E-Construction in Illinois

Illinois Asphalt Pavement Association
e-Construction Webinar March 26, 2020
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Why E-Construction?

- Create
- Collect
- Store
- Disseminate
- Utilize
Why E-Construction?

• Reduce dependence on paper processes
• Expedite communication/collaboration
• Enable efficient retrieval and use of data
Why E-Construction?

• Keep electronic data electronic
• Capture data once use it by many
• Leverage data in decision making

Const. & Mat. Mgmt. Sys. (CMMS)

CMMS will Replace:
• Construction Records System (ICORS)
• Materials Record System (MISTIC)
• Contract Payment Management System (BCM)

CMMS – Web based contract administration solution
Existing Records Systems

- Construction Records System developed in 1991 (Microsoft Access platform on local computers)
- Materials Record System developed in the 1970’s (hierarchal mainframe database developed using COBOL)
- Contract Payment Management System developed in 1992 (hierarchal mainframe database developed using COBOL)

Existing Contract Management

Heavy reliance on paper driven processes and re-entry of data into disconnected systems
Web-based Contract Management

- Facilitate paperless contract administration
- Enable electronic submission of construction documentation by stakeholders
- Enable electronic approvals and expedite decision making

Web-based Contract Management

- Provide secure digital management of construction data
- Allow distribution of construction data to all project stakeholders through internet connected devices
Const. & Mat. Mgmt. Sys. (CMMS)

- Issued a Request for proposals
- Selected ExeVision Inc.
- CMMS is being rolled out in a series stages

CMMS

- Began releasing epic 1 functionality in April 2019
- Currently using CMMS on ±500 contracts statewide
- Includes State let State and State let local agency contracts
CMMS

- Diary
- Quantity Book
- Pay Estimates
- Changes
- Documentation
- Reports

CMMS

- Materials Functionality Coming Soon
  - Mat. Assignments and Jobsite Tracking
  - Mat. Vendor Mgmt.
  - Mat. Assoc. to Vendors
  - Mat. Spec. Mgmt.
  - Mat. Test Mgmt.
  - Mat. Mix Designs
CMMS

- Mat. Lab. Mgmt.
- Mat. Inspector Mgmt.
- Mat. HMA & PCC Plant Insp. Mgmt.

CMMS

- Replace Contract Payment Mgmt. System
- Workflow Enhancements
CMMS

Electronic Approvals

<table>
<thead>
<tr>
<th>Position</th>
<th>Approval</th>
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<tbody>
<tr>
<td>Resident</td>
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<tr>
<td>Field Engineer</td>
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<tr>
<td>Construction Engineer</td>
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<td>Project Imp Engineer</td>
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<td>Regional Engineer</td>
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CMMS

Illinois Department of Transportation

Illinois Asphalt Pavement Assn.

Illinois Road and Transportation Builders Association
CMMS

- Create Date: 4/25/2019 8:18:16 AM
- Company Number: ST0002
- Subcontractor Name: Cougar Concrete Construction

- Create Date: 4/25/2019 8:18:16 AM
- Company Number: ST0005
- Subcontractor Name: Huskie Traffic Corp.

- Create Date: 4/25/2019 8:18:16 AM
- Company Number: ST0001
- Subcontractor Name: Illini Electric

- Create Date: 4/25/2019 8:36:35 AM
- Company Number: ST0006
- Subcontractor Name: Leatherneck Fence LLC

- Create Date: 4/25/2019 8:18:16 AM
- Company Number: ST0004
- Subcontractor Name: Panther Painting

- Create Date: 6/7/2019 9:24:32 AM
- Company Number: 4914
- Subcontractor Name: Quality Saw & Seal, Inc.

- Create Date: 4/25/2019 8:18:16 AM
- Company Number: ST0003
- Subcontractor Name: Sakuto Striping

CMMS

- Date: 12/7/2019
- Weather: Sunny
- Temperature: 50
- Wind: Calm
- Precipitation: None
- Comments: None

- Contracting Item: HMA Paving
- Working Days Charged: 0
- Workable Days: 1
- Comments: Adjusted traffic control for winter stage.

- Name: Huskie Traffic Corp
- Hours Worked: 4
- Persons Working: 4
- Comments: Adjusted traffic control for winter stage.
CMMS

http://www.idot.illinois.gov/

e-Ticket Information Section 102.01-5

http://www.idot.illinois.gov/