

# SIIMS

(Structure Inventory and Inspection Management System)

Bridges and Structures Bureau  
Bridge Maintenance and Inspection  
Overview of Bridge Inspection Data Collection

Scott Neubauer


[Scott.Neubauer@iowadot.us](mailto:Scott.Neubauer@iowadot.us)

515-239-1165


# Today's Agenda

- General SIIMS User Info
- Load Rating Form
- Rating Methods
- SIIMS Features and Use
- Report Types
- New NBIS
- FHWA Metric Review
- SNBI





DMV TRAVEL BUSINESS FORMS CONTACT US A-Z INDEX



WHAT CAN WE HELP YOU FIND?

KNOW WHAT YOU'RE LOOKING FOR? [TRY OUR A-Z INDEX](#)

SIIMS

SIIMS HOME

BRIDGE STATUS CHANGE FORM 107

CONTACTS

RESOURCES AND INFORMATION

TRAINING INFORMATION

FAQS

The maintenance is completed for our SIIMS application.  
If you are having issues accessing the site with the new URL and username, please send an e-mail to [siims.support@iowadot.us](mailto:siims.support@iowadot.us)

*In order to have an accurate 2022 inventory for the NBI submittal, replaced or removed structures are not archived from now until the submittal is complete.*

*These structures will be removed from the SIIMS inventory shortly after a valid tape is submitted.*

*Although notifications regarding the replaced or removed structures cannot be eliminated, these are not a concern during this time frame and will be properly handled by Iowa DOT personnel.*

The Iowa Department of Transportation's (DOT) Structure Inventory and Inspection Management System (SIIMS) is the single source location for entering and reviewing condition information on all Iowa bridges, both local and state owned. The system offers a variety of features and capabilities.

[Browser Recommendation](#)

[Account Management](#)

CURRENT USERS

Already have a SIIMS account? Access SIIMS or update your account information.

To manage the number of active SIIMS users, user access will be audited. Users who have not logged into SIIMS for five years or more will be deleted.

LOGIN TO SIIMS

UPDATE ACCOUNT FORMS

NEW USERS

Are you a new SIIMS user? Get set up with a new account.

REGISTER AS NEW USER

## NEW USERS - OBTAINING SYSTEM ACCESS

YOU MUST BE REGISTERED WITH SIIMS AS A NEW USER TO HAVE APPROPRIATE ACCESS.

After completing one of the following forms, you will receive a confirmation that your SIIMS account is active when access is available. You can then LOGIN TO SIIMS.

### BRIDGE OWNER FORM

Bridge owners are asked to inform the Iowa DOT's Bridges and Structures Bureau if they are bridge owners by filling out the bridge owner form. This will also allow access to bridges in SIIMS.

### BRIDGE INSPECTOR FORMS

#### PROGRAM MANAGERS

#### TEAM LEADERS

Bridge inspection program managers and team leaders may now apply for accreditation by the Iowa DOT's Bridges and Structures Bureau, to lead/conduct NBIS inspections. Certification, by the DOT, is mandatory to access SIIMS for the purpose of performing bridge inspections in Iowa. Complete the bridge inspector form. The form is available to, and may be used by staff members with county, city, state and the federal government in addition to consulting firms and private practices. A program manager is also granted load rating access.

### BRIDGE LOAD RATING FORM

A professional engineer, registered in Iowa, is required to register to gain access to SIIMS for the purpose of load rating bridges. Complete the load rating form. The form is available to, and may be used by engineers with county, city, state and the federal government in addition to consulting firms and private practices.

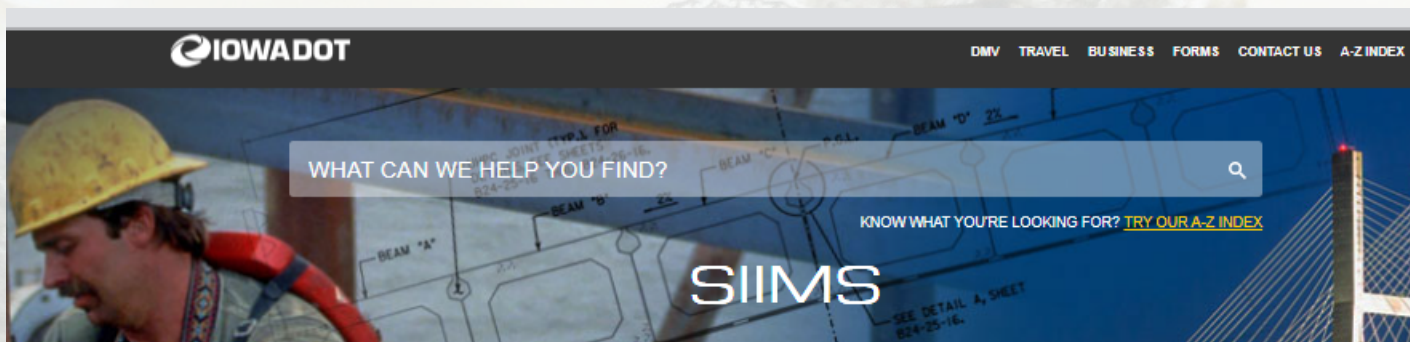
### BRIDGE INSPECTION DATA ENTRY FORM

Any individual that will be entering data for the program manager or team leader is required to complete the data entry form.

### BRIDGE INFORMATION FORM

Individuals desiring to view a Structure Inventory and Appraisal form for a bridge in Iowa, that do not qualify for any of the other positions, should complete the bridge information form.

The bridge information form is also available for consulting agencies who are doing design work for the Iowa DOT and need access to inspection reports and records for the existing structure.



#### [SIIMS HOME](#)

[BRIDGE STATUS CHANGE FORM 107](#)

[CONTACTS](#)

[RESOURCES AND INFORMATION](#)

[TRAINING INFORMATION](#)

[FAQS](#)

The maintenance is completed for our SIIMS application.

If you are having issues accessing the site with the new URL and username, please send an e-mail to [siims.support@iowadot.us](mailto:siims.support@iowadot.us)

*In order to have an accurate 2022 inventory for the NBI submittal, replaced or removed structures are not archived from now until the submittal is complete.*

*These structures will be removed from the SIIMS inventory shortly after a valid tape is submitted.*

*Although notifications regarding the replaced or removed structures cannot be eliminated, these are not a concern during this time frame and will be properly handled by Iowa DOT personnel.*

The Iowa Department of Transportation's (DOT) Structure Inventory and Inspection Management System (SIIMS) system is the single source location for entering and reviewing condition information on all Iowa bridges, both local and state owned. The system offers a variety of features and capabilities.

[Browser Recommendation](#)

[Account Management](#)

#### CURRENT USERS

Already have a SIIMS account? Access SIIMS or update your account information.

To manage the number of active SIIMS users, user access will be audited. Users who have not logged into SIIMS for five years or more will be deleted.

[LOGIN TO SIIMS](#)

[UPDATE ACCOUNT FORMS](#)

#### NEW USERS

Are you a new SIIMS user? Get set up with a new account.

[REGISTER AS NEW USER](#)





- [SIIMS HOME](#)
- [BRIDGE STATUS CHANGE FORM 107](#)
- [CONTACTS](#)
- [RESOURCES AND INFORMATION](#)
- [TRAINING INFORMATION](#)
- [FAQS](#)

## EXISTING USER INFORMATION CHANGE FORMS

For current SIIMS users, forms have been provided in order to properly maintain contact information, appropriate roles and asset security for the application.

LOCAL PUBLIC AGENCY USERS

CONSULTANT USERS



# Local Public Agency Users Form

## LOCAL PUBLIC AGENCY CHANGE FORMS



When you have had a qualification change your bridge inspection accreditation by the Iowa DOT's Bridges and Structures Bureau to lead/conduct NBIS inspections should be reviewed. Complete the change inspector role form if any of the following events have occurred: obtained professional license, attended additional inspection training, or obtained appropriate years of experience of inspection.

[CHANGE INSPECTOR ROLE FORM](#)

When the local public agency experiences a change in the contact for bridge ownership either by retirement or change of employment, complete the bridge owner form.

[BRIDGE OWNER FORM](#)

When the local public agency changes the agency under contract to complete bridge inspections, the local public agency completes the change program manager form.

[CHANGE PROGRAM MANAGER FORM](#)

When you have had a change in employment or other contact information has changed, complete the change contact information form found under forms. The changes include any or all of the following: employer, e-mail address, and phone numbers. If the change in employment will also change what role will be required for you in SIIMS, please also complete the change inspector role form.

[CHANGE CONTACT INFORMATION FORM](#)

# Consultant Users Form

## CONSULTANT CHANGE FORMS



When you have had a qualification change your bridge inspection accreditation by the Iowa DOT's Bridges and Structures Bureau to lead/conduct NBIS inspections should be reviewed. Complete the change inspector role form if any of the following events have occurred: obtained professional license, attended additional inspection training, or obtained appropriate years of experience of inspection.

[CHANGE INSPECTOR ROLE FORM](#)

When you have had a change in employment or other contact information has changed, complete the change contact information form found under forms. The changes include any or all of the following: employer, e-mail address, and phone numbers. If the change in employment will also change what role will be required for you in SIIMS, please also complete the change inspector role form.

[CHANGE CONTACT INFORMATION FORM](#)



# SIIMS Contacts

- SIIMS HOME
- BRIDGE STATUS CHANGE FORM 107
- CONTACTS**
- RESOURCES AND INFORMATION
- TRAINING INFORMATION
- FAQS

## CONTACTS

### GENERAL BRIDGE INSPECTION

Scott Neubauer  
Bridges and Structures Bureau  
Iowa Department of Transportation  
Phone: 515-239-1165  
E-mail: [scott.neubauer@iowadot.us](mailto:scott.neubauer@iowadot.us)

### GENERAL SIIMS INFORMATION

Kevin Vrchoticky  
Bridges and Structures Bureau  
Iowa Department of Transportation  
Phone: 515-239-1648  
E-mail: [siims.support@iowadot.us](mailto:siims.support@iowadot.us)

### LOCAL AGENCY BRIDGE INSPECTION

Eric Souhrada  
Bridges and Structures Bureau  
Iowa Department of Transportation  
Phone: 515-233-7720  
E-mail: [eric.souhrada@iowadot.us](mailto:eric.souhrada@iowadot.us)

### COMPUTER / CONNECTION PROBLEMS

Iowa DOT help desk  
Information Technology Division  
Iowa Department of Transportation  
Phone: 515-239-1075  
E-mail: [siims.support@iowadot.us](mailto:siims.support@iowadot.us)

# Inspection Training Courses

## TRAINING INFORMATION

Please register for the courses you are interested in taking through the [Iowa Local Technical Assistance Program](#)



The Upcoming Events are listed by month with dates of course and additional information provided through the linked title of the course.

Use the Register Now links for each course to register for the upcoming event. The link is no longer available when no seats remain.

SIIMS HOME

BRIDGE STATUS  
CHANGE FORM 107

CONTACTS

RESOURCES AND  
INFORMATION

TRAINING  
INFORMATION

FAQS

# FAQ information

SIIMS HOME	FREQUENTLY ASKED QUESTIONS (FAQS)
BRIDGE STATUS CHANGE FORM 107	+ Browser Recommendation
CONTACTS	+ FHWA submittal
RESOURCES AND INFORMATION	+ Edit asset values
TRAINING INFORMATION	+ Changes to the bridge data without an inspection
FAQS	+ New structures
	+ Remove structure from the inventory
	+ NBI 90 date not changed
	+ Extended Inspection Frequency
	+ Critical Feature Inspections
	+ NBI Designations
	+ Bridge ownership errors
	+ Corrections to approved reports
	+ Forms form
	+ Manage Working Set
	+ Vertical clearances
	+ Program Manager Assignment
	+ Inspector certification
	+ Account Management
	+ Test bridges
	+ Reports
	+ Logout



# Load Rating Form

**Load Rating Bridge Report Tab**

FHWA # (Item 8):  Report By:  Date:

BRIDGE ID:  Year Built (Item 27):  Year Reconstructed (Item 106):

Width C-C:  Str Length:  Bridge Structure Type (Item 43):

45 No. Spans Main Unit:  Total Spans:

**STRUCTURAL INVENTORY AND APPRAISAL:**

Design Load (Item 31):  Lanes:

Operating Rating (Item 64):  Tons/Rf Rating Method (Item 63):

Operating Rating is controlled by:  critical location:

Inventory Rating (Item 66):  Tons/Rf Rating Method (Item 65):

Inventory Rating is controlled by:  critical location:

Comment:




☐ Calculations attached

Deck (Item 58):  Superstructure (Item 59):  Culvert (Item 62):

Bridge Posting (Item 70):  Posting Status (Item 41):  Restriction Description:

Design Standard (If applicable):  [Iowa Load Rating Vehicles](#)

**Load Rating Table**

Load Type	One Lane Traffic			Multi Lane Traffic			Tons	Posting Sign
	Type 4	Type 3	Tons	Type 4	Type 3	Tons		
Straight Truck	<input type="text"/> SU4 <input type="text"/> SU6	<input type="text"/> SU5 <input type="text"/> SU7	<input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> SU4 <input type="text"/> SU6	<input type="text"/> SU5 <input type="text"/> SU7	<input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/>	
Truck - Semi-trailer	3S3A <input type="text"/> 3S3B <input type="text"/>	3S2 <input type="text"/> 4S3 <input type="text"/>	<input type="text"/> <input type="text"/>	3S3A <input type="text"/> 3S3B <input type="text"/>	3S2 <input type="text"/> 4S3 <input type="text"/>	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>	
Truck - Full-trailer	3-3 <input type="text"/>	5-2 <input type="text"/>	<input type="text"/>	3-3 <input type="text"/>	5-2 <input type="text"/>	<input type="text"/>	<input type="text"/>	
Emergency Vehicle	EV2 <input type="text"/>	EV3 <input type="text"/>	<input type="text"/>	EV2 <input type="text"/>	EV3 <input type="text"/>	<input type="text"/>	<input type="text"/>	Emergency Vehicle
Implement of Husbandry	IOH1 <input type="text"/>	<input type="text"/>	<input type="text"/>	IOH1 <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Implement of Husbandry

Permit Vehicle Adequacy: 90K  100K Crane Axle Group  136K A  136K B  150K  All Systems Permit

Name:  Date:

License No.:  License renewal date December 31,

Comments:

# Load Rating Information

Bridge Data Tab New					
Bridge Name: <input type="text"/>			Bridge ID: <input type="text"/>		
43. Main Structure Type (A): <input type="text" value="10 - Truss Thru"/>					
43. Main Structure Type (B): <input type="text" value="3 - Steel"/>					
8. FHWA No. <input type="text"/>		90. Inspection Date: <input type="text" value="05/26/2021"/>			
Report Type: <input type="text" value="In-Depth and Fracture Critical"/>		Inspector Name: <input type="text"/>			
3. County: <input type="text"/>		9. Location: <input type="text"/>			
45 No. Spans Main Unit: <input type="text" value="1"/>		City: <input type="text"/>			
Scour Critical: <input type="text" value="8 - Stable - Excellent Condition"/>		22. Owner: <input type="text" value="02 - County Highway Agency"/>			
41 Open, Posted Or Closed: <input type="text" value="P"/>	Est. Remaining Life: <input type="text" value="4"/> Yrs.	106. Yr. Reconst.: <input type="text" value="0"/>	29 ADT: <input type="text" value="15"/>		
Lat.: <input type="text"/>	Long.: <input type="text"/>	27. Year Built: <input type="text" value="1968"/>	28. Lanes On: <input type="text" value="2"/>		
Inspection Agency: <input type="text"/>					
LOAD POSTING TABLE					
Type	Recommended Tons	Actual Tons	REMARKS		
Straight Truck or Gross Weight Limit	<input type="text"/>	<input type="text" value="21 TONS"/>	<input type="text"/>		
Truck - Semi-trailer	<input type="text"/>	<input type="text"/>	<input type="text"/>		
Truck - Full-trailer	<input type="text"/>	<input type="text"/>	<input type="text"/>		
Emergency Vehicle	<input type="text"/>	<input type="text"/>	<input type="text"/>		
Implement of Husbandry	<input type="text"/>	<input type="text"/>	<input type="text"/>		
SIGNING					
Type	Legibility	Visibility	REMARKS		
Advanced Posting	<input type="text"/>	<input type="text"/>	<input type="text"/>		
Posted Loads	<input type="text" value="Good"/>	<input type="text" value="Good"/>	<input type="text" value="21 tons"/>		
Narrow	<input type="text"/>	<input type="text"/>	<input type="text"/>		
One Lane	<input type="text"/>	<input type="text"/>	<input type="text"/>		
Object Markers	<input type="text" value="Good"/>	<input type="text" value="Good"/>	<input type="text"/>		
APPROACH					

# Load Rating Form

**Load Rating Bridge Report Tab**

FHWA # (Item 8):  Report By:  Date:

BRIDGE ID:  Year Built (Item 27):  Year Reconstructed (Item 106):

Width C-C:  Str Length:  Bridge Structure Type (Item 43):

45 No. Spans Main Unit:  Total Spans:

**STRUCTURAL INVENTORY AND APPRAISAL:**

Design Load (Item 31):  Lanes:

Operating Rating (Item 64):  Tons/Rf Rating Method (Item 63):

Operating Rating is controlled by:  critical location:

Inventory Rating (Item 66):  Tons/Rf Rating Method (Item 65):

Inventory Rating is controlled by:  critical location:

Comment:   
 RATINGS FROM IOWA DOT REPORT TR-785 (JAN. 2021) FOR A 130' J30-06 STANDARD BRIDGE WITH 2'-8" OPEN RAIL FOR ALL SKEWS.




☐ Calculations attached

Deck (Item 58):  Superstructure (Item 59):  Substructure (Item 60):  Culvert (Item 62):

Bridge Posting (Item 70):  Posting Status (Item 41):  Restriction Description:

Design Standard (If applicable):  [Iowa Load Rating Vehicles](#)

**Load Rating Table**

Load Type	One Lane Traffic				Multi Lane Traffic				Recommended Posting	Posting Sign
	Type 4	Tons	Type 3	Tons	Type 4	Tons	Type 3	Tons		
Straight Truck	SL4		SL5		SL4	58.4	SL5	61.1		
	SL6		SL7		SL6	56.6	SL7	60.6		
						62.4		66.4		
Truck - Semi-trailer	3S3A		3S2		3S3A	94.4	3S2	95.4		
	3S3B		4S3		3S3B	100.8	4S3	100.0		
Truck - Full-trailer	3-3		5-2		3-3	105.8	5-2	93.8		
Emergency Vehicle	EV2		EV3		EV2	59.4	EV3	59.1		Emergency Vehicle
Implement of Husbandry	IOH1				IOH1					Implement of Husbandry

Permit Vehicle Adequacy: 90K  100K  130K A  130K B  150K  All Systems Permit

Name:  Date:

License No.:  License renewal date December 31,

Comments:   
 THE ENGINEER'S NAME ON THIS REPORT IS NOT CERTIFYING THESE RATINGS, BUT IS ONLY VERIFYING THEY ARE THE CORRECT RATINGS FROM THE TR-239 REPORT PUBLISHED BY THE IOWA D.O.T. FOR THIS STANDARD BRIDGE.



# Load Rating form

### Load Rating Bridge Report Tab

FHWA # (Item 8):  Report By:  Date:

BRIDGE ID:  Year Built (Item 27):  Year Reconstructed (Item 106):

Width C-C:  Str Length:  Bridge Structure Type (Item 43):

45 No. Spans Main Unit:  Total Spans:

#### STRUCTURAL INVENTORY AND APPRAISAL:

Design Load (Item 31):  Lanes:

Operating Rating (Item 64):  Tons RF Rating Method (Item 63):

Operating Rating is controlled by:  critical location

Inventory Rating (Item 66):  Tons RF Rating Method (Item 65):

Inventory Rating is controlled by:  critical location

Comment:




☒ Calculations attached

Deck (Item 58):  Superstructure (Item 59):  Substructure (Item 60):  Culvert (Item 62):

Bridge Posting (Item 70):  Posting Status (Item 41):  Restriction Description:  (If applicable)

Design Standard (If applicable):  [Iowa Load Rating Vehicles](#)

#### Load Rating Table

Load Type	One Lane Traffic				Multi Lane Traffic				Recommended Posting	Posting Sign
	Type 4	Tons	Type 3	Tons	Type 4	Tons	Type 3	Tons		
Straight Truck	SU4		SU5		SU4		SU5		No Posting Requi	
	SU6		SU7		SU6		SU7			
Truck - Semi-trailer	3S3A		3S2		3S3A		3S2		No Posting Requi	
	3S3B		4S3		3S3B		4S3			
Truck - Full-trailer	3-3		5-2		3-3		5-2		No Posting Requi	
Emergency Vehicle	EV2		EV3		EV2		EV3			Emergency Vehicle
Implement of Husbandry	IOH1				IOH1					Implement of Husbandry

Permit Vehicle Adequacy: 90K  100K  136K A  136K B  156K  All Systems Permit

Name:  Date:

License No.:  License renewal date December 31,




Comments:

# Load Rating Form

Permit Vehicle Adequacy:	90K	<input checked="" type="checkbox"/> Yes	100K Crane Axle Group	<input checked="" type="checkbox"/> Yes	136K A	<input checked="" type="checkbox"/> Yes	136K B	<input checked="" type="checkbox"/> Yes	156K	<input checked="" type="checkbox"/> Yes	All Systems Permit
<input type="text"/>											

SNBI Routine permit coding will be required.  
All-Systems permit is Yes or No.

# Load Rating Form

Load Type	Analysis Type		Recommended Posting (B.EP.03)
	Multi-Lane Traffic		Gross Load
	Type (B.EP.01)	Tons Rating Factor (B.EP.02)	Posting Tonnage (B.EP.04)
 Straight Trucks	3		
	4		
	SU4		
	SU5		
	SU6		
	SU7		
 Truck Semi-Trailer	3S2		
	3S3A		
	3S3B		
	4S3		
 Truck Full-Trailer	3-3		
	5-2		
Emergency Vehicle	EV2		
	EV3		
Implement of Husbandry	IoH		

Drop Downs

SNBI Codes

No Posting Required  
Gross Load  
Single Axle Load  
Tandem Axle Load  
Truck Load  
NonCommercial Vehicles  
Speed Reduction  
Number of lanes restricted  
Number of vehicles restricted  
Other



# Load Rating Methods

- Assigned Load Ratings
  - Assigned load ratings are allowed when the design load is HS-20 or HL-93 or greater and the structure is in good condition. The following criteria shall also be applied.
    - Designed LFD or LRFD
    - Built according to plans
    - No changes to the loading conditions or structure condition that would require re-rating as required on the Load Rating Evaluation form in SIIMS
    - Design calculations or plans showing the design loading and AASHTO specification with the stamp of the design engineer readily available.
- By the time the structure is 30 years old, load rating calculations shall be performed.

# Load Rating Methods

- Engineering Judgement
  - When engineering judgement is needed for reinforced concrete structures with no plans or illegible plans, the rating engineer must document the reasoning behind the inventory and operating rating used.
  - Reasons for the rating should include calculations based on similar structures, load testing, or assumed reinforcing based on year of construction and normal design practices from that era.
  - The design load may or may not be known. If the design load is not known, a reasonable assumption should be made based on the year of construction and design criteria of that era.
  - Deterioration that is used as a determining factor in the rating should be documented thru photos, sketches, and written explanations.
  - Assumptions for Posting tonnages should be documented.
  - Ratings shall be based on the most current inspection documentation.
  - Engineering judgement does not apply to steel structures or CMP.



# Load Rating Methods

- Engineering Judgement
  - Only for concrete structures without plans
- Assigned Ratings
  - Only for new bridges according to I.M. 7.020
- Rating method must be coded as ASR, LFR, or LRFR when you are entering a rating based on deteriorated conditions that you can't calculate adequate section properties for.



# Load Rating Methods

- Bridges built or rehabilitated since January 1, 1994, falling into the following categories shall be rated by the Load Factor Rating (LFR) method:
  - Bridges constructed or replaced with the following materials:
    - Steel produced in 1936 (33 ksi or better) or anything after 1936.
    - Prestressed concrete.
    - Reinforced concrete.
  - Bridges that undergo major rehabilitation or repairs and not previously rated using LRFR.

# SNBI Posting Data Format

Item ID	Data Item	Value (1)	Value (2)	Value (3)	Value (4)	Value (5)	Value (6)	Value (7)
B.EP.01	<i>Legal Load Configuration</i>	3	3S2	3-3	SU4	SU5	SU6	SU7
B.EP.02	<i>Legal Load Rating Factor</i>	0.63	0.66	0.74	0.56	0.51	0.46	0.43
B.EP.03	<i>Posting Type</i>	T	T	T	T	T	T	T
B.EP.04	<i>Posting Value</i>	15	25	30	15	15	15	15

## Posting Status

Table 15. Load Posting Status Codes.

	No restriction			Posted or restricted				Closed
	New	Open	Needs Action	Weight	Other	Needs Reduction	Missing	
Permanent	N	PO	PA	PP	PR	PD	PM	C
Temporary		TO	TA	TP	TR	TD	TM	C
Supported		SO	SA	SP	SR	SD	SM	C

## Posting Status Example

Item ID	Data Item	Value (1)	Value (2)	Value (3)	Value (4)
B.PS.01	<i>Load Posting Status</i>	PD	PP	PM	PP
B.PS.02	<i>Posting Status Change Date</i>	20160214	20160415	20160723	20160905



# Inspection Report Forms

Select the forms visible on this inspection report

Refresh Page

## County Field Data

- ☒ Bridge Data
- ☒ Deck
- ☒ Superstructure
- ☒ Substructure
- ☒ Channel Protection
- ☒ Culverts
- ☒ SIA
- ☒ Underrecords
- ☒ Under Water Inspection

## Report Info

- ☒ Error Check
- ☒ NBI Calcs
- ☒ Pictures
- ☒ Rpt. Sections
- ☒ Location Map

## Crit Finding/Load Rating/Suppl.

- ☒ Load Rating
- ☒ Load Rating Evaluation
- ☒ Supplementary Inspection Information
- ☒ Critical Finding

## Channel Section

- ☒ Channel Bed Measurements

## MR&R

- ☒ Maint. Recommendation
- ☒ Funding (Local Public Agency use only)

## Forms

### County Field Data

- Inspection Info
- Bridge Data**
- Deck
- Superstructure
- Substructure
- Channel Protection
- Culverts
- SIA
- Underrecords
- Under Water Inspection

### Report Info

- Error Check
- NBI Calcs
- Pictures
- Asset Files
- Forms**
- Rpt. Sections
- Location Map

### Elements

- Element Inspection

### Crit Finding/Load Rating/Suppl.

- Load Rating
- Load Rating Evaluation
- Supplementary Inspection Information
- Critical Finding

### Channel Section

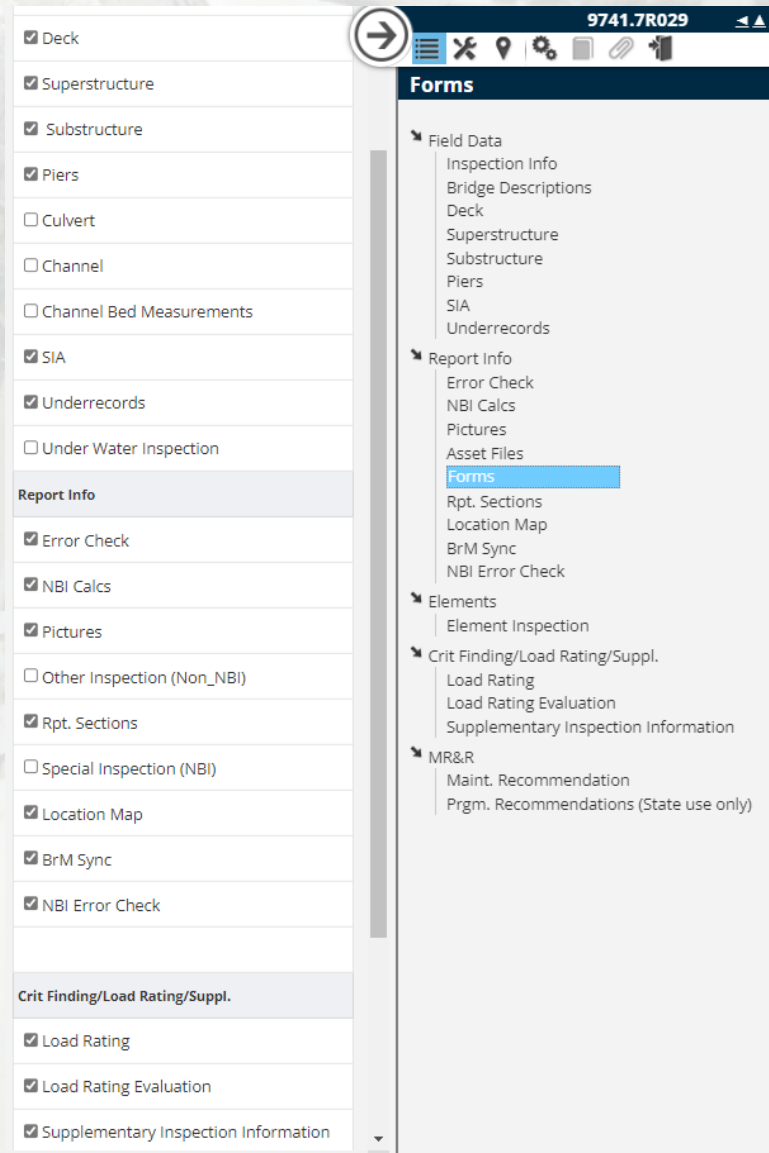
- Channel Bed Measurements

### MR&R

- Maint. Recommendation
- Funding (Local Public Agency use only)



# Inspection Report Forms

The image shows a screenshot of a mobile application interface for "Inspection Report Forms". The interface is divided into two main panels. The left panel contains a list of inspection categories with checkboxes. The right panel shows a "Forms" menu with a tree view of available forms. At the top of the right panel, a status bar displays the number "9741.7R029".

**Left Panel (Checklist):**

- ☒ Deck
- ☒ Superstructure
- ☒ Substructure
- ☒ Piers
- ☐ Culvert
- ☐ Channel
- ☐ Channel Bed Measurements
- ☒ SIA
- ☒ Underrecords
- ☐ Under Water Inspection
- Report Info**
  - ☒ Error Check
  - ☒ NBI Calcs
  - ☒ Pictures
  - ☐ Other Inspection (Non\_NBI)
  - ☒ Rpt. Sections
  - ☐ Special Inspection (NBI)
  - ☒ Location Map
  - ☒ BrM Sync
  - ☒ NBI Error Check
- Crit Finding/Load Rating/Suppl.**
  - ☒ Load Rating
  - ☒ Load Rating Evaluation
  - ☒ Supplementary Inspection Information

**Right Panel (Forms Menu):**






















9741.7R029

**Forms**

- Field Data
  - Inspection Info
  - Bridge Descriptions
  - Deck
  - Superstructure
  - Substructure
  - Piers
  - SIA
  - Underrecords
- Report Info
  - Error Check
  - NBI Calcs
  - Pictures
  - Asset Files
  - Forms**
  - Rpt. Sections
  - Location Map
  - BrM Sync
  - NBI Error Check
- Elements
  - Element Inspection
- Crit Finding/Load Rating/Suppl.
  - Load Rating
  - Load Rating Evaluation
  - Supplementary Inspection Information
- MR&R
  - Maint. Recommendation
  - Prgm. Recommendations (State use only)

# Report Sections

The report sections below are included in the selected group.

Save Order Changes		Add Sections/PDF Attachments		View PDF		
Remove Section	Order	Section Name	Print	Include in Table of Contents	Insert Cover Page Before Section	Show Page Number
	1	<input type="text" value="Cover"/>	<a href="#">View</a>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	2	<input type="text" value="Table of Contents"/>	<a href="#">View</a>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	3	<input type="text" value="SI&amp;A"/>	<a href="#">View</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	4	<input type="text" value="Bridge Data Form"/>	<a href="#">View</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	5	<input type="text" value="Deck"/>	<a href="#">View</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	6	<input type="text" value="Superstructure"/>	<a href="#">View</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	7	<input type="text" value="Substructure"/>	<a href="#">View</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	8	<input type="text" value="Culvert"/>	<a href="#">View</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	9	<input type="text" value="Channel Protection"/>	<a href="#">View</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	10	<input type="text" value="Critical Finding"/>	<a href="#">View</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	11	<input type="text" value="Load Rating - All"/>	<a href="#">View</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	12	<input type="text" value="Load Rating Evaluation"/>	<a href="#">View</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	13	<input type="text" value="Supplementary Inspection Information"/>	<a href="#">View</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	14	<input type="text" value="Supplementary Inspection Information - Updated"/>	<a href="#">View</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	15	<input type="text" value="Pictures"/>	<a href="#">View</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	16	<input type="text" value="Channel Bed Measurements"/>	<a href="#">View</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	17	<input type="text" value="Sketches"/>	<a href="#">View</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	18	<input type="text" value="Funding"/>	<a href="#">View</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	19	<input type="text" value="Location Map"/>	<a href="#">View</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	20	<input type="text" value="Elements"/>	<a href="#">View</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	21	<input type="text" value="UW Inspection"/>	<a href="#">View</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Save Order Changes		Add Sections/PDF Attachments		View PDF		Email PDF

## Forms

- County Field Data
  - Inspection Info
  - Bridge Data
  - Deck
  - Superstructure
  - Substructure
  - Channel Protection
  - Culverts
  - SIA
  - Underrecords
  - Under Water Inspection
- Report Info
  - Error Check
  - NBI Calcs
  - Pictures
  - Asset Files
  - Forms
  - Rpt. Sections
  - Location Map
- Elements
  - Element Inspection
- Crit Finding/Load Rating/Suppl.
  - Load Rating
  - Load Rating Evaluation
  - Supplementary Inspection Information
  - Critical Finding
- Channel Section
  - Channel Bed Measurements
- MR&R
  - Maint. Recommendation
  - Funding (Local Public Agency use only)

# Uploading Documents

Asset Details: 1564.6R080

Quick View

Asset Info

**Files**

ProjectWise Documents

Maintenance

Projects

## Attach Picture/File

Select

File Type **File**

File Date (i.e. Date Picture Taken):

- Channel Bed Sketch
- Sketch
- Photo
- Load Rating
- Plans
- Correspondence
- File**
- Map
- Scour
- Channel Section
- Fracture Critical Details
- As-Builts/Plans
- Pile Logs
- Agreements
- Shop Drawings
- Audio
- Video

No files to upload

Attach

## Filter By

File Date:

From:  

To:  

File Name:

File Description:

Category:

Filter

Asset and Reports

Manager Files

Photo

File

Plans

Load Rating

Report 11/28/2022

Report 08/01/2021

Report 03/04/2021

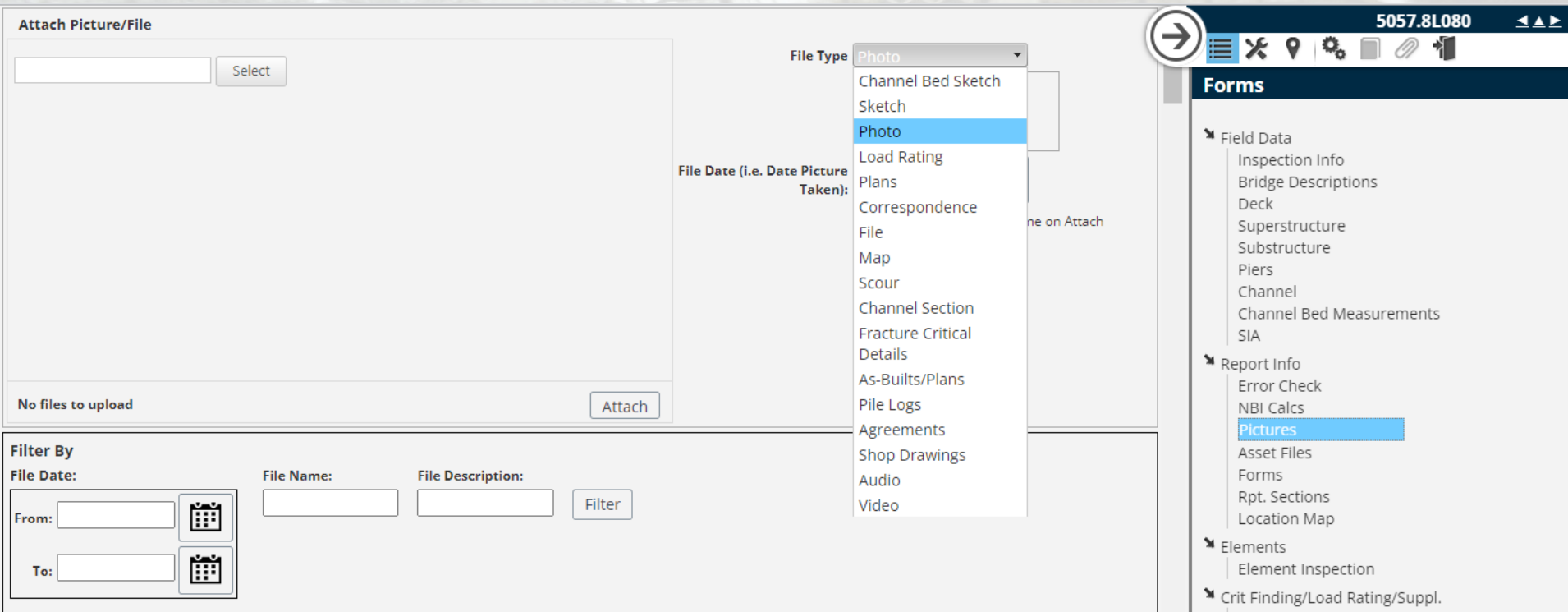
## Channel Bed Sketches (0)

No Channel Bed Sketches found

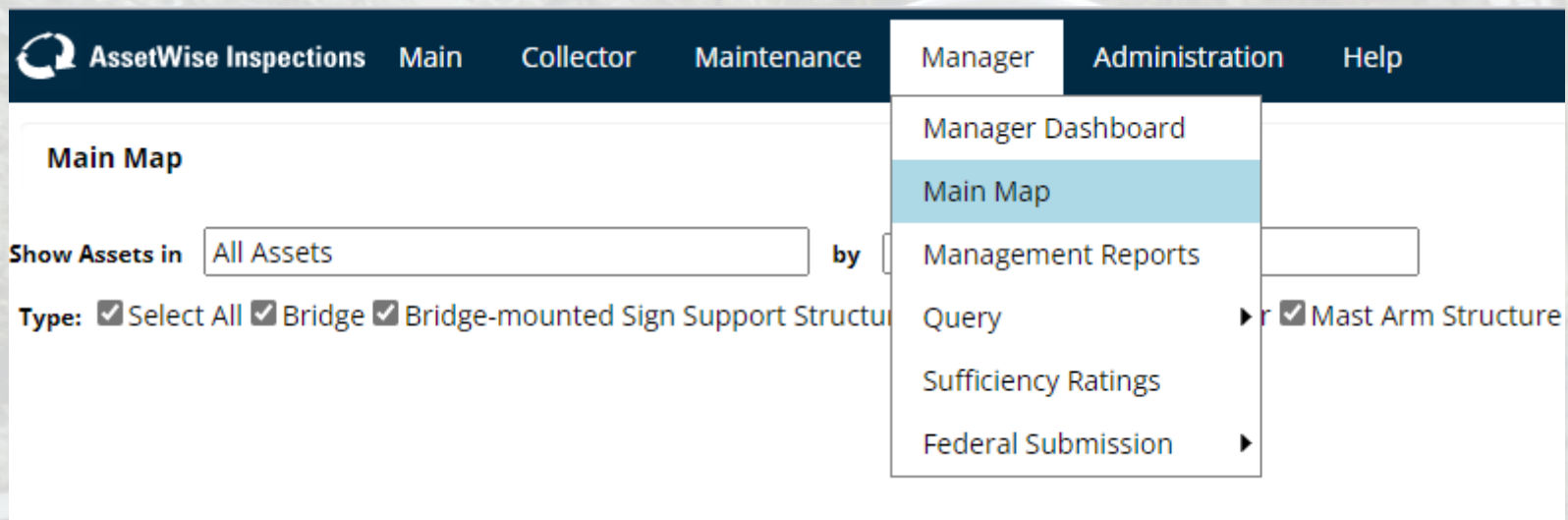
## Sketches (36)



# Uploading documents

The screenshot shows a web application interface for uploading documents. The main area is titled "Attach Picture/File" and contains a large text input field with a "Select" button. Below this field, it says "No files to upload" and has an "Attach" button. To the right of the main area, there is a "File Type" dropdown menu currently set to "Photo". A list of file types is shown, including "Channel Bed Sketch", "Sketch", "Photo" (highlighted), "Load Rating", "Plans", "Correspondence", "File", "Map", "Scour", "Channel Section", "Fracture Critical Details", "As-Built/Plans", "Pile Logs", "Agreements", "Shop Drawings", "Audio", and "Video". Below the main area, there is a "Filter By" section with "File Date:" and "File Name:" and "File Description:" fields, each with a "Filter" button. The "File Date:" section has "From:" and "To:" date pickers. On the right side of the interface, there is a "Forms" sidebar with a list of categories: "Field Data" (Inspection Info, Bridge Descriptions, Deck, Superstructure, Substructure, Piers, Channel, Channel Bed Measurements, SIA), "Report Info" (Error Check, NBI Calcs, Pictures (highlighted), Asset Files, Forms, Rpt. Sections, Location Map), "Elements" (Element Inspection), and "Crit Finding/Load Rating/Suppl.". The top right corner of the interface shows a user ID "5057.8L080" and several navigation icons.

# Mapping Features

A screenshot of the IOWA DOT AssetWise Inspections web application interface. The interface has a dark blue navigation bar at the top with the following menu items: "AssetWise Inspections", "Main", "Collector", "Maintenance", "Manager", "Administration", and "Help". The "Manager" menu is currently open, showing a dropdown list with the following options: "Manager Dashboard", "Main Map" (highlighted in light blue), "Management Reports", "Query", "Sufficiency Ratings", and "Federal Submission". Below the navigation bar, the "Main Map" section is visible. It includes a "Show Assets in" dropdown menu set to "All Assets", followed by the word "by" and another dropdown menu. Below these, there is a "Type:" label followed by a series of checkboxes: "Select All", "Bridge", "Bridge-mounted Sign Support Structure", and "Mast Arm Structure". The "Mast Arm Structure" checkbox is checked. A magnifying glass is overlaid on the right side of the interface, focusing on the "Main Map" section.

# Archived Assets

AssetWise Inspections		Main	Collector	Maintenance	Manager	Administration	Help
Report Filter: Engineering Review							
FHWA Number ▼				Inspection Date ▼			
<a href="#">606635</a>				12/01/2022			
<a href="#">018911</a>				12/05/2022			
<a href="#">018901</a>				12/05/2022			
<a href="#">018330</a>				12/05/2022			



# Archived Assets

## Archived Assets

Asset Code	Asset Name	Asset Type	Asset Status	Parent Asset	Archived Date
078150	029	Bridge	Archived	BOONE	
078200	034-443361	Bridge	Archived	BOONE	
078220	036	Bridge	Archived	BOONE	
078260	039-440465	Bridge	Archived	BOONE	
077890	042	Bridge	Archived	BOONE	4/13/2020
077900	84-28-043 318144	Bridge	Archived	BOONE	6/23/2017
077940	047	Bridge	Archived	BOONE	5/12/2022
078010	84-28-055 314953	Bridge	Archived	BOONE	4/3/2017
077100	153	Bridge	Archived	BOONE	12/29/2021
077170	82-27-142 120935	Bridge	Archived	BOONE	2/7/2012
077350	117	Bridge	Archived	BOONE	5/24/2018
077500	102	Bridge	Archived	BOONE	10/26/2021
077540	83-28-106 214936	Bridge	Archived	BOONE	3/11/2011

Show items with value that:

Contains

Boone

Filter

Clear

# Report Filters

AssetWise Inspections Main Collector Maintenance Manager Administration Help

Report Filter: In Progress State

FHWA Number	Bridge	Inspection Type	Report
<a href="#">606680</a>	<a href="#">0903.2R</a>	Routine	In Progr
<a href="#">604250</a>	<a href="#">5721.6R</a>	Routine	In Progr
<a href="#">604260</a>	<a href="#">5721.6L</a>	Routine	In Progr
<a href="#">050610</a>	<a href="#">9030.6S</a>	In-Depth	In Progr

- Report Filter
- Inspection Schedules
- Report Summary View
- Collector Dashboard
- Merge Reports
- Upcoming Inspections
- Archived Assets
- Bulk Report Workflow Change
- Manage Asset Schedules












# Report Filters


Report Filter: In Progress State

Load Filter

Manage

FHWA Number	Bridge ID	Inspection Date	Inspection Type	Report Status	Created
<a href="#">606680</a>	<a href="#">0903.2R218</a>	02/23/2023	Routine	In Progress	02/27/   
<a href="#">604250</a>	<a href="#">5721.6R380</a>	02/27/2023	Routine	In Progress	02/27/   
<a href="#">604260</a>	<a href="#">5721.6L380</a>	02/27/2023	Routine	In Progress	02/27/   

# Report Filters


AssetWise Inspections
Main
Collector
Maintenance
Manager
Admin

Report Filter: In Progress State

FHWA Number	Bridge ID	Inspection Date	Inspection Type
<a href="#">606680</a>	<a href="#">0903.2R218</a>	02/23/2023	Routine
<a href="#">604250</a>	<a href="#">5721.6R380</a>	02/27/2023	Routine
<a href="#">604260</a>	<a href="#">5721.6L380</a>	02/27/2023	Routine
<a href="#">050610</a>	<a href="#">9030.6S063</a>	02/27/2023	In-Depth
<a href="#">605155</a>	<a href="#">7092.3S061</a>	02/27/2023	Routine
<a href="#">038151</a>	<a href="#">7002.4S038</a>	02/27/2023	Routine
<a href="#">038041</a>	<a href="#">7077.2S022</a>	02/27/2023	Routine
<a href="#">038051</a>	<a href="#">7077.8S022</a>	02/27/2023	Routine
<a href="#">038030</a>	<a href="#">7076.6S022</a>	02/27/2023	Routine
<a href="#">037991</a>	<a href="#">7061.3S022</a>	02/27/2023	Routine

PUBLIC FILTERS

Awaiting Approval - All

Awaiting Approval - Mine

Engineering Review

In Progress

In Progress State

Load Rating workflow

Office Review

Scour Review

MY FILTERS

Assigned to

Awaiting Approval Assigned

Bridges in Development

County In Progress

Inspection status

Load Rating Report Review

LPA City In Progress

Manage

...

...

...

...

...

...

...

...

...

...

Iowa Department of Transportation

© Copyright 2023 Bentley Systems, Inc.










State Engineer: Michael Bauer, Scott - Logout

# Report Filters

Report Filter: In Progress State


Load Filter

Manage

FHWA Number	Bridge ID	Inspection Date	Inspection Type	Report Status	Creat
<a href="#">606680</a>	<a href="#">0903.2R218</a>	02/23/2023	Routine	In Progress	02/27/   
<a href="#">604250</a>	<a href="#">5721.6R380</a>	02/27/2023	Routine	In Progress	02/27/   
<a href="#">604260</a>	<a href="#">5721.6L380</a>	02/27/2023	Routine	In Progress	02/27/   



# Report Filters

 AssetWise Inspections   Main   Collector   Maintenance   Manager   Administration   Help

Report Filter: In Progress State

Load Filter

Manage

FHWA Number	Bridge ID	Inspection Date	Inspection Type	Report Status	Created
<a href="#">604250</a>	<a href="#">5721.6R380</a>	02/27/2023	Routine	In Progress	02/27/2023
<a href="#">604260</a>	<a href="#">5721.6L380</a>	02/27/2023	Routine	In Progress	02/27/2023
<a href="#">050610</a>	<a href="#">9030.6S063</a>	02/27/2023	In-Depth	In Progress	02/27/2023
<a href="#">605155</a>	<a href="#">7092.3S061</a>	02/27/2023	Routine	In Progress	02/27/2023

Create New Filter

Edit

Delete

Save As Private Filter

Export Results To Excel



# Monthly Notifications

92 CRITICAL FEATURE INSPECTION					
		Y/N	FREQ	93 CFI Date	Comments
Fract	A Fracture Critical Detail	<input checked="" type="checkbox"/>	24	04/29/2022	
Under	B Underwater Inspection	<input checked="" type="checkbox"/>	72	04/06/2020	
Speci	C Other Special Inspection	<input checked="" type="checkbox"/>	24	02/27/2023	Intermediate Fai

- Posting notifications will be sent to the DOT on a monthly basis instead of March 1<sup>st</sup> and September 1<sup>st</sup>. Owners and Program Managers will receive a note from the DOT instead of SIIMS.
- Monthly late inspection notices will continue to be sent to the Program Managers directly from SIIMS.



# New Report Types

LPA Bridge

LPA Bridge Data Update

LPA Critical Finding

LPA Culvert

LPA Culvert Data Update

LPA Fracture Critical

LPA Load Rating Report

LPA Underwater

State Bridge

State Bridge Data Update

State Critical Finding

State Culvert

State Culvert Data Update

State Fracture Critical

State Load Rating Report

State Underwater



# Data Updates

**Asset Details: 0166.1S025**

 Sent Emails

 Show More Details

 Edit Asset Values

 Show on Map

 Create Report

**Parent Asset:** District 4

**Bridge ID:** 0166.1S025

**FHWA Number:** 012971

**Asset Type:** Bridge

**BRKEY:** 012971

---

**NBI 006 Features Crossed:** TURKEY CREEK

**NBI 007 Facility Carried:** IA 25

**NBI 009 Location:** 4.6 MI. S OF JCT. I-80

---

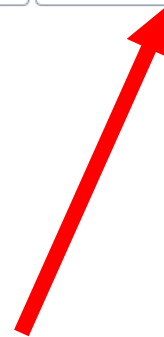
**NBI 112 NBIS:** Y - Yes

**NBI 022 owner:** 01 - State Highway Agency

**Original Design Number: Number: 1:** 117

**NBI 027 Year Built:** 2018

**NBI 043 Main Structure Type:** 201



# Updating Bridge Inventory Data

- Data Update Report
  - When data needs to be updated or corrected without doing a Routine inspection, use the Data Update report to change data.
  - This report will provide a system to track changes efficiently.
  - This report will require a comment on what was changed.
  - It also provides an easy way for you or anyone looking at the data to know why and when values changed.
  - The “Edit Asset Values” feature will be changed to “View Asset Values”

# New Report Types

## Create Inspection Report Based On:

- ☐ Blank report  
☒ Asset Values

### Options:

- ☐ Copy report files (photos, etc.)  
☒ Copy previous report section attachments (PDF)

## Report Type:

LPA Bridge ▼

## Inspection Type:

- |   |                                      |
|---|--------------------------------------|
| <input checked="" type="checkbox"/> Routine | <input type="checkbox"/> Other       |
| <input type="checkbox"/> In-Depth           | <input type="checkbox"/> Special     |
| <input type="checkbox"/> Fracture Critical  | <input type="checkbox"/> Load Rating |
| <input type="checkbox"/> Underwater         | <input type="checkbox"/> Initial     |

Create

Cancel



# Inspection Report Type

NBI 90 Date	Report Type	Inspection Type	NBI 007 Facility Carried
8/16/2021	IOWA Full State	Fracture Critical a...	IA 9
8/19/2019	IOWA Full State	Underwater	IA 9
8/19/2019	IOWA Full State	Fracture Critical a...	IA 9
8/7/2017	IOWA Full State	Special	IA 9
8/7/2017	IOWA Full State	In-Depth and Fra...	IA 9
8/17/2015	IOWA Full State	In-Depth and Fracture Critical	IA 9
8/1/2013	IOWA Full State	Underwater	IA 9
8/1/2013	IOWA Full State	Special and Other	IA 9
8/1/2013	IOWA Full State	In-Depth and Fra...	IA 9

# New Report Types

## Create Inspection Report Based On:

- ☐ Blank report  
☒ Asset Values

### Options:

- ☐ Copy report files (photos, etc.)  
☐ Copy previous report section attachments (PDF)

## Report Type:

LPA Bridge



## Inspection Type:

- |   |                                      |
|---|--------------------------------------|
| <input checked="" type="checkbox"/> Routine           | <input type="checkbox"/> Other       |
| <input type="checkbox"/> In-Depth                     | <input type="checkbox"/> Special     |
| <input checked="" type="checkbox"/> Fracture Critical | <input type="checkbox"/> Load Rating |
| <input checked="" type="checkbox"/> Underwater        | <input type="checkbox"/> Initial     |

Create

Cancel

# Inspection Report Type

Quick View	<b>Asset Info</b>	Files	ProjectWise Documents	Maintenance	Projects
------------	-------------------	-------	-----------------------	-------------	----------

## ▼ Completed Reports

Last Revision	FHWA Number	Sub-Assets	Asset Type	INSPKEY	NBI 90 Date	Report Type	Inspection Type	NBI 007 Facility Carried
3/9/2023	012971	none	Bridge	ZAVD	5/9/2022	IOWA Full State	Routine	IA 25
5/21/2020	012971	none	Bridge	FWFB	5/12/2020	IOWA Full State	In-Depth	IA 25
2/4/2019	012971	none	Bridge	QPOO	5/1/2018	IOWA Full State	Load Rating	IA 25



# Data Update

Quick View	<b>Asset Info</b>	Files	ProjectWise Documents	Maintenance	Projects
------------	-------------------	-------	-----------------------	-------------	----------

## ▼ Completed Reports

Last Revision	FHWA Number	Sub-Assets	Asset Type	INSPKEY	NBI 90 Date	Report Type	Inspection Type	NBI 007 Facility Carried
3/9/2023	012971	none	Bridge	ZAVD	5/9/2022	IOWA Full State	Routine	IA 25
5/21/2020	012971	none	Bridge	FWFB	5/12/2020	IOWA Full State	<b>Data Update</b>	IA 25
2/4/2019	012971	none	Bridge	QPOO	5/1/2018	IOWA Full State	Load Rating	IA 25

# NBIS Changes

1. 12 month interval - Policy required by May 2024. Intent is to use the criteria for Method 1 in the NBIS.
2. 48 month interval – Policy can be implemented any time. Equivalent criteria from 1995 NBI data can be used until SNBI is implemented. Existing approved criteria will be rescinded in April 2024. Intent is to use the criteria for Method 1 in the NBIS.
3. Underwater and NSTM policies for reduced intervals must be implemented by June 6, 2024.
4. Team Leader qualifications – two-week NHI course or 1 week course for engineers required for all grandfathered inspectors. P.E.'s are required to have 6 months of bridge inspection experience. Qualifications must be met by June 6, 2024.
5. Underwater diver training – divers who have not taken the two week course must take the new diver inspection training course. This course does not qualify them as a team leader. A team leader is still required to be present at all diving inspections.



# NBIS Changes

6. Posting procedures – within 30 days after rating calculations identify a need for posting. SNBI has a posting date field.
7. Critical findings criteria – Develop procedures and time frames to address critical findings by June 6, 2024.
8. Routine permit review – All LPA bridges need to be analyzed for annual permit vehicles by June 6, 2024. Standards from 2006 to present have been rated for Routine permit loads. Culverts have not been rated for annual permit vehicles due to the assumption that they are not as susceptible to overload by permit trucks. H-15, H-20, and HS-20 or HL-93 loading is more severe than routine permit loads on culverts.
9. Initial inspections- needs to be done within 3 months of being open to traffic. Will enter a 3 month inspection interval when the bridge is initially entered into the inventory when its open to traffic.



# NBIS Changes

10. Initial underwater inspection – required within 12 months after open to traffic. Will enter a 12 month inspection interval when the bridge is initially entered into the inventory when its open to traffic. If the bridge has piers in the water according to the design plans, we will assume an underwater inspection is needed. After the initial inspection, the need for future underwater inspections will be determined.
11. Initial NSTM inspections- required within 12 months after open to traffic. Will enter a 12 month inspection interval when the bridge is initially entered into the inventory when its open to traffic.
12. Team leaders on NSTM inspections – Must complete FHWA approved NSTM training by June 6, 2024. Completion of a previously approved NSTM course satisfies this requirement.

# FHWA Metric Review

- Annual review of state's inspection processes, procedures, and data.
- Any compliance issue requires a plan of corrective action or improvement plan.
- 23 metrics are reviewed at varying levels each year.



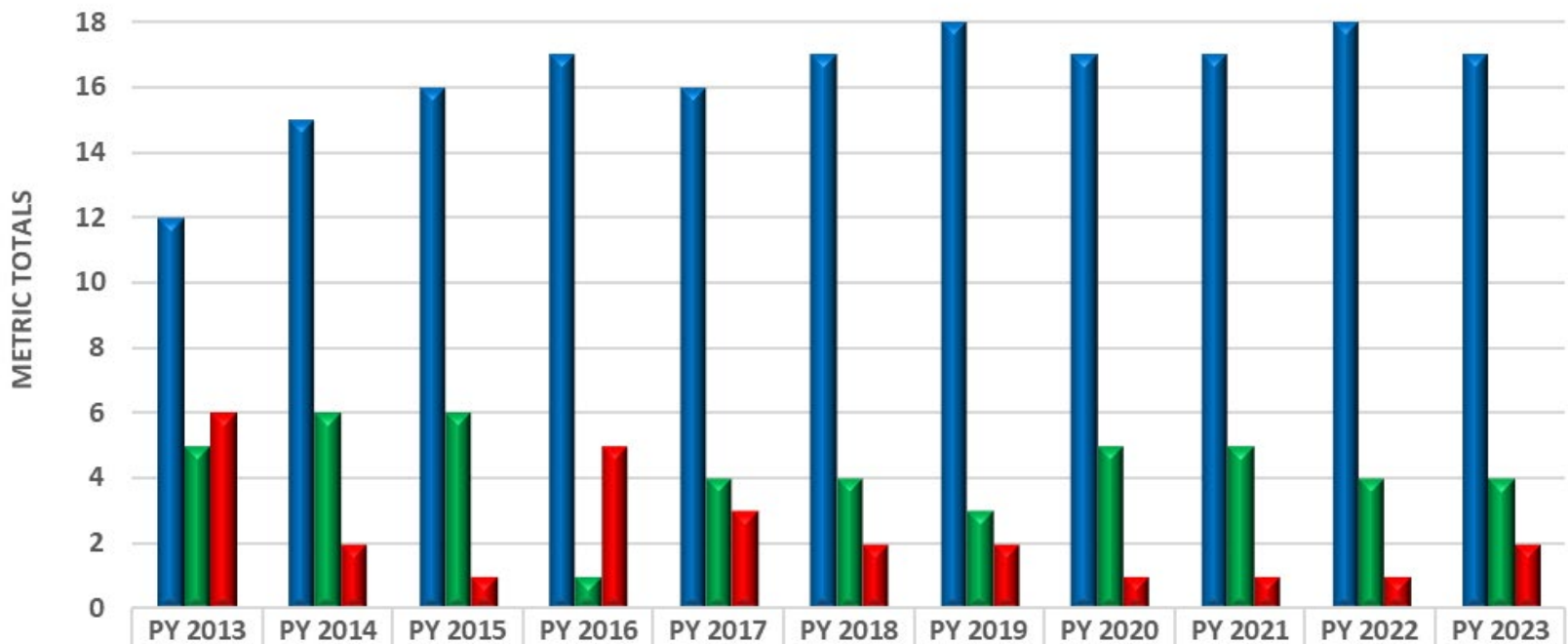
# FHWA Metric Review

Metric #	Metric Title	Compliance Determination 2021	Compliance Determination 2022	Compliance Determination 2023
1	Bridge Inspection Organization	Compliant	Compliant	Compliant
2	Qualifications of personnel Program Manager	Compliant	Compliant	Compliant
3	Qualifications of personnel Team Leader(s)	Compliant	Compliant	Compliant
4	Qualifications of personnel Load Rating Engineer	Compliant	Compliant	Compliant
5	Qualifications of personnel UW Bridge Inspection Diver	Compliant	Compliant	Compliant
6	Routine inspection frequency Lower risk bridges	Substantially Compliant	Substantially Compliant	Substantially Compliant
7	Routine inspection frequency Higher risk bridges	Substantially Compliant	Substantially Compliant	Substantially Compliant
8	Underwater inspection frequency Lower risk bridges	Compliant	Compliant	Compliant
9	Underwater inspection frequency Higher risk bridges	Compliant	Compliant	Compliant
10	Inspection frequency Fracture Critical Member	Substantially Compliant	Substantially Compliant	Substantially Compliant
11	Inspection frequency Damage, Indepth, or Special	Compliant	Compliant	Compliant
12	Inspection procedures Quality Inspections	Substantially Compliant	Compliant	Compliant
13	Inspection procedures Load Rating	Conditional Compliance	Conditional Compliance	Conditional Compliance
14	Inspection procedures Load Posting	Compliant	Compliant	Compliant
15	Inspection procedures Bridge Files	Compliant	Compliant	Compliant
16	Inspection procedures Fracture Critical Members	Compliant	Compliant	Conditional Compliance
17	Inspection procedures Underwater	Compliant	Compliant	Compliant
18	Inspection procedures Scour Critical Bridges	Compliant	Compliant	Compliant
19	Inspection procedures Complex Bridges	Compliant	Compliant	Compliant
20	Inspection procedures QC/QA	Compliant	Compliant	Compliant
21	Inspection procedures Critical Findings	Substantially Compliant	Compliant	Compliant
22	Inventory Prepare and Maintain	Compliant	Compliant	Compliant
23	Inventory Update Data	Compliant	Substantially Compliant	Substantially Compliant



# NBIS Metrics

## NBIS 23 Metric Compliance



Compliant	12	15	16	17	16	17	18	17	17	18	17
Substantially Compliant	5	6	6	1	4	4	3	5	5	4	4
Conditionally Compliant	6	2	1	5	3	2	2	1	1	1	2

# Plan for Corrective Action

## Metric #13: Inspection Procedures - Load Rating SHV

### Goal

Goal is to rate all the required bridges for SHVs, update load rating documentation, and update load rating methods.

Work to prioritize based on high risk and low risk bridges. Bridges to be rated in AASHTO BrR as high priority vs low priority.

### Implementation

Action Item 1: 134 culverts owned by Local Public Agencies do not have their ratings completed for Specialized Hauling Vehicles according to the Federal Highway Administration Memorandum titled "Load Rating of Specialized Hauling Vehicles" dated November 15, 2013. Load ratings shall be completed. Notices will be sent out in January of 2022 to complete the ratings.

Estimated Start Date: January 2022

Estimated Completion Date: July 2022

Current Progress: **Complete.** All local agency bridges requiring SHV ratings have been completed.

# Corrective Actions Needed

- Documentation of the use of the DOT parametric study for rating Special Hauling Vehicles (SHV)
- Documentation stating the criteria used for an Assigned Rating.
- Documentation on why Engineering Judgement was used.
- Engineering Judgement improperly used for non-qualifying bridges
- Updating load ratings to the proper method (LFR or LRFR) as required by federal guidance memos.



# SNBI Implementation

Target Date	Action
May 2022	NBIS and SNBI published
July 2022	FHWA publishes Data Crosswalk
October 2022	FHWA publishes Data Submittal Schema and Data Submittal Validation Logic (Initial Version)
April 2023	Transition Tool is made available online
October 2024	FHWA makes NBI NextGen available online for data validation only
March 15, 2025	Last NBI data submittal in accordance with 1995 Coding Guide
January 1, 2026	<b>Last date to begin</b> verification of transitioned data and collection of SNBI-based data for inspected bridges – Agencies may elect to begin SNBI-based data collection and verification earlier to meet the March 15, 2028, deadline for submittal of a complete SNBI-based NBI dataset
January 1, 2026	FHWA makes NBI NextGen available for Data Submittals
March 15, 2026	First SNBI-based NBI data submittal – Transitioned/Hybrid Dataset – At a minimum, all bridges submitted with transitioned data except for specified fields required to manage FHWA programs, which shall be collected or verified in accordance with the SNBI – Continue verification of transitioned data and collection of SNBI-based data
June 2026	Transition Tool sunsets
March 15, 2027	Second SNBI-based NBI data submittal – Transitioned/Hybrid Dataset – Continue verification of transitioned data and collection of SNBI-based data
March 15, 2028	Third SNBI-based NBI data submittal – 100% populated and verified – No temporary codes permitted – First complete SNBI-based dataset with collected and verified SNBI-based data for all bridges

# SNBI Implementation

- 2023 development of the inspection forms to include new SNBI data fields
- After March 2024 NBI submittal, begin inspections using SNBI data
- New SI&A form
- Potentially additional forms needed for data that has a many-to-one format.
- Equivalent NBI data will transfer to the SNBI format.
- Many new data fields will need to be entered during the first inspection under SNBI format.
- Many of the new data fields could be entered prior to the first SNBI inspection.



The background of the slide is a faded photograph of a bridge with a lattice steel truss structure. A magnifying glass is held in the foreground, focusing on the bridge's structure. The word "Questions?" is centered over the magnifying glass.

Questions?