



# BrM 5.3 New Features

---

Condition Grid

September 12-13, 2017

Alexandria, Virginia

- Harmless Error
- Condition Grid 5.2.3
- Speed
- Scrolling
- Condition Grid 5.3
- Video Demo
- The Features
  - Layout
  - Elements
  - Notes
  - Key Nav
- Summary

## Before we begin ...

### Optimization Progress

Optimization Failed!

### Progress Messages

```
Budget is zero for segment 'Gilliam, 1 On the NHS' in year 2022.  
Budget is zero for segment 'Gilliam, 1 On the NHS' in year 2023.  
Budget is zero for segment 'Gilliam, 1 On the NHS' in year 2024.  
Budget is zero for segment 'Gilliam, 1 On the NHS' in year 2025.  
Budget is zero for segment 'Gilliam, 1 On the NHS' in year 2026.
```

Persisting Segment 1's Results

Processing Segments Completed

Finalizing Data

Program Optimization Complete

```
Optimization Failed: One or more errors occurred. at System.Threading.Tasks.Task.ThrowIfExceptional(Boolean includeTaskCanceledExceptions) at System.Threading.Tasks.Task.Wait(Int32 millisecondsTimeout, CancellationToken cancellationToken) at BRIDGEWare.Pontis.BrMTASKService.Tasks.OptimizationTask.Run() in E:\Agents\PRG01\work\65  
\s\BrMTASKService\Tasks\OptimizationTask.cs:line 84
```

Please note this  
common error.

Everything is fine here.

- Harmless Error
- Condition Grid 5.2.3
- Speed
- Scrolling
- Condition Grid 5.3
- Video Demo
- The Features
  - Layout
  - Elements
  - Notes
  - Key Nav
- Summary

# Condition Grid in 5.2.3

Inspection > Condition

Superstructure (059): 7 Good    Culvert (062): N N/A (NBI)  
 Substructure (060): 7 Good    Waterway (071): 7 Above Minimum

Calculate SR    Calculate NBI

Element Conditions

- All Structures -     Quantity  Percent

AASHTO Bridge Elements    Add New Element

Elem	Str. Unit	Env	Description	Quantity	Units	Qty. 1	Qty. 2	Qty. 3	Qty. 4
12	1	Ben. (1)	Re Concrete Deck	2988	sq.ft	2988.000	0.000	0.000	0.000
16	1	Ben. (1)	Re Conc Top Flange	6710	sq.ft	6710.000	0.000	0.000	0.000
109	1	Ben. (1)	Pre Opn Conc Girder/Beam	1006	ft	853.000	41.000	112.000	0.000
110	1	Ben. (1)	Re Conc Opn Girder/Beam	561	ft	561.000	0.000	0.000	0.000
215	1	Ben. (1)	Re Conc Abutment	235	ft	235.000	0.000	0.000	0.000
225	1	Ben. (1)	Steel Pile	32	(EA)	32.000	0.000	0.000	0.000
234	1	Ben. (1)	Re Conc Pier Cap	181	ft	181.000	0.000	0.000	0.000
310	1	Ben. (1)	Elastomeric Bearing	36	each	36.000	0.000	0.000	0.000
331	1	Ben. (1)	Re Conc Bridge Railing	197	ft	197.000	0.000	0.000	0.000

Inspection Notes

CHANNEL MINOR BANK EROSION DECK SEE NARRATIVE SUPER SEE NARRATIVE SUB SEE NARRATIVE

- Harmless Error
- Condition Grid 5.2.3
- Speed
- Scrolling
- Condition Grid 5.3
- Video Demo
- The Features
  - Layout
  - Elements
  - Notes
  - Key Nav
- Summary

# We want less of this!

Bridge: 009653 Facility Carried (007): SPARKMAN DR Inspection: 2017-08-28 (YVNZ) Type: Regular NBI Metric English

Inspection > Condition

Superstructure (059): 7 Good Culvert (062): N N/A (NBI) Calculate SR  
 Substructure (060): 7 Good Waterway (071): 7 Above Minimum Calculate NBI

Element Conditions

- All Structures - Quantity Percent

AASHTO Bridge Elements Add New Element

Elem	Str. Unit	Env	Description	Quantity	Units	Qty. 1	Qty. 2	Qty. 3	Qty. 4
12	1	Ben. (1)	Re Concrete Deck	2988	sq.ft	2988.000	0.000	0.000	0.000
510	1	Shield	Wearing Surfaces	2988	sq.ft	2978.000	10.000	0.000	0.000
16	1	Ben. (1)	Re Conc Top Flange	6710	sq.ft	6710.000	0.000	0.000	0.000
109	1	Ben. (1)	Pre Opn Conc Girder/Beam	1006	ft	853.000	41.000	112.000	0.000
110	1	Ben. (1)	Re Conc Opn Girder/Beam	561	ft	561.000	0.000	0.000	0.000
215	1	Ben. (1)	Re Conc Abutment	235	ft	235.000	0.000	0.000	0.000
225	1	Ben. (1)	Steel Pile	32	(EA)	32.000	0.000	0.000	0.000
234	1	Ben. (1)	Re Conc Pier Cap	181	ft	181.000	0.000	0.000	0.000
310	1	Ben. (1)	Elastomeric Bearing	36	each	36.000	0.000	0.000	0.000
331	1	Ben. (1)	Re Conc Bridge Railing	197	ft	197.000	0.000	0.000	0.000

- Harmless Error
- Condition Grid 5.2.3
- Speed
- Scrolling
- Condition Grid 5.3
- Video Demo
- The Features
  - Layout
  - Elements
  - Notes
  - Key Nav
- Summary

## And less scrolling.

Elem	Str. Unit	Env	Description	Quantity	Units	Qty. 1	Qty. 2	Qty. 3	Qty. 4
12	1	Ben. (1)	Re Concrete Deck	2988	sq.ft	2988.000	0.000	0.000	0.000
510	1		Wearing Surfaces	2988	sq.ft	2978.000	10.000	0.000	0.000
16	1	Ben. (1)	Re Conc Top Flange	6710	sq.ft	6710.000	0.000	0.000	0.000
109	1	Ben. (1)	Pre Opn Conc Girder/Beam	1006	ft	853.000	41.000	112.000	0.000
110	1	Ben. (1)	Re Conc Opn Girder/Beam	561	ft	561.000	0.000	0.000	0.000
215	1	Ben. (1)	Re Conc Abutment	235	ft	235.000	0.000	0.000	0.000
225	1	Ben. (1)	Steel Pile	32	(EA)	32.000	0.000	0.000	0.000
234	1	Ben. (1)	Re Conc Pier Cap	181	ft	181.000	0.000	0.000	0.000
310	1	Ben. (1)	Elastomeric Bearing	36	each	36.000	0.000	0.000	0.000
331	1	Ben. (1)	Re Conc Bridge Railing	197	ft	197.000	0.000	0.000	0.000

Str. Unit: 1  
 Elem: 12 Re Concrete Deck  
 Env: Ben. (1)

Notes:

States:

Inspection Comparison

### Inspection Notes

CHANNEL MINOR BANK EROSION DECK SEE NARRATIVE SUPER SEE NARRATIVE SUB SEE NARRATIVE

- Harmless Error
- Condition Grid 5.2.3
- Speed
- Scrolling
- Condition Grid 5.3
- Video Demo
- The Features
  - Layout
  - Elements
  - Notes
  - Key Nav
- Summary

# Introducing the 5.3 condition grid.

Inspection > Condition

Superstructure (059): 7 Good    Culvert (062): N N/A (NBI)    Calculate SR    Calculate NBI  
 Substructure (060): 7 Good    Waterway (071): 7 Above Minimum

**Element Conditions**

Hide Elem Inspection Details    Arrow Key Grid Navigation Help

Element: Elem # or Elem Desc    Struct. Unit.: All    Env.: All    Clear Filters     Quantity     Percent    Add Element

▶ Elem. ▲	Str. Unit. ▲	Env.	Element Description	Tot. Qty.	Units	Qty1	Qty2	Qty3	Qty4			
▶ 12	1	Ben. (1)	Re Concrete Deck	2988	sq.ft	2,988.000	0	0	0			
▶ 16	1	Ben. (1)	Re Conc Top Flange	6710	sq.ft	6,710.000	0	0	0			
▶ 109	1	Ben. (1)	Pre Opn Conc Girder/Beam	1006	ft	853.000	41	112	0			
110	1	Ben. (1)	Re Conc Opn Girder/Beam	561	ft	561.000	0	0	0			
215	1	Ben. (1)	Re Conc Abutment	235	ft	235.000	0	0	0			
225	1	Ben. (1)	Steel Pile	32	(EA)	32.000	0	0	0			
234	1	Ben. (1)	Re Conc Pier Cap	181	ft	181.000	0	0	0			
310	1	Ben. (1)	Elastomeric Bearing	36	each	36.000	0	0	0			
331	1	Ben. (1)	Re Conc Bridge Railing	197	ft	197.000	0	0	0			

**Inspection Notes**

CHANNEL MINOR BANK EROSION DECK SEE NARRATIVE SUPER SEE NARRATIVE SUB SEE NARRATIVE

# So how fast is fast?

- Harmless Error
- Condition Grid 5.2.3
- Speed
- Scrolling
- Condition Grid 5.3
- Video Demo
- The Features
  - Layout
  - Elements
  - Notes
  - Key Nav
- Summary

Inspection > Condition

**Condition Ratings**

Deck (058): 5 Fair    Channel (061): 6 Bank Slumping    Validate    NBI Converter Profile  
 Superstructure (059): 7 Good    Culvert (062): N N/A (NBI)    Calculate SR  
 Substructure (060): 7 Good    Waterway (071): 7 Above Minimum

**Element Conditions**

Hide Elem Inspection Details

Element: Elem # or Elem Desc Struct. Unit.: All Env.: All Clear Filters    Quantity Percent

Elem.	Str. Unit.	Env.	Element Description	Tot. Qty.	Units	Qty1	Qty2
12	1	Ben. (1)	Re Concrete Deck	2988	sq.ft	2,988.000	0
Element Manual: [icon] Notes: [edit]							
16	1	Ben. (1)	Re Conc Top Flange	6710	sq.ft	6,710.000	0
109	1	Ben. (1)	Pre Opn Conc Girder/Beam	1006	ft	853.000	41
110	1	Ben. (1)	Re Conc Opn Girder/Beam	561	ft	561.000	0
215	1	Ben. (1)	Re Conc Abutment	235	ft	235.000	0
225	1	Ben. (1)	Steel Pile	32	(EA)	32.000	0
234	1	Ben. (1)	Re Conc Pier Cap	181	ft	181.000	0
310	1	Ben. (1)	Elastomeric Bearing	36	each	36.000	0
331	1	Ben. (1)	Re Conc Bridge Railing	197	ft	197.000	0

**Inspection Notes**

Status: New    Cancel    Save    Save & Close    Delete Inspection

BrM 5.3

Inspection > Condition

**Condition Ratings**

Deck (058): 5 Fair    Channel (061): 6 Bank Slumping    Validate    NBI Converter Profile  
 Superstructure (059): 7 Good    Culvert (062): N N/A (NBI)    Calculate SR  
 Substructure (060): 7 Good    Waterway (071): 7 Above Minimum

**Element Conditions**

- All Structures -    Quantity Percent

AASHTO Bridge Elements

Elem	Str. Unit	Env	Description	Quantity	Units	Qty. 1	Qty. 2	Qty. 3
12	1	Ben. (1)	Re Concrete Deck	2988	sq.ft	2988.000	0.000	0.000
16	1	Ben. (1)	Re Conc Top Flange	6710	sq.ft	6710.000	0.000	0.000
109	1	Ben. (1)	Pre Opn Conc Girder/Beam	1006	ft	853.000	41.000	112.000
110	1	Ben. (1)	Re Conc Opn Girder/Beam	561	ft	561.000	0.000	0.000
215	1	Ben. (1)	Re Conc Abutment	235	ft	235.000	0.000	0.000
225	1	Ben. (1)	Steel Pile	32	(EA)	32.000	0.000	0.000
234	1	Ben. (1)	Re Conc Pier Cap	181	ft	181.000	0.000	0.000
310	1	Ben. (1)	Elastomeric Bearing	36	each	36.000	0.000	0.000
331	1	Ben. (1)	Re Conc Bridge Railing	197	ft	197.000	0.000	0.000

**Inspection Notes**

Status: New    Cancel    Save    Save & Close    Delete Inspection

BrM 5.2.3

- Harmless Error
- Condition Grid 5.2.3
- Speed
- Scrolling
- Condition Grid 5.3
- Video Demo
- The Features
  - Layout
  - Elements
  - Notes
  - Key Nav
- Summary

# The Features.

Inspection > Condition

Superstructure (059): 7 Good    Culvert (062): N N/A (NBI)  
 Substructure (060): 7 Good    Waterway (071): 7 Above Minimum

Calculate SR    Calculate NBI

**Element Conditions**

Hide Elem Inspection Details    Arrow Key Grid Navigation Help

Element: Elem # or Elem Desc    Struct. Unit.: All    Env.: All    Clear Filters     Quantity  Percent    Add Element

Elem.	Str. Unit.	Env.	Element Description	Tot. Qty.	Units	Qty1	Qty2	Qty3	Qty4			
12	1	Ben. (1)	Re Concrete Deck	2988	sq.ft	2,988.000	0	0	0			
16	1	Ben. (1)	Re Conc Top Flange	6710	sq.ft	6,710.000	0	0	0			
109	1	Ben. (1)	Pre Opn Conc Girder/Beam	1006	ft	853.000	41	112	0			
110	1	Ben. (1)	Re Conc Opn Girder/Beam	561	ft	561.000	0	0	0			
215	1	Ben. (1)	Re Conc Abutment	235	ft	235.000	0	0	0			
225	1	Ben. (1)	Steel Pile	32	(Pile)	32.000	0	0	0			
234	1	Ben. (1)	Re Conc Pier Cap	181	ft	181.000	0	0	0			
310	1	Ben. (1)	Elastomeric Bearing	36	each	36.000	0	0	0			
331	1			197	ft	197.000	0	0	0			

CS1 doesn't imply edit

Inspection Notes

CHANNEL MINOR BANK EROSION DECK SEE NARRATIVE SUPER SEE NARRATIVE SUB SEE NARRATIVE



- Harmless Error
- Condition Grid 5.2.3
- Speed
- Scrolling
- Condition Grid 5.3
- Video Demo
- The Features
  - Layout
  - Elements
  - Notes
  - Key Nav
- Summary

# The Features.

Inspection > Condition

Element Conditions Hide Elem Inspection Details Arrow Key Grid Navigation Help

Element:  Struct. Unit.:  Quantity  Percent  Add Element

Elem.	Str. Unit.	Env.		Units	Qty1	Qty2	Qty3	Qty4			
12	1	Ben. (1)		sq.ft	2,988.000	0	0	0			
510	1		Wearing Surfaces	2988 sq.ft	2,978.000	10	0	0			
Element Manual:			Notes: <a href="#">Small potholes near middle joint on the Northeast side...[edit]</a>								
16	1	Ben. (1)	Re Conc Top Flange	6710 sq.ft	6,710.000	0	0	0			
510	1		Wearing Surfaces	6710 sq.ft	6,700.000	10	0	0			
109	1	Ben. (1)	Pre Opn Conc Girder/Beam	1006 ft	853.000	41	112	0			
1110	1		Cracking (PSC)	140 ft	0.000	40	100	0			
1120	1		Efflorescence/Rust Staining	13 ft	0.000	1	12	0			
110	1	Ben. (1)	Re Conc Opn Girder/Beam	561 ft	561.000	0	0	0			
215	1	Ben. (1)	Re Conc Abutment			0	0	0			
225	1	Ben. (1)	Steel Pile			0	0	0			
234	1	Ben. (1)	Re Conc Pier Cap			0	0	0			
310	1	Ben. (1)	Elastomeric Bearing			0	0	0			

**No scrolling for notes.**

**No scrolling to add defects or protective systems.**

- Harmless Error
- Condition Grid 5.2.3
- Speed
- Scrolling
- Condition Grid 5.3
- Video Demo
- The Features
  - Layout
  - Elements
  - Notes
  - Key Nav
- Summary

# The Features.

Inspection > Condition

Element Conditions

Show Elem Inspection Details

Element:  Struct. Unit.:

Elem.	Str. Unit.	Env.
12	1	Ben. (1)
510	1	
16	1	Ben. (1)
510	1	

Inspection > Condition

Element Conditions

Hide Elem Inspection Details

Element:  Struct. Unit.:

Elem.	Str. Unit.	Env.	Element
12	1	Ben. (1)	Re Cor
510	1		Weari
Element Manual: Notes: <a href="#">Small potholes near middle joint on the Northe</a>			
16	1	Ben. (1)	Re Cor
510	1		Weari

Inspection > Condition

Element Conditions

Hide Elem Inspection Details

Element:  Struct. Unit.:  Env.:  [Clear F](#)

Elem.	Str. Unit.	Env.	Element Description	T
12	1	Ben. (1)	Re Concrete Deck	29
510	1		Wearing Surfaces	2
Element Manual: Notes: <a href="#">Collapse Notes</a> Small potholes near middle joint on the Northeast side.				
16	1	Ben. (1)	Re Conc Top Flange	67
510	1		Wearing Surfaces	6

Notes Page

TableName : PON\_ELEM\_INSP ColumnName : elem\_notes

Small potholes near middle joint on the Northeast side.





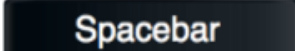

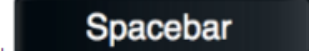
Characters remaining: 3944

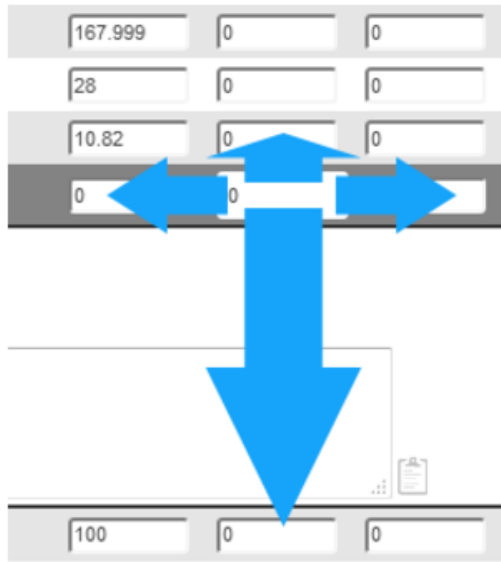
[Check Spelling](#) [Cancel](#) [Apply](#)


# The Features.

- Harmless Error
- Condition Grid 5.2.3
- Speed
- Scrolling
- Condition Grid 5.3
- Video Demo
- The Features
  - Layout
  - Elements
  - Notes
  - Key Nav
- Summary

### Keyboard Instructions

- The Element Condition Grid can now be navigated with the arrow keys on your keyboard, as long as a Quantity or Percent field is currently selected.
- Pressing  will move the cursor to the Quantity or Percent field directly to the left of the currently selected field.
- Pressing  will move the cursor to the Quantity or Percent field directly to the right of the currently selected field.
- Pressing  will select the Element Inspection directly above the currently selected Element Inspection.
- Pressing  will select the Element Inspection directly below the currently selected Element Inspection.
- Pressing  will expand or collapse the Child Element Inspections of the currently selected parent.
- Pressing  +  will expand or collapse all of the Element Inspections in the grid.





- Harmless Error
- Condition Grid 5.2.3
- Speed
- Scrolling
- Condition Grid 5.3
- Video Demo
- The Features
  - Layout
  - Elements
  - Notes
  - Key Nav
- Summary

## In Summary:

- Less spinning wheel of death (faster)
- Less scrolling for defects
- Less scrolling for notes
- Less confusion over CS1
- Arrow key navigation

Any questions?



# BrM 5.3 New Features

---

Default Data

September 12-13, 2017

Alexandria, Virginia

- Upgrade Versions
- The Problem
- The Fixes
  - Active Flags
  - Update Script
  - Data Restore
- Other Features

If you upgraded between these versions:

5.2.1	5.2.2 R2
5.2.1 SP1	5.2.3
5.2.1 SP2	5.2.3 R2
5.2.1 SP3	5.2.3 R3
5.2.2	

Then you have felt this pain.

# Default Data

- Upgrade Versions
- The Problem
- The Fixes
  - Active Flags
  - Update Script
  - Data Restore
- Other Features

Data totally reset:

Utility

Navigation Items

And partially reset:

Actions

Benefits

Parameters

Element Deterioration

LCCA Policies

Filters

Layouts

Registered Reports

NBI Deterioration

Network Policies

- Upgrade Versions
- The Problem
- The Fixes
  - Active Flags
  - Update Script
  - Data Restore
- Other Features

So we've introduced 3 fixes:

1. IsActive flags.

2. Changes to the default update script itself

3. A separate default data section of the script, for data restore options



# Active Checkboxes

- Upgrade Versions

- The Problem

- The Fixes

- Active Flags

- Update Script

- Data Restore

- Other Features

Action Defs										
Search <input type="text"/> <input type="button" value="Search"/>										
Name	Description	Notes	Order	Network Level	Bridge Replace	Required Minimum Cost	Action Type	Active		
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$ <input type="text"/>	<input type="text"/>	<input checked="" type="checkbox"/>	<input type="button" value="Add"/>	
Scour - Concrete Floor	Pave the Channel Floor	Scour Example	900	<input checked="" type="checkbox"/>	<input type="checkbox"/>	\$ <input type="text"/>	<input type="text"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="button" value="X"/>
Scour - Place Ajax	Place concrete ajax	Scour Example	900	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="text"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="button" value="X"/>
Scour - Place Riprap	Place riprap to address scour	Scour Example	900	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="text"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="button" value="X"/>
Scour Hole Repair	Fill in a scour hole	Scour Example	900	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="text"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="button" value="X"/>
Paint Sub - Network	First Painting	Example	999	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Network <input type="text"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="button" value="X"/>
Paint Super - Network	First Painting	Example	999	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Network <input type="text"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="button" value="X"/>
Place Wearing Surface - Network	First Wearing Surface	Example	999	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Network <input type="text"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="button" value="X"/>
Preserve Deck - Network	Thin-Bonded / Repair Joints	Example	999	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Network <input type="text"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="button" value="X"/>
Rehab Culvert - Network	Rehab culvert, parapets, approaches	Example	999	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Network <input type="text"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="button" value="X"/>
Rehab Deck - Network	Repair deck, joints and parapets	Example	999	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Network <input type="text"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="button" value="X"/>
Rehab Sub - Network	Repair Columns, Piers, Abutments, Piles, Walls	Example	999	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Network <input type="text"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="button" value="X"/>
Rehab Super - Network	Repair beams, paint and bearings	Example	999	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Network <input type="text"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="button" value="X"/>
Repaint Super/Sub - Network	Repair Paint	Example	999	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Network <input type="text"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="button" value="X"/>
Replace Deck - Network	Replace Deck	Example	999	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Network <input type="text"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="button" value="X"/>
Replace Structure - Network	Replace Structure	Example	999	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Network <input type="text"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="button" value="X"/>

# Active Checkboxes

- Upgrade Versions
- The Problem
- The Fixes
  - Active Flags
  - Update Script
  - Data Restore
- Other Features

Reports > Register > Crystal

**Crystal Report Registration**

Report Name: 23 Metrics Report v1.4  
RPT File: 23 Metrics Rep  
Save As: 23 Metrics Rep  
Active:   
Context: All  
Description: 23 Metrics Rep

**Argument Prompt**   **Tool Tip (optional)**

Batch Key   Enter Batch Key

Bridges > Manage Filters > Edit Filter

**Edit Filters**

Context: Bridge List   Filter: BrM - Active Status   New   Metric   English

**Filter Info**

Description:    Shared    Active    Access

**Criteria**

Tables

- bridge
- inspevnt
- roadway
- structure\_unit
- userbrdg

Bridges > Manage Layouts > Edit Layout

**Edit Layouts**

Context: Bridge List   Layout: Condition summary   New

**Layout Info**

Description: Condition summary    Shared    Active

**Layout Columns**

Table Name	Field Name	Header Text	Use Parameters			
bridge	bridge_id	Bridge ID	<input type="checkbox"/>			X
bridge	featint	Feature Intersected	<input type="checkbox"/>			X
bridge	district	District	<input checked="" type="checkbox"/>			X
bridge	county	County	<input checked="" type="checkbox"/>			X
bridge	placecode	Place	<input checked="" type="checkbox"/>			X
bridge	length	Meters	<input type="checkbox"/>			X
bridge	yearbuilt	Built	<input type="checkbox"/>			X
inspevnt	dkrating	Deck	<input type="checkbox"/>			X
inspevnt	suprating	Super	<input type="checkbox"/>			X
inspevnt	subrating	Sub	<input type="checkbox"/>			X
inspevnt	culvrating	Culv	<input type="checkbox"/>			X
inspevnt	suff_rate	Suff Rate	<input type="checkbox"/>			X

Top   Up   Down   Bottom

# Active Checkboxes

- Upgrade Versions
- The Problem
- The Fixes
  - Active Flags
  - Update Script
  - Data Restore
- Other Features

Admin > General Config > Parameters

**Parameters**

Table Name	Field Name	Active
bridge	bridgedem	✗
bridge	county	✗
bridge	custodian	✗
bridge	designappr	✗
bridge	designload	✗
bridge	designmain	✗
bridge	district	✗
bridge	dkmembtype	✗
bridge	dkprotect	✗
bridge	dkstructyp	✗
bridge	dksurftype	✗
bridge	fc_detail	✗
bridge	fhwa_reg	✗
bridge	fips_state	✗
bridge	histsign	✗
bridge	irtype	✗
bridge	materialappr	✗
bridge	materialmain	✗
bridge	n_fhwa_reg	✗
bridge	navctrl	✗
bridge	nbislen	✗
bridge	nstatecode	✗
bridge	on_off_sys	✗
bridge	ortype	✗
bridge	owner	✗

Add

Table Name	Field Name
Add	

**Parameter Values and Labels**

Order	Value	Short Label	Description	Active
12	12	12 Florida	Florida	✗
36	36	36 New York	New York	✗
-2	-2	Not Applicable (P)	Not Applicable	✗
-1	-1	Unknown (P)	Unknown	✗
17	17	17 Illinois	Illinois	✗
47	47	47 Tennessee	Tennessee	✗
44	44	44 Rhode Island	Rhode Island	✗
08	08	08 Colorado	Colorado	✗
51	51	51 Virginia	Virginia	✗
26	26	26 Michigan	Michigan	✗
10	10	10 Delaware	Delaware	✗
25	25	25 Massachusetts	Massachusetts	✗
49	49	49 Utah	Utah	✗
16	16	16 Idaho	Idaho	✗
11	11	11 D.C.	District of Columbia	✗
37	37	37 North Carolina	North Carolina	✗
19	19	19 Iowa	Iowa	✗
41	41	41 Oregon	Oregon	✗
27	27	27 Minnesota	Minnesota	✗
46	46	46 South Dakota	South Dakota	✗
35	35	35 New Mexico	New Mexico	✗
32	32	32 Nevada	Nevada	✗
42	42	42 Pennsylvania	Pennsylvania	✗
50	50	50 West Dakota	West Dakota	✗

Add

Order	Value	Short Label	Description	Active
Add				✗

# Changes to the Update Script

If the GUID exists, move on. If not, supply missing data.



LR_VEHICLE_DEFS_GD	VEHICLE_NAME	DESCRI...	DEFAULT_METHOD	DEFAULT_ANALYSIS	STANDARD	ISACTIVE	SORT_ORDER	CREATE_USERKEY
079F909E03A947ED914CC53870E22337	HL-93 Inventory	NULL	8	0	T	T	4	B330B38925654E468AE8E883F62A0E82
10E8BEF49F6746B09B2F2342C6B15053	HS-20 Operating	NULL	6	0	T	T	1	B330B38925654E468AE8E883F62A0E82
29E0E23854D046448CF8F006CE63E815	Type 3-3	NULL	8	1	T	T	7	B330B38925654E468AE8E883F62A0E82
516CC4CF283A4EE7A4ACE0BB1393CB6E	Notational SHV	NULL	8	2	T	T	8	B330B38925654E468AE8E883F62A0E82
54D297A41FD94ECEB3C8793139E2E42A	Type 3S2	NULL	8	1	T	T	6	B330B38925654E468AE8E883F62A0E82
5DC2C257F8CC445A9E2A4BC7511A6B72	HS-20 Inventory	NULL	6	0	T	T	2	B330B38925654E468AE8E883F62A0E82
65846468BA6B4ED196A3EC16AF6F1C49	EV3	NULL	8	2	T	T	14	B330B38925654E468AE8E883F62A0E82
98E3BB28889640548D21AAA001B9711D	SHV 4	NULL	8	2	T	T	9	B330B38925654E468AE8E883F62A0E82
A8774292C8104FFD888C08A04511ED7A	Type 3	NULL	8	1	T	T	5	B330B38925654E468AE8E883F62A0E82
B9A28230E8A54ECD8F4B28474B8940A6	EV2	NULL	8	2	T	T	13	B330B38925654E468AE8E883F62A0E82
E486AB0DE62C4DECBBCFB1F4BFD3581E	HL-93 Operating	NULL	8	0	T	T	3	B330B38925654E468AE8E883F62A0E82
EA2945D043D544F4AA89A732680F7E90	SHV 5	NULL	8	2	T	T	10	B330B38925654E468AE8E883F62A0E82
EB7623D46A0F4AC99F366D8CF6752D9E	SHV 6	NULL	8	2	T	T	11	B330B38925654E468AE8E883F62A0E82
F7554D6C983542709BD0259317D4EF11	SHV 7	NULL	8	2	T	T	12	B330B38925654E468AE8E883F62A0E82

- Upgrade Versions
- The Problem
- The Fixes
  - Active Flags
  - Update Script
  - Data Restore
- Other Features

# Restore Default Data

You can change the setting and rerun the script to restore the default data.

- Upgrade Versions

- The Problem

- The Fixes

- Active Flags

- Update Script

- Data Restore

- Other Features

```
-- Turn on or off parts of the upgrade. Please refer to documents for more details.
INSERT INTO PON_GLOB_VAR (VARI, VAR_VALUE) VALUES ('ARCHIVE_PON_ELEM_INSP', 'DEFAULT'); -- DEFAULT | ALWAYS | NEVER
INSERT INTO PON_GLOB_VAR (VARI, VAR_VALUE) VALUES ('INSERT_STANDARD_BENEFITS_ACTIONS', 'DEFAULT'); -- DEFAULT | SKIP
INSERT INTO PON_GLOB_VAR (VARI, VAR_VALUE) VALUES ('CONVERT_METRIC_TO_ENGLISH', 'ON_(ONLY_COLUMNS_IN_PON_DICT)'); -- OFF | ON_(
INSERT INTO PON_GLOB_VAR (VARI, VAR_VALUE) VALUES ('FORWARD_ELEMS_FOR_BLANK_INSP', 'ON'); -- ON | OFF
INSERT INTO PON_GLOB_VAR (VARI, VAR_VALUE) VALUES ('INSPDATE_CONVERSION_END_DATE', 'OFF'); -- Default createdatetime end date w
INSERT INTO PON_GLOB_VAR (VARI, VAR_VALUE) VALUES ('DISABLE_FORCE_DEF_BY_TABLE', 'OFF'); -- ON | OFF If set to 'ON', disables

-- Turn on or off parts of the scripts. These will cause scripts to fail and are to be used for debugging.
INSERT INTO PON_GLOB_VAR (VARI, VAR_VALUE) VALUES ('PCB', 1); -- Pre-clean up
INSERT INTO PON_GLOB_VAR (VARI, VAR_VALUE) VALUES ('TSC', 1); -- Table Schema Change/Creation.
INSERT INTO PON_GLOB_VAR (VARI, VAR_VALUE) VALUES ('PUP', 1); -- Granting 'PONTISUSER' permissions to new tables.
INSERT INTO PON_GLOB_VAR (VARI, VAR_VALUE) VALUES ('DDV', 1); -- Default Data.
INSERT INTO PON_GLOB_VAR (VARI, VAR_VALUE) VALUES ('FDV', 1); -- Force Default Data.
INSERT INTO PON_GLOB_VAR (VARI, VAR_VALUE) VALUES ('SUI', 1); -- Index update/creation.
INSERT INTO PON_GLOB_VAR (VARI, VAR_VALUE) VALUES ('SPK', 1); -- Primary Key creation.
INSERT INTO PON_GLOB_VAR (VARI, VAR_VALUE) VALUES ('SFK', 1); -- Foreign Key creation.
INSERT INTO PON_GLOB_VAR (VARI, VAR_VALUE) VALUES ('SVW', 1); -- Views creation.
INSERT INTO PON_GLOB_VAR (VARI, VAR_VALUE) VALUES ('STG', 1); -- Triggers creation.
INSERT INTO PON_GLOB_VAR (VARI, VAR_VALUE) VALUES ('PDR', 1); -- Procedures creation.
INSERT INTO PON_GLOB_VAR (VARI, VAR_VALUE) VALUES ('FNC', 1); -- Functions creation.
INSERT INTO PON_GLOB_VAR (VARI, VAR_VALUE) VALUES ('PCA', 1); -- Post Clean-up.

-- HAS_GUIDS is 1 if the upgrade script has added GUID columns to an old database or the upgrade script is creating a new BRM d
INSERT INTO PON_GLOB_VAR (VARI, VAR_VALUE) VALUES ('HAS_GUIDS', CASE WHEN EXISTS(SELECT 1 FROM SYS.COLUMNS WHERE NAME = 'BRIDGE
OR NOT EXISTS(SELECT 1 FROM SYS.TABLES WHERE NAME = 'BRIDGE')
INSERT INTO PON_GLOB_VAR (VARI, VAR_VALUE) VALUES ('NEW_INSTALL', CASE WHEN NOT EXISTS(SELECT 1 FROM INFORMATION_SCHEMA.TABLES W

-- The inserts beneath are normally set to 0.
INSERT INTO PON_GLOB_VAR (VARI, VAR_VALUE) VALUES ('PRINT', 0); -- Print out the code before executing with EXEC().
```

- Upgrade Versions
- The Problem
- The Fixes
  - Active Flags
  - Update Script
  - Data Restore
- Other Features

This will make upgrades easier.

## 5.3 features we will discuss today:

Condition Grid  
Default Data

Load Rating Module  
Cross Section Module

## 5.3 features we won't be presenting, but you should look into:

- Assign Filters to Groups
- Workstation uses ISS instead of Cassini
- Parameter page allows nulls
- Parameters sort.
- 2018 Sufficiency Rating
- SR calculates faster.
- Network policies can be based on element triggers
- Error Checking Pre-script

- Upgrade Versions

- The Problem

- The Fixes

- Active Flags

- Update Script

- Data Restore

- Other Features

Questions.