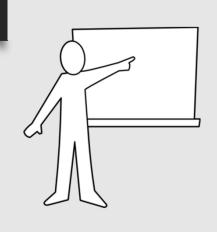
Outline

- BOBS Organization Structure
- Bridge Type and Composition/Terminology
- Asset Management
- Bridge Maintenance
- Bridge Design Proces
- Bridge Plans
- Road and Bridge Coordination
- Request for Action (RFA) Project:
- Design in Construction
- Accelerated Bridge Construction (ABC)
- Wrap up



1

ACCELERATED BRIDGE CONSTRUCTION (ABC)

What is ABC?



Bridge Construction that uses innovative planning, design, materials and construction methods to reduce bridge replacement construction time.

3

ABC Improves



- Total Project Delivery Time
- Site Constructability
- Work-zone Safety

Δ

ABC Reduces



- Traffic Impacts
- Onsite Construction Time
- Weather-Related Time Delays

5

Types of ABC



- Geosynthetic Reinforced Soil-Integrated Bridge System (GRS-IBS)
- Prefabricated Bridge Elements and Systems (PBES)
- Slide-In Bridge Construction

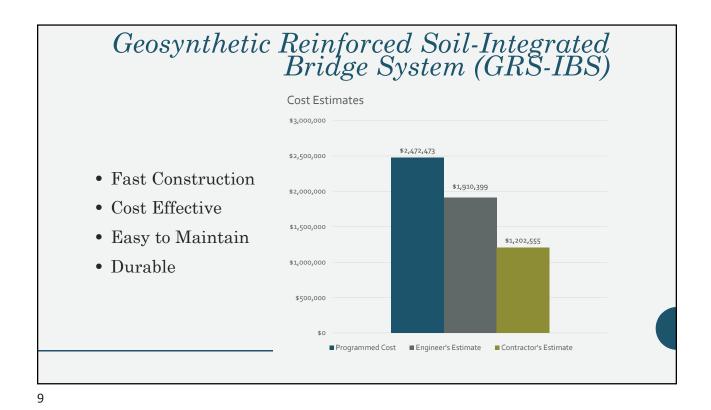
Geosynthetic Reinforced Soil-Integrated Bridge System (GRS-IBS)



7

Geosynthetic Reinforced Soil-Integrated Bridge System (GRS-IBS)





Geosynthetic Reinforced Soil-Integrated Bridge System (GRS-IBS)



Prefabricated Bridge Elements and Systems (PBES)



- Minimizes Traffic Disruption Duration
- Improved Constructability
- Increased Quality

11

Precast Decked Beams





Precast Decked Beams



13

Slide-In Bridge Construction

- Minimized Traffic Disruption
- Reduced MOT Cost
- Increased Quality





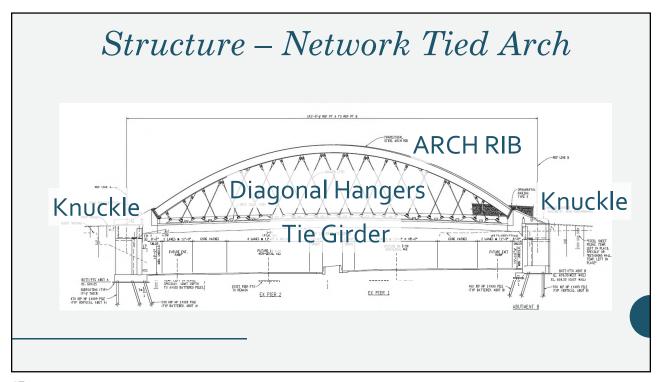
Slide-In Bridge Construction (SPMT)

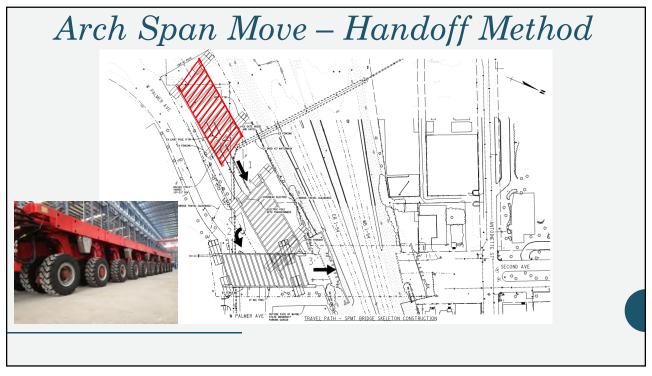


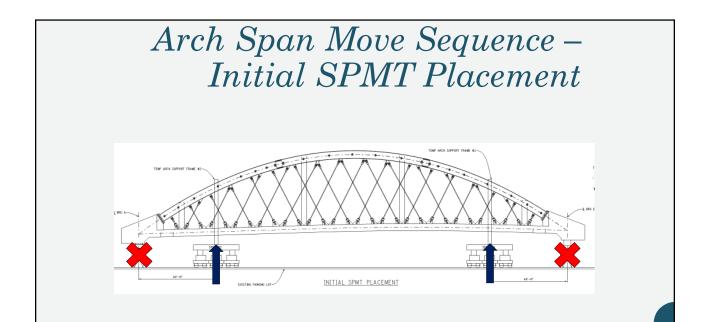
2nd Ave over I-94

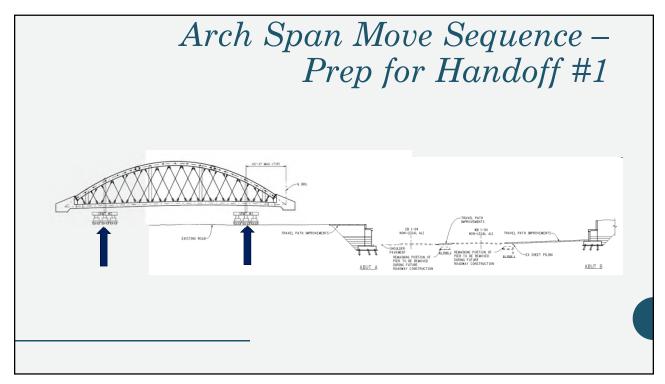
- 245-ft Network Tied Arch
- Spans Future I-94 Alignment
- Challenge of Conventional Construction

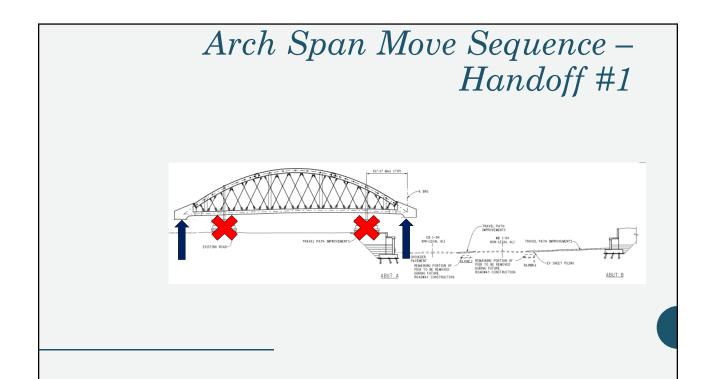


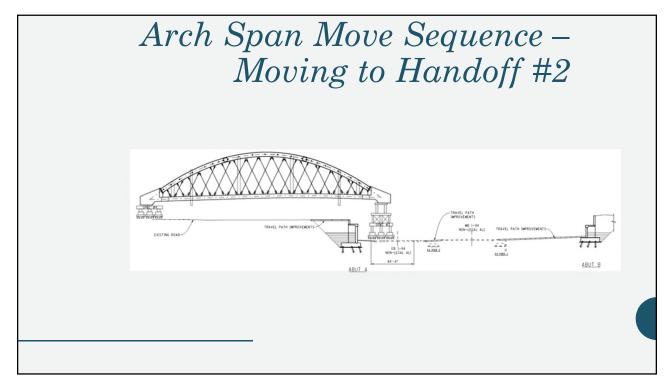




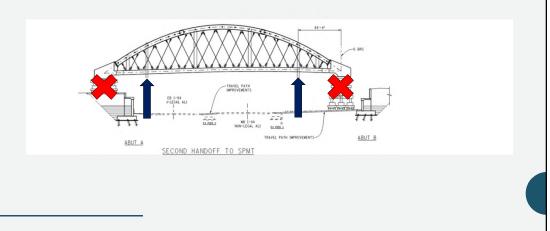




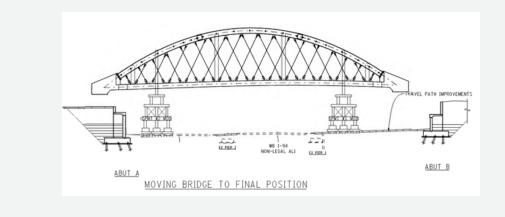


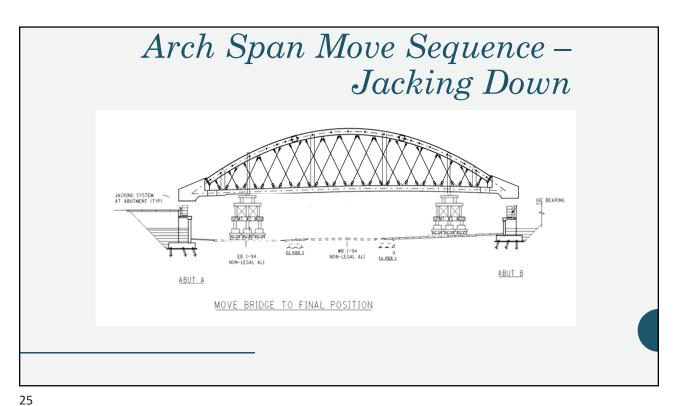


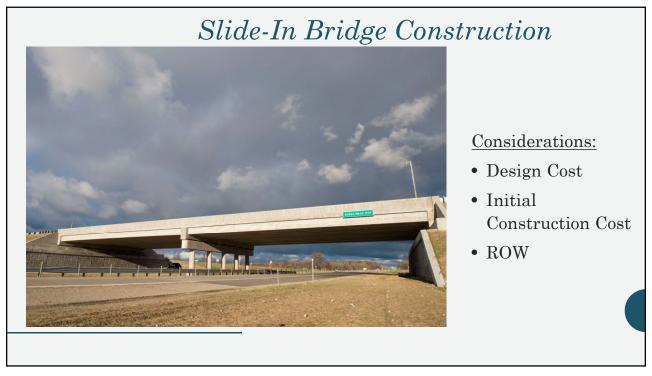




Arch Span Move Sequence – Move to Final Position







Wrap-Up



ABC can improve...

- Mobility
- Quality
- Cost

There is a time and place where ABC is best used

- Limitations
- Design Complexity
- Site Constraints