Existing Bridges & Project Need

- Eastbound bridge opened in 1960
- Westbound bridge opened in 1935

Narrow width, lack of shoulders, continuous need for repairs

74,000 ADT (2016)
Project Overview & Design Solutions

Additional lanes

Improved interchange at Grant St/U.S. 67

Improved interchange at River Drive

New I-74 alignment and bridge

Let's Build a BRIDGE
Bridge elevation comparison

Similar roadway height

Full shoulders

Decorative community identity elements

Glass oculus

Scenic overlook

Interchange ramps and local roadway improvements
Health Monitoring System

Sensors will be installed along the bridge and arch to monitor stresses, vibrations, and other factors.
**Stainless Steel**

Stainless steel in select locations:
- Arch anchor rods
- Bridge expansion joints
- Superstructure

**Concrete**

Various types of concrete are used:
- High-performance in select locations
- High-strength
- Self-consolidating

**Inspection/Maintenance Walkway and Traveler**

Arch Rib Walkway:
- Catwalks full length interior of arch
- Access between arches through bracing struts

**LED lighting**

Maintenance waterline

Stainless steel reinforcement in deck

Designed to withstand barge impacts
Multi-use path

City-funded hospital-size elevator

Scenic overlook

Largest mussel relocation in U.S.

Outreach

- City/County Board presentations
- Speakers bureau
- Media outreach and interviews
- Newsletters
- Road closure and bike path detour announcements
- Eblasts
- Social media
- Webcams

Stay connected!

I74RiverBridge.com

1-866-I74-4ALL

I-74 Mississippi River Bridge Virtual Reality Experience

Try it today!
Visit I74RiverBridge.com to find the nearest location.
Announced April 9, 2019

Zipper merge reduces backups on ramp and River Drive (and potentially all the way to 19th Street)

Traffic/Congestion Mitigation

- Coordination with other bridge projects
  - Centennial Bridge, Arsenal bridge, Rock Island viaduct, I-80, I-280
- Additional buses
  - Extra buses to run M-F beginning December 2018 through spring 2020 (free)
- Highway Helper
  - Emergency assistance truck along I-74
  - Begins fall 2018

Arch Construction
Build the arch in connecting pieces

Contractors

- I-74 MISSISSIPPI RIVER BRIDGE
  - Lunda Construction Co. - $322 million
- IOWA WESTBOUND VIADUCT
  - Civil Constructors Inc. - $30 million
- IOWA MAINLINE EXPANSION
  - McCarthy Improvement Co. - $34 million
- IOWA RAMP AND RETAINING WALL
  - Valley Construction Co. - $2.7 million
- ILLINOIS VIADUCT AND RAMPS
  - Kraemer North America - $82 million
- ILLINOIS MAINLINE AND RAMPS
  - Walsh Construction Co. - $84 million
870 CY of concrete (arch ribs and crossbeam)
87 concrete trucks

1,532 CY concrete (pedestal)
154 concrete trucks
Interior arch pier extended pedestal concrete pour
July 2018
fabricated arch segments delivered by barge

BETTENDORF
Trivia Fun
The EB and WB bridges are, respectively, same age as:
A. Elvis, Jim Schnoebelen
B. Dave Moeller, Kermit the Frog
C. Charlie Brown, Charlie Purcell

Trivia Fun
The River bridge has ?? arch segments?
A. = Times ISU has beaten Iowa in Football
B. = # Teams in Major League Baseball
C. = # Team in National Football league

Trivia Fun
The number of mussels relocated for the project is equivalent to:
A. Population of Cedar Rapids, IA
B. Capacity of Jack Trice Stadium
C. # of lame engineering jokes made today
D. Forecasted Volume of I-74 in 2035

Project Challenges
- BIG Project
- Complex, highly technical
- Flooding impacts
- Multi-State Jurisdiction
- Accelerated Schedule
- Building in the river
- Leading edge design and innovations
- Highly visible
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River Bridge
Lunda Construction Co.
- $322 million
- Construction started on July 15, 2017
- Westbound bridge

Bettendorf
Civil Constructors
- $30 million
- Construction started on July 10, 2017
- Westbound viaduct

Bettendorf
McCarthy Improvement
- $34 million
- Construction started on March 18, 2019
- I-74 expansion and ramps

Moline
Kraemer North America
- $82 million
- Construction started on August 10, 2017
- Embankment and viaduct

Questions?
Moline
Walsh Group

- $84 million
- Construction started on January 29, 2018
- I-74 expansion and local road reconstruction

Iowa Future Lettings

EASTBOUND VIADUCT
Tentative December 2019 letting $41.4 million

BETTENDORF ELEVATOR
Tentative Fall 2019 letting $2.3 million

RIVER BRIDGE REMOVAL
Tentative September 2020 letting $21 million

LANDSCAPING
Tentative October 2020 letting $6.2 million

Illinois Future Lettings

LANDSCAPING
Tentative November 2020 letting $1.5 million

River Bridge Removal

- Tentative December 2019 letting
- $41.4 million

- Tentative Fall 2019 letting
- $2.3 million

- Tentative September 2020 letting
- $21 million

- Tentative October 2020 letting
- $6.2 million

14' wide multi-use trail
20' pedestrian outlook
870'
774' – 5’
Project Partners

**LEAD AGENCIES**
- Iowa DOT
- Illinois Department of Transportation
- Federal Highway Administration

**PARTNERS**
- City of Bettendorf
- City of Moline
- City of Davenport
- City of Rock Island
- Bi-State Regional Commission
- Scott County
- Rock Island County

Side by side comparison