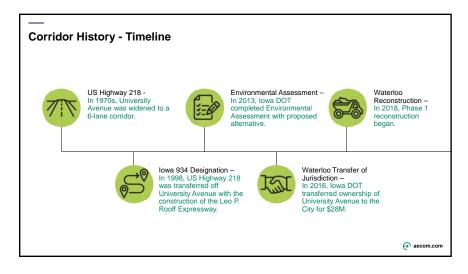


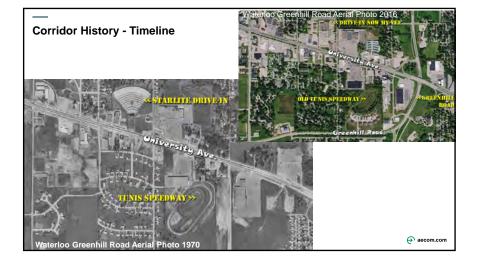


Corridor History Project Goals & Overview Design Alternatives Construction Enhancements Public Engagement Funding & Economic Benefits Project Awards & Ribbon Cutting









Corridor History – Hanna Family Monument

The Hanna Family was the first to make Waterloo their permanent home. They built a log cabin near present day University Avenue. This history is marked with a Prairie Pathways Kiosk along the new recreational trail.







Project Goals

- Reconstruct University Avenue.
- Optimize corridor operations to move people across and through the area safely and efficiently.
- Develop a Complete Street corridor that is functional and appealing for nonmotorists and motorists alike.
- Road diet Create space for all users.
- Met Transit accommodations Bus stops and turn-outs.
- Provide opportunities for aesthetic enhancements.
- Support growth and revitalization.



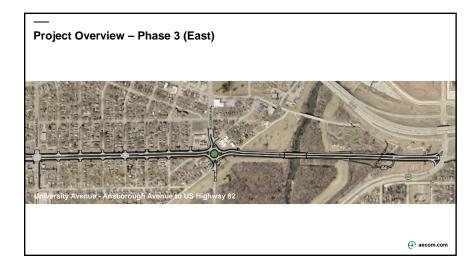


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Design Alternatives

Typical Cross Section Intersection Analysis & Impact Review Speed Enhancement

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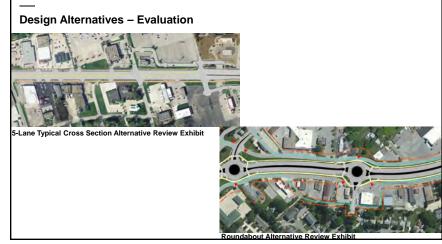
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Design Alternatives – Typical Cross Section

- Typical 4-Lane Cross Section Replaced 6-Lane
 - Met the current and projected traffic volumes. (Traffic volumes ranged from 7,000 to 22,000 veh/day.)
 - Created space for complete street and streetscape improvements.
 - Reduced ROW acquisition
 - Reduced cost for construction, operations, and maintenance for the facility.
 - Bus Turnouts and Bus Stops :
 - North Star Community Services
 - Exceptional Persons, Inc.
 - Falls Avenue Existing Bus Shelters
 - Ansborough Avenue







— Design Alternatives – Speed	—– Design Alternatives – Intersection Evaluation						
						Access Impact	
 Existing corridor had below-average crash rates at 45 mph. 							Roundabout
University Avenue 258/HMVMT	Midway Drive	B/10.2	B/12.7	Minimal	Severe	None	Severe
Statewide City Street Average 453/HMVMT	Progress Drive	C/26.5	C/23.7	Minimal	Severe	None	Minimal
, ,	Tunis Drive	B/13.2	C/17.0	Minimal	Severe	None	Moderate
• With the proposed 5-lane typical cross section and direct access, University Avenue from Midway Drive to Tunis Drive would benefit from slower speeds.	Greenhill West Ramp	N/A	B/11.5	Minimal	Minimal	None	Improved
This also provided a logical transition to Cedar Falls.	Greenhill East Ramp	N/A	B/11.3	Minimal	Severe	None	Moderate
University Avenue from Tunis Drive to Highway 63 has controlled access and frontage roads for the majority of this section.	Casey's/Becks	A/6.0	C/15.3	Minimal	Severe	None	Severe
	Falls Avenue	B/16.7	C/21.1	Minimal	Severe	None	Severe
Recommendation	Sager Avenue	A/7.3	B/12.0	Minimal	Minimal	None	Severe
 University Avenue from Midway Drive to Tunis Drive is recommended to have a posted speed limit of 35 mph. 	Ansborough Avenue	C/36.9	C/23.4*	Minimal	Moderate	None	Minimal

Eletcher Avenue

Source: 2011 Traffic Study

B/19

C/16.6

*Required a 3-lane roundabout.

Minimal

Minima

 University Avenue from Tunis Drive to Highway 63 is recommended to have a posted speed limit of 45 mph.

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Design Alternatives – Intersection Evaluation Due to substantial ROW impacts for Progress Drive, a roundabout was not recommended. Ansborough Avenue would have required a 3-lane roundabout due to large volume of left-turn traffic. At this time, Waterloo did not have a multilane roundabout, and a 3-lane roundabout was not recommended. Ansborough Avenue & University Avenue & University Avenue

Design Alternatives – Intersection Evaluation



- Fletcher Avenue had a higher-thanaverage crash rate, so a roundabout was recommended as a safety improvement.
 - Minimal ROW Impacts
 - Minimal Access Impacts
 - Crash Rate Reduction of 64%

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Design Alternatives – Intersection Evaluation

- · Recommendation:
 - The intersection design recommendation for University Avenue (with the exception of Fletcher Avenue) was the coordinated traffic signal alternative. The traffic signal system constructed is an adaptive system and connected to Waterloo's Traffic Management Center.
- Coordinated Traffic Signals
 - Lower Overall Costs
 - Reduction in Overall Travel Time and Delay
 - Reduced Fuel Consumption and Air Pollution
 - Less Impact on Adjacent Businesses



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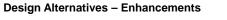
Design Alternatives – Enhancements

- Public Engagement was utilized for the selection of the various enhancements.
 - Colored and Textured Concrete
 - Street Trees
 - Plantings
 - Backlit Street Names on Mast Arms
 - Intersection Markers
 - Gateway Features
 - Bridge Monuments
 - Bridge Railing Enhancements



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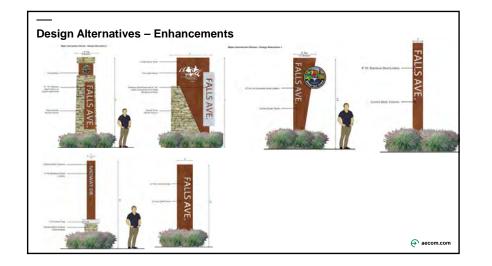






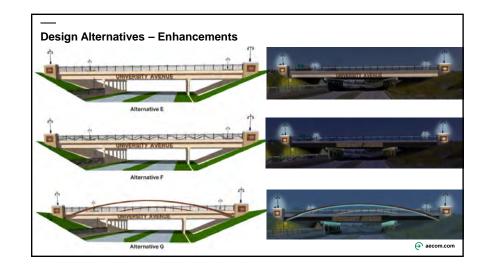


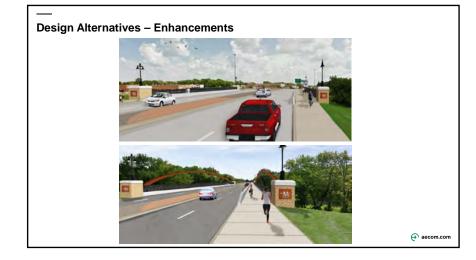




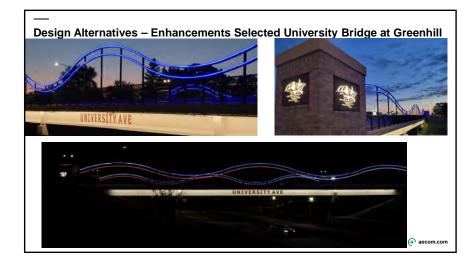


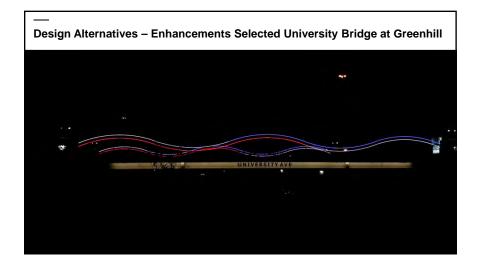










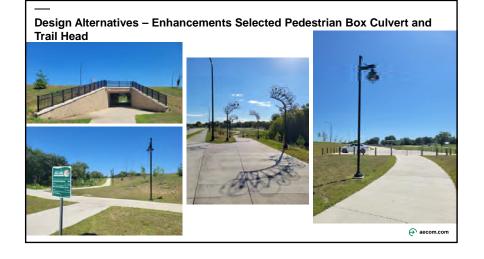
























Construction – Traffic Control and Staging Plan Complexities

- Phasing coordination when multiple stages and phases were under construction.
- Coordination with multiple jurisdictions.
- Coordination with public and adjacent businesses on traffic changes.







Phases 1 and 2 – Weekly Traffic Update Posted to Facebook and E-mailed to Stakeholders



Construction – Traffic Control and Staging Plan Complexities

- Storm Sewer Construction
 - Complex staging plan required the intake to be constructed with no outlet.
 - Staging plan also required new storm sewer system to be installed at a lower elevation than the existing outlet, and temporary connections required head pressure to drain the new system until the outlet could be constructed.

*These do not work in sump locations where the overflow is not adequate or over winter.









Construction – Utility Coordination





Public Engagement Benefits

- Public concern with accessibility during construction for individuals with disabilities.
- Maintaining access for adjacent property owners during construction.
- Minimizing ROW impacts and acquisitions.
- Support for enhancements to assist with revitalization of the corridor.
- Public understanding and buyin on the corridor.



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Public Engagement

Public Information Meetings, City Council Work Sessions and Public Hearings

- Gather Feedback
 - Existing Issues
 - Project Goals
 - Design Review Comments
 - Enhancement Alternatives
- Inform
 - Design Progression
 - Project Schedule
 - ROW Acquisition
 - Construction Progress





Public Engagement

Stakeholder Groups

- Various Corridor Businesses
 - Fast Food McDonalds and Burger King
 - Gas Stations Hy-Vee and Casey's
 - Non-Profits YMCA and EPI
 - Stores Tractor Supply
- Residential Property Owners
- Council Members
- KWWL News and Courier
- Complete Streets Advisory Committee
- · City of Cedar Falls







Public Engagement

Stakeholder Meetings

- Small Group Meetings
- Preconstruction Meeting for Each Phase
- Individual One-on-One Meetings
- Periodic Scheduled and Unscheduled Construction Site Visits
- E-mail Weekly Construction Updates



Public Engagement Tools

• Renderings

- Typical Cross Section
- Bird's Eye
- Street View
- Mockups of Alternatives
- Drone Videos
- Facebook.com/UniversityAve Waterloo/
- City Website
- Project E-mail: <u>university.avenue@waterloo-ia.org</u>
- Postcard Notices and Letters







Funding Funding Sources for the \$38M Project Included: • Transfer of Jurisdiction (TOJ) Funding (+Interest) - +\$28M • Black Hawk County Gaming Association Grant - \$750K • City of Waterloo • Sanitary Sewer Funding • Local Option Sales Tax • Storm Water Funds • Bond Funds • Waterloo Water Works

Economic Benefits

- Redevelopment Sites
 - Papa John's and Family Dollar Tax Increment Financing (TIF) District
 - Tommy's Car Wash
- New Developable Sites (12 acres)





Project Awards & Ribbon Cutting

- Iowa Concrete Paving Association
 - 2020 Portland Cement Concrete Paving Award
 - 2021 Portland Cement Concrete Paving Award
- 2021 Healthy Hometown Powered by Wellmark Community Award
 - The award recognizes Waterloo for its accomplishments in health improvement initiatives within the community, including the added trails on University Ave.



• Ribbon Cutting October 20, 2021





