Adding Value to Kentucky’s Bridge Program

2019 KAMM Conference
September 17, 2019
Bridging Kentucky Overview

Major Undertaking

- Improve safety and soundness of Kentucky bridges
- Focus on protecting current structures
- Restore to appropriate capacities
Bridging Kentucky Overview

Commitment to the Commonwealth

- Rehabilitate, repair, or replace bridges (state, county & local)
- Estimated $700 million over six years
- Deliver all bridges for construction by 2024

1,000 bridges
$700 million
6 years
Bridging Kentucky Overview

Statewide Initiative

- Bridges in all 120 counties
- Distributed across the Commonwealth
- Nearly 1 million daily crossings
Bridging Kentucky Overview

Development Progress

Created program in mid-2018

- Set up team/coordinate with KYTC
- Assess all 1000+ bridges
- Developed Program Charter
- Met with industry
- Prioritized needs
Bridging Kentucky Overview

Progress to date

- Let to construction (208)
- Open to traffic (85)
2019 Project Awards/Tentative Lettings

1Q: 69
2Q: 42
3Q: 65
4Q: 100 (D/B)
Major Savings

Program costs

Design:
SYP budget $60 million
Est. BKY cost $50 million
Savings $10 million

Construction (projects awarded):
SYP budget $135.6 million
Actual award $114.2 million
Savings $21.4 million
Additional value

Program team services

• Program management/controls
• Screening/prioritization
• Construction management/procurement
• Standard designs
• D/B development/oversight
• Initial bridge inspections
• Program communications
Program Charter

Key benefits

• Established close connection with FHWA
• Set tone for expedited program delivery
• Defined parameters for entire program
• Allowed new processes and procedures
Project Development Process

EXPEDITED PROJECT DEVELOPMENT TIMELINE

- **20 WEEKS**
  - Site Assessment

- **16 WEEKS**
  - 30% Plans

- **11 WEEKS**
  - 90% Plans

- **8 WEEKS**
  - PSE

- **0 WEEKS**
  - Project Letting
Delivery Mechanisms

Using multiple models to deliver program

• Individual/legacy projects
• Project bundles
  ➢ Varied bundle sizes
  ➢ Based on location, timeline, scope of work
  ➢ Evolving strategies
• Design-Build project

<table>
<thead>
<tr>
<th>OPTIONS FOR PROJECT DELIVERY</th>
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<tbody>
<tr>
<td>DBB</td>
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<tr>
<td>114</td>
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Design Build No. 1 Overview

- Address significant needs in Eastern Kentucky
- 106 bridges
- All bridge replacement projects
- KYTC Districts 10^{(9)}, 11^{(50)} and 12^{(47)}
Why Design Build?

• Concentration of bridges in Eastern Kentucky
• Projects with same scope
• Responsive to letting results
  ➢ Fewer bidders per project
  ➢ Bids trending higher
Potential Design-Build Benefits

- Lower unit costs
- Expedited project delivery
- Faster construction time
- Less cost growth
- Shared risk

Traditional

- Owner
- Designer
- Subconsultants
- Contractor
- Subcontractors

Design-Build

- Owner
- Design/Build Team
<table>
<thead>
<tr>
<th>Date</th>
<th>Submittal</th>
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</thead>
<tbody>
<tr>
<td>June 3, 2019</td>
<td>Issue Request for Qualifications. (RFQ)</td>
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<tr>
<td>June 18, 2019</td>
<td>Pre-Proposal Meeting (Mandatory)</td>
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<tr>
<td>July 1, 2019</td>
<td>Statements of Qualifications Due</td>
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<tr>
<td>July 15, 2019</td>
<td>Short-list</td>
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<tr>
<td>July 15, 2019</td>
<td>Issue Draft Instructions to Proposers (ITP)</td>
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<tr>
<td>July 30, 2019</td>
<td>Pre-Proposal Meeting</td>
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<td>July 31-Aug. 2, 2019</td>
<td>Initial one-on-one Meetings</td>
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<tr>
<td>Aug. 28-Aug. 29, 2019</td>
<td>Second round of one-on-one meetings</td>
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<tr>
<td>September 5, 2019</td>
<td>Last Day for Questions</td>
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<tr>
<td>September 6, 2019</td>
<td>Responses to all Questions Issued</td>
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<tr>
<td>September 9, 2019</td>
<td>Final ITP Issued</td>
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<tr>
<td>September 30, 2019</td>
<td>Technical Proposals Due</td>
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<tr>
<td>October 7, 2019</td>
<td>Price Proposals Due</td>
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<tr>
<td>October 14, 2019</td>
<td>Project Award</td>
</tr>
<tr>
<td>November 1, 2023</td>
<td>Project Completion Date</td>
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Questions?

More Information
BridgingKentucky.com

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