1/4, Section 9, Township 21 North, Range 17 East, Town of Grand Chute, Outagamie County, Wisconsin

Utility Easement Provisions

Surveyor's Certificate

I, James R. Sehloff, Professional Land Surveyor, hereby certify: That in full compliance with the provisions of Chapter 236 of the Wisconsin Statutes and the subdivision regulations of the Town of Grand Chute and Outagamie County, and under the direction of Rubble Development, LLC, owner of said land, I have surveyed divided and mapped White Hawk Meadows North 3; that such plat correctly represents all exterior boundaries and the subdivision of the land surveyed; and that this land is part of Lot 1, CSM 6807, being located in the Southwest 1/4 of the Northeast 1/4 and part of the Southeast 1/4 of the Northeast 1/4 of Section 9, Township 21 North, Range 17 East, Town of Grand Chute, Outagamie County, Wisconsin, containing 229,273 Square Feet (5.2633 Acres) of land, more or less, including the lands between the meander line and the centerline of a navigable stream described as follows:

Commencing at the East 1/4 corner of Section 9; thence, along the East line of the Northeast 1/4 of said Section 9, N00°30'11"E, 996.77 feet; thence N89°13'13"W, 611.06 feet, to a point on the Westerly right of way line of Wren Drive said point also being the point of beginning; thence, along the North line of White Hawk Meadows North 2, N89°13'13"W 753.19' to a meander corner lying, S89°13'13"W, 37 feet more or less from the centerline of a navigable stream; thence, along a meander line, N37°52'24"E, 422.55 feet to a meander corner, on the North line of the Southeast 1/4 of the Northeast 1/4, being N89°11'37"W 49 feet more or less from said centerline of a navigable stream; thence, along said North line, S89°11'37"E 495.75 feet to said Westerly right of way line of Wren Drive; thence along said Westerly right of way line S00°20'21"W 336.83' to the point of beginning, subject to all easements and restrictions of record.

Given under my hand this _____ day of _____, ____.

James R. Sehloff, Wisconsin Professional Land Surveyor No. S-2692
Owner's Certificate of Dedication
Rubble Development, LLC, a limited liability company duly organized and existing under and by virtue of the laws of the State of Wisconsin, as owner, does hereby certify that said limited liability company caused the land described on this plat to be surveyed divided, mapped and dedicated as represented on this plat.
Rubble Development, LLC, does further certify this plat is required by s.236.10 or s.236.12 to be submitted to the following for approval or objection:
Outagamie County Planning and Zoning Committee Town of Grand Chute City of Appleton Department of Administration
Dated this day of, 20
In the presence of: Rubble Development, LLC
Glen Scherwinski, Managing Member
State of Wisconsin)
County) ss
Personally came before me this day of, 20, the above owner(s) to me known to be the persons who executed the foregoing instrument and acknowledge the same.
My Commission Expires Notary Public, Wisconsin.

Rubble Development, LLC, grantors, to		
WISCONSIN ELECTRIC POWER COM Energies, Grantee SBC, Grantee	PANY, a Wisconsin corporation doing busi	ness as We
and		
Time Warner Cable, Grantee		
replace from time to time, facilities used distribution of electricity and electric enused and for sounds and signals, all in, those areas on the plat designated as "for streets and alleys, whether public or across within and beneath the surface also the right to trim or cut down trees, rights herein given and the right to ente Grantees agree to restore or cause to have condition existing prior to such entry not apply to the initial installation of said communication facilities or to any trees the rights herein granted. Buildings shapproperty within the lines marked "Utility Grantees. After installation of any such by more than four inches without the with the grant of easement shall be binding.	and assigns, to construct, install operate, repair, in connection with overhead and underground argy for such purposes as the same is now and over, under, across, along and upon the property design private, together with the right to install service of each lot to serve improvements thereon, or or or or the subdivided property for all such purpose ave restored, the property, as nearly as is reason by the Grantees or their agents. This restorate underground and/or above ground electrical far brush or roots which may be removed at any time. In not be placed over Grantees facilities or in, up assement Areas" without the prior written consequences are the grade of the subdivided property staten consent of grantees.	transmission and may hereafter be try shown within lated on the plat connections upon adjacent lots; incident to the bases. The basis and possible, to on, however, does cilities or me pursuant to bon or over the ent of the shall not be altered
assigns of all parties hereto.	apon and mare to the serious of the none, edece	occio ana
Rubble Development, LLC		
Managing Member	Date	
Managing Member Town Board Approval Certificate	Date	
Town Board Approval Certificate Resolved, that the plat of White Hawk N	Date	
Town Board Approval Certificate Resolved, that the plat of White Hawk N Rubble Development, LLC, owner, is he	eadows North 3 in the Town of Grand Chute, C reby approved by the Town Board of the Town	
Town Board Approval Certificate Resolved, that the plat of White Hawk N Rubble Development, LLC, owner, is he Chairman I hereby certify that the foregoing is a certify	eadows North 3 in the Town of Grand Chute, C	of Grand Chute.
Town Board Approval Certificate Resolved, that the plat of White Hawk N Rubble Development, LLC, owner, is he Chairman	eadows North 3 in the Town of Grand Chute, C reby approved by the Town Board of the Town 	of Grand Chute.
Town Board Approval Certificate Resolved, that the plat of White Hawk M Rubble Development, LLC, owner, is he Chairman I hereby certify that the foregoing is a confidence of the confidence	eadows North 3 in the Town of Grand Chute, Coreby approved by the Town Board of the Town Date py of a resolution adopted by the Town Board of	of Grand Chute.
Town Board Approval Certificate Resolved, that the plat of White Hawk Mendel Development, LLC, owner, is head. Chairman I hereby certify that the foregoing is a conformant of the County of the County of the County, do hereby certify that in according the County, do hereby certify that in according the County of the Coun	eadows North 3 in the Town of Grand Chute, Coreby approved by the Town Board of the Town Date py of a resolution adopted by the Town Board of	of Grand Chute. of the Town of e and Outagamie unredeemed tax
Town Board Approval Certificate Resolved, that the plat of White Hawk Mendel Development, LLC, owner, is head. Chairman I hereby certify that the foregoing is a conformant of the County of the County of the County, do hereby certify that in according the County, do hereby certify that in according the County of the Coun	leadows North 3 in the Town of Grand Chute, Coreby approved by the Town Board of the Town Date Date Date Date Date Date Date Date	of Grand Chute. of the Town of e and Outagamie unredeemed tax

City of Appleton Approval (Extraterritorial)				
Resolved, that the plat of White Hawk Meadows North 3 in the Town of Grand Chute, Outagamie County, Rubble Development, LLC, owner, is hereby approved by the Common Council of the City of Appleton.				
Mayor	Date			
I hereby certify that the foregoing is a copy of a resolution adopted by the the Common Council of the City of Appleton.				
Clerk				
County Planning Agency Approval Certificate				
Resolved, that the plat of White Hawk Meadows North 3 in the Town of Grand Chute, Outagamie County, Rubble Development, LLC, owner, is hereby approved by Outagamie County.				
County Zoning Administrator	Date			
This Final Plat is contained wholly within the property described in the following recorded instruments:				
the property owner of record:	Recording Information:	Parcel Number(s):		

Doc No. 1999196

There are no objections to this plat with respect to Secs. 236.15, 236.16, 236.20 and 236.21(1) and (2), Wis. Stats. as provided by s. 236.12, Wis. Stats.

Part of 101-0306-00

Department of Administration

File: 2968Final3.dwg Date: 11/17/2016 Drafted By: Jim Sheet: 2 of 2

Rubble Development, LLC

DAVEL ENGINEERING & ENVIRONMENTAL, INC. CIVIL ENGINEERING CONSULTANTS 1811 Racine Street Menasha, WI 54952 Ph: 920-991-1866 Fax: 920-830-9595 www.davel.pro Revision Date: Nov 17, 2016

James R. Sehloff, PLS 2692

County Treasurer

Date



REPORT TO CITY PLAN COMMISSION

Plan Commission Meeting Date: January 9, 2017

Common Council Meeting Date: January 18, 2017

Item: Extraterritorial Final Plat – Edgewood Acres Third

Addition – Town of Grand Chute

Case Manager: David Kress

GENERAL INFORMATION

Owner: GCW Investments, LLC c/o Pat Kaster

Applicant: Mach IV Engineering & Surveying c/o Randy Oettinger

Address/Parcel #: West of North Richmond Street (S.T.H. "47") and south of West Edgewood Drive (C.T.H. "JJ") in the Town of Grand Chute – Parcel #102534704

Petitioner's Request: The applicant is proposing to subdivide property under the Town's RSF zoning district for residential development. The area is 36.26 acres, which will be divided into 34 lots and 4 outlots.

BACKGROUND

The Preliminary Plat of Edgewood Acres was approved by Common Council on March 2, 2011. The Final Plat for Edgewood Acres was approved by Common Council on January 16, 2013. The Final Plat for Edgewood Acres First Addition was approved by Common Council on November 5, 2014. The Final Plat for Edgewood Acres Second Addition was approved by Common Council on October 21, 2015.

The Final Plat for Edgewood Acres Third Addition must also be reviewed and approved by the Town of Grand Chute and Outagamie County.

STAFF ANALYSIS

Existing Conditions: The subject area consists of undeveloped land located in the Town of Grand Chute, south of West Edgewood Drive. Delineated wetlands exist on the property. Access to the development will be obtained from an extension of Indigo Lane, which will connect to West Edgewood Drive and West Elsner Road.

Comparison between Final Plat and Preliminary Plat: The Final Plat is similar to the Preliminary Plat in terms of its general configuration. However, several modifications have been made. The Final Plat features a horseshoe-style street (Milkweed Trail and Silk Wood Circle) instead of two cul-de-sacs. Also, the Final Plat includes additional lots east of Indigo Lane and north of Milkweed Trail.

Surrounding Zoning and Land Uses: The surrounding area is under the jurisdiction of the Town of Grand Chute, and the uses are generally residential and agricultural in nature. The surrounding zoning is RSF Single-Family Residential District and AGD General Agricultural District.

Extraterritorial Final Plat – Edgewood Acres Third Addition – Town of Grand Chute January 9, 2017 Page 2

Comprehensive Plan 2010-2030: Community & Economic Development staff has reviewed the City's *Comprehensive Plan 2010-2030* and determined this proposed subdivision is outside the City of Appleton's growth area.

Review Criteria: Community & Economic Development staff has reviewed the Extraterritorial Final Plat in accordance with the City of Appleton Subdivision Ordinance, as well as Zoning Ordinance requirements for single-family residential developments. The proposed lots range in size from 10,095 square feet to 264,291 square feet. Typical lot dimensions are 90 feet by 135 feet. The lot sizes and lot widths for the proposed lots in this Town of Grand Chute subdivision exceed minimum City of Appleton Zoning Ordinance requirements.

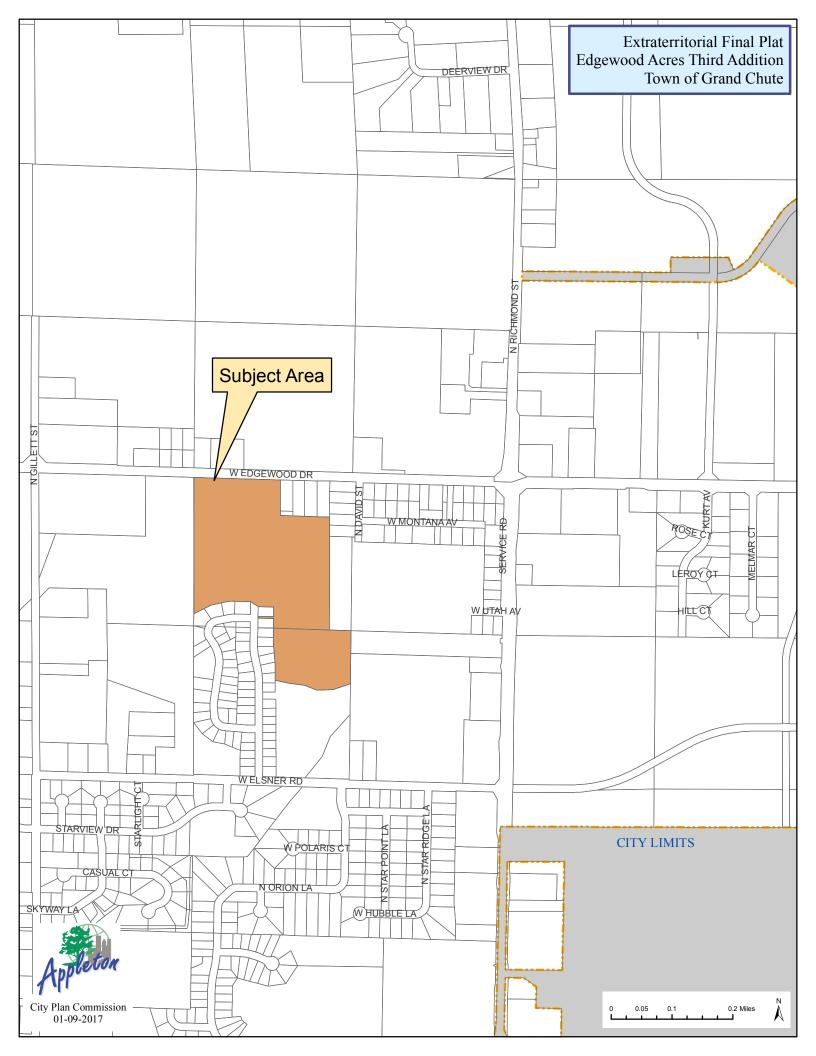
Additional Comments: Several issues do not impact the City, but may warrant consideration from the Town of Grand Chute and/or Outagamie County:

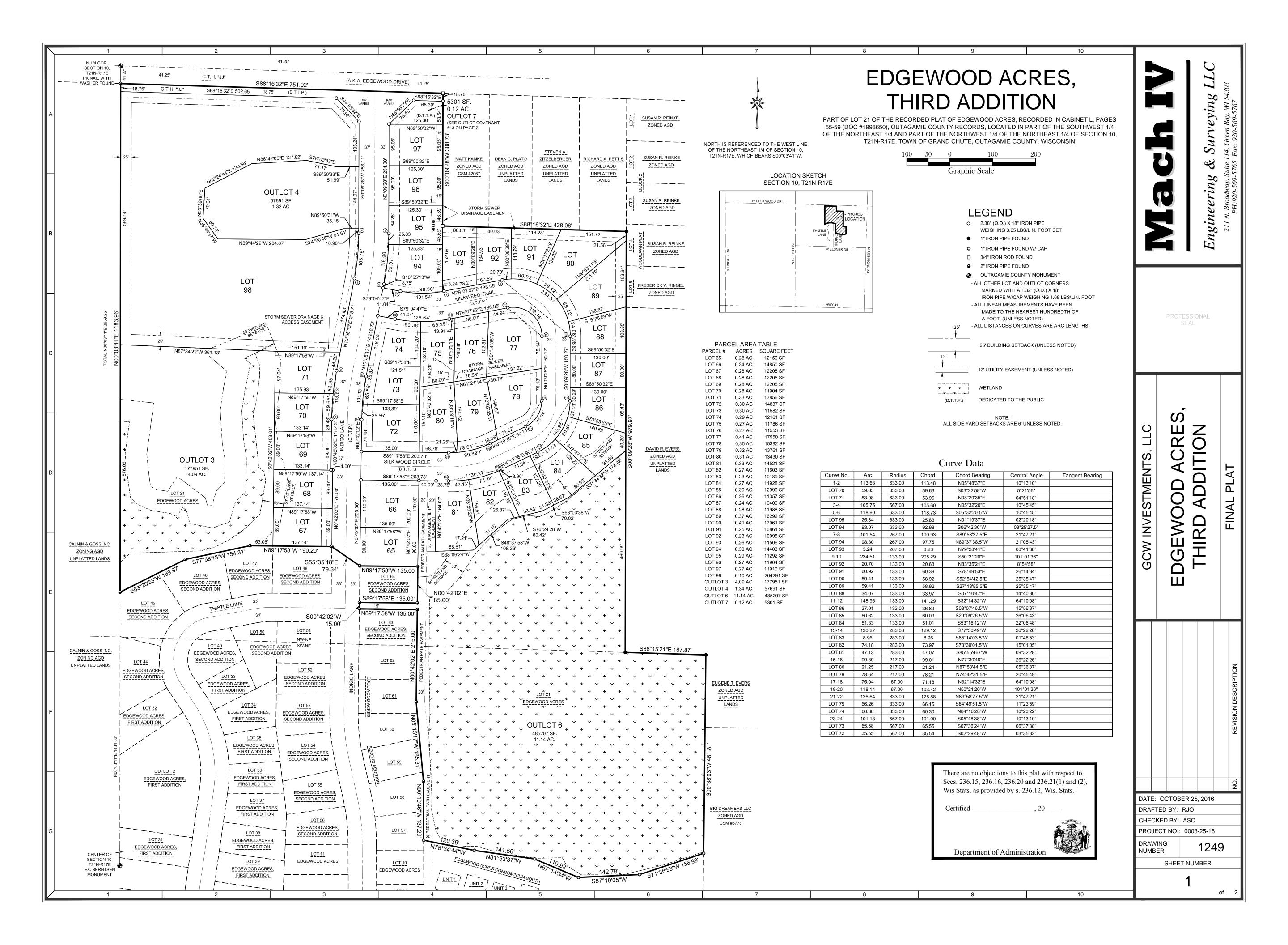
- The front yard setback is not shown for Lots #65 and #66, as well as Outlots #6 and #7.
- Aerial photography and the Preliminary Plat identify ponds on the property, but these features are not shown on the Final Plat. Per Section 17-12(b)(10) of the Appleton Municipal Code, the Final Plat shall show normal and high-water elevation of all ponds, streams, lakes, flowages and wetlands within the exterior boundaries of the plat.
- Outlots #3, #4, #6, and #7 are not consecutively numbered.
- The street name Silk Wood Circle does not meet the City's one word street name standard. Also, using two street names, Milkweed Trail and Silk Wood Circle, does not meet the City's street name standard for horseshoe-style streets that have a T intersection.

Technical Review Group (TRG) Report: This item was discussed at the December 20, 2016 Technical Review Group meeting. No negative comments were received from participating departments.

RECOMMENDATION

Based on the above, staff recommends that the Extraterritorial Final Plat – Edgewood Acres Third Addition located in the Town of Grand Chute, as shown on the attached maps, **BE APPROVED**.





EDGEWOOD ACRES, THIRD ADDITION

PART OF LOT 21 OF THE RECORDED PLAT OF EDGEWOOD ACRES, RECORDED IN CABINET L, PAGES 55-59 (DOC #1998650), OUTAGAMIE COUNTY RECORDS, LOCATED IN PART OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 AND PART OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 10, T21N-R17E, TOWN OF GRAND CHUTE, OUTAGAMIE COUNTY, WISCONSIN.

UTILITY EASEMENT PROVISIONS

AN EASEMENT FOR ELECTRICAL AND COMMUNICATIONS SERVICE IS HEREBY GRANTED BY GCW INVESTMENT'S LLC.

GRANTOR TO: WE-ENERGIES-ELECTRIC, WE-ENERGIES-GAS OPERATIONS, SBC-AMERITECH, TIME WARNER CABLE AND TOWN OF GRAND CHUTE UTILITIES GRANTEES. TO THEIR RESPECTIVE SUCCESSORS AND ASSIGNS, TO CONSTRUCT, INSTALL, OPERATE, REPAIR, MAINTAIN AND REPLACE FROM TIME TO TIME, FACILITIES USED IN CONNECTION WITH OVERHEAD AND UNDERGROUND TRANSMISSION AND DISTRIBUTION OF ELECTRICITY, AND ELECTRIC ENERGY FOR SUCH PURPOSES AS THE SAME IS NOW OR MAY HEREAFTER BE USED FOR SOUNDS AND SIGNALS, ALL IN, OVER, UNDER, ACROSS, ALONG AND UPON THE PROPERTY SHOWN WITHIN THOSE AREAS ON THE PLAT DESIGNATED AS "UTILITY EASEMENT" AREAS AND THE PROPERTY DESIGNATED ON THE PLAT FOR STREETS, WETHER PUBLIC OR PRIVATE, TOGETHER WITH THE RIGHTS TO INSTALL SERVICE CONNECTIONS UPON, ACROSS, WITHIN AND BENEATH THE SURFACE OF EACH LOT TO SERVE IMPROVEMENTS THEREON. OR ON ADJACENT LOTS ALSO THE RIGHT TO TRIM OR CUT DOWN TREES, BRUSH AND ROOTS AS MAY BE REASONABLY REQUIRED INCIDENT TO THE RIGHTS HEREIN GIVEN, AND THE RIGHT TO ENTER UPON THE SUBDIVIDED PROPERTY FOR ALL SUCH PURPOSES. THE GRANTEES AGREE TO RESTORE OR CAUSED TO HAVE RESTORED, THE PROPERTY, AS NEARLY AS IS REASONABLY POSSIBLE, TO THE CONDITIONS EXISTING PRIOR TO SUCH ENTRY BY THE GRANTEES OR THEIR AGENTS. THIS RESTORATION, HOWEVER, DOES NOT APPLY TO THE INITIAL INSTALLATION OF SAID UNDERGROUND AND/OR ABOVE GROUND ELECTRIC FACILITIES OR COMMUNICATIONS FACILITIES OR TO ANY TREES, BRUSH OR ROOTS WHICH MAY BE REMOVED AT ANY TIME PURSUANT TO THE RIGHTS HEREIN GRANTED. BUILDINGS SHALL NOT BE PLACED OVER GRANTEES FACILITIES OR IN, UPON OR OVER THE PROPERTY WITHIN THE LINES MARKED "UTILITY EASEMENT" WITHOUT THE PRIOR WRITTEN CONSENT OF GRANTEES. AFTER INSTALLATION OF ANY SUCH FACILITIES, THE GRADE OF THE SUBDIVIDED PROPERTY SHALL NOT BE ALTERED BY MORE THAN 4 INCHES WITHOUT THE WRITTEN CONSENT OF GRANTEES.

THE GRANT OF EASEMENT SHALL BE BINDING UPON AND INURE TO THE BENEFIT OF THE HEIRS, SUCCESSORS AND ASSIGNS OF ALL PARTIES HERETO.

NO UTILITY POLES, PEDESTALS, TRANSFORMERS OR BURIED CABLES ARE TO BE PLACED WITHIN 2 FEET OF A SURVEY STAKE OR OBSTRUCT VISION ALONG ANY LOT LINE OR STREET LINE.

THE DISTURBANCE OF A SURVEY STAKE BY ANYONE IS A VIOLATION OF SECTION 236.32 OF THE WISCONSIN STATUTES. UTILITY EASEMENTS AS HEREIN SET FORTH ARE FOR THE USE OF PUBLIC BODIES AND PRIVATE PUBLIC UTILITIES HAVING THE RIGHT TO SERVE THE AREA.

SURVEYOR'S CERTIFICATE

I. RANDALL J. OETTINGER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY:

THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF CHAPTER 236, WISCONSIN STATUTES, AND THE SUBDIVISION REGULATIONS OF THE TOWN OF GRAND CHUTE AND OUTAGAMIE COUNTY AND UNDER THE DIRECTION OF THE OWNERS LISTED HEREON, I HAVE SURVEYED, DIVIDED AND MAPPED "EDGEWOOD ACRES, THIRD ADDITION", AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES AND THE SUBDIVISION OF THE LAND SURVEYED AND IS PART OF LOT 21 OF THE PLAT OF "EDGEWOOD ACRES", RECORDED IN CABINET L, PAGES 55-56 (DOC. #1998650), OUTAGAMIE COUNTY RECORDS, SAID PLAT LOCATED IN PART OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 AND PART OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 10, TOWNSHIP 21 NORTH, RANGE 17 EAST, TOWN OF GRAND CHUTE, OUTAGAMIE COUNTY WISCONSIN MORE FULLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 10, T21N-R17E; THENCE S00°03'41"W, 41.27 FEET ALONG THE NORTH-SOUTH 1/4 OF SAID SECTION 10, SAID LINE ALSO BEING THE WEST LINE OF LOT 21 OF THE PLAT OF EDGEWOOD ACRES, RECORDED IN CABINET L, PAGES 55-56 (DOC. #1998650), OUTAGAMIE COUNTY RECORDS TO THE SOUTH RIGHT OF WAY LINE OF C.T.H. JJ (A.K.A. EDGEWOOD DRIVE) AND THE POINT OF BEGINNING; THENCE S88°16'32"E, 751.02 FEET ALONG SAID SOUTH RIGHT-OF-WAY: THENCE S00°09'28"W, 308.73 FEET ALONG THE WEST LINE OF CERTIFIED SURVEY MAP NO. 2067 AND IT'S EXTENSION THEREOF; THENCE S88°16'32"E, 428.06 FEET TO THE WEST LINE OF THE RECORDED "WOODLAWN PLAT": THENCE S00°09'28"W 979 97 FEET ALONG SAID WEST LINE AND IT'S EXTENSION THEREOF: THENCE S88°15'21"E 187.87 FEET ALONG THE NORTH LINE OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 10; THENCE S00°38'03"W, 461.81 FEET ALONG THE FAST LINE OF THE WEST 1/2 OF THE NORTHEAST 1/4 OF SAID SECTION 10: THENCE S71°36'53"W 156.99 FEET ALONG THE NORTH LINE OF EDGEWOOD ACRES CONDOMINIUM SOUTH PLAT, RECORDED IN CABINET M, PAGE 178 AS DOCUMENT # 2088047, OUTAGAMIE COUNTY RECORDS; THENCE S87°19'05"W, 142.78 FEET ALONG SAID PLAT; THENCE N67°14'34"W, 110.92 FEET ALONG SAID PLAT; THENCE N81°53'37"W, 141.56 FEET ALONG SAID PLAT; THENCE N78°34'44"W, 120.39 FEET ALONG SAID PLAT; THENCE N00°10'46"W, 137.29 FEET ALONG THE EAST LINE OF LOTS 57 AND 58 OF THE PLAT OF EDGEWOOD ACRES, SECOND ADDITION, RECORDED IN CABINET M, PAGES 39 AND 40 (DOC. #2072672), OUTAGAMIE COUNTY RECORDS: THENCE N05°13'17"W, 185.31 FEEAT ALONG THE EAST LINE OF LOTS 58, 59,60 AND 61 OF SAID PLAT: THENCE N00°42'02"E, 215.00 FEET ALONG THE EAST LINE OF LOTS 61, 62 AND 63 OF SAID PLAT; THENCE N89°17'58"W, 135.00 FEET ALONG THE NORTH LINE OF SAID LOT 63 TO THE EAST RIGHT OF WAY LINE OF INDIGO LANE; THENCE N00°42'02"E, 15.00 FEET ALONG SAID LINE; THENCE S89°17'58"E, 135.00 FEET LONG THE SOUTH LINE LOT LOT 64 OF SAID PLAT; THENCE N00°42'02"E. 85.00 FEET ALONG THE EAST LINE OF SAID LOT 64: THENCE N89°17'58"W. 135.00 FEET ALONG THE NORTH LINE OF SAID LOT 64 TO SAID EAST RIGHT OF WAY LINE OF INDIGO LANE; THENCE N55°35'18"W, 79.34 FEET TO THE WEST RIGHT OF WAY OF SAID LANE; THENCE N89°17'58"W, 190.20 FEET ALONG THE NORTH LINE OF LOTS 47 AND 48 OF SAID EDGEWOOD ACRES, SECOND ADDITION PLAT: THENCE S77°58'18"W. 154.31 FEET ALONG THE NORTH LINE OF LOTS 46 AND 47 OF SAID PLAT; THENCE S63°20'33"W, 169.97 FEET ALONG THE NORTH LINE OF LOTS 45 AND 46 OF SAID PLAT; THENCE N00°03'41"E, 1183.96 FEET ALONG THE WEST LINE OF LOT 21 OF THE PLAT OF EDGEWOOD ACRES, TO THE POINT OF BEGINNING.

SAID PARCEL CONTAINS 1,579,637 SQ. FT.\ 36.26 ACRES OF LAND, MORE OR LESS. SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.

ROAD DEDICATION CONTAINS 166,564 SQ. FT.\ 3.82 ACRES OF LAND, MORE OR LESS.

RANDALL J. OETTINGER PLS-2349

NOVFMBER 01, 2016 REVISED DECEMBER 07, 2016 (WIDEN R/W ON INDIGO LANE)

CONSENT OF CORPORATE MORTGAGEE

COMMUNITY FIRST CREDIT UNION, A CORPORATION DULY ORGANIZED AND EXISTING UNDER AND BY VIRTUE OF THE LAWS OF WISCONSIN, MORTGAGEE OF THE ABOVE DESCRIBED LAND, DOES HEREBY CONSENT TO THE SURVEYING, DIVIDING, MAPPING AND DEDICATION OF THE LAND DESCRIBED ON THIS PLAT AND DOES HEREBY CONSENT TO THE ABOVE CERTIFICATE OF GCW INVESTMENT'S LLC, OWNER. IN WITNESS WHEREOF, L.A. ENTERPRISES LLC HAS CAUSED THESE PRESENTS TO BE SIGNED BY

, ITS AND COUNTERSIGNED BY (PRINT NAME #1 ABOVE) (PRINT TITLE #1 ABOVE) (PRINT NAME #1 ABOVE) (PRINT TITLE #1 ABOVE)

(PRINT TITLE #2 ABOVE)

(PRINT TITLE #2 ABOVE)

(PRINT TITLE #2 ABOVE)

(CITY)

(STATE)

(DAY)

(MONTH) (PRINT NAME #1) (PRINT NAME #2)

_____, ____, THE ABOVE NAMED OFFICERS OF SAID CORPORATION TO M PERSONALLY CAME BEFORE ME THIS __ DAY OF __ KNOWN TO BE THE PERSONS WHO EXECUTED THE FOREGOING INSTRUMENT AND TO ME KNOWN TO BE SUCH OFFICERS OF SAID CORPORATION, AND ACKNOWLEDGED THAT THEY EXECUTED THE FOREGOING INSTRUMENT AS SUCH OFFICERS AS THE DEED OF SAID

CORPORATION, BY ITS AUTHORITY. NOTARY PUBLIC

STATE OF WISCONSIN] COUNTY OF

Department of Administration

MY COMMISSION EXPIRES ____

- 1. DUE TO THIS MAP BEING BASED ON THE OUTAGAMIE COUNTY COORDINATE SYSTEM, THE BEARINGS MAY NOT MATCH PREVIOUSLY RECORDED BEARINGS OF RECORD.
- 2. ALL PUBLIC ROADS WITHIN THE PLAT BOUNDARY ARE DEDICATED TO THE PUBLIC.
- 3. SIDEYARD SETBACK IS 6 FEET UNLESS NOTED. 4. REARYARD SETBACK IS 25 FEET UNLESS NOTED.
- 5. WETLAND DELINEATION BY MACH IV ENGINEERING & SURVEYING DATED OCTOBER 2010. WETLAND DELINEATION CONCURRENCE LETTER FROM WISCONSIN DEPARTMENT OF NATURAL RESOURCES DATED JUNE 11, 2012.
- 6. THE PROPERTY OWNER, AT THE TIME OF CONSTRUCTION, SHALL IMPLEMENT THE APPROPRIATE SOIL EROSION CONTROL METHODS OUTLINED IN THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES. "WISCONSIN CONSTRUCTION SITE BEST MANAGEMENT PRACTICE HANDBOOK" TO PREVENT SOIL EROSION. HOWEVER, IF THE TOWN OF GRAND CHUTE, AT THE TIME OF CONSTRUCTION, HAS ADOPTED A SOIL EROSION CONTROL ORDINANCE, IT SHALL GOVERN OVER THIS REQUIREMENT. THIS PROVISION APPLIES TO ANY CONSTRUCTION OR INSTALLATION RELATED ACTIVITIES ASSOCIATED WITH STREETS AND UTILITIES.

7. THE FINAL PLAT IS SUBJECT TO ALL OF THE REQUIREMENTS OF § 475-15E OF THE CODE OF THE TOWN OF GRAND CHUTE. THE SUBDIVIDER, FOR HIMSELF AND HIS ASSIGNS, SHALL BE RESPONSIBLE FOR ALL MUNICIPAL IMPROVEMENTS, INCLUDING ASPHALT SURFACE STREETS, GRAVELED ROAD SHOULDERS OR CURB AND GUTTER. SEWER AND WATER, SEWER LIFT STATIONS, STORM SEWERS, DEDICATED CLEAR WATER DRAINAGE EASEMENTS. AND STREET LIGHTING. PURSUANT TO § 475-15E OF THE CODE OF THE TOWN OF GRAND CHUTE, THE TOWN OF GRAND CHUTE RESERVES THE RIGHT TO WITHHOLD BUILDING PERMITS FOR THIS SUBDIVISION IF THE ABOVE-STATED MUNICIPAL IMPROVEMENTS HAVE NOT BEEN COMPLETED BY THE SUBDIVIDER ACCORDING TO THE TERMS AND CONDITIONS OF § 475-15E. UTILITY CONNECTION FEES (AS LISTED ON THE TOWN FEE SCHEDULE) FOR SEWER, WATER AND STORM SERVICES SHALL BE PAYABLE BY EACH LOT WITHIN THE PLATTED SUBDIVISION TO THE TOWN OF GRAND CHUTE SANITARY DISTRICTS. A SPECIAL STREET LIGHTING CHARGE, IN ACCORDANCE WITH THE PROCEDURES LISTED UNDER § 57-21, SPECIAL CHARGES FOR CURRENT SERVICES, SHALL BE ASSESSED ANNUALLY TO PROPERTY OWNERS OF EACH BUILDABLE LOT WITHIN THE SUBDIVISION FOR THE ENERGY AND FACILITY MAINTENANCE COSTS OF STREET LIGHTING WITHIN THE TOWN. ANY COSTS DUE TO STREET LIGHTING IN EXCESS OF THE STANDARDS WITHIN THE STREET LIGHTING POLICY, AS REQUESTED BY THE SUBDIVIDER OR PROPERTY OWNERS, SHALL BE ASSESSED DIRECTLY TO THE ABUTTING PROPERTY OWNERS.

8. THERE ARE IMPACT FEES DUE ON EACH PLATTED LOT IN THE SUBDIVISION, IN ACCORDANCE WITH § 330-IMPACT FEES, OF THE CODE OF THE TOWN OF GRAND CHUTE, AND IN AMOUNTS AS LISTED ON THE MOST CURRENT TOWN OF GRAND CHUTE IMPACT FEE SCHEDULE.

9. TRAIL/PEDESTRIAN PATH EASEMENTS AS HEREIN SET FORTH ARE PERPETUAL, EXCLUSIVE AND PERMANENT EASEMENTS DEDICATED TO THE PUBLIC. SAID EASEMENTS SHALL BE USED BY THE PUBLIC AS A NON-MOTORIZED TRAIL SUBJECT TO THE RULES, REGULATIONS, ORDINANCES AND POLICIES OF THE TOWN OF GRAND CHUTE,

10. THE LAND ON ALL SIDE AND REAR LOT LINES OF ALL LOTS SHALL BE GRADED BY THE PROPERTY OWNER AND MAINTAINED BY THE ABUTTING PROPERTY OWNERS TO PROVIDE FOR ADEQUATE DRAINAGE OF SURFACE WATER. 11. EACH LOT OWNER SHALL GRADE THE PROPERTY TO CONFORM TO THE ADOPTED SIDEWALK GRADE ELEVATION AND MAINTAIN SAID ELEVATION FOR FUTURE SIDEWALKS.

12. NO POLES, PEDESTALS, TRANSFORMERS OR BURIED CABLE ARE TO BE PLACED WITHIN TWO (2) FEET OF ANY SURVEY STAKE, OR PLACED SO AS TO OBSTRUCT VISION ALONG ANY LOT LINE OR STREET LINE. ANY DISTURBANCE OF A SURVEY STAKE BY ANY PERSON IS A VIOLATION OF § 236.32 WIS. STATS.

13. UTILITY EASEMENTS AS HEREIN SET FORTH ARE FOR THE USE OF PUBLIC BODIES AND PRIVATE UTILITY PROVIDERS HAVING THE RIGHT TO SERVE THE AREA.

14. DISTURBING OR FILLING ANY WETLAND WILL NOT BE ALLOWED WITHOUT STATE AND LOCAL PERMITS. 15. MAINTENANCE OF ALL DRAINAGE WAYS, INCLUDING EASEMENTS AS INDICATED ON THE PLAT AND ALONG SIDE AND REAR LOT LINES THAT CONVEY STORMWATER RUNOFF IN ACCORDANCE WITH THE APPROVED DRAINAGE PLAN. AND ASSOCIATED STRUCTURES WITHIN THE LAND DIVISION OR SERVING THE LAND DIVISION, IS THE SOLE RESPONSIBILITY OF THE PROPERTY OWNERS OF THE LAND DIVISION, UNLESS NOTED ON THE PLAN. UPON FAILURE OF PROPERTY OWNERS TO PERFORM MAINTENANCE OF THE DRAINAGE WAYS AND ASSOCIATED STRUCTURES WITHIN THE LAND DIVISION OR SERVING THE LAND DIVISION, THE TOWN OF GRAND CHUTE AND/OR OUTAGAMIE COUNTY RETAINS THE RIGHT TO PERFORM MAINTENANCE AND/OR REPAIRS. THE PAYMENT OF THE MAINTENANCE AND REPAIRS SHALL BE ASSESSED IN EQUAL AMOUNTS TO THE OWNERS OF ALL PROPERTY WITHIN THE LAND DIVISION, OR, WHERE THE CAUSER CAN BE SPECIFICALLY IDENTIFIED, THE PAYMENT SHALL BE ASSESSED TO A SPECIFIC PROPERTY OWNER.

16. NO STRUCTURES, FENCES OR PLANTINGS OTHER THAN GRASSES SHALL BE ALLOWED WITHIN THE DRAINAGE **EASEMENTS HEREIN SET FORTH**

OUTLOT COVENANTS

1. GCW INVESTMENTS, LLC, ITS SUCCESSORS AND ASSIGNS ("DEVELOPER"), MAY, FROM TIME TO TIME, AND IN ITS SOLE DISCRETION, SUBDIVIDE LOT 21 OF THE "EDGEWOOD ACRES" PLAT INTO FUTURE LOTS BY RECORDING ADDITIONAL PLATS TO BE KNOWN AS "EDGEWOOD ACRES THIRD ADDITION." "EDGEWOOD ACRES CONDOMINIUM." ETC. (EACH A "FUTURE PLAT," AND COLLECTIVELY, THE "FUTURE PLATS"). THIS PLAT AND THE FUTURE PLATS SHALL BE PART OF A MASTER SUBDIVISION TO BE REFERRED TO HEREIN AS THE "EDGEWOOD ACRES MASTER

2. EACH PLAT IN THE EDGEWOOD ACRES MASTER SUBDIVISION MAY CONTAIN ONE OR MORE OUTLOTS DESIGNATED AS SUCH (EACH AN "OUTLOT," AND COLLECTIVELY, THE "OUTLOTS"). THIS PLAT CONTAINS 3 OUTLOTS. 3. EACH PLAT IN THE EDGEWOOD ACRES MASTER SUBDIVISION WILL CONTAIN ONE OR MORE LOTS (EACH A "LOT," AND COLLECTIVELY, THE "LOTS"). FOR PURPOSES HEREOF, THE TERM "LOT" SHALL NOT INCLUDE ANY

OUTLOTS. THIS PLAT CONTAINS TWENTY-ONE (34) LOTS. 4. EACH LOT WITHIN THE EDGEWOOD ACRES MASTER SUBDIVISION SHALL HAVE, APPURTENANT TO SUCH LOT. AN EQUAL AND UNDIVIDED OWNERSHIP PERCENTAGE INTEREST IN EACH OF THE OUTLOTS. THE UNDIVIDED PERCENTAGE INTEREST IN THE OUTLOTS (THE "PERCENTAGE INTEREST") APPURTENANT TO EACH LOT SHALL BE A PERCENTAGE EQUAL TO ONE DIVIDED BY THE TOTAL NUMBER OF LOTS WITHIN THE EDGEWOOD ACRES MASTER SUBDIVISION. IF THE NUMBER OF LOTS CHANGES DUE TO THE RECORDING OF FUTURE PLATS, THE PERCENTAGE INTEREST OF EACH LOT SHALL BE RECALCULATED.

UPON THE RECORDING OF FUTURE PLATS, THE PERCENTAGE INTEREST IN THE OUTLOTS APPURTENANT TO EACH LOT SHALL CHANGE TO BE A PERCENTAGE EQUAL TO ONE DIVIDED BY THE TOTAL NUMBER OF LOTS WITHIN THE EDGEWOOD ACRES MASTER SUBDIVISION AS SO EXPANDED. THE EDGEWOOD ACRES MASTER SUBDIVISION SHALL BE DEEMED EXPANDED WHEN A FUTURE PLAT, EXECUTED BY DEVELOPER, IS RECORDED IN THE OFFICE OF THE OUTAGAMIE COUNTY REGISTER OF DEEDS.

6. UPON THE RECORDING OF A FUTURE PLAT, EACH LOT OWNER SHALL HAVE THE PERCENTAGE INTEREST IN THE OUTLOTS EQUAL TO ONE DIVIDED BY THE RESULTING TOTAL NUMBER OF LOTS WITHIN THE EDGEWOOD ARCES MASTER SUBDIVISION. FOLLOWING THE RECORDING OF A FUTURE PLAT, THE INTEREST OF ANY HOLDER OF A RECORDED MORTGAGE OR ANY VENDOR UNDER A RECORDED LAND CONTRACT ENCUMBERING A LOT SHALL ATTACH TO THE NEW PERCENTAGE INTEREST APPURTENANT TO THE LOT ON WHICH IT HAS A LIEN.

7. IN THE EVENT A LOT IS DIVIDED INTO TWO OR MORE LOTS BY CERTIFIED SURVEY MAP OR OTHER TYPE OF LEGAL LOT DIVISION. EACH LOT OWNER SHALL HAVE THE PERCENTAGE INTEREST IN THE OUTLOTS EQUAL TO ONE DIVIDED BY THE RESULTING TOTAL NUMBER OF LOTS WITHIN THE EDGEWOOD ACRES MASTER SUBDIVISION. FOLLOWING THE RECORDING OF THE CERTIFIED SURVEY MAP OR OTHER TYPE OF LEGAL LAND DIVISION, THE INTEREST OF ANY HOLDER OF A RECORDED MORTGAGE OR ANY VENDOR UNDER A RECORDED LAND CONTRACT ENCUMBERING A LOT SHALL ATTACH TO THE NEW PERCENTAGE INTEREST APPURTENANT TO THE LOT ON WHICH IT HAS A LIEN.

8. IN THE EVENT TWO OR MORE LOTS ARE COMBINED INTO A DIFFERENT NUMBER OF LOTS BY CERTIFIED SURVEY MAP OR OTHER LEGAL LOT COMBINATION, EACH LOT OWNER SHALL HAVE THE PERCENTAGE INTEREST IN THE OUTLOTS EQUAL TO ONE DIVIDED BY THE RESULTING TOTAL NUMBER OF LOTS WITHIN THE EDGEWOOD ACRES MASTER SUBDIVISION. FOLLOWING THE RECORDING OF THE CERTIFIED SURVEY MAP OR OTHER TYPE OF LEGAL LOT COMBINATION, THE INTEREST OF ANY HOLDER OF A RECORDED MORTGAGE OR ANY VENDOR UNDER A RECORDED LAND CONTRACT ENCUMBERING A LOT SHALL ATTACH TO THE NEW PERCENTAGE INTEREST APPURTENANT TO THE LOT ON WHICH IT HAS A LIEN.

9. EACH LOT'S PERCENTAGE INTEREST IN THE OUTLOTS IS AN UNDIVIDED INTEREST APPURTENANT TO THE LOT AND MAY NOT BE TRANSFERRED SEPARATELY FROM, OR SEVERED FROM, TITLE TO THE LOT.

10. THE OUTLOTS AND ANY RELATED DETENTION PONDS, CULVERTS, CATCH BASINS, SWALES, AND OTHER FACILITIES WITHIN THE EDGEWOOD ACRES MASTER SUBDIVISION SHALL BE MAINTAINED BY THE LOT OWNERS IN ACCORDANCE WITH THE BEST MANAGEMENT PRACTICES SET FORTH IN THE STORMWATER MANAGEMENT PLAN (THE "MANAGEMENT PLAN") ON FILE WITH THE TOWN OF GRAND CHUTE. MAINTENANCE COSTS SHALL BE SHARED AND PAID BY THE LOT OWNERS IN PROPORTION TO THEIR PERCENTAGE INTERESTS IN THE OUTLOTS. 11. THE TOWN OF GRAND CHUTE IS AUTHORIZED TO ACCESS ANY PROPERTY WITHIN THE EDGEWOOD ACRES

MASTER SUBDIVISION TO CONDUCT INSPECTIONS OF THE OUTLOTS AND RELATED FACILITIES AS NECESSARY TO ASCERTAIN THAT THE OUTLOTS ARE BEING OPERATED AND MAINTAINED IN ACCORDANCE WITH THE MANAGEMENT PLAN AND ACCEPTABLE ENGINEERING STANDARDS.

12. IF THE LOT OWNERS FAIL TO MAINTAIN AND REPAIR THE OUTLOTS AND RELATED FACILITIES AS REQUIRED, THE TOWN OF GRAND CHUTE IS GRANTED THE RIGHT TO MAINTAIN AND REPAIR THEM IN ACCORDANCE WITH THE MANAGEMENT PLAN OR OTHERWISE AS THE TOWN OF GRAND CHUTE DETERMINES IS NECESSARY IN ITS SOLE DISCRETION. THE COST OF ANY MAINTENANCE AND REPAIR MEASURES UNDERTAKEN BY THE TOWN OF GRAND CHUTE PURSUANT TO THIS SECTION SHALL BE ASSESSED AGAINST THE LOTS IN PROPORTION TO THE LOT OWNERS' PERCENTAGE INTERESTS IN THE OUTLOTS IN ACCORDANCE WITH THE PROVISIONS OF §66.0627, WIS. STATS. SUCH COST SHALL BE DEEMED A SPECIAL CHARGE FOR CURRENT SERVICES AND MAY BE LEVIED IN ACCORDANCE WITH THE PROVISIONS OF §66.0627, WIS. STATS. ANY SUCH ASSESSMENT AGAINST A LOT THAT IS NOT PAID BY A LOT OWNER WITHIN SIXTY (60) DAYS AFTER BILLING SHALL BE DEEMED A DELINQUENT SPECIAL CHARGE AND SHALL BECOME A LIEN UPON THE NON-PAYING OWNER'S LOT. SUCH DELINQUENT CHARGES SHALL BE EXTENDED UPON THE CURRENT OR NEXT TAX ROLL AS A DELINQUENT TAX AGAINST THE LOT FOR WHICH PAYMENT HAS NOT BEEN RECEIVED BY THE TOWN OF GRAND CHUTE, AND ALL PROCEEDINGS IN RELATION TO THE COLLECTION, RETURN AND SALE OF PROPERTY FOR DELINQUENT REAL ESTATE TAXES SHALL APPLY TO SUCH SPECIAL CHARGES.

13. OUTLOT 7 IS DEDICATED TO THE TOWN OF GRAND CHUTE SANITARY DISTRICT #2.

Z DITIO Ш

NVE

DATE: OCTOBER 25, 2016 DRAFTED BY: RJO

CHECKED BY: ASC PROJECT NO.: 0003-25-16 DRAWING

1249 SHEET NUMBER



PARKS, RECREATION & FACILITIES MANAGEMENT

Dean R. Gazza, Director

1819 East Witzke Boulevard Appleton, Wisconsin 54911-8401 (920) 832-5572 FAX (920) 993-3103 Email - dean.gazza@appleton.org

TO: Parks and Recreation Committee

FROM: Dean R. Gazza

DATE: 1-9-17

RE: Action: Request Approval of Trails Master Plan

On December 12, 2016 Alta Planning and Design presented the Trails Master Plan to the Parks and Recreation Committee. The request for approval was held for changes to be made on maps and narrative added to address concerns. All changes and additions have been made, the revised Trails Master Plan is included for review and approval.

The 2016 Capital Improvement Plan includes funding for the development of a Trails Master Plan. The City has contracted with Alta Planning and Design from Seattle, Washington. Alta coordinated with SEH and the Community and Economic Development Department to gather public input, comments, and recommendations. Public informational meetings were held and an online survey was available for submitting comments.

A steering committee was assembled to further assist with the development of the Trails Master Plan that consisted of members from the Greenways, East Central Regional Planning Commission, Fox Cities Cycling Association, Lawrence University, Fleet Feet, Riverview Gardens, Fox River Navigational System Authority, City of Appleton Residents, and City Staff. The Appleton Bicycle and Pedestrian Advisory Committee was also involved throughout the process.

The Trails Master Plan includes a trails conditions audit, existing conditions report, project prioritization, project development, implementation, budgeting, preliminary engineering of priority projects, and the public involvement process.

The Parks, Recreation, and Facilities Department has been amazed with the scores of public comments and professionalism and attention to detail that Alta has provided to the City throughout the process.

Please contact me at 832-5572 or at dean.gazza@appleton.org with any questions.



Acknowledgements

Appleton Parks, Recreation, and Facilities Management Department

Dean Gazza, *Director* Tom Flick, *Deputy Director* Greg Hoekstra, *Grounds Manager*

Steering Committee

Melissa Kraemer Badtke, East Central Region Planning Commission Gwen Hinzman Sargeant, Fox Cities Cycling Association

Jan Heifner, Fox Cities Greenways
Linda Stoll, Fox Cities Greenways

Jake Woodford, Lawrence University

Jeremy Schapiro, Fleet Feet
Leah Schapiro, Fleet Feet
Rachel Van Daalwyk, Riverview Gardens

Bill Lecker, City Resident

Eric Lom, City of Appleton

Jessica Schneider, City of Appleton

Bicycle and Pedestrian Advisory Committee

Tom Flick
Eric Lom
Joe Martin
Rick Krumwiede
Richard Gosse
Bob Gusky
Nick Hoffman
Bill Moore
Jan Heifner
Gwen Sargeant
Joe Sargent

Prepared for:



Appleton Parks, Recreation, and Facilities Management Department

Consultant Team Alta Planning + Design

Fred Young Erin David Victoria Kovacs Katie O'Lone Colin Harris

SEH

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Prepared by:





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INTRODUCTION

The Appleton Trails Master Plan explores opportunities to enhance and expand multi-modal facilities, for both recreation and transportation purposes within the City of Appleton. New trails and improvements to existing trails will lend to the creation of a network that provides connections to key destinations and recreation opportunities within the city and region. This plan builds on existing proposals and planning efforts and includes the results of a trail audit and stakeholder input to identify and prioritize projects for network expansion.

Project Vision, Goals, and Objectives

The purpose of the Trails Master Plan for Appleton is to provide a framework for future investments in a system of interconnected multimodal transportation facilities in Appleton. The Trails Master Plan focuses on improving connectivity to local destinations, linking to the trail system in the Fox Valley, increasing safety and accessibility for all trail users, supporting economic development, and enhancing quality of life for Appleton area residents.

Developing the Trails Master Plan included consideration of future land use developments, major origins and destinations within the City, and review of current and proposed on-street bike lanes and trails. To identify trail connections, the project team conducted trail condition audits of existing trails such as the Apple Creek Trail, the Highview Trail, the Newberry Trail, the North Island Trail, and the Providence Trail. To maintain concurrency with existing plans and polices, the team reviewed the City of Appleton On Street Bike Plan, Appleton (Fox Cities) TMA and Oshkosh MPO Bicycle and Pedestrian Plan, City of Appleton Parks and Recreation Department Master Plan, the Downtown Plan, the Five-Year Updates to the City's Comprehensive Plan, and relevant plans for communities adjacent to Appleton.

Additional major considerations also included ADA accessibility, connectivity to future subdivisions, connectivity to private corporations and businesses, and trail purpose in terms of recreation and/or transportation.

This plan identifies trail alignments at a high level by referencing previous planning efforts, direction from city staff, and public involvement. As trails are implemented, further study will be conducted to verify and adjust the alignments through further detailed investigation and public involvement.







Setting

The League of American Bicyclists has ranked Appleton as a Bronze Level Bicycle Friendly Community. This accolade acknowledges Appleton has a growing population of bicycle commuters with programs and events to encourage more people to ride, increasing numbers of streets with dedicated bicycle infrastructure and trails, and plans and policies to further advance cycling in the community. This trails master plan will build upon these achievements and demonstrate Appleton's continued efforts to further improve conditions for bicycling as Appleton re-applies for bicycle friendly community status in 2017.

Bicycling, walking and trail use are becoming increasingly popular in Appleton. With a current total of eight miles of trails within the city, residents and community members have expressed a growing interest in trail expansion. As the City continues to grow and becomes even more of a regional cultural and tourist destination, it will be important that future capital investments and development projects incorporate trails, on-street bikeways, and pedestrian paths as vital community assets.

The past several years have seen growth in city and regional trail development including but not limited to: new Telulah park trail connection via Newberry trail, CB trail, key on-street bike lane striping projects, such as Mason, Fremont and John streets, and regional efforts such as the Fox Cities Paper Trail. In addition to these land based trails, the Fox-Wisconsin Heritage Water Trail passes through the center of Appleton.

Along with this expansion in trail development, there has been strong support from volunteers and private interests to add additional trails to the network. Some of these groups include Fox Cities Greenways, Fox Cities Cycling Association, the Appleton Bike/Ped Advisory Committee, and large employers, such as Kimberly Clark, who increasingly view trails as a baseline requirement for retaining existing and attracting new employees.

The City of Appleton also understands that trails are a core component of quality of life investment and directly support community and economic development efforts underway, such as the River Heath development and Eagle Flats. The City has identified future funding to support new trail construction in its CIP over the next 5-year period, including the potential for adding key river trail connections including trestle trails.





This Trails Master Plan will provide clear direction to City Council to invest in future trail connections over next several years while fostering additional opportunities for public-private partnerships to extend trail network.

Benefit of Trails

HEALTH & EQUITY

The ability for all Appleton residents and visitors to safely and conveniently walk and bicycle is a fundamental equity measure and translates to numerous community health and equity related benefits. Improved community health and wellness is directly related to increased levels of physical activity. A growing body of literature has shown a strong connection between parks and trails and increased physical activity. An expanded trail network, in combination with a complete network of sidewalks bike lanes and bike routes, could dramatically increase safe and convenient opportunities for residents and visitors to walk and bike, leading to increased frequency and duration of physical activity among residents. This could in turn lead to reduced risk of obesity, diabetes, heart disease, stress related health problems, and other health concerns attributed to physical inactivity.

TRANSPORTATION & ENVIRONMENTAL BENEFITS

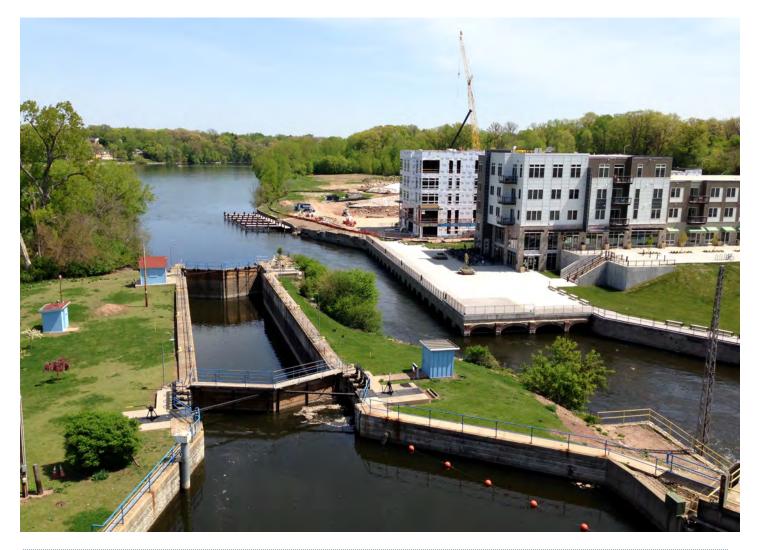
The Appleton trail network will result in increased access and connections to many local and regional destinations. It would provide residents and visitors with more travel options and present a safe, comfortable, efficient, and enjoyable way for people to get around. Additionally, the network would provide the City with transportation-specific benefits related to reductions in the number of vehicle miles traveled (VMT). These benefits include reductions in the estimated costs of congestion, vehicle collisions, road maintenance, and direct household vehicle expenses - as well as the estimated environmental impact associated with vehicle emissions.

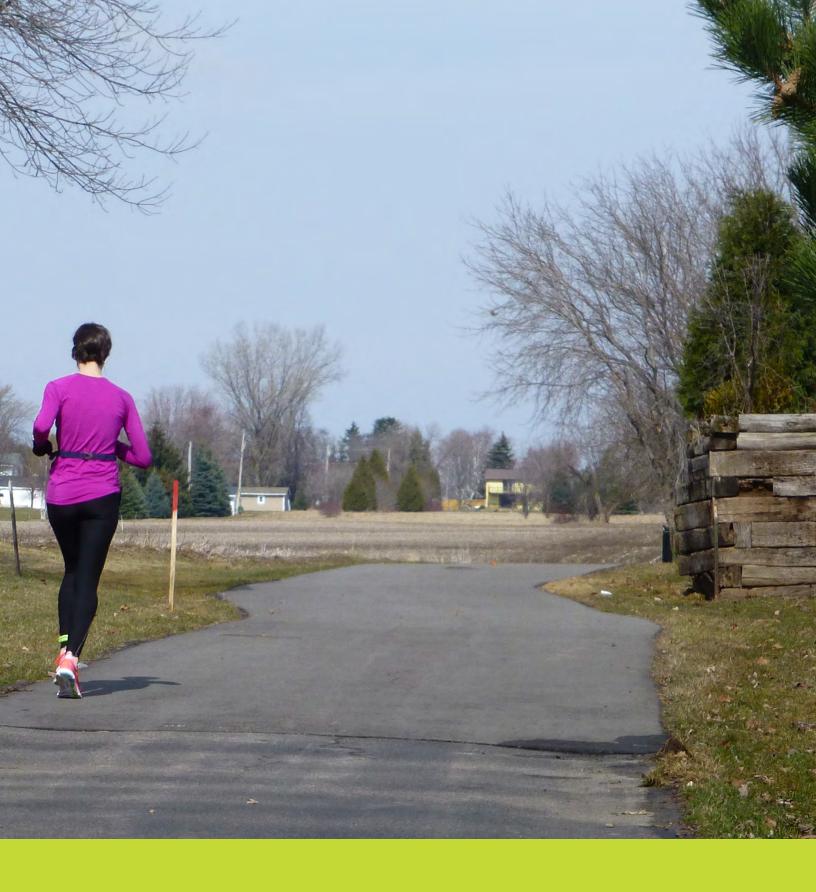
ECONOMIC & PROPERTY VALUE BENEFITS

The Appleton trail network will provide residents and visitors access to local parks, regional destinations of cultural and historical significance, and all of the everyday connections that the community makes for work, school, shopping, and play.

As a growing industry and significant economic driver in the region, tourism is an increasingly important basis for developing the regional trail network. Trail networks may also lead to the creation of tourism-based jobs.

Additionally, the transportation and recreation amenities that the network provides could incentivize residents and business owners to invest in property. Property value studies of similar trail systems show that nearby property owners can expect a 3.5% increase in property values.





EXISTING DOCUMENTS

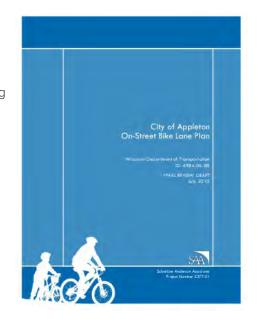
The development of a comprehensive trail network in the City of Appleton is addressed in numerous plans at both the local and regional levels. These plans address network extent, quality, and purpose. The following section provides a review of these existing documents, including:

- » City of Appleton On-Street Bike Lane Plan (2010)
- » Fox Cities Transportation Management Area and Oshkosh Metropolitan Planning Organization Bicycle & Pedestrian Plan (2014)
- » City of Appleton Parks and Recreation Department Master Plan (2004)
- » Comprehensive Plan: Transportation Element (2010-2030)
- » Comprehensive Plan: Downtown Element (2010-2030)
- » Greenville Comprehensive Open Space & Outdoor Recreation Plan (2015)
- » Little Chute Comprehensive Park & Outdoor Recreation Plan, Supplement #1: Pedestrian and Bicycle Facilities Recommendations (2008)
- » Village of Kimberly Open Space & Recreation Plan (2013)

In addition to these planning documents, the Trails Master Plan team coordinated with Public Works to incorporate relevant information from the Downtown Appleton Mobility Study, which was completed in August 2016.

City of Appleton On-Street Bike Lane Plan Adopted: September 15, 2010

This plan examines opportunities for implementation of an on-street network for the city. Building on regional and state goals for increasing the viability of bicycling for transportation, the plan provides guidelines for facility selection and implementation, education and encouragement programming, funding opportunities, and project prioritization. The plan recognizes the benefits of bicycling for public health, transportation cost, environmental impact, and social cohesion. A primary goal is to increase bicycle commute mode share by capturing a portion of the reported 49% recreational cyclists in the state. Snow and other debris were identified by stakeholders as a concern and barrier to use; recommendations in the plan call for snow clearing on facilities and bike parking locations to address this concern. The plan concludes with a prioritized project list and implementation time line, specific actions related to the 5 Es for all community members, standard element costs, and a general framework for route and wayfinding signage development.



Fox Cities Transportation Management Area & Oshkosh Metropolitan Planning Organization Bicycle & Pedestrian Plan 2014

The Bicycle & Pedestrian Plan aims to ensure that regional residents can safely and conveniently walk and bike between destinations, while maintaining access to transit services. The plan recognizes the benefits of active transportation for regional connectivity, economic value (through tourism, health benefits, and increased property values), and for addressing obesity and environmental concerns. Goals include increasing biking and walking trips to school, equity among modes, and providing connections among municipalities.



City of Appleton Parks and Recreation Department Master Plan

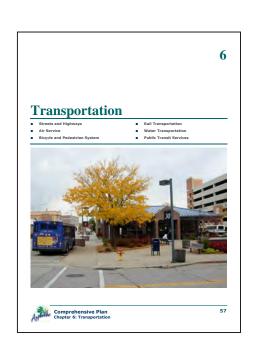
The Parks and Recreation Department identifies acquisition of greenways, especially within new residential developments, as a primary goal. Multi-use trails are considered to be a park facility, and in the public outreach process the Department found significant demand for more trails. Over two-thirds of respondents indicated current use of the trail system, and more than half favored adding new trails.



Comprehensive Plan – Transportation Element

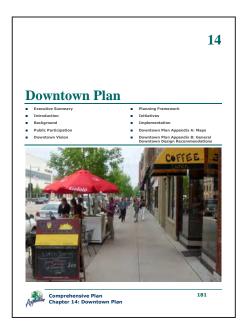
2010-2030

Promoting bicycling as a viable means of transportation and increasing safety for all cyclists are primary goals of the Transportation Element. Similar to the other plans reviewed here, education, integration with transit, coordination with Safe Routes to School efforts are identified as primary pathways to achieve these goals. Connectivity to the regional trail system in addition to local destinations are important elements to this plan. Although the roadway network for motor vehicles is assumed to require expansion over the plan period, the plan recommends focusing this growth in a strategic manner so as to reduce congestion and lessen the environmental impact. However, several member towns do have plans in place to expand the existing width of several major corridors. This section will be updated as the Comprehensive Plan is updated in 2016.



Comprehensive Plan – Downtown Element 2010-2030

The Downtown Element focuses on the developing clear connections between adjacent multi-use trails and Downtown. By adding entry elements, wayfinding signage, and increased bicycle parking options, connectivity through downtown will be enhanced. The Plan prioritizes developing a rails-trail along the northern portion of downtown to improve connectivity to adjacent neighborhoods. Identifying safe routes and additional off-street opportunities is vital to addressing safety and connectivity concerns for bicycling in the area. This section will be updated as the Comprehensive Plan is updated in 2016.



Greenville Comprehensive Open Space & Outdoor Recreation Plan

Identifies a number of goals related to multi-modal facilities. Public input identifies frequent use of existing trail facilities during non-snow months, as well as support (67%) for more trail development. Plan recommends the development of a Town Bike and Pedestrian Facility Plan to establish levels of service, project prioritization, and network connectivity. Ten specific corridors are identified for improvement or development. While none of these trails provide a direct connection to Appleton, the CB Trail Extension and Design Drive Trail provide connections to proposed regional trails that have access to Appleton from 5-12 mph, and downhill bicyclist speeds can reach 20-30 mph. A design speed of 10 mph is used for bicycle signage and crossings.



Little Chute Comprehensive Park & Outdoor Recreation Plan Supplement #1: Pedestrian & Bicycle Facilities Recommendations 2008

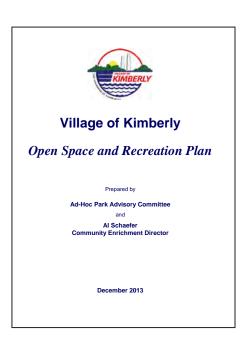
Accompanying element to the larger Park and Outdoor Recreation Plan that identifies specific guidelines and recommendations for the bicycle and pedestrian network. The plan identifies facility types and limitations, and encourages intersection treatments to improve safety for pedestrians and cyclists. Similar to other plans in the region, Little Chute identifies that education and enforcement are integral to a successful network. Despite minimal reported collisions from 2002-2007, the majority of those reported did involve cyclists. Utilizing this information as well as village-wide and corridor specific factor, the plan presents a recommended project list. One route in particular, bike lane along Highway 96, provides a clear connection into Appleton City Limits.



Village of Kimberly Open Space and Recreation Plan

December 2013

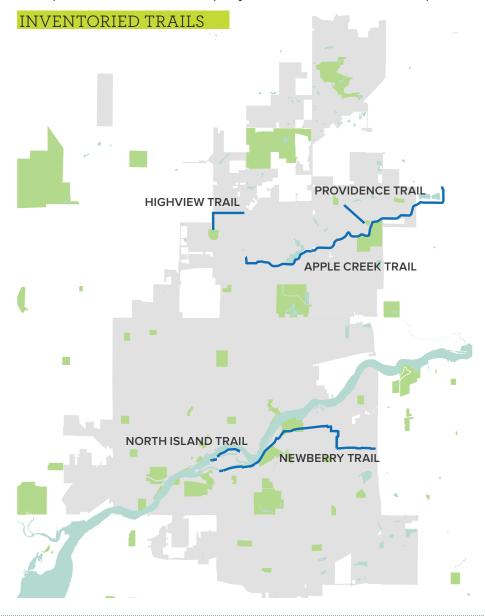
The open space plan identifies needed multi-purpose trails interconnected with the CE Trail and neighboring communities. Specific links identified include Railroad Street, Kennedy Avenue, Marcella Street, Cobblestone, and Mill Site. Addition bicycle lanes could be implemented along complete street corridors, including Kimberly Avenue, 3rd Street, and John Street. Similar to regional goals, the plan aims to provide quality recreation facilities that are accessible to all ages and abilities, provide protection to natural resources, and promote region-wide cooperation. An accompanying action plan outlines all recommended projects, associated costs, and projected timeline for completion.





TRAIL CONDITIONS AUDIT

The condition of eight miles of trails within the City of Appleton were audited in early 2016. The project team collected information on trail condition, surface quality, and amenity locations along the trail network. The data summarized here is intended to provide a high-level snapshot of existing conditions and may contribute to the development of future trail projects and maintenance plans.





Project staff collect trail inventory data using Collector for ArcGIS.

Trail Audit Location

The trails included in the existing conditions audit included the following:

- » Apple Creek Trail
- » Highview Trail
- » Newberry Trail
- » North Island Trail
- » Providence Trail

Trail Audit Methods

A team of two conducted the audit by walking along the length of each trail. Collector for ArcGIS paired with a GPS unit allowed for attributes related to trail condition and quality to be captured in their correct location along each segment. Additional images and descriptions were captured for items requiring further review.

The use of Collector allows for data captured in the field to be directly translated into a GIS database, which can be used in analysis of existing trail needs. The database is compatible with the city's existing system and can be updated by city staff as trail conditions and the extent of the system change.

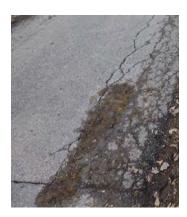
Trail Audit Criteria

The following fields were entered into the Collector application. Each field is detailed with the type and definition of data entered.

- » Surface Issues
- » Crossings
- » Signs
- » Maintenance Concerns
- » Barriers/Obstacles
- » Amenities
- » Limited Sight-line

SURFACE ISSUE:

» Captures location of buckling, heaving, cracking, or other issue. The following types of issues are defined below:



Alligator: Fatigue cracking associated with repeated traffic loading; exhibits as parallel longitudinal cracks that begin to interconnect



Patching: Area of pavement replaced with new material



Transverse: Cracks that run perpendicular to roadway centerline; can be caused by shrinkage due to low temperatures or cracks in underlying layers



Sags: Specific depressions of pavement due to settlement or displacement due to tree roots



Longitudinal: Cracks that run parallel to trail center line and are often discontinuous. These cracks are often associated with loading on the trail surface



Edge Condition: Locations along pavement edge where pavement has broken away from pathway

¹ Pavement Surface Condition Field Rating Manual for Asphalt Pavements. Northwest Pavement Management Association, 2008.



CROSSING:

» Captures location of trail crossings with roadways



SIGNS:

» Location of signs, including regulatory, wayfinding, and interpretative



MAINTENANCE CONCERN:

» Captures location of maintenance concerns, including drainage issues



BARRIERS/OBSTACLES:

» Locations of barriers to trail path, such as storm drains and utilities



AMENITY:

» Captures location of items such as trash receptacles and benches



LIMITED SIGHTLINE:

» Walls, fences, vegetation, and other barriers along the corridor that impact visibility



Seasonal pooling along trails were often associated with surface cracking.



 $\label{lem:visible} \textit{Visible crossings improve comfort for trail users at intersections with roadways.}$



Edge conditions include cracking and disintegration of the trail surface.

Summary of Findings

Surface issues were the most common conditions documented during the trail audit. Cracking of the surface was severe along most of the trails; newer segments experienced less severe but still frequent cracking. Drainage issues were also frequent; pooling along the trail was common at the time of the audit.

Many of the crossings documented were considered to be insufficient, meaning that at least one curb ramp and/or crosswalk was missing. While trails provide a separated facility for all ages and abilities, crossings with roadways, rail lines, or other trail segments can decrease the safety for trail users. Adequate signage, markings, and accommodations should be made to provide for users of all ages and abilities.

Trail amenities, including benches, trash receptacles, and lighting were also inventoried. Lighting was present only along the North Island trail and the westernmost extents of the Newberry trail. Signs were distributed across all trails and primarily include regulatory signage; limited wayfinding signs was noted.

TABLE 1: TRAIL AMENITY INVENTORY

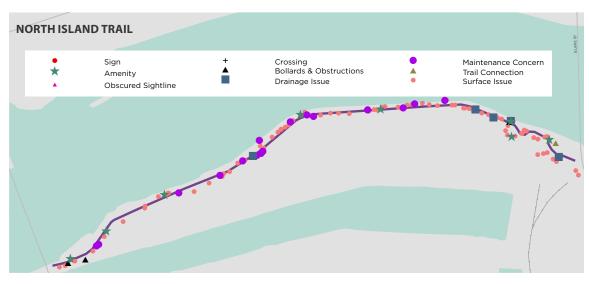
ITEM	COUNT
Signs	94
Lighting	25
Benches	22

Overall, trail widths were found to be consistently 10 feet, with only five total width changes noted. Trail surface varied between asphalt and concrete.

TABLE 2: SURFACE CONDITION SUMMARY

CONDITION	APPLE CREEK TRAIL	HIGHVIEW TRAIL	NORTH ISLAND TRAIL	PROVIDENCE TRAIL	NEWBERRY TRAIL
TRANSVERSE CRACKING	48	46*	58	16	126
LONGITUDINAL CRACKING	61	52*	5	4	53
EDGE CRACKING	56	4	9	9	19
ALLIGATOR CRACKING	17	0	0	1	11
PATCHING	19	10	9	2	6
SAGS/ SETTLEMENT	13	6	3	0	0
ROOT INTRUSIONS	1	0	16	1	4
DRAINAGE ISSUE	16	0	5	1	4

*Note that these numbers represent only a small portion of the number of transverse and longitudinal cracks on the Highview Trail. The density of cracks was often too high to document accurately.



 $Example\ of\ trail\ audit\ results\ along\ the\ North\ Island\ Trail.\ Each\ point\ is\ maintained\ in\ a\ database\ compatible\ with\ existing\ city\ systems.$

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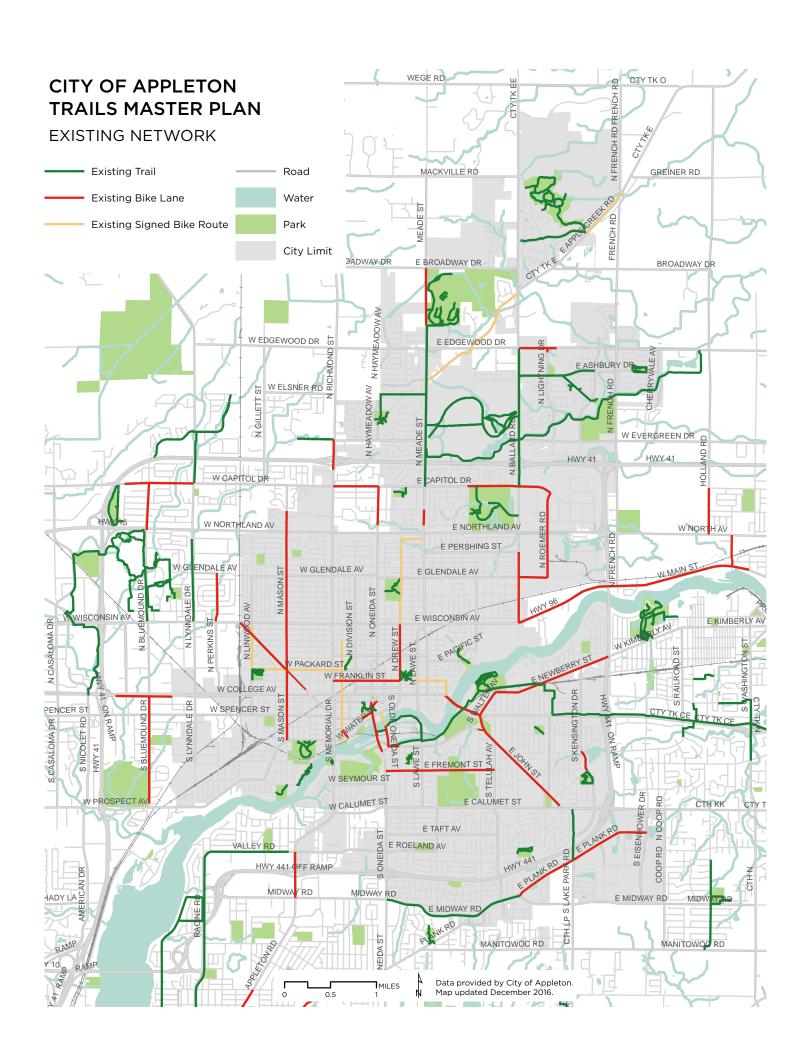


EXISTING TRAIL NETWORK

A comprehensive trail network provides recreational and transportation opportunities for bicyclists, pedestrians, and other active users. Connectivity to an on-street network of bike lanes, signed routes, and sidewalks extends the reach of the network and provide access to destinations, neighborhoods, and places of employment.

The City of Appleton currently has an active transportation network that includes off-street trails, on-street bike lanes, sidewalks, sidepaths, and on-street signed routes. The On-Street Bike Lane Plan and regional planning efforts have identified numerous corridors for network expansion, providing connections to the existing network, regional destinations, and other regional bicycle and pedestrian facilities.

The following section explores both the existing and proposed network. This network will be used in the project development phase of the Master Plan.



Existing Trail Network

The existing network within city limits is comprised primarily of off-street trails (often within parks), sidepaths separated from traffic, and on-street bike lanes. The map on the preceding page depicts the existing network both within and outside of Appleton City Limits.

In general there is minimal connectivity between existing trails, with significant disconnect between trails along the river and trails north of Highway 41; opportunities to connect with the on-street network are also limited. In many cases trails do not connect directly into the on-street network, or the on-street network doesn't extend beyond the trail connection. Connections within the network are important for the overall usability of the system; safe, clear connections can promote greater trail use and increase the utility of the overall network.

As seen in the existing network map, a limited number of signed routes help connect existing facilities for bicyclists who are willing and able to travel in a mixed-traffic environment. Delineating these routes provides key wayfinding information for these cyclists. Often these signed routes end without further wayfinding to help bicyclists reach their intended destination.

Signed routes are a relatively quick approach to extending the existing network but do not accommodate users of all ages and abilities. Facilities that offer more protection, such as separated trails and cycle tracks, accommodate a wider range of users. A more comprehensive network of protected facilities can increase the utility of trails as part of Appleton's active transportation network.

It is important to note that the city is actively working to expand the current network. Current efforts assess the feasibility of adding bike lanes to road resurfacing and reconstruction projects, while sidepaths are added where possible in new development areas.



Facility Types

TRAILS:

The City of Appleton has over 20 miles of existing trails within the city limits. Trails provides a facility for bicyclists and pedestrians that is separated from motor vehicle traffic.



SIDEPATHS:

Located adjacent to roadways, sidepaths are wide (usually approximately 10 feet) pathways similar to a sidewalk. Sidepaths are more separated than on-street lanes.



BIKE LANES:

Designated lanes for bicycle use are located adjacent to motor vehicle travel lanes and may be located adjacent to on-street parking.



SIGNED ROUTES:

Existing roadways are designated as bike routes and feature signs, as see in the image to the left, that identify the route and may also provide wayfinding when route changes direction. There are no physical improvements to the roadway, and bikes ride in mixed traffic.



SIDEWALKS:

Appleton features a comprehensive sidewalk network, providing designated pedestrian facilities throughout the majority of the city. With the exception of some areas in downtown, bicycles are permitted on sidewalks.

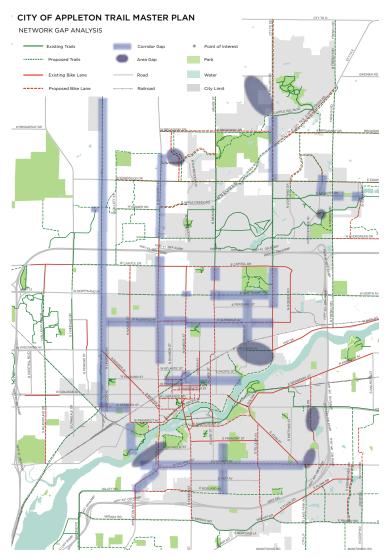
A map depicting both corridor and area gaps, shown to the right, identifies potential project areas that will help increase the coverage of the existing network. Gaps may be present along an entire corridor, at a specific intersection, or for an entire area. Additional geographic features or infrastructure may create a barrier, limiting travel between two areas. Examples of these gaps are shown below. The addition of facilities in these area will provide greater connectivity across the city and with the region.

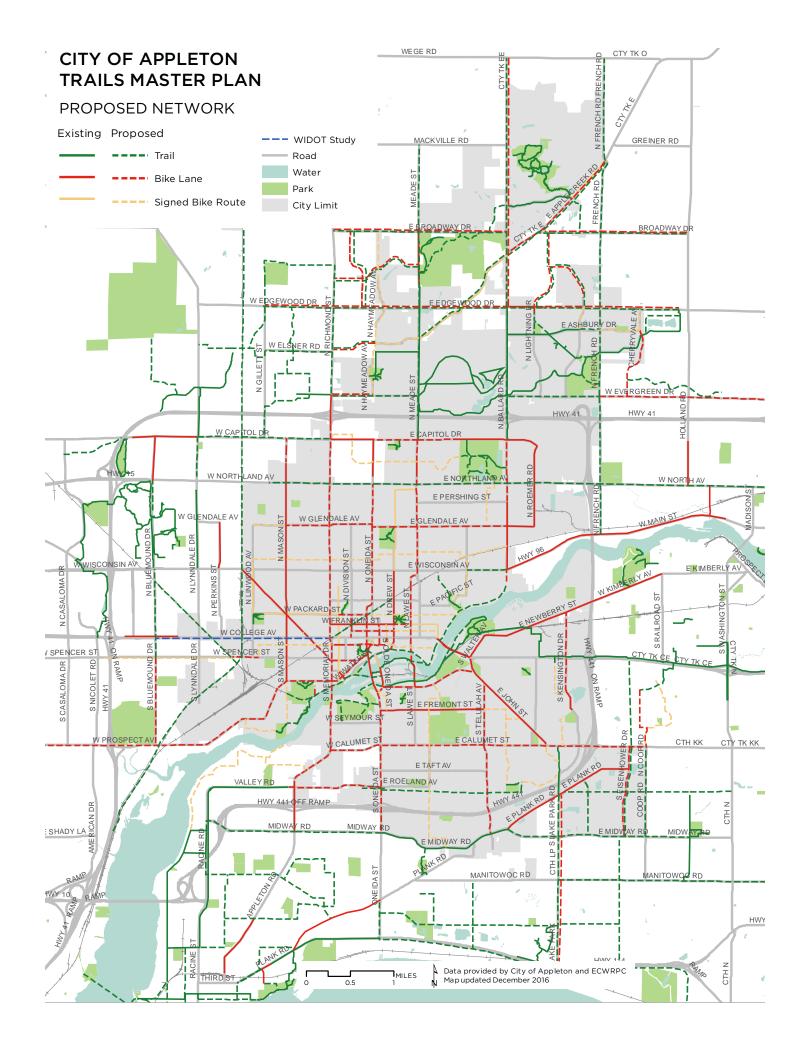


Railroad tracks represent infrastructure barriers and require specific improvements for a safe crossing along bike and pedestrian routes. They also provide opportunities for parallel routes.



Facilities ending $\,$ without further information can create gaps at intersections





Proposed Network

The map on the previous page builds on the existing network within Appleton and includes facilities proposed in regional plans and the On-Street Bike Lane plan. In addition to facilities already proposed, new facilities were identified during stakeholder meetings held in May 2016, including those proposed in the ongoing Downtown Mobility Plan.

While this plan focuses on trails operated by the Parks, Recreation, and Facilities Department, project development considers connectivity with existing and proposed network segments regardless of facility type.



 $High\ visibility\ crossings\ and\ clear\ signage\ create\ continuity\ in\ the\ trail\ system\ at\ intersections\ with\ roadways.$

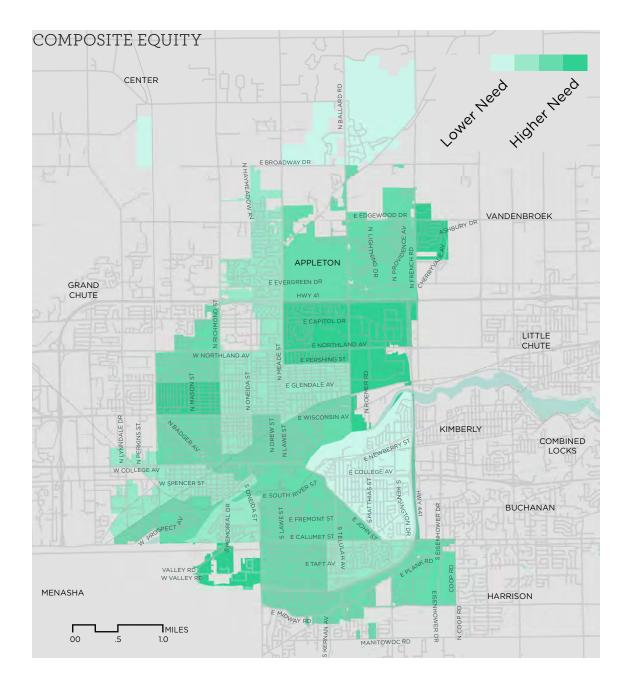
Equity Analysis

An equity analysis was conducted to better understand demographics within the City of Appleton and its relationship to facility access. The factors considered include: poverty, limited-English proficiency, non-white population, population under 18, population over 65, and population without a high school diploma. Historically these populations have been undeserved and are indicators of areas with relatively low levels of access to bicycle and pedestrian facilities.

The results are based on Census Tract boundaries as they compare with the state of Wisconsin. The five factors were then considered together to produce an overall equity score, as displayed on the next page. It is important to note that the data represent 2014 ACS data, based on a 5-year rolling average. For this reason, recent development may not be accurately accounted for. These maps provide a basis for analysis but require additional context-sensitive understanding.

The greatest areas of need are the northernmost Census Tract, north of the river along the eastern boundary of the city, and in the southwestern portion of the city near Valley Road. Individual factors varied in their distribution, however. For example, the south-western portion of the city exhibits the highest need in relation education, but scored lower for age and percent of households below poverty.

The equity analysis conducted during this planning process helps identify areas where making active transportation investments can have a large impact for children, older adults, low-income families, people of color, and people with limited English language abilities. For example, populations with limited English proficiency may be less likely to engage in the public process and may have different needs that those who do provide feedback. Therefore, additional outreach can be done in these areas to reach a wider range of the population and better understand how trail facilities can meet the needs of all residents in Appleton. These results serve as one input into project prioritization, discussed in the next chapter.





PUBLIC INVOLVEMENT

A robust public involvement process was used to help identify project priorities and refine recommendations for the Appleton Trails Master Plan. This project leverages public involvement processes happening concurrently for the Appleton Comprehensive Plan. The following is a complete list of opportunities for the public to provide input on the process:

- » June 2016 Trails Master Plan Survey
- » March 2016 City of Appleton Comprehensive Plan Issues and Opportunities Workshops
- » May 2016 City of Appleton Comprehensive Plan Downtown Design Workshop
- » City of Appleton Comprehensive Plan Survey
- » City of Appleton Comprehensive Plan Interactive Website

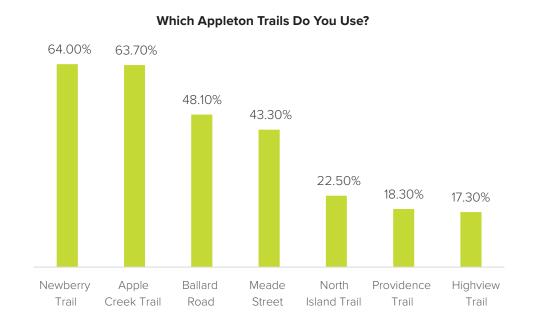
In general, respondents indicated a desire for more trails; support for the development of a dense network of trails, sidewalks, and bike lanes; and a need for more tools to better utilize the system, including wayfinding signage. A summary of comments received during the public involvement process follows.

June 2016 Trails Master Plan Survey Results

A public online survey was conducted from June 20 to July 5, 2016. The survey consisted of two parts: a four-question survey via SurveyMonkey as well as a public input map accessible through ArcGIS Online. The survey received 298 responses, and nearly 400 locations were noted on the map. The following section explores the results of this survey exercise.

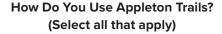
EXISTING TRAIL USE

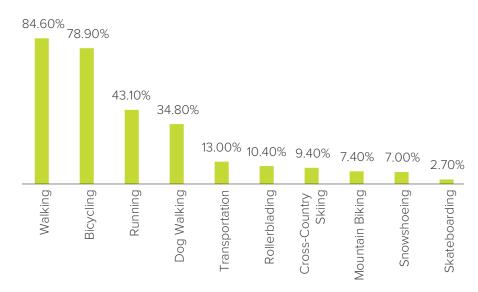
The SurveyMonkey component focused primarily on existing trail use and perceptions of existing trails. In addition to which trails, respondents were asked about how they use the trails and what features they like or dislike.



Respondents were asked to select the trails they currently use. Newberry and Apple Creek Trails received the highest response, while Ballard Road and Meade Street were also frequently indicated. Approximately 15% of participants also selected "Other." The most frequent trails listed here included CE Trail, Paper Trail, Thrivent Trail, and the Fox Valley Tech Trail.

Several respondents indicated that they currently use trails but are not sure of the names or were unaware that trails were named.





The use of Appleton trails is diverse, ranging from expected activities--such as running, walking, and biking--to more seasonal uses of trails, including snowshoeing and cross-country skiing. Requests in the final question for plowing trails during the winter suggests a desire for year-round use of the trails, which may accommodate a wider range of activities through all seasons.

What Things Do You Like or Dislike About Appleton Trails?

	LIKE	DISLIKE	NO OPINION
TRAILS CAN BE USED FOR COMMUTING	72.3%	2.1%	25.6%
TRAILS CAN BE USED FOR SOCIALIZING AND RECREATION	92.6%	0.7%	6.7%
DOGS ALLOWED ON TRAILS	61.6%	14.7%	23.6%
PAVING CONDITION OF TRAILS	83.9%	5.5%	10.6%
SAFETY OF ROAD CROSSINGS	67.5%	17.1%	15.4%
BENCHES AND TRASH RECEPTACLES	74.1%	9.3%	16.6%
WAYFINDING SIGNS	58.8%	12.7%	28.5%

In general, respondents indicated that they like the qualities of Appleton trails. These responses, in conjunction with the following open-ended question, seem to suggest however that while there are some qualities and locations that are well-liked, this does not preclude improvement of these qualities in the overall trail network. For example, safe crossings and improved wayfinding were frequently requested, despite receiving favorable responses here. Identifying best practice locations on Appleton trails will provide further insight into the preferred features of the network.

SUGGESTIONS + RECOMMENDATIONS

Respondents were encouraged to provide additional feedback regarding Appleton Trails, including any additional suggestions for improving existing trails or expanding the system. A total of 145 individual responses were received, which covered a wide range of topics.



Connectivity - 46.3%

Comments specifically requested greater connectivity among trails both in Appleton and across the region; connectivity to destinations, including parks; and connectivity among the network, including bike lanes. Many comments focused on the discontinuity of the existing trail system and asked for both greater connectivity to facilitate commuting as well as options for connecting trails into loop systems without having to drive from home. (Image: Transportation and Growth Management Oregon Guide)



Safety - 29.9%

Comments regarding safety covered three primary concerns. First was safety in terms of separation from motor vehicle traffic. Greater delineation of bike lanes and the development of more trails that provide a separation from motor vehicles are preferred. Second, safety related to crossings and interactions with other modes of travel were frequently mentioned. Finally improvements to safety on the trails were a significant concern; additional lighting, emergency call boxes, and increased patrol were often noted.



Location - 22.4%

Many respondents presented specific ideas for location of trails and areas needed for improved connections. Increased opportunities along the river as well as connections with Grand Chute were most frequently noted. Increased trail opportunities in the southern portion of Appleton were also preferred. In addition to specific locations, 3.4% of respondents included preference for more natural settings in trail siting and design.



Amenities - 14.3%

Respondents requested additional amenities for the trails, including more benches, trash receptacles, dog waste stations, restroom facilities, and drinking fountains.

Crossings - 12.2%

Crossings were most often noted in conjunction with concerns regarding safety and connectivity of trails. Interaction of trails with roadways and other points of conflict with motor vehicles discourages use of trails. Desire to use trails with family members of all ages and abilities was mentioned with requests for improved crossing conditions. Comments also included requests for improved ADA accessibility via curb ramps.



Signage - 10.2%

Several comment expressed desire for more information regarding trails. Signage was noted by 10.2% of respondents, while nearly 5% of respondents also indicated improved information via the internet or other mediums. Respondents requesting more information indicated that they would be more likely to use other trails or connect trips if they could learn more. Wayfinding and regulatory signage were specifically requested to help users navigate the existing trail system and connect more easily to nearby destinations.



Trail Uses - 7.5%

Mountain biking, dog walking, and ATV use were mentioned as desired activities for the trail system. Greater opportunities for commuting as well as loop connections were also noted.



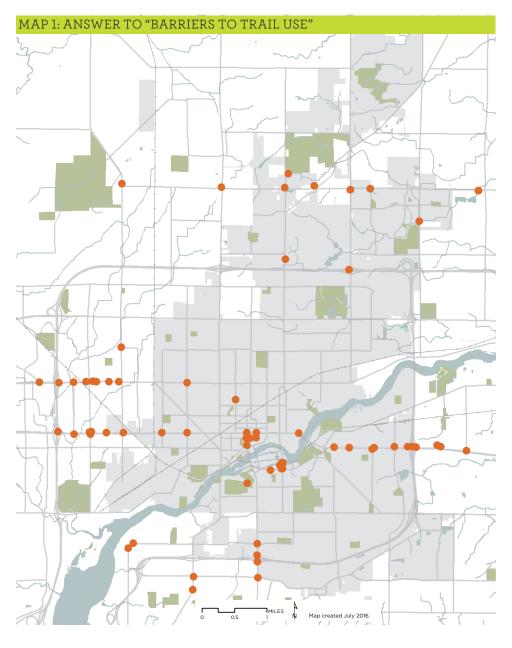
Maintenance - 6.1%

In regard to maintenance concerns, many respondents included both snow plowing in the winter and vegetation trimming as primary concerns. Similarly, some respondents requested information about repaving plans due to the surface condition along several trails.



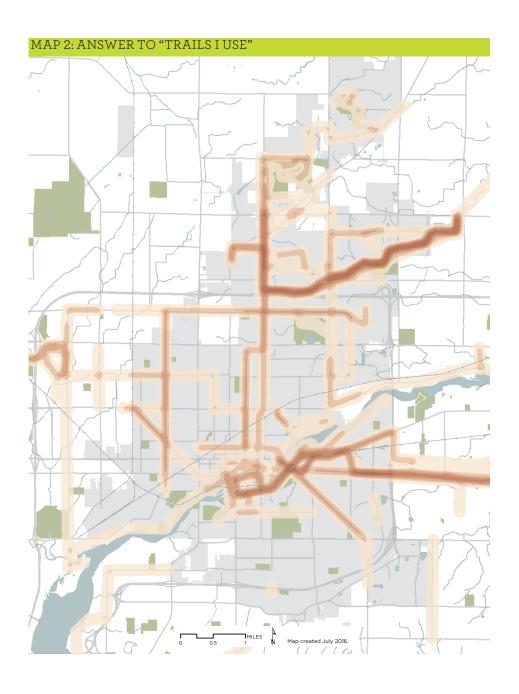
PUBLIC INPUT MAP

An online map provided the opportunity for Appleton residents to provide feedback on the location of trails and barriers to trail use. The inclusion of the mapping component was especially useful in this exercise as many respondents indicated that they were unaware of the names of the trails they use

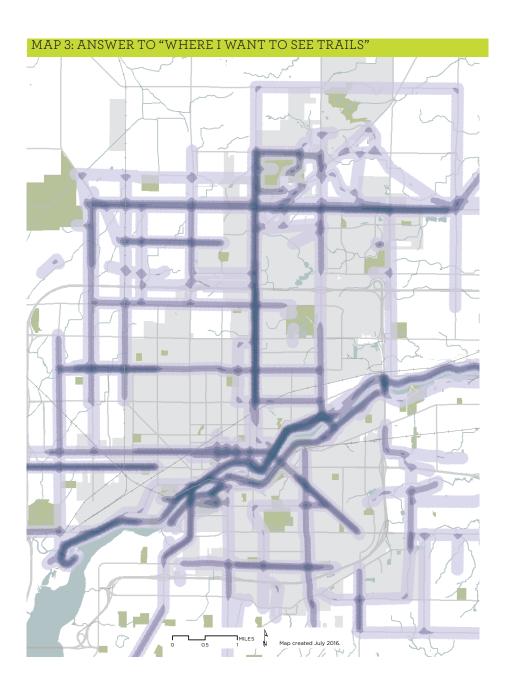


 $A\ total\ of\ 68\ barriers\ were\ noted,\ occurring\ primarily\ noted\ along\ major\ arterials,\ especially\ on\ roadways\ that\ provide\ regional\ connectivity.\ An\ additional\ cluster\ of\ barriers\ were\ noted\ in\ downtown.$

Darker areas represented a greater frequency of trail use, as indicated by 108 respondents. The most frequently noted trails include those along the river as well as trails and roadways in the northern portion of the city. These results are consistent with the survey responses indicated greatest use of the Newberry and Apple Creek Trails.



Darker areas represented a greater frequency of desired trail locations, as indicated by 210 respondents. Improved trails along the river, a north-south connection north of the river, and an east-west connection in the northern portion of the city were most commonly indicated.



March 2016 City of Appleton Comprehensive Plan Issues and Opportunities Workshop

On March 14 and 16, public workshops were held to kick off the update to the city's Comprehensive Plan. Attendees participated in three activities. First they were asked to share their hopes and dreams for the future of Appleton as well as ideas for investing in the future. Several comments related to trail improvements, providing more trails, creating greater connectivity, and improving safety. A full list of comments can be found in Appendix 1.

Second, participants were asked what types of taxable and non-taxable development they would like to see in Appleton. Forty-six trail-related comments were generally in support of more and better-connected trails. More specific comments can be found in Appendix 1.

Finally, participants were asked to provide input specifically related to trails. A paper survey with accompanying map captured input regarding ways to improve and expand the existing trail network. This exercise was similar to the online survey described previously. The map below captures the locations identified as areas of high use or in need of improved connections during this exercise.



Map Summary
Participants indicated trails they frequently use, connections
they'd like to see in the future, and areas in need of
improvements. This map captures the summary of the
comments provided during the March meetings described
above.

May 2016 City of Appleton Comprehensive Plan Downtown & Trails Design Workshop

As part of the May 16-18 Design Workshop, the public had additional opportunities to share ideas related to the city's existing and proposed trail system. The kick-off meeting included small group exercises designed to solicit input into the downtown planning areas as well as the city's bike and pedestrian network. A summary of ideas and comments were generated during the report-out session at the end of the small group exercises; trail-related key findings are listed below.

- » Public access to the river is important; more stairs and bridges are needed
- » Wayfinding and beautification are needed to enhance river connectivity and downtown in general, especially for pedestrians
- » Trails need to be connected beyond the river and downtown to encourage broader access via walking and biking
- » Visitors need better orientation to downtown and the river
- » Jones Park should be used to connect the river to downtown

On the morning of May 17th, a Community Bike Tour was conducted by Fred Young (Alta) and Rob Gusky (Fox Cities Cycling Association). The tour included several stops along the Fox River, where participants had the opportunity to share their ideas for enhancing the trail system.

At the end of the three-day workshop, approximately 75-100 people attended the May 18th Open House, which included several display boards in the hall of the City Center Plaza. Two 30-minute presentations were provided to attendees. Written comments were solicited for key issues explored during the workshop. A summary of trail and walkability-related comments can be found in Appendix 1.

City of Appleton Comprehensive Plan Website

The ongoing Comprehensive Plan Update gathered data from over 1,000 Appleton residents in both an online survey and online web map format. The survey covered a wide range of topics, primarily related to downtown development; however, the importance of trails, a comprehensive bicycle network, and active transportation opportunities was clearly noted across many questions.

Over 50% of respondents indicated support for the development of more bicycle lanes in Appleton, while over 60% of respondents agreed that there should be more off-street dedicated facilities for bicyclists and pedestrians. Comments specific to these facility types echoed the results of the Trails Master Plan Survey: respondents want a connected low-stress network with safer crossings at railroads and intersections, more wayfinding elements, and more opportunities to connect to parks and other destinations. Many respondents called for facilities that accommodate all ages and abilities and that facilitate utilitarian trips, such as running errands, or commuting by bicycle or foot.

An online map solicited specific feedback related to a variety of issues, including 56 trails-specific comments. Comments identified critical links in the existing trail network, opportunities for enhanced trail connections, and areas in specific need of additional maintenance and repair. A full list of comments can be found in Appendix 1.



The online map allowed respondents to identify specific locations of concern for items addressed in the Comprehensive Plan.

Stakeholder Meetings

In addition to public involvement events listed above, four stakeholder committee meetings were held throughout the course of the project. The stakeholder committee was assembled from a broad range of interests to help guide the development of the plan. The consultant team also presented to the Bicycle and Pedestrian Advisory Committee and met with key stakeholders from Public Works and the Office of Economic Development.

Summary Of Public Involvement Activities

In general, Appleton residents are in favor of a well-connected active transportation network. Residents desire connections to destinations and across the region. An expanded trail network that is easy to navigate and addresses concerns of safety and accessibility is preferred, as is accommodation of all ages and abilities. Noted barriers appear to impact existing regional connectivity, while locations for new and improved trails focus on providing connections within the city. Additions of amenities or wayfinding signage may improve the utility of the trail network for residents, and improved maintenance may increase use across all seasons.

The information collected during the stakeholder meetings as well as that compiled during the public survey will help inform project development and selection as part of the Trails Master Plan.



PROJECT PRIORITIZATION

Projects to be addressed through this plan are developed from the gaps, key corridor connections, and existing trails analysis explored in the previous section. Projects identified include both new connections as well as projects derived from the trail audit findings. This section defines potential project segments then prioritizes these segments to identify which projects will have the most impact and should be implemented first.

Project Development

Three types of projects were identified based on trail audit data and proposed facilities:

- » Routine Maintenance: These projects capture routine maintenance that must occur on trails.

 These projects are captured in the accompanying Trail Design Best Practices manual (Appendix 4)
- » One-time Upgrade: Upgrade projects represent an opportunity to increase existing trail quality either through improving surface quality (addressing severe cracking, reducing drainage concerns) or addressing safety concerns through intersection and sightline improvements
- » New Connections: New connections are proposed trail segments, as identified in the future network map in the previous section

Project Prioritization

Full implementation is expected to take many years, which makes it important to develop a process for selecting which projects should be implemented first. The criteria developed for project prioritization are based on best practices in the field and are consistent with the goals and themes of existing local and regional bike plans, including serving a wide range of users, providing connections to key destinations, and closing network gaps.

Separate criteria were developed for Upgrade and New Connection projects to reflect the role these projects play in enhancing the network. While the criteria aim to provide an objective assessment of network improvements, project feasibility and priority are also impacted by ongoing planning efforts within the city, including CIP development and near-term department work plans. For this reason, the initial prioritization results are then reviewed with city staff and adjusted based on this feedback.

UPGRADE PROJECTS

Upgrade projects address all possible upgrades along a project segment as identified during the trail audit. Project segments are defined as existing trail segments that occur between major roadways, railroads, and other trails.

Upgrade projects located along the river scored the highest. These projects will serve the greatest number of residents. Although not considered in the prioritization exercise, these locations also provide significant connectivity to existing and proposed network links as well as a wide range of destinations.

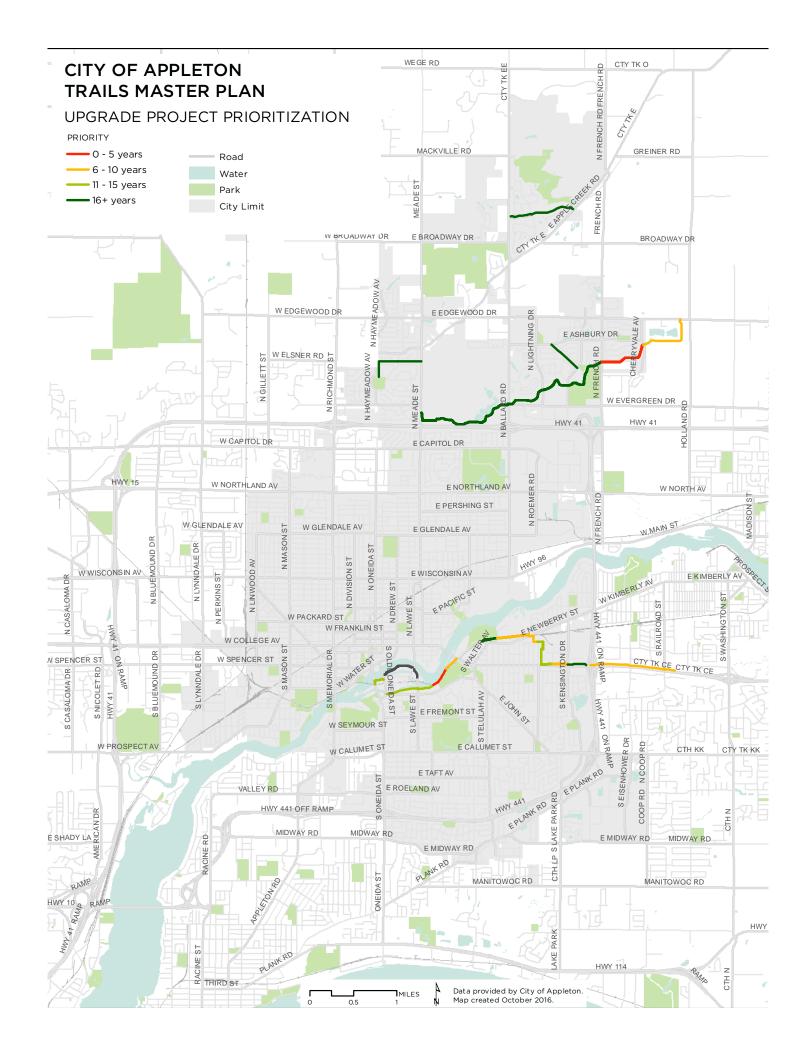
The projects located along these segments are primarily related to surface quality, and when combined with crossing improvements can provide an immediate benefit to trail users in terms of both quality and safety. The North Island Trail scored as a high priority upgrade; however, the trail is being resurfaced during Fall 2016 and is omitted from the results on the following page.

Project priority scores were grouped based on 4 time periods for implementation: 0-5 years, 6-10 years, 11-15 years, and 16 or more years, where highest priority projects should be considered for

completion in the next 5 years. However, current scores are relative to the upgrade issues identified during inventory, and additional maintenance concerns may arise over subsequent years that can impact upgrade priority.

TABLE 3: UPGRADE PROJECT PRIORITIZATION CRITERIA

CRITERION	DEFINITION	OPERATIONAL DEFINITION	POINTS
Cost	What is the anticipated upgrade cost? (Low - Medium - High)	Project cost will be relatively low (surface improvements)	1
		Project cost will be relatively moderate (Drainage)	3
		Project cost will be relatively high (crossing, sightline, and obstruction improvements)	5
Safety	To What extent will the project provide an immediate safety	Project benefits safety through crossing or sightline improvements	5
	benefit?	Project benefits safety by addressing pathway obstructions	3
		Project does not provide an immediate safety benefit	1
Ease of Implementation	How difficult is the project to implement?	Project implementation will be relatively difficult (crossing, sightline, and obstruction improvements)	1
		Project implementation will be relatively moderate (drainage improvements)v	3
		Project implementation will be relatively easy (surface)	5
Quality	To what extent doest the project provide an immediate benefit to	Project benefits quality through surface or drainage improvements	5
	the overall quality of the trail?	Project does not provide an immediate benefit to the overall quality of the trail	1
Benefit to Residents	What portion of the population will benefit from the upgrade?	Segment is within census tract with the highest population density (top 25% of census tracts)	5
		Segment is within census tract moderate population density (Top 50% of census tracts)	3
		Segment is within census tract with lowest population density (Bottom 50% of census tracts)	1
Extent of Deficiency	What is the density of upgrades recommended along a project	Upgrade projects are most dense along segment (Top 25% of segments)	5
	segment?	Upgrade projects are moderately dense along segment (Top 50% of segments)	
		Upgrade projects are least dense along segment (Bottom 50% of census tracts)	1
Benefit to under-served populations	To what extent does the new project provide network access to Census Tracts with identified need?	Project occurs in Census Tract with greatest identified need (Top 25% of Census Tracts)	5



PROJECT COST ESTIMATES

The table below shows cost unit estimates for each upgrade project issue. Each project may have had none, one, or multiple issues. The following pages show the total cost to upgrade each segment. To view the type of issue associated with each segment see Appendix 4.

UPGRADE PROJECT UNIT COSTS				
ISSUE	UNIT/COST ASSUMPTIONS	COST PER UNIT		
Drainage	Installation of 16 LF of 12" culvert pipe (assumes 90 feet of trail removal and replacement)	\$8,500		
Pavement Surface - Crackfill	Assumes crack is full trail width	\$50		
Pavement Replacement	LF (assumes removal and replacement as part of a larger project)	\$25		
Missing Crosswalk	Crosswalk (assumes a crossing width of 40 feet and ladder style markings)	\$1,520		
Bollard Removal	One bollard (assumes concrete base)	\$375		
Gate Removal	One Gate (assumes concrete base and two posts per gate)	\$750		



 $Upgrade\ projects, such\ as\ improve\ crossings\ with\ roadways\ and\ rail\ lines, can\ improve\ trail\ safety\ and\ increase\ comfort\ a\ wide\ range\ of\ trail\ users.$

UPGRADE PROJECT LIST

UPGRADE SEGMENTS 1-5 YEARS					
LOCATION	CROSS STREET 1	CROSS STREET 2	LENGTH (MILES)	PROJECT COST (WITH CONTINGENCY)*	
Newberry Trail	West of E College Ave	East of S Lawe Street	0.24	\$51, 600	
Applecreek Trail	Cherryvale Ave	N French Rd	0.6	\$74, 400	
			SUBTOTAL**	\$126,000	
			TOTAL***	\$151,200	

UPGRADE SEGM	ENTS 6-10 YEARS			
LOCATION	CROSS STREET 1	CROSS STREET 2	LENGTH (MILES)	PROJECT COST (WITH CONTINGENCY)*
Newberry Trail	E College Ave	West of E College Ave	0.17	\$28,800
Newberry Trail	E Newberry St	West of E Newberry St	0.37	\$66,000
Newberry Trail	E Newberry St	South of E Newberry St	0.18	\$27,600
Newberry Trail	S Kensington Dr	West of S Kensington Dr	0.18	\$28,800
Newberry Trail	Highway 441 Ramp	Highway 441 Ramp	0.05	\$0
Newberry Trail	Highway 441 Ramp	Highway 441 Ramp	0.02	\$0
Newberry Trail	Highway 441 Ramp	Highway 441 Ramp	0.05	\$0
Newberry Trail	West of S Railroad St	Highway 441	0.39	\$0
Newberry Trail	S Railroad St	West of S Railroad St	0.39	\$0
Newberry Trail	East of S Railroad St	S Railroad St	0.12	\$0
Apple Creek Trail	E Edgewood Dr	Cherryvale Ave	0.7	\$34,800
			SUBTOTAL**	\$186,000
			TOTAL***	\$223,200

^{*}Contingency is a 1.2 multiplier

 $^{**}Costs\ assume\ work\ is\ park\ of\ larger\ projects$

^{***} Total includes engineering and construction oversight with a 1.2 multiplier.

UPGRADE PROJECT LIST

UPGRADE SEGMENTS 11-15 YEARS					
LOCATION	CROSS STREET 1	CROSS STREET 2	LENGTH (MILES)	PROJECT COST (WITH CONTINGENCY)*	
Newberry Trail	S Lawe Street	S Olde Oneida Street	0.37	\$1,200	
Newberry Trail	East of S Lawe Street	S Lawe Street	0.21	\$1,200	
Newberry Trail	West of S Kensington Dr	N of E College Ave	0.47	\$94,800	
			SUBTOTAL**	\$97,200	
			TOTAL***	\$116,640	

UPGRADE SEGM	UPGRADE SEGMENTS 16+ YEARS				
LOCATION	CROSS STREET 1	CROSS STREET 2	LENGTH (MILES)	PROJECT COST (WITH CONTINGENCY)*	
Newberry Trail	West of E Newberry St	West of E Newberry St	0.18	\$30,000	
Newberry Trail	Highway 441	S Kensington Dr	0.22	\$33,600	
Apple Creek Trail	N Ballard Rd	N Meade St	1.23	\$26,400	
Apple Creek Trail	N Lightning Rd	N Ballard Rd	0.46	\$94,800	
Applecreek Trail	N French Rd	N Lightning Rd	0.94	\$33,600	
Highview Trail	N Meade St	West of N Meade St	0.4	\$68,400	
Highview Trail	N Meade St	West of N Meade St	0.27	\$44,400	
Providence Trail	E Ashbury Dr	E of N Providence Ave	0.17	\$32,400	
Providence Trail	E Ashbury Dr	E of N Providence Ave	0.09	\$14,400	
Providence Trail	E Ashbury Dr	E of N Providence Ave	0.09	\$0	
Providence Trail	E Ashbury Dr	E of N Providence Ave	0.14	\$42,000	
			SUBTOTAL**	\$420,000	
			TOTAL***	\$504,000	

^{*}Contingency is a 1.2 multiplier

 $^{{\}it **Costs}\ assume\ work\ is\ park\ of\ larger\ projects$

^{***}Total includes engineering and construction oversight with a 1.2 multiplier.

NEW CONNECTIONS

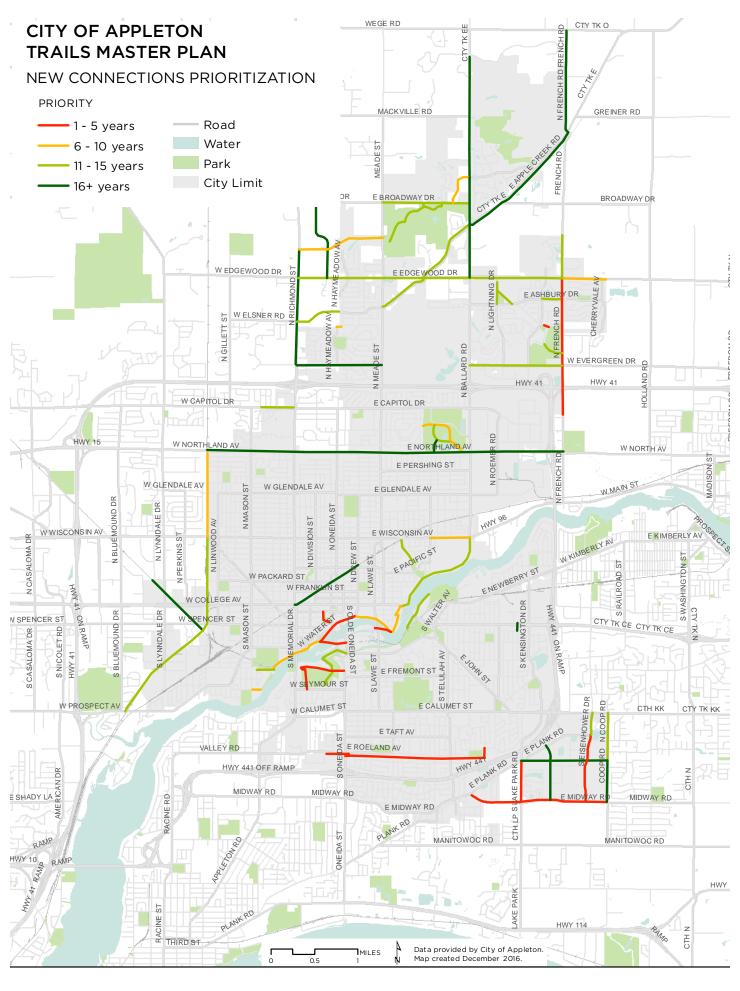
New Connections consider proposed trail segments, as identified in the proposed network map. Project segments are defined as proposed trail segments that occur between existing network segments. The existing network includes trails, bike lanes, and signed routes. Sidewalks, while relatively complete throughout the city, were not included here as more information regarding ADA compliance and sidewalk quality is needed to determine effective network connections.

Following the initial prioritization process, city staff reviewed the recommendations and provided adjustments to better reflect ongoing planning and development efforts within the city.

Project priority scores were categorized based on anticipated timeline for completion. Highest priority projects should be considered in the next 5 years, with subsequent projects falling into categories of 6-10 years, 11-15 years, and 16 or more years.

TABLE 4: NEW CONNECTION PRIORITIZATION CRITERIA

CRITERION	GENERAL DEFINITION	OPERATIONAL DEFINITION	POINTS
Network	To what extent does the	Corridor connects two existing bicycle facilities.	5
Connectivity	new project enhance connectivity between	Corridor extends an existing facility	3
	existing trails or on-street bicycle facilities?	Corridor creates a new, unconnected facility.	0
Serves Destinations	To what extent does the project provide connections to	The corridor provides direct access within 1/4 mile to 5 or more schools, parks and top ten employment locations in Appleton	5
	destinations including parks, schools and jobs?	The corridor provides direct access within 1/4 mike to one to four schools, parks and top ten employment locations in Appleton	3
		The corridor does not provide direct access to a park, school or top ten employment location in Appleton	0
Geographic Equity	To what extent does the new project provide bicycle network access to	The corridor would provide access to residents with no connection to the bicycle or trail network within 1/4 mile	5
	residents who currently do not have access?	The corridor would provide access to residents with no E/W or N/S connection to the bicycle or trail network within 1/4 mile	3
		The corridor provides a new connection in an area already served by the network	0
Benefit to under-served	To what extent does the new project provide bicycle network access to	Project occurs in Census Tract with greatest identified need (Top 25% of Census Tracts)	5
populations	residents of Census Tracts with identified need?	Project occurs in Census Tract with moderate identified need (Top 50% of Census Tracts)	3
		Project occurs in Census Tract with lowest identified need (Bottom 50% of Census Tracts)	0



NEW`CONNECTIONS PROJECT LIST

NEW CONNECTIONS 1	NEW CONNECTIONS 1-5 YEARS				
LOCATION	CROSS STREET 1	CROSS STREET 2	LENGTH (MILES)	PROJECT COST (WITH CONTINGENCY)*	
E Eagle Flats Pkwy	S Olde Oneida St	S Lutz Dr	0.30	\$282,000	
South of Fox River	S Oneida St	W Seymour St	0.79	\$755,000	
S of W Valley Rd	E of S Oneida St	E of W Schindler Pl	0.26	\$245,000	
S of E Roeland Ave	Schaefer Circle	S Oneida St	1.73	\$1,642,000	
E Midway Rd	Coop Rd	E Plank Rd	1.59	\$1,508,000	
S Lake Park Rd	Valley Lane	Manitowoc Rd	0.47	\$447,000	
E Water St	S Drew St	E Eagle Flats Pkwy	0.51	\$483,000	
E of E Fall Creek Lane	N Fallview Lane	E of N Fallview Lane	0.06	\$56,000	
N French Rd	E Edgewood Dr	City Boundary	1.57	\$1,493,00`0	
Eisenhower Dr	E Plank Rd	E Midway Rd	0.79	\$748,000	
S of W Lawrence St	W Lawrence St	W Prospect Ave	0.17	\$162,000	
E of S Lawe St	W College Avenue	S Lawe St	0.19	\$182,000	
			SUBTOTAL**	\$8,003,000	
			TOTAL***	\$9,603,600	

NEW CONNECTIONS 6-10 YEARS				
LOCATION	CROSS STREET 1	CROSS STREET 2	LENGTH (MILES)	PROJECT COST (WITH CONTINGENCY)*
S Lutz Dr	E Eagle Flats Pkwy	W of S Pierce Ave	0.65	\$617,000
S of W College Ave	W College Ave	N Drew St	0.87	\$826,000
Railway	W Northland Ave	W Wisconsin Ave	0.97	\$926,000
E Edgewood Dr	City Limit	N French Rd	0.51	\$481,000
N of E Broadway Dr	N Ballard Rd	E Broadway Dr	0.42	\$400,000
E Wisconsin Ave	N Ballard Rd	N Owaissa St	0.46	\$437,000
Future Spartan Ave	Meade St	Richmond St	1.00	\$952,000
S Mason St	W Prospect Ave	S Lutz Dr	0.10	\$92,000
Memorial Park	E Northland Ave	N McDonald St	0.64	\$611,000
E of Future Haymeadow Dr	Highview Trail	Future Haymeadow Dr	0.01	\$10,000
			SUBTOTAL**	\$5,352,000
			TOTAL***	\$6,422,400

^{*}Contingency is a 1.2 multiplier

**Costs assume work is park of larger projects

***Total includes engineering and construction oversight with a 1.2 multiplier.

NEW CONNECTIONS PROJECT LIST

NEW CONNECTIONS	5 11-15 YEARS	ı	ı	<u>, </u>
LOCATION	CROSS STREET 1	CROSS STREET 2	LENGTH (MILES)	PROJECT COST (WITH CONTINGENCY)*
E South River St	E South River Street	N of W Seymour St	0.70	\$668,000
N Coop Rd	E Calumet St	Valley Lane	0.55	\$523,000
South of N Green Bay Rd	NE of E College Ave	SW of College Ave	0.47	\$446,000
N Ballard Road	E Wisconsin Ave	W College Ave	1.26	\$1,193,000
Railway	W College	W Prospect Ave	1.61	\$1,533,000
Railway	W Wisconsin Ave	W College Ave	0.79	\$747,000
W Capitol Dr	N Richmond Dr	N Gillett St	0.38	\$357,000
N Lightning Dr	South of E Edgewood Dr	E Ashbury Dr	0.25	\$240,000
E of N Lightning Dr	E Ashbury Dr	N Lightning Dr	0.23	\$222,000
North of E Ashbury Dr	N Providence Ave	N French Rd	0.25	\$236,000
E Edgewood Dr	N French Rd	N Ballard Rd	2.05	\$1,948,000
E Edgewood Dr	N Meade St	N Richmond St	0.98	\$933,000
Youth Sports Complex	N French Rd	Apple Creek Trail	0.24	\$232,000
Planman Park	North of E Broadway Dr	West of N Meade St	1.05	\$996,000
South of Railway	N Rankin St		0.29	\$279,000
W College Ave	S Mason St	N Lilas Dr	0.51	\$485,000
E Broadway Dr	N Ballard Rd	City Boundary	1.00	\$950,000
E Evergreen Dr	N French Rd	N Ballard Rd	1.06	\$1,011,000
E Applecreek Rd	N Ballard Rd	N Meade St	1.44	\$1,365,000
Eisenhower Dr	E Calumet St	E Plank Rd	0.25	\$241,000
French Rd	City Boundary	E Edgewood Dr	0.50	\$475,000
E of Richmond St	N Haymeadow Ave	Richmond St	0.52	\$495,000
S of Pierce Park	S Lutz Dr	S Lehman Ln	0.20	\$191,000
Memorial Park			0.39	\$375,000
			SUBTOTAL**	\$16,141,000
			TOTAL***	\$19,369,200.0

^{*}Contingency is a 1.2 multiplier

**Costs assume work is park of larger projects

***Total includes engineering and construction oversight with a 1.2 multiplier.

NEW CONNECTIONS PROJECT LIST

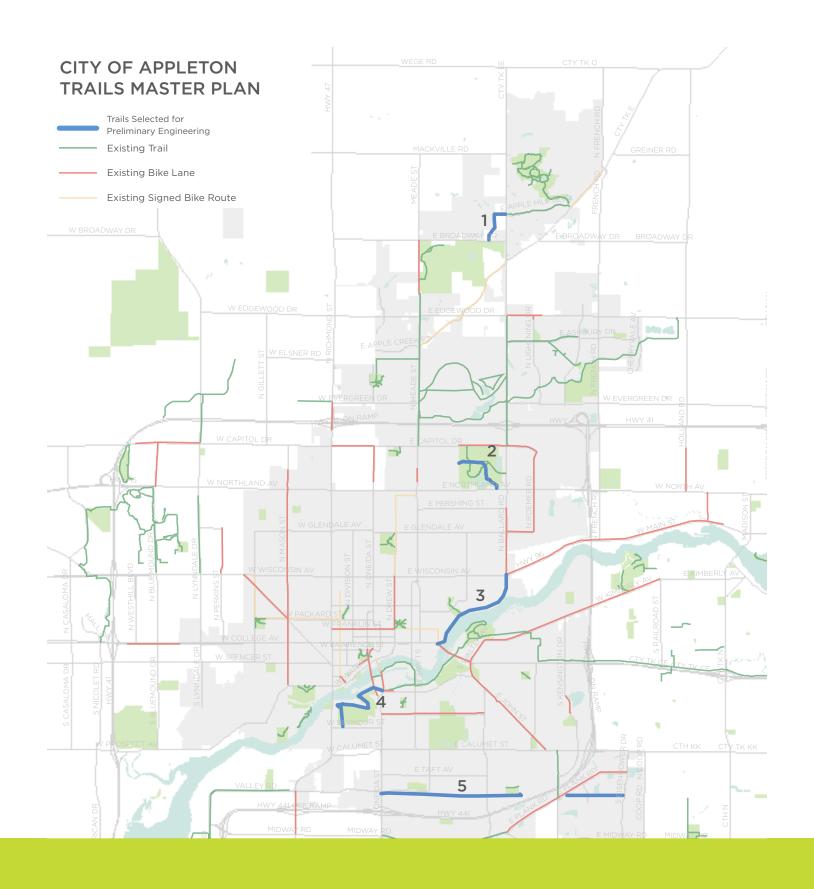
NEW CONNECTIONS 16-	+ YEARS			
LOCATION	CROSS STREET 1	CROSS STREET 2	LENGTH (MILES)	PROJECT COST (WITH CONTINGENCY)*
Coop Rd	Valley Lane	E Midway Rd	0.48	\$453,000
S Quest Dr	E Plank Rd	E Midway Rd	0.64	\$607,000
W College Avenue/Railway	S Drew St	N Richmond St	0.87	\$827,000
Railway	N Bluemound Dr	Proposed Trail	0.82	\$779,000
N Richmond Dr	N of E Edgewood Dr	N of W Evergreen Dr	1.32	\$1,255,000
W of N Richmond St	W Broadway Dr	W Edgewood Dr	0.95	\$904,000
S Covenant Lane	Newberry Trail	E Henry St	0.09	\$86,000
S of E Plank Rd	Coop Rd	E Plank Rd	0.99	\$942,000
N French Rd	Wedge Road	E Apple Creek Rd	1.17	\$1,114,000
N Ballard Rd	City Limit	E Apple Hill Blvd	1.39	\$1,321,000
E Apple Creek Rd	N French Rd	N Ballard Dr	1.58	\$1,506,000
W Evergreen Dr	N Meade St	N Richmond St	0.98	\$934,000
N Ballard Rd	E Apple Hill Blvd	E Edgewood Dr	1.16	\$1,098,000
Memorial Park	E Northland		0.13	\$126,000
Northland Ave	French Rd	E Meade St	1.60	\$1,521,000
Northland Ave	E Meade St	City Limit	1.70	\$1,616,000
			SUBTOTAL**	\$15,089,000
			TOTAL***	\$18,106,800

^{*}Contingency is a 1.2 multiplier

^{**}Costs assume work is park of larger projects

^{***} Total includes engineering and construction oversight with a 1.2 multiplier.

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PROJECT DEVELOPMENT

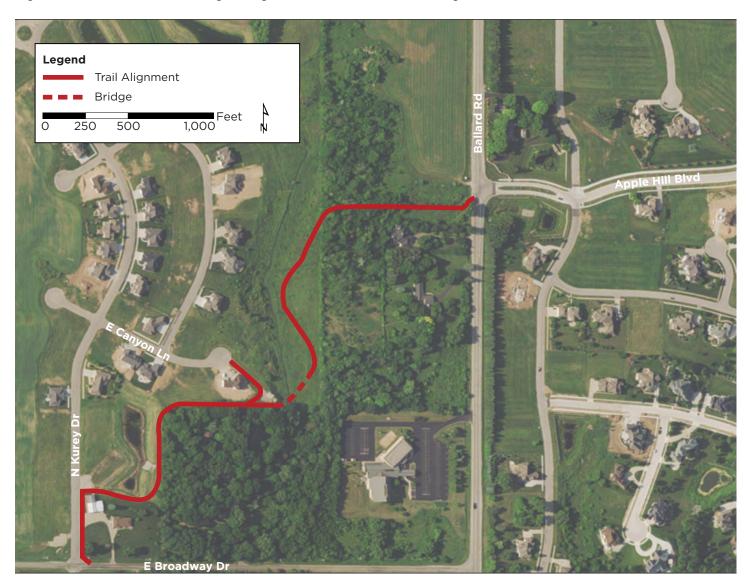
Five projects were selected for conceptual design development. The five projects--based on input from city staff, the project team, the stakeholder committee, and the Bicycle and Pedestrian Advisory Committee-- include the following:

- 1. Plamann Park Connection
- 2. Memorial Park Loop
- 3. Peabody Park/Fox River Trail
- 4. Riverview Gardens
- 5. WE Energies Trail

This section provides detail for the preliminary engineering completed for each of these projects, including trail descriptions, alignments, visualization, time-lines, and opinions of probably cost.

Plamann County Park

The Plamann Park access trail is a 3,000 ft bike and pedestrian path connecting the Apple Hill Farms development to Plamann Park. Primary features of this trail include a 200 ft pedestrian bridge to safely navigate slope and meet ADA regulations. The trail is routed along a navigable stream and meanders along minor terrain.



CHALLENGES

- » Utilities: None identified at this time.
- » Property Ownership: Easements may be required for final grading.
- » Slopes: Multiple slopes within the project will require significant cuts and fills to achieve an ADA compliant path. In one instance a significant drop off occurs near a building in close proximity to navigable stream crossing and property boundary which requires construction of longer bridge to meet ADA requirements and provide passage over the water feature.
- » Stormwater Management: Given the trail length and disturbance, Best Management Practices (BMPs) and stormwater facilities will need to be provided.
- » Hydric soils are present a wetland delineation will be required. The presence of hydric soils across significant portions of the project site will present challenges in siting stormwater management facilities and BMPs. The edge of trail is placed 75 feet from the navigable stream in an attempt to avoid WDNR waterway permitting but, may require permitting for shoreland zoning.
- » The South connection to Broadway Drive which would ultimately enter Plamann Park is a 36-foot wide road. On-site inspection indicates that a 2-lane road (12-foot lanes) with a 7-foot separation and 10-foot trail accommodation would be a feasible alternative. This option lends itself to phased construction. The first phase could be to place chevron painting in the 7-foot separation median. The final recommendation would be to place a curb at the edge of traveled lane, as a physical barrier between vehicle traffic and trail users.
- » There is a garage located 200 feet north of the intersection at Kurey Drive and Broadway Drive which may present challenges in siting the trail while allowing positive drainage. As the trail runs north and diverts from Kurey Drive along the existing detention pond, the available area for a trail is limited.
- » The East connection at Ballard Road and Apple Hill Boulevard currently has the crossing placed to connect to south Apple Hill Boulevard. Apple Hill Boulevard currently has sidewalk access on both the north and south side of the road. An option to be considered is placing a pedestrian refuge at the median located on the east side of Apple Hill Boulevard. In doing so, the Plamann Park trail could connect and allow users to safely traverse to either the north or south side of Apple Hill Boulevard.



 ${\it Photo simulation showing view of trail from Ballard \, Rd.}$

PERMITTING STRATEGY

The following list of agencies will need to be engaged throughout the design and permitting phases:

- » U.S. Army Corps of Engineers (USACE)
- » Wisconsin Department of Natural Resources (WDNR)
- » Outagamie County

IMPLEMENTATION TIMELINE

YEAR	1	2	3	4	Ę	5
DESIGN	24 months					
AGENCY COORDINATION + PERMITTING*	48 months					
CONSTRUCTION					5	

 $^{{\}tt *Does\ not\ include\ time\ for\ hazmat\ remediation}$

OPINION OF PROBABLE COSTS

Design Total	\$163,000
Design Engineering	\$163,000
Construction Total	\$1,492,000
Construction (with Contingency)*	\$1,356,000
Construction Oversight	\$136,000
Project Total	\$1,655,000

 $[*]Does\ not\ include\ real\ estate\ acquisition\ or\ hazardous\ remediation\ costs$

FUNDING

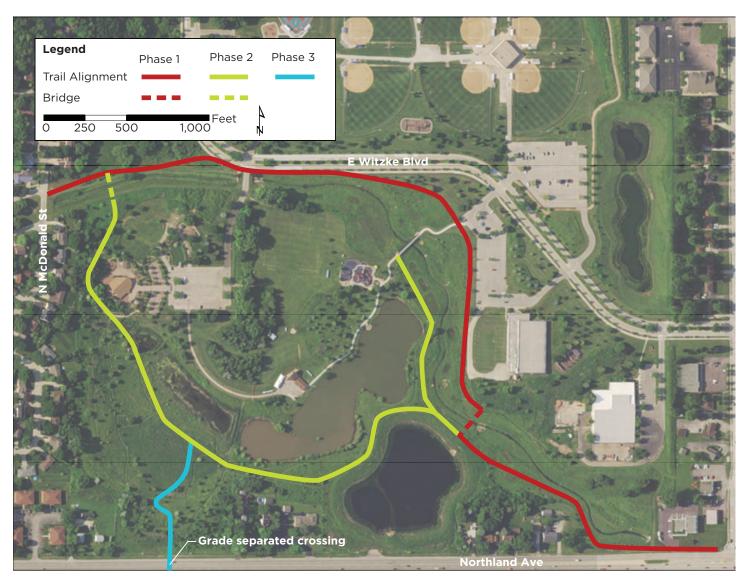
POTENTIAL MATCHING	MAJOR FUNDING	CRITERIA & REQUIREMENTS
Local funding	WDNR; TAP	 TAP eligible (connects park across Ballard Rd. to adjacent trail network and residential areas) WDNR eligible (provides access to outdoor based nature recreation)

 $^{{}^*\!}Opinions~are~in~2016~dollars~based~upon~recent~trail~projects~in~the~vicinity~of~the~project~location$

^{*}Construction includes: Clearing & Grubbing, Common Excavation, EBS, Borrow, Base Aggregate Dense (1-1/4"), Asphaltic Surface, Concrete Sidewalk 6-inch (at take off and end points), Detectable Warning Fields, Culvert Pipe & Apron Endwalls, Pedestrian Bridge, Lighting, Signage, Restoration, Erosion Control, Mobilizaton, and Stormwater Management

Memorial Park Loop

The Memorial Park trail is an 8,800-foot long bike and pedestrian path connecting users from Ballard Road and McDonald Street. The trail is designed to allow users to access various amenities throughout the park. The trail navigates itself around drainage features and includes two 60-foot pedestrian bridges. The trail also recommends a pedestrian bridge over Northland Avenue connecting Longview Drive and Owalssa Street to the south side of Memorial Park.



CHALLENGES

- » Utilities: Utility poles and overhead facilities will need to be relocated along Northland Avenue.
- » Property Ownership: Possible easements may be required for final grading and construction of trailheads.
- » Stormwater Management: Given the trail length and disturbance, Best Management Practices (BMPs) and stormwater facilities will need to be provided.
- » Navigable stream present on the southeast corner of the project location. Hydric soils are present a wetland delineation will be required. The presence of hydric soils across over significant portions of the project site will present challenges in siting stormwater management facilities and BMPs.
- » The City of Appleton has expressed interest in placing a pedestrian bridge from the south side of Memorial Park, over Northland Avenue, and connecting to Longview Drive and Owalssa Street. Review of this option presents immediate issues with the overhead utility and vehicle vertical clearance requirements. Complying with ADA requirements will present challenges, particularly with slopes and landings.



 ${\it Photo simulation showing entry to Memorial Park from NMcDonald Street.}$

PERMITTING STRATEGY

The following list of agencies will need to be engaged throughout the design and permitting process:

- » Section 4(f)
- » Wetlands
- » Outagamie County

IMPLEMENTATION TIMELINE: PHASE I

YEAR	1	2	2	3		4
DESIGN	18 months					
AGENCY COORDINATION + PERMITTING*	36 months					
CONSTRUCTION					3	

IMPLEMENTATION TIMELINE: PHASE II

YEAR	1	2	3
DESIGN	12 months		
AGENCY COORDINATION + PERMITTING*	24 months		
CONSTRUCTION			2

IMPLEMENTATION TIMELINE: PHASE III

YEAR	1	2	3	4	ı
DESIGN	24 months				
AGENCY COORDINATION + PERMITTING*	42 months				
CONSTRUCTION					3

^{*}Does not include time for hazmat remediation

OPINION OF PROBABLE COSTS

	PHASE I	PHASE II	PHASE III
Design Total	\$128,000	\$90,000	\$376,000
Design Engineering	\$128,000	\$90,000	\$376,000
Construction Total	\$1,169,000	\$826,000	\$3,450,000
Construction (with Contingency)*	\$1,063,000	\$751,000	\$3,136,000
Construction Oversight	\$106,000	\$75,000	\$314,000
Project Total	\$1,297,000	\$916,000	\$3,826,000

 $[*]Does\ not\ include\ real\ estate\ acquisition\ or\ hazardous\ remediation\ costs$

FUNDING

PHASE	POTENTIAL MATCHING	MAJOR FUNDING	CRITERIA & REQUIREMENTS		
Phase 1	Local Funding	TAP	» TAP Eligible (Connects to residential areas & Ballard bike lanes providing strong North-South connection)		
Phase 2	Local funding (In addition to sources cited in funding summary seek funding from local service clubs & health care providers)	WDNR	» WDNR Eligible (Provides access to nature-based recreation) » Consider developing as part of a "healthy living" internal trail loop to leverage funding from regional health care providers		
Phase 3	Local funding	TAP; WDNR	» Good TAP potential (connection to large residential areas) » Potential WDNR funding (provides access to nature-based recreation)		
Other	There may be an opportunity to use other funding sources which could offset trail related costs (for example, grading). Stream is a priority navigable waterway because it is considered an area of special natural resource interest. Therefore, stormwater quality improvements may be eligible for funding through WDNR Urban Non-Point Source Stormwater Management Grant.				

 $^{{\}rm *Opinions}\ are\ in\ 2016\ dollars\ based\ upon\ recent\ trail\ projects\ in\ the\ vicinity\ of\ the\ project\ location$

^{*}Construction includes: Clearing & Grubbing, Curb Removal, Common Excavation, EBS, Borrow, Base Aggregate Dense (1-1/4"), Asphaltic Surface, Concrete Sidewalk 6-inch (at take off and end points), Detectable Warning Fields, Culvert Pipe & Apron Endwalls, Pedestrian Bridge, Lighting, Signage, Restoration, Erosion Control, Mobilizaton, and Stormwater Management

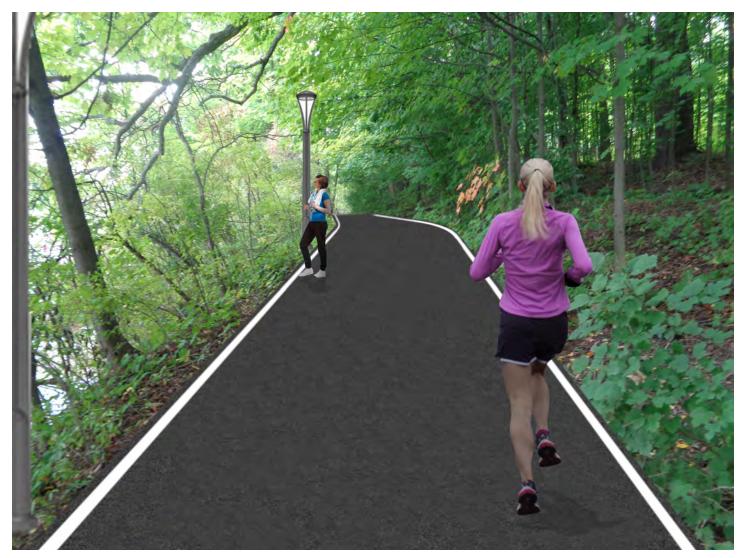
Peabody Park / Fox River Trail

The Peabody Park trail is a 2,800-foot bike and pedestrian path connecting Green Bay Road to Ballard Road. This trail follows alongside the riverfront and utilizes existing trail networks through both St. Joseph's cemetery and Riverside cemetery. The walkway is ADA compliant and provides access for both transportation and recreational users.



CHALLENGES

- » Utilities: Shallow stormwater outlets along the alignment will need to be considered in setting vertical profile.
- » Property Ownership:
 - » The first 1,900-feet of the trail alignment is placed on City of Appleton property. The latter part of the trail is connected through the Riverview and St. Joe's cemeteries which will require coordination and an easement.
 - » Along this portion of the trail, St. Joe's has requested that "Stations of the Cross" structures remain untouched and undisturbed.
 - » Parcel 311117712 is under private ownership and is located immediately adjacent to the west trail limit. While the trail is not infringing on this property, coordination with this property owner should be considered. Note: Property is currently for sale.
- » Slopes: Upon entering the cemetery property, the lower trail route extending to the Fox River Environmental Education Alliance was field reviewed (topography and slope challenges deemed this not a viable route). However, the recommended route also presents significant grade challenges as the trail enters the cemetery. These challenges were found to be less significant and can be addressed with a boardwalk.
- » Stormwater Management: Given the trail length and disturbances, Best Management Practices (BMP's) and stormwater facilities will need to be provided.
- » Other: This trail alignment offers excellent access to the riverfront. Field inspection revealed that constructing this trail will require some bank stabilization and implementation of retaining walls. A boardwalk has been proposed for a portion of the trail in the cemetery property, where existing slopes and grades would require a significant amount of earthwork.



 ${\it Photo simulation showing trail along the Fox \it River.}$

PERMITTING STRATEGY

The following list of agencies will need to be engaged throughout the design and permitting phases:

- » Cemetary Real Estate
- » Wisconsin Department of Natural Resources (WDNR)

IMPLEMENTATION TIMELINE

YEAR	1	2	3	4	Į.	5
DESIGN	36 months					
AGENCY COORDINATION + PERMITTING*	48 months					
CONSTRUCTION					5	

^{*}Does not include time for hazmat remediation

OPINION OF PROBABLE COSTS

Design Total	\$238,000
Design Engineering	\$238,000
Construction Total	\$2,183,000
Construction (with Contingency)*	\$1,985,000
Construction Oversight	\$198,000
Project Total	\$2,421,000

 $[*]Does\ not\ include\ real\ estate\ acquisition\ or\ hazardous\ remediation\ costs$

FUNDING

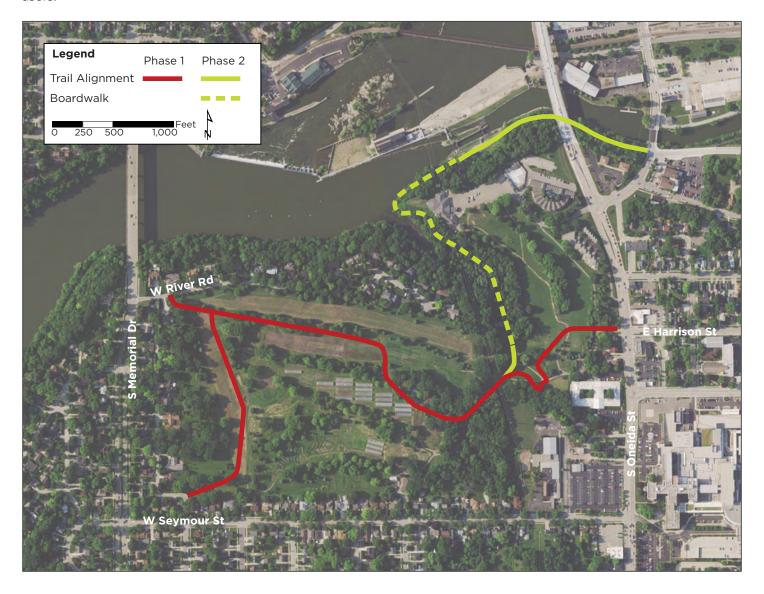
POTENTIAL MATCHING	MAJOR FUNDING	CRITERIA & REQUIREMENTS
Local funding	WDNR	» Not a good fit for TAP (federally funded projects on utility ROW are challenging; presence of cemeteries. If trail phased in TAP funding may be appropriate for portion of segment)

 $^{^*}Opinions\ are\ in\ 2016\ dollars\ based\ upon\ recent\ trail\ projects\ in\ the\ vicinity\ of\ the\ project\ location$

^{*}Construction includes: Clearing & Grubbing, Curb Removal, Common Excavation, EBS, Borrow, Base Aggregate Dense (1-1/4"), Asphaltic Surface, Concrete Sidewalk 6-inch (at take off and end points), Detectable Warning Fields, Culvert Pipe & Apron Endwalls, Boardwalk, Lighting, Signage, Restoration, Erosion Control, Mobilizaton, and Stormwater Management

Riverview Gardens

The Riverview Gardens access trail is a 6,900-foot bike and pedestrian path connecting Olde Oneida Street to Riverview Road and Riverview Lane. Primary features of this trail include a 1,450-foot elevated boardwalk which connects the Lock Keeper's house and Riverview Gardens. The trail will provide traversable horizontal curves and alignment to accommodate both pedestrians and bicyclists around the point at Riverview Gardens. The walkway allows more vegetation to remain providing a scenic trail with a minimal footprint. Once in Riverview Gardens, the trail follows existing golf cart paths and follows former fairways until tying into existing roadways. This trail provides access for both transportation and recreational users.



CHALLENGES

- » Utilities: Existing water line from pump house appears abandoned but will need to be taken into account when setting final alignment and profile.
- » Property Ownership: Easements will be required from Riverview Gardens for the majority of the trail length. Riverview Gardens is aware of the project and is supportive of the project. Easements will also be required from Fox River Navigational System Authority (FRNSA). FRNSA is also aware of the project and is supportive.
- » Slopes: Slopes between the Lock Keeper's house and connection to the current cart path will present challenges in providing a trail with adequate clear zone while maintaining existing vegetation and buffer to waterway. These slopes also present challenges in providing ADA compliant grades for pedestrian use. The location of this trail adjacent to the waterway on a constant slope to the water feature will make stormwater treatment and compliance a challenge with this portion of the trail. The proposed alignment could include an elevated boardwalk to address these concerns. Benefits of an elevated boardwalk include minimized impact to existing vegetation, maintenance of current drainage, and reduced stormwater impacts. An alternate would require extensive grading of the hillslopes and construction of retaining walls and removal of significant vegetation along the slope. The slope following the existing cart path up to the existing greenhouses also presents challenges for ADA compliance and will require significant portions of fill to satisfy pedestrian quidelines for longitudinal slope.
- » Stormwater Management: Given the trail length and disturbances, Best Management Practices (BMP's) and stormwater facilities will need to be provided.
- » Hydric soils are present a wetland delineation will be required. The presence of hydric soils across over significant portions of the project site will present challenges in siting stormwater management facilities and BMP's.
- » Cultural Resources: Pump House and boat anchor near Lock Keeper House.





Above: Photo simulation showing boardwalk along creek leading up to Riverview Gardens. Left: Photo simulation of trail along locks.

PERMITTING STRATEGY

The following list of agencies will need to be engaged throughout the design and permitting process:

- » USACE
- » FRNSA

IMPLEMENTATION TIMELINE: PHASE I

YEAR	1	2		3	
DESIGN	18 mont	hs			
AGENCY COORDINATION + PERMITTING*	27 months				
CONSTRUCTION				4	

IMPLEMENTATION TIMELINE: PHASE II

YEAR	1 2		3	4	5	6
DESIGN	36 months					
AGENCY COORDINATION + PERMITTING*	60 months					
CONSTRUCTION						6

^{*}Does not include time for hazmat remediation

OPINION OF PROBABLE COSTS

	PHASE I	PHASE II
Design Total	\$118,000	\$432,000
Design Engineering	\$118,000	\$432,000
Construction Total	\$1,080,000	\$3,961,000
Construction (with Contingency)*	\$982,000	\$3,601,000
Construction Oversight	\$98,000	\$360,000
Project Total	\$1,198,000	\$4,393,000

^{*}Does not include real estate acquisition or hazardous remediation costs *Opinions are in 2016 dollars based upon recent trail projects in the vicinity of the project location

FUNDING

PHASE	POTENTIAL MATCHING	MAJOR FUNDING	CRITERIA & REQUIREMENTS		
Phase 1	Local funding (Consider making special request to Community Foundation)	TAP; TEA	 » TAP eligible (connects to streets on both ends; provides safe alternative route for east-west connection) » May be TEA eligible. Consider developing trail as "job creation/retention" project to provide low-income job seekers to job training facilities 		
Phase 2	Local funding	WDNR; NRDA	» Consider developing trail to "provide public boating and fishing access" to Fox River.		
Other	 » TEA typically funds mfgrelated projects, however some ag-related projects have been funded » Water access would align with WDNR funding priorities. Several WDNR Knowles-Stewardship Programs may apply » May be good candidate for Outdoor Legacy Partnership Program by benefitting economically disadvantaged populations and providing access to outdoor recreational opportunities » May be good candidate for WE Energies Economic Health Foundation Grant 				

^{*}Construction includes: Clearing & Grubbing, Curb Removal, Common Excavation, EBS, Borrow, Base Aggregate Dense (1-1/4"), Asphaltic Surface, Concrete Sidewalk 6-inch (at take off and end points), Detectable Warning Fields, Culvert Pipe & Apron Endwalls, Boardwalk, Lighting, Signage, Restoration, Erosion Control, Mobilizaton, and Stormwater Management

WE Energies Trail

The WE Energies trail is a 10,415-foot bike and pedestrian path connecting Oneida Street to Eisenhower Drive. The trail follows an old rail corridor connecting to local bike and pedestrian accommodations around Horizons Elementary School. Bike and pedestrian upgrades will be made at the intersection of Lake Park Road and Schaefer Circle to safely transition users. The trail continues from Lake Park Road and connects at Eisenhower Drive. The walkway is ADA compliant and provides access for both transportation and recreational users.

PHASE I (WEST)

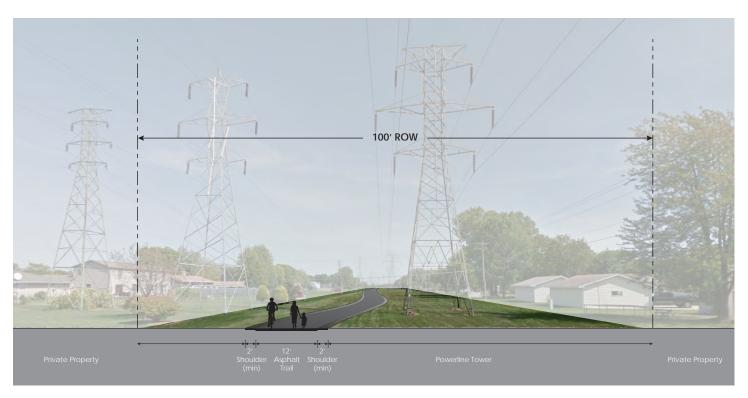


PHASE II (EAST)



CHALLENGES

- » Utilities: Existing ATC and WE Energies transmission and power poles run along the corridor of this trail. Coordination with these stakeholders has been established and they are supportive of the project. Easements will be required for WE Energies West (Wheatfield Drive to Schaefer Street). Modifications to existing easements will be required for WE Energies East (Lake Park Road to Eisenhower Drive).
- » Property Ownership: ATC has requested a 20' offset from their facilities. Along the corridor, there are locations at which we cannot satisfy the ATC offset and remain outside resident property lines. Ongoing communication with ATC to negotiate offset requirement.
- » Slopes: No concerns at this time.
- » Stormwater Management: Given the trail length and disturbances, Best Management Practices (BMP's) and stormwater facilities will need to be provided.
- » This trail will not be lighted, per ATC and WE Energies request. This trail will need to be constructed to accommodate utility trucks and is currently modeled with a more robust section.
- » Connection to the west at Oneida Street and Roeland Avenue will require coordination with WisDOT, who is currently designing this intersection. At the southeast corner of this intersection is an ATC substation. To the north of this substation is a 6.5 foot terrace and 5 foot sidewalk any bike and pedestrian accommodations would have to be placed in this area.
- » The connection between Schaefer Street and the Schaefer Circle connection will consist of on-street bicycle accommodations and use of existing sidewalks for pedestrians.
- » A trail connection will be established at the East end of Schaefer Circle. A 10-foot curb cut will be placed and this portion of the trail will merge into the existing sidewalk. The existing sidewalk will be widened to 10-foot bike and pedestrian accommodation.
- » The round-a-bout at Plank Road and Lake Park road will connect WE Energies West to WE Energies East. Bike and pedestrian accommodations will extend from the southeast leg of the roundabout to the WE Energies East trail. Trail alignment will need to be adjusted around existing utility facilities
- » WE Energies West will connect at Eisenhower Drive as part of the City of Appleton 2017 design utilizing design best practice.





 $Above: Section\ showing\ relationship\ of\ trail\\ to\ powerline\ towers\ and\ adjacent\ properties.$

PERMITTING STRATEGY

The following list of agencies will need to be engaged throughout the design and permitting process:

- » Utilities with facilities along corridor
- » Real Estate

IMPLEMENTATION TIMELINE: PHASE I (WEST)

YEAR	1	2	2	3		4
DESIGN	18 months					
AGENCY COORDINATION + PERMITTING*	36 months					
CONSTRUCTION					3	

IMPLEMENTATION TIMELINE: PHASE II (EAST)

YEAR	1	2	2	3	3
DESIGN	18 months				
AGENCY COORDINATION + PERMITTING*	27 months				
CONSTRUCTION				3	·

 $[*]Does\ not\ include\ time\ for\ hazmat\ remediation$

OPINION OF PROBABLE COSTS

	PHASE I (WEST)	PHASE II (EAST)
Design Total	\$91,000	\$63,000
Design Engineering	\$91,000	\$63,000
Construction Total	\$669,000	\$464,000
Construction (with Contingency)*	\$608,000	\$422,000
Construction Oversight	\$61,000	\$42,000
Project Total	\$760,000	\$527,000

 $^{{\}tt *Does\ not\ include\ real\ estate\ acquisition\ or\ hazardous\ remediation\ costs}$

FUNDING

PHASE	POTENTIAL MATCHING	MAJOR FUNDING	CRITERIA & REQUIREMENTS
Phase 1	Local funding; WE Energies Foundation Grant	WDNR	» Currently not a good fit for TAP (federally funded projects on utility ROW are challenging. Monitor for future applicability as WisDOT is working on this issue)
Phase 2	SAA	SAA	» SAA

 $^{^*}Opinions\ are\ in\ 2016\ dollars\ based\ upon\ recent\ trail\ projects\ in\ the\ vicinity\ of\ the\ project\ location$

^{*}Construction includes: Clearing & Grubbing, Curb Removal, Common Excavation, EBS, Borrow, Base Aggregate Dense (1-1/4"), Asphaltic Surface, Concrete Sidewalk 6-inch (at take off and end points), Detectable Warning Fields, Culvert Pipe & Apron Endwalls, Signage, Restoration, Erosion Control, Mobilizaton, and Stormwater Management



IMPLEMENTATION

Implementation of the proposed trail network will require consideration of several factors when determining the order of projects. All proposed projects were prioritized based on a lower to higher priority scale, providing initial guidelines for project consideration.

Other factors that should be considered include overlap between trail projects and other ongoing efforts, funding opportunities, total project cost and regulatory challenges.

This section provides an overview of local, state and national funding options, a summary of cost assumptions and planning level opinions of probable cost for each project identified through the Master Planning process and a summary of cost and proposed schedule for maintenance activities.

Finally, a series of recommendations are provided that will enhance the growing trail network in Appleton and will encourage integration with the on-street network.

Funding Opportunities

Opportunities for funding the proposed network are available at the local, state, and federal levels. The opportunities noted include a range of options, from competitive technical grants to smaller awards with significant trail focus.

The City of Appleton should seek creative opportunities for funding and consider project need, type, and timeline when determining potential sources for funding. Opportunities for completing multiple projects concurrently may provide additional pathways for implementation, and partnerships with neighboring jurisdictions may create stronger applications. It is highly recommended that the City strengthen or initiate partnerships with agencies administering relevant grants in order to better understand the application requirements and specific considerations for each opportunity.

Appendix 3 provides a detailed matrix of potential funding sources, including general availability and relevance to the proposed network.





 $Pursuing funding opportunities will support upgrading \ existing \ Appleton \ trails \ , including \ developing \ more \ visible \ crossing, as \ well \ as \ implementing \ new \ trail \ connections.$

Recommendations

The following recommendations address a variety of elements that will enhance the overall utility of Appleton's expanding active transportation network. These elements include safety improvements, network legibility, and integration with the on-street network. Drawn from best practices, public input, and the trail audit completed as part of the Trails Master Plan, these improvements can improve the overall quality of the growing trail network.

CONNECTIVITY: SEAMLESS TRANSITIONS

The utility of the existing trail network is expanded when coupled with on-street bikeways and sidewalks. Use of on-street facilities is often required for destination access. Improving connections to on-street facilities will increase the range of destinations that can be reached. Providing for seamless transitions between trails and on-street facilities encourages use of the facilities as one comprehensive network. These transitions can be enhanced through clear delineation of facilities, such as establishing clear trail entry points, reduction of barriers to trail or bike lane access, informative signing that brands the entire network and provides wayfinding, and provision of clear connections among the facilities. Greater network connectivity can also be achieved through providing bicycle and pedestrian connections at street ends.





An example of a recent project that provides a seamless transition from the trail on College Avenue Bridge to the signed route on Catherine Street.

CONNECTIVITY: NEIGHBORHOOD CONNECTIONS

Trails and on-street facilities provide access to a variety of destinations, including homes and other neighborhood-scale points of interest, such as parks and schools. Often neighborhood streets provide low-stress facilities that can also serve as connections between other facilities. Existing routes through neighborhoods should be inventoried to better assess existing network connectivity; further analysis should be completed to identify low-stress routes that can fill network gaps in these areas. Low traffic volumes and speeds, existing traffic calming infrastructure, and connections to destinations and the larger network should all be considered.

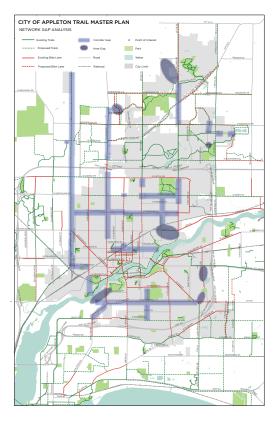
Establishing signed routes through neighborhoods can improve the utility of existing and future connections; signage will not only identify the route but also serve as wayfinding for bicyclists and pedestrians. Further, improvements to these vital links can further enhance the city-wide network and improve overall comfort of the network. Improvements can include surface quality, signage, and methods for reducing traffic volume and speed along these routes.



Speed and volume controls, including signs, pavement markings, and speed humps are used in this neighborhood bicycle boulevard in Portland, OR.

CONNECTIVITY: MISSING LINKS

The network gap analysis map, as included in the Existing Trail Network section and below, identifies missing links in the existing network that limit the connectivity of the existing network. Gaps in the existing network result in disconnected facilities that may require bicyclists or pedestrians to travel on a high stress roadway for at least a portion of their trip. In some locations, an entire area may not have direct access to any facilities. The existing trail network provides low-stress segments that accommodate users of all ages and abilities; however, without connections across the network, the all-ages and abilities capacity is limited to small segments and result in a network accessible to only the strong and confident cyclists. The gap analysis should be used to further analyze where the most significant improvements in network connectivity can be achieved. For example, some location may require a relatively short extension of an existing facility or improved crossing to connect larger portions of the existing network. These small wins can significantly improve network utility for residents.

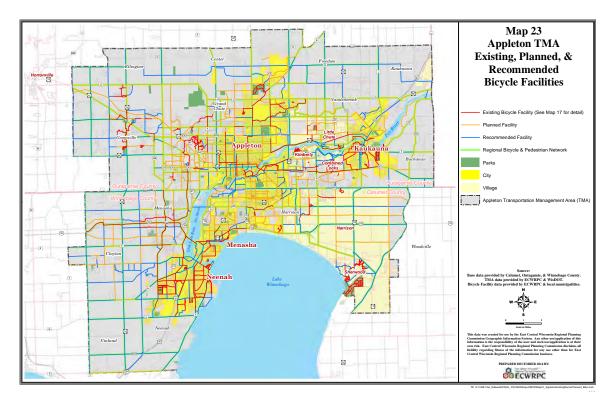




Existing gaps in Appleton's walking and bicycling network (explored further on page 29, represent areas of limited connectivity. Discontinuous facilities, as seen in the image on the right, force bicyclists into the roadway and can discourage walking in the area.

CONNECTIVITY: REGIONAL NETWORK

The growing network across the Fox Cities and extensive planned network outlined in the Fox Cities TMA/Oskosh MPO Bicycle and Pedestrian Plan provides residents with opportunities to connect to regional destinations, such as recreation or employment opportunities. As the network continues to grow throughout Appleton, facility development should aim to connect to trails, bike lanes, and sidewalks located in adjacent municipalities. Coordination among municipalities can better facilitate implementation in a cohesive manner that benefits residents and creates a connected network. Project coordination may also be used to leverage funding opportunities across the region.

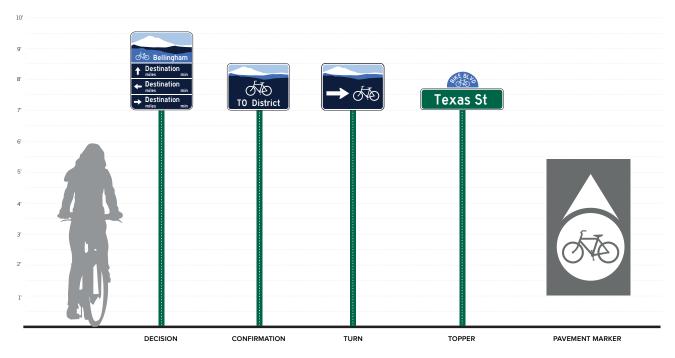


The proposed bicycle network across the Fox Cities, as outlined in the 2014 MPO Master Plan, aims to provide connections among municipalities and to major destinations. The Appleton Trails Master Plan builds on the facilities noted here, as well as developments that have occurred since, to provide a more connected trail network for Appleton residents.

SYSTEM-WIDE WAYFINDING

A comprehensive wayfinding system provides recognizable branding for the entire network while also increasing the utility of the system for all users. Current signage does not meet the needs of trail users in Appleton, as survey respondents frequently noted the need for more information regarding trails.

Clear signage helps users identify routes to their destinations while also providing information regarding bicycle-friendly facilities. Trail-specific wayfinding includes kiosks located at major entry points and trail heads provide additional information, including a system map. Similar branding, including colors, fonts, and symbols can be translated to on-street signs in order to create a city-wide system that encourages use of all facility types as one network. In order to be eligible for Federal funding options, wayfinding signage must be compliant with the Manual on Uniform Traffic Control Devices (MUTCD). MUTCD guidance defines uniform size, shape, color, and legibility of signs and messages included. However, the MUTCD also provides for inclusion of community identity and display of additional information through Community Wayfinding provisions.



The wayfinding sign family for Bellingham, Washington features Mount Baker, a distinctive feature in the area's landscape, to clearly define and brand the bicycle network. Sign toppers and pavement markers are more subtle options for defining greenways and other network links.

LIGHTING + SAFETY

Appleton's trails are important connections for pedestrians and bicyclists locally, as well as regionally for both utilitarian and recreation trips. The trail audit conducted during this project revealed that lighting is limited along some existing trails, and survey responses also indicated that residents are concerned with safety--and in particular, lighting--along new and existing trails. While the quantity of lighting is important, the provision of quality lighting is necessary to improve safety.

There are several benefits to including lighting to trail projects:

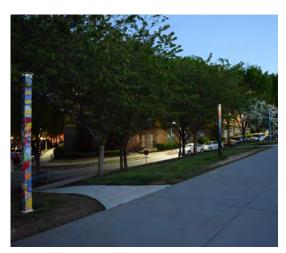
- » help pedestrians and bicyclists to safely navigate trails
- » provide visibility and security at all hours

Lighting should be of adequate brightness, providing enough visibility to identify a face up to 20 yards away. Lighting should provide uniform coverage and good color rendition. The use of metal halide or light emitting diode (LED) lamps are recommended. Average horizontal illumination levels are 0.5 to 2 foot candles or 5 to 22 lux¹. Trail lighting should be at a pedestrian scale, but avoid light fixtures mounted at eye level that could impair visibility. Pedestrian scale lighting is typically about 15 feet tall, has lower levels of illumination, and closer spacing to avoid dark zones between lights. Fixture choice can also serve to unify the trail system.

Residents also noted that call boxes or other security devices would improve the perception of safety on trails. However, call boxes are not recommended for installation. In many communities, call boxes are removed as cell phones approach universal usage. Maintaining call boxes is no longer cost effective, and ones that do remain are often subject to vandalism or prank calls. Call boxes are only recommended in locations with limited cell reception.



Pedestrian scale lighting could include bollards with lights along the trail.



 $Pedestrian\ scale\ lighting\ along\ the\ Atlanta\ Beltline.$

90

PEDESTRIAN AND BICYCLE CROSSINGS

Clearly marked crossings with roadways can improve network connectivity and safety. While trails represent all ages and abilities facilities, the low-stress nature of trails can be quickly diminished at difficult, unsafe roadway crossings. The Access + Intersections chapter of the Trail Design Best Practices report (Appendix 4) provides greater detail for crossing options for both signalized and unsignalized intersections. Additional features, such as median refuge islands, can also improve the quality of crossing for wide intersections.

High quality crossings can employ features like clear signage, high visibility crosswalk markings, bulb outs to reduce crossing distance, rectangular rapid flashing beacons (RRFBs), or raised crosswalks to improve visibility. In addition to these items that improve safety and comfort for bicyclists and pedestrians, features such as detectable warning strips, pavement markings, and change in trail alignment can provide warnings to trail users to be mindful of the approaching intersection.

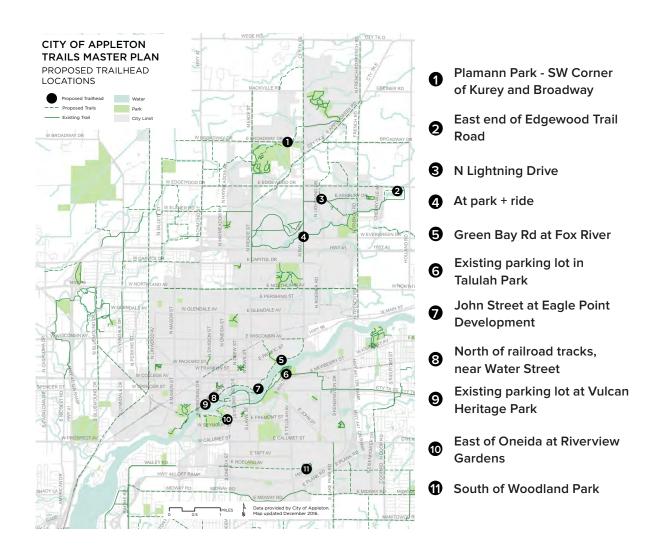


This raised crosswalk on the Burke Gilman Trail in Seattle, WA includes features such as clear signage, detectable warning strips, and pavement markings to provide warning to trail users and vehicles that they are approaching an intersection.

TRAILHEADS

Trailheads should be established at major access points along the trail network. Trailheads can include amenities such as parking (automobile and bicycle), comfort stations, drinking fountains, trash receptacles, bicycle repair stations, a location to change clothes, seating, wayfinding, and other informational signage. Information at trail heads can help orient a user to the larger network, including key connections to the on-street network and nearby destinations.

Survey responses indicated that many individuals were unaware of trail names and locations and were interested in learning more about the network. Clear designation of trails at popular access points can help increase public awareness of the growing system. Below is a map of potential trailhead locations identified during the course of this project. Further work should be done to assess the suitability and need for these and other locations.



END OF TRIP FACILITIES + AMENITIES

During the public involvement sessions, participants commented that they would like to use trails and an expanded bicycle network for utilitarian trips and to access destinations such as recreational facilities. Provision of end of trip facilities at destinations throughout the trail network can help encourage these trips.

End-of-trip facilities include bicycle parking options as well as amenities like those identified in the trail heads recommendation. Benches, comfort stations, bike repair stations, a location to change clothes, and similar features can enhance the overall network. Bike parking should include options for both short-term and long-term parking, in addition to climate-sensitive considerations. Parking located under shelters or other covered facilities can accommodate riders through most seasons. In general, all parking options should support the bicycle in at least two places, preventing it from falling over. Parking should also allow for the use of a U-lock across the frame and at least one wheel. Racks should be securely installed and placed within close proximity to trail access points, ideally in conjunction with trail heads or other destinations, such as parks, recreation facilities, transit stops, or schools. APBP's *Essentials of Bike Parking* is available online and provides detail on selecting and installing bicycle parking. The Trail Design Best Practices Report (Appendix 4) addresses end-of-trip facilities in greater detail.



Covered bicycle parking provides protection from inclement weather for short term parking. A bike repair station is also located under the shelter in the example to the left.



A bike repair station in Bellingham, WA includes bike repair manuals, bicycle parking (not pictured), and bike route maps and information.



Staple racks provide secure parking options for bicycles, accommodating 2 points of contact and a U-Lock. See Appendix 6 for more detail on parking selection.

MAINTENANCE

Routine trail maintenance can prolong the life of surface materials, increase the usability of the trail, and encourage greater use of the trail across all seasons. Throughout the public engagement process, overgrown vegetation, snow clearing, and surface maintenance were frequently noted as suggestions for improvement of the trail system. Cracks and similar surface issues were the most frequently observed items during the trail audit, and several locations were observed with decreased sightlines and operating space due to overgrown vegetation. Obstructions and poor surface quality can deter use of the existing network.

It is recommended that a routine maintenance schedule is developed and tracked, building from the audit data provided as part of this report. Maintenance of trail amenities, such as lighting, should also be considered.



 $In adequate\ drainage\ not\ only\ impacts\ the\ quality\ of\ the\ trail\ and\ reduces\ the\ lifespan\ of\ surface\ materials,\ it\ also\ creates\ an\ obstruction\ to\ trail\ use.\ Routine\ maintenance\ can\ help\ address\ these\ issues\ and\ provide\ for\ a\ more\ usable\ network.$

TRAIL COUNTS + USER SURVEYS

Trail count programs provide a means for assessing use of existing facilities while also allowing for assessment of benefits associated with trail development. As identified in the Fox Cities MPO Master Plan, a state-wide count program and methodology does not exist at this time for Wisconsin. Various jurisdictions within the Fox Cities TMA and Oshkosh MPO have conducted bicycle and pedestrian counts on trails but without consistent methodology among locations.

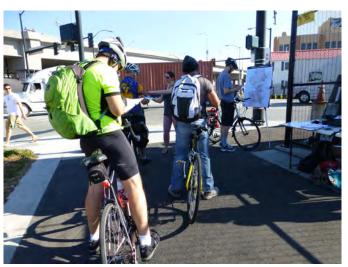
It is recommended that Appleton develop a trail count program to better assess demand for trails over time and across seasons. The count program should employ methods that are repeatable across the jurisdiction and, given the nature of Appleton's network, are appropriate for both on and off-street facilities. A growing range of methods and devices provide options of varying cost, duration, and reliability. If less permanent options are selected, a strict methodology regarding location, duration, and frequency should be developed in order to provide for data that can be compared over time. See Appendix 5 for further detail about current options in counting technology.

Implementation of counting hardware may provide more reliable usage data and better capture use over time as opposed to manual count methods. However, manual count methods can provide several benefits including: a method for engaging community advocates, a method for assessing placement of automated devices, and an opportunity to gather additional feedback on existing trails.

Appleton can gather input from trail users about the network through user surveys. Surveys can cover a range of topics, including purpose of trip, frequency of use, assessment of trail quality, and travel to and from the trail. By intercepting residents on the trails, the city can capture feedback from those using the facility.



A bike counter on the Second Avenue cycle track in Seattle, WA provides real-time display of the number of bicyclists per day and year-to-date.



Conducting intercept surveys on trails and other high-use corridors provides the opportunity to gather feedback from those who use the trails and help the city better understand why people use trails and what can be improved.

EDUCATION, ENCOURAGEMENT, + ENFORCEMENT PROGRAMS

Investment in active transportation infrastructure is further enhanced through the education, encouragement, and enforcement of appropriate facility use. Programs can range from community workshops and individualized marketing campaigns to Safe Routes to School and safety marketing campaigns. Education and encouragement programs help connect residents with the tools they need to learn about the facilities available to them, to gain the skills required to safely utilize the network, and to pursue a more active, sustainable lifestyle. Programs can partner with schools, employers, and other community organizations to reach a wide audience and better understand the needs of various user groups.

The Bicycle Friendly Community (BFC) report card, issued by the League of American Bicyclists in Spring 2013, identifies that bicycling education programs are not offered in middle or high schools in Appleton and are offered in only 1-25% of elementary schools. This is one example of how the city can improve the presence and knowledge of bicycling in the city, while also improving the BFC ranking.

Further, enforcement programs reinforce appropriate behavior and improve personal safety on the trails and across the city. Few opportunities exist to provide additional education to all modes, and programs such as traffic citation diversion courses can be one method for all modes to learn the legal rights and responsibilities when walking, bicycling, and driving. Programs can target all modes, and in partnership with the police department, can aim to curb behavior specifically known to endanger bicyclists and pedestrians. Enforcement can also include programs such as a volunteer trail steward program, where groups of volunteers bicycle along the trail network to enhance safety through additional observation as well as can answer questions regarding the network.



Encouragement and safety programs, such as the program highlighted above in Pasadena, provide communities with information about the area's bicycle, pedestrian, and transit networks. Programs provide specific information about how to use the area's active transportation networks.



The Scott Get Up & Ride program encourage Kimberly Clark employees to commute by bike at 62 sites around the world. In Neenah, WI discounts at local bike shops, secure parking, education programs, and cash incentives encourage employees to bike to work.

 $¹ http://www.sustainabilityreport2010.kimberly-clark. \\ com/people/involving-employees-in-sustainability.asp$

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PUBLIC INVOLVEMENT SUPPLEMENTAL COMMENTS

March 2016: City of Appleton Comprehensive Plan Issues and Opportunities Workshops

ACTIVITY 1: A FULL LIST OF COMMENTS RELATING TO TRAILS

- » Lighted safe trails
- » Complete connectivity of trails and bike lanes
- » Downtown bridges to the river with lovely views and trails
- » More creative use of large Riverview Gardens land, designated trails...
- » Need to plow our paved trails all year
- » Trails that are connected using roads with high traffic
- » Promote riverfront...as a neat nature area for trails (comment shortened)
- » River trails
- » Trails, stairs, docks, access to river at key waterfront locations
- » Parks and trails with public access along the river, connecting to downtown and the neighborhoods
- » More connecting trails to parks
- » Pedestrian bridge over the Fox River to connect trails
- » More walking/biking trails that are family friendly
- » Singletrack, ski, bike, hiking trails

ACTIVITY 2: A FULL LIST OF COMMENTS RELATING TO TRAILS

- » Trails, stairs, docks; river view gardens; great property with water front location; feels under utilized
- » Parks and trails with public access along river (which connects to downtown and neighborhoods)
- » Trail connection from old formost property along river past Peabody, Riverside Cemetery to Wisconsin Ave.
- » Mountain biking trail Pierce Park
- » More walking/biking trails that are family friendly where (kids) can bike safely on (not on roads) and bathrooms
- » Single track, ski, bike, hike trails
- » Creative mountain biking trail
- » Connect Wisconsin Ave. and College Ave. with quiet, walkable and bikable trail/path

May 2016 City of Appleton Comprehensive Plan Downtown and Trails Design Workshop

ACCESS AND CONNECTIVITY TO THE RIVER

- » Connect riverfront trails, better signage and connections (3)
- » Love idea for boardwalks (3)
- » Love the concept for Jones Park, additional ramp access and bikes (2)
- » Like the concepts and ability to link Oneida Street to the river (2)
- » Walking bridge connecting East John St to other side of river.
- » There is no bike access to river between State and Drew.

WALKABILITY

- » Lots of good ideas (3)
- » Keep in mind most people will only walk ½ the time in this climate.
- » Slow traffic and/or provide barrier to walkers and bicyclists on Oneida Street bridge.
- » Love walkability ideas and bike lanes.
- » Need to emphasize trails for both pedestrians and bikers.
- » Is essential to future growth and accessibility.

STREETSCAPE

- » Build bike infrastructure and bikes will come. Seeing big increases in biking every year as trail network expands.
- » More plants, sidewalk cafes, bicycle parking.

City of Appleton Comprehensive Plan Survey

As part of the City's Comprehensive Plan Update, an on-line survey was launched over the period May 4th to June 6th. A total of 1,098 participants responded to the survey, including 940 completed surveys and 158 partially completed surveys. Trails related comments from the survey are summarized below:

NEIGHBORHOOD PERCEPTION

- » 87.8% of respondents agreed or strongly agreed with the statement "My neighborhood is walkable"
- » 69.9% of respondents agreed or strongly agreed with the statement "My neighborhood is bike friendly"

NEIGHBORHOOD - OPEN ENDED COMMENTS

The survey included several open-ended comments including "In your own words please share any additional comments related to your neighborhood." Of the 179 responses the second most frequent response had to do with bike and pedestrian improvements (44 comments). Key themes and specific comments included:

- » 2 bike lanes on East Fremont deny on street parking on this street, served by city buses, as a major ambulance route to St. E's ,as a major fire truck, as a fast track east from Lawe st. Many still use sidewalks to bike..much safer.
- » A stop sign on Alton Street that slowed traffic going up or down that road would make the street safer for bikes and for the growing (once again) number of young children who live there. There is a stop sign on Rankin but as there is virtually no traffic on Rankin that sign is meaningless.
- » Area parks are nice. It would be nice to see less traffic. W Glendale Ave is a fairly busy street the closer you get to Mason St. I think this prevents a close knit community.
- » Broadway Drive is not safe. Vehicles travel too fast and most don't slow down for pedestrians. People use this road as a short cut and drive wayyyy too fast.
- » Busy street but quite neighborhood
- » Drivers on the busy road don't seem to understand rules for bike riding and how the bike lanes operate. Sometimes it can be scary taking small kids biking in a trailer for this reason.
- » Even with bike lanes would not feel safe riding in my neighborhood because of the high traffic volume.
- » Motorcycle traffic and loud motorcycles that the police do not enforce. Pit bulls , people walking in the middle of the street cursing. Drug deals on the corners.
- » My neighborhood is on a busy four lane highway. The other side of our block is a quiet residential area. We have a lot of walker's, runners, bicycles and vehicle traffic on a well maintained boulevard. Nice area.
- » Road is very busy. Cars go too fast down the street.
- » The city services like trash and leaf collection have always been timely and good. Midway Road traffic is increasing and may need addressing as far as safety and lighting.
- » There are busy streets and no suitable places to walk to even reach a "walkable" trail. I was spoiled after living in Minneapolis for a decade where bike lanes and beautiful trails are everywhere. It would be wonderful to have a similar environment here in Appleton.
- » Vehicles drive by too fast. Heavy foot traffic and bike traffic by Erb park
- » We need physical barriers between motorized traffic and bicyclists and pedestrians. Texting and hurried, intolerant drivers make cycling seem so much more risky than it once did. The Dutch offer a safer approach to cycling friendly infrastructure. I live near the CE trail, but getting there feels risky.
- » Bike paths for busy streets would make getting to the park easier. Prospect Ave is too busy to ride bikes with my kids, but the park is over 1 mile away.
- » I have easy walkable access to the west side of downtown; however, I would love to have bike access to the

shops and establishments on the east part of College Ave

- » I live in the McCarthy Creek apartment complex. It is as if we are on an island because there are no sidewalks, bike lanes, or pedestrian friendly roadways which allow for safe and easy access out of the triangle formed by Wisconsin Ave, Greenville Drive, and Mayflower Drive. I would love to be able to walk/bike to work (on Communication Dr < 1.5mi away), to the mall (also < 1.5mi away), and to the inside of the 41/441 circle.
- » I walk/bike frequently, although I do not feel particularly safe doing these activities on South Oneida (the bridge updates have helped, however).
- » I wish there were more sidewalks on Oneida, I live by 441, and anytime I want to walk anywhere on Oneida, I have to go on the grass, and the drivers don't pay attention to people crossing the street.
- » I would like to have sidewalks in the Seminole Drive neighborhood.
- » I would like to see the river public access point be more user friendly. Just a simple stepped or switchback path would make a world of difference
- » I would like the city to have a campaign to educate citizens about riding bikes like vehicles rather than pedestrians and educate people about walking safely by facing traffic where there are not sidewalks.
- » I would love to see a walking/biking path/trail and a playground close to my house. It would be nice to have somewhere safe to let my kids play and ride bikes. Our closest playground is Lions Park, and I'd love to have one closer!
- » would really like there to be more safe biking options available.
- » I wouldn't say it's bike unfriendly, but there are no designated biking lanes. There are no signs to yield for bikers, and in general biking is not well tolerated.
- » I'd love a better bike/walking lane on North Ballard (north of JJ). It could bring more people to Plamann Park. I also hope that as the area around JJ and North High is developed, leaders consider beauty and walking and don't just create another Darboy/east Calumet.
- » I've lived in many other states and Wisconsin has been the first one where we don't have a sidewalk for my kids to bike on or walk on
- » Impossible to walk to run basic errands. There is no grocery store, pharmacy, etc. within walking distance from my house. Problem is, if I were to move closer to any of these services I wouldn't be able to walk downtown, which is 90% of the reason I choose to live where I do. Walkability is the future, and Appleton needs to provide those essential daily services.
- » It would be great to have more ways to bike and/or walk safely within and between communities.
- » Keep making the city more bike friendly green bay is a great example
- » Lack of sidewalks, would like to have a more dog-friendly community (ex. dogs in parks, off-leash dog parks)
- » Live close to downtown and Lawrence. Walkable to the post office and library and the farmers market. Wish there was a grocery store close.
- » Need a sidewalk on French Road and intersection lights or another round about.

- » Need more bikes intersecting the ones that currently exist!
- » Neighborhood sidewalks not so great. Bus lines need to operate more frequently for people that need it (1 trip per hour is way too long)
- » No sidewalks in our neighboorhood by Janet Berry Elementary.
- » No sidewalks, so not very walkable.
- » Our neighborhood is easily accessible for bikes, however there is not any street parking because both sides are bike lanes without parking space. Having elderly grandparents and family over means they have to walk a block or two because of restricted driveway space.
- » Our neighborhood would be much safer for walking, biking, and children if we had sidewalks.
- » Our street is very narrow, especially in winter with plowing, which also makes it unsafe for biking.
- » Sidewalks would make our neighborhood so much safer for our kids. Especially to give them a safe route to our neighborhood park. Also it would be great to see a roundabout go in at Kennsington and Newberry.
- » The Fox Valley is still very non-bike friendly outside of the CE trail.
- » There are no sidewalks in our neighborhood so when walking with young children it is very hard. This is the same for bikes.
- » There are no sidewalks on many of our neighborhood streets. Shoulders are gravel and traffic is too fast to feel real safe while walking and biking.
- » Too many bike riders on the sidewalks in the Downtown....an accident if waiting to happen! Please at least consider signage on the pavement corners saying it is illegal and what the fine is!
- » Very accessible to school, playgrounds, AMC hospital, Fire Dept. Overall good service garbage pick-up, mail etc.
- » We have always loved the easy access to the elementary school, the Y, the library, small businesses, the parks, entertainment. As someone about to retire, and thinking about aging, the walkability is critical.
- » We have no sidewalks, you have to walk on the street when you do walk somewhere. I don't think my neighbors are very welcoming to anyone that looks different from the majority in this area. I don't really care about this b/c my purpose to live there is for my kids to have access to better schools.
- » We live in a neighborhood without sidewalks. I think sidewalks would add to walkability and to an increased friendliness among neighbors.
- » We live on N. Gillett Street and there are no sidewalks and the road is not big enough to walk or bike safely on the side of the road as people rarely move over if they are able and do not go 25 mph.
- » We need more bike lanes please! A lot of us commute to work using bicycles.
- » We're very near walking /biking trail, but because we have no date way to walk to it, we have to drive 1/2 mile to get to it too walk. It would be nice to connect or neighborhood to the others nearby
- » While my neighborhood is safe and bike friendly, I don't consider it walkable because there are no

destinations in walking distance. It may be fine to take a stroll in the neighborhood for exercise, but I'd rather live in a neighborhood where I can walk to stores, shops, etc.

- » Would like bike paths especially around popular destinations on college avenue
- » Would like biking paths around the south side. I feel riding my bike on the street isn't safe.
- » You can walk around in my neighborhood, but there isn't really anywhere to go. Would be nice if there were local spots to walk to where people hang out.
- » West college ave. is completely unwalkable/bikeable. I would like to see bike lane/path that links from the CB trail by the airport, all the way down college to the CE trail.

TRANSPORTATION PERCEPTIONS

- » 51% of respondents agreed or strongly agreed with the statement "More on-street bicycling lanes are needed"
- » 76% of respondents agreed or strongly agreed with the statement "More off-street bicycling and pedestrian trails are needed"

TRANSPORTATION - OPEN ENDED COMMENTS

The survey included several open-ended comments to the statement "In your own words please share any additional comments related to your transportation needs." 338 comments were received including 30 trail specific related comments. The key themes included:

- » Appleton has a nice selection of bicycle lanes and bike/pedestrian trails, and I would love to see this continue to grow.
- » Appleton needs more biking lanes and scenic trails walking trails that are well marked and known.
- » Better ways to get around via bike and/or walking trails would be amazing!
- » Bike trails are decent but the major downfall is they are not connected
- » Bike trails! We moved here from Eau Claire, WI and definitely miss the bike trails the most. We could get anywhere in EC on trails. It was very convenient and safer!
- » I feel that public transportation is much easier to use with a bicycle but we lack secure bike storage near the bus station, and we have a long way to go to complete trail systems integrated with public transportation that would allow people to use them in combination safely.
- » I like the concept of "complete streets" where all modes of transportation can safely transit. I love to walk on the trails along the river and wish there were more connections to get there.
- » I wish that the recreational trails near my home (off French Road) were accessible by sidewalk on BOTH sides of the street.
- » I would LOVE to see more dedicated bike paths and trails in Appleton. My family would definitely make frequent use of them.
- » I would like to see the city continue to expand bicycle and pedestrian related or focused lanes, trails and paths

that everyone can enjoy. As a bike commuter, I very much appreciate having a "dedicated" space for riding to work or to shop. As a parent of an elementary aged child however, I wish we would be far more aggressive in installing pedestrian friendly crossings like we see on College Ave on the Lawrence campus. If grown adults can enjoy the luxury of bright flashing lights warning drivers that they are crossing the street, why are school zones only equipped with one small light to alert drivers to the presence of elementary aged children? Our son has to navigate Freemont and S. Oneida street to get to and from school and both streets are increasingly difficult to cross and dangerous. Rather than making the Freemont/Oneida intersection safer

- » •I would love to see trails going around the whole fox city area I love walking and biking for fun and transportation what an awesome why to bring people together while they are out moving around town on bikes or foot
- » It would be nice to get more biking and walking trails put in throughout the city.
- » Keep expanding the off street bike trails! Please
- » More bike trails!!

HOPES FOR THE FUTURE OF APPLETON

Respondents were asked to list their top 3 hopes for the future of Appleton. 69 trail related comments were made. Key themes included:

- » More biking/walking trails
- » Bike trails along the fox
- » COMPLETE TRESTLE BRIDGE TRAILS
- » Connect trail systems in North Appleton to rest of Fox Cities
- » Connecting all sides of the city with trails
- » Exercise trails throughout downtown area
- » Improved Bike Trails
- » More bike lanes
- » More recreational trails
- » More trails throughout city
- » Mountain bike trails and jumps.
- » Bike trail from north Appleton to downtown
- » Create a riverwalk and bike trail system integrated throught the valley
- » Feeling safe on trails
- » Connected and expanding hiking/biking trails to neighboring citys
- » Connecting parks along the river with trails.

- » Continued trail connections and more access to them
- » Emphasis walking trails along the river
- » Maintaining parks and trails
- » More fitness trails for walking, jogging, or biking.
- » Trails/paths along the river (significant expansion of existing)
- » Additional off street trails
- » Clean up the walking trails on the Oneida St Trails-too much overgrowth prevents nice river ews. More walkable retail shops down by the river.
- » I hope to see more trails integrated throughout the greenspaces.
- » Improve quality of trails.
- » Increase/coordination of recreation trails
- » More connected trails along river
- » More green space trails.
- » More parks and trails on river
- » Mountain bike trails
- » Walking trail similar to high line in New York City make a fun trail thru flats in Appleton

NON-TAXABLE DEVELOPMENT

The survey asked respondents to list what types of non-taxable development they would like to see in Appleton. Over 400 responses referenced trails. Key themes included:

- » More biking and walking trails
- » Better trail connectivity
- » More trails along the river
- » Mountain biking trails needed

NEW ACTIVITIES, ATTRACTIONS, OR EVENTS

Participants were asked "what new activities, attractions, or events would you like to see downtown or along the river. 65 trails related comments were made. Key themes included:

- » Trails along the river
- » Better riverfront access including trails
- » Dog friendly trails

PARK AMENITIES AND TRAILS

Participants were asked "what specific park amenities or trails do you feel are needed (and where) within the City. 215 trails related comments were made. Key themes included:

- » More trails
- » Better connected trails, both within the City and with surrounding communities
- » Better accessibility
- » Well marked trails
- » Dog friendly trails
- » Trails along the river

UPGRADE PROJECT TABLES

Upgrade Projects: Drainage*

Location	Cross Street 1	Cross Street 2	Length (Feet)	# of Issues	Cost per Unit	Sub-total Drainage
Newberry Trail	S Lawe Street	S Olde Oneida Street	1928	0	\$8,500.00	\$0.00
Newberry Trail	East of S Lawe Street	S Lawe Street	1083	0	\$8,500.00	\$0.00
Newberry Trail	West of E College Ave	East of S Lawe Street	1276	1	\$8,500.00	\$8,500.00
North Island Trail	S Lawe St	S Olde Oneida St	2005	4	\$8,500.00	\$34,000.00
Newberry Trail	E College Ave	West of E College Ave	890	0	\$8,500.00	\$0.00
Newberry Trail	West of E Newberry St	West of E Newberry St	949	0	\$8,500.00	\$0.00
Newberry Trail	E Newberry St	West of E Newberry St	1949	0	\$8,500.00	\$0.00
Newberry Trail	E Newberry St	South of E Newberry St	929	0	\$8,500.00	\$0.00
Newberry Trail	W of S Kensington Dr	N of E College Ave	2473	2	\$8,500.00	\$17,000.00
Newberry Trail	S Kensington Dr	W of S Kensington Dr	955	0	\$8,500.00	\$0.00
Newberry Trail	Highway 441	S Kensington Dr	1136	0	\$8,500.00	\$0.00
Newberry Trail	Highway 441 Ramp	Highway 441 Ramp	268	0	\$8,500.00	\$0.00
Newberry Trail	Highway 441 Ramp	Highway 441 Ramp	85	0	\$8,500.00	\$0.00
Newberry Trail	Highway 441 Ramp	Highway 441 Ramp	245	0	\$8,500.00	\$0.00
Newberry Trail	West of S Railroad St	Highway 441	2043	0	\$8,500.00	\$0.00
Newberry Trail	S Railroad St	West of S Railroad St	2078	0	\$8,500.00	\$0.00
Newberry Trail	East of S Railroad St	S Railroad St	652	0	\$8,500.00	\$0.00
Apple Creek Trail	N Ballard Rd	N Meade St	6515	2	\$8,500.00	\$17,000.00
Apple Creek Trail	N Lightning Rd	N Ballard Rd	2412	2	\$8,500.00	\$17,000.00
Applecreek Trail	N French Rd	N Lightning Rd	4961	2	\$8,500.00	\$17,000.00
Highview Trail	N Meade St	West of N Meade St	2104	0	\$8,500.00	\$0.00
Highview Trail	N Meade St	West of N Meade St	1402	0	\$8,500.00	\$0.00
Applecreek Trail	Cherryvale Ave	N French Rd	3147	7	\$8,500.00	\$59,500.00
Apple Creek Trail	E Edgewood Dr	Cherryvale Ave	3698	3	\$8,500.00	\$25,500.00
Providence Trail	E Ashbury Dr	E of N Providence Ave	907	0	\$8,500.00	\$0.00
Providence Trail	E Ashbury Dr	E of N Providence Ave	463	0	\$8,500.00	\$0.00
Providence Trail	E Ashbury Dr	E of N Providence Ave	471	0	\$8,500.00	\$0.00
Providence Trail	E Ashbury Dr	E of N Providence Ave	743	1	\$8,500.00	\$8,500.00
				Drainage Subtotal		\$204,000.00

^{*} Drainage fixes assume installation of 16 LF of 12" culvert pipe with apron endwalls, 90 foot of trail removal and replacement. Cost estimated from project 4992-00-46 Contract Mod 4 for similar work.

Upgrade Projects: Crackfill

Location	Cross Street 1	Cross Street 2	Length (Feet)	Number of Issues	Feet/ Issue	**Crackfill	Cost Per Unit	Sub-total Crackfill
Newberry Trail	S Lawe Street	S Olde Oneida Street	1928	1	1928	Yes	\$50.00	\$50.00
Newberry Trail	East of S Lawe Street	S Lawe Street	1083	7	155	Yes	\$50.00	\$350.00
Newberry Trail	West of E College Ave	East of S Lawe Street	1276	45	28	No	\$50.00	\$0.00
North Island Trail	S Lawe St	S Olde Oneida St	2005	79	25	No	\$50.00	\$0.00
Newberry Trail	E College Ave	West of E College Ave	890	19	47	No	\$50.00	\$0.00
Newberry Trail	West of E Newberry St	West of E Newberry St	949	25	38	No	\$50.00	\$0.00
Newberry Trail	E Newberry St	West of E Newberry St	1949	134	15	No	\$50.00	\$0.00
Newberry Trail	E Newberry St	South of E Newberry St	929	48	19	No	\$50.00	\$0.00
Newberry Trail	West of S Kensington Dr	N of E College Ave	2473	113	22	No	\$50.00	\$0.00
Newberry Trail	S Kensington Dr	West of S Kensington Dr	955	58	16	No	\$50.00	\$0.00
Newberry Trail	Highway 441	S Kensington Dr	1136	43	26	No	\$50.00	\$0.00
Newberry Trail	Highway 441 Ramp	Highway 441 Ramp	268	0	NA	NA	\$50.00	\$0.00
Newberry Trail	Highway 441 Ramp	Highway 441 Ramp	85	0	NA	NA	\$50.00	\$0.00
Newberry Trail	Highway 441 Ramp	Highway 441 Ramp	245	0	NA	NA	\$50.00	\$0.00
Newberry Trail	West of S Railroad St	Highway 441	2043	0	NA	NA	\$50.00	\$0.00
Newberry Trail	S Railroad St	West of S Railroad St	2078	0	NA	NA	\$50.00	\$0.00
Newberry Trail	East of S Railroad St	S Railroad St	652	0	NA	NA	\$50.00	\$0.00
Apple Creek Trail	N Ballard Rd	N Meade St	6515	46	142	Yes	\$50.00	\$2,300.00
Apple Creek Trail	N Lightning Rd	N Ballard Rd	2412	39	62	No	\$50.00	\$0.00
Applecreek Trail	N French Rd	N Lightning Rd	4961	62	80	Yes	\$50.00	\$3,100.00
Highview Trail	N Meade St	West of N Meade St	2104	70	30	No	\$50.00	\$0.00
Highview Trail	N Meade St	West of N Meade St	1402	47	30	No	\$50.00	\$0.00
Applecreek Trail	Cherryvale Ave	N French Rd	3147	39	81	Yes	\$50.00	\$1,950.00
Apple Creek Trail	E Edgewood Dr	Cherryvale Ave	3698	29	128	Yes	\$50.00	\$1,450.00
Providence Trail	E Ashbury Dr	E of N Providence Ave	907	16	57	No	\$50.00	\$0.00
Providence Trail	E Ashbury Dr	E of N Providence Ave	463	0	NA	No	\$50.00	\$0.00
Providence Trail	E Ashbury Dr	E of N Providence Ave	471	5	94	Yes	\$50.00	\$250.00
Providence Trail	E Ashbury Dr	E of N Providence Ave	743	15	50	No	\$50.00	\$0.00
						Crackfil Subtotal		\$9,450.00

^{**} Price estimate based upon web averages including labor https://howmuch.net/costs/sealing-asphalt-crack-repair. Assumes Crack is full trail width. Assumes Let as part of a larger project.

Upgrade Projects: Pavement Replacement

Location	Cross Street 1	Cross Street 2	Length (Feet)	Pavement Replacement ***	Cost per Foot	Subtotal Pavement Replacement	Sub-Total Pavement Surface Repair Project
Newberry Trail	S Lawe Street	S Olde Oneida Street	1928	No	\$25.00	\$0.00	\$50.00
Newberry Trail	East of S Lawe Street	S Lawe Street	1083	No	\$25.00	\$0.00	\$350.00
Newberry Trail	West of E College Ave	East of S Lawe Street	1276	Yes	\$25.00	\$31,900.70	\$31,900.70
North Island Trail	S Lawe St	S Olde Oneida St	2005	Yes	\$25.00	\$50,114.99	\$50,114.99
Newberry Trail	E College Ave	West of E College Ave	890	Yes	\$25.00	\$22,241.34	\$22,241.34
Newberry Trail	West of E Newberry St	West of E Newberry St	949	Yes	\$25.00	\$23,720.80	\$23,720.80
Newberry Trail	E Newberry St	West of E Newberry St	1949	Yes	\$25.00	\$48,722.39	\$48,722.39
Newberry Trail	E Newberry St	South of E Newberry St	929	Yes	\$25.00	\$23,221.57	\$23,221.57
Newberry Trail	West of S Kensington Dr	N of E College Ave	2473	Yes	\$25.00	\$61,824.71	\$61,824.71
Newberry Trail	S Kensington Dr	West of S Kensington Dr	955	Yes	\$25.00	\$23,876.16	\$23,876.16
Newberry Trail	Highway 441	S Kensington Dr	1136	Yes	\$25.00	\$28,402.84	\$28,402.84
Newberry Trail	Highway 441 Ramp	Highway 441 Ramp	268	NA	\$25.00	\$0.00	\$0.00
Newberry Trail	Highway 441 Ramp	Highway 441 Ramp	85	NA	\$25.00	\$0.00	\$0.00
Newberry Trail	Highway 441 Ramp	Highway 441 Ramp	245	NA	\$25.00	\$0.00	\$0.00
Newberry Trail	West of S Railroad St	Highway 441	2043	NA	\$25.00	\$0.00	\$0.00
Newberry Trail	S Railroad St	West of S Railroad St	2078	NA	\$25.00	\$0.00	\$0.00
Newberry Trail	East of S Railroad St	S Railroad St	652	NA	\$25.00	\$0.00	\$0.00
Apple Creek Trail	N Ballard Rd	N Meade St	6515	No	\$25.00	\$0.00	\$2,300.00
Apple Creek Trail	N Lightning Rd	N Ballard Rd	2412	Yes	\$25.00	\$60,298.79	\$60,298.79
Applecreek Trail	N French Rd	N Lightning Rd	4961	No	\$25.00	\$0.00	\$3,100.00
Highview Trail	N Meade St	West of N Meade St	2104	Yes	\$25.00	\$52,607.81	\$52,607.81
Highview Trail	N Meade St	West of N Meade St	1402	Yes	\$25.00	\$35,041.78	\$35,041.78
Applecreek Trail	Cherryvale Ave	N French Rd	3147	No	\$25.00	\$0.00	\$1,950.00
Apple Creek Trail	E Edgewood Dr	Cherryvale Ave	3698	No	\$25.00	\$0.00	\$1,450.00
Providence Trail	E Ashbury Dr	E of N Providence Ave	907	Yes	\$25.00	\$22,672.72	\$22,672.72
Providence Trail	E Ashbury Dr	E of N Providence Ave	463	Yes	\$25.00	\$11,566.63	\$11,566.63
Providence Trail	E Ashbury Dr	E of N Providence Ave	471	No	\$25.00	\$0.00	\$250.00
Providence Trail	E Ashbury Dr	E of N Providence Ave	743	Yes	\$25.00	\$18,572.66	\$18,572.66
				Pavement Rep. Subtotal		\$514,785.88	\$524,235.88

 $^{***}Assumes pavement \ removal, \ and \ replacement \ as \ part \ of \ a \ larger \ project, \ and \ 25\% \ of \ the \ repair \ length \ requiring \ base \ replacement \ to \ typical \ section.$

Upgrade Projects: Crossings

Location	Cross Street 1	Cross Street 2	Length (Feet)	****Crossings	Cost per Unit4	Sub-total Crosswalks
Newberry Trail	S Lawe Street	S Olde Oneida Street	1928	0	\$1,520.00	\$0.00
Newberry Trail	East of S Lawe Street	S Lawe Street	1083	0	\$1,520.00	\$0.00
Newberry Trail	West of E College Ave	East of S Lawe Street	1276	2	\$1,520.00	\$3,040.00
North Island Trail	S Lawe St	S Olde Oneida St	2005	0	\$1,520.00	\$0.00
Newberry Trail	E College Ave	West of E College Ave	890	1	\$1,520.00	\$1,520.00
Newberry Trail	West of E Newberry St	West of E Newberry St	949	1	\$1,520.00	\$1,520.00
Newberry Trail	E Newberry St	West of E Newberry St	1949	4	\$1,520.00	\$6,080.00
Newberry Trail	E Newberry St	South of E Newberry St	929	0	\$1,520.00	\$0.00
Newberry Trail	West of S Kensington Dr	N of E College Ave	2473	0	\$1,520.00	\$0.00
Newberry Trail	S Kensington Dr	W of S Kensington Dr	955	0	\$1,520.00	\$0.00
Newberry Trail	Highway 441	S Kensington Dr	1136	0	\$1,520.00	\$0.00
Newberry Trail	Highway 441 Ramp	Highway 441 Ramp	268	0	\$1,520.00	\$0.00
Newberry Trail	Highway 441 Ramp	Highway 441 Ramp	85	0	\$1,520.00	\$0.00
Newberry Trail	Highway 441 Ramp	Highway 441 Ramp	245	0	\$1,520.00	\$0.00
Newberry Trail	West of S Railroad St	Highway 441	2043	0	\$1,520.00	\$0.00
Newberry Trail	S Railroad St	W of S Railroad St	2078	0	\$1,520.00	\$0.00
Newberry Trail	East of S Railroad St	S Railroad St	652	0	\$1,520.00	\$0.00
Apple Creek Trail	N Ballard Rd	N Meade St	6515	1	\$1,520.00	\$1,520.00
Apple Creek Trail	N Lightning Rd	N Ballard Rd	2412	1	\$1,520.00	\$1,520.00
Applecreek Trail	N French Rd	N Lightning Rd	4961	5	\$1,520.00	\$7,600.00
Highview Trail	N Meade St	West of N Meade St	2104	3	\$1,520.00	\$4,560.00
Highview Trail	N Meade St	West of N Meade St	1402	1	\$1,520.00	\$1,520.00
Applecreek Trail	Cherryvale Ave	N French Rd	3147	0	\$1,520.00	\$0.00
Apple Creek Trail	E Edgewood Dr	Cherryvale Ave	3698	1	\$1,520.00	\$1,520.00
Providence Trail	E Ashbury Dr	E of N Providence Ave	907	3	\$1,520.00	\$4,560.00
Providence Trail	E Ashbury Dr	E of N Providence Ave	463	0	\$1,520.00	\$0.00
Providence Trail	E Ashbury Dr	E of N Providence Ave	471	0	\$1,520.00	\$0.00
Providence Trail	E Ashbury Dr	E of N Providence Ave	743	5	\$1,520.00	\$7,600.00
				Crosswalks Subtotal		\$42,560.00

 $^{{\}tt *****} Assumes\ a\ crossing\ width\ of\ 40\ feet\ and\ ladder\ style\ walk\ epoxy\ with\ 2\ foot\ cross\ bars\ and\ 1.5'\ longitudinal\ bars.$

Upgrade Projects: Gate and Bollard Removal

						i		
Location	Cross Street 1	Cross Street 2	Length (Feet)	Bollards	*****Cost per Unit	Gates	*****Cost per Unit	Sub-total Gate and Bollard Removal
Newberry Trail	S Lawe Street	S Olde Oneida Street	1928	0	\$375.00	1	\$750.00	\$750.00
Newberry Trail	East of S Lawe Street	S Lawe Street	1083	0	\$375.00	1	\$750.00	\$750.00
Newberry Trail	West of E College Ave	East of S Lawe Street	1276	0	\$375.00	0	\$750.00	\$0.00
North Island Trail	S Lawe St	S Olde Oneida St	2005	1	\$375.00	0	\$750.00	\$375.00
Newberry Trail	E College Ave	West of E College Ave	890	0	\$375.00	0	\$750.00	\$0.00
Newberry Trail	West of E Newberry St	West of E Newberry St	949	0	\$375.00	0	\$750.00	\$0.00
Newberry Trail	E Newberry St	West of E Newberry St	1949	0	\$375.00	0	\$750.00	\$0.00
Newberry Trail	E Newberry St	South of E Newberry St	929	0	\$375.00	0	\$750.00	\$0.00
Newberry Trail	West of S Kensington Dr	N of E College Ave	2473	0	\$375.00	0	\$750.00	\$0.00
Newberry Trail	S Kensington Dr	West of S Kensington Dr	955	0	\$375.00	0	\$750.00	\$0.00
Newberry Trail	Highway 441	S Kensington Dr	1136	0	\$375.00	0	\$750.00	\$0.00
Newberry Trail	Highway 441 Ramp	Highway 441 Ramp	268	0	\$375.00	0	\$750.00	\$0.00
Newberry Trail	Highway 441 Ramp	Highway 441 Ramp	85	0	\$375.00	0	\$750.00	\$0.00
Newberry Trail	Highway 441 Ramp	Highway 441 Ramp	245	0	\$375.00	0	\$750.00	\$0.00
Newberry Trail	West of S Railroad St	Highway 441	2043	0	\$375.00	0	\$750.00	\$0.00
Newberry Trail	S Railroad St	West of S Railroad St	2078	0	\$375.00	0	\$750.00	\$0.00
Newberry Trail	East of S Railroad St	S Railroad St	652	0	\$375.00	0	\$750.00	\$0.00
Apple Creek Trail	N Ballard Rd	N Meade St	6515	0	\$375.00	1	\$750.00	\$750.00
Apple Creek Trail	N Lightning Rd	N Ballard Rd	2412	0	\$375.00	0	\$750.00	\$0.00
Applecreek Trail	N French Rd	N Lightning Rd	4961	0	\$375.00	1	\$750.00	\$750.00
Highview Trail	N Meade St	West of N Meade St	2104	0	\$375.00	0	\$750.00	\$0.00
Highview Trail	N Meade St	West of N Meade St	1402	0	\$375.00	0	\$750.00	\$0.00
Applecreek Trail	Cherryvale Ave	N French Rd	3147	0	\$375.00	1	\$750.00	\$750.00
Apple Creek Trail	E Edgewood Dr	Cherryvale Ave	3698	0	\$375.00	1	\$750.00	\$750.00
Providence Trail	E Ashbury Dr	E of N Providence Ave	907	0	\$375.00	0	\$750.00	\$0.00
Providence Trail	E Ashbury Dr	E of N Providence Ave	463	0	\$375.00	0	\$750.00	\$0.00
Providence Trail	E Ashbury Dr	E of N Providence Ave	471	0	\$375.00	0	\$750.00	\$0.00
Providence Trail	E Ashbury Dr	E of N Providence Ave	743	0	\$375.00	0	\$750.00	\$0.00
					Gates an	d Bollard	Subtotal	\$4,875.00

 $^{{\}tt ******} Assumes\ gates\ are\ not\ significantly\ larger\ than\ bollards\ and\ both\ are\ in\ concrete\ bases.\ Two\ posts\ per\ gate.$

Upgrade Projects: Total Cost

Location	Cross Street 1	Cross Street 2	Length (Feet)	Total Project Cost	Total Project Cost (w Contingency)
					, , , ,
Newberry Trail	S Lawe Street	S Olde Oneida Street	1928	\$1,000	\$1,200
Newberry Trail	East of S Lawe Street	S Lawe Street	1083	\$1,000	\$1,200
Newberry Trail	West of E College Ave	East of S Lawe Street	1276	\$43,000	\$51,600
North Island Trail	S Lawe St	S Olde Oneida St	2005	\$84,000	\$100,800
Newberry Trail	E College Ave	West of E College Ave	890	\$24,000	\$28,800
Newberry Trail	West of E Newberry St	West of E Newberry St	949	\$25,000	\$30,000
Newberry Trail	E Newberry St	West of E Newberry St	1949	\$55,000	\$66,000
Newberry Trail	E Newberry St	South of E Newberry St	929	\$23,000	\$27,600
Newberry Trail	West of S Kensington Dr	N of E College Ave	2473	\$79,000	\$94,800
Newberry Trail	S Kensington Dr	West of S Kensington Dr	955	\$24,000	\$28,800
Newberry Trail	Highway 441	S Kensington Dr	1136	\$28,000	\$33,600
Newberry Trail	Highway 441 Ramp	Highway 441 Ramp	268	\$0	\$0
Newberry Trail	Highway 441 Ramp	Highway 441 Ramp	85	\$0	\$0
Newberry Trail	Highway 441 Ramp	Highway 441 Ramp	245	\$0	\$0
Newberry Trail	West of S Railroad St	Highway 441	2043	\$0	\$0
Newberry Trail	S Railroad St	West of S Railroad St	2078	\$0	\$0
Newberry Trail	East of S Railroad St	S Railroad St	652	\$0	\$0
Apple Creek Trail	N Ballard Rd	N Meade St	6515	\$22,000	\$26,400
Apple Creek Trail	N Lightning Rd	N Ballard Rd	2412	\$79,000	\$94,800
Applecreek Trail	N French Rd	N Lightning Rd	4961	\$28,000	\$33,600
Highview Trail	N Meade St	West of N Meade St	2104	\$57,000	\$68,400
Highview Trail	N Meade St	West of N Meade St	1402	\$37,000	\$44,400
Applecreek Trail	Cherryvale Ave	N French Rd	3147	\$62,000	\$74,400
Apple Creek Trail	E Edgewood Dr	Cherryvale Ave	3698	\$29,000	\$34,800
Providence Trail	E Ashbury Dr	E of N Providence Ave	907	\$27,000	\$32,400
Providence Trail	E Ashbury Dr	E of N Providence Ave	463	\$12,000	\$14,400
Providence Trail	E Ashbury Dr	E of N Providence Ave	471	\$0	\$0
Providence Trail	E Ashbury Dr	E of N Providence Ave	743	\$35,000	\$42,000
			Total of all Projects	\$775,000	\$930,000

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FUNDING OPPORTUNITIES

FEDERAL				
INCENTIVE	PROGRAM DESCRIPTION	AVAILABILITY	EFFECTIVENESS	RELEVANCE
TIGER Discretionary Grants	\$500 million to road, rail, transit, and port projects. Applicants must detail the benefits their project would deliver for five long-term outcomes: safety, economic competitiveness, state of good repair, quality of life, and environmental sustainability. USDOT also evaluates projects on innovation, partnerships, project readiness, benefit cost analysis, and cost share. TIGER can provide capital funding directly to any public entity. TIGER can fund projects that have a local match as low as 20 percent of the total project costs.	Highly competitive. Must demonstrate significant impact on the nation, a metropolitan area, or a region. Recognizes projects nationwide that will advance key transportation goals such as safety, innovation, and opportunity.	Since 2009, more than \$210 million have gone to bicycle and pedestrian projects.	Pedestrian Projects
Transportation Alternatives Program (TAP) Funding	Combination of Safe Routes to School, Bicycle and Pedestrian, and Transportation Enhancement programs	Applications are accepted every other year, with the next round of applications being available in 2017 (likely late in year) for construction to begin in 2018/2019	Applications go through the Appleton MPO. Grants are 80% of project cost.	Trail development
Community Development Block Grant (CDBG)	Federal program which provides funds for the benefit of Low and Moderate Income Persons (LMI) and for blight elimination. Range of eligible activities include acquisition, demolition, public improvements, relocation, property rehab, housing, planning, microenterprise assistance and public service.	Appleton is a designated entitlement community. Application cycle is annual, with next deadline May 27, 2016.	Slightly more administratively burdensome but serves a different purpose and complements well with other incentives.	Infrastructure improvements, which could include trails
Surface Transportation Program (STP)	Funding to States and localities to preserve and improve the conditions and performance on any Federal-aid highway, bridge and tunnel project on any public road, pedestrian and bicycle infrastructure, and transit capital projects, including intercity bus terminals. 10% set aside can be used to build bicycle and pedestrian facilities. Applications go through the Appleton MPO.	Bi-annual, spring 2016 for 2018-2020 funding. Amount varies; 2016 has a \$50 million fund. Bicycle, pedestrian, and trails		

FEDERAL				
INCENTIVE	PROGRAM DESCRIPTION	AVAILABILITY	EFFECTIVENESS	RELEVANCE
Congestion Mitigation and Air Quality Improvement Program (CMAQ)	Funding source to state and local governments for transportation projects and programs to help meet the requirements of the Clean Air Act. Funding is available to reduce congestion and improve air quality. 10% set aside can be used to build bicycle and pedestrian projects that emphasize air quality improvements. Applications go through the Appleton MPO.	Bi-annual, spring 2016 for 2018-2020 funding. Amount varies; 2016 has a \$27 million fund. Bicycle and pedestrian facilities, trail bridges, and roadway intersections with trails		
Land & Water Conservation Fund (LWCF) from National Park Service	The LWCF program can be divided into the "State Side" which provides grants to State and local governments, and the "Federal Side" which is used to acquire lands, waters, and interests necessary to achieve the natural, cultural, wildlife, and recreation management objectives of federal land management agencies.	Annually, spring application for funding in following spring. \$3 million biennially; \$500,000 project cap.		ROW acquisition and construction
Land and Water Conservation Fund (LWCF) Outdoor Recreation Legacy Partnership Program from National Park Service	Identifies and highlights new ways of promoting opportunities for expanding outdoor play in areas with great need, as well as promoting the development of new or enhanced partnerships for outdoor recreation in urban communities across the nation. Targets projects that serve economically and/or recreationally-disadvantaged communities in areas with over 50,000 people.	Annually, spring application for funding in following spring. Up to \$15 million biennially; \$750,000 project cap		Acquisition and development of public outdoor recreation areas and facilities.
Federal Highway Safety Improvement Program (HSIP)	Program aims to achieve significant reduction in traffic fatalities and serious injuries on all public roads, including non-State-owned public roads and roads on tribal lands. The HSIP requires a data-driven, strategic approach to improving highway safety on all public roads that focuses on performance.	WiDOT is currently accepting completed HSIP applications. The application review process will begin after the February 15, 2017 deadline.		Engineering strategies to reduce fatal and serious injury crashes including wayfinding, pedestrian and bicycle safety infrastructure and improvements.

FEDERAL				
INCENTIVE	PROGRAM DESCRIPTION	AVAILABILITY	EFFECTIVENESS	RELEVANCE
Enhanced Mobility of Seniors and Individuals with Disabilities Program	Funds for capital and operating projects that improve the mobility of seniors and individuals with disabilities. Eligible applicants include private non-profits and local public bodies. Eligible projects include the purchase of Human Service Vehicles (see the procurement webpage for details), operating budgets, Mobility Managers, coordination and nonvehicle capital.	Funding determined by a formula based on the number of seniors and people with disabilities in each state		
Federal Lands Access Program	Funds to improve transportation facitilies that provide access to or within Federal lands, specifically high-use recreation sites and economic generators. Funding can apply to public roads, transit systems, and other facilities as a supplement to State and local resources.	Future funding dependent on Federal Transportation Funding authorization; anticipated in 2021.		
Recreational Trails Aids (RTA) Program	This is a federal program administered in all states. Municipal governments and incorporated organizations are eligible to receive reimbursement for development and maintenance of recreational trails and trail-related facilities for both motorized and non-motorized recreational trail uses. Eligible sponsors may be reimbursed for up to 50 percent of eligible project costs. Funds from this program may be used in conjunction with funds from Knowles-Nelson Stewardship development projects.	May 1st annually	Municipal governments and incorporated organizations whose primary purpose is trails or trail usage can apply for this funding.	Maintenance or restoration of existing trails; Development or rehabilitation of trailside/ trailhead facilities and trail linkages; Construction of new trails; Property acquisition for trails.

STATE				
INCENTIVE	PROGRAM DESCRIPTION	AVAILABILITY	EFFECTIVENESS	RELEVANCE
Community Development Investment Grant (CDIG)	State of WI program offered by WEDC for re/development providing financial incentives for shovel-ready projects for downtown community-driven efforts. Funds go to City.	Grants up to \$250,000 are available and applications are accepted throughout the fiscal year, however WEDC staff estimates all funding for this fiscal year will be committed by December of 2016, making an early application mandatory should the City desire to access this funding source. Having a Development Agreement in place is needed for a competitive application.	Very effective depending on the project. Requires a community match so should be structured with project benefitting residents and employees downtown. Possibility for redevelopment of Soldiers Square or other public project.	Downtown redevelopment projects; including parks, trails as well as tax producing projects
Natural Resource Damage Assessment (NRDA) Program	Settlement funding from Fox River contamination lawsuits. Money can be used for environmental, recreation, and access activities in Lower Fox River	On-going grant cycle; currently approx. \$42 million available. Current 5-yr plan to expend \$3M/ year including up to \$400K on "public use." On-going application process.	Numerous communities along Lower Fox River have used the funding on a variety of projects	Trail development, pier. However, need to frame project as providing "fisheries access" vs. active transportation
Transportation Facilities Economic Assistance and Development Program (TEA)	WDOT funding for transportation related projects which support economic development	Year Round. Generally up to \$5,000 per job created or retained for streets and stormwater improvements.	Funding is generally limited to projects supporting development of manufacturing and or distribution, however the Department has funded projects involving large scale medical center development. Should transportation improvements be needed, this program should be evaluated for use	Trail development if tied to positive economic development outcome

STATE				
INCENTIVE	PROGRAM DESCRIPTION	AVAILABILITY	EFFECTIVENESS	RELEVANCE
WDNR Recreational Boating Facilities Grant	These grants may be used by counties, towns, cities, villages, tribes, sanitary districts, public inland lake protection and rehabilitation districts and qualified lake associations for recreational boating facility project. Past projects have included ramps and service docks to gain access to the water, feasibility studies, purchase of aquatic weed harvesting equipment, navigation aids and dredging waterway channels.	A five-member Waterways Commission, appointed by the governor, reviews and recommends projects for funding. Deadlines are established quarterly.	Focus on boating facilities	Riverfront development; could fund portion of trail if used to provide access to water resource
WDNR Sports Fishing Restoration (SFR)	These grants may be used to construct fishing piers and motorboat access projects. Eligible components include boat ramp construction and renovation, along with related amenities such as parking lots, accessible paths, lighting and restroom facilities. Funding for this program comes from federal excise taxes on fishing equipment and a portion of the federal gas tax.	Grant application materials may be submitted at any time. For consideration in the federal fiscal year that begins each October, applications must be received by the regional Grants specialist no later than December 1 of the previous year.	Focus on fishing access	Riverfront development, accessible trails
WDNR Knowles- Nelson Stewardship Program	Aids for the Acquisition and Development of Local Parks (ADLP) is a regional allocation program which provides up to 50 percent matching grants to local and county units of government and nonprofit conservation organizations (NCOs) to provide assistance for the acquisition and development of local and county parks. NCOs can use these funds for the acquisition of land or easements only. County and local governments may use ADLP funds for the purchase of land and easements and the development of outdoor recreation areas for nature-based outdoor recreation purposes.	Application deadline - May 1 of each year; \$4.0 million distributed annually statewide	Projects submitted for grants under the Stewardship Program must be included in a locally- adopted park plan.	Jones/Ellen Kort/YMCA Ramp Site; Trail development

STATE				
INCENTIVE	PROGRAM DESCRIPTION	AVAILABILITY	EFFECTIVENESS	RELEVANCE
WDNR Knowles- Nelson Stewardship Program	Urban Green Space (UGS) is a Statewide program which provides up to 50 percent matching grants to local and county units of government and NCOs to acquire or protect scenic, ecological, or other natural features within or near urban areas and provide land for nature-based outdoor recreation, including noncommercial gardening. These funds can be used for the acquisition of land only.	[Application deadline - May 1 of each year; \$4.0 million distributed annually statewide]	Projects submitted for grants under the Stewardship Program must be included in a locallyadopted park plan.	Jones/Ellen Kort/YMCA Ramp Site
WDNR Knowles- Nelson Stewardship Program	Urban Rivers (URGP) is a Statewide program which provides up to 50 percent matching grants to local and county units of government and NCOs to purchase land or easements, or to develop shoreline enhancements on or adjacent to rivers that flow through urban or urbanizing areas. This program is intended to preserve or restore urban rivers or riverfronts for the purpose of revitalization and nature- based outdoor recreation activities. NCOs can use these funds for the acquisition of land or easements only.	[Application deadline - May 1 of each year; \$1.6 million distributed annually statewide]	Projects submitted for grants under the Stewardship Program must be included in a locallyadopted park plan.	Jones/Ellen Kort Peace Park
WDNR Knowles- Nelson Stewardship Program	The Land and Water Conservation Fund (LAWCON) program was established by the U.S. Congress in 1964 to provide funding for the acquisition of land for park or open space preservation purposes and the development of outdoor recreation facilities. In Wisconsin, LAWCON funds are administered by the DNR. Up to 50 percent of project costs are eligible for funding under this program. A portion of this amount is available to local and county units of government for the acquisition of land and the development of parks and trails. The "nature-based" restriction in the Stewardship Program does not apply to LAWCON funds.	[Application deadline - May 1 of each year; \$1.6 million to the State of Wisconsin allocated by Congress, 2005]	Projects submitted for grants under the Stewardship Program must be included in a locallyadopted park plan.	Jones/Ellen Kort Peace Park

CITY				
INCENTIVE	PROGRAM DESCRIPTION	AVAILABILITY	EFFECTIVENESS	RELEVANCE
Tax Increment Financing (TIF)	Property taxes generated in a defined area on new development is used by City to pay for investments in improvements or entice new improvements, and therefore increase tax base. Incentive goes to private sector project expected to generated incremental property tax revenue.	TIF should be used wherever possible, particularly if building on an underutilized site with low value. Where a district does not exist now, a new TIF district should be explored as an option. The possibility of transferring funds from a district with positive increment to a downtown TIF should be explored.	Extremely effective when development occurs and generates positive increment.	Downtown redevelopment projects

OTHER				
INCENTIVE	PROGRAM DESCRIPTION	AVAILABILITY	EFFECTIVENESS	RELEVANCE
American Greenways Kodak Awards Program	Provides small grants (\$500- \$2,500) to local greenways projects.	National competition — single digit number of awards annually. Applications due between March 1 and June 1 yearly.	Highly competitive and relatively low dollar awards.	
American Hiking Society – National Trails Fund	Privately supported, national grants program dedicated to building and protecting hiking trails.	Only open to American Hiking Society members (must be a 501(c)(3) or have a fiscal agent. Grants available up to \$5,000. Deadline is typically February annually.	Relatively low dollar amount. Projects must be completed in one year – multi- year projects only considered in exceptional circumstances.	
People for Bikes Community Grant Program	Funding for projects that leverage federal funding, including bike paths and rail trails, mountain bike trails, bike parks, BMX facilities, and large-scale bicycle advocacy initiatives.	Local governments and non-profits may apply with requests of up to \$10,000. 2017 grant cycle will be posted and available in November of 2016.	National competition — relatively low dollar grants. Does not fund planning activities.	
International Mountain Biking Association (IMBA)	Funding for maintaining and improving the sustainability of local trails, preserve the environment and enhance conservation in the mountain biking community.	Deadline is typically late summer or fall annually. Open to 501(c) (3) organizations and chapter or supporting organization status with IMBA.		

OTHER				
INCENTIVE	PROGRAM DESCRIPTION	AVAILABILITY	EFFECTIVENESS	RELEVANCE
Fox Cities Greenways	Non-Profit dedicated to fostering preservation and development of greenways and trails in the Fox Cities.	Smaller grant amounts, no deadlines. Inquire with administrative assistant with specific request. annette4greenways@ gmail.com	Matching funds	Trail development; corridor preservation
Fox Cities Convention and Visitors Bureau	Funding for projects which attract visitors to greater Fox Valley.	Inquire with Director for specific request. pseidl@foxcities.org	Matching funds	Trail development
Community Foundation of the Greater Fox Cities	Partnership grant up to \$25K. The partners work together for shared outcomes. Traditionally one organization is the lead and takes responsibilities for the financial liabilities for the joint effort.	Call to discuss idea. Program in the process of being combined with other grant pools, may provide opportunity for larger funding amount. https://www. cffoxvalley.org/ grants/environmental- sustainability- partnership-grants/	Matching funds, likely require non- profit partnership.	Trail development
WE Energies Foundation	Relevant focus areas include economic health and environment. Grantee must be a qualified charitable, not-for-profit 501(c)(3) tax exempt organization, per Internal Revenue Service Code guidelines	Applications are reviewed on a quarterly basis. Applications for the first quarter must be received by Jan. 31, second quarter by April 30, third quarter by July 31 and fourth quarter by Oct. 31. https://www.we-energies.com/foundation/faq.htm	Requires partnering with a non-profit. WE Energies trail	WE Energies trail
Outagamie County Greenways	Designed as a partnership grant opportunity for local units of government to further develop Outagamie County's greenway system, up to 25% of a greenway project's costs can be reimbursed as part of this program. For 2016, \$25,000 in funding has been allocated for greenway projects.	Spring grant deadline (2016). Check website for next year's cycle. http://www. outagamie.org/index. aspx?page=1400	Matching funds.	Bike, pedestrian, and other networks (e.g. trails, paths, and lanes), and environmental corridors (e.g. wildlife, waterways or other natural corridors).

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TRAIL DESIGN BEST PRACTICES



Introduction

Trails are an important part of the non-motorized transportation network in Appleton. Trails provide both recreational opportunities, and low-stress off-street connections to local destinations. Trails appeal to a variety of users with a variety of skill levels and abilities, and residents are expressing a growing interest in trail expansion. To accommodate growing user demand and ensure that future trails are appropriately designed for all types of users, this document presents trail design best practices to be used as guidelines in conjunction with existing city design guidelines. This document is part of the Trails Master Plan for Appleton which provides a framework for future investments in multi-modal facilities. improved network connectivity, improved safety and accessibility for all trail users, and improved quality of non-motorized facilities to the benefit of Appleton visitors and residents.

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Trails attract a variety of users with different needs and expectations. Important design characteristics for different users are width, surface material, sight distances, clearances, and trail amenities. The following section provides the framework for incorporating standards and guidelines for trail design and planning. Trail users include:

- » Pedestrians—joggers, walkers, baby strollers, pet walkers, nature watchers
- » **Bicyclists**—commuters, recreational riders, touring riders
- » In-line **skaters** and skateboarders
- Wheelchair users and users of other mobility devices, such as Electronic Personal Mobility Devices (EPMD)

User Behavior

The flexibility of trails draws many different users, and accommodating a safe and predictable environment for all is an important issue in trail planning, design, and development. Within a given trail width, there will be different user types traveling at different speeds, potentially large groups traveling together, and/or high volumes of people. Trail users should recognize and anticipate other user behaviors unique to user type to avoid potential conflicts. The potential user-type behavior conflicts are indicated in the table below.

Table 1 - User Type Potential Conflicts With Other Users

PEDESTRIANS (includes any users on foot) Multiple pedestrians may walk more than two abreast, making it difficult for other users to Children may wander unpredictably on the trail Pet owners may not exercise on-leash etiquette, and pets may wander unpredictably on May stop or turn suddenly, before other users can react May not keep to the right, making it difficult for other users to pass **BICYCLISTS** Have tendency to startle other users if not using voice or bell when passing May ride more than two abreast, making it difficult for other users to pass May not obey posted speed limits May frighten wildlife SKATERS Have tendency to startle other users if not using voice or bell when passing May use a wider portion of the trail for sweep width, making it difficult for other users to pass May frighten wildlife WHEELCHAIR USERS May not keep to the right, making it difficult for other users to pass

Trail user behavior can be managed through safety programs that provide the individual user with a **Code of Conduct** for the trail, sometimes called a **Trail Ordinance**. Several communities across the U.S. have adopted progressive trail ordinances for public use. Other factors which lead to user conflicts, including the design and engineering of a trail, are discussed further in following sections of this document.

Design Needs of Pedestrians

Aside from space requirements related to pedestrian-specific activities such as pet walking or running, pedestrians have a wide variety of physical characteristics determining user needs and abilities. Age is one major factor that affects pedestrians' walking speed and environmental perception. Children have low eye height and walk at slower speeds than adults. They also perceive the environment differently at various stages of cognitive development. Older adults walk more slowly and may require assisting devices for walking stability, sight, and hearing. The table below summarizes common pedestrian characteristics for various age groups. As a rule of thumb, the MUTCD recommends a normal walking speed of three and a half feet per second for calculating the time needed for pedestrian crossings at traffic signals. Average walking speed is lowered to three feet per second in areas with older populations and persons with mobility impairments. While the type and degree of mobility impairment varies greatly across the population, the trail system should accommodate these users to the greatest reasonable extent at trail intersections, sharp turns, overpasses, and underpasses.



Table 2 - Pedestrian Characteristics by Age

	, J
AGE	CHARACTERISTICS
	Learning to walk
0-4	Require constant adult supervision
	Developing peripheral vision and depth perception
5-8	Increasing independence, but still require supervision
	Poor depth perception
9-13	Susceptible to "dart out" or intersection dash
	Poor judgment
	Sense of invulnerability
14-18	Improved awareness of traffic environment
	Poor judgment
19-40	Active, fully aware of traffic environment
41-65	Slowing of reflexes
65+	Difficulty crossing street in time
	Vision loss
	Difficulty hearing vehicles approach from behind







Design Needs of Dog Walkers

Dog walking is a common, anticipated use on trails. Dog sizes vary largely, as does leash length and walking style, leading to wide variation in possible design dimensions. Trails designed to accommodate wheelchair users are likely to provide the necessary dimensions for the average dog walker. Amenities such as dog waste stations at trailheads enhance conditions for dog walkers.

Design Needs of Joggers and Runners

Running is an important recreation and fitness activity commonly performed on trails. Many runners prefer softer surfaces (such as rubber, bare earth, or crushed rock) to reduce impact. Among hardened surfaces, asphalt is preferred over concrete because it is more forgiving on joints. Runners can change their speed and direction frequently. Typical running speed is 6.2 miles per hour (mph).

Design Needs of Strollers

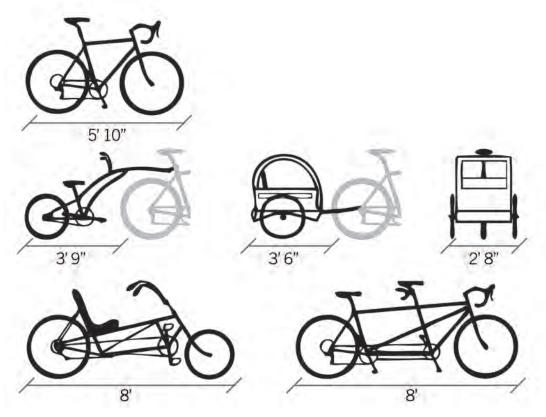
Strollers are wheeled devices pushed by pedestrians to transport babies or small children. Stroller models vary greatly in their design and capacity. Some strollers are designed to accommodate a single child; others can carry three or more. Design needs of strollers depend on the wheel size, geometry, and ability of the adult who is pushing the stroller. Strollers commonly have small pivoting front wheels for easy maneuverability, but these wheels may limit their use on unpaved surfaces or rough pavement. Curb ramps are valuable to these users. Lateral overturning is one main safety concern for stroller users.

Design Needs of Bicyclists

Bicyclists and their bicycles exist in a variety of sizes and configurations. These variations occur in the types of vehicle (such as a conventional bicycle, a recumbent bicycle, or a tricycle) and behavioral characteristics (such as the comfort level of the bicyclist). The design of a trail should consider expected bicycle types on the facility and utilize the appropriate dimensions. The figure below illustrates the varying dimensions of bicycles. Bicyclists require clear, open space with no visual obstructions to operate within a facility. The minimum operating width is greater than the physical dimensions of the bicyclist to allow the bicyclists shy distance from vertical obstacles and to allow maneuvering space around uneven pavement or other obstructions. Bicyclists prefer five feet or more operating width, although four feet may be minimally acceptable. Bicyclist speeds range from 8-15 mph on a paved level surface. Uphill speeds range from 5-12 mph, and downhill bicyclist speeds can reach 20-30 mph. A design speed of 10 mph is used for bicycle signage and crossings.



Figure 1 - Typical Bicycle Dimensions Source: AASHTO 3.2







Design Needs of Skaters

In-line skates are commonly used for recreational and transportation purposes. They typically have three to five wheels of three to four inches diameter, aligned in a straight line. Operational characteristics vary by skill level. Novice skaters travel more slowly and have a narrower sweep width from advanced skaters. Novice users may also have trouble making sharp turns and stopping quickly, particularly on steep grades. In-line skates are nearly impossible to use on unpaved surfaces and can be uncomfortable and difficult to operate on rough pavements, such as asphalt with large aggregate. In-line skaters have a typical speed of 10 mph.

Design Needs of Wheelchair Users

As the population ages, the number of people using mobility assistance devices increases. Manual wheelchairs are self-propelled by the user's hands and arms by pushing rims attached to the wheels. Braking is done through resisting wheel movement with the hands or arm. Alternatively, a second individual can control the wheelchair using handles attached to the back of the chair. Typical speed for manual wheelchair users is 3.6 mph. Power wheelchairs use a battery powered motor to move. The size and weight of power wheelchairs limit their ability to negotiate obstacles without a ramp. Various control units are available that enable users to control the wheelchair movement, based on user ability (e.g., joystick control, breath controlled). Typical speed for power wheelchair users is 6.8 mph. Maneuvering around turns requires additional space for both types of wheelchair devices. Providing adequate space for 180° turns at appropriate locations is an important element for accessible design.

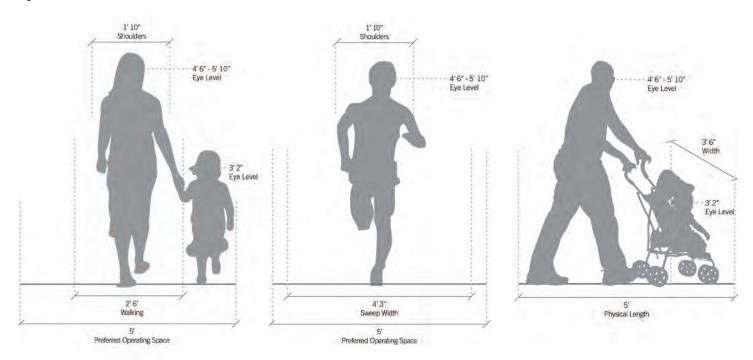
Winter Design Needs

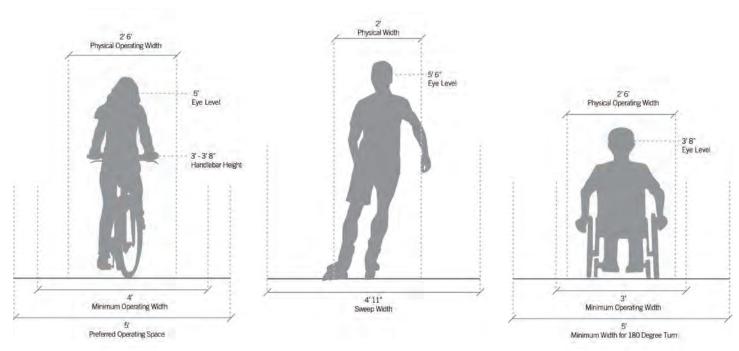
Trails can also be used for winter recreational activities such as snowshoeing, nordic skiing, or riding fat bikes. Trails used for these activities should only be on trails or segments of trails that do not serve as key bicycle and pedestrian connections that would require snow removal. For more information, see Winter Maintenance pg 60.

Trail User Dimensions

The figure to the right illustrates the spatial needs of the trail user groups discussed. Note that the preferred operating width for all user types is approximately five feet.

Figure 2 - Trail User Dimensions





FACILITY SELECTION

Trails can vary in width, material, and degrees of user separation. Trail types are selected based on available width, anticipated user types, and user volumes. This section outlines the following trail typologies:

- » Sidepaths—designated non-motorized facility adjacent to a roadway
- » Shared Use Paths—off-street facility for use of all nonmotorized user groups
- » Separated Use Paths—parallel off-street facilities separated by mode, typically pedestrians and slower moving users on one path and faster moving users such as bicycles and skaters on an adjacent path
- » Soft-Surface Trails—narrow dirt or compact gravel paths for use by runners, equestrians, or mountain bikes either adjacent to a paved trail or in parks or other natural areas

Paved Trails Continuum

For trails with anticipated use from multiple user groups, including bicyclists or other wheeled users that prefer a paved surface, there is a spectrum of trail widths from minimal comfort to complete mode separation. Moreover, there are different means of separating user groups. Figure below illustrates the spectrum of trail facilities.

Paved Trails Continuum

least comfortable most comfortable

SIDEPATH: Elevated path adjacent to a roadway shared by all user groups

SHARED USE PATH: Off-street path shared by all user groups

VISUAL SEPARATED USE PATH:

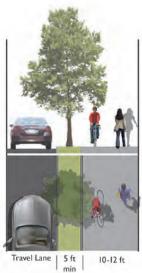
Off-street path with visual separation of trail uses by material change or striping

VERTICAL SEPARATED USE PATH:

Off-street path with elevation change to delineate trail user zones

HORIZONTAL SEPARATED USE PATHS:

Two distinct off-street paths separated by mode











Sidepath

As defined by AASHTO, a sidepath is a shared use path located immediately adjacent and parallel to a roadway. Sidepaths are for two-way movement by bicycles, pedestrians and other nonmotorized users. Sidewalks are not considered sidepaths as they are not conducive to riding a bicycle and can lead to user conflicts (AASHTO, Section 3.4.2). Sidepaths are appropriate adjacent to roadways with high speed or high volumes of motor vehicles that would discourage bicyclists from using the roadway, and there are no practical alternatives to improving the roadway or redirecting cyclists to alternate routes. Sidepaths may also be used to supplement on-street bikeways. However where sidepaths are placed adjacent to roadways without on-street bike facilities, some cyclists may still opt for the roadway as a more direct route, and may suffer driver harassment. Moreover, drivers may not anticipate bicycles on the sidepath and there are potential conflict points at driveways and intersections (AASHTO, Section 5.2.2). Thus, if possible, shared use paths should be designed on a corridor distinct from the roadway, as described in the shared use path section below.

Sidepaths must have a minimum of five feet of distance between the path and the roadway. If this setback distance is not available, there must be a barrier or railing to protect the path from vehicles and to discourage path users from crossing the roadway other than designated locations (AASHTO, Section 5.2.2). Sidepaths are eight to fourteen feet wide, and accommodate low volumes of users as described in the shared use path section below.







Shared Use Path

A shared use path is an off-street dedicated facility for two-way bicycle traffic and other non-motorized users such as pedestrians, skaters, wheelchair users, and joggers. Shared use paths are a 10 to 12 feet wide single surface capable of accommodating low to moderate volumes of users. 12 feet is preferred to enable a cyclist to pass another path user going the same direction, while another path user is approaching from the opposite direction. AASHTO defines 10 feet as the minimum paved dimension for two way travel. An absolute minimum width of eight feet which should only be considered in constrained conditions for short distances (Section 5.2.1). At low volumes shared use paths are functional, pleasant, and adequate for use by users of all ages and abilities. Preferred volumes for shared use paths:

» Volumes less than 30 pphpf* (CROW, p.136)

*pedestrians per hour per foot of path width

Visual Separated Use Path

Separated use paths are multi-use paths with delineated space to separate travel modes and sometimes directions. Separation generally separates fast user types (bicyclists, roller-bladers, skate boarders) from slow user types (pedestrians, or small children on bicycles). Separation may be visual, such as a four inch painted line and pavement markings, or a material change. Commonly, concrete is used for pedestrian tread area, and dark asphalt is used for bicycle tread area. Signs can also supplement pedestrian and bicycle zones. Visual separation of paths is appropriate for paths with limited widths and lower volumes. Preferred minimum width for separated use is 15 feet: a 10 foot bicycle path and five foot pedestrian path (AASHTO, Section 5.2.1).

» Volumes of 30 - 48 pphpf (CROW, p.136)

Vertical Separated Use Path

Another type of trail user separation is an elevation change, where pedestrians are at a higher elevation than cyclists. The elevation is generally achieved by a mountable or rolled curb so that users can briefly move onto the adjacent path for a passing or evasive maneuver if necessary. A minor grade separation of a three inch curb offers positive guidance for user positioning without interfering with pedals (NACTO, 2012). This type of separation is appropriate for slightly higher user volumes.

» Volumes of 48-60 pphpf (CROW, p.136)



Finally, trail user groups can be on completely distinct paths so there is no point of conflict. This is necessary for trails of very high user volumes. However, these trails will often need to converge to one trail at intersections and driveway crossings for limited conflict points with motor vehicles. Paths can be divided by a narrow dividing strip of gravel, cobblestones, grass, or pavers. With four feet or greater space for user separation, this area may be used for path furnishings such as lighting, shrubs, or small trees. These vertical elements further enforce user separation. Trail direction can also be separated into separate paths. If bicycle treads are physically separated by direction, each path should be five feet minimum width with a preferred minimum is seven feet to allow for passing (NACTO, 2012).

» Volumes greater than 60 pphpf (CROW, p.136)

Soft Surface Trails

Soft surface trails are usually adjacent to paved trails, or travel through parks or other natural areas. Trail width will vary depending on the existing topographic and environmental conditions, but are typically three to eight feet wide with no required shoulder. Trail surface can be made of dirt, rock, soil, forest litter, or other native materials. Some trails use crushed stone (aka "crush and run") that contains about 4% fines by weight, and compacts with use. Soft surface trails may be preferred by runners and mountain bikers, but are not preferred by road bikers or in-line skaters. There are also slope and surface material considerations for ADA accessible trails. See Accessible Trail Design on page 22 for further discussion.







FACILITY DESIGN

Paved trails have basic parameters of best practice design discussed the following sections:

- » Materials—paving types
- » **Standards**—slopes, clearances, ADA and CPTED
- » Pavement Markings—centerlines and edge lines
- » Edge Conditions—defining the trail edge
- » Drainage-ensuring proper water flow and erosion control



Trail Surface

When determining surface type for paved trails, consider topography, surrounding landscape, underlying soils, and user needs. All surfaces have advantages and disadvantages, and each must be analyzed to determine which surface is appropriate in any given location. American Disabilities Act Accessibility Guidelines (ADAAG) compliant trails require firm, stable, slip resistant surfaces, which in most instances is a paved surface for access and ease of use. In some cases, packed gravel fines can be used, where there is little to no topography. However, packed surfaces require much more maintenance effort and cost over time, and may not be desirable in the long term.



Paved Surface Materials

For paved trails, a proper foundation will increase the longevity of the trail surface. Two inches of surfacing material over six inches of base course gravel over geotextile fabric is recommended for construction.

Asphalt is a common surface for trails, offering substantial durability for the cost of installation and maintenance. Asphalt is popular with users for its smooth, continuous surface and has the benefit of lower cost, but requires more upkeep than concrete. As a flexible pavement, asphalt can also be considered for installing a paved trail on grades steeper than 3%. If constructed properly on suitable sub-grade, asphalt has a life span of about half that of concrete, or 10 to 15 years.



Concrete can last twenty five years or more when properly constructed and maintained on a regular basis,. The high cost of concrete is often the most limiting factor since it is one of the most expensive surfaces to install. It is recommended that concrete be used for its superior durability and lower maintenance requirements in areas prone to frequent flooding, and for intensive urban applications. To prevent expansion joints from jarring cyclists or in line skaters, saw cut concrete joints rather than troweled improve user experience.

Permeable paving is twice the cost of asphalt to install and is only recommended in very special trail applications. Permeable paving should only be used areas with proper drainage, and is not suitable in floodplain or areas with ponding or sedimentation. Permeable paving also requires a maintenance schedule for vacuuming debris after storm events to retain permeability.

Width

Eight feet is the absolute minimum width allowed for a shared use trail and is only recommended in constrained conditions for short distances. The AASHTO defined minimum width for a two-way trail is 10 feet. However, 12 feet (and in very heavy trail use, fourteen feet or more) is recommended for trails with moderate to high concentrations of users and/or variety of users. A separate soft surface track (five feet minimum) can be provided adjacent to a paved shared use path for pedestrian use where right-of-way permits.

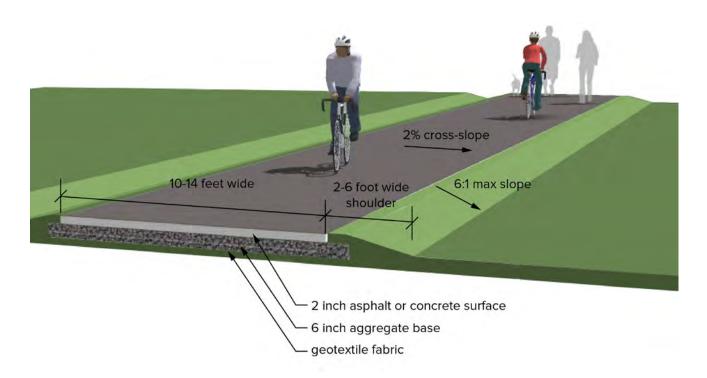
Clearances

A two foot minimum graded shoulder should be provided on both sides of the trail for clearance from lateral obstacles such as signs, vegetation, or bridge abutments. Ideally, shoulders are three to five feet wide with a maximum cross slope of 1V:6H (AASHTO, Section 5.2.1).

Clearance to overhead obstructions should be 10 feet, and an absolute minimum of eight feet only in constrained conditions. Note that higher clearances may be necessary for maintenance or emergency vehicle access.

Cross-Slope

Trails should provide a 2% cross slope from crown of trail in both directions to provide positive drainage off the trail as conditions allow. The cross slope should be no greater than 5% for accessibility requirements.





Accessible Trail Design

The United States Access Board ADA accessibility guidelines apply to trails and outdoor recreational access routes. In addition to the surface and cross-slope requirements described prior, accessible trails require the following:

Clear tread width: three feet minimum for low-volume, pedestrianonly facilities; 10 feet minimum for multi-use facilities. Where trail width is less than 60 inches, passing space must provided at least every 1,000 feet.

Low longitudinal slope: 5% or less. Steeper slopes may be used if resting intervals of no less than five feet long and equal to the width of the trail are provided at the bottom and the top of the slope in the intervals listed below. No more than a third of the total trail length may exceed a running slope of 8.33%.

- » Up to 8.33% for a maximum of 200 longitudinal feet
- » Up to 10% for a maximum of 30 longitudinal feet
- » Up to 12.5% for a maximum of 10 longitudinal feet

Consistent smooth surface: 0.5 inches is the maximum vertical discontinuity, and any disruption greater than 0.25 inches high shall be beveled to avoid trip hazards

Detectable pavement changes: provided at curb ramps, before entering roadways, and at rail crossings

Crime Prevention Through Environmental Design (CPTED) Principles for Trails

Personal safety, both real and perceived, heavily influences a trail user's decision to use a facility and a community's decision to embrace the trail system. CPTED is a proactive approach of using design principles to deter undesired behavior.

- » Principle #1: Natural Surveillance
- » Principle #2: Natural Access Control
- » Principle #3: Territorial Reinforcement
- » Principle #4: Maintenance

These principles can be applied to trail facility design, management features, and trail amenities:

Sight lines: Where possible, trails should be located near buildings with windows facing the trail, or adjoining properties with open views to the trail. Convex mirrors should be provided at blind corners and at the approaches to underpasses with poor sight lines.

Fencing: Where feasible, fencing installed along trails should not obstruct the view of trail users. Permeable fencing of four feet tall or less can provide a barrier sufficient to denote property boundaries or deter access. Opaque fencing or walls can degrade the experience of trail users, obscure views, and create a "tunnel" effect that can cause users to feel "trapped." Where the trail is fenced for long stretches, intermittent openings should be located to allow users to enter and exit the trail. Access points to the trail should be at locations with good visibility from the surrounding neighbors.

Vegetation: All ground cover and shrubs along trails should be trimmed to a maximum height of three feet above ground level. Trees should be limbed-up to provide 10 feet of vertical clearance over the trail within the trail corridor. Tree canopies should not obstruct pathway illumination. Hostile native landscaping material (e.g. vegetation with thorns) can be used in strategic areas to discourage unauthorized use and eliminate entrapment areas.

Lighting: Light quality is as important as the quantity. Poor lighting, whether too bright or not bright enough, can diminish safety. Where lighting is installed on trails, the illumination should be adequate to identify a face up to 20 yards away. The lighting should provide uniform coverage and good color rendition. The use of metal halide or light emitting diode (LED) lamps are recommended, as they provide excellent color rendition. Color rendition is especially important when describing identifying features such as hair, clothing, and vehicle color.

Maintenance: Signage should be placed at trailheads indicating a contact number to report graffiti, suspicious behavior, and maintenance issues. Add anti-graffiti application to retaining walls or other blank surfaces where appropriate. A maintenance schedule should be established to regularly monitor trail conditions.









Striping and Pavement Markings

Striping and pavement markings are particularly beneficial in areas of limited sight distance, high traffic areas, intersection approaches, and in areas where night time use is anticipated. All markings should be non-slip or non skid material, and shall be retroreflective per the MUTCD. High visibility thermoplastic is the most durable and visible material for trail applications.

Under most conditions, trail centerline markings are not necessary. However, per AASHTO guidelines, "on pathways with heavy peak hour and/or seasonal volumes, or other operational challenges such as sight distance constraints, the use of a centerline stripe on the path can help clarify the direction of travel and organize pathway traffic." (5.2.1) Centerlines can also reinforce trail user etiquette to travel on the right and pass on the left. A four to six inch dashed yellow centerline stripe should be used where passing is allowed, and a solid stripe should be used where passing is discouraged. Solid centerlines should be provided on tight or blind corners and on the approaches to roadway crossings.

Four inch solid white edgeline striping should be provided on trails with anticipated nighttime use. White edge lines can also be used on intersection approaches to highlight changing trail conditions, or to delineate a separation of path users (AASHTO, 5.4.1).

Pavement markings are commonly used to reinforce signs along a trail, such as separation of bicycles and pedestrians. However, pavement markings should not be used to replace signs altogether. Instead, pavement markings should be used to call additional attention to a possible problem area, such as trail access points, roadway intersections or bridges, or converging trails. Possible pavement markings for trails include the pedestrian and bicycle symbols, yield lines, stop bars, and the word markings "Stop," "Yield," and "Slow." Due to slower travel speeds, word pavement markings should not be elongated, should read in conventional order, and should be scaled minimally as to not overwhelm the pathway.

Trail Edge Definition

Vegetation, topography, ditches, fencing, railings, or walls may be used to clearly mark trail edges beyond the shoulder. These features can serve multiple purposes, including:

- » Providing visual separation/privacy screens
- » Delineating public space from private property
- » Discouraging the development of unauthorized foot trails
- » Separating users from hazardous drop-offs or adjacent noncompatible land use

Wildlife passage and safety for trail users are important factors in determining appropriate trail edge treatments. If separation is desired purely for privacy reasons, native vegetation buffers or the use of topography are recommended where possible. For separation to preventing trespassing or guard against hazardous slopes, consider the use of topography, ditches, semi-transparent fencing or railings, and hostile vegetation.

Drainage and Erosion Control

Drainage and erosion control are necessary to ensure a stable and low maintenance facility. Excessive soil erosion near a trail is usually the result of water collecting and flowing along the trail edge or onto the surface with enough volume and velocity to carry away soil. This impacts trail width, trail surface quality, and degrades adjacent habitat or downstream water resources. Designing the trail to follow natural land contours and planting low ground cover vegetation up to the edge of the trail help prevent and reduce erosion problems. Proper drainage for a trail can be ensured with a 2% cross slope for both the paved tread and trail shoulders. A maximum 1:6 slope is allowable for shoulders, but 2% is preferred. When managing storm water along all trails, use dispersed infiltration systems such as vegetated swales or over engineered storm water control structures such as storm drains and catch basins for reduced maintenance and improved aesthetic. For sections of trail where uphill water is collected in a ditch and directed to a catch basin, water should be directed under the trail in a drainage pipe of suitable dimensions.







Vegetative Screening

The presence or absence of vegetation and the type of vegetation present in a trail corridor impacts habitat quality, ecological sustainability, and the aesthetic experience for the trail user. Trees and shrubs on trails can serve as habitat for wildlife, stabilize erodible soils, and shelter trail users shade from the sun and rain. Vegetation is also an effective means of establishing trail boundaries while maintaining visual permeability. Strategic placement of bushes and plantings can deter users from using unauthorized foot trails, access points, or exits. When using vegetative screening, ground cover and shrub height should be a maximum of two feet above ground level to maintain an open line of sight on the trail. Similarly, trees should be trimmed to provide a minimum of eight feet of vertical clearance for trail circulation and to avoid obstructing trail lighting.

In locations where trees and shrubs are lacking and can be planted, native species are the most ecologically sustainable choice. As a group, native species require less maintenance than horticultural plantings and often provide wildlife with a food source. Topography and soil moisture regime largely determine where different plant species occur. Competing invasive vegetation should be removed regularly and replaced with mulch to conserve water. Trail vegetation should be selected and placed to provide seasonal comfort: shade in the warmer months and sunlight in colder months. Seeds and plants should be placed either right before or during the rainy season to take advantage of seasonal rainfall (spring and fall). Note that larger plants require more water to survive than seeds and smaller plants. Fertilizing native plants is only necessary in extreme cases when the condition of the soil is in need of repair.

Railings and Fences

Railing and fences are important features on bridges, some boardwalks, or in areas where there may be a hazardous drop-off or incompatible adjacent land uses. By AASHTO standards, where there is a side slope or considerable vertical drop within six feet of the edge of the trail, a 42 inch safety rail is required:

- » Slope is greater than or equal to 3:1 and drop of six feet
- » Slope is greater than or equal to 2:1 and drop of four feet
- » Slope is greater than or equal to 1:1 and drop of one foot

Railings may need to be as tall as 48 inches where more hazardous conditions exist, such as a bridge over a highway. At a minimum, railings and fences should consist of a horizontal top, bottom, and middle rail. The middle railing functions as a 'rub rail' to reduce the risk of bicycle handlebars getting caught by a railing. Middle rails should be located 36 inches to 44 inches above the finished grade. The bottom rail should be two inches above finished grade to allow for drainage. Openings between horizontal or vertical members on railings should be small enough that a six inch sphere cannot pass through in the lower 27 inches. This is to prevent children from falling through the railing openings. For the portion of railing higher than 27 inches, openings may be spaced such that an eight inch sphere cannot pass through. Local, state, and/or federal regulations and building codes should be consulted to determine when it is appropriate to install a railing and comply with current standards.



CORRIDORS

Ideal locations for trails are often found along existing corridors used for natural areas, utilities, or railroads. Each of these corridors presents additional design considerations for trails:

- » **Riparian**—preservation of wildlife and natural habitat
- » Utility—adequate clearances to equipment
- » Rail—safety considerations adjacent to active rail lines

Riparian Corridors

Riparian corridors often offer substantial recreational and open space preservation opportunities. These corridors include rivers and streams, drainage facilities, and wetlands (where environmentally feasible). All trails constructed within riparian corridors should be studied for storm water impacts, wildlife habitat impacts, and floodplain development impacts. All trails within floodplain areas will require adequate environmental permits from local floodplain administrators. Local requirements for storm water and watershed buffers should be consulted to determine acceptable uses and buffer widths.

Trail Location: Trails in riparian corridors should follow the contours and avoid fall lines, which are prone to erosion and generally cannot be maintained over time. Existing native vegetation should be preserved to the extent possible to limit soil erosion and ecological impacts. Trails should be constructed at the maximum practical distance from streams, and locations immediately adjacent to or abutting stream banks should be avoided. Trails constructed near streams should include restoration projects where feasible. Restoration projects commonly involve reshaping of the floodplain to reduce bank angles and heights to allow the stream to access its floodplain. Trail locations in wetlands should be avoided. If wetlands must be crossed, choose the narrowest crossing point and use low impact elevated tread structures for trail construction, such as boardwalks and bridges to preserve these fragile ecosystems.

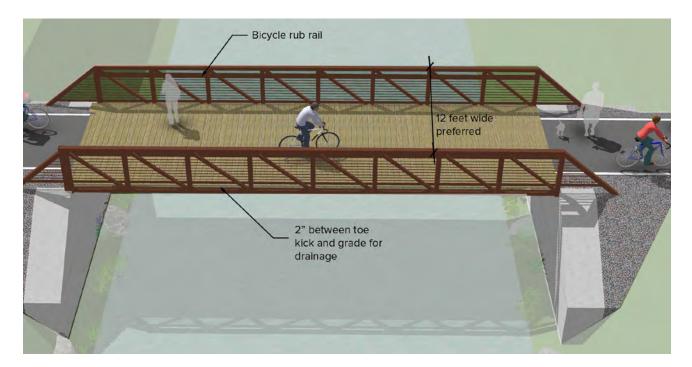
Surface Materials: Other than wetland areas, concrete is the recommended surface treatment for trails prone to flooding due to its superior durability and lower maintenance requirements. Permeable paving is not recommended in floodplain areas or areas without proper drainage. Sheet flow and sediment transport clog permeable pavement pores and will require vacuuming after all storm events. Gravel or crushed stone fines should not be used in riparian areas prone to flooding as these materials have very low cohesiveness and erode easily, contributing to increased sediment in streams.



Boardwalks and Bridges: Where trails cross over sensitive natural or inundated areas such as small creeks and wetlands, boardwalks and bridges should be used to limit the potential for environmental impact. Note that local, state, and federal permits will be likely be required for any construction in wetlands. Consult a structural engineer for member sizing and post footing design of these structures. Common boardwalk foundations consists of marine-grade timber posts or auger piers (screw anchors) which provide greater support and durability. The evaluation of boardwalk footings should include uplift as well as loading consideration for flood events.

Boardwalks range in length and can span as little as 10 feet or stretch for longer distances depending on site conditions. Boardwalk clear span width should be a minimum of 10 feet when no rail is used. 12 feet is preferred in areas with higher anticipated use and whenever railings are used. Bridges are used where greater span lengths are required and when the objective is to reduce base flood elevations. Boardwalks are usually constructed of timber, concrete, or recycled plastic decking. Recycled systems such as Trex[®] are popular for their material durability, however they have structural limitations. Modular concrete boardwalk systems are gaining popularity due to their low-impact installation methods and durability within wet areas. Permatrak[™] is a system being used in some communities in the state and by the National Park Service. In choosing boardwalk material, careful consideration should be given to minimize slippery decking surfaces following storm events. A topcoat of non-skid paint, sandy compounds, or a light asphalt overlay can be effective on timber decking. Concrete is the most reliable non-skid surface.

On boardwalks, typically a six inch curb rail is recommended. However, a 42 inch guardrail is required at locations where there is a 30 inch or greater difference in the low water bridge elevation and the ground elevation below. Railings will also be required for bridges. Refer to the previous section for best practice design for fences and railings.



Utility Corridors

Underground and above-ground utility corridors can potentially accommodate trails. Utility companies benefit from this arrangement by having an easily accessible route to their utility service. Review each utility's policy and construction specifications for repair, access, and corridor maintenance requirements. The trail may need to be closed at certain times when utility repairs are necessary. Note that utility companies will likely require specific design guidelines, may determine trail routing and alignment, and may impose landscaping limitations. All trails in utility corridors require acquisition of an easement from the current title owner of the land.

Trail width: 10 feet of width is required for maintenance vehicle access. In sewer easements, the edge of trail should be at least 10 feet from manhole rims. For electrical utility corridors, a minimum separation of 25 feet is required between the trail and any associated electrical equipment (such as guy wires, power poles, and towers).

Trail amenities: Structures, which include signage, lighting, and benches, are typically restricted within utility easements. Review each utility's policy.



Active Rail Corridors

Rails-with-trails are multi-use paths adjacent to active railroads. It should be noted that several constraints can impact the feasibility of rail-with-trail projects. In some cases, corridor space needs to be preserved for future planned freight, transit or commuter rail service. In other cases, limited right-of-way width, inadequate setbacks, concerns about safety/trespassing, and numerous crossings may affect a project's feasibility.

Fencing: Railroads may require fencing with rail-with-trail projects due to concerns with trespassing and security. Requirements can vary based on the volume and speed of train traffic on the adjacent rail line and the setting of the shared use path, i.e. whether the section of track is in an urban or rural setting. If required, fencing should be a minimum of five feet in height with higher fencing than usual next to sensitive areas such as switching yards.

Setback: Trail setbacks from the active rail line will vary depending on the speed and frequency of trains, and available right-of-way. Separation greater than 20 feet will result in a more pleasant trail user experience and should be pursued where possible.



ACCESS + INTERSECTIONS

Roadway and trail crossings can create potential conflict points; however, well-designed crossings can mitigate many operational issues and provide a higher degree of safety and comfort for all users. Generally speaking, trail facilities require additional considerations due to the higher travel speed of bicyclists versus other trail users. The sign types, pavement markings, and treatments will vary based on the roadway type the trail crosses. Proper signage and pavement markings alerting trail users of at-grade crossings must also be utilized. This section details crossing treatments for the following contexts:

- » Trail Entry Control
- » Local or Collector Street Crossings
- » Arterial Crossings
- » Intersections with other Trails
- » Railroad Crossings
- » Underpasses and Overpasses

Trail Entry Control

A variety of physical barriers and design strategies are employed to restrict motor vehicle access to trails. A common treatment is the bollard post; however the bollard presents numerous safety hazards to trail users, and their use should be discouraged. Potential hazards include inconsistent and unpredictable placement, broken fold-down posts that often do not fold back up, removable posts lacking flush sleeves, or removable posts with theft preventing chains that dangle onto the trail surface. If bollards are used at intersections and access points, they should be adequately spaced and brightly colored and/ or supplemented with permanent reflective materials to be visible at night. Removable barriers should leave a flush surface to prevent tripping hazards.

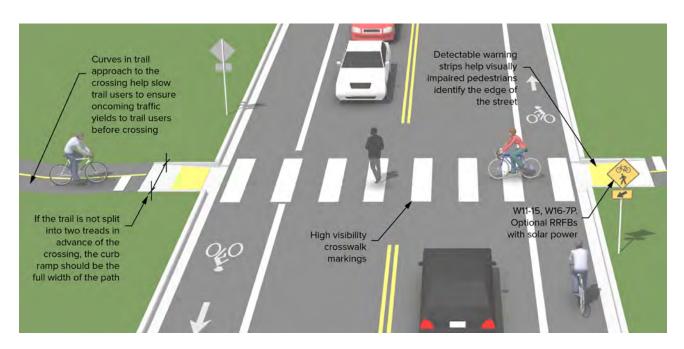
Physical barriers should only be considered when other measures do not adequately control unauthorized vehicles, or where the danger posed by unauthorized vehicles exceeds the safety risks to trail users by the barriers themselves. Alternative design strategies to control shared-use path entry include signage indicating "No Motor Vehicles" (MUTCD R5-3) placed at the trail access point, separating the trail into two treads in advance of the crossing so that the curb cuts are not conducive to motor vehicle access, and including a landscaped median to act as an access barrier. Note that there should be a minimum of five feet clearance for each tread for trail user access.



Local and Collector Street Crossings

Marked Unsignalized Crossings

The design of trail crossings of local and collector streets depends on an evaluation of vehicular traffic, sight lines, trail volumes, use patterns, vehicle speed, road type, road width, and other safety issues such as proximity to major attractions. An unsignalized crossing typically consists of a marked crossing area, with signage and other markings to slow or stop traffic. Marked crosswalks statistically increase motorists yielding the right-of-way to pedestrians (Mitman). High-visibility crosswalk markings are the preferred marking type (FHWA) as transverse lines are essentially not visible when viewed from a standard approaching vehicle (McGrane). Locate crosswalk markings out of wheel tread when possible to minimize wear and maintenance costs. Stop or Yield lines may be used on the roadway 25 feet in advance of crosswalks where right-of-way priority is given to path users. A yield line must be paired with a Yield (R1-2) or Yield Here To Pedestrians (R1-5) sign. In roadway Yield to Pedestrians (R1-6) signs may be used along the centerline point of a crosswalk. On the trail, add detectable warning strips at the roadway crossing to help visually impaired pedestrians identify the edge of the roadway.



Median Refuge Islands

When space is available, using a median refuge island can improve user safety by providing pedestrians and bicyclists space to perform the safe crossing of one side of the street at a time. Refuge islands minimize user exposure by shortening crossing distance and increasing the number of available gaps for crossing. The waiting area should eight feet wide or wider to allow for a variety of bicycle types and multiple trail users. The refuge island must be accessible, preferably with an at-grade passage through the island rather than ramps and landings. To promote yielding to trail users, the median safety island should be designed to require horizontal deflection of the motor vehicle travel lanes. If a refuge island is landscaped, the landscaping should not compromise the visibility of trail users crossing in the crosswalk. Consider the use of landscaping with low-growing, minimally-spreading native shrubs and ground cover that require little maintenance and are no higher than 18 inches. Note that refuge islands may collect road debris and may require somewhat frequent maintenance. For separated use trail crossings, the crossing should maintain user separation. The pedestrian path should use crosswalk markings and the bicycle path should use green colored pavement.



Rectangular Rapid Flashing Beacons (RRFBs)

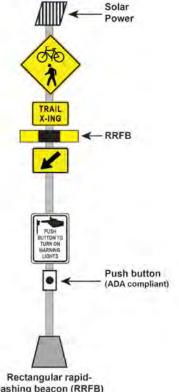
RRFBs alert drivers that path users wish to cross and promote yielding. This treatment provides similar yielding rates to that of a conventional traffic signals. Passive (loop) detection technology or active push buttons can activate warning beacons for oncoming path users. Push buttons should be no higher than four feet above the ground for ADA accessibility.

Bulb-outs

Curb extensions, or bulb-outs, shorten crossing distance and position users in a visible location. They also visually narrow the roadway to slow motor vehicles approaching the crossing.

Raised Crosswalks

Vertical deflection can slow drivers to prepare them to yield to trail users. Raised crossings should raise six inches above the roadway with a steep 1:6 (16%) ramp. Advisory speed signs may be used to indicate the required slow crossing speed.









Arterial Crossings

Signalized crossings provide the most protection for users through the use of a red-signal indication to stop conflicting motor vehicle traffic. Trail crossings within approximately four hundred feet of an existing signalized intersection with crosswalks are typically diverted to the signalized intersection to avoid traffic operation problems when located so close to an existing signal. If possible, route users directly to a signalized crossing. If the diversion to a signalized intersection is perceived out of the direct line of travel, trail users can be expected to cross at unmarked locations, which is hazardous for all users. If no signalized crossings are within the vicinity of the trail, use an appropriate crossing treatment as described in the previous section.

Signalized crossings are normally activated by push buttons or detection loops. The maximum delay for activation of the signal should be two minutes, with minimum crossing times determined by the width of the street.

Intersections with Other Trails

At the intersection of two trails, users should be aware that they are approaching an intersection and of the potential for encountering different user types from a variety of directions. This can be achieved through a combination of regulatory and wayfinding signage and unobstructed sight lines.

Trails should be aligned to intersect at 90° angles when possible, or consider off-setting the trail intersection and creating two three-way intersections rather than one four-way intersection. Merging paths should be avoided, and the connection should be configured as a T-intersection. Where merges are unavoidable or necessary for other reasons, an open sightline of 75 feet from the merge point should be provided between paths.

A roundabout may be a viable design option to slow speeds and clarify expected operation. If a roundabout design is used, consider the use of landscaping with low growing (no more than 24 inches high) and minimally spreading native shrubs and ground cover that require little maintenance and provide clear sight lines. Other material can be used within roundabouts such as boulders and public art to discourage shortcut paths through the central island as long as clear sight lines under three feet are maintained.

Railroad Crossings

Locations where trails must cross railroad tracks are problematic for pedestrians, particularly for those with mobility or vision impairments. Wheelchair casters and bicycle wheels can easily get caught in the flange-way gap, and slippery surfaces, degraded rough materials, or elevated track height can cause tripping hazards for all users. Angled track crossings also limit sight triangles, impacting the ability to see oncoming trains.

The crossing should be as close as practical to perpendicular with tracks. Ensure clear lines of sight and good visibility so that trail users can see approaching trains. The crossing must be level and flush with the top of the rail at the outer edge and between the rails. Flange-way gaps should not exceed two and a half inches (three inches for tracks that carry freight.) Concrete or rubber is the best material for pedestrian railroad crossings.

Bells or other audible warning devices may be included in the flashing-light signal assembly to provide additional warning for pedestrians and bicyclists. In areas with frequent train movements, pedestrian automatic gate arms or manually operated swing gates may help control trail user movements when a train is approaching.

Crossing design and implementation is a collaboration between the railroad company and the highway agency. The railroad company is responsible for the cross-bucks, flashing lights and gate mechanisms, and the highway agency is responsible for advance warning markings and signs. Warning devices should be recommended for each specific situation by a qualified engineer based on various factors including train frequency and speed, path and trail usage, and sight distances.

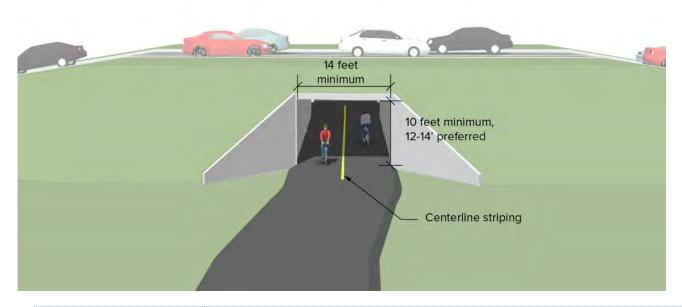




Undercrossings

Undercrossings can provide critical trail system links in areas separated by barriers such as railroads and highway corridors. In most cases, these structures are built in response to user demand for safe crossings where they previously did not exist. There are no minimum roadway characteristics for considering grade separation. Undercrossings must be a minimum of 14 feet wide, and greater widths are preferred for undercrossing lengths of over 60 feet. For maintenance vehicles, there must be a 10 foot minimum vertical clearance.

The undercrossing should have a centerline stripe, even if the rest of the path does not have one, to discourage passing movements. Safety is a major concern with undercrossings as path users may be temporarily out of sight from public view and may experience poor visibility. To mitigate safety concerns, an undercrossing should be designed to be spacious, well-lit, equipped with emergency phones at each end and completely visible for its entire length from end to end. Potential problems of undercrossings include conflicts with utilities, drainage, flood control, and vandalism.



Overcrossings

Bicycle and pedestrian overcrossings can be used to continue trails over large barriers such as deep canyons, waterways, or major roadways or rail yards. Overcrossings require a minimum of 17 feet of vertical clearance to the roadway below versus and elevation difference of 12 feet for an undercrossing. This results in greater elevation differences and much longer access ramps for bicycles and pedestrians to negotiate. Access ramps to overcrossings are limited to 5% slopes per the ADA. Level resting landings much be provided at four hundred foot intervals. Steeper grades will require more frequent landings.







AMENITIES

When designing functional, attractive, and inviting trails, the small details matter. Elements such as a lighting fixtures, public art, benches, and other amenities help create a unique identity for a trail. It is important that these details work together to create a complete experience for all users. This section discusses the following amenities:

- » Minor Access Points
- » Major Trailheads
- » Art
- » Lighting
- » Signage and Wayfinding





Minor Access Points

Trail access points can occur at parks, residential developments, or other logical points of interest. Any access point to the trail should be well-defined with appropriate signage designating the corridor as a shared-use trail and prohibiting motor vehicles. Well defined trail access points can prevent the development of informal "social" trails which can follow poorly executed routes and trample floodplain vegetation or sensitive areas. Typically, trail access points have very minimal infrastructure, possibly including a small parking lot, drinking fountains, benches, trash and recycling receptacles, an information kiosk, or wayfinding signage about the trail network.

Trailheads

Trailheads should be established near large residential developments, commercial areas, and transportation nodes to be highly accessible to the surrounding community and to the trail system. There is no prescription for the frequency of trailheads. Conduct user counts, vehicle counts, and surveys across the trail network at peak hours of use to determine parking and access demand. There may be opportunities to locate trailheads at existing public facilities or created through partnerships with owners of existing parking areas. Trailheads can include many amenities such as: automobile parking, bicycle parking, comfort stations, drinking fountains, trash and recycle receptacles, dog waste stations, bicycle repair stations, wayfinding and informational signage shelters, and picnic areas. Trail amenities should be placed no higher than four feet off the ground for accessibility. Trailhead signage should provide accessibility information, such as trail gradient/profile, distances, tread conditions, location of drinking fountains, and rest stops.

Parking

Major trailheads can provide parking for 10 to 40 vehicles, depending on availability of land and anticipated level of use of the trail. Minor access points can have small lots accommodating up to 10 vehicles. Typically trailhead parking lots are paved to accommodate vehicles year round. Parking lots should be located in existing disturbed areas to minimize environmental impacts, and vegetative screening can be used to reduce the visual impact of parking areas. Consider one-way vehicle circulation to reduce parking area size. Where major trailheads are located in or near neighborhoods, provide user access from local streets crossing the trail, and possibly install "No Parking" signs to minimize parking impacts on local streets.

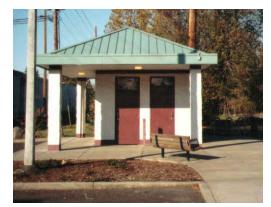
Trailheads should provide emergency and maintenance vehicle access and turnaround. Place ADA accessible parking spaces near the site's accessible route, at a rate of one accessible space per 25 standard spaces. ADA parking spaces and access aisles should not exceed 2% slope in any direction, and the remainder of the lot surface should never exceed 5% slope in any direction.

Comfort Stations

There are a number of factors to consider before locating comfort stations, including available land, size of trailhead, existing comfort station facilities, utility availability, maintenance vehicle access, and user need. Prior to undertaking any comfort station building design, consultation with a structural and civil engineer, state building codes, health and safety codes, ADAAG and Public Rights-of-Way Accessibility Guidelines (PROWAG) standards, and local development codes is required.

The space required for each comfort station building depends on the number of toilets to be provided. Prioritize location of comfort stations at trailheads within existing parks and review gaps for placement at other trailheads or locations within the system. If other comfort station facilities are available within the park and trail system, use wayfinding signage along trails to direct users appropriately. Comfort station structures should be located adjacent to vehicular access points for security, maintenance, and access to water and sewer. Composting toilets should be considered in remote areas or where utility connections are unavailable. Always provide comfort station facilities outside of flood-prone areas.

Comfort stations should also make use of natural light and ventilation to the extent possible, and should be constructed of durable materials resistant to vandalism. Bicycle parking should be provided close to comfort station structures so that bicyclists do not have to prop unsecured bicycles against comfort station buildings.

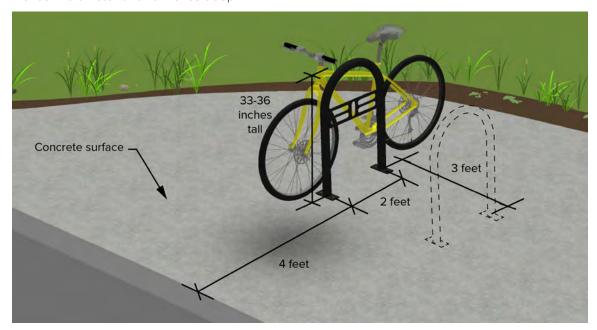


Bicycle Parking

Bicycle parking should be convenient, highly visible, and easily accessible from the trail. Bicycle parking should be located at comfort stations, select trailheads, points of interest, and rest stops. Signage may be desired to direct users to designated bicycle parking areas. Bicycle racks should be located on a hardscape surface and not be located directly in front of other trail amenities. Ideal rack location is parallel along the trail approach, no more than 25 feet from trail ingress/egress points and at least five feet from the edge of trail to avoid trail user conflict. Consideration should be given to avoid emergency ingress/egress, service access, and vehicular conflict areas.

The bicycle rack should support the bicycle in at least two places, preventing it from falling over, and the rack should allow locking of the frame and one or both wheels with a U-lock. Consider bicycle racks that resist cutting, rusting, bending, and deformation. A "staple" rack is an ideal rack type as it is easily recognizable, can accommodate bicycles of all sizes, and allows secure locking techniques.

When installing racks, ensure the rack is securely anchored to ground to prevent bicycle theft. On concrete surfaces, use .375 inch anchors to plate mount and shim as necessary to ensure vertical placement. When installing racks on pavers or other non-stable surfaces, embed the rack into the material base with core holes no less than three inches in diameter and 10 inches deep.



Bicycle Repair Stations

Bicycle repair stations are small kiosks designed to offer a complete set of tools necessary for routine bicycle maintenance and minor repairs. Popular locations for placement include major or minor trailheads and rest stops trails. Bicycle repair station tools are secured by high security cables, but will still be an attractive target for theft. Kiosks should be placed in areas of high activity to reduce potential vandalism. Consider grouping repair stations together with other amenities such as seating, bicycle parking, and drinking fountains at a rest stop.

Drinking Fountains

Drinking fountains provide opportunities for users to replenish fluids and potentially extend their trip. Locate drinking fountains near comfort stations, at trailheads, parks, and other public gathering places along the trail. Drinking fountains should be placed at least five feet from trail edge, and no higher than four feet off the ground to be ADA compliant. Drinking fountains should be placed on a well-drained surface (2% sloped concrete slab). Consider the use of durable and vandalism-resistant materials such as steel or stone.

Seating

Seating along trails provides a place for users to rest, congregate, contemplate, or enjoy art, nature, and interpretive elements throughout a trail. Benches can be designed to create identity along the trail or be strictly utilitarian. Picnic tables provide places for trail users to congregate for meals or to relax. Locate seating along the trail at one mile intervals where appropriate, or where there is a demand by users. Seating within half-mile of trailheads is recommended. Provide benches and picnic tables in areas that provide interesting views, are close to an interpretive element, and offer shade or shelter from wind. Benches and other site furniture should be located a minimum of three feet from the edge of the trail, a minimum of four feet from comfort stations and drinking fountains, or a minimum of two feet from trash and recycling receptacles, lighting poles, and sign posts. Wheelchair access should be ensured by providing compact, level surfaces at picnic tables and alongside benches. To prevent vandalism, seating should be securely anchored to hardened surfaces such as concrete or asphalt. Consider durable or native materials such as boulders that are vandalism-resistant.











Trash Receptacles

Trash and recycle receptacles are necessities for trail maintenance and appearance. Trash and recycling receptacles should be prioritized along more heavily used trail sections, at each trailhead, and each seating area (one per every one picnic table, one per every two benches). Placement of other receptacles will depend upon the location of concessions, facilities and areas of group activities. Receptacles need to be accessible to maintenance personnel and should be set back a minimum of three feet from the edge of the trail. For recycling receptacles, signage should be provided indicating which recyclables are accepted. Consider including educational signage about the importance of recycling and the environmental benefits.

Receptacles should be selected for the expected trash/recycling amount, maintenance and collection program requirements, durability, and animal-resistance. In areas with adequate sunlight, consider compacting receptacles for trash and recyclables that use smart technology.

Art

Including public art on trails can engage the local community and create an identity for the trail. Public art can be aesthetic or functional, doubling as seating or shelter, and depending on the scale and form, an activity in itself to serve as a public attraction. Memorable art installations can act as landmarks and serve as valuable wayfinding tools. Public art can also be a used as an interpretive device for telling a compelling story about the trail and area history.

Art can be placed at one or multiple locations along trails. Provide art displays on trails with anticipated high use and user exposure. Key locations such as turns or landscape changes could be areas to highlight through the inclusion of public art. When appropriate, artists can be engaged as part of the corridor planning and development process.

Artists should be encouraged to produce artwork in a variety of materials for sites along the corridor. Consider developing furnishings and amenities with artistic intent and providing continuity between elements while maintaining the unique styles of multiple artists. Community-based art and temporary installations are also effective ways of integrating public art into a trail.

Lighting

Lighting for trails should be analyzed on a case-by-case basis with full consideration of the maintenance commitment lighting requires. Lighting can improve visibility for day time use in tunnels and underpasses, and night-time use along the trail and intersection crossings. Lighting can provide extended operation hours for all trail users, which should be considered particularly during winter months when trips to and from work are often made before sunrise and after sunset. Dependent upon trail hours, consider lighting in urban and/or commercial land use areas. Recommended locations for lighting include trailheads and parking areas, comfort stations, trail intersections, entrances and exits of bridges and underpasses and in tunnels, and street crossings. Lighting spacing along trails depends on the type and intensity of lights, though thirty to fifty feet spacing is common for pedestrian scale lighting. Solar powered lighting is available where utility collection is difficult or when alternative energy sources are desired. Lighting is generally not appropriate for trails in remote areas, trails with low use, or where there is little to no development.

Lighting should respond to the conditions of the site and meet the minimum standards set forth by the Illuminating Engineering Society of North America (IESNA). Full cut-off fixtures, or luminaries with no direct uplight, should be used to reduce light pollution. These fixtures also limit direct glare or excessive illumination on to adjacent properties, streets, or sidewalks.

Trail lighting should be at pedestrian scale, but avoid light fixtures at eye level that could impair visibility. Pedestrian scale lighting is typically about 15 ft tall, has lower levels of illumination, and closer spacing to avoid dark zones between lights. Pedestrian scale light fixtures are typically high pressure sodium vapor or metal halide lamps, which produce better "white light" than sodium vapor lamps. LEDs are the preferred lighting bulb as they offer a wide range of light levels and can reduce long term utility costs. Average horizontal illumination levels are 0.5 to two foot candles or five to 22 lux (AASHTO, Section 5.2.12).







Signage and Wayfinding

A comprehensive system of signage ensures that information regarding the safe and appropriate use of all facilities, both on-road and on shared-use paths. The bicycle and trails networks should be signed seamlessly with other alternative transportation routes, such as bicycle routes from neighboring jurisdictions, trails, and local transit systems. Signage includes post- or pole-mounted signs and pavement markings. Signage is further divided into information signs, wayfinding signs, regulatory signs, and warning signs. All signage should conform to the Manual on Uniform Traffic Control Devices and the American Association of State Highway Transportation Official Guide for the Development of Bicycle Facilities.

Wayfinding Signage

The ability to navigate through a city or across a trail network is informed by landmarks, natural features, and other visual cues. Wayfinding signs indicate:

- » Direction of travel
- » Location of destinations
- » Designated bike routes or trails

Wayfinding signage serves many purposes, including familiarizing users with a trail system, helping users and emergency responders identify locations, marking designated bike routes, and labeling trail access points. Wayfinding signs also visually cue motorists that they are driving near a trail corridor and should use caution. There are three general types of wayfinding signs:

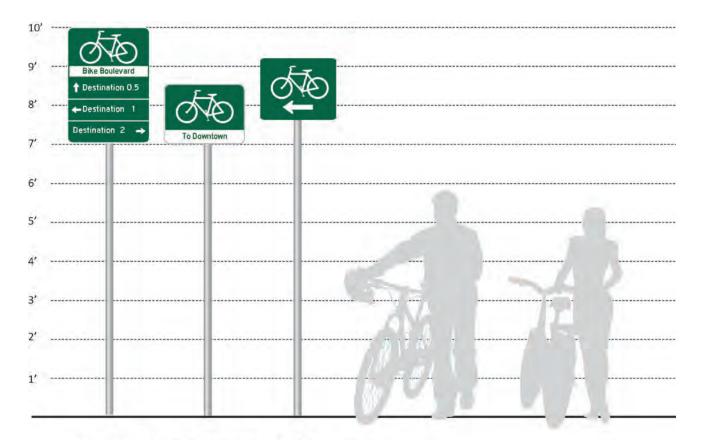
Decision Signs mark the junction of bikeways and/or trails and inform users of the route options to access key destinations. Destinations, arrows, distances, and travel times are included on decision signs.

Confirmation Signs indicate to bicyclists that they are on a designated bikeway and make motorists aware of the bicycle route. This signage can indicate a single regional destination and distance/time, but does not include arrows or a full list of destinations.

Turn Signs indicate with arrows where a bikeway turns from one street onto another street or trail. This signage can be used in conjunction with pavement markings.

Section 1A.12 of the MUTCD establishes the general meaning for sign colors. Green is the color used for directional guidance and is the most common color of bicycle wayfinding signage in the US. Custom community wayfinding signs may use other MUTCD allowed colors, and include pedestrian-oriented travel times and designs such as local town logos or sponsorship branding.





Decision Confirmation Turn

Sign Placement

Signs are typically placed at decision points such as the intersection of two or more bikeways or trails, and at other key locations leading to and along bicycle and pedestrian routes. It can be useful to classify a list of destinations for inclusion on the signs based on their relative importance to users throughout the area. A particular destination's ranking in the hierarchy can be used to determine the physical distance from which the locations are signed. For example, primary destinations (such as the downtown area) may be included on signage up to five miles away. Secondary destinations (such as a transit station) may be included on signage up to two miles away. Tertiary destinations (such as a park) may be included on signage up to one mile away.

Decision Signs are placed on the near-side of intersections in advance of a junction with another bicycle route, and along a route to indicate a nearby destination.

Confirmation Signs are placed every quarter to half mile on offstreet facilities and every two to three blocks along on-street bicycle facilities, unless another type of sign is used (e.g., within one hundred fifty feet of a turn or decision sign). Confirmation signs should be placed soon after turns to confirm destination(s). Pavement markings can also act as confirmation that a bicyclist is on a preferred route.

Turn Signs are placed on the near-side of intersections where bike routes turn (e.g., where the street ceases to be a bicycle route or does not go through). Pavement markings can also indicate the need to turn to the bicyclist.

Regulatory Signs

Regulatory signs give a direction that must be obeyed, and apply to intersection control, speed, vehicle movement, and parking. The examples below are types of regulatory signs that could be integrated into a signage program. Smaller scale signs or plaques may be used for trail applications. See the MUTCD 9B for a detailed list of regulatory sign application and guidance.

Etiquette Signage

Informing trail users of acceptable etiquette is a common issue when multiple user types are anticipated. Yielding the right-of-way is a courtesy and yet a necessary part of a safe trail experience. The message must be clear and easy to understand. The most common trail etiquette systems involve yielding of bicyclists to pedestrians. Trail etiquette information should be posted at access points and periodically along the trail.

Interpretive Signage

Interpretive displays provide trail users with information about the surrounding environment or site, wildlife, vegetation, history, and the significance of cultural elements. Interpretive displays may also be combined with public art and sculpture opportunities along the trail. Consider the character of the trail and surrounding elements when designing these signs. Work with experts specific to the information you are conveying on the signs such as historians, ecologists, or artists. Separate interpretive signage panels from the main trail circulation so that users can stop and not impede traffic Consider including interpretive signage at rest stops or areas of congregation. Panels must be ADA accessible. Consider use of technology for interpretation.

Informational Kiosks and Message Centers

Kiosks and message centers provide trails users with information to orient themselves, learn of areas of interest, read the rules and regulations of the trail system, and find the hours of operation. Kiosks should be installed at each major and minor trailhead. When locating kiosks next to parking facilities, set the units back far enough from traffic and protect the support posts or structure with appropriately sized barriers. Evaluate the use of emerging technology options for implementation of information and messages as part of the signage program.







MAINTENANCE

Regular, routine maintenance on a year-round basis will not only improve trail safety, but will also prolong the life of the trails. Maintenance activities required for continuous, safe trail operations should always receive top priority. This section discusses:

- » General Trail Maintenance
- » Winter Trail Maintenance
- » Temporary Trail Closures



General Trail Maintenance

A high level of trail maintenance is critical to the overall success and safety of the trail system. Maintenance includes such activities as pavement stabilization, landscape maintenance, facility upkeep, sign replacement, fencing, mowing, snow removal, litter removal, painting, and pest control. However, the effects of a good maintenance program are not limited to the physical and biological features of the trails. A high standard of maintenance is an effective way of promoting use of trails, and is necessary to preserve positive public relations with adjacent land owners. Moreover, the psychological effects of good maintenance can be an effective deterrent to vandalism, litter, and encroachments. A successful maintenance program requires continuity and a high level of citizen involvement. Scheduled trail Inspections and volunteer patrols can prevent maintenance issues and ensure rapid identification of problems. In addition to scheduled inspections, the following table is a list of maintenance needs and suggested frequency of completion:

MAINTENANCE TASK	SUGGESTED FREQUENCY
Major damage response (fallen trees, washouts, flooding)	Immediately
Site furnishings; replace damaged components	As needed
Graffiti removal	Weekly; immediately as needed
Shrub/tree irrigation for introduced planting areas	Weekly during summer months until plants are established
Trash disposal	Weekly during high use; twice monthly during low use
Litter pick-up	Weekly during high use; twice monthly during low use
Fencing repair	Inspect monthly for holes and damage, repair immediately
Inspections	Daily routine inspections; seasonal detailed inspections (4 times/year); immediately after wind storms or flood events
Pavement sweeping/blowing	As needed; before high-use season
Culvert inspection	Before rainy season; after major storms
Maintaining culvert inlets	Inspect before onset of wet season
Lighting repair	Monthly; annually
Shoulder plant trimming (weeds, trees, branches)	Bi-annual (Fall or Spring)
Sign repair/replacement	1-3 years
Pavement markings replacement	1-3 years
Introduced tree and shrub plantings, trimming	1-3 years
Pavement sealing; pothole repair	5-15 years
Comfort station maintenance	Daily

Trail Surface

To maintain a smooth trail surface, cracks, ruts, potholes, and water damage will have to be repaired periodically. The trail surface should be swept regularly to keep them free of debris, especially broken glass and other sharp objects, loose gravel, leaves and stray branches. Sweeping should be scheduled based on location, for example, path segments in forested areas will tend to accumulate plant litter such as leaves and pine needles and should be swept more frequently in order to maintain safe surface conditions.



Drainage

Where drainage problems exist along the trails, ditches and drainage structures will need to be kept clear of debris and periodically cleaned or flushed to prevent trail wash outs. Checks for erosion along the trails should be conducted immediately after any storm that brings flooding to the trail area.

Vegetation Management

In general, plantings alongside a trail should allow trail users clear views of their surroundings to avoid creating the feeling of an enclosed space. Understory vegetation along trail corridors should not be allowed to grow higher than three feet, and any overhanging branches over the trail should be pruned to a minimum vertical clearance of 10 feet. Tree canopies may also need to be trimmed for light fixtures or overhead utilities. Thus vegetation management will require a regular schedule of mowing, pruning, trimming, plant replacement, and tree removal as needed. Tree and plant species along a trail should be selected to minimize vegetative litter and prevent root uplifting of the trail pavement. To maintain ideal plant selections, trails also require brush removal during installation to prevent invasion of unwanted plants, and regular weeding.

Facilities and Signs

Trailhead amenities and trail signs will require regular maintenance and visual inspections. Facilities including parking lots, picnic tables, trash receptacles, and comfort stations will need scheduled cleanings. Signs such as informational kiosks, directional signs, or distance markers should be periodically checked for graffiti or damage to the sign face or post.

Graffiti

Graffiti not only affects trail aesthetics; it can also encourage other undesired behaviors, such as littering, crime, and more graffiti. The appearance of graffiti and litter is perceived as an indicator that an area is in decline. Rapid removal of graffiti and illegally dumped materials is critical to maintaining a safe facility and conveying to the community that the trail is cared for and regularly observed. Signage should be posted at trailheads indicating a contact number to report graffiti and illegal dumping.



Winter Maintenance

Paved multi-use trails require significant public investment and should be used to their fullest potential year-round. Fortunately, the fleeting nature of snow allows for flexibility and creativity in dealing with it from storm to storm and season to season. The decision to clear or leave a trail unmaintained should be the result of a public decision making process involving officials, residents, and stakeholders. The decision will necessarily be based on the demand for different activities on each trail segment and the physical and budgetary constraints associated with winter pathway maintenance. Any changes to winter maintenance operations along paved paths should be made by early spring so that the appropriate changes can be made to maps and signage in time for the upcoming winter season. Appleton should produce a winter trails maintenance plan with prioritized trails that will require snow removal.

Snow Removal

Snow removal should be considered for trails that provide key connections to bicycle or pedestrian destinations. If clearing a trail or segment of trail will help to improve winter pedestrian or bicycle safety, serious consideration should be given to snow removal, unless it would place undue burden on city resources. If it is decided that a segment of trail is to be cleared in the winter, every effort should be made to ensure that the trail remains free of ice to prevent slipping injuries. This will likely require ongoing inspection between snow events to ensure that ice buildup and drifting snow is removed promptly. Salt, sand, or de-icing solution should only be used if special circumstances warrant; such as severe ice buildup or freeze thaw cycles on the trail surface. Salt or de-icing solutions will create runoff damaging to vegetation, and sand should be used in limited amounts for traction concerns and because sand can become stuck in a bicycle's gears and chain. Gravel application should be avoided as the

smaller tire width of bicycles does not adequately grip to larger aggregate and may cause cyclists to lose control and fall. Snow stakes should be used along all paths intended for clearing in order to ensure that only the paved surface is cleared and the adjacent vegetation is not damaged. Note that snow removal on some trails can also accelerate the need for major trail maintenance or reconstruction during summer months.

No Snow Maintenance

As snow removal is a significant expense, in some cases it may be preferable to not provide snow maintenance. The decision not to maintain a trail during the winter should be made as part of an open public process that clearly presents the mobility, recreational, and budgetary impacts of that decision. Snow can act as an insulating layer and help prevent pavement heaving or other damage. However, as the snow melts in the spring, paved paths can emerge from winter operations covered in dirt and debris. Because residents and visitors will begin using these facilities in the spring, every effort should be made to sweep and clear these facilities as early as practical. Lingering patches of snow should be cleared to provide a safe smooth surface for bicyclists and pedestrians. Signage along paved paths can also sustains significant damage from natural snow movement. Any signage that is missing should be replaced and any striping or stenciling that has become well worn should be repainted. This is also an opportunity to remove any irrelevant or misleading signage and add any additional signage that may be relevant to upcoming summer and winter trail activities.

Temporary Trail Closures

Partial or full sections of the trail may need to be closed for regular or emergency maintenance of the facility. Trail access for users will need to be managed during these closures. Signs should be posted at all trail entrances on the impacted segments to be closed indicating the length and duration of the closure. Notice of closure should be publicly posted forty eight hours in advance, unless in case of emergency. Trail closures should have physical barriers, and detour signs to alternate routes. The trail should not be re-opened until it has been inspected to ensure that the trail is in usable condition. Where obstructions remain, warning signs should be placed for trail users to slow down or dismount, where needed.





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INNOVATION IN BICYCLE AND PEDESTRIAN COUNTS



Innovation in Bicycle and Pedestrian Counts

A Review of Emerging Technology

SUMMARY

To create better facilities for people walking and biking, and to locate these facilities where demand and need is the highest, transportation professionals need reliable data to guide decision-making. Historically, collecting active transportation data has been both time and resource intensive. Although many communities have established robust count programs, there are still funding, quality control, and data management limitations. New technologies are emerging that aim to change the way active transportation data is collected, making it less expensive and easier to collect, resulting in more reliable data. This report provides a review of these technologies and their applications.



INTRODUCTION

Rates of active transportation have increased nationally over the past fifteen years, driven by steady growth in better walking and bicycling infrastructure. As this trend continues, transportation professionals have become frustrated by a general lack of bike and pedestrian count data. Having access to more robust data is important for several reasons:

- » Data helps to determine where investments in walking and biking infrastructure are most needed
- » Data makes it possible to assess changes over time, draw conclusions about the impact of new facilities, and improve the design of future facilities
- » Data helps to quantify the benefits of walking and biking, which ultimately makes active transportation projects more competitive for funding

» A federal-level initiative, the US Department of Transportation's Mayor's Challenge for Safer People, Safer Streets, calls for improved walking and bicycling data collection

One of the most persistent challenges facing the bicycle and pedestrian field is the lack of usage and demand documentation. Without accurate and consistent count data, it is difficult to measure the positive benefits of investments in these forms of transportation, especially when compared to other modes, such as the private automobile. Fortunately, current and emerging technologies can capture and process non-motorized data efficiently and economically. This report provides a review of these technologies and how they can be integrated into bike and pedestrian count programs.

NATIONAL BIKE AND PEDESTRIAN DOCUMENTATION PROJECT

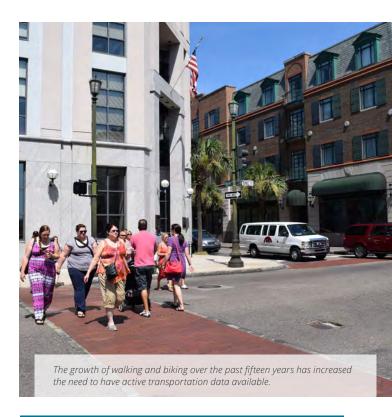
In 2004, Alta Planning + Design and the Institute of Transportation Engineers (ITE) Pedestrian and Bicycle Council established the National Bicycle & Pedestrian Documentation Project (NBPD).* This nationwide effort provided a consistent model of data collection for use by planners, governments, and bicycle and pedestrian professionals. Before the program, there were few systematic and coordinated efforts to include bicycle and pedestrian movements in count data.

The NBPD specifies that standardized counts should occur twice a year, in the spring and the fall. Communities record activity at key locations during two-hour morning and afternoon 'peak-commute' periods on weekdays (Tuesdays, Wednesdays, or Thursdays). A Saturday count precedes or follows the official count dates. Typically, cities and towns enlist volunteers to staff the various locations. Since its inception in 2004, hundreds of cities and towns across the country have used this methodology to count bicycle and pedestrian activity within their communities. The NBPD project has succeeded in changing the way these cities and towns collect active transportation data. However, after nearly a decade of operation, challenges to the program have become apparent:

- » Two-hour AM and PM count periods provide invaluable data, but planners have difficulty making annualized assumptions from this data. A single day does not represent typical travel patterns. National Cooperative Highway Research Program (NCHRP) Report 797: Guidebook on Pedestrian and Bicycle Volume Data Collection found, "the error in estimating average annual bicycle traffic from two-hour, 12-hour, or even one-week counts can be up to 40%" (TRB, 2015, http://www.trb.org/Main/Blurbs/171973. aspx). Conversely, annualized vehicle count data is readily available. Annualized data is critical because it provides the ability to understand change and forecast trends. Without comparable annualized walk and bike figures, it is more difficult to make a case for investments in these modes.
- » Bicyclists and pedestrians have different travel habits than motor vehicles – trips tend to be shorter and distributed throughout the day. These factors make it more difficult to reliably capture their activity with two hour counts.

- » Enlisting volunteers to staff counts is time consuming, and organizing volunteers can be a burden for municipal employees who have limited time and budget available to dedicate to this important task.
- » Non-motorized counts are still primarily conducted with paper and pen. Staff digitize these records after data collection. This process can be time consuming, making data analysis a tedious task.

*Now called the ITE Pedestrian and Bicycle Standing Committee.



Alta is not advocating for the cessation of manual count programs. Alta recognizes that integrating technology into count programs will be a gradual process that will take time. Manual programs have many benefits, including the following, which are listed in no particular order:

- They are great community building exercises that help to engage advocates and highlight the importance of walking & biking.
- Some communities may not have the resources to purchase and install automated counters, making manual count programs the most economical option. In the event that an automated program cannot be implemented, manual counts should continue to be conducted as usual.
- They can quickly produce data in locations of interest (e.g., highcrash locations, corridors that are under review for design changes).
- They can be combined with automated technology, such as mobile applications that replace clipboards with counting boards or screens.
- They are used before deploying automated devices to study a given location's suitability for automated counters. They are also used after automated devices are installed to calibrate and confirm data collected through automated means.

SHORT- AND LONG-TERM COUNT TECHNOLOGY FROM EXISTING LITERATURE AND PRACTICE

NCHRP Report 797: Guidebook on Pedestrian and Bicycle Volume Data Collection compares several types of automated equipment designed to count people walking and bicycling. The report aims to compare different solutions' accuracy, precision, and suggested uses. Due to federal funding, the NCHRP report cannot specify which brands were tested to create the report. This section discusses selected technology types discussed within the NCHRP report and similar references, such as the FHWA Traffic Monitoring Guide (TMG).

SHORT- AND LONG-TERM PEDESTRIAN COUNTERS

Pedestrian counters often use an infrared beam to count people passing a counting point. Active infrared devices are composed of a transmitter and a receiver. An infrared beam travels through the middle, undetected by the human eye. The device counts a person when they break the beam.

Similarly, passive infrared devices project an infrared beam from a fixed point. Anyone within the beam's cone shape is counted. TrailMaster, TRAFx, and EcoCounter are three commonly-used infrared count device manufacturers.

SHORT- AND LONG-TERM BICYCLE COUNTERS

Bicycle counters come in a number of shapes and sizes. Most cities with count programs use one of a handful of data collection options. Pneumatic tubes are appropriate for short-duration counts. They sit on the surface of a roadway and record bicycle traffic. Specialized filters allow the devices to "ignore" motorized traffic that passes over the tubes. EcoCounter and MetroCount are two companies that create bicycle-specific pneumatic tubes as well as other types of traffic monitoring technology. Longer duration counts are possible by using a number of technology types including inductive loops, magnetometers, piezoelectric strips, radar sensors, and thermal imaging. The NCHRP Report 797, Traffic Monitoring Guide, and NBPD outline these and other types of technology. Inductive loops, magnetometers, piezoelectric strips, and radar sensors are embedded in the pavement and detect bicycles as they pass the respective sensor. Thermal imaging cameras are affixed to existing poles within the right of way and capture bicyclists' heat signature as they ride within a counting zone. Video imaging is suitable for longor short- duration count periods. Subsequent sections will discuss emerging thermal and video imaging solutions.

Table 1. Counter Types from Existing Literature and Practice

Technology Type	Common Manufacturers	User Type	Duration	Typical Uses
Infrared (Active and Passive)	TRAFxEcoCounterTrailMaster	Does not automatically distinguish between peds/bikes.	Short or long	Sidewalk or shared- use path
Pneumatic Tubes	EcoCounterMetroCountTRAFxRoad Sys	€	Short	On-road
Inductive Loop	 EcoCounter Road Sys	∱ ⊙	Long	On-road or paved shared-use path
Magnetometer	• TRAFx	%	Long	Shared-use path
Piezoelectric	• MetroCount	\(\frac{1}{2}\)	Long	On-road
Radar Sensors	• Sensys Networks	\(\frac{\sigma}{\circ}\)	Long	On-road
Thermal Imaging	• FLIR	* *	Long	On-road
Video Imaging	 Miovision 	! !	Short or long	On-road

Again, the NBPD has been an extremely successful program. Countless communities have used the data to build better facilities for walking and biking. Many of the program's issues are due to it being a product of its time; in 2004, when it was launched, paper and pen was the only low-cost option for data collection (Facebook had its first birthday in 2004, the first iPhone was not released until 2007, and the first iPad not

until 2010). The wireless tech-revolution that has occurred over the past 10 years has ushered in new tools to facilitate non-motorized data collection. As these products scale up, their prices fall, creating a marketplace that is changing the way we can monitor traffic.



Active Infrared



Passive Infrared (Source: ecocounter.com)



Pneumatic Tubes



Inductive Loops



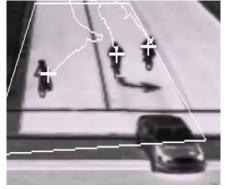
Magnetometer. (Source: trafx.net)



Piezoelectric Strips/Tubes



Radar Sensors (Source: Twitter user Dongho Chang, Traffic Engineer, Seattle Department of Transportation)



Thermal Imaging (Source: Popular Mechanics)



Video Imaging (Source: Iteris)

INNOVATIVE COUNTING TECHNOLOGIES

Several cities are leading the way in using mobile devices to measure increasing levels of bicycle traffic. Several others would like to retire their clipboards and install higher-tech, automated machines. Until very recently, such programs were cost prohibitive. New technologies can reduce the cost of non-motorized data collection, analysis, and visualization. These market disrupters have the potential to provide

a variety of services, while frequently costing a fraction of traditional counting equipment. The following section outlines several services and corresponding technological solutions. The technologies that are emerging can be grouped into the categories listed below, and the graphic on page six summarizes the technologies reviewed.



Device Accuracy:

No independent authority has yet conducted a peer review of these devices' accuracy. At this time, the devices offer varying margins of error. Interested parties should contact the device suppliers to learn more about potential devices and their precision and accuracy.

Device Cost:

Device costs vary based on a number of factors. Costs are based on the price of purchasing counting units, but may also include additional charges for data processing (i.e., an hourly processing rate). Some companies allow users to utilize their own, pre-existing cameras as counting devices. In these cases, prices will differ, since they may not involve data processing but not hardware purchase costs.

INNOVATIVE COUNTING TECHNOLOGIES

Alta Planning + Design has been at the forefront of non-motorized data collection since its co-establishment of the National Bike and Pedestrian Documentation Project in 2004. New technologies are emerging that make it easier and cheaper to collect bike and ped data. Alta is assessing these technologies. The most promising are listed below, grouped by type. The relative cost of each is also identified.

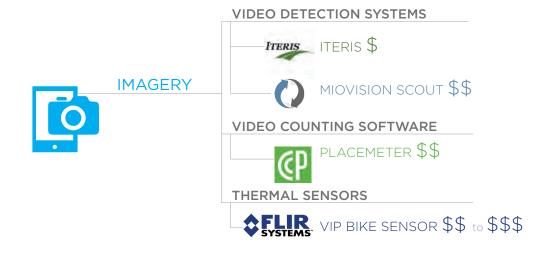


\$\$ Moderately Expensive

\$\$\$ Most Expensive

? Prototype Stage

APP BASED COUNTING SOFTWARE COUNTERPOINT \$ MOBILE TECH GPS ENABLED ROUTE TRACKERS STRAVA METRO \$\$\$ Ride Report RIDE REPORT \$ ANONYMOUS DATA COLLECTION AIR SAGE \$\$





MOBILE TECHNOLOGY

Mobile applications and devices can harness human action to count a variety of road users, track their travel, and measure the quality of transportation infrastructure.

COUNTERPOINT (APP BASED COUNTING SOFTWARE)

Counterpoint is a mobile app designed to "make it easy to count traffic." It provides the ability to make your own counting site or add to an existing site. Tap specific buttons to record who uses the public realm during your counting session. The app also boasts robust traffic categories that are more nuanced than traditional pen and paper tallies, including user-friendly options such as "baby in stroller", "oversized bike", and "visually impaired pedestrian."

STRAVA METRO, CYCLETRACKS, AND CYCLE ATLANTA (GPS ENABLED ROUTE TRACKERS)

Many people who bike or jog use Strava or related apps to track their distance, speed, and route. Portland Bureau of Transportation (PBOT) made history a few years ago when they decided to purchase a large Strava-collected data set. Cities around the world have since purchased Strava data sets to get a sense of their cities' own trip patterns.

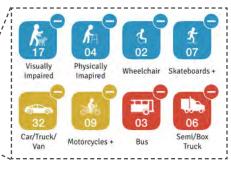
Although the data tends to capture recreational riders, whose gender and ethnicity do not typically represent the overall population, the data is useful to generally determine what routes people are riding. Strava is currently working with municipalities to identify the shortcomings of the data and tailor it better to cities' needs. Eighteen cities have adapted a similar app, CycleTracks, originally created for data collection in San Francisco in 2010. The application's code is open

COUNTERPOINT

Creator Name:	Green Action Centre
User Type:	K & C
Pros:	Free Easy to Use
Cons:	Does not replace manual counting
Typical Uses:	Crowdsourced or semi-automated volunteer-collected counts Short-term research projects
Cost	\$
Installation	Easy
Data Extraction	Mobile device

Counterpoint app screenshot (Source: http://counterpointapp.org/)





STRAVA METRO

Creator Name:	Strava, Inc.
User Type:	K So
	• Easily readable heat maps
Pros:	Potentially high number of users per city because of crowd-sourced data
Cons:	Potential bias towards recreational riders, especially white, older males
Typical Uses:	Coupled with additional data sources to assist with bicycle infrastructure planning
Cost	\$\$\$
Installation	Easy
Data Extraction	Mobile device

The same of the sa

source (http://github.com/sfcta). Cycle Atlanta (cycleatalanta. org) was created to help the City make decisions about locations for new bicycle infrastructure. App users could also submit data about their experience along a given route.

RIDE REPORT (GPS ENABLED ROUTE TRACKER + HARDWARE)

Another app, Ride Report, shares a similar mission to Strava. Once downloaded, the app automatically logs any bicycle trip. Over 20,000 people in Portland have used the app, generating a continuously updating map that displays the ease or stress of bicycling the city's streets. Ride Report's creators are developing bicycle counting hardware to augment their mobile application. The device combines a magnetometer and an infrared camera to count bicyclists. The application automatically logs other app users who pass within 20 to 30 feet of the device. The developing device uses cloud-based

data storage instead of expensive physical storage. According to Bike Portland, the Portland Bureau of Transportation (PBOT) purchased 200 of the devices in 2015.

AIRSAGE (ANONYMOUS DATA COLLECTION SOFTWARE)

What if the data could originate from common, household devices independent of their owners' guidance? Enter, AirSage, which uses ordinary cellphone signals to generate overall traffic patterns for all roadway users. According to the company website, "AirSage generates billions of anonymous location data points, transforming terabytes of signaling data every day into valuable, relevant and accessible information." However, the current technology makes it difficult to separate the data according to form of transportation.

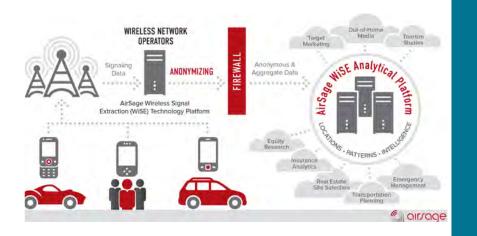


RIDE REPORT

Creator Name:	Knock Software
User Type:	%
Pros:	FreeEstimates route stress
Cons:	Only available in Portland, as of this report
Typical Uses:	Infrastructure planning
Cost	\$
Installation	Easy
Data Extraction	Mobile device

Magnetometer/ infrared sensor hardware is under development as of this report.

Ride Report stress map. The least stressful maps are shown in gree (Source: ride.report/map)



AIRSAGE

Creator Name:	Airsage, Inc.
User Type:	K & C
Pros:	Large data poolWorks well when analyzing data at the macro scale
Cons:	Difficult to accurately assess geographic travel patterns and mode used at the micro scale
Typical Uses:	 Travel volumes Site analysis
Cost	\$\$
Installation	Easy
Data Extraction	Online Dashboard

AirSage's process of collecting and analyzing cell phone data (Source: airsage.com)

IMAGERY COUNT TECHNOLOGY

Your city may already have the components necessary for bringing pedestrian and bicycle count volumes to life. Cities already use camera hardware as part of traffic signal operations. Some are beginning to install cameras to detect bicycles at traffic signals. These cameras can help give bicyclists the green light by helping them trigger traffic signals. Modifying other cameras can yield data that analyzes foot traffic, particularly traffic associated with areas of high commercial value.

VANTAGE AND AUTOSCOPE (VIDEO DETECTION HARDWARE)

Vantage video detection systems, produced by Iteris, only require a software update, called SmartCycle, to begin counting people as they bicycle through intersections.

Autoscope video detection, produced by Econolite, also has the ability to detect and count bicyclists. Video technology is useful for long-term count periods. Deploying the equipment for a one year minimum can help the city establish adjustment factors to better estimate annual ridership statistics.

MIOVISION (VIDEO DETECTION HARDWARE)

Miovision's Scout video imaging device uses a telescopic mounting device to obtain unobstructed video imagery. Scout can differentiate between motor vehicles, pedestrians, and bicyclists. The device's screen allows staff to check the unit before it is dismantled in the field. The Miovision Platform helps users understand the captured data. The Platform is also used to transmit data to Miovision staff for processing and quality assurance. Scout imagery is best for capturing data in short durations, such as week-long studies.

VANTAGE AND AUTOSCOPE

Creator Name:	Iteris; Econolite
User Type:	€ —
Pros:	Cities may already own hardware Supports other functions, such as bicycle detection at intersections
Cons:	No pedestrian features
Typical Uses:	Bicycle traffic volumes; intersection detection; bike minimum green
Cost	\$
Installation	Medium
Data Extraction	Depends on model

Iteris SmartCycle bicycle detection and counting (Source: www.iteris.com)



MIOVISION SCOUT VIDEO UNIT

Creator Name:	Miovision
User Type:	K 50
Pros:	PortableOnline dashboardLarge detection area
Cons:	Presence or absence of lighting at night can affect accuracy
Typical Uses:	 Short duration studies at one or multiple intersections
Cost	\$\$
Installation	Medium
Data Extraction	Automatic; field collection

Miovision Scout video camera and LCD screen (Source: www.miovision.com)



PLACEMETER (VIDEO COUNTING SOFTWARE)

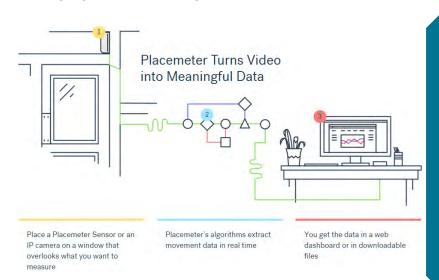
Placemeter, a company that emerged in 2012, turns video footage from any camera (including cell phones) into pedestrian, bicycle, and car movement data. First, users attach an existing security camera or a Placemeter Sensor in a window over the preferred measuring point. Placemeter defines a "Measurement Point" as a sidewalk, street, or storefront, where one wishes to measure bicycle, pedestrian, or vehicle activity. Since measurement points cannot currently distinguish between forms of transportation; users must purchase one screenline per mode of transportation. Measuring people walking, bicycling, and driving would therefore require three screenlines. After installation, the company turns measurement point video footage into data displayed on an online dashboard or emailed as a downloadable file. Placemeter can continue ongoing measurement using the Placemeter Sensor or live

security cameras. In addition to travel volumes, Placemeter can measure walking direction and store visits, and it is particularly well suited for locations where continuous count data is desired. The second generation Placement Sensor is expected in 2016. One drawback of the technology is that it requires a WiFi connection.

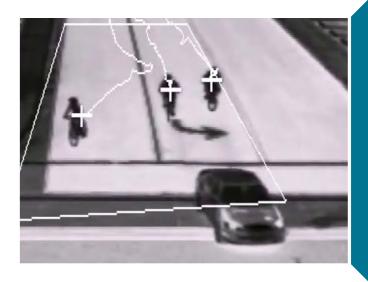
FLIR SYSTEMS (THERMAL SENSORS)

DIACEMETED

FLIR Systems, Inc. produces thermal imaging devices capable of long-term detection and counting of people walking, biking, and driving. Thermal sensors operate similarly to video sensors. While both types of devices capture imagery, thermal sensors generate images based on objects' and people's naturally-occurring infrared radiation. Thermal cameras do not need natural light to produce imagery. Therefore, they are less vulnerable to occlusion than video.



Creator Name:	Placemeter, Inc.
User Type:	K So Co
Pros:	Use existing camerasDashboard to view data
Cons:	Mode differentiation across one screenline is still in development Need for WiFi may limit suitability in some locations
Typical Uses:	Place sensor indoors to count in/out shop movements; traffic volumes or a sidewalk/street
Cost	\$\$
Installation	Easy
Data Extraction	Automatic



VIP BIKE DETECTION BOARD FOR THERMAL SENSOR

Creator Name:	FLIR Systems, Inc.
User Type:	† 5
Pros:	 Easily installed Bicycle detection can be used to adapt green time for people bicycling Large detection area
Cons:	Poor weather at night can affect accuracy
Typical Uses:	 Long duration counts at one or more intersections
Cost	\$\$ to \$\$\$
Installation	Medium
Data Extraction	Automatic

Ricycle detection at an intersection (Source: www.popularmechanics.com)

INEXPENSIVE HARDWARE

WAYCOUNT (PNEUMATIC TUBE COUNTER)

WayCount, based in New York, offers three DIY-type models. Each device uses pneumatic tubes and inexpensive, easily portable components to count bikes and cars. WayCount produces three devices: Lite, Aluminum, and Hi-Viz. The Lite model is \$199. The Aluminum device is \$200 plus freight. WayCount Aluminum requires a minimum purchase of 250 units. WayCount Hi-Viz features a screen with 6" tall LED letters, which makers say can be viewed 100' away. The screen lets bicyclists, passersby, and drivers see the number of bicyclists counted in real time since the session began. Each of the WayCount devices can collect continuous data throughout a 24-hour period.

NUMINA (WIRELESS SENSOR)

Numina, an emerging product from CTY, used the Knight Foundation Prototype Fund to develop a device to track people walking, biking, and driving. The start-up aims to produce an inexpensive sensor, easily installed on existing light poles, without the need for special tools or know-how.

The 2015 Association of Pedestrian and Bicycle Professionals (APBP) conference proved the perfect testing ground for the fledgling device. Conference attendees provided feedback to improve the prototype. With time, Numina aims to measure noise pollution, air quality, and green space, in relation to traffic counts.

WAYCOUNT

Creator Name:	Tomorrow Lab
User Type:	₺
Pros:	Less expensive than other pneumatic tubesReal time count display
Cons:	Minimum unit purchase for Aluminum counter
Typical Uses:	Short-duration counts as part of a citywide program; one-off data collection efforts along a bike facility
Cost	\$ to \$\$\$
Installation	Easy
Data Extraction	Field collection

NayCount Hi-Viz in action (Source: http://waycount.com/)

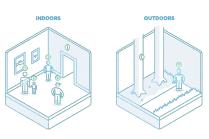


NUMINA

Creator Name:	СТҮ
User Type:	∱ 5€
Pros:	Alternative to more expensive equipmentOnline dashboard
Cons:	Not currently available for purchase- in prototyping stage
Typical Uses:	On-street or off-street volume analysis for short- or long-term counts
Cost	\$\$
Installation	Easy
Data Extraction	Automatic

Potential applications for Numina sensors (Source: Numina by CTY)

Numina is analytics for places.





See **real-time heat maps of activity** for your neighborhood, park, institution, or business. See how *people* move, not just cars.

COUNTING AND MORE

Some devices go beyond counts data collection to investigate other characteristics of an urban space. The Array of Things (AoT) project team is developing sensors to count people in public spaces. They are also working to collect place-related data such as air quality and other indicators.

AoT, led by Argonne National Laboratory and the University of Chicago, is currently working with a \$3.1 million grant from the National Science Foundation to develop an "urban-scale 'instrument'" to track a laundry list of freely-available, public data. The project team and the City of Chicago plan to install 50 sensor nodes to streetlights in early 2016. By 2017, the number will grow to 500.



ARRAY OF THINGS PROJECT

Creator Name:	Argonne National Laboratory and the University of Chicago
User Type:	Ŕ
Pros:	Will eventually collect data related to air quality and other metrics
Cons:	 Not currently available for purchase- in prototyping stage
Typical Uses:	 Monitor citywide trends related to economic, environmental, and transportation trends
Cost	Unknown

Prototype Photo (Source: Anthony Souffle / Chicago Tribune,

Interested in Learning More?

The range of technologies shown below can help you create powerful datasets to inform transportation planning in your community. Alta Planning + Design offers comprehensive services to develop custom tailored active transportation count programs. We can help you determine which tools are the most appropriate, identify count locations, and coordinate installation. Our analytics team can also collect the data and create compelling visuals to make it useful for decision makers. Please contact us with any questions you have about instituting a techdriven count program today.



ABOUT THE AUTHORS



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Kristen assists in managing a variety of bicycle and pedestrian projects ranging from data collection and analysis to master planning. She guides cities, regions, and states through the data collection process with the ultimate goal of deciphering data to support their current and future visions.



Sam Piper | sampiper@altaplanning.com

Sam has focused his career on developing better infrastructure for active modes of transportation. He has extensive experience leading long-term count programs and visualizing bike and pedestrian data. He enjoys using technology to make sense of our surroundings and to facilitate decision making.

CITY OF APPLETON Department of Public Works MEMORANDUM

M	inance Committee Iunicipal Services tilities Committee vard of Contract	Committee				
	nt of Public Worl			ollowing des	cribed work:	
Be awarded to: Name:	Vinton Constructi	on Company				
Address:	P.O. Box 1987					***************************************
	Manitowoc, WI 54	4221				
In the amount	of:	(\$224,134.50	_		
With a 10%	contingency of:		\$22,413.45	_		
For a project t	otal not to exceed		\$246,547.95			
** OR **						
In an amount	Not To Exceed :			-		
Bu	ıdget:	\$348,100.00				
	mate:	\$390,000.00				
	Date:	01/10/17				
Council	Date:	01/18/17				

			#1 - Vinton Construction Co.		#2 - Feaker & Sons Co.		#3 - Kruczek Const., Inc.		#4 - PTS Contractors		#5 - Carl Bowers & Sons	Sons
<u>Description</u>	7 AID	Chit	Unit Price/\$	Total/\$	Unit Price/\$	Total/\$	Unit Price/\$	Total/\$	Unit Price/\$	Total/\$	Unit Price/\$	Total/\$
1. Furnish & Install 15" Sanitary Sewer	1,240	lin.ft.	\$40.50	\$50,220.00	\$49.00	\$60,760.00	\$52.00	\$64,480.00	\$59.70	\$74,028.00	\$64.00	\$79,360.00
2. Fumish & Install 12" Sanitary Sewer	54	lin.ft.	\$37.50	\$2,025.00	\$46.00	\$2,484.00	\$72.00	\$3,888.00	\$87.00	\$4,698.00	\$51.00	\$2,754.00
3. Fumish & Install 10" Sanitary Sewer	105	lin.ft.	\$35.50	\$3,727.50	\$44.00	\$4,620.00	\$66.00	\$6,930.00	\$80.40	\$8,442.00	\$48.00	\$5,040.00
4. Fumish & Install Sanitary Manhole	98	vert.ft.	\$153.00	\$13,158.00	\$160.00	\$13,760.00	\$137.00	\$11,782.00	\$171.90	\$14,783.40	\$180.00	\$15,480.00
5. Fumish & Install Sanitary Manhole Casting	asting 5	ea ö	\$454.00	\$2,270.00	\$385.00	\$1,925.00	\$580.00	\$2,900.00	\$383.00	\$1,915.00	\$650.00	\$3,250.00
6. Fumish & Install 16" Water Main	1,130	lin.ft.	\$49.00	\$55,370.00	\$59.00	\$66,670.00	\$53.75	\$60,737.50	\$50.70	\$57,291.00	\$60.00	\$67,800.00
7. Fumish & Install 12" Water Main	40	lin.ft.	\$43.00	\$1,720.00	\$49.00	\$1,960.00	\$84.00	\$3,360.00	\$49.60	\$1,984.00	\$50.00	\$2,000.00
8. Furnish & Install 6" Hydrant Lead	50	lin.ft.	\$42.00	\$2,100.00	\$30.00	\$1,500.00	\$70.00	\$3,500.00	\$30.30	\$1,515.00	\$45.00	\$2,250.00
9. Furnish & Install Hydrant	4	ea.	\$3,665.00	\$14,660.00	\$3,385.00	\$13,540.00	\$3,500.00	\$14,000.00	\$3,205.00	\$12,820.00	\$3,500.00	\$14,000.00
10. Hydrant Relocation	←	ea.	\$800.00	\$800.00	\$750.00	\$750.00	\$700.00	\$700.00	\$515.00	\$515.00	\$1,200.00	\$1,200.00
11. Furnish & Install Hydrant Extension	ю	vert. ft.	\$745.00	\$2,235.00	\$620.00	\$1,860.00	\$530.00	\$1,590.00	\$640.00	\$1,920.00	\$600.00	\$1,800.00
12. Furnish & Install 16" Gate Valve with Box	Box 4	ea a	\$6,447.00	\$25,788.00	\$6,600.00	\$26,400.00	\$7,100.00	\$28,400.00	\$6,420.00	\$25,680.00	\$6,600.00	\$26,400.00
13. Furnish & Install 12" Gate Valve with Box	Box 1	ea.	\$2,350.00	\$2,350.00	\$2,400.00	\$2,400.00	\$2,432.07	\$2,432.07	\$2,370.00	\$2,370.00	\$2,500.00	\$2,500.00
14. Furnish & Install 6" Gate Valve with Box	30x 3	ea.	\$1,021.00	\$3,063.00	\$1,000.00	\$3,000.00	\$960.00	\$2,880.00	\$925.00	\$2,775.00	\$1,100.00	\$3,300.00
15. Fumish & Install 16" Bend	4	ea.	\$1,347.00	\$5,388.00	\$950.00	\$3,800.00	\$1,375.00	\$5,500.00	\$1,140.00	\$4,560.00	\$900.00	\$3,600.00
16. Fumish & Install Silt Fence	554	lin.ft.	\$2.50	\$1,385.00	\$1.50	\$831.00	\$2.00	\$1,108.00	\$3.00	\$1,662.00	\$1.50	\$831.00
17. Furnish & Install Tracking Pad w/ Culvert	lvert 2	ea.	\$1,500.00	\$3,000.00	\$1,100.00	\$2,200.00	\$900.00	\$1,800.00	\$1,111.00	\$2,222.00	\$1,500.00	\$3,000.00
18. Furnish & Install 20" Sediment Log	160	lin. Ft.	\$8.00	\$1,280.00	\$4.00	\$640.00	\$4.50	\$720.00	\$6.35	\$1,016.00	\$6.00	\$960.00
19. Furnish & Install Rock Filter Bag Ditch Check	th Check	ea ë	\$250.00	\$1,000.00	\$180.00	\$720.00	\$100.00	\$400.00	\$12.70	\$50.80	\$100.00	\$400.00
20. Contaminated Soil Removal	100	cu.yds.	\$0.01	\$1.00	\$10.00	\$1,000.00	\$10.00	\$1,000.00	\$0.01	\$1.00	\$15.00	\$1,500.00
21. Fumish & Install Stone Backfill	3,115	tons	\$9.80	\$30,527.00	\$12.00	\$37,380.00	\$10.00	\$31,150.00	\$9.04	\$28,159.60	\$10.00	\$31,150.00
22. Furnish & Install Extra Stone Bedding	100	tons	\$10.92	\$1,092.00	\$10.50	\$1,050.00	\$15.00	\$1,500.00	\$19.00	\$1,900.00	\$0.01	\$1.00
23. Mobilization & Traffic Control	~	1 Lump Sum	\$975.00	\$975.00	\$5,200.00	\$5,200.00	\$6,500.00	\$6,500.00	\$7,650.00	\$7,650.00	\$1,500.00	\$1,500.00
TOTAL ITEMS 1 THROUGH 24:			And the second s	\$224,134.50	II	\$254,450.00		\$257,257.57		\$257,957.80		\$270,076.00

TAIO	Unit	#6 -Globe Contractors Unit Price/\$	tors Total/\$	#7 -De Groot, Inc. Unit Price/\$	Total/\$	#8 Dorner, Inc. Unit Price/\$	Total/\$	#9 - Advance Const Unit Price/\$	st. Total/\$
1,240	lin.ft.	\$61.00	\$75,640.00	\$60.81	\$75,404.40	\$69.00	\$85,560.00	\$71.75	\$88,970.00
54	lin.ft.	\$58.00	\$3,132.00	\$47.95	\$2,589.30	\$142.00	\$7,668.00	\$75.00	\$4,050.00
105	lin.ft.	\$58.00	\$6,090.00	\$45.80	\$4,809.00	\$88.00	\$9,240.00	\$72.50	\$7,612.50
86	vert.ft.	\$160.00	\$13,760.00	\$226.58	\$19,485.88	\$302.00	\$25,972.00	\$248.00	\$21,328.00
v	eë ës	\$325.00	\$1,625.00	\$338.35	\$1,691.75	\$415.00	\$2,075.00	\$600.00	\$3,000.00
1,130	lin.ft.	\$76.00	\$85,880.00	\$66.54	\$75,190.20	\$59.00	\$66,670.00	\$69.00	\$77,970.00
40	lin.ft.	\$68.00	\$2,720.00	\$55.97	\$2,238.80	\$79.00	\$3,160.00	\$77.00	\$3,080.00
90	lin.ft.	\$62.00	\$3,100.00	\$38.99	\$1,949.50	\$38.00	\$1,900.00	\$54.50	\$2,725.00
4	e,	\$3,300.00	\$13,200.00	\$3,545.10	\$14,180.40	\$3,600.00	\$14,400.00	\$3,240.00	\$12,960.00
~	e a	\$525.00	\$525.00	\$1,212.00	\$1,212.00	\$950.00	\$950.00	\$1,950.00	\$1,950.00
т	vert. ft.	\$525.00	\$1,575.00	\$656.50	\$1,969.50	\$700.00	\$2,100.00	\$695.00	\$2,085.00
4	e a	\$7,100.00	\$28,400.00	\$6,585.20	\$26,340.80	\$7,150.00	\$28,600.00	\$6,298.00	\$25,192.00
_	es is	\$2,400.00	\$2,400.00	\$2,490.66	\$2,490.66	\$2,550.00	\$2,550.00	\$2,220.00	\$2,220.00
ო	ea i	\$950.00	\$2,850.00	\$1,090.80	\$3,272.40	\$1,025.00	\$3,075.00	\$850.00	\$2,550.00
4	ea ë	\$775.00	\$3,100.00	\$1,196.85	\$4,787.40	\$1,000.00	\$4,000.00	\$900.00	\$3,600.00
554	lin.ft.	\$2.50	\$1,385.00	\$3.03	\$1,678.62	\$2.15	\$1,191.10	\$1.50	\$831.00
8	e ë	\$1,400.00	\$2,800.00	\$858.50	\$1,717.00	\$1,600.00	\$3,200.00	\$900.00	\$1,800.00
160	lin. Ft.	\$7.00	\$1,120.00	\$12.12	\$1,939.20	\$19.50	\$3,120.00	\$7.00	\$1,120.00
4	ea e	\$70.00	\$280.00	\$75.75	\$303.00	\$175.00	\$700.00	\$100.00	\$400.00
100	cu.yds.	\$20.00	\$2,000.00	\$10.10	\$1,010.00	\$15.00	\$1,500.00	\$12.00	\$1,200.00
3,115	tons	\$10.00	\$31,150.00	\$14.68	\$45,728.20	\$11.50	\$35,822.50	\$14.00	\$43,610.00
100	tons	\$20.00	\$2,000.00	\$14.14	\$1,414.00	\$12.50	\$1,250.00	\$15.00	\$1,500.00
-	Lump Sum	n \$6,000.00	\$6,000.00	\$4,545.00	\$4,545.00	\$15,000.00	\$15,000.00	\$13,560.00	\$13,560.00
		!!	\$290,732.00		\$295,947.01		\$319,703.60	I	\$323,313.50



"...meeting community needs...enhancing quality of life."

APPLETON FIRE DEPARTMENT 700 N. DREW STREET APPLETON, WI 54911

MEMORANDUM

To: Alderperson Kathy Plank, Finance Committee

Alderperson Kyle Loebner, Safety and Licensing Committee

Members of the Common Council

From: Len Vander Wyst, Fire Chief

Date: 1/5/2017

Re: Request to Order Four Firetrucks from Fire Apparatus & Equipment

In July 2016, the Appleton Fire Department received approval to sole source purchase the fire pumper that was approved in the 2017 Capital Improvement Program (CIP). Plans are currently underway to proceed with that order in the coming weeks to avoid a February 1st price increase.

Since the Fire Department has identical pumpers in the 2018 and 2019 CEA replacement plan along with an identical, longer rescue pumper in the 2020 CEA replacement plan, the department has discussed the ability to take advantage of additional cost savings by placing all four orders at this time with subsequent delivery in budgeted years. This would allow the City to get the current pricing plus an approximate 3% Producer Price Index (PPI) increase each year. This breaks down as follows:

Description	CEA Replacement Year	Purchased as Four-Truck Order	Purchased Separately	Savings
189" PUC Engine	2017	\$616,625*	\$625,000	\$8,375
189" PUC Engine	2018	\$634,100	\$650,000	\$15,900
189" PUC Engine	2019	\$653,200	\$676,000	\$22,800
214" PUC Engine	2020	\$758,800	\$793,030	\$34,230
			Total Savings:	\$81,305

^{*}This price does not include the prepayment discount.

Under this scenario, no payment would be required until delivery. However, pre-payment discounts are still available based on interest rates at the time of delivery. For example, the 2017 prepayment discount is 4.5% bringing the cost from \$616,625 to \$590,225. The department will save \$26,400 by prepaying for this vehicle.

The department has identified that standardizing our fleet will improve efficiencies and safety by providing consistency from one truck to the next for those personnel moving from station to station. Efficiencies will also be gained relating to maintenance of the vehicles. By ordering the same fire pumper for the next four years, the department will save significant staff time by eliminating the need to develop specifications for each truck. The department will also save significant staff time relating to training on the new truck.

The department has a long-standing relationship with Pierce Manufacturing and has seen the innovation, cooperation, improved pricing, as well as their commitment and direct involvement in the growth of our City. When the department has encountered issues with our firetrucks, Pierce Manufacturing has been extremely responsive to our needs including taking parts off the assembly line to assist us in keeping our trucks in service.

Therefore, the Appleton Fire Department respectfully requests the approval of both the sole source purchase from Fire Apparatus & Equipment, our local Pierce Manufacturing vendor, of the four fire pumpers along with the ability to order all four replacement firetrucks in advance for future year delivery and payment.

Please do not hesitate to contact me should you have any questions at 832-5810. Thank you!

COOPERATION AGREEMENT BETWEEN THE CITY OF APPLETON AND THE APPLETON REDEVELOPMENT AUTHORITY

THIS COOPERATION AGREEMENT ("Agreement") is entered into on this day of, 2017, by and between the city of Appleton, a municipal body, created and existing under the laws of the state of Wisconsin ("City"), with a mailing address of 100 North Appleton Street, Appleton, WI 54911, and the Appleton Redevelopment Authority, a public body, corporate and politic, created and existing under the laws of the state of Wisconsin ("APA"), with a mailing address of 100 North Appleton.
existing under the laws of the state of Wisconsin ("ARA"), with a mailing address of 100 North Appleton Street, Appleton, WI 54911. The City and the ARA may be singularly referred to herein as a party or jointly as the parties.
WHEREAS the City and the ARA are dedicated to meeting community needs and enhancing quality of life; and
WHEREAS the City and the ARA's mutual goal is to work together to create a better community and allow for cooperative long-term planning; and
WHEREAS the City and the ARA desire to maintain their mutually beneficial relationship; and
WHEREAS the Appleton Common Council created the ARA in 1972, giving the ARA the exclusive authority to carry out urban renewal projects and programs to eliminate blight; and
WHEREAS the Appleton Common Council retained the authority to approve the allocations to the ARA's budget for each fiscal year; and
WHEREAS the ARA, per state statute, cannot be under the supervision of the Appleton Common Council, and is therefore not accountable to the Appleton Common Council nor can its actions be vetoed by the Appleton Common Council; and
WHEREAS any debt or obligation of the ARA shall not be considered a debt or obligation of the City or any other governmental authority other than the ARA itself; and
WHEREAS the City and the ARA seek continued transparency and accountability for all actions; and
WHEREAS the City of Appleton's Common Council on of, 2017, did give authorization to the City to enter into this Agreement; and
WHEREAS the ARA on of, 2017, did give authorization to the ARA to enter into this Agreement;
IT IS NOW, THEREFORE, agreed between the City and the ARA as follows:
ARTICLE I CITY RESPONSIBILITIES
1.1 The City shall provide to the ARA:
Cooperation Agreement

- 1.1.1 Any reasonably needed personnel, including professional, technical, and administrative personnel, and skilled and unskilled labor.
- 1.1.2 Space and the materials, supplies and equipment necessary for the ARA to perform its responsibilities. The ARA may obtain its own materials, supplies and equipment when it so determines, with title for said materials, supplies and/or equipment remaining with the ARA.
- 1.2 The City shall act to ensure the timely implementation of capital improvement projects which involve the ARA, including authorizing the Finance Director and/or Director of Community and Economic Development to assist in identifying efficient methods to finance the costs of said improvements.
- 1.3 The City shall promote development in commercial areas independent of and in conjunction with the ARA.
- 1.4 The City shall ensure:
- 1.4.1 Funds borrowed on behalf of the ARA but unused at the end of the fiscal year are rolled over for three (3) consecutive years. All unspent funds after this time shall revert back to the City.
- 1.4.2 All funds expended and/or allocated for use by or on behalf of the ARA are compliant with the Government Finance Office Association ("GFOA") Guidelines.

ARTICLE II ARA RESPONSIBILITIES

- 2.1 The ARA shall provide the following services to the City:
 - 2.1.1 Land holding services.
 - 2.1.2 Acquisition of property through means including donation, purchase and condemnation.
- 2.1.3 Drafting and executing comprehensive redevelopment plans including, but not limited to, investigating, planning, overseeing, purchasing property and making contracts for demolition and rebuilding.
 - 2.1.4 Assembling real estate for redevelopment.
 - 2.1.5 Demolition and removal of buildings and improvements.
- 2.1.6 Disposition of any property acquired in a project area (including sale, initial leasing or retention by the ARA) at its fair value for uses in accordance with the applicable redevelopment plan.
- 2.1.7 Carrying out plans for a program of voluntary or compulsory repair and rehabilitation of buildings or other improvements in accordance with a redevelopment plan.
- 2.1.8 Acquisitions and redevelopment of any other real property in a project area where necessary to eliminate unhealthful, unsanitary or unsafe conditions, lessen density, eliminate obsolete or other uses detrimental to the public welfare or otherwise to remove or prevent the spread of blight or deterioration, or to provide land for needed public facilities.

- 2.2 The ARA shall promote development in commercial areas independent of and in conjunction with the City.
- 2.3 The ARA shall work cooperatively with local businesses, individuals, non-profit and for profit organizations, developers, etc., as appropriate to the mission of the ARA, including, but not limited to, accomplishing the goals and objectives identified in the Comprehensive Plan, the Economic Development Strategic Plan and the City of Appleton.
- 2.4 The ARA shall be responsible for its fiscal management and spending, insofar as it is within the financial guidelines set by the City, including accepting grants from state and federal agencies and accepting grants from other sources which may require the Authority to pay a local match.
- 2.5 The ARA shall act to ensure the timely implementation of capital improvement projects for the City by working independently and cooperatively with the City.
- 2.6 The ARA shall comply with all local, state and federal laws and regulations.

ARTICLE III INDEMNIFICATION

3.1 Each party shall indemnify, defend, and hold the other party harmless from and against any and all claims, actions, suits, demands, assessments, or judgments asserted, and any and all losses, liabilities, damages, costs, and expenses (including, without limitation, attorney's fees, accounting fees, and investigation costs to the extent permitted by law) alleged or incurred arising out of or relating to any operations, acts, or omissions of the indemnifying party or any of its officers, employees, agents, authorized volunteers and invitees in the exercise of the indemnifying party's rights or the performance or observance of the indemnifying party's obligations under this Agreement. Prompt notice must be given of any claim, and the party who is providing the indemnification will have control of any defense or settlement.

ARTICLE IV MISCELLANEOUS PROVISIONS

- 4.1 Any change, amendment or addendum to this Agreement requires the written approval of the parties hereto and shall be incorporated herein as an amendment to this Agreement.
- 4.2 The ARA shall not assign any interest in the Agreement nor transfer any interest in the same without the prior written approval of the City.
- 4.3 This Agreement shall commence the date indicated above and shall be terminable by either party with ninety (90) days written notice.
- 4.4 The terms of this Agreement shall control over any conflicting terms in any referenced agreement or document.
- 4.5 For the purpose of this Agreement, notice means a document in writing and delivered personally or by United States certified or registered mail, postage prepaid, return receipt requested. Any notice must be delivered to the parties at their respective addresses set forth above. The date that notice shall be deemed to

have been made shall be the date of delivery, when delivered personally; or the date set forth on the return receipt if sent by certified or registered mail.

4.6 If any provision of this agreement shall be declared by any court of competent jurisdiction to be illegal, void, or unenforceable, the other provisions shall not be affected but shall remain in full force and effect.

Appleton Redevelopment Authority

By:	By:
Printed Name:	Printed Name:
Title:	Title:
By:	Ву:
Printed Name:	Printed Name:
Title:	Title:
City of A	appleton
Ву:	Ву:
Printed Name:	Printed Name:
Title:	Title:
By:	By:
Printed Name:	Printed Name:
Title:	Title:
Provision has been made to pay the liability that will accrue under this contract.	Approved as to Form:
Anthony D. Saucerman, Director of Finance	James P. Walsh, City Attorney

J:\Attorney\WORD\EMILY\ARA\City and ARA Cooperative Agreement 1-5-17.docx

Date: 12/2016

To: Human resources Committee

From: Kurt Eggebrecht

RE: Change in organizational chart

I am requesting that our current Public Health Preparedness Coordinator position be changed from 1.0 FTE to .75 FTE. The funding for this position is from federal pass through grant funds from the State and also supported by contracted communities. This is a change from the requested 2017 budget as we have sufficient funds due to carry over for a full time position but this would not have been sustainable into 2018. Changing to .75 FTE now allows us to maintain services within budget moving forward into the foreseeable future.

This is a grant supported position responsible for leading local efforts to assess, develop, coordinate and implement public health emergency plans within the Health Department. This includes activities to increase readiness to respond to bioterrorism and other naturally occurring public health emergencies such as power outage, weather related health risk and communicable disease.

Specifically, the individual will perform work for the Appleton Health department and collaborate with other partners including the Fox Valley Area Health Care Coalition. This position also has the potential to provide contracted services with other communities within Northeast Wisconsin. Currently we have contracts with the counties of Green Lake, Marquette, and Waushara and the City of Menasha. This position will work to meet all requirements found within the State public health preparedness grant.

Essential job functions include, but are not limited to, the following:

- -Responsible for ongoing development of the Public Health Emergency Plan.
- -Regular Interaction with the Appleton Public Health Officer, Emergency Management staff, elected officials; Hazmat, law enforcement, public safety officials and other non-profit agencies.
- -Coordinate bioterrorism-related surveillance and preparedness activities with existing communicable disease activities with state and local public health agencies.
- -Integrate bioterrorism and communicable disease communication activities with existing and proposed public health communication networks.
- -Coordinate and participate in all planning and training processes for biologic, chemical and radiological terrorism preparedness.
- -Coordinate local activities with other grant funded positions relative to bioterrorism related surveillance and preparedness.
- -Write policies, program proposals, grants, emergency preparedness plans, technical papers, publications and/or reports.

-Develop necessary partnerships and provide linkage to all of the public health community, including any necessary Memoranda of Understanding (MOUs) with counties, public or private organizations, academic institutions, and border jurisdictions.

WHAT IMPACT WILL IT HAVE IF THIS POSITION IS NOT FILED?

In order to meet the requirements of the federal pass through grant funds from the State we need to demonstrate progress on each year's requirements. Funds received are contingent on successfully completing objectives through on site audit of work twice a year with formal written report at years end. These objectives would be difficult to complete without a position focusing on this effort.

The most important impact will be that our community and region will struggle to remain current with new emerging health threats and response to these public health challenges. In the past 24 months alone we have needed to prepare response plans for Ebola, MERS, and Measles and researched Zika virus in anticipation of a response to new cases. Without this position we would risk our ability to protect the public from new and sometimes reemerging diseases that are brought to our local communities from other parts of the globe.

Given this position is depended on grant funds it is with the understanding that if funding levels should change in the future we will work closely with Finance and Human Resources departments to monitor and recommend adjustments as deemed appropriate.



"...meeting community needs ... enhancing quality of life."

APPLETON FIRE DEPARTMENT 700 N. DREW STREET APPLETON, WI 54911

MEMORANDUM

To: Alderperson Kathy Plank, Finance Committee

Alderperson Kyle Loebner, Safety and Licensing Committee

Members of the Common Council

From: Len Vander Wyst, Fire Chief

Date: 1/5/2017

Re: Request to Order Four Firetrucks from Fire Apparatus & Equipment

In July 2016, the Appleton Fire Department received approval to sole source purchase the fire pumper that was approved in the 2017 Capital Improvement Program (CIP). Plans are currently underway to proceed with that order in the coming weeks to avoid a February 1st price increase.

Since the Fire Department has identical pumpers in the 2018 and 2019 CEA replacement plan along with an identical, longer rescue pumper in the 2020 CEA replacement plan, the department has discussed the ability to take advantage of additional cost savings by placing all four orders at this time with subsequent delivery in budgeted years. This would allow the City to get the current pricing plus an approximate 3% Producer Price Index (PPI) increase each year. This breaks down as follows:

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APPLETON FIRE DEPARTMENT 700 N. DREW STREET APPLETON, WI 54911

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			Total Savings:	\$81,305

^{*}This price does not include the prepayment discount.

Under this scenario, no payment would be required until delivery. However, pre-payment discounts are still available based on interest rates at the time of delivery. For example, the 2017 prepayment discount is 4.5% bringing the cost from \$616,625 to \$590,225. The department will save \$26,400 by prepaying for this vehicle.

The department has identified that standardizing our fleet will improve efficiencies and safety by providing consistency from one truck to the next for those personnel moving from station to station. Efficiencies will also be gained relating to maintenance of the vehicles. By ordering the same fire pumper for the next four years, the department will save significant staff time by eliminating the need to develop specifications for each truck. The department will also save significant staff time relating to training on the new truck.

The department has a long-standing relationship with Pierce Manufacturing and has seen the innovation, cooperation, improved pricing, as well as their commitment and direct involvement in the growth of our City. When the department has encountered issues with our firetrucks, Pierce Manufacturing has been extremely responsive to our needs including taking parts off the assembly line to assist us in keeping our trucks in service.

Therefore, the Appleton Fire Department respectfully requests the approval of both the sole source purchase from Fire Apparatus & Equipment, our local Pierce Manufacturing vendor, of the four fire pumpers along with the ability to order all four replacement firetrucks in advance for future year delivery and payment.

Please do not hesitate to contact me should you have any questions at 832-5810. Thank you!