



BrM 5.2.3 Training

Future of BrM

This Year

- BrM 5.2.3
 - Programs
 - Optimization
 - Scenario Explorer
- [Tunnels Module](#)

Highly Likely BrM 2017

- [Load Rating Module](#)
- Update Script Improvements
- [Cross Sections](#)

Potential Task Force Ideas

- Mobile Inspection Platform
- 3D Inspection
- New Multimedia process
- [Clearances](#)

Potential Crowdfunding

- [QC / QA Process](#)
- [Scheduled Task Process](#)
- [Sync Process](#)
- Tunnels Multimedia
- Tunnels Work Candidates

Tunnel Module

To be released with 5.2.3 or shortly thereafter

Tunnel: Tunnel Name (I.2): Squirrel Hill Tunnel

Tunnels > Tunnel Inventory

Location Data

Tunnel Number (I.1): 123455432112345

Tunnel Name (I.2): Squirrel Hill Tunnel

Place Code (I.5): 12345 - Middle City

County Code (I.4): 1 - Nowhere Co.

State Code (I.3): 1 - Alabama

Highway Agency District (I.6): 04 - Region 4

Tunnel Portal's Latitude (I.13): 25.45515278

Tunnel Portal's Longitude (I.14): 110.45515278

Owner (C.1): 01 - State Highway Agency

Operator (C.2): 01 - State Highway Agency

Urban Code (C.8): 04033 - Auburn, AL

Geometry & Restriction Data

Number of Bores (S.1): 1

Tunnel Shape (S.2): 1 - Oval

Portal Shape (S.3): 2 - Horseshoe

Ground Conditions (S.4): 3 - Mixed Face

Complex (S.5): 0 - Not Complex

Tunnel Length (G.1): 5,103 feet

Minimum Vert Clearance (G.2): 16.5 feet

Roadway Width, C to C (G.3): 24.0 feet

Left Sidewalk Width (G.4): 3.5 feet

Right Sidewalk Width (G.5): 1.5 feet

Height Restriction (L.10): 0 - No

Under Navigable Waterway (N.1): 1 - Navigable Waterway

Navigable Waterway Clearance (N.2): 50.63 feet

Border Tunnel

State or Country Code (I.15): CA - Canada

Financial Responsibility (I.16): 55 %

Border Number (I.17): Go Canadad 1

Inspection Responsibility (I.18): 1 - Shared

Tunnel Age

Year Built (A.1): 1967

Year Rehabilitated (A.2): 2010

Route Data

Route Number (I.7): 35

Facility Carried (I.10): Interstate 35 At Nowhere

LRS Route ID (I.11): 00035

LRS Milepost (I.12): 130.334

Route Direction (I.8): 3 - South

Direction of Traffic (C.3): 1 - One-way Traffic

Total Number of Lanes (A.3): 4

AADT (A.4): 15,600

ADTT (A.5): 1,100

Year of AADT (A.6): 2009

Detour Length (A.7): 121 miles

Load Rating

Load Rating Method (L.1): 3 - LRFR

Inventory Load Rating (L.2): 1.15

Operating Load Rating (L.3): 1.25

Posting Load - Gross (L.5): 15 Tons

Posting Load - Axle (L.6): 2 Tons per Axle

Posting Load - Type 3 (L.7): 8 Tons

Posting Load - Type 3S2 (L.8): 12 Tons

Posting Load - Type 3-3 (L.9): 16 Tons

Route Classification

Route Type (I.9): 1 - Interstate Highway

Service in Tunnel (A.8): 1 - Highway

Toll (C.4): 0 - No Tolls

NHS Designation (C.5): 1 - Route is on the NHS

STRAHNET Designation (C.6): 1 - Route is STRAHNET Route

Functional Classification (C.7): 1 - Interstate

Structure Units

Key	Structure Unit Name	Default	Active
1	NB Bore	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	SB Bore	<input type="checkbox"/>	<input checked="" type="checkbox"/>

[Add Structure Unit](#)

Tunnel Notes



Tunnel: Tunnel Name (I.2): Squirrel Hill Tunnel Inspection: Type: Routine

Tunnels > Tunnel Inspection

First Routine Inspection

Routine Inspection Target Date (D.1): 11/05/1999

Summary

Inspection Date: 11/05/2009

Inspector: 62 - Dan Adams

Types of Inspection Performed

- Routine
- In Depth
- Damage
- Special
- Mechanical
- Electrical
- Fire Suppression

Inspection Schedule

Scheduled	Inspector	Current Date	Frequency
Routine Inspection:	62 - Dan Adams (D.2)	11/05/2009	(D.3) 24 Months
In-Depth Inspection (D.4): <input type="checkbox"/>		11/05/2009	24 Months
Damage:		4/21/2008	
Special Inspection (D.6): <input type="checkbox"/>	Type: Collision	4/21/2008	
Mechanical:	Jon Bishoff	11/05/2009	48 Months
Electrical:			
Fire Suppression:	Thad Piskerton	11/20/2009	24 Months

Damage inspection performed since last reported inspection (D.5): 0 - Not Performed

General Inspection Data

Tunnel Load Posting Status (L.4): A - Open, Not Posted

Hazardous Material Restriction (L.11): 0 - No

Other Restrictions (L.12): 0 - No

Tunnel or Portal Island Protection from Navigation (N.3): 0 - Not Required

Inspection Notes

These notes would be at the inspection level. Maybe including something like the members of the team, the fact that it was a three day inspection and so on.

Element Conditions

- All Structure Units - Quantity Percent

SNTI Tunnel Elements [Add Defect](#) [Add Proactive System](#) [Add New Element](#) [Edit Element](#)

Elem	Str. Unit	Description	Quantity	Units	Qty. 1	Qty. 2	Qty. 3	Qty. 4
10001	1	Clp Concrete Tunnel Liner	25,757.05	(SQFT)	25,500	25.05	50	0.000
10030	1	Cracking	25,757.05	(SQFT)	25,550		25	
10951	1	Conc Corrosion Protective	25,757.05	(SQFT)	25,757			
10031	1	Conc. Cross-Passageway	45	(LF)	44	1		
10051	1	Concrete Portal	75	(SQFT)	75			
10650	1	Fire Detection System	2	(Each)	2			

Element notes for concrete Cross-Passageway would go down here. The inspectors can type away happily and leave small paragraphs about the condition, but the text will wrap and they will be so happy.



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Load Rating Planned to be included in BrM 2017

PONWEB-2234

Bridge: Facility Carried (007): 25TH AVENUE Metric English

Load Rating ?

Current & Reported Ratings

New Load Rating Needed:

Reported Rating

Open / Posted / Closed (041):

Design Load (031):

Posting (070):

Load Rating Reports

Rating Event: Create New Load Rating

Rating Date:

Load Rater:

Software Used: Secondary Software:

Rating Event Notes:

Vehicle	Item 64	Item 66	Rating	Tons	Date	Method 63/65
HL-93 Operating	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1.345		4/25/2016	8 - LRFR
HL-93 Inventory	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1.038		4/25/2016	8 - LRFR
HS-20 Operating	<input type="checkbox"/>	<input type="checkbox"/>	0.732		3/16/2016	6 - LFR
HS-20 Inventory	<input type="checkbox"/>	<input type="checkbox"/>	1.222		3/16/2016	6 - LFR
Type 3	<input type="checkbox"/>	<input type="checkbox"/>	2.072		4/25/2016	8 - LRFR
Type 3-3	<input type="checkbox"/>	<input type="checkbox"/>	1.740		4/25/2016	8 - LRFR
Type 3-3a	<input type="checkbox"/>	<input type="checkbox"/>	1.738		4/25/2016	8 - LRFR
SHV 4	<input type="checkbox"/>	<input type="checkbox"/>	2.067		4/25/2016	8 - LRFR
SHV 5	<input type="checkbox"/>	<input type="checkbox"/>	1.843		4/25/2016	8 - LRFR
SHV 6	<input type="checkbox"/>	<input type="checkbox"/>	1.654		4/25/2016	8 - LRFR
SHV 7	<input type="checkbox"/>	<input type="checkbox"/>	1.519		4/25/2016	8 - LRFR

Vehicle	Current	Rating	Tons	Method	Analysis Type	Failure Type	Location	Notes
▶ HL-93 Operating	<input checked="" type="checkbox"/>	1.345		8 - LRFR	Design	Service III - Crack	S2 - G1 154.25'	
▶ HL-93 Inventory	<input checked="" type="checkbox"/>	1.038		8 - LRFR	Design	Strength I - Flexure	S2 - G1 154.25'	
▶ HS-20 Operating	<input type="checkbox"/>							
▶ HS-20 Inventory	<input type="checkbox"/>							
▶ Type 3	<input checked="" type="checkbox"/>	2.072		8 - LRFR	Legal	Service II - Yield	S1 - G6 75.25'	
▶ Type 3-3	<input checked="" type="checkbox"/>	1.740		8 - LRFR	Legal	Service II - Yield	S1 - G6 75.25'	
▶ Type 3-3a	<input checked="" type="checkbox"/>	1.738		8 - LRFR	Legal	Service II - Yield	S1 - G6 75.25'	
▶ SHV 4	<input checked="" type="checkbox"/>	2.067		8 - LRFR	Permit	Strength I - Shear	S2 - G1 154.25'	
▶ SHV 5	<input checked="" type="checkbox"/>	1.843		8 - LRFR	Permit	Service III - Crack	S2 - G1 154.25'	
▶ SHV 6	<input checked="" type="checkbox"/>	1.654		8 - LRFR	Permit	Service III - Crack	S2 - G1 154.25'	
▼ SHV 7	<input checked="" type="checkbox"/>	1.519		8 - LRFR	Permit	Service III - Crack	S2 - G1 154.25'	
4/15/2016 - LARS		1.221		8 - LRFR	Permit	Service III - Crack	S2 - G1 154.25'	
12/2/2012 - Load Testing		0.955		4 - Load Test	Permit	Service III - Crack	S2 - G1 154.25'	

Cross Sections
Highly likely to
be included in
BrM 2017

PONWEB-1565

Menu | **Bridges** | **Reports** | **Admin** | **Inspection** | **Gateway** | **Analysis**

Condition
 Appraisal
 Inventory
 Schedule
 Work
 Multimedia
 Assessments
 UDOT Old Bridge Notes
 Clearance
 Cross Section

Bridge: Facility Carried: (007): SR-17 Inspection: Type: Regular NBIS

Cross Section Baseline

Bank 1:

Bank 2:

Control Point: 0.0

Road 1:

Road 2:

Bottom of Beam:

Top of Water: 33.8

Cross Section Save Btn

Location - Measures

Notes	Station	Measures
1: NE end of Parapet	1: 0.00	1: 3.1
2:	2: 10.00	2: 3.2
3:	3: 20.00	3: 8.6
4: Opening	4: 28.00	4: 11.9
5:	5: 30.00	5: 12.9
6:	6: 40.00	6: 18.4
7: Top of embankment	7: 50.00	7: 30.4
8:	8: 60.00	8: 33.6
9:	9: 70.00	9: 33.5
10:	10: 80.00	10: 34.6
11:	11: 90.00	11: 33.5
12:	12: 100.00	12: 32.6
13: Bottom of Embankm	13: 110.00	13: 28.6
14:	14: 120.00	14: 19.5
15:	15: 130.00	15: 13.7
16:	16: 140.00	16: 12.1
17: Opening	17: 146.00	17: 11.2
18:	18: 150.00	18: 8.2
19:	19: 160.00	19: 2.9
20: End of Parapet	20: 170.00	20: 2.5
21:	21:	21:
22:	22:	22:
23:	23:	23:
24:	24:	24:
25:	25:	25:
26:	26:	26:
27:	27:	27:
28:	28:	28:
29:	29:	29:
30:	30:	30:

Footing Data

Abutment Type	Station	Depth
1: Abut, Spread F	1: 28.00	1: 68.00
2: Abut, Spread F	2: 146.00	2: 68.00
3: N/A	3:	3:
4: N/A	4:	4:
5: N/A	5:	5:
6: N/A	6:	6:
7: N/A	7:	7:
8: N/A	8:	8:
9: N/A	9:	9:
10: N/A	10:	10:

Clearances

Potential idea
the Task Force is
considering for
BrM 2017

PONWEB-1564

Bridge: 1C 700 Facility Carried: (007): RP.I215NB TO I80WB

Measure1		Measure2		Clearance Measures		Type		Lane No		Direction	
1:	21.46	1:	21.81	1:	Edge of Pavem			1:		1:	N
2:	21.46	2:	21.81	2:	Thru			2:	1	2:	-
3:	21.44	3:	22.07	3:	Inside Edge of			3:		3:	N
4:	21.44	4:	22.07	4:	Edge of Pavem			4:		4:	N
5:		5:		5:	N/A			5:		5:	N
6:	16.67	6:	17.81	6:	Edge of Pavem			6:		6:	N
7:	16.96	7:	18.16	7:	Thru			7:	3	7:	-
8:		8:		8:	Thru			8:	2	8:	-
9:		9:		9:	Thru			9:	1	9:	-
10:	18.13	10:	19.40	10:	Inside Edge of			10:		10:	N
11:	18.42	11:	19.80	11:	Edge of Pavem			11:		11:	N
12:	19.15	12:	20.42	12:	Edge of Pavem			12:		12:	N
13:	19.53	13:	20.58	13:	Inside Edge of			13:		13:	N
14:		14:		14:	Thru			14:	1	14:	+
15:		15:		15:	Thru			15:	2	15:	+
16:	20.42	16:	21.58	16:	Thru			16:	3	16:	+
17:		17:	21.66	17:	Edge of Pavem			17:		17:	N
18:		18:		18:	N/A			18:		18:	N
19:		19:		19:	N/A			19:		19:	N
20:		20:		20:	N/A			20:		20:	N
21:		21:		21:	N/A			21:		21:	N
22:		22:		22:	N/A			20:		22:	N
23:		23:		23:	N/A			23:		23:	N
24:		24:		24:	N/A			24:		24:	N
25:		25:		25:	N/A			25:		25:	N
26:		26:		26:	N/A			26:		26:	N
27:		27:		27:	N/A			27:		27:	N
28:		28:		28:	N/A			28:		28:	N
29:		29:		29:	N/A			29:		29:	N
30:		30:		30:	N/A			30:		30:	N

UDOT Data

Overhead Measures

Negative	Positive
Direction: N/A	Direction: NBL
Lane of Min: 0	Lane of Min: 1

Under Measures

Negative	Positive
Direction: SBL	Direction: NBL
Lane of Min: 3	Lane of Min: 1

Clearance Signs

Negative	Positive
Placed: No	Placed: No
Correct: N/A	Correct: N/A
Legible: N/A	Legible: N/A
Standard: N/A	Standard: N/A
Apprch Rqrd: N/A	Apprch Reqd: N/A
Legend: None	Legend: None

Other Clearance Data

Notes:

Pave Type Under: Asphalt

Save Save & Close Cancel

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QC > Review ?

Show Changed Only
 Show Unapproved Only
 Show Unapproved Only
 Show Unapproved Only

Field	Previous	Current	Origination	QC	QA
By:	Dale Debenham	Dan Adams	Dan Adams	Zac Boyle	
Date Last Returned:	4/16/2014	4/21/2016	-	5/10/2016	
Date last Submitted:	4/16/2014	4/21/2016	4/21/2016	-	
Bridge ID	1C 700	1C 700	✓ X ?	✓ X ?	
Structure Name	I-80NB Ramp Over I-215 WB	I-80NB Ramp Over I-215 WB	✓ X ?	✓ X ?	
▼ Structure Unit 1					
▼ 12 - Concrete Re Deck (Env 4)					
CS1	10,816 (78%)	10,215 (75%)	✓ X ?	✓ X ?	
CS2	10,816 (78%)	10,215 (75%)	✓ X ?	✓ X ?	
CS3	10,816 (78%)	10,215 (75%)	✓ X ?	✓ X ?	
CS4	10,816 (78%)	10,215 (75%)	✓ X ?	✓ X ?	
Notes			✓ X ?	✓ X ?	
▼ 510 - Wearing Surface (Env 4)					
CS1	10,816 (78%)	10,215 (75%)	✓ X ?	✓ X ?	

QC / QA
Likely to be crowd-funded, could be picked up by the TF for BrM 2017 or beyond.

PONWEB-2237

≈ 25 Service Units

Scheduled Task

Likely to be crowd-funded, could be picked up by the TF for BrM 2017 or beyond.

PONWEB-2195

Menu

Bridges Reports Admin Inspection Gateway Analysis Projects

Generate

Register

Schedule Process

Edit Check

SCHEDULE PROCESS

Select a Process: 25 - Update Suff. Rating

Process Info

Process Name: Update Suff. Rating

Time Created: 12/29/2014 3:08:43 PM

Created By: 939 - Fowler, Victoria

Last Modified: 3/9/2016 1:37:36 PM

Modified By: 1 - User, Pontis

Last Run: 5/1/2016 8:24:25 PM

Last Run Result: Task completed successfully.

Save Process Delete Process

Reports For Selected Process

Add Report Save Reports

Report

Schedule Process - Update Suff. Rating

Arguments

@ShowDetail

939 - Fowler, Victoria

665 - Yates, Benjamin

350 - Christie, Eric

926 - Simmons, Karen

844 - Abdalla, Ramy

Add User Remove User

Scheduled Tasks Functionality Includes

- Running crystal reports at periodic intervals
- Emailing those reports to set individuals.
- Periodically running Validation (Submittal checks) or Sufficiency Rating calculations and notifying users of results.

≈ 15 Service Units

Sync Process

Likely to be crowd-funded, could be picked up by the TF for BrM 2017 or beyond.

PONWEB-2241

≈ 20 Service Units


Sync to Enterprise ?

Selected Bridges

Bridge ID	District	County
04 08529	District 02	013

« < 1 > » Page size: 1 items in 1 pages

Selected: 1

Sync to Enterprise 

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