



ACROW



ALLEN ROAD BRIDGE PROJECT – OVERCOMING CHALLENGES AND CONNECTING COMMUNITIES

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INTRODUCTIONS



Megan Duello

Business Development Manager - Midwest



Sean Kilian

Senior Project Manager, Kozeny Wagner

AGENDA TODAY

- About Acrow and Kozeny Wagner
- The Challenge
- The Solution
- The Result
- Q&A



ABOUT ACROW

- Established in 1951
- World leader in design, engineering and manufacture of prefabricated modular steel bridges
- Headquartered in Parsippany, NJ
- Offices across USA, Canada, Italy and UK
- Manufacturing Facilities in Milton, PA, and Lydney, Gloucestershire, UK
- Staging yards- Lafayette, NJ, Eden NC, Memphis, TN & Centralia, WA
- Proprietary steel technology derived from the Bailey Bridge
- 300+ employees

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**KOZENY
WAGNER**

**WE
BUILD
A BETTER
QUALITY
OF LIFE.**

THE CHALLENGE

- Keeping the road open to traffic 24/7
- Constructing a new bridge over two railroad lines that carry 24 trains per day
- Safety of workforce and traveling public at all times
- Steep slopes on each end
- Extremely limited overhead space
- Live powerlines!





PROJECT SITE OVERVIEW

St Louis County, Eureka, Missouri, near Aberdeen Golf Course on Allen Rd.



ORIGINAL BRIDGE



FAILING INFRASTRUCTURE



REPLACEMENT REQUIRED



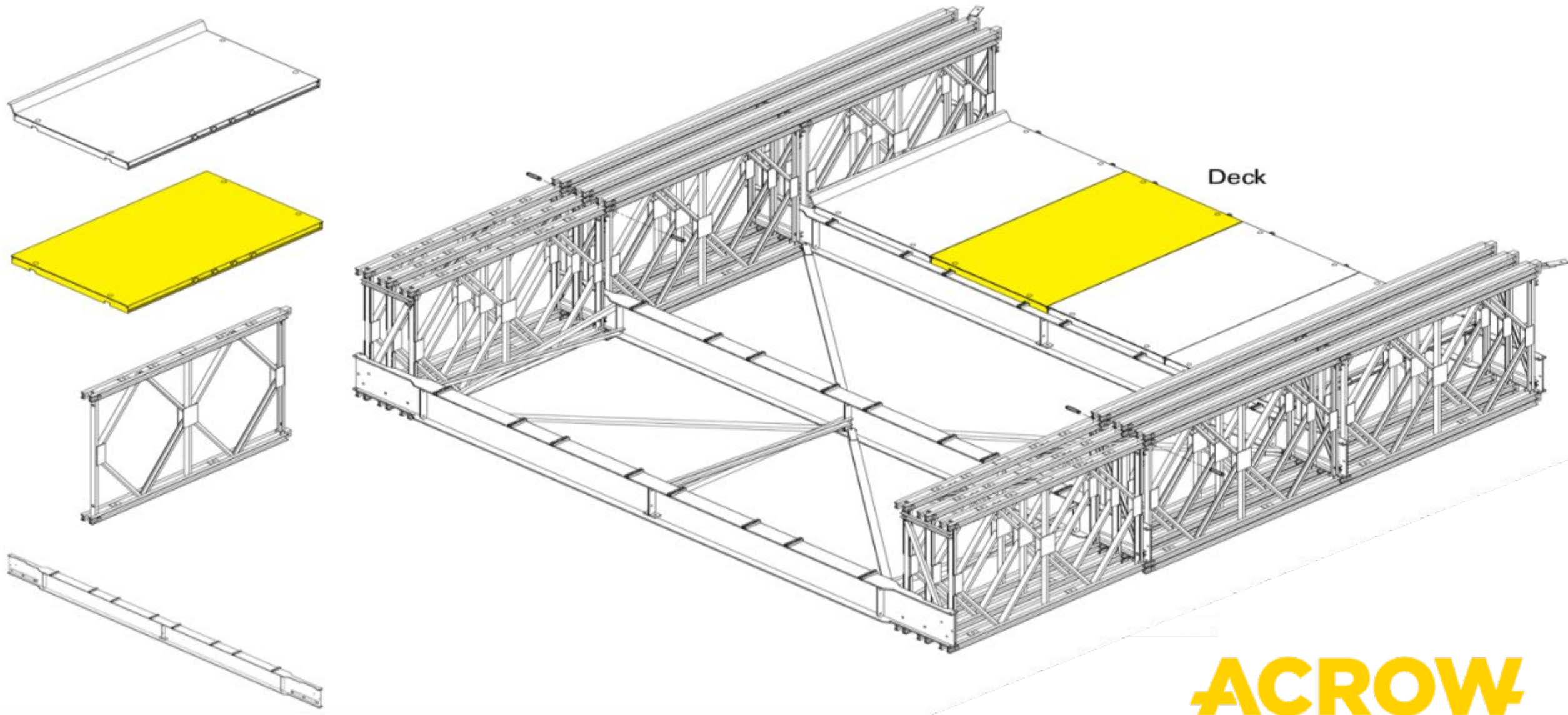
OLD BRIDGE DEMOLITION

ACROW SOLUTION

- Speed of assembly and installation
- Versatility - Efficient launch over railway
- Transportability – Steep slope
- Logistics - Minimal on-site equipment
- Technical compliance with St. Louis County requirements
- Safety over live railroad
- On-site technical assistance



MODULAR PANEL BRIDGE



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TEMPORARY BRIDGE SPECIFICATIONS

Temporary detour structure

Provided safety for workforce
during construction

October 2022 – July 2024

- Bridge: 2L24 x 133-ft
- Components: Use of existing stock
- Decking: Epoxy deck for ease of installation and rapid deployment



INSTALLATION

- Cantilevered
- Crane-Assisted
- Crane Lift-in



CANTILEVERED



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CRANE-ASSISTED

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CRANE LIFT-IN



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BRIDGE ABUTMENTS



BRIDGE ASSEMBLY



BRIDGE LAUNCH



BRIDGE LAUNCH





COMPLETED STRUCTURE



BRIDGE APPROACHES

THE RESULT = CONNECTIVITY

Navigating Railroad Work –
Overcoming complexities and
ensuring seamless
coordination

Maintaining Traffic Flow –
Keeping roads open and
minimizing disruptions

Enhancing Worker Safety –
Utilizing a temporary bridge to
create a safer work
environment



ACCELERATED BRIDGE CONSTRUCTION WITH ACROW



- **Solution Efficiency** – Allowed us to maintain traffic as required at a cost-effective price with a relatively easy installation and removal process.
- **Service & Support** – Acrow sent technical support personnel during the installation and removal processes that assisted during the fit up, launch, delaunch, and tear down phases.
- **Speed & Cost-Efficiency** – Reduced downtime and optimized costs and allowed for a temporary bridge to be launched and usable in about a 2-month time frame.
- **Safety Measures** – Ensuring compliance and best practice.

QUESTIONS?

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