



GETTING YOU THERE >>>>
COUNCIL BLUFFS INTERSTATE



2015
ANNUAL REPORT

COUNCIL BLUFFS INTERSTATE SYSTEM

Bridge construction for I-29 just south of the U.S. 275/Iowa 92 Interchange. Bridges will span new railroad corridor and Mosquito Creek.

Images on the cover page,
counterclockwise from the top left:

- » Noise wall constructed north of the new on-ramp at South Expressway.
- » Grading future I-80 Express lanes.
- » Bridge construction for I-29 northbound.
- » Construction activities near I-29 and U.S. 275/Iowa 92.



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PROGRAM OVERVIEW

Iowa DOT is in the process of reconstructing I-80, I-29 and I-480 in the Council Bluffs/Omaha metropolitan area. This comprehensive interstate redesign, known as the Council Bluffs Interstate System Improvement Program, will modernize the highway system and improve mobility and safety in the area.

The Council Bluffs Interstate System Improvement Program is the single largest endeavor in Iowa DOT's five-year Transportation Improvement Program.

PROGRAM GOALS



Modernize 18 miles of interstate



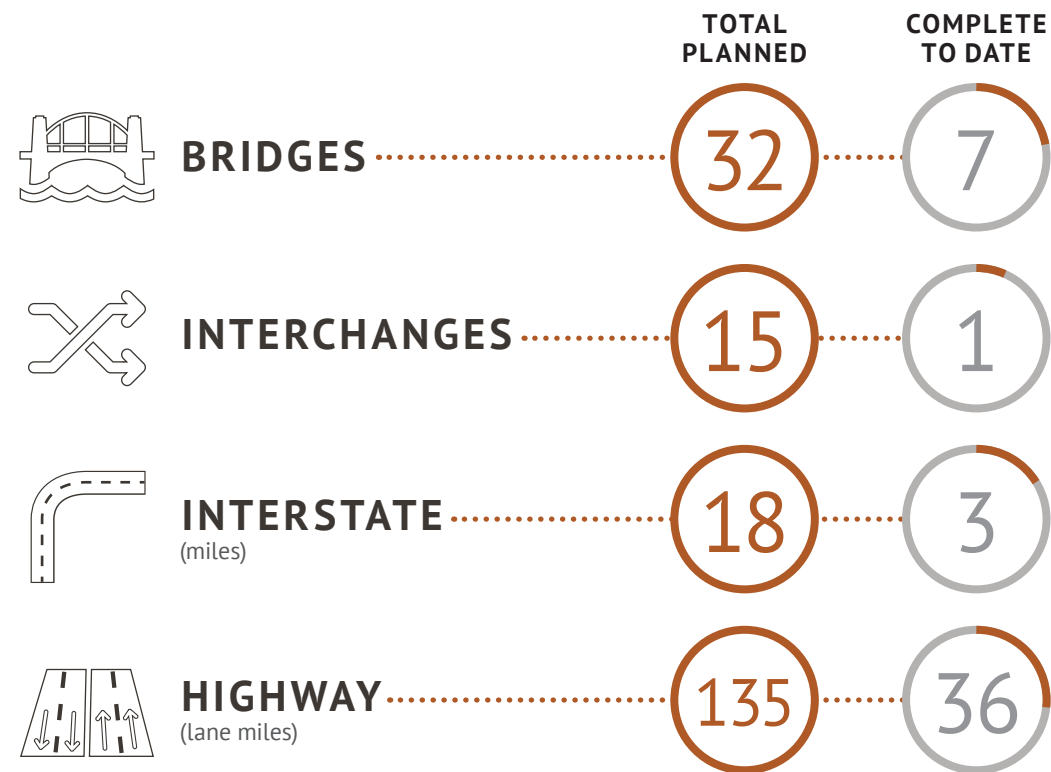
Accommodate planned development along the corridors



Reduce traffic congestion



Improve the visual landscape



2015 SNAPSHOT



Environmental Study & Preliminary Design Design Construction Design and Construction



7 Projects were designed



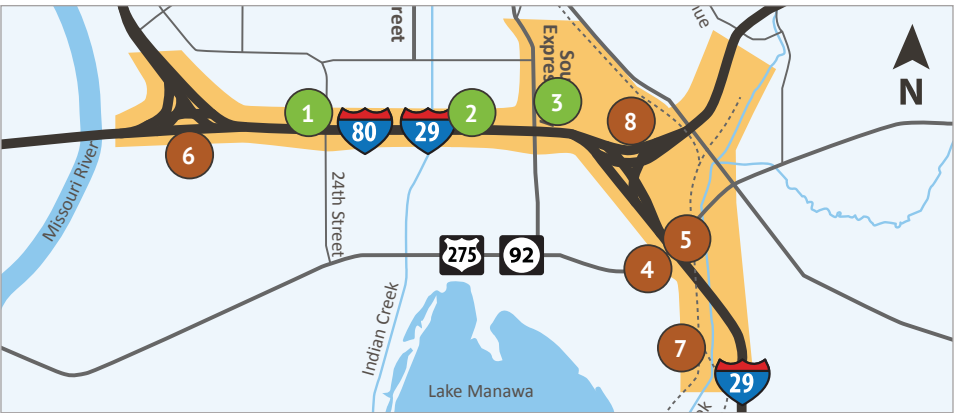
8 Projects were actively under construction

PROGRAM HIGHLIGHTS










The construction projects below were prioritized based on the highest volume of vehicles and benefits in terms of traffic management, improved safety and increased vehicle capacity in the urban area of the interstate system.

The Council Bluffs Interstate System Improvement Program has identified several future projects that are necessary to satisfy the overall goals of the Program.
















Map Key: The numbered dots on the map refer to the “ID” column in the tables below.



COMPLETED PROJECTS

	ID	Project Information	Actual Cost and Construction Time	
	1	Project: I-80/I-29 Dual Divided Freeway, Phase Ia Highlights: Completed fencing and landscaping work. Expanded mainline capacity from two to three lanes.	 COST  TIME	<div>✓ Actual Cost: \$16.3M</div> <div>✓ Time Spent: 1 year, 6 months</div>
	2	Project: I-80/I-29 Dual Divided Freeway, Phase Ib Highlights: Completed noisewall, interstate lanes and South Expressway/Iowa 192 entrance and exit ramps.	 COST  TIME	<div>✓ Actual Cost: \$11.3M</div> <div>✓ Time Spent: 1 year, 8 months</div>
	3	Project: East System Interchange, Phase I Highlights: Completed embankment and grading for interstate lanes.	 COST  TIME	<div>✓ Actual Cost: \$16.4M</div> <div>✓ Time Spent: 1 year, 8 months</div>

ACTIVE PROJECTS

	ID	Project Information	Cost and Construction Time	
	4	Project: I-29 & U.S. 275/Iowa 92 Interchange, Phase I Highlights: Completed reconstruction of the U.S. 275/Iowa 92 westbound bridge.	 COST  TIME	<div>\$94M</div> <div>✓ Spent-to-Date: \$89.1M</div> <div>1 year, 11 months</div> <div>✓ Spent-to-Date: 1 year, 7 months</div>
	5	Project: I-29 & U.S. 275/Iowa 92 Interchange, Phase II Highlights: Opened the new I-29 northbound lanes and reconstructed the northbound on-ramp.	 COST  TIME	<div>\$78M</div> <div>✓ Spent-to-Date: \$43.3M</div> <div>1 year, 11 months</div> <div>✓ Spent-to-Date: 9 months</div>
	6	Project: West System Interchange, Phase II Highlights: Launched construction, removed the old Indian Creek bridge and began grading for the future I-80 WB Express lanes.	 COST  TIME	<div>\$26M</div> <div>✓ Spent-to-Date: \$5.8M</div> <div>2 years</div> <div>✓ Spent-to-Date: 6 months</div>
	7	Project: Railroad Consolidation Highlights: Launched construction and began grading work for the new railroad corridor.	 COST  TIME	<div>\$13M</div> <div>✓ Spent-to-Date: \$2M</div> <div>1 year, 3 months</div> <div>✓ Spent-to-Date: 3 months</div>
	8	Project: East System Interchange - Phase IIa Highlights: Launched construction and began mobilization and early work activities.	 COST  TIME	<div>\$103M</div> <div>✓ Spent-to-Date: \$1M</div> <div>2 years, 6 months</div> <div>✓ Spent-to-Date: 2 months</div>

2015 PROJECT SPOTLIGHT

I-29 and U.S. 275/Iowa 92 Interchange

The I-29/U.S. 275/Iowa 92 Interchange reconstruction reached an important milestone in 2015 by completing the U.S. 275/Iowa 92 westbound bridges and pavement and opening them to traffic. Construction crews are currently rebuilding the eastbound bridges and adjoining pavement. The I-29 northbound lanes, entrance and exit ramps at this interchange are in the process of being reconstructed, and northbound I-29 and entrance ramp was shifted to the new bridge and pavement in late 2015.

Stakeholder coordination with the City of Council Bluffs and the U.S. Army Corps of Engineers was key in helping the project stay on schedule in coordinating levee concerns and access.

Construction of the I-29/U.S. 275/Iowa 92 Interchange will be completed in 2017.

Construction at the I-29 and U.S. 275/Iowa 92 Interchange



LONG-TERM STRATEGY

Council Bluffs Interstate System Improvement Program construction started in 2008 and is ongoing. Numerous projects will be constructed to fully implement the complete vision of the improvement program over the next seven to 10 years. Individual projects are being strategically grouped and completed to maximize improvements to the system while simultaneously minimizing the impacts of construction to Council Bluffs residents and the traveling public.

ACTIVE PROJECTS IN 2015

Projects	Winter	Spring	Summer	Fall
I-80/I-29 Dual, Divided Freeway, (Phase Ia)				
I-80/I-29 Dual, Divided Freeway, (Phase Ib)				
I-29 and U.S. 275/Iowa 92 Interchange (Phase I)				
East System Interchange (Phase I)				
I-29 and U.S. 275/Iowa 92 Interchange (Phase II)				
West System Interchange (Phase II)				
Railroad Consolidation				
East System Interchange (Phase IIa)				
East System Interchange (Phase IIb)				
Union Pacific Railroad Bridge over I-29				
I-80/I-29 Dual, Divided Freeway (Phase II)				

Design Construction

EXPANDING CAPACITY

A key goal of the Council Bluffs Interstate System Improvement Program is to reduce traffic congestion in the Council Bluffs/Omaha metro. An area that was impacted almost daily during both the morning and evening commute was the westbound lanes of I-80/I-29 west of the South Expressway Interchange. In fall of 2015, the Program increased capacity by adding an additional lane for traffic. By increasing the lanes from two to three mainline travel lanes, congestion is reduced and there are less vehicle delays during peak times.

RELATED WORK

Intelligent Traffic System, Adaptive Traffic Management Systems

Iowa DOT is not only improving the roads and bridges around Council Bluffs, but technology is also being added to improve traffic flow, respond faster to traffic conditions and improve customer satisfaction. Over the next six years, approximately 14 new dynamic message signs, 35 cameras and nearly six miles of fiber optic cable will be added to the interstate system to allow Iowa DOT to monitor traffic conditions and get timely traffic information to the traveling public.

An adaptive traffic signal system has also been implemented along South Expressway from 23rd Avenue to 32nd Avenue. The technology allows traffic signals to adjust the timing of red, yellow and green lights automatically and adapt to changing traffic patterns, which improves traffic flow and safety along this segment of South Expressway.



PUBLIC OUTREACH



A public meeting was held in April to inform the community about 2015 construction activities.



Staff attended community events, such as Celebrate CB to educate the public about the program.



Staff providing a construction area tour to students enrolled in Gateway to Engineering at St Albert High School.

6 Stakeholder Meetings

The Program held Stakeholder meetings with Elected Officials, neighborhood groups, and the general public during 2015. This included a 2015 Pre-Construction Season Public Meeting at the Program office in April 2015.



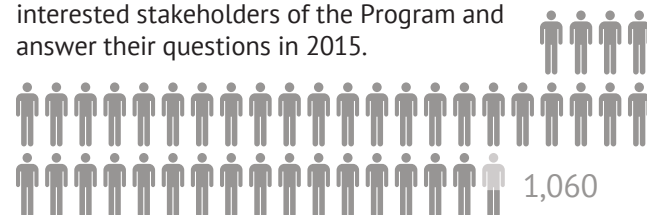
1 Community Event

The Program hosted a booth at the Celebrate CB parade to provide public information about the Program.



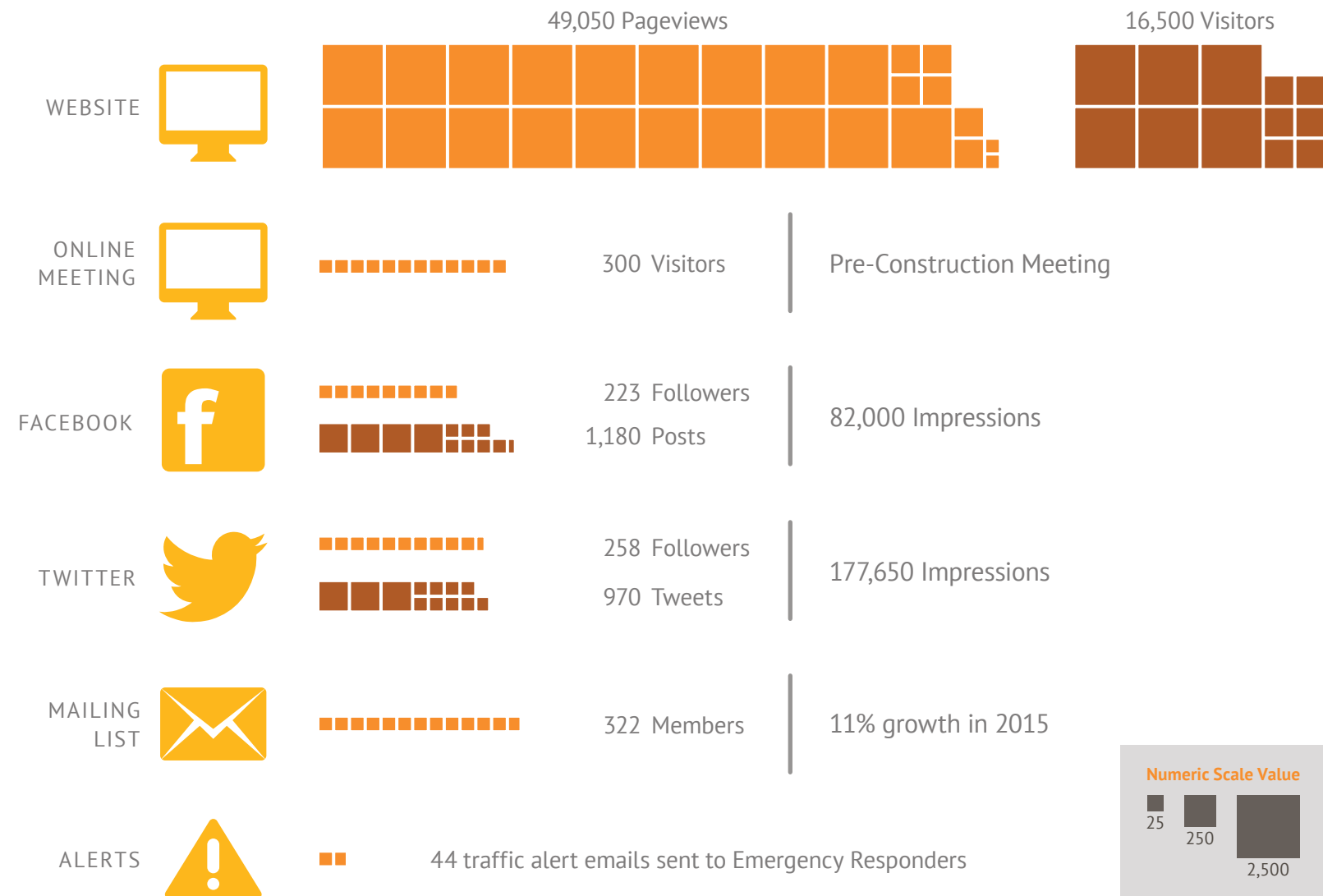
17 Guest Speaker Presentations

The Program responded to numerous requests to speak at civic group meetings and other venues to inform interested stakeholders of the Program and answer their questions in 2015.



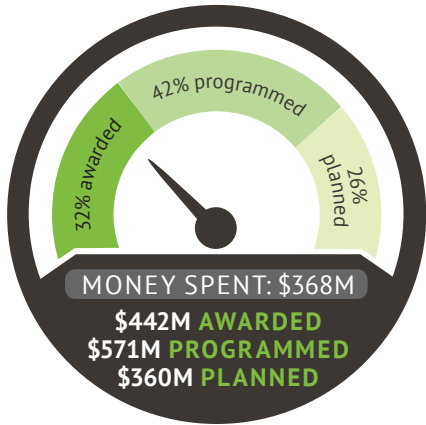
1 = 25 PEOPLE

ONLINE ENGAGEMENT IN 2015

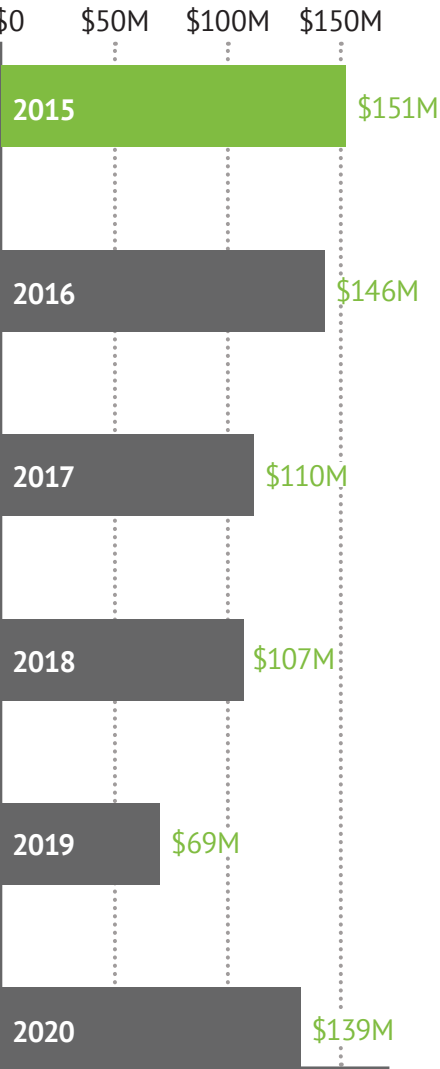


PROGRAM STATUS

The Iowa Transportation Commission and DOT recognizes that the Council Bluffs Interstate System Improvement Program is the largest interstate highway funding effort in the state's history. To successfully implement this Program, the Iowa DOT will look for all opportunities to effectively and efficiently turn this significant commitment of resources into successful delivery of highway improvement projects.



DOLLARS ALLOCATED PER YEAR



HIGHWAY IMPROVEMENT PROJECTS



PLANNED CONSTRUCTION

1	Union Pacific Railroad Bridge	11/2016-10/2018	8	I-80/I-29 Dual, Divided Freeway - Phase III	07/2019-08/2021
2	Nebraska Ave Interchange	11/2019-09/2021	9	East System Interchange - Phase III	11/2017-05/2020
3	West System Interchange - Phase II	06/2015-05/2017	10	East System Interchange - Phase IIa	11/2015-07/2018
4	I-80/I-29 Dual, Divided Freeway - Phase II	12/2016-08/2018	11	Madison Ave Interchange	11/2019-03/2022
5	East System Interchange - Phase IIb	05/2016-03/2018	12	I-29 & US 275/Iowa 92 - Phase I & II	06/2014-05/2017
6	I-80/I-29 Dual, Divided Freeway - Phase I	06/2013-07/2015	13	Railroad Consolidation	10/2015-01/2017
7	East System Interchange - Phase I	07/2014-12/2015			



BY THE NUMBERS

The Council Bluffs Interstate System Improvement Program has been active since 2008. The statistics on this page give a snapshot of the magnitude of work completed in 2015.



75,000
Square yards of concrete paving
450,000 to-date



198,000
Square feet of bridge deck poured
830,000 to-date



11,000
Linear feet of fiber installed



1,800
Tons of reinforcing steel
7,500 to-date



On-going construction south of the I-29 and U.S. 275/Iowa 92 Interchange.

4,200

Tons of structural steel for bridges
17,300 to-date



350
Construction Workers



2,300,000
Cubic yards of earthwork moved
5,000,000 to-date



750 Linear feet of retaining wall
1,800 to-date



17,000
Cubic yards of concrete poured
129,000 to-date

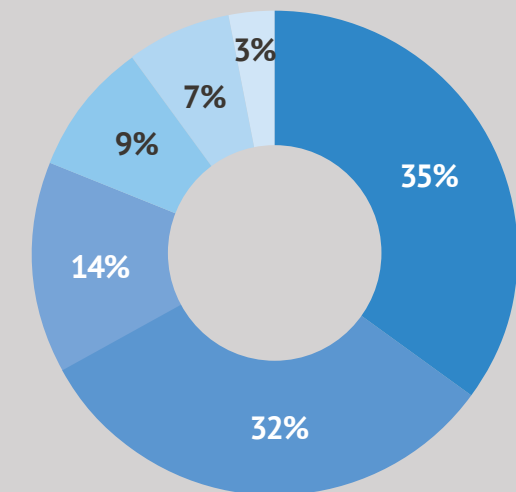


8,400
Linear feet of pipe
35,000 to-date



UTILITIES

Utility types to be cleared (removed or relocated) for highway construction.



- Electricity
- Gas (natural, petroleum)
- Sanitary Sewer
- Water
- Storm Drains
- Communications

- 291,200 linear feet of utilities impacted
- Over 1,400 utility conflicts
- \$9.3M spent to-date by Iowa DOT to relocate utilities








MOVING FORWARD



Construction projects are prioritized based on the highest volume of vehicles and benefits in terms of traffic management, improved safety and increased vehicle capacity in the urban area of the interstate system.

Future projects include construction on I-29 north of the Union Pacific Railroad Bridge to a point just west of 25th Street. Currently, the plans for this project include the I-29/I-480/West Broadway system interchange and interchanges at 41st Street, Avenue G, and Ninth Avenue. Two concepts are under consideration for these project improvements. Both concepts provide direct access to West Broadway from I-29 via one-way frontage roads as determined in the Tier 1 Final Environmental Impact Statement (EIS).






ACTIVE PROJECTS IN 2016

-  I-29 and U.S. 275/ Iowa 92 Interchange (Phase I)
-  I-29 and U.S. 275/ Iowa 92 Interchange (Phase II)
-  Railroad Consolidation
-  West System Interchange (Phase II)
-  East System Interchange (Phase IIa)

 Construction  Design

Iowa DOT is currently conducting a review of the Tier I Final EIS in addition to conducting the Tier II environmental studies, which includes environmental field surveys and conceptual design. The environmental studies will identify a single Preferred Alternative that will be carried through design of the new interchange and interstate system. Construction is anticipated to begin in Fiscal Year 2020. Funding sources have not been determined at this time, and will be considered in Iowa DOT's next five-year Transportation Improvement Program update in 2016.





Another future project addressed in the Tier 1 Final EIS is extending I-80 improvements northeast of the Madison Avenue interchange to east of the U.S. 6/ Kanesville Boulevard interchange.

-  East System Interchange (Phase IIb)
-  Union Pacific Railroad Bridge
-  East System Interchange (Phase III)
-  I-80/I-29 Dual, Divided Freeway (Phase II)
-  I-80/I-29 Dual, Divided Freeway (Phase III)

INTERSTATE SYSTEM IMPROVEMENT PROGRAM








- ① NDOR I-80: 24th St to 13th St
- ② Interstates I-29 and I-80, including the Dual, Divided Freeway
- ③ I-29 including the I-29/I-480/West Broadway System Interchange
- ④ North section of I-80 including the US 6 (Kanesville Blvd) Interchange

-  Completed Projects
-  Active Construction Projects (2015-2022)
-  Environmental Studies and Preliminary Engineering Underway
-  Future Projects

Wick drains are installed to improve drainage and accelerate earthwork compaction.

2016 KEY PROJECTS

	Status	Project Information	Cost and Construction Time
	In Progress	Project: I-29 & U.S. 275/Iowa 92 Interchange, Phase I Highlights: Construction of this phase will be complete in early summer 2016.	COST \$94M Spent-to-Date: \$89.1M TIME 1 year, 11 months Spent-to-Date: 1 year, 7 months
	In Progress	Project: I-29 & U.S. 275/Iowa 92 Interchange, Phase II Highlights: The southbound entrance and exit ramps will be closed and reconstructed during summer 2016.	COST \$78M Spent-to-Date: \$43.3M TIME 1 year, 11 months Spent-to-Date: 9 months
	In Progress	Project: West System Interchange, Phase II Highlights: Paving of the I-80 westbound lanes.	COST \$26M Spent-to-Date: \$5.8M TIME 2 years Spent-to-Date: 6 months
	In Progress	Project: Railroad Consolidation Highlights: Grading and trackwork will be completed during 2016.	COST \$13M Spent-to-Date: \$2M TIME 1 year, 3 months Spent-to-Date: 3 months
	Summer 2016	Project: East System Interchange – Phase IIb Highlights: Bridge construction and grading near South Expressway.	COST Estimated: \$24M Spent-to-Date: \$0 TIME Estimated: 2 years Spent-to-Date: Project not let yet

2016 PROJECT SPOTLIGHT

East System Interchange - Phase IIa

The East System Interchange, Phase IIa project is the largest project let to-date for the Council Bluffs Interstate System Improvement Program. The project includes the area of I-80 immediately east of South Expressway/Iowa 192 and continues to a point southwest of the Madison Avenue interchange. The area also includes I-29 from

north of U.S. 275/Iowa 92 interchange to just east of South Expressway/Iowa 192. This project has many complexities and requires coordinating with various railroads and other stakeholders. The project includes three large bridges totaling over 8,200 feet in length.



Artist rendering of the East System Interchange.



COUNCIL BLUFFS INTERSTATE SYSTEM