



**I-90 Jane Addams Memorial Tollway
Rebuilding and Widening Project
Fox River Bridge**

April 24, 2014

Bridge Overview

- ▶ Originally opened in 1958
- ▶ *Move Illinois* = complete rebuilding and widening
- ▶ Construction scheduled to begin in mid-summer and be complete by end of 2016



Bridge Reconstruction Highlights

- ▶ **Bridge removal and reconstruction**
 - ▶ Widening bridge from six to eight lanes plus full shoulders
- ▶ **Removal and replacement of pedestrian bridge**
 - ▶ In cooperation with Forest Preserve District of Kane County
- ▶ **Stormwater management improvements will protect Fox River and forested fen**
 - ▶ In cooperation with the Illinois Nature Preserve Commission
- ▶ **Comply with IDNR April 1 – June 15 water restrictions**

	Existing Structure	Future Structure
Span	6 lanes	8 lanes
Length	1,383 feet	1,315 feet
Width	115 feet	162 feet



Benefits of Larger Contracts for Complex Construction Sites

- ▶ **Reduces impact to the customer**
 - ▶ Ability to better coordinate maintenance of traffic
 - ▶ Shorter construction duration affecting mainline traffic
- ▶ **Improves efficiency**
 - ▶ Improved accountability, coordination and response
 - ▶ Less mobilization and demobilization
 - ▶ More schedule flexibility within the contract
- ▶ **Promotes contractor innovation**
- ▶ **Decreases costs**
 - ▶ Reduced administration and overhead costs
 - ▶ Improved economies of scale
 - ▶ Improved schedule control

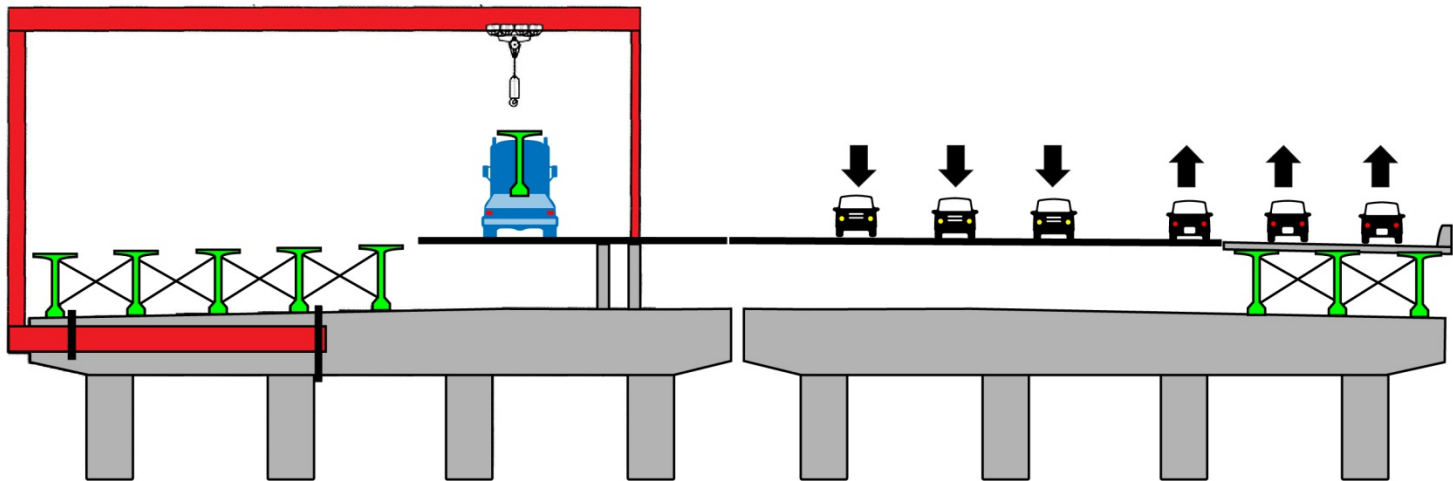


Construction Challenges

- ▶ **Limited work space due to:**
 - ▶ Fox River
 - ▶ Forested fen (east bank)
 - ▶ Com Ed lines (north side)
- ▶ **Restricted access to water from April 1 – June 15**
 - ▶ Annual water management period for fish spawning
- ▶ **Complex maintenance of traffic**
- ▶ **Building new structure while maintaining existing bridge**
- ▶ **Multiple construction seasons**



Innovative Construction Opportunity



Benefits of Overhead Gantry System

- ▶ **Extends the life of bridge by reducing longitudinal joints**
 - ▶ Reduction in maintenance costs (saving more than \$2.2 million over 75 years)
 - ▶ Eliminates construction materials and stage changes (saving \$3.6 million)
- ▶ **Reduces impact to customers**
 - ▶ Maintain same number of traffic lanes throughout construction
 - ▶ Simplify maintenance of traffic



Construction Benefits for the Environment

- ▶ **Fewer piers in Fox River**
 - ▶ Reduced from six to three
 - ▶ Longer spans through use of 90" beams



Construction Benefits for the Environment

- ▶ **Improved stormwater treatment**
 - ▶ Eliminates direct stormwater discharge into river
 - ▶ Stormwater will be captured and filtered
 - ▶ Prevents cross-contamination of stormwater with forested fen groundwater



Forested fen wetland



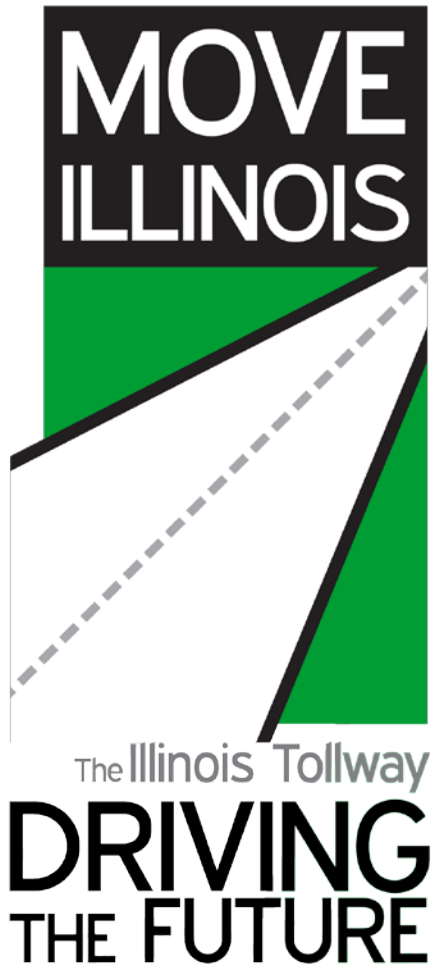
**“ There is no place like it
in the whole state.”
Dr. Henry Cowles (1923)**

Construction Benefits for the Environment

▶ Replacing pedestrian bridge

- ▶ Pedestrian bridge spans Fox River and is part of the Forest Preserve District of Kane County bike path system
- ▶ New pedestrian bridge will accommodate lift trucks to conduct bridge inspections
- ▶ Bridge will be reopened for public use after construction





THANK YOU
