



What's in BrM 6.7



AASHTOWare BrM User Group – September 20, 2023
Boise, ID

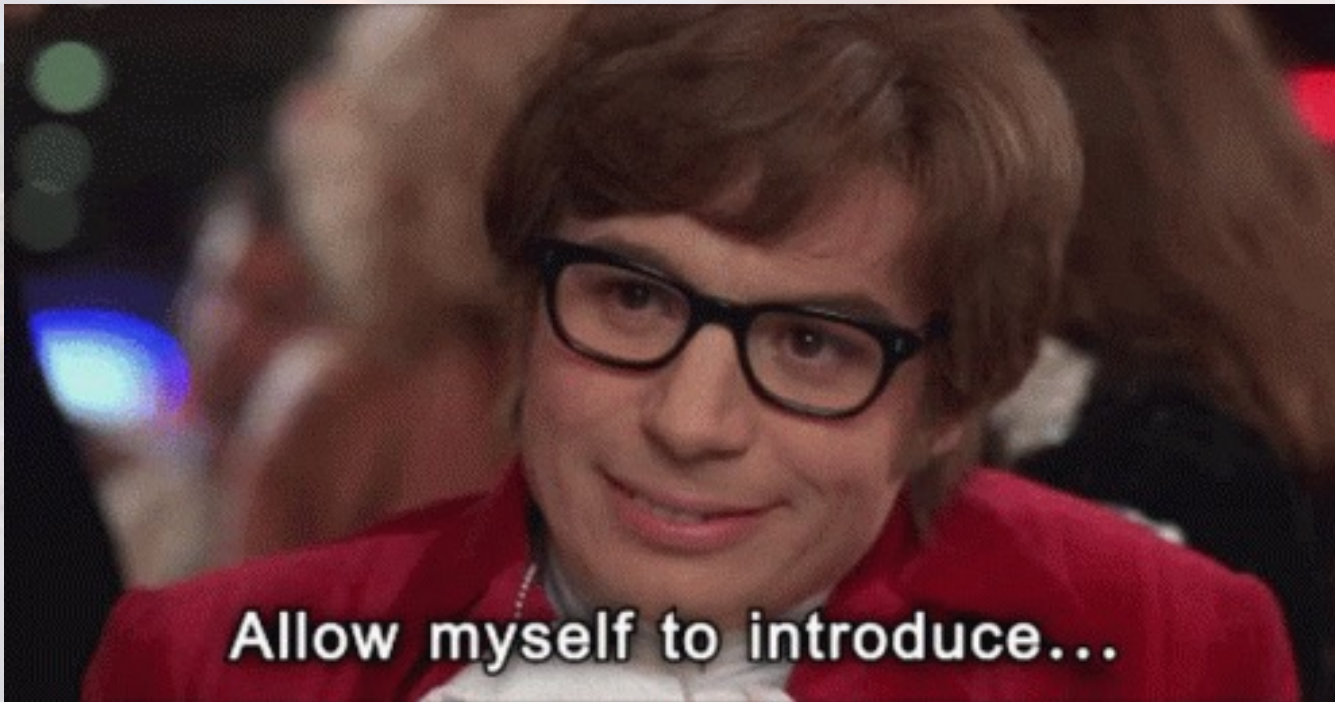




What's in BrM 6.7



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CONTACT



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Jira Service Desk

<http://support.mayvue.com>



Thursday 11:07 AM

Are you coming to BrRMUG
next week?

Thursday 11:07 AM

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Definitely! You're gonna have to give us some good Boise recommendations while we're up there. Is there something I can bring home to the family that's unique to Idaho?

Thursday 11:07 AM

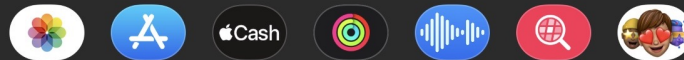
Are you coming to BrRMUG next week?

Definitely! You're gonna have to give us some good Boise recommendations while we're up there. Is there something I can bring home to the family that's unique to Idaho?

Cheap ammo and Covid19.



Text Message



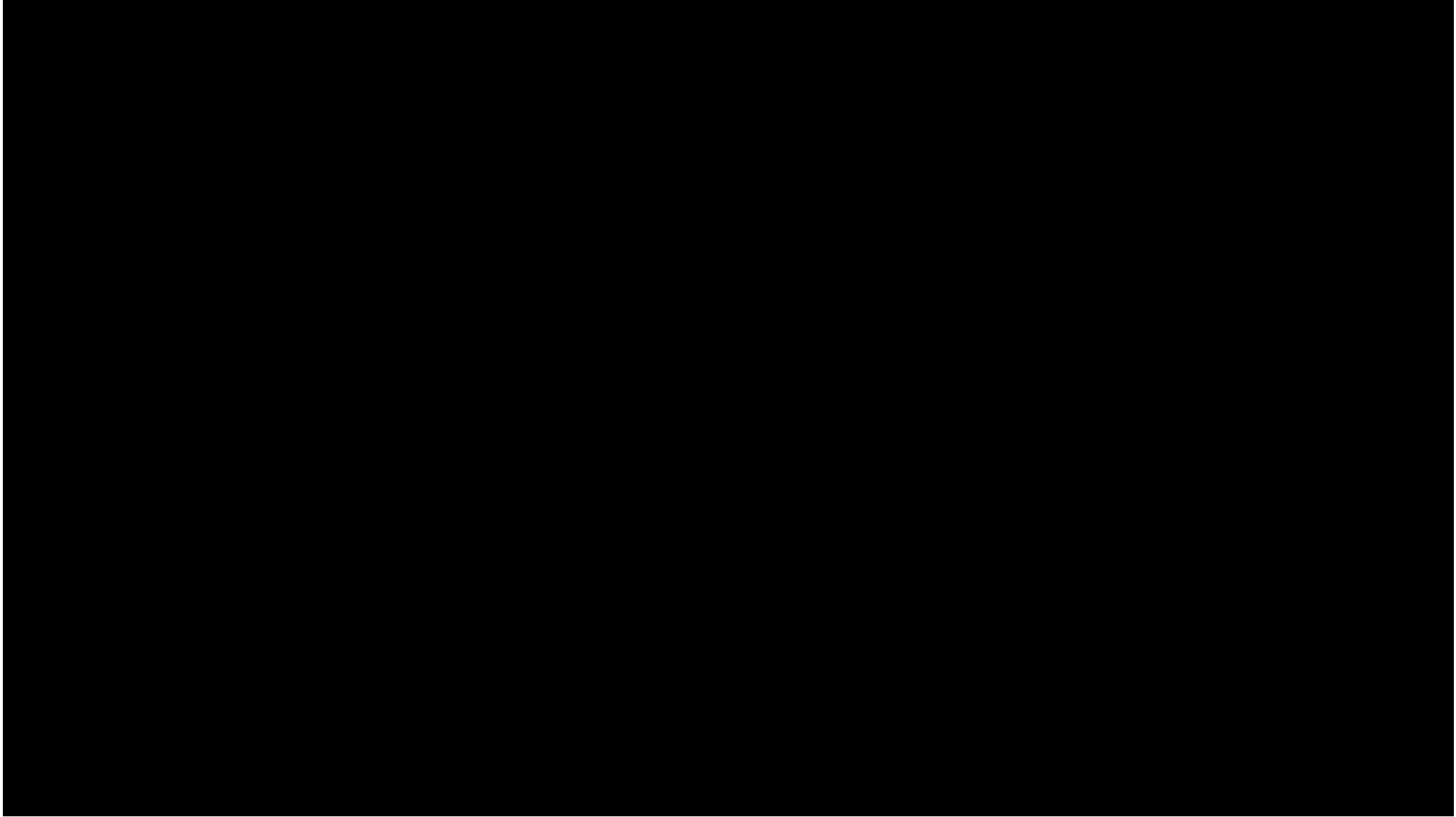


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Boise, ID







What's in BrM 6.7



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ANCILLARY ASSETS

ANCILLARY ASSETS



**Specifications for the
National Tunnel Inventory**



U.S. Department of Transportation
Federal Highway Administration

Publication

NTIS

OTHER ASSETS

ANCILLARY ASSETS



Specifications for the
National Tunnel Inventory



U.S. Department of Transportation
Federal Highway Administration

Publication

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OTHER ASSETS

TUNNELS

SIGNS

WALLS

ANCILLARY ASSETS



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DAMS

TOWERS

SHORELINES

SLOPES

PUMPS

SEAWALLS

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SEAWALLS

ANCILLARY ASSETS

HOW TO ADD NEW ASSETS

STEP 1: ADD ASSET TYPE

ANCILLARY ASSETS

STEP 1: ADD ASSET TYPE

Admin > General Config > Manage Asset Types

Asset Type

Select an Asset Type to edit.

Type:	<input type="text" value="--Select an Asset--"/>	<input type="button" value="Add"/>	<input type="button" value="Delete"/>
Name:	<input type="text" value="--Select an Asset--"/>		
Table Name:	Sign		
Parent Type:	Sign Inspection		
Edit Landing Page:	Tunnel Elements		
RFA Landing Page:	Tunnel Inspections		
Status:	Tunnels		
	<input type="text" value="--Select a Landing Page--"/>		


ANCILLARY ASSETS

STEP 1: ADD ASSET TYPE

Admin > General Config > Manage Asset

Asset Type

Select an Asset Type to edit.

Type:	<input type="text" value="Seawalls"/>	<input type="button" value="Add"/>	<input type="button" value="Delete"/>
Name:	<input type="text" value="Seawalls"/>		
Table Name:	<input type="text" value="SEAWALLS"/>		
Parent Type:	<input type="text" value="--Select an Asset--"/>		
Edit Landing Page:	<input type="text" value="SEAWALLS INVENTORY"/>		
RFA Landing Page:	<input type="text"/>		
Status:	<input checked="" type="radio"/> Valid		

ANCILLARY ASSETS

HOW TO ADD NEW ASSETS

STEP 1: ADD ASSET TYPE

STEP 2: DEFINE FIELDS

ANCILLARY ASSETS

STEP 2: DEFINE FIELDS

Admin > General Config > Manage Asset Types

Asset Type

Select an Asset Type to edit.

Type: Add Delete

Name:

Table Name:

Parent Type:

Edit Landing Page:

RFA Landing Page:

Status: ● Valid ↻

Asset Statuses

Select an Asset Status to edit.

Status: Add Delete

Name:

Order:

Default:

Role Name	Visible
	No Status Selected.

Asset Definition

Asset Components

Add, modify or remove data items that make up an asset type. Every asset type must have one field marked as an 'Identification Column'. This is used to identify new assets when they are created. The 'Identification Column' must be a non-nulla

Field Name	Identification Column	Latitude Column	Longitude Column	Asset Component	Data Type	Width	Decimal Places	Allow Null	Metric/English
ADJACENT ROADWAY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Map	varchar	50		<input checked="" type="checkbox"/>	

ANCILLARY ASSETS

STEP 2: DEFINE FIELDS

Admin > General Config > Manage Asset Types

Asset Type

Select an Asset Type to edit.

Type:

Name:


Table Name:

Parent Type:

Edit Landing Page:

RFA Landing Page:

Classification:

Status: ● Invalid Schema 

Asset Statuses

Select an Asset Status to edit.

Status:

Name:

Order:

Default:

Role Name	Visible	Read Only
No Status Selected.		

Asset Definition Asset Components

Add, modify or remove data items that make up an asset type. Every asset type must have one field marked as an 'Identification Column'. This is used to identify new assets when they are created. The 'Identification Column' must be a non-nullable varchar or nvarchar at least 2 characters wide.

Field Name	Identification Column	Latitude Column	Longitude Column	Asset Component	Data Type	Width	Decimal Places	Allow Null	Metric/English	Field Code	Default Value
BUCKET_TRUCK	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	char	1		<input checked="" type="checkbox"/>			
BUCKET_TRUCK_DAYS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	numeric	5		<input checked="" type="checkbox"/>			
CONDITION_RATING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	varchar	50		<input checked="" type="checkbox"/>			
DAMAGE_DATE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	date	10		<input checked="" type="checkbox"/>			
DAMAGE_INSP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	varchar	50		<input checked="" type="checkbox"/>			
DAMAGE_PERF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	varchar	50		<input checked="" type="checkbox"/>			
DATE_ENTERED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	date	10		<input checked="" type="checkbox"/>			
DATE_ENTERED_BY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	varchar	50		<input checked="" type="checkbox"/>			/USERID/
DAY_LANE_CLOSURE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	varchar	50		<input checked="" type="checkbox"/>			

ANCILLARY ASSETS

STEP 2: DEFINE FIELDS

Asset Definition Asset Components

Add, modify or remove data items that make up an asset type. Every asset type must have one field marked as an 'Identification Column'. This is used to identify new assets when they are created. The 'Identification Column' must be a non-nullable varchar or nvarchar at least 2 characters wide.

Field Name	Identification Column	Latitude Column	Longitude Column	Asset Component	Data Type	Width	Decimal Places	Allow Null	Metric/English	Field Code	Default Value
BUCKET_TRUCK	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	char	1		<input checked="" type="checkbox"/>			
BUCKET_TRUCK_DAYS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	numeric	5		<input checked="" type="checkbox"/>			
CONDITION_RATING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	varchar	50		<input checked="" type="checkbox"/>			
DAMAGE_DATE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	date	10		<input checked="" type="checkbox"/>			
DAMAGE_INSP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	varchar	50		<input checked="" type="checkbox"/>			
DAMAGE_PERF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	varchar	50		<input checked="" type="checkbox"/>			
DATE_ENTERED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	date	10		<input checked="" type="checkbox"/>			
DATE_ENTERED_BY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	varchar	50		<input checked="" type="checkbox"/>			/USERID/
DAY_LANE_CLOSURE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	varchar	50		<input checked="" type="checkbox"/>			
DAY_NUM_CLOSURES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	numeric	5		<input checked="" type="checkbox"/>			
FLAGGER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	varchar	50		<input checked="" type="checkbox"/>			
INSP_BATCH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	varchar	32		<input checked="" type="checkbox"/>			
INSP_ID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	varchar	50		<input checked="" type="checkbox"/>			
INSPDATE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	date	10		<input type="checkbox"/>			
INSPECT_FREQ	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	varchar	50		<input checked="" type="checkbox"/>			
INSPECT_GROUP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	varchar	50		<input checked="" type="checkbox"/>			
INSPECT_NOTES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	varchar	3999		<input checked="" type="checkbox"/>			
INSPECT_TYPE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	varchar	50		<input checked="" type="checkbox"/>			
INSPECTOR1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	varchar	50		<input checked="" type="checkbox"/>			/USERID/
INSPECTOR1_GD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	nvarchar	32		<input checked="" type="checkbox"/>			
INSPECTOR2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	varchar	32		<input checked="" type="checkbox"/>			/USERID/
INSPECTOR2_GD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	varchar	32		<input checked="" type="checkbox"/>			

ANCILLARY ASSETS

HOW TO ADD NEW ASSETS

STEP 1: ADD ASSET TYPE

STEP 2: DEFINE FIELDS

STEP 3: DEFINE ELEMENTS

ANCILLARY ASSETS

STEP 3: DEFINE ELEMENTS

Admin > Ancillary Assets > Asset Element Definitions

Elements

Ancillary Asset Type:

Search

ID	Short Name	FHWA	Prot Sys / Wear Surf	Defect	Active	
100	Start Point	F	F	F	T	
110	Change Point	F	F	F	T	
120	Turn Point	F	F	F	T	
130	End Point	F	F	F	T	
215	Re Conc Wall	F	F	F	T	
216	Timber Wall	F	F	F	T	
217	Masonry Seawall	F	F	F	T	
1000	Corrosion	F	F	T	T	
1010	Cracking	F	F	T	T	
1080	Delamination/Spall/Patched Area	F	F	T	T	
1090	Exposed Rebar	F	F	T	T	
1111	Scaling	F	F	T	T	
1120	Efflorescence/Rust Staining	F	F	T	T	

ANCILLARY ASSETS

STEP 3: DEFINE ELEMENTS

Admin > Ancillary Assets > Asset Element Definitions

Elements Admin > Ancillary Assets > Asset Element Definitions

Edit Element Definition

Element Details

Ancillary Asset Type:	Seawalls		
Rollup Element:	-- Select Rollup element --	* ID:	215
* Short Name:	Re Conc Wall	Long Name:	Reinforced Concrete Wall
* Units:	6 ft :: m [3048]	<input type="checkbox"/> FHWA	
<input type="checkbox"/> Protective System / Wearing Surface		<input type="checkbox"/> Defect	
<input checked="" type="checkbox"/> Active			
Notes:	This element defines reinforced concrete wall. This includes the sheet material retaining the embankment and wing walls, wall extensions, and any other monolithically placed		

Manual

Choose File

Classifications

* Category: Structural	* Material: Reinforced Concrete	* Type: Wall
-------------------------------	--	---------------------

Search

ID

100

110

120

130

215

216

217

1000

1010

1080

1090

1111

1120

Add New



ANCILLARY ASSETS

HOW TO ADD NEW ASSETS

STEP 1: ADD ASSET TYPE

STEP 2: DEFINE FIELDS

STEP 3: DEFINE ELEMENTS

STEP 4: SET ELEMENT-CHILD LINKS

ANCILLARY ASSETS

STEP 4: SET ELEMENT-CHILD LINKS

Admin > Ancillary Assets > Asset Element-Child Linking



Element Details

ID: 215
Short Name: Re Conc Wall

Protective Systems

Select All Unselect All

Defects

Select All Unselect All

- 1000 Corrosion
- 1010 Cracking
- 1080 Delamination/Spall/Patched Area
- 1090 Exposed Rebar
- 1111 Scaling
- 1120 Efflorescence/Rust Staining
- 1170 Split/Delamination (Timber)

ANCILLARY ASSETS

MULTIMEDIA & MAPPING WIDGETS



Seawall [Create](#)

SEAWALLS > SEAWALLS INVENTORY

Location Data

Seawall ID:

Seawall Name:

County:

Municipality:

Latitude:

Longitude:

Owner:

Adjacent Waterway:

Route Data

Route Number:

Adjacent Roadway:

Adjacent Structure:

Urban Code:

SeaWalls Age

Year Built:

Year Rehabilitated:

Structural Information

Wall Type:

Material Main:

Material Footing:

Foundation Type:

Wall Height:

Structural 2

Overall Length:

Sidewalk:

Embankment Height:

Angle of Embankment:

Ground Condition:

Structure Notes

Structure Notes

ANCILLARY ASSETS

Seawall TVR-SAKR-S-003 [Create](#)

SEAW Mapping

Surrounding Assets

Map Satellite

Select Assets

Map features include: eNvy Gymnastics, Longplex Family & Sports Center, Tiverton Public Library, Portsmouth High School, Roger Williams University, Hog Island, and Stafford Pond. Road labels include I-95, I-295, I-24, I-195, I-177, I-81, and local roads like Main Rd, Highland Rd, and Park Ave.

Map controls: Google logo, Keyboard shortcuts, Map data ©2023, Terms of Use, Report a map error.



NBI CONVERSION PROFILES



NBI CONVERSION PROFILES

Admin > Modeling Config > NBI Conversion Profiles

NBI Conversion Profiles

[+ Add New](#)

Name	Default	Resulting GCR	Standard	Active	
BrM Culvert Default	★	Culvert	T	T	
BrM Deck Default	★	Deck	T	T	
BrM Substructure Default	★	Substructure	T	T	
BrM Superstructure Default	★	Superstructure	T	T	
FHWA Culvert Profile		Culvert	T	T	
FHWA Deck Profile		Deck	T	T	
FHWA Substructure Profile		Substructure	T	T	
FHWA Superstructure Profile		Superstructure	T	T	
HDOT Profile - Culvert		Culvert	F	T	
HDOT Profile - Deck		Deck	F	T	
HDOT Profile - Substructure		Substructure	F	T	
HDOT Profile - Superstructure		Superstructure	F	T	
HDOT Profile v220613 Culvert		Culvert	F	F	
HDOT Profile v220613 Deck		Deck	F	F	
HDOT Profile v220613 Sub		Substructure	F	F	

NBI CONVERSION PROFILES

Admin > Modeling Config > NBI Conversion Profiles

Admin > Modeling Config > NBI Conversion Profiles

Edit NBI Conversion Profile

Profile Details

* Name: * Resulting GCR:

Active: Set as Default:

Available Element Categories:

- 1 Missing
- 0 Unspecified
- 1 Superstructure
- 2 Substructure
- 3 Joints
- 4 Bearings
- 5 Other Elements
- 7 Smart Flags
- 8 Culvert
- 9 Wearing Surface



Selected Element Categories:

6 Decks/Slabs

Generic Upper Limits

* Method of CS Average:

NBI	Enabled	CS2 %	CS3 %	CS4 %
9	<input checked="" type="checkbox"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>

NBI CONVERSION PROFILES

Adr

9 Wearing Surface

NBI

Generic Upper Limits

* Method of CS Average:

Element Weighting

NBI	Enabled	CS2 %	CS3 %	CS4 %
9	<input checked="" type="checkbox"/>	1	1	1
8	<input checked="" type="checkbox"/>	5	5	1
7	<input checked="" type="checkbox"/>	20	5	2
6	<input checked="" type="checkbox"/>		8	3
5	<input checked="" type="checkbox"/>		15	5
4	<input checked="" type="checkbox"/>			15
3	<input checked="" type="checkbox"/>			100
2	<input type="checkbox"/>			
1	<input type="checkbox"/>			

Network NBI Distributions

Assigned Bridges

NBI CONVERSION PROFILES

ASSIGN PROFILES TO BRIDGES

Admin > Modeling Config > Assign NBI Conversion Profile

Resulting GCR: Deck Export Assign to All Assign to Selected

Bridge ID	Facility	Resulting GCR:	Deck Profile
<input type="checkbox"/> 001000110300011	HI BLT R	Deck	HDOT Profile - Deck
<input type="checkbox"/> 001000110300056	HI BLT R	Deck	HDOT Profile - Deck
<input type="checkbox"/> 001000110300059	HI BLT R	Deck	HDOT Profile - Deck
<input type="checkbox"/> 001000110300169	HI BLT R	Deck	HDOT Profile - Deck
<input type="checkbox"/> 001000110300242	HI BLT RD PALANI R	Deck	HDOT Profile - Deck
<input type="checkbox"/> 001000110300285	Kuakini Highway	Deck	HDOT Profile - Deck
<input type="checkbox"/> 001000110300286	HI BLT RD PALANI R	Deck	HDOT Profile - Deck
<input type="checkbox"/> 001000110306199	HAWAII BELT RD	Deck	HDOT Profile - Deck
<input type="checkbox"/> 001000110306489	HAWAII BELT RD	Deck	HDOT Profile - Deck
<input type="checkbox"/> 001000110306490	Hawaii Belt Rd.	Deck	HDOT Profile - Deck
<input type="checkbox"/> 001000110306600	HAWAII BELT RD	Deck	HDOT Profile - Deck
<input type="checkbox"/> 001000110306601	Hawaii Belt Rd.	Deck	HDOT Profile - Deck
<input type="checkbox"/> 001000110306805	HAWAII BELT RD	Deck	HDOT Profile - Deck

Assign NBI Conversion Profile to All

Resulting GCR:
Deck

* NBI Conversion Profile:

-
- BrM Deck Default
- FHWA Deck Profile
- HDOT Profile - Deck
- HDOT Profile v220623 Deck

NBI CONVERSION PROFILES

SIMILAR TO GCR DETERIORATION PROFILES



NAME
THAT
TASK FORCE MEMBER





DC
**BLACK
ADAM**

ONLY IN THEATERS
OCTOBER 21





DC
BLAZER
AD
A glowing yellow lightning bolt is positioned to the right of the text.

ONLY IN THEATERS
OCTOBER 21









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NBI CONVERSION PROFILES

ASSIGN ELEMENT CATEGORIES TO PROFILES

Admin > Modeling Config > NBI Conversion Profiles

Edit NBI Conversion Profile

Profile Details

* Name:

* Resulting GCR:

Active:

Set as Default:

Available Element Categories:

- 1 Missing
- 0 Unspecified
- 2 Substructure
- 3 Joints
- 4 Bearings
- 5 Other Elements
- 7 Smart Flags
- 8 Culvert
- 9 Wearing Surface

Selected Element Categories:

- 1 Superstructure
- 6 Decks/Slabs



NBI CONVERSION PROFILES

Inspection > Condition

Condition Ratings

Deck (058):	Inspector Ratings: 6 Satisfactory	NBI Converted Rating: 5	Channel (061):	Inspector Ratings: 6 Bank Slumping	NBI Converted Rating: N	Assigned NBI Conversion Profiles: Deck: HDOT Profile - Deck Superstructure: BrM Superstructure Default Substructure: BrM Substructure Default Culvert: BrM Culvert Default
Superstructure (059):	Inspector Ratings: 5 Fair	6	Culvert (062):	Inspector Ratings: N N/A (NBI)	N	
Substructure (060):	Inspector Ratings: 5 Fair	4	Waterway (071):	Inspector Ratings: 8 Equal Desirable		
			Unrepaired Spalls:	0.000	sq.ft	

Buttons:

Element Conditions

Hide Elem Inspection Details Arrow Key Grid Navigation Help

Element: Struct. Unit.: Env.: Quantity Percent

Elem.	Str. Unit.	Env.	Element Description	Tot. Qty.	Units	Qty1	Qty2	Qty3	Qty4			
▶ 31	0	Ben./low (1)	Timber Deck	<input type="text" value="1007"/>	sq.ft	907.000	<input type="text" value="0"/>	<input type="text" value="100"/>	<input type="text" value="0"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
▶ 111	0	Ben./low (1)	Timber Open Girder	<input type="text" value="418"/>	ft	393.000	<input type="text" value="0"/>	<input type="text" value="25"/>	<input type="text" value="0"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
▶ 206	0	Ben./low (1)	Timber Column	<input type="text" value="5"/>	each	3.000	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="0"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
▶ 217	0	Ben./low (1)	Masonry Abutment	<input type="text" value="52"/>	ft	28.000	<input type="text" value="0"/>	<input type="text" value="24"/>	<input type="text" value="0"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
▶ 235	0	Ben./low (1)	Timber Pier Cap	<input type="text" value="27"/>	ft	17.000	<input type="text" value="6"/>	<input type="text" value="4"/>	<input type="text" value="0"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
▶ 301	0	Ben./low (1)	Pourable Joint Seal	<input type="text" value="48"/>	ft	38.000	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="10"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
▶ 332	0	Ben./low (1)	Timb Bridge Railing	<input type="text" value="76"/>	ft	72.000	<input type="text" value="4"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



NBI CONVERSION PROFILES

Inspection > Condition

Condition Ratings

Inspector Ratings:	NBI Converted Rating:
Deck (058): 6 Satisfactory	5
Superstructure (059): 5 Fair	6
Substructure (060): 5 Fair	4

Validate Calculate SR

Assigned NBI Conversion Profiles:

Deck:	HDOT Profile - Deck
Superstructure:	BrM Superstructure Default
Substructure:	BrM Substructure Default
Culvert:	BrM Culvert Default

Calculate NBI

Element Conditions

Hide Elem Inspection Details

Element: Elem # or Elem Desc Struct. Unit.: All

Elem.	Str. Unit.	Env.	Element De
31	0	Ben./low (1)	Timber Deck
111	0	Ben./low (1)	Timber Open
206	0	Ben./low (1)	Timber Colum
217	0	Ben./low (1)	Masonry Abu
235	0	Ben./low (1)	Timber Pier
301	0	Ben./low (1)	Pourable Joi
332	0	Ben./low (1)	Timb Bridge Railing

NBI Rating Calculation

Deck NBI Converter Profile: BrM Deck Default

Superstructure NBI Converter Profile: FHWA Superstructure Pro

Substructure NBI Converter Profile: FHWA Substructure Profil

Culvert NBI Converter Profile: BrM Culvert Default

Conversion results

NBI Component	Original	Converter
<input type="checkbox"/> Deck	6	6
<input type="checkbox"/> Superstructure	5	5
<input type="checkbox"/> Substructure	5	4

Accept Cancel



BULK UTILITY PAGE

HOW TO CALCULATE BULK UTILITY

STEP 1: SELECT BRIDGES

BULK UTILITY PAGE

STEP 1: SELECT BRIDGES

Bridges > View List ?

Filter: NHS Bridges (TAMP) Layout: Default Jump to Bridge:

Bridge ID	District	Bridge Name	County	Facility Carried	Feature Intersected	Own	Maint	Built
<input checked="" type="checkbox"/>	10 Hawaii	KEALAKAHA STREAM	Hawaii	HI BELT ROAD	KEALAKAHA STREAM	State Highway Agency	State Highway Agency	2010
<input checked="" type="checkbox"/>	10 Hawaii	KAHOLO STRM	Hawaii	HAWAII BELT RD	KAHOLO STRM	State Highway Agency	State Highway Agency	1935
<input checked="" type="checkbox"/>	10 Hawaii	KUPAPALUA STRM	Hawaii	HAWAII BELT RD	KUPAPALUA STRM	State Highway Agency	State Highway Agency	1935
<input checked="" type="checkbox"/>	10 Hawaii	KEAKEALANI, SUB DIV.RD	Hawaii	QUEEN KAAHUMANU	KEAKEALANI, SUB DIV.RD	State Highway Agency	State Highway Agency	1993
<input checked="" type="checkbox"/>	10 Hawaii	KAULA STRM	Hawaii	HAWAII BELT RD	KAULA STRM	State Highway Agency	State Highway Agency	1959
<input checked="" type="checkbox"/>	10 Hawaii	KILAU STRM	Hawaii	HAWAII BELT RD	KILAU STRM	State Highway Agency	State Highway Agency	1953
<input checked="" type="checkbox"/>	10 Hawaii	MANOWAIOPAE STRM	Hawaii	HAWAII BELT RD	MANOWAIOPAE STRM	State Highway Agency	State Highway Agency	1957
<input checked="" type="checkbox"/>	10 Hawaii	KUWAIKAHI STRM	Hawaii	HAWAII BELT RD	KUWAIKAHI STRM	State Highway Agency	State Highway Agency	1957
<input checked="" type="checkbox"/>	10 Hawaii	KIHALANI STRM	Hawaii	HAWAII BELT RD	KIHALANI STRM	State Highway Agency	State Highway Agency	1956
<input checked="" type="checkbox"/>	10 Hawaii	KAIWILAHILAH STRM	Hawaii	HAWAII BELT RD	KAIWILAHILAH STRM	State Highway Agency	State Highway Agency	1956
<input checked="" type="checkbox"/>	10 Hawaii	MOANALULU STRM	Hawaii	HAWAII BELT RD	MOANALULU STRM	State Highway Agency	State Highway Agency	1956
<input checked="" type="checkbox"/>	10 Hawaii	KAALUU STRM	Hawaii	HAWAII BELT RD	KAALUU STRM	State Highway Agency	State Highway Agency	1933
<input checked="" type="checkbox"/>	10 Hawaii	KAPEHU STRM	Hawaii	HAWAII BELT RD	KAPEHU STRM	State Highway Agency	State Highway Agency	1951
<input checked="" type="checkbox"/>	10 Hawaii	MAULUA STRM	Hawaii	HAWAII BELT RD	MAULUA STRM	State Highway Agency	State Highway Agency	1953
<input checked="" type="checkbox"/>	10 Hawaii	POHAKUPUKA STRM	Hawaii	HAWAII BELT RD	POHAKUPUKA STRM	State Highway Agency	State Highway Agency	1953
<input checked="" type="checkbox"/>	10 Hawaii	AHOLE STRM	Hawaii	HAWAII BELT RD	AHOLE STRM	State Highway Agency	State Highway Agency	1934
<input checked="" type="checkbox"/>	10 Hawaii	MANOLOA STRM	Hawaii	HAWAII BELT RD	MANOLOA STRM	State Highway Agency	State Highway Agency	1951
<input checked="" type="checkbox"/>	10 Hawaii	NINOLE STRM	Hawaii	HAWAII BELT RD	NINOLE STRM	State Highway Agency	State Highway Agency	1951
<input checked="" type="checkbox"/>	10 Hawaii	WAIKOLU STRM	Hawaii	HAWAII BELT RD	WAIKOLU STRM	State Highway Agency	State Highway Agency	1934
<input checked="" type="checkbox"/>	10 Hawaii	WAIKAUMALO STRM	Hawaii	HAWAII BELT RD	WAIKAUMALO STRM	State Highway Agency	State Highway Agency	1952

BULK UTILITY PAGE

HOW TO CALCULATE BULK UTILITY

STEP 1: SELECT BRIDGES

STEP 2: SELECT WEIGHT PROFILE

BULK UTILITY PAGE

STEP 2: SELECT WEIGHT PROFILE

Analysis > Bulk Utility



Bulk Utility

* Utility Weight Profile:

- Utility Tree
- Utility Tree
- Condition (70/30)
- Condition Only
- Condition v1
- Condition v2
- Condition v3
- Deck/Slab Element Health
- HDOT Optimizer Profile
- HDOT Weight Profile
- NBI only
- Sample

Calculate

Export

Bridge ID	Utility Value	Health Index
001000110300011	72.84	55.00%
001000110300056	90.48	78.41%
001000110300059	96.65	100.00%
001000110300169	95.76	96.40%
001000110300242	84.96	59.10%
001000110300285	73.34	40.00%
001000110300286	79.50	40.00%
001000110306490	93.56	99.88%
001000110306601	93.12	99.59%
001000110411925	94.16	92.86%
001000190300831	77.41	48.20%
001000190301371	73.76	36.30%

BULK UTILITY PAGE

HOW TO CALCULATE BULK UTILITY

STEP 1: SELECT BRIDGES

STEP 2: SELECT WEIGHT PROFILE

STEP 3: CLICK CALCULATE

BULK UTILITY PAGE

STEP 3: CLICK CALCULATE

Analysis > Bulk Utility

Bulk Utility

* Utility Weight Profile:

 Calculate  Export

Bridge ID ↕	Utility Value	Health Index
001000190302111	89.56	83.88%
001000190302173	81.98	63.70%
001000190302653	69.51	35.83%
001000190302754	70.42	37.05%
001000190302795	69.06	35.23%
001000190302911	77.36	67.01%
001000190305585	89.83	88.10%
001000190305755	48.10	10.25%
001000190305863	92.21	91.45%
001000190306021	92.66	92.48%
001000190306165	92.12	94.63%
001000190306280	82.17	72.71%

BULK UTILITY PAGE

1	BRIDGE_ID	UTILITYVALUE	HEALTHINDEX
2	001000190305755	48.1	10.25%
3	003000830300869	49.1	19.27%
4	003090001400038	54.57	29.81%
5	001000190308146	56.89	30.81%
6	003000930300832	59.97	37.54%
7	003000830302412	60.32	45.81%
8	001000190308410	62.28	36.29%
9	00300C301100152	63.89	31.65%
10	00300C291100137	65.85	56.81%
11	003000930301279	66.03	42.69%
12	003000830301851	66.12	42.00%



BRIDGE AGE



BRIDGE AGE

THE OLD WAY (aka THE WORKAROUND)

Admin > Modeling Config > Network Policies

AND

Type Column Value

Table bridge Column yearbuilt

Must Be Less Than or Equal To

Type Number Value

Number Value 1975

Remove Condition

AND

Type Column Value In Param Set

Table inspevnt Column suprating Value Is In Set

- Unknown (NBI)
- 0 Failed
- 1 Imminent Failure
- 2 Critical
- 3 Serious
- 4 Poor
- 5 Fair

Remove Condition

BRIDGE AGE

THE OLD WAY (aka THE WORKAROUND)

Admin > Modeling Config > Network Policies

AND

Type Column Value

Table bridge

Column yearbuilt

Must Be Less Than or Equal To

AND

Type Column Value In Param Set

Table inspevnt

Column suprating

Value Is In

Set

Unknown (NBI)

0 Failed

1 or more Failures

BRIDGE AGE

Admin > Modeling Config > Benefit Groups

Benefit Groups

[Add New Group](#)

Name	Description	Linked Actions	Active	Sort Order
YEAR			Yes	
NDOT Year Built to 2023		20YR - Replace, 20YR - Culv Replace	Yes	10

[Expand Group Details](#) [Collapse Group Details](#)

- ▶ Child Benefit Groups (0)
- ▶ Changed Elements (0)
- ▶ Removed Elements (0)
- ▶ Replaced Elements (0)
- ▶ Created Protective Systems (0)
- ▼ Fields (1)
- ▶ Risks (0)

Table Name	Column Name	New Value	Increment
bridge	yearbuilt	2023	

BRIDGE AGE

Admin > Modeling Config > Action Defs

ID	Action Name	Benefit Group	Element	Count	Enabled	Visible	Cost	Unit	Network	Checked	Deleted
26		SMC-Other	SMC-Other	26	<input type="checkbox"/>	<input type="checkbox"/>			SMC-Struct	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
100	20YR - Replace	20 Year Needs		100	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	\$		Network	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
101	20YR - Rehab	20 Year Needs		101	<input checked="" type="checkbox"/>	<input type="checkbox"/>			Network	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
102	20YR - Redeck	20 Year Needs		102	<input checked="" type="checkbox"/>	<input type="checkbox"/>			Network	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
103	20YR - Repair	20 Year Needs		103	<input checked="" type="checkbox"/>	<input type="checkbox"/>			Network	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
104	20YR - Culv Replace	20 Year Needs		104	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			Network	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
105	20YR - Repair Slab	20 Year Needs		105	<input checked="" type="checkbox"/>	<input type="checkbox"/>			Network	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
106	20YR - Redeck Slab	20 Year Needs		106	<input checked="" type="checkbox"/>	<input type="checkbox"/>			Network	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
107	20YR - Culv Repair	20 Year Needs		107	<input checked="" type="checkbox"/>	<input type="checkbox"/>			Network	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
999	BRIP MGNT NO ACT	BRIP MGNT NO ACT	No action - use in place	999	<input checked="" type="checkbox"/>	<input type="checkbox"/>			Network	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
999	Paint Sub - Network	First Painting	Example	999	<input checked="" type="checkbox"/>	<input type="checkbox"/>			Network	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
999	Paint Super - Network	First Painting	Example	999	<input checked="" type="checkbox"/>	<input type="checkbox"/>			Network	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
999	Place Wearing Surface - Network	First Wearing Surface	Example	999	<input checked="" type="checkbox"/>	<input type="checkbox"/>			Network	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

First Previous 1 2 3 4 5 6 7 8 9 10 Next Last

Associated Benefit Groups for Action 20YR - Replace

Benefit Groups	Checked
Please Select	<input type="checkbox"/>
Deck = 9	<input checked="" type="checkbox"/>
NDOT - Apply AC Overlay w/ mem 9512	<input checked="" type="checkbox"/>
NDOT - Replace Approach Slabs	<input checked="" type="checkbox"/>
NDOT - Replace Bearings	<input checked="" type="checkbox"/>
NDOT - Replace Deck	<input checked="" type="checkbox"/>
NDOT - Replace Joints	<input checked="" type="checkbox"/>
NDOT - Replace Railings	<input checked="" type="checkbox"/>
NDOT - Replace Slabs	<input checked="" type="checkbox"/>
NDOT - Replace Sub	<input checked="" type="checkbox"/>
NDOT - Replace Super	<input checked="" type="checkbox"/>
NDOT Year Built to 2023	<input checked="" type="checkbox"/>
Sub = 9	<input checked="" type="checkbox"/>
Super = 9	<input checked="" type="checkbox"/>

Overriding Direct Cost (overrides unit-costs) -

Enabled	Field Name	Cost Per Unit	Unit
<input checked="" type="checkbox"/>	Deck Area	\$ 250	sq.ft

Unit Costs -

ID	Element Name	Separated	Cost Per Unit	Unit	?	Deleted
12	Re Concrete Deck (Replace)		\$	sq.ft	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
13	Pre Concrete Deck (Replace)		\$	sq.ft	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
15	Pre Concrete Top Flange (Replace)		\$	sq.ft	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
16	Re Conc Top Flange (Replace)		\$	sq.ft	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Admin > Modeling

Benefit Groups

YEAR
 NDOT Year Built to

Expand Group Details

Child Benefit

Changed Elen

Removed Eler

Replaced Eler

Created Prote

Fields (1)

Risks (0)

Add New Group

Order

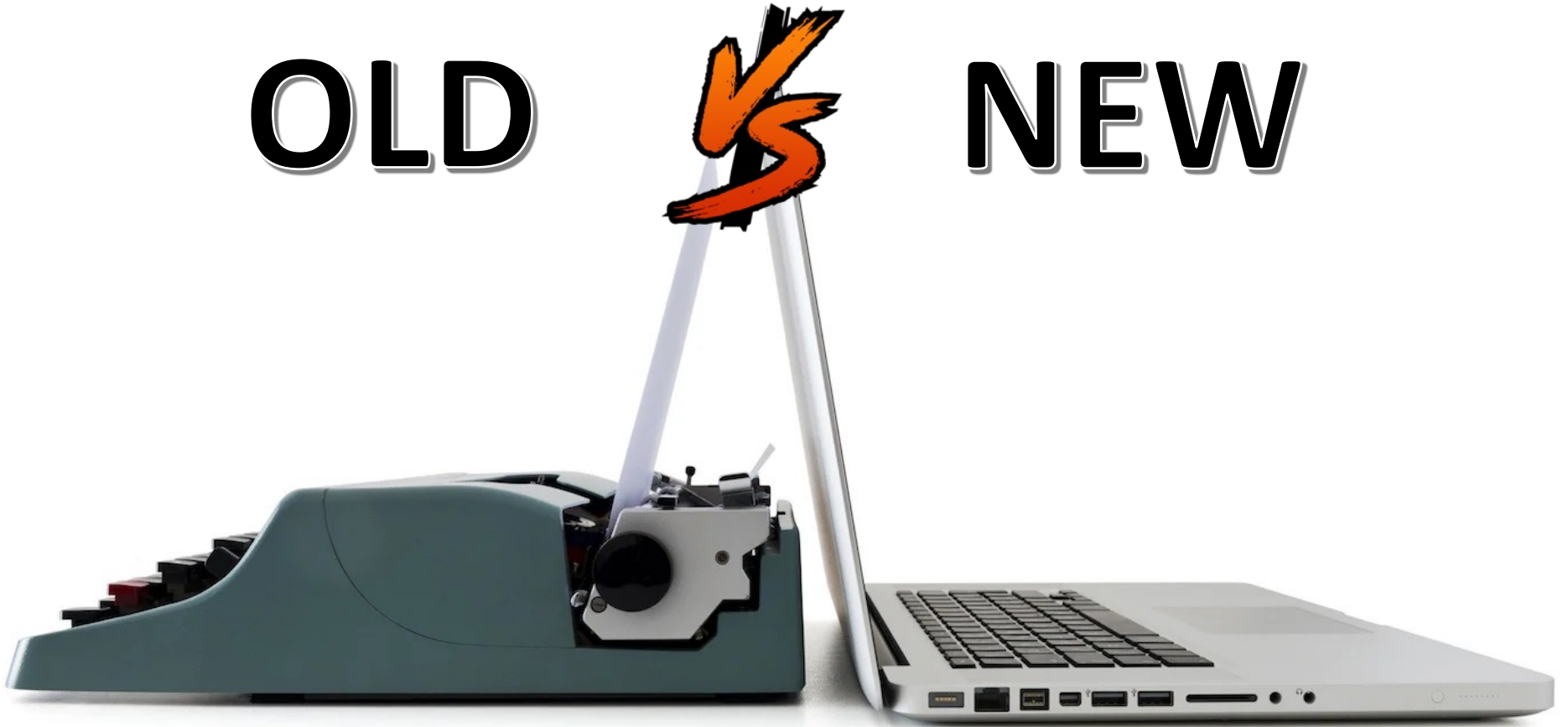
ment



OLD



NEW







Microsoft[®]



ebay



ebay

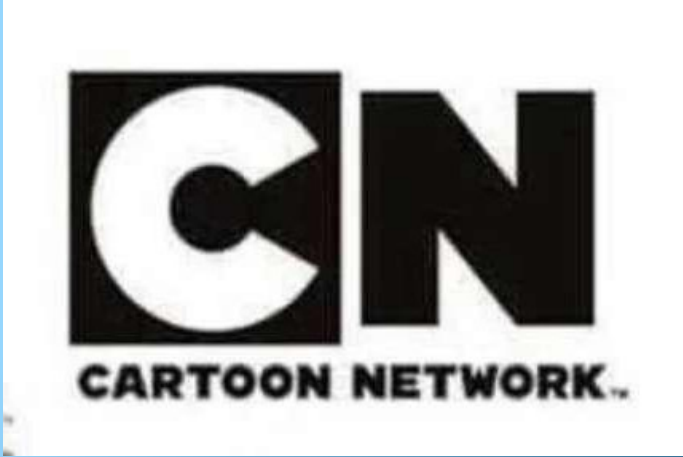






in the box





BRIDGE AGE

THE NEW WAY (THIS IS THE WAY )

Admin > Modeling Config > Network Policies

Type: Column Value In Param Set

Table: inspevnt | Column: dkrating | Value Is: In | Set: Unknown (NBI) 0 Failed 1 Imminent failure 2 Critical 3 Serious 4 Poor 5 Fair

[Remove Condition](#)

AND

Type: Bridge Age | Must Be: Less Than or Equal To | Number Value: 1

[Remove Condition](#)

Follow-up: [Bridge Age](#)

Select an action [Add Action](#)

**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.



BRIDGE AGE

THE NEW WAY (THIS IS THE WAY )

AND ▾

Type ▾

Bridge

Must Be ▾

Follow-up

Select an action ▾

****Indicates an action is no longer a network level action. These actions can be changed, selected, or deleted.**



BRIDGE AGE

THE NEW WAY (THIS IS THE WAY )

Admin > Modeling Config > Network Policies

AND


Type **Bridge Age**

Bridge Age

Must Be Greater Than or Equal To

Type Number Value

Number Value 50

 Remove Condition



What's Coming in BrM 6.7.1





TIME IN STATE RESET



TIME IN STATE RESET

Admin > Modeling Config > Benefit Groups

Create New Benefit Group

Name	Description	Linked Actions	Active	Sort Order
Culvert NBI to 7			<input checked="" type="checkbox"/>	

[Expand Group Details](#) [Collapse Group Details](#)

- ▶ Child Benefit Groups (0)
- ▶ Changed Elements (0)
- ▶ Removed Elements (0)
- ▶ Replaced Elements (0)
- ▶ Created Protective Systems (0)

▼ Fields (1)

Table Name	Column Name	New Value	Increment	
<input type="text" value="Please Select"/>	<input type="text" value="Please Select a Table"/>	<input type="text"/>	<input type="text"/>	Add New Field
inspevnt	culvrating	<u>7</u>		<input checked="" type="checkbox"/>

▶ Risks (0)

TIME IN STATE RESET

Admin > Modeling Config > Network Policies

Network Policy Editor

Network Policy: Repair Culvert

+ Create New

Copy

Network Policy Details

Network Policy Name: Repair Culvert

Project Category: Preservation Work

Inactive:

Actions

Repair Culvert

Details

Action: Repair Culvert

Action Conditional Rule

Summary

(Column 'culvrating' of Table 'inspevnt' Is In Set '6 Deterioration, 7 Minor Deterioration')

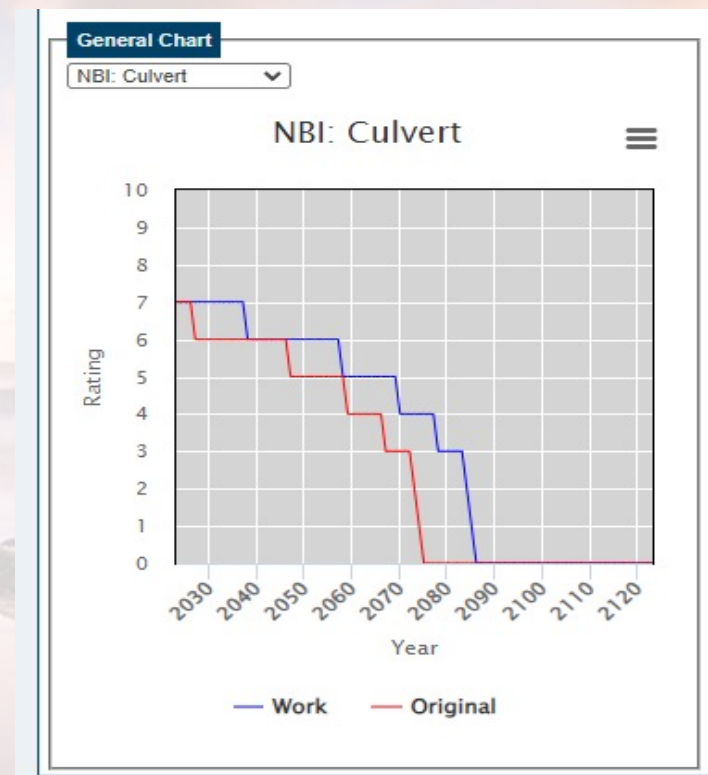
Rule Builder

TIME IN STATE RESET

The screenshot displays the 'Action Conditional Rule' configuration interface. On the left, a sidebar contains an 'Actions' tab with a 'Repair Culvert' button. The main 'Details' section shows the 'Action' dropdown set to 'Repair Culvert'. Below this is the 'Action Conditional Rule' section, which includes a 'Summary' box containing the text: '(Column 'culvrating' of Table 'inspevnt' Is In Set '6 Deterioration, 7 Minor Deterioration')'. The 'Rule Builder' section features a 'Type' dropdown set to 'Column Value In Param Set'. Below this, a configuration row shows 'Table' as 'inspevnt', 'Column' as 'culvrating', 'Value Is' as 'In', and 'Set' as a dropdown menu. The 'Set' dropdown is open, showing a list of options: '4 Considerable Damage', '5 Moderate Damage', '6 Deterioration' (checked), '7 Minor Deterioration' (checked), '8 No Major Problem', '9 No Deficiency', and 'N N/A (NBI)'. At the top right of the Rule Builder, there are 'Add Condition' and 'Add Group' buttons.

TIME IN STATE RESET

**ANALYSIS PAGE
GRAPH SHOWING
TIME IN STATE RESET
FOR CULVERT REPAIR**





ADDITIONAL FEATURES



ADDITIONAL FEATURES

- **Import/Export for Dashboards**
- **Security Enhancements for the API**
- **Bug fixes**



ADDITIONAL FEATURES

And so much MORE



ADDITIONAL FEATURES

And so much MORE

AASHTOWare BrM 6.7 Release Notes

Key Features and Enhancements

- Ancillary Assets

In BrM 6.7, the ancillary assets module enables agencies to create various transportation infrastructure asset types (e.g. retaining walls, dams, signs, etc.). With this module, agencies can define the fields and elements necessary to conduct inspections as well as collect inspection data and associated multimedia.

NOTE: The annual BrM SuperSite license support is limited to bridges, tunnels, dams, and structural roadway appurtenances and does not cover other asset types (e.g. office buildings, pavement, etc.).

- Added a new task—*Ancillaries > Ancillary Asset List*—for viewing and managing a complete list of the ancillary assets in the system.
- Moved the permissions for ancillary assets to a new task: *Admin > Security > Ancillary Asset Permissions*.

QUESTIONS





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