



BrM 7.2 Update

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BrM 7.2 Releases

- 7.2.1
 - Includes small fixes and enhancements to version 7.2
 - Made available to users July 30, 2026
- 7.2.2
 - Includes a number of enhancements and fixes for user-submitted bugs
 - Available to users soon

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BrM 7.2.1 Release Enhancements

BRMSD Ticket	Enhancement Description
<u>BRMSD-9924</u>	Added a Layout selector to the table listing grid in Inspection Management » Inspection Assignment, Add / Edit Inspection Assignment, Assigned Inspections tab. This enables users to build and select a Layout that includes the fields they need to reference in order to select appropriate inspection needs when creating or editing an assignment.
<u>BRMSD-11835</u>	Settings » General Configuration » Asset Types, disable Data Type field for saved records. This prevents user from changing a field with existing data in database to a field type that does not support that existing data.
N/A	API, expose endpoints for Element Classifications, Categories, Materials, Types, and Links

BrM 7.2.1 Release Bug Fixes

BRMSD Ticket	Bug Description
<u>BRMSD-11612</u>	Asset Listing pages, Highway field values not displaying in table grid Layouts for Oracle database
<u>BRMSD-11898</u>	Page Builder, Field Grid control cells have varying heights depending on field type in cell
<u>BRMSD-12100</u>	Application of Benefit Groups to element condition states is not applied to appropriate condition state
<u>BRMSD-12683</u> , <u>BRMSD-12705</u>	Cross Sections, Chart UI label issues
<u>BRMSD-12716</u>	Filters SQL, table grid failing to load records when filter SQL includes line breaks
<u>BRMSD-12998</u>	Optimization, statewide optimization failing due to inventory size
<u>BRMSD-13027</u>	Advanced Formulas, formulas including expressions of less, less_equal, greater, greater_equal failing when called
<u>BRMSD-13041</u> , <u>BRMSD-13173</u>	Asset Types, Default Value of /PREVIOUS/ not being respected when creating new inspection event
<u>BRMSD-12964</u>	Assign Projects, page spinning
<u>BRMSD-13156</u>	Help links to Document360 not working
N/A	SNBI Export, not using Inspection Data Update Date for B.IE.10 value
N/A	Scheduled Task for Inspection Assignment Generation Task failing
N/A	Report Generation, Insp1 report not showing inspection event options when argument of 'Select Inspection' is selected
N/A	Inspection Assignment, Add Inspection, table fails to load records when filtering by Due Date column
N/A	Project List, Create Program Project modal does not display Program Scenarios in drop down
N/A	Inspection Schedule control intermittently not loading records

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BrM 7.2.2 Release Bug Fixes

BRMSD Ticket	Bug Description
BRMSD-11717	Filters aren't working like they should in 7.1? Or as I think they did in 7.0.3
BRMSD-12375	How to Correctly Create Parameterized Scheduled Task
BRMSD-12423	7.1.3 - Bridge list filter do not persist
BRMSD-12424	BrM 7.1.3 - Deleting inspection from Condition page redirects to unauthorized screen
BRMSD-12464	BrM 7.1 Validate Summary File Bridge ID Sort Order Not Numeric
BRMSD-12468	BrM 7.1 Duplicate Inspection Ticket - Additional Multimedia Issue Because Inspection Letters Not Displayed (e.g. TYGH)
BRMSD-12595	Release Update Scripts Resetting Field Level Page Builder Security
BRMSD-12663	User permissions getting overwritten by patch
BRMSD-12719	BrM 7.1.5 Role Permissions Reset from BrM 7.1
BRMSD-12817	Condition projection chart on executive summary has the wrong unit for sf deck area
BRMSD-12991	Review Back to Cancelled Reviewer
BRMSD-12997	Executive Summary Condition by Deck Area Chart way off
BRMSD-13206	Features screen not using configured screen after hitting cancel
BRMSD-13220	Michigan Fix 6
BRMSD-13138	Copying programs led to errors about subdivisions not being created
BRMSD-13149	Errors on Scheduling Task and Reports
BRMSD-13189	Critical - Inspection Assignment Page Just Spinning
BRMSD-13311	Load Posting Status Page Issues

BrM 7.2.2 Release Enhancements

- Page Builder control usability enhancements
 - Ratings
 - Element Condition Grid
- Agency-defined bridge validations
- SNBI differential submittal
- Asynchronous report generation
- Quick navigate tool
- Qualifications scheduled task
- Enhanced mapping field aliases
- SNBI Errata 2 changes
- AssetWise data import
- SNBI data import

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Ratings control usability enhancements

- Inline editing (no more 'Add New' / 'Edit' modals)
 - 'Add New' adds new first row to table and puts focus in that field
- Keyboard navigation between fields (CTRL + arrow keys)

Ratings										
Search										+ Add New
Vehicle (B.EP.01)*	Rating Fac...*	Tons	Analysis Type	Limit State	Location	Description	Defaul...	Invent...	Operat...	Contro...
HS-20 Operating	1	36.00	0 Design			Lorem ipsum dolor sit amet, consectetur adipisci...	☒	☐	☐	☐
HS-20 Inventory	1	36.00	0 Design				☒	☐	☐	☐
HL-93 Operating	1	36.00	0 Design				☒	☐	☐	☐
HL-93 Inventory	1	36.00	0 Design				☒	☐	☐	☐
AASHTO Type 3	1	25.00	1 Legal				☒	☐	☐	☐

Ratings control usability enhancements

- Link from save validation error to applicable field

AASHTOWare™
Bridge Management



[Bridges](#) > [Load Ratings](#) > [Load Ratings](#)



Bridge ID ⓘ
007001

Load Rating Date (B.LR.03) ⓘ
6/2/2026

Feature Intersected ⓘ

Facility Carried ⓘ

Edit Bridge Load Rating

Validation Messages 1

 [AASHTO Type 3S2: Rating Factor is required](#)

Event Name * ⓘ

Load Rating Date (B.LR.03) * ⓘ

☒ Report This Event ⓘ

Load Rater ⓘ

Reviewer ⓘ

Ratings control usability enhancements

- New configurability:
 - Set table grid column names
 - Set table grid columns order
 - Hide non-required table columns

Ratings										
Search										+ Add New
Vehicle (B.EP.01)*	Rating Fac...*	Tons	Analysis Type	Limit State	Location	Description	Invent...	Operat...	Contro...	Defaul...
HS-20 Operating	1	36.00	0 Design			Lorem ipsum dolor sit amet, consectetur adipisci...	☐	☐	☐	☒
HS-20 Inventory	1	36.00	0 Design				☐	☐	☐	☒
HL-93 Operating	1	36.00	0 Design				☐	☐	☐	☒
HL-93 Inventory	1	36.00	0 Design				☐	☐	☐	☒
AASHTO Type 3	1	25.00	1 Legal				☐	☐	☐	☒

Ratings control usability enhancements

- New configurability:
 - Condensed grid option

Ratings											
Search											+ Add New
Vehicle (B.EP.01)*	Rating Fac...*	Tons	Analysis Type	Limit State	Location	Description	Invent...	Operat...	Contro...	Defaul...	
HS-20 Operating	1	36.00	0 Design			Lorem ipsum dolor sit amet, consectetur adipisci...	☐	☐	☐	☒	
HS-20 Inventory	1	36.00	0 Design				☐	☐	☐	☒	
HL-93 Operating	1	36.00	0 Design				☐	☐	☐	☒	
HL-93 Inventory	1	36.00	0 Design				☐	☐	☐	☒	
AASHTO Type 3	1	25.00	1 Legal				☐	☐	☐	☒	
AASHTO Type 3S2	1	36.00	1 Legal				☐	☐	☐	☒	

Element Condition Grid control usability enhancements

- Inline editing (no more 'Add New' / 'Edit' modals)

Element Conditions

Quantity/Percentage

Quantity

Structure Unit

All

Environment

All

Q

Search

Select All

Expand All

+ Add New

Inspected*	ID	Name*	Structure Unit	Type	Environment	Total Quantity*	Units	CS 1 Qty*	CS 2 Qty*	CS 3 Qty*	CS 4 Qty*	Description
☐	15	Pre Concrete Top Flange	2	Element	Moderate	120	sq.ft	32	12	32	44	test
☐	31	> Timber Deck	1	Element	Severe	15000	sq.ft	14480	100	320	100	kdhfkdsfjzlkdsjflkdsfji
☐	54	Timber Slab	3	Element	Moderate	200	sq.ft	140	10	25	25	test
☐	65	Other Slab	1	Element		20	sq.ft	20	0	0	0	
☐	105	> Re Clsd Box Girder	1	Element	Benign	2000	ft	2000	0	0	0	
☐	109	Pre Opn Conc Girder/Beam	1	Element		500	ft	500	0	0	0	

Element Condition Grid control usability enhancements

- Link from save validation error to applicable field

AASHTOWare™
Bridge Management

Bridges > Inspection > Condition

Bridge ID *

007001

Inspection *

08/07/2026 (CQHO)

Feature Intersected

Facility Carried

Condition

Validation Messages 2

⚠ Element 241 Re Conc Culvert: Total Quantity must be greater than or equal to 0.001

⚠ Element 241 Re Conc Culvert: Child Condition State 1 Quantity sum must be less than or equal to the parent Condition State 1 Quantity

Condition Ratings

Deck Condition Rating (B.C.01)

8 Very Good

8

Superstructure Condition Rating (B.C.02)

8 Very Good

8

Substructure Condition Rating (B.C.03)

Culvert Condition Rating (B.C.04)

Element Condition Grid control usability enhancements

- New configurability:
 - Set table grid column names
 - Set table grid columns order
 - Hide non-required table columns if not used by agency

Element Conditions

Quantity/Percentage

Structure Unit

Environment

Quantity

All

All

Q

Search

Select All

Expand All

+

Add New

Inspected*	ID	Name*	Structure Unit	Type	Environment	Total Quantity*	Units	CS 1 Qty*	CS 2 Qty*	CS 3 Qty*	
☒	241	Re Conc Culvert	1	Element	Benign	900	ft	892	8	0	
	510	Wearing Surfaces	1	Protective System / Wearing Surface	Benign	500	sq.ft	0	500	0	
	1080	Delamination/Spall/Patched Area	1	Defect	Benign	8	ft	0	8	0	

Element Condition Grid control usability enhancements

- Option to auto calculate element CS2, CS3, CS4 quantities based on child defect quantities

Element Condition Grid

Quantity/Percentage

Structure Unit

Environment

Quantity

All

All

Q

Search

Select All

Expand All

Add New

Inspected*	ID	Name*	Structure Unit	Type	Environment	Total Quantity*	Units	CS 1 Qty*	CS 2 Qty*	CS 3 Qty*	
☒	241	Re Conc Culvert	1	Element	Benign	900	ft	892	8	0	
	510	> Wearing Surfaces	1	Protective System / Wearing Surface	Benign	500	sq.ft	492	8	0	
	1080	Delamination/Spall/Patched Area	1	Defect	Benign	8	ft	0	8	0	
	1090	Exposed Rebar	1	Defect	Benign	3	ft	3	0	0	
	1120	Efflorescence/Rust Staining	1	Defect	Benign	16	ft	16	0	0	

Element Condition Grid control usability enhancements

- Compact grid to display more data onscreen at once

Element Condition Grid

Quantity/Percentage

Quantity

Structure Unit

All

Environment

All

Q

Search

Select All

Expand All

Add New

Inspected*	ID	Name*	Structure Unit	Type	Environment	Total Quantity*	Units	CS 1 Qty*	CS 2 Qty*	CS 3 Qty*	CS 4 Qty*	Description	
☐	15	Pre Concrete Top Flange	2	Element	Moderate	120	sq.ft	32	12	32	44	test	
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☐	54	Timber Slab	3	Element	Moderate	200	sq.ft	140	10	25	25	test	
☐	65	Other Slab	1	Element		20	sq.ft	20	0	0	0		
☐	105	> Re Clsd Box Girder	1	Element	Benign	2000	ft	2000	0	0	0		
☐	109	Pre Opn Conc Girder/Beam	1	Element		500	ft	500	0	0	0		

Element Condition Grid control usability enhancements

- Click into 'Description' to see full value or configure to be full row

Element Condition Grid

Quantity/Percentage

Quantity

Structure Unit

All

Environment

All

Q

Search

Select All

Expand All

Add New

Inspected*	ID	Name*	Structure Unit	Type	Environment	Total Quantity*	Units	CS 1 Qty*	CS 2 Qty*	CS 3 Qty*	CS 4 Qty*	Description
☒	15	Pre Concrete Top Flange	2	Element	Moderate	120	sq.ft	32	12	32	44	Lorem ipsum dolor
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Validation Configuration

- New page to manage validations used on Bridges » Validate
- By default, includes all current FHWA validations

Validation Rules

Standard rules implement the FHWA SNBI Data Validation Rules v1.1 (published 12/30/2025).

Filter

Severity

Active

All

Q

Search

Collapse All

Add New

Appraisal (16)

Name	Error Message	Target	Severity	Standard	Validate on Bridges	Validate
BAP01 - Do Not Report	Do not report BAP01 Approach Roadway Alignmer	Bridge	Flag	True	☒	
BAP01-1	BAP01 Approach Roadway Alignment must be a va	Bridge	Error	True	☒	
BAP02 - Do Not Report	Do not report BAP02 Overtopping Likelihood for n	Bridge	Flag	True	☒	
BAP02 - Required When Waterway	BAP02 Overtopping Likelihood must be reported fr	Bridge	Error	True	☒	

Validation Configuration

- Page functionality:
 - Exclude or override FHWA validations
 - Create agency-specific validations
 - Update FHWA validations without new release of BrM (script)

Creating Validations

- Enter rules via rule builder UI or raw expressions
 - Rule builder provides drop down fields to create rule
 - Raw expression provides text box to build rule from scratch

Rule Builder

☐ Raw expression

Category *
Bridge

Field *

Valid Condition *

Error Message *

Rule Preview

Precondition

Add Precondition

Add Advanced Precondition

No preconditions — this rule always applies.

Rule Builder

☒ Raw expression

Category *
Bridge

Rule *

Precondition (optional)

Once saved, a validation using raw expression cannot be edited.

Error Message *

Creating Validations

- Both methods allow an optional precondition
 - The rule itself is not checked unless precondition is met
- Advanced Preconditions to support FHWA validations such as:
 - Is the lead state
 - Is a border bridge
 - Is a culvert
 - Carries an NHS highway
 - Has a waterway or relief feature

Validations

- New check box on Bridges » Validate to include or exclude non-reportable bridges
- Last updated information

AASHTOWare™ Bridge Management

< Back

Bridges

Bridge List

Inventory & Appraisal

Inspection

Load Ratings

Work Events

Validate

Bridge Dashboard

Enhanced Mapping

Bridges » Validate

Validate

Bridges are validated against the FHWA SNBI Data Validation Rules v1.1 (published 12/30/2025).

Assets

Filter: None Layout: Bridge List

☐ Include bridges not reported to FHWA

☐ BridgeID ↑↓	Highway Agency District (B.L.04) ↑↓	County Code (B.L.02) ↑↓	Owner (B.CL.01) ↑↓	Maintenance Responsibility (B.CL.02) ↑↓
☐ 00110			S01 State transportation department	S01 State transportation department
☐ 007001			S01 State transportation department	S01 State transportation department
☐ 10710			S01 State transportation department	S01 State transportation department

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Records Selected:

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SNBI Submittal – Finalized JSON

- New page to store finalized submittal JSON file for each year
- Used for differential export in subsequent years

Submittals > Finalized SNBI Submittals

Finalized SNBI Submittals

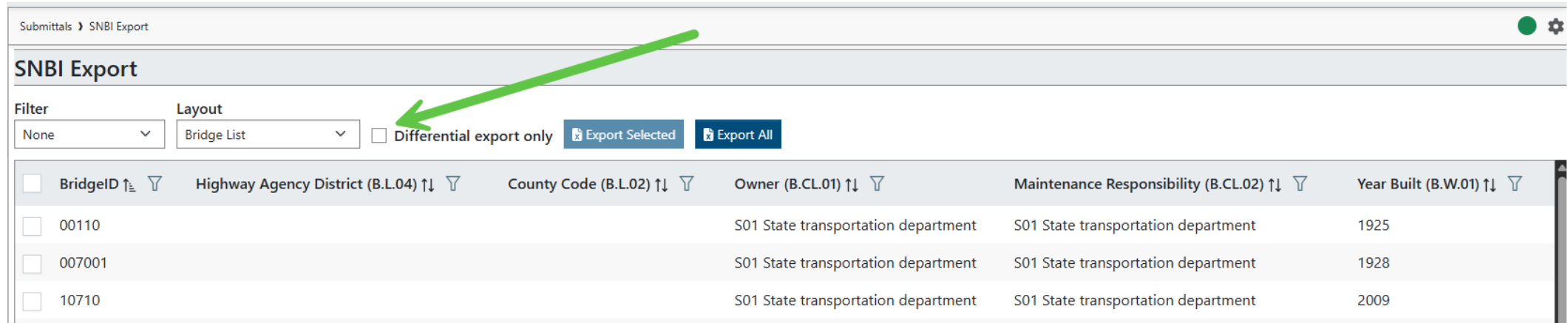
Export Add New

Year ↓	Description ↑↓	File Name ↑↓	Uploaded ↑↓	Uploaded By ↑↓	
2026		SNBI_Export_20260624.json	08/03/2026, 03:59:05 PM	User, Pontis	

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SNBI Submittal – Differential Only

- Options for full export or differential export only
- Differential export includes list of records with key field changes that need to be communicated to FHWA



The screenshot shows the 'SNBI Export' interface. At the top, there's a breadcrumb 'Submittals > SNBI Export'. Below it, the title 'SNBI Export' is displayed. Under the title, there are two dropdown menus: 'Filter' (set to 'None') and 'Layout' (set to 'Bridge List'). To the right of these is a checkbox labeled 'Differential export only', which is checked. A green arrow points to this checkbox. To the right of the checkbox are two buttons: 'Export Selected' and 'Export All'. Below the controls is a table with columns: 'BridgeID', 'Highway Agency District (B.L.04)', 'County Code (B.L.02)', 'Owner (B.CL.01)', 'Maintenance Responsibility (B.CL.02)', and 'Year Built (B.W.01)'. The table contains three rows of data.

BridgeID	Highway Agency District (B.L.04)	County Code (B.L.02)	Owner (B.CL.01)	Maintenance Responsibility (B.CL.02)	Year Built (B.W.01)
00110			S01 State transportation department	S01 State transportation department	1925
007001			S01 State transportation department	S01 State transportation department	1928
10710			S01 State transportation department	S01 State transportation department	2009

	A	B	C	D
1	Change Type	BL01	BID01	BP502
2	Removed	1	BRM-9199 2a	20250806
3	Removed	1	BRM-9199 5a	20250806

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Asynchronous Report Generation

- Reports are added to queue and can be retrieved once completed

Reports > Generate

Generate

Asset Type
Bridge

Assets Reports **Output**

Once a report has been downloaded, it is no longer listed below.

Search

Delete

☐	Report ↑↓	Status ↑↓	Queued ↓↑	Started ↑↓	Finished ↑↓	
☐	Users Report (Config 6)	Complete	07/28/2026, 10:27:48 AM	07/28/2026, 10:27:48 AM	07/28/2026, 10:27:52 AM	Download

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Quick Navigate Tool

- Type in page name to navigate to that page

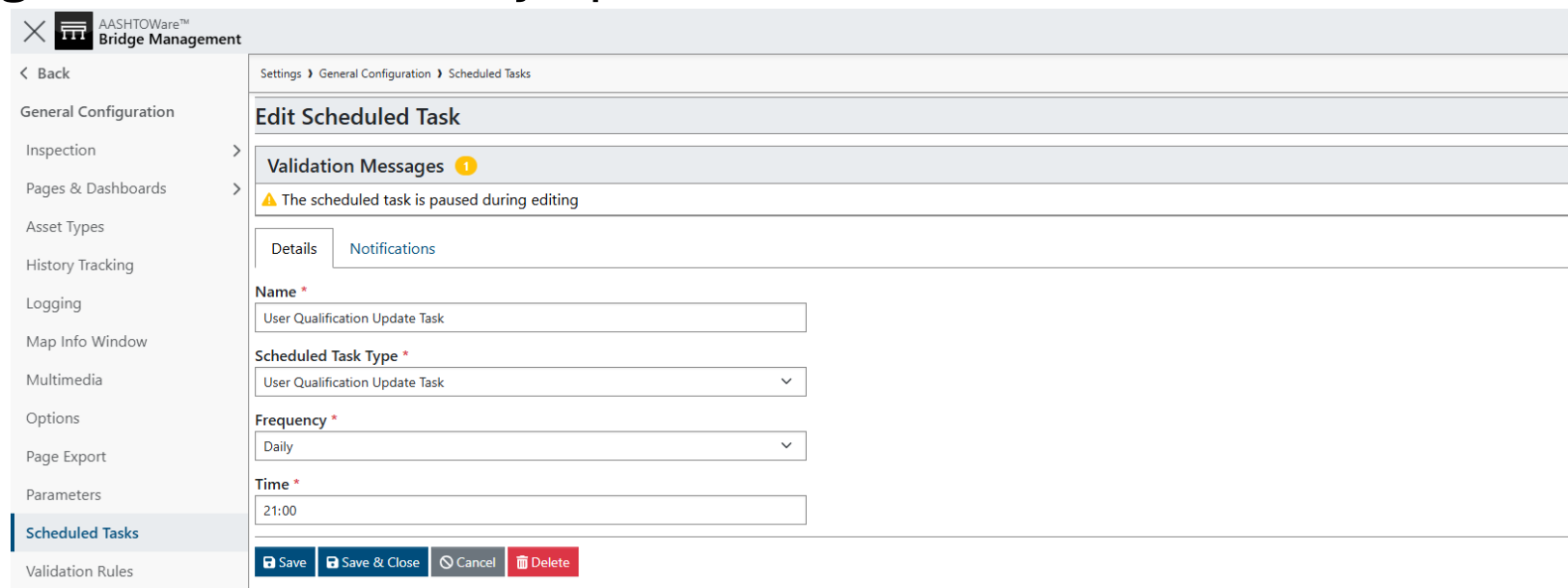
The screenshot displays the AASHTOWare Bridge Management web application. The top navigation bar includes the application logo, a search icon, and a user profile icon. A green arrow points to the search icon. The left sidebar shows a navigation menu with options: Back, Inventory & Appraisal, Identification (selected), Design, Features, and BRM-9274 test. The main content area shows the 'Identification' section with fields for Bridge ID (007001), Feature Intersected, and Facility Carried. Below this is a 'Details' section with fields for Bridge Number (B.ID.01) (0000000000000700) and Agency Bridge ID (007001). At the bottom, a 'Town Farm Culvert' section contains a search bar with the text 'post', a blue button labeled 'Load Ratings > Load Posting Status', and a dropdown menu for 'Bridge Life Cycle Phase' set to '1 Service'.

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Qualifications Scheduled Task

- Nightly scheduled task to update all qualifications records for all users
 - Supports Experience, which accumulates over time. Qualifications for single users are already updated on event save.



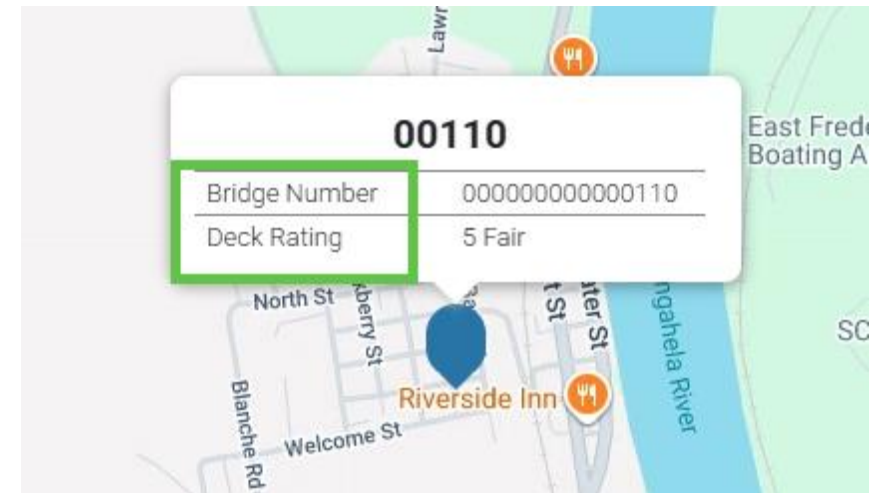
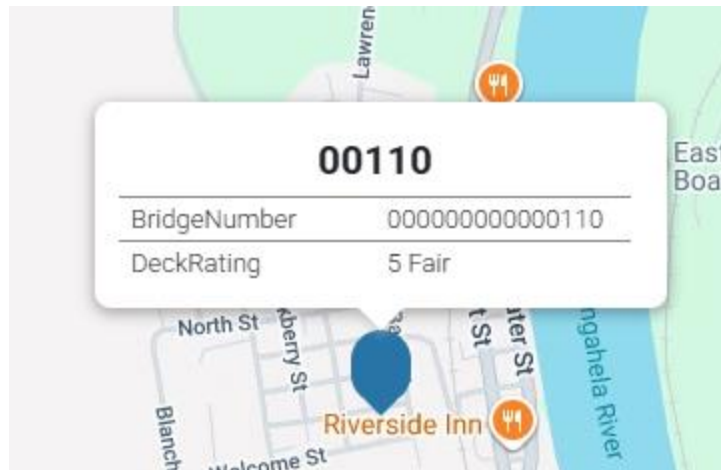
The screenshot displays the 'Edit Scheduled Task' configuration page in the AASHTOWare Bridge Management application. The left sidebar contains a navigation menu with options: Back, General Configuration, Inspection, Pages & Dashboards, Asset Types, History Tracking, Logging, Map Info Window, Multimedia, Options, Page Export, Parameters, **Scheduled Tasks** (highlighted), and Validation Rules. The main content area shows the breadcrumb 'Settings > General Configuration > Scheduled Tasks' and the title 'Edit Scheduled Task'. A 'Validation Messages' section contains a warning: 'The scheduled task is paused during editing'. Below this are two tabs, 'Details' and 'Notifications', with 'Details' selected. The 'Details' tab contains four fields: 'Name' (User Qualification Update Task), 'Scheduled Task Type' (User Qualification Update Task), 'Frequency' (Daily), and 'Time' (21:00). At the bottom, there are four buttons: 'Save', 'Save & Close', 'Cancel', and 'Delete'.

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Enhanced Mapping Field Aliases

- Ability to alias database field names for enhanced mapping



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Errata 2 Changes

- ProMiles and Task Force are reviewing SNBI Errata 2 to identify all updates requiring a coding change in BrM
- Will be included in 7.2.2 release

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