

AASHTOWare Bridge Management Update



AASHTOWare Bridge Management

www.AASHTOWareBridge.com



User Group Priorities

User Group Concern/Priority Description	Priority	Response
More Training on the Pyramid (Optimization), PONWEB-2256	1	✓ The 5.2.3 release will include basic use case examples in the user manual. In addition there is a series of tutorial videos on the website (aastowarebridge.com).
Error Check Pre-Script (Upgrade script should perform all checks, then all installs. Like a checking pre-script), PONWEB-2179	2	✓ Part of BrM 5.3
Clearance Table / Form / Report, PONWEB-1564	3	Materials will be presented during the 2017 BrMUG and is included in the list for voting by the conclave.
Default data script (Upgrade scripts need to keep user customized data.), PONWEB-2190	4	✓ Part of BrM 5.3
Responsiveness of pages to different screens (HTML-5), PONWEB-2265	5	✓ Part of BrM 5.3 with the rewrite of the condition grid
Cross - Sections Tables / Forms / Reports, PONWEB-1565	6	✓ Part of BrM 5.3
Tracking Historical Changes (Auditing changes to all fields of database), PONWEB-2900 (Was PONWEB-2204)	7	Materials will be presented during the 2017 BrMUG and is included in the list for voting by the conclave.
Screen Needs List Export, Export All Lists (e.g. Needs List) and Graphs, PONWEB-2310	8	✓ Was approved by the TF to be included in the next release.
Load Ratings, PONWEB-2234	9	✓ Part of BrM 5.3
QC / QA Process, PONWEB-2237	10	Materials will be presented during the 2017 BrMUG and is included in the list for voting by the conclave.
JIRA needs some improved filtering	-	This is an issue that is outside the control of the TF. JIRA is the application selected by AASHTO
Update Multimedia PONWEB-2200	11	Materials will be presented during the 2017 BrMUG and is included in the list for voting by the conclave.



User Group Priorities

User Group Concern/Priority Description	Priority	Response
Import Process - More detailed errors, PONWEB-2311	12	Materials will be presented during the 2017 BrMUG and is included in the list for voting by the conclave.
Multiple NBI Deterioration Curves, PONWEB-2312	13	The Taskforce understands the benefit of this enhancement. If this enhancement is of high priority to the user group the TF will consider including this enhancement in the next version of the software. <i>If</i> this enhancement is low priority and/or is only desired by very few user this will need to be funded through service units
Incorporate 3-D modeling to inspections (Becky's demo) PONWEB-2198	14	Materials will be presented during the 2017 BrMUG and is included in the list for voting by the conclave.
Reports Stored Elsewhere , PONWEB-2180	15	✓ Part of BrM 5.3
An App Store , PONWEB-2313	16	The Taskforce understands the benefit of this enhancement. If this enhancement is of high priority to the user group the TF will consider including this enhancement in the next version of the software. If this enhancement is low priority and/or is only desired by very few user this will need to be funded through service units
Cassini Stability , PONWEB 2314	17	✓ Part of BrM 5.3
Network Policy Rules , PONWEB-2315	18	✓ Part of BrM 5.3
Task Scheduler, PONWEB-2195	19	Materials will be presented during the 2017 BrMUG and is included in the list for voting by the conclave.
Sync , PONWEB-2241	20	The Taskforce understands the benefit of this enhancement. If this enhancement is of high priority to the user group the TF could consider including this enhancement in the next version of the software. If this enhancement is low priority and/or is only desired by very few user this may need to be funded through service units. Bentley is working on a mobile application that should be available in 2018 that will have this functionality.



User Group Priorities Survey Results

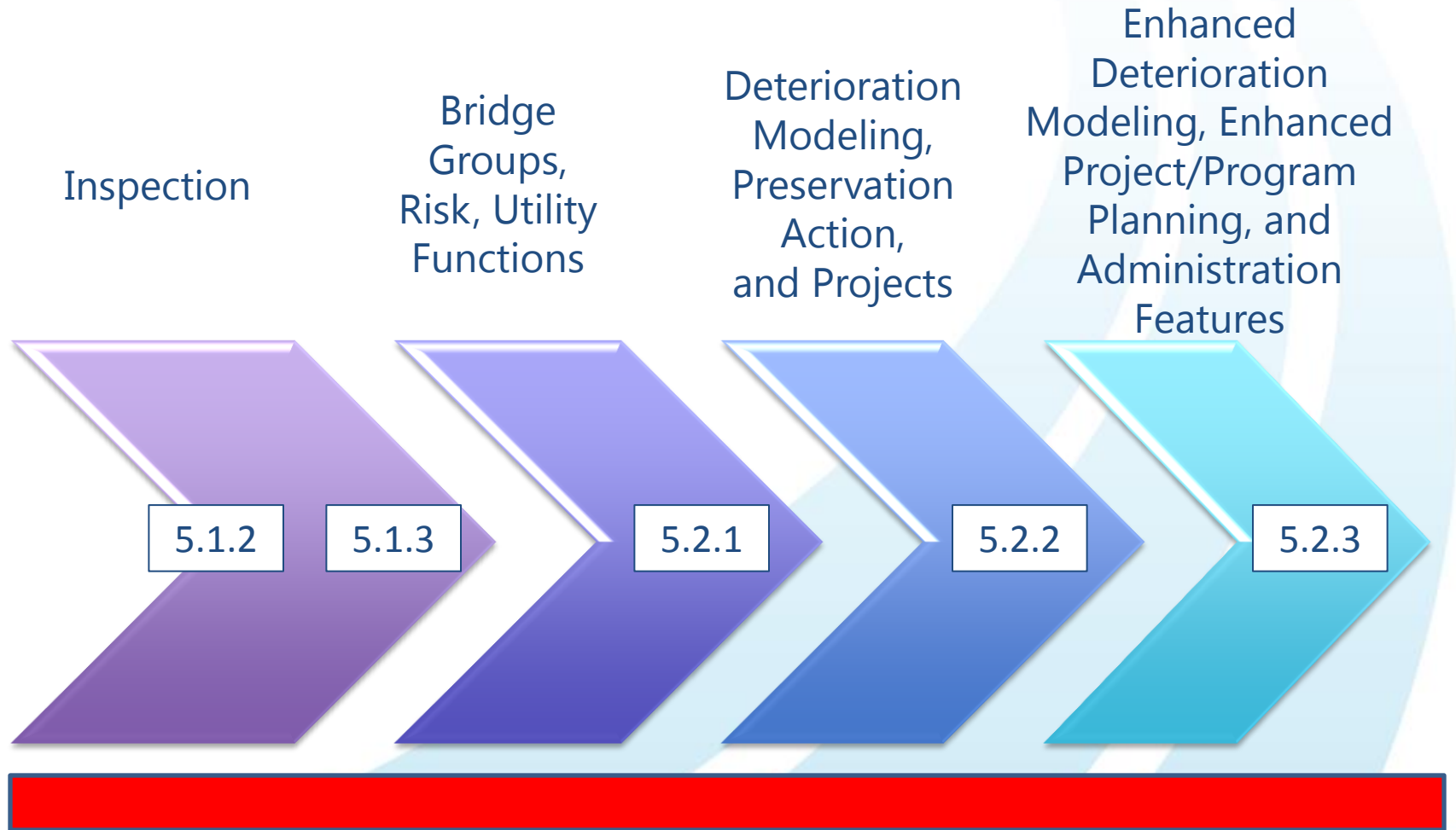
Rank	Total Points	Number of User Votes (28 Users Responded)	Summary Title
1	359	23	Technical Manual for BrM 5.2.3 - Bridge Management Analysis
2	249	19	Clearance tab
3	241	19	QA/QC Process (Combined with Track Historical Changes = 399 Points)
4	195	14	Expanded Export Import Options
5	158	15	Track Historical Changes
6	156	18	Enhanced functionality for Utility Values and Health Index: Bridge > View List & Analysis > Utility Value (Combined with Task Scheduler = 262 Points)
7	150	14	General Dashboards
8	140	17	Project Costing Tools
9	132	13	Multimedia interface
10	106	11	Task scheduler/Scheduled Reports
11	100	1	Work items for Tunnels
12	99	6	Tool-tip box turned into a right-click menu
12	99	6	3D Inspection
14	82	7	Protective Systems and Environments



User Group Priorities Survey Results

Rank	Total Points	Number of User Votes (28 Users Responded)	Summary Title
15	80	8	LCCA to include a bridge level recursive analysis
16	75	1	Rule builder to allow combination of condition state percentages.
17	70	5	Import Process - More detailed errors
18	63	9	Admin > Modeling > Advanced Formulas, Use user tables in formulas
18	63	10	Date of Improvement Change, for Target Setting
20	56	7	Modernization of the database structure
21	25	1	Training on how to use the features of BrM 5.2.3
22	20	1	Create MODTIME for USERINSP/USERBRDG tables.
23	19	2	User Fields on Formulas
24	16	1	Provide via services to clear the server cache
24	16	1	Maintain Legacy Primary Keys
26	11	1	NBE/BME/ADE XML upload, include in item 16 above.
27	8	1	Capability to make Mapping feature read only
28	2	1	Add multi-media capabilities to the tunnel module

Bridge Management 5.2 Stages



Bridge Management 5.2.3

- Released in December 2016
- Fully supporting the FHWA Identified Rule Making
- Key Features
 - Capability to perform life cycle cost analysis
 - Capability to perform network level analysis
 - Tracking and reporting of FHWA's 23 metrics
 - Dashboards for easy data visualization and tracking performance measures
 - Enhanced User Help System
 - Tunnels module to record and track National Tunnel Inventory data as required by FHWA



Bridge Management 5.2.3 Release 3

- Released March 2017
- Key Updates
 - Tunnel Defects expanded to better align with the Specifications for the National Tunnel Inventory
 - Rating Factor of 9 is correctly exported to the NBI file
 - USERINSP is now copied over when creating a new inspection
 - Various other minor enhancements and bug fixes



Bridge Management 5.3

- Released September 2017
- Key Features
 - Element Condition Grid Re-Do
 - New Load Rating Module
 - New Cross Section Module
 - Migration from Cassini to IIS Express (Workstation)
 - Enhanced Rule Builder for Network Policies
 - Updates to Handling of Default Data
 - Error Check Prescript
 - Miscellaneous Small Enhancements/Bug Fixes



Element Condition Grid

Element Conditions Arrow Key Grid Navigation Help

Element: Struct. Unit: Env.: [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	74712	sq.ft	14,329.000	58978	1405	0			
1090	1		Exposed Rebar	3	sq.ft	0.000	3	0	0			
1120	1		Efflorescence/Rust Staining	2940	sq.ft	0.000	2940	0	0			
1130	1		Cracking (RC and Other)	31290	sq.ft	0.000	29885	1405	0			
1190	1		Abrasion(PSC/RC)	26150	sq.ft	0.000	26150	0	0			
107	1	Ben. (1)	Steel Opn Girder/Beam	7354	ft	7,344.000	10	0	0			
Element Manual:												
Notes: [edit]												
1000	1		Corrosion	10	ft	0.000	10	0	0			
515	1		Steel Protective Coating	101694	ft	101,644.000	0	50	0			
113	1	Ben. (1)	Steel Stringer	2592	ft	2,592.000	0	0	0			
152	1	Ben. (1)	Steel Floor Beam	1824	ft	1,824.000	0	0	0			
205	1	Ben. (1)	Re Conc Column	22	each	16.000	6	0	0			
215	1	Ben. (1)	Re Conc Abutment	130	ft	130.000	0	0	0			
220	1	Ben. (1)	Re Conc Pile Cap/Ftg	24	ft	0.000	0	24	0			
231	1	Ben. (1)	Steel Pier Cap	146	ft	146.000	0	0	0			
234	1	Ben. (1)	Re Conc Pier Cap	543	ft	387.000	152	4	0			
301	1	Ben. (1)	Pourable Joint Seal	168	ft	0.000	103	65	0			
305	1	Ben. (1)	Assem Jnt Wthut Seal	110	ft	110.000	0	0	0			
311	1	Ben. (1)	Moveable Bearing	66	each	62.000	4	0	0			
313	1	Ben. (1)	Fixed Bearing	24	each	24.000	0	0	0			
321	1	Ben. (1)	Re Conc Approach Slab	1618	sq.ft	205.000	1298	115	0			
330	1	Ben. (1)	Metal Bridge Railing	2265	ft	2,265.000	0	0	0			
331	1	Ben. (1)	Re Conc Bridge Railing	2265	ft	2,256.000	8	1	0			



Load Rating Module

Bridge

Facility Carried (007): US 82 MP 239.816 (FIX PAF)

Metric English

Inspection > Load Ratings

Rating Event: [Create New Load Rating Event](#)

Current & Reported Ratings

Load Rating Review Recommended

Reported Rating

Open / Posted / Closed (041):
 Design Load (031):
 Posting (070):

Vehicle	Item 64	Item 66	Rating	Tons	Event	Method 63/65
HS-20 Operating	<input type="checkbox"/>	<input type="checkbox"/>	0.83	0	5/12/2017	6 Load Factor (MS18)
HS-20 Inventory	<input type="checkbox"/>	<input type="checkbox"/>	1.38	0	5/12/2017	6 Load Factor (MS18)
HL-93 Operating	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.73	0	5/12/2017	8 LRFR (HL93)
HL-93 Inventory	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0.95	0	5/12/2017	8 LRFR (HL93)
Type 3	<input type="checkbox"/>	<input type="checkbox"/>	1.88	0	5/12/2017	8 LRFR (HL93)
Type 3S2	<input type="checkbox"/>	<input type="checkbox"/>	1.52	0	5/12/2017	8 LRFR (HL93)
Type 3-3	<input type="checkbox"/>	<input type="checkbox"/>	1.53	0	5/12/2017	8 LRFR (HL93)
Notational SHV	<input type="checkbox"/>	<input type="checkbox"/>	1.59	0	5/12/2017	8 LRFR (HL93)
SHV 4	<input type="checkbox"/>	<input type="checkbox"/>	1.7	0	5/12/2017	8 LRFR (HL93)
SHV 5	<input type="checkbox"/>	<input type="checkbox"/>	1.51	0	5/12/2017	8 LRFR (HL93)
SHV 6	<input type="checkbox"/>	<input type="checkbox"/>	1.35	0	5/12/2017	8 LRFR (HL93)
SHV 7	<input type="checkbox"/>	<input type="checkbox"/>	1.22	0	5/12/2017	8 LRFR (HL93)
EV2	<input type="checkbox"/>	<input type="checkbox"/>	1.73	0	5/12/2017	8 LRFR (HL93)
EV3	<input type="checkbox"/>	<input type="checkbox"/>	1.72	0	5/12/2017	8 LRFR (HL93)

Load Rating Reports

Event Name: Load Rating Date:
 Load Rater: Reviewer:
 Software used: Secondary Software:

Wearing Surface / Fill Depth: inches Category:

[Add New Rating](#)

Vehicle	Current	Rating	Tons	Method	Analysis Type	Limit State	Location	Notes
HS-20 Operating	<input checked="" type="checkbox"/>	0.83	0	6 Load Factor (MS18)	Design	NA		
HS-20 Inventory	<input checked="" type="checkbox"/>	1.38	0	6 Load Factor (MS18)	Design	NA		
HL-93 Operating	<input checked="" type="checkbox"/>	0.73	0	8 LRFR (HL93)	Design	NA		
HL-93 Inventory	<input checked="" type="checkbox"/>	0.95	0	8 LRFR (HL93)	Design	NA		
Type 3	<input checked="" type="checkbox"/>	1.88	0	8 LRFR (HL93)	Legal	NA		
Type 3S2	<input checked="" type="checkbox"/>	1.52	0	8 LRFR (HL93)	Legal	NA		
Type 3-3	<input checked="" type="checkbox"/>	1.53	0	8 LRFR (HL93)	Legal	NA		
Notational SHV	<input checked="" type="checkbox"/>	1.59	0	8 LRFR (HL93)	Permit	NA		
SHV 4	<input checked="" type="checkbox"/>	1.7	0	8 LRFR (HL93)	Permit	NA		
SHV 5	<input checked="" type="checkbox"/>	1.51	0	8 LRFR (HL93)	Permit	NA		
SHV 6	<input checked="" type="checkbox"/>	1.35	0	8 LRFR (HL93)	Permit	NA		
SHV 7	<input checked="" type="checkbox"/>	1.22	0	8 LRFR (HL93)	Permit	NA		
EV2	<input checked="" type="checkbox"/>	1.73	0	8 LRFR (HL93)	Permit	NA		
EV3	<input checked="" type="checkbox"/>	1.72	0	8 LRFR (HL93)	Permit	NA		



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SHV 4	<input type="checkbox"/>	<input type="checkbox"/>	1.7	0	5/12/2017	8 LRFR (HL93)
SHV 5	<input type="checkbox"/>	<input type="checkbox"/>	1.51	0	5/12/2017	8 LRFR (HL93)
SHV 6	<input type="checkbox"/>	<input type="checkbox"/>	1.35	0	5/12/2017	8 LRFR (HL93)
SHV 7	<input type="checkbox"/>	<input type="checkbox"/>	1.22	0	5/12/2017	8 LRFR (HL93)
EV2	<input type="checkbox"/>	<input type="checkbox"/>	1.73	0	5/12/2017	8 LRFR (HL93)
EV3	<input type="checkbox"/>	<input type="checkbox"/>	1.72	0	5/12/2017	8 LRFR (HL93)

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Event Name: Load Rating Date:
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Vehicle	Current	Rating	Tons	Method	Analysis Type	Limit State	Location	Notes
HS-20 Operating	<input checked="" type="checkbox"/>	0.83	0	6 Load Factor (MS18)	Design	NA		<input type="checkbox"/> <input checked="" type="checkbox"/>
Nov 22, 2011 - 11/22/2011		0.69	0	6 Load Factor (MS18)	Design	NA		
HS-20 Inventory	<input checked="" type="checkbox"/>	1.38	0	6 Load Factor (MS18)	Design	NA		<input type="checkbox"/> <input checked="" type="checkbox"/>
Nov 22, 2011 - 11/22/2011		1.15	0	6 Load Factor (MS18)	Design	NA		
HL-93 Operating	<input checked="" type="checkbox"/>	0.73	0	8 LRFR (HL93)	Design	NA		<input type="checkbox"/> <input checked="" type="checkbox"/>
Nov 22, 2011 - 11/22/2011		0.67	0	8 LRFR (HL93)	Design	NA		
HL-93 Inventory	<input checked="" type="checkbox"/>	0.95	0	8 LRFR (HL93)	Design	NA		<input type="checkbox"/> <input checked="" type="checkbox"/>
Nov 22, 2011 - 11/22/2011		0.87	0	8 LRFR (HL93)	Design	NA		
Type 3	<input checked="" type="checkbox"/>	1.88	0	8 LRFR (HL93)	Legal	NA		<input type="checkbox"/> <input checked="" type="checkbox"/>
Type 3S2	<input checked="" type="checkbox"/>	1.52	0	8 LRFR (HL93)	Legal	NA		<input type="checkbox"/> <input checked="" type="checkbox"/>
Type 3-3	<input checked="" type="checkbox"/>	1.53	0	8 LRFR (HL93)	Legal	NA		<input type="checkbox"/> <input checked="" type="checkbox"/>
Notational SHV	<input checked="" type="checkbox"/>	1.59	0	8 LRFR (HL93)	Permit	NA		<input type="checkbox"/> <input checked="" type="checkbox"/>
SHV 4	<input checked="" type="checkbox"/>	1.7	0	8 LRFR (HL93)	Permit	NA		<input type="checkbox"/> <input checked="" type="checkbox"/>
SHV 5	<input checked="" type="checkbox"/>	1.51	0	8 LRFR (HL93)	Permit	NA		<input type="checkbox"/> <input checked="" type="checkbox"/>
SHV 6	<input checked="" type="checkbox"/>	1.35	0	8 LRFR (HL93)	Permit	NA		<input type="checkbox"/> <input checked="" type="checkbox"/>
SHV 7	<input checked="" type="checkbox"/>	1.22	0	8 LRFR (HL93)	Permit	NA		<input type="checkbox"/> <input checked="" type="checkbox"/>
EV2	<input checked="" type="checkbox"/>	1.73	0	8 LRFR (HL93)	Permit	NA		<input type="checkbox"/> <input checked="" type="checkbox"/>
EV3	<input checked="" type="checkbox"/>	1.72	0	8 LRFR (HL93)	Permit	NA		<input type="checkbox"/> <input checked="" type="checkbox"/>



Cross Section Module

Inspection > Cross Sections

Cross Sections

Bridge:

Bridge Details

Facility Carried (007): ????????????????????

Feature Intersected (006A): ????????????????????????????????

Type: Special

Milepoint (011): 0.006

Graph

View

Orientation: [Create](#)

Streambed Cross Sections ***You must create an Offset to create a Month/Year. ***You must create an Orientation to create an Offset.

Scour Potential Evaluation

Structure Detail

***Please Create/Select an Orientation to enter Structure Detail!

Original Streambed Elevations

***Please Create/Select an Orientation to enter Original Streambed Elevations!

Scour Resistant Layer

[Add](#)

Cross Section Module

Inspection > Cross Sections

Cross Sections

Bridge:

Bridge Details

Facility Carried (007): I-59
Feature Intersected (006A): FACTORY CRK.

Type: Regular NBI
Milepoint (011): 26.45

Graph

View

Orientation:

▶ Streambed Cross Sections Month/Year: Offset:

▶ Scour Potential Evaluation

▶ Structure Detail

▶ Original Streambed Elevations

▶ Scour Resistant Layer

Cross Section Module

View

Orientation: Left View Delete

Streambed Cross Sections Month/Year: 11/2016 Create Copy Delete Offset: 33 Create Copy Delete

Scour Items

Station EQ: + = +
 Snd/Elev Indicator: Elevations
 Offset Remark:
 Water Surface:

Elev EQ: =
 Location of BM:
 Elev Basis: Plans

Line Settings

Name:
 Color: Red
 Show In Legend
 Visible

Details

Station	Snding/Elev	Remarks	
<input type="text" value="0"/> + <input type="text" value="0"/>	<input type="text"/>	<input type="text"/>	Add
0 + 0	261.7001	AB-1 taken fr. lake el. 187.0	×
0 + 5	261.7001		×
0 + 59	245.7999	B-2	×
0 + 63	242.2001		×
1 + 0	225		×
1 + 20	216.2001		×
1 + 38	213.6001		×
1 + 50	207.8999		×
1 + 58	165		×
1 + 80	159		×
2 + 3	137	B-3 P-2	×
2 + 21	127		×

Copy To Right View

Cross Section Module

Structure Detail

Scour Items

Highwater Elev: Highwater Year:
 Upstream Side: Downstream Side:
 Station EQ: + = + Elev EQ: =
 Station Direction: Location of BM:
 Bent Direction: Elev Basis:
 Data Source:

Line Settings

Name:
 Style:
 Color:
 Show In Legend
 Visible

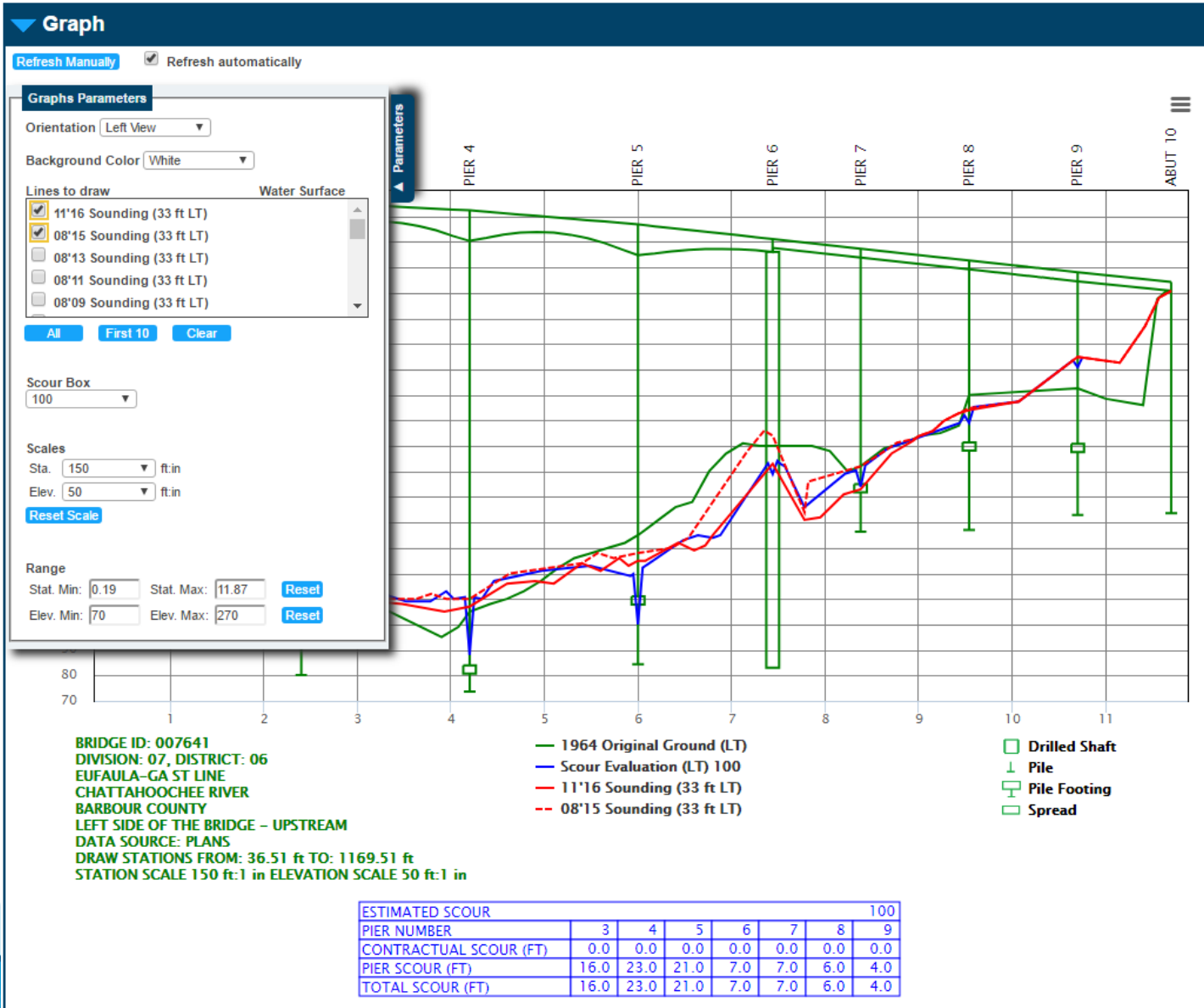
Details

Station	Ref Curb/Rail	Deck	Bot FTG	Crit Pier Scour Depth	Pile Tip	FTG	Super Thick	Remarks	
<input type="text" value="0"/> + <input type="text" value="0"/>						Pile Bent			Add
0 + 0	267.0013	267.0013			200.6693	Pile Bent	3.501	ABUT 1	✗
0 + 58.9993	266.9193	266.9193	196.2795			Spread Footin	3.501	B-2	✗
0 + 59.101	266.9193	266.9193	196.2795			No Footing	5		✗
0 + 77.0013	266.7815	266.7815				No Footing	5.098		✗
0 + 95	266.6404	266.6404				No Footing	5.499		✗
1 + 12.9987	266.4993	266.4993				No Footing	6.099		✗
1 + 31.0007	266.3615	266.3615				No Footing	6.801		✗
1 + 48.9993	266.2106	266.2106				No Footing	7.799		✗
1 + 67.0013	266.0597	266.0597				No Footing	9.101		✗
1 + 85	265.9088	265.9088				No Footing	10.699		✗
2 + 2.9003	265.7612	265.7612				No Footing	12.001		✗
2 + 2.9987	265.7612	265.7612	110.9514		80.1214	Pile Footing	12.001	B-3	✗

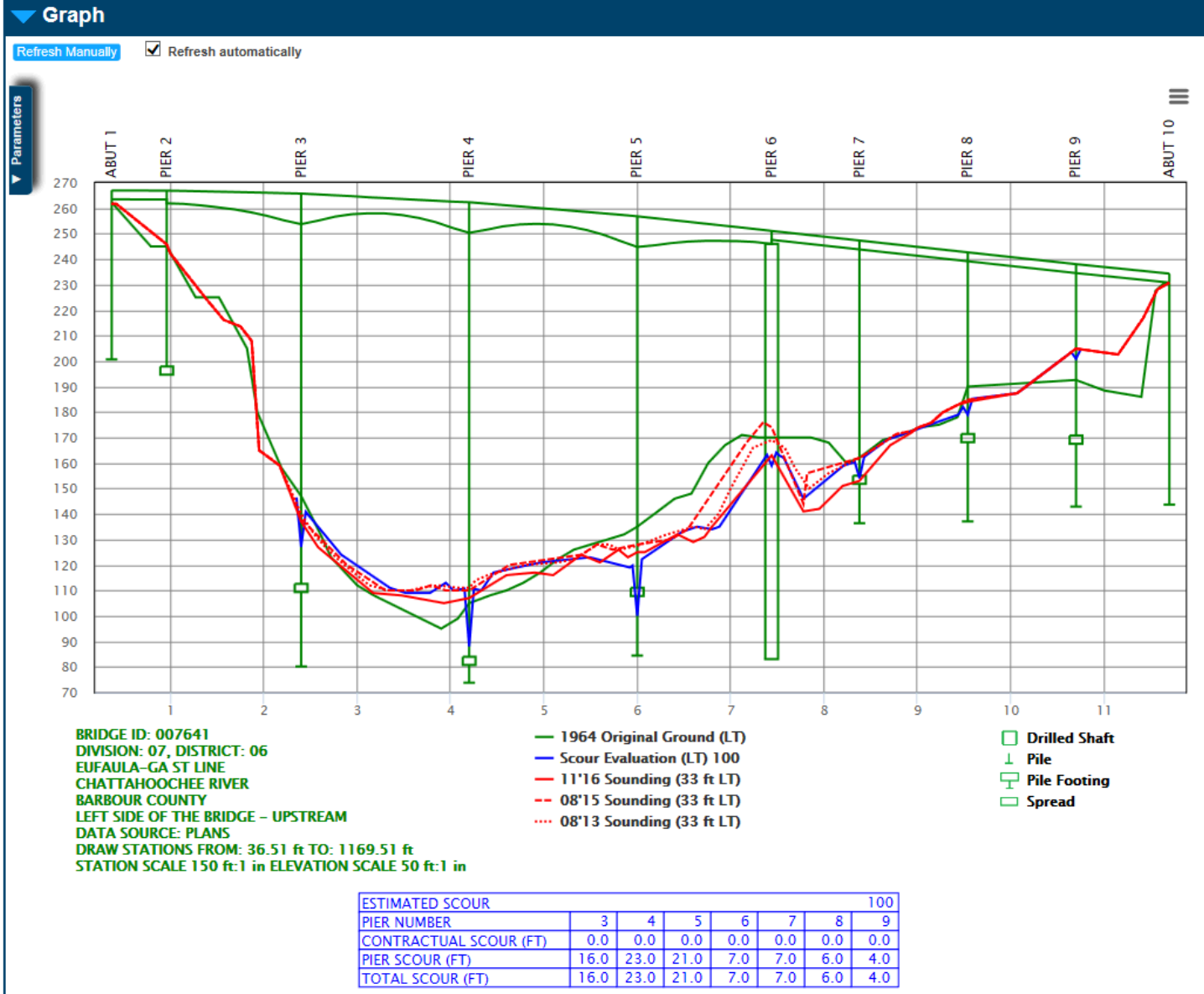
[Copy To Right View](#)

[Delete](#)

Cross Section Module



Cross Section Module



Rule Builder for Network Policies

Network Policy Editor

Network Policy [Create New](#)

Network Policy Details

Network Policy Name:

Actions

- Replace Deck - Network
 - Do Nothing
- Replace Super - Network
 - Do Nothing
 - Rehab Sub - Network
- Repaint Super/Sub - Network
 - Do Nothing
 - Rehab Sub - Network
- Rehab Sub - Network
- Rehab Super - Network
 - Do Nothing
 - Rehab Sub - Network

Details

Action: Project Category:

Action Conditional Rule

Summary

(Column 'dkrating' of Table 'inspevnt' is In Set '1 Imminent failure, 2 Critical, 3 Serious, 4 Poor, 5 Fair, 6 Satisfactory')

Rule Builder

[Add Condition](#)

- Is Null
- Bridge Health Index
- Element Health Index
- Category Health Index
- Material Health Index
- Type Health Index
- Element Condition State
- Column Value In Param Set
- Column Value

Type:

Table Column Value Is Set

- Unknown (NBI)
- 0 Failed
- 1 Imminent failure
- Test
- 2 Critical
- 3 Serious
- 4 Poor
- 5 Fair
- NBI test
- 6 Satisfactory

[Remove Condition](#)

Follow-up Actions

-
-
-
-
- [Add Action](#)

**Indicates an action is no longer a network level action. These actions can be can be changed, selected, or deleted, but once saved cannot be re-added.

- BRIDGES
- TUNNELS
- REPORTS
- ADMIN
- SECURITY
- GENERAL CONFIG
- MAPPING
- MODELING CONFIG
- ELEMENT SPEC
- ELEMENT-CHILD LINKING
- PROJECT CATEGORIES
- DETERIORATION PROFILES
- ELEMENTS
- ASSESSMENT
- BENEFIT GROUPS
- ACTION DEFS
- COST INDEX
- NETWORK POLICIES
- ADVANCED FORMULAS
- UTILITY
- WEIGHTS PROFILE
- NBI DETERIORATION MODELS
- NBI CONVERSION PROFILES

Admin > Modeling Config > Network Policies

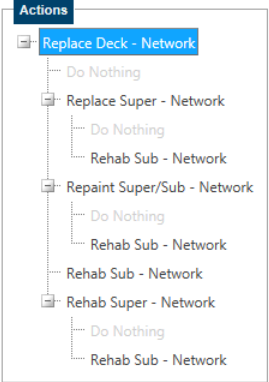
- BRIDGES
- TUNNELS
- REPORTS
- ADMIN
- SECURITY
- GENERAL CONFIG
- MAPPING
- MODELING CONFIG
- ELEMENT SPEC
- ELEMENT-CHILD LINKING
- PROJECT CATEGORIES
- DETERIORATION PROFILES
- ELEMENTS
- ASSESSMENT
- BENEFIT GROUPS
- ACTION DEFS
- COST INDEX
- NETWORK POLICIES
- ADVANCED FORMULAS
- UTILITY
- WEIGHTS PROFILE
- NBI DETERIORATION MODELS
- NBI CONVERSION PROFILES
- PRESERVATION AND REPLACEMENT POLICY
- LCCA POLICY RULES
- LCCA ASSIGN POLICIES
- SUBDIVISION PROFILES

Network Policy Editor

Network Policy:

Network Policy Details

Network Policy Name:



Details

Action: Project Category:

Action Conditional Rule

Summary

(Percent Condition State '4' of Element '12 - Re Concrete Deck' Must Equal Number Value 25)

Rule Builder

Type:
Percent Condition State: of Element: Must Be:
Type:
Number Value:

Follow-up Actions

-
-
-
-
-

**Indicates an action is no longer a network level action. These actions can be changed, selected, or deleted, but once saved cannot be re-added.

Questions?

