



BrM 5.2.1
Implementation



Pontis 4.x



Bridge Inspection Mode: Edit Type: Regular NBIS Key: DRGE

Bridge: 043030F | Find... | Inspections (9) | 06/03/2014 | Metric | English | Reports... | Save

1 CONDITION | 2 NOTES | 3 WORK | 4 APPRAISAL | 5 INVENTORY | 6 UDOT Data | 7 SCHEDULE | 8 MEDIA

1 Bridge	Structure Information		Posting and Safety		Clearances		ABC Elements	
	Shed Number: 1		Post in Place (41): A		Overhead Restriction		Deck: None	
	Underwater Cat: Category 4		Posting Legend: None		Lane Direction: NBL SBL		Superstructure: None	
	Culvert Len (Ft): 0		Sign Legibility: No		Max (Ft. In): 99 0 99 0		Substructure: None	
2 Inspections	Insp Crane Req'd: No		Sign Visible: No		Lane Number: 0		Precast Abutment: <input type="checkbox"/>	
	Crane Used: 01/01/1901		Obj Markers Req'd: Yes		Min (Ft. In) (53): 99 99 99 0 99 0		Precast Bent Caps: <input type="checkbox"/>	
	Deck		Panel Placed: No		Road or RR Under Bridge		Precast Columns: <input type="checkbox"/>	
	Structure Type (107): Concrete Precast Panel		Parapet Delineator in Place: No		Lane Direction: NA NA		Approach Slab: None	
3 Roadways	Surface Type (108A): Bituminous		Approach Signing in Place: No		Max (Ft. In): 0 0 0 0		Box Culvert: <input type="checkbox"/>	
	Expansion Joint Type: None		All Directions: No		Max Lane Number: 0		Delivery Method: None	
	Superstructure		Legend: None		Min (Ft. In) (54): 0 0 0 0			
	Type of Structure: Pre. Con. Tee		Preventive Treatment History		Clearance Sign Data			
4 Structure Units	Fracture Critical: N/A		Year Painted: 0		Signs in Place: No No			
	Bearings Type: Elastomeric		Year Deck Polymer Overlay: 0		Signs Correct: - -			
	Painting System: None		Year Deck Asphalt Overlay: 0		Signs Legible: - -			
	Substructure		Year Joint Rehabed: 0		Signs Standard: - -			
Foundation Type: Footings		Year Concrete Sealed: 0		Approach Rqd: - -				
Adeq of Bridge Open: Good		Year Approach Jacked: 0		Existing Legend: None None				
Adequacy of Channel: Good		Year Slope Protect Seal: 0		Correct Legend: None None				
Channel Contrl Device: concrete lining								
Channel Velocity: Slow								
Stream Bed Material: Concrete								

Ready | Empty Database (pontis) | EDIT OFF | 08/26/2014 09:31:05

Pontis 4.x

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Show: All Notes Structure Notes Only Inspection Notes Only

Context	Code	Text
bridge-findings	SUB	8/24/92 TIGHT VERTICAL CRACKING OF BACKWALLS. SCALING OF CONCTETE ON EDGES OF WALLS NEXT TO ABUTMENT SEATS.
bridge-findings	APR	8/24/92 MINOR SETTLEMENT OF APPROACH PAVEMENT AT BACKWALLS APROX 1in.
bridge-findings	DEC	8/24/92 MINOR SCALING OF CONCRETE ON EDGES OF TOP DECK WHERE CURBS SHOULD BE.
bridge-findings	CHN	8/24/92 CONCRETE CHANEL UNDER STRUCTURE.
bridge-findings	DEC	7/11/96 The edges of the double tee girders have heavy spaling with reinforcing steel exposed and loose from the concrete. The bottom of the deck has efflorescence at the transverse join
bridge-findings	APR	7/11/96 Same
bridge-findings	SUB	7/11/96 same
bridge-findings	DEC	07/17/2002 The edges of the deck continues to spall. The rusting and section loss in the steel is getting worse.
bridge-findings	SUB	07/17/2002 Same.
bridge-findings	APR	07/13/00 Settlement appears unchanged.
bridge-findings	DEC	07/13/00 Same.
bridge-findings	DEC	07/13/00 Edges of the deck continue to deteriorate.
bridge-findings	SUB	07/13/00 Cracks remain minor.
bridge-findings	APR	07/07/98 The settlement of the approach pavement is up to two inches in some areas.
bridge-findings	DEC	07/07/98 Conditions remain the same. The asphalt wearing surface does not extend to the edge of the deck.

Context	Code	Text
inspevnt - system	CREATE	Created inspection DRGE for structure 043030F
inspevnt-recommend	SFTY	06/03/14 Update approach & bridge rail to meet current standards.
inspevnt-recommend	CNTRCT	06/03/14 Remove excess asphalt over the structure. Repair or replace outside double T beams.
inspevnt-recommend	SGN	06/03/14 Place object markers at corners of the structure.



Modernization

Test Environment

User ID: zboyle

Password:

Database: Pontis_Test ▼

- Pontis_Prod
- Pontis_Test

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444 North Capital Street, N.W. Suite 249
Washington, D.C. 20001 U.S.A.
Phone: (202) 624-5800 Fax: (202) 624-5806

Migrator

Visual Element Migrator - 1.1.0.20

Edit Migrator Rules CoRe Elements AASHTO Elements Settings

CoRe Element Details

Summary	Total Quantity	BRKEY	INSPDATE	ELEMKEY	State Quantities					INSPK	
Bridge: '04 07598' Inspection: ('NNRG' 12-15-2004) Element: 40 SU: 0 Envkey: 2	219.00				219.00	0.00	0.00	0.00	0.00	0.00	NN
Bridge: '04 07598' Inspection: ('NNRG' 12-15-2004) Element: 104 SU: 0 Envkey: 2	230.00				228.78	1.22	0.00	0.00	0.00	0.00	NN
Bridge: '04 07598' Inspection: ('NNRG' 12-15-2004) Element: 215 SU: 0 Envkey: 2	44.00				44.00	0.00	0.00	0.00	0.00	0.00	NN
Bridge: '04 07598' Inspection: ('NNRG' 12-15-2004) Element: 321 SU: 0 Envkey: 2	2.00				2.00	0.00	0.00	0.00	0.00	0.00	NN
Bridge: '04 07598' Inspection: ('NNRG' 12-15-2004) Element: 333 SU: 0 Envkey: 2	26.00				26.00	0.00	0.00	0.00	0.00	0.00	NN
Bridge: '04 07598' Inspection: ('NNRG' 12-15-2004) Element: 364 SU: 0 Envkey: 2	1.00				1.00	0.00	0.00	0.00	0.00	0.00	NN
Bridge: '04 07598' Inspection: ('NNRG' 12-15-2004) Element: 515 SU: 0 Envkey: 2	91.00				91.00	0.00	0.00	0.00	0.00	0.00	NN
Bridge: '04 07598' Inspection: ('OSFV' 02-11-2004) Element: 40 SU: 0 Envkey: 2	219.00				219.00	0.00	0.00	0.00	0.00	0.00	OS
Bridge: '04 07598' Inspection: ('OSFV' 02-11-2004) Element: 104 SU: 0 Envkey: 2	230.00				228.78	1.22	0.00	0.00	0.00	0.00	OS
Bridge: '04 07598' Inspection: ('OSFV' 02-11-2004) Element: 215 SU: 0 Envkey: 2	44.00				44.00	0.00	0.00	0.00	0.00	0.00	OS
Bridge: '04 07598' Inspection: ('OSFV' 02-11-2004) Element: 321 SU: 0 Envkey: 2	2.00				2.00	0.00	0.00	0.00	0.00	0.00	OS
Bridge: '04 07598' Inspection: ('OSFV' 02-11-2004) Element: 333 SU: 0 Envkey: 2	26.00				26.00	0.00	0.00	0.00	0.00	0.00	OS
Bridge: '04 07598' Inspection: ('OSFV' 02-11-2004) Element: 364 SU: 0 Envkey: 2	1.00				1.00	0.00	0.00	0.00	0.00	0.00	OS
Bridge: '04 07598' Inspection: ('OSFV' 02-11-2004) Element: 515 SU: 0 Envkey: 2	91.00				91.00	0.00	0.00	0.00	0.00	0.00	OS
Bridge: '04 07598' Inspection: ('UEVW' 12-03-2002) Element: 40 SU: 0 Envkey: 2	219.00				219.00	0.00	0.00	0.00	0.00	0.00	UE
Bridge: '04 07598' Inspection: ('UEVW' 12-03-2002) Element: 104 SU: 0 Envkey: 2	230.00				228.78	1.22	0.00	0.00	0.00	0.00	UE
Bridge: '04 07598' Inspection: ('UEVW' 12-03-2002) Element: 215 SU: 0 Envkey: 2	44.00				44.00	0.00	0.00	0.00	0.00	0.00	UE
Bridge: '04 07598' Inspection: ('UEVW' 12-03-2002) Element: 321 SU: 0 Envkey: 2	2.00				2.00	0.00	0.00	0.00	0.00	0.00	UE
Bridge: '04 07598' Inspection: ('UEVW' 12-03-2002) Element: 333 SU: 0 Envkey: 2	26.00	04 07598	12/03/2002		26.00	0.00	0.00	0.00	0.00	0.00	UE
Bridge: '04 07598' Inspection: ('UEVW' 12-03-2002) Element: 364 SU: 0 Envkey: 2	1.00	04 07598	12/03/2002	364	1.00	0.00	0.00	0.00	0.00	0.00	UE
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Bridge: '04 07598' Inspection: ('WIPL' 12-05-2000) Element: 40 SU: 0 Envkey: 2	219.00	04 07598	12/05/2000	40	219.00	0.00	0.00	0.00	0.00	0.00	W
Bridge: '04 07598' Inspection: ('WIPL' 12-05-2000) Element: 104 SU: 0 Envkey: 2	230.00	04 07598	12/05/2000	104	229.00	1.00	0.00	0.00	0.00	0.00	W
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Bridge: '04 07598' Inspection: ('WIPL' 12-05-2000) Element: 364 SU: 0 Envkey: 2	1.00	04 07598	12/05/2000	364	1.00	0.00	0.00	0.00	0.00	0.00	W
Bridge: '04 07598' Inspection: ('WIPL' 12-05-2000) Element: 515 SU: 0 Envkey: 2	91.00	04 07598	12/05/2000	515	91.00	0.00	0.00	0.00	0.00	0.00	W
Bridge: '04 07598' Inspection: ('JHKG' 11-16-1998) Element: 104 SU: 0 Envkey: 2	230.00	04 07598	11/16/1998	104	229.00	1.00	0.00	0.00	0.00	0.00	JH

Download Elements Generate Specs Migrate List Load Save Page 1 of 1 Page Size 200,000

Loading compiled rules data started at 8/27/2014 2:04:23 PM
 Compiled rules Xml data source file: C:\Users\zboyle\AppData\Roaming\AASHTOWare\Visual Element M
 The Xml in the compiled rules file was successfully validated against the conversion schema: 8/27/2014

View Show tooltips Exit



Element Notes

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BrM Bridge Management

Menu: Condition, Appraisal, Inventory, Schedule, Work, Multimedia, Assessments, UDOT Old Bridge Notes

Bridge: 001002F Facility Carried: (007) COUNTY ROAD

Approach:

- 06-MAY-2002: 05/06/2002 The approach guardrail does not meet current safety standards.
- 12-MAR-2008: 03/12/2008 Speeds are not reduced, Joints are open at this time.
- 10-MAR-2010: 03/10/2010 Narrow bridge. Speeds are reduced.
- 12-FEB-2012: 02/12/2012 TS Approach is in fair condition. Cold joints are open. Approach guard railing is in place and object markers are in place.
- 19-MAR-2014: 03/19/2014 TS Approach roadway wearing surface is in good condition. There is vegetation built up along the guardrail. All object

Change:

- 04-APR-2004: 04/04/2004 Ron Rasmussen, Dan Adams.
- 04-APR-2006: 04/04/2006 Dale, Terri
- 12-MAR-2008: 03/12/2008 Terri Taylor, Clint McCleery full NBI inspection. X-section was performed at this time.
- 10-MAR-2010: 03/10/2010 Terri Taylor, BR regular routine inspection.
- 12-FEB-2012: 02/12/2012 Normal NBI and Element Level Inspection. Tyson Schultz and Justin Jar. Russ Gale from Beaver County road commission
- 19-MAR-2014: 03/19/2014 Routine NBI and Element Level Inspection. Tyson Schultz and Dan Adams. Loadrating will be performed during the curre

Channel:

- 05-APR-2004: 04/05/2004 Not able to perform x-section during this inspection, unable to carry rod in sedan. Inspection van was out of commission.
- 12-MAR-2008: 03/12/2008 X-section was performed at this time. Tree in the channel still exists and is in the way of a normal channel flow.
- 10-MAR-2010: 03/10/2010 X-section was performed as part of the 2008 inspection.
- 12-FEB-2012: 02/12/2012 TS Channel has no vegetation and riprap in the channel is good. Channel is flowing directly at the NE wingwall. There is a
- 19-MAR-2014: 03/19/2014 TS Channel bed has small cobble stones in most of the channel. The banks are lined with riprap. Vegetation is built up on

Culvert:

Deck:

- 05-APR-2004: 04/05/2004 Joints are open at this time.
- 04-APR-2006: 04/04/2006 Asphalt wearing surface and bridge rail are in good condition.
- 12-MAR-2008: 03/12/2008 Joints are beginning to open.
- 10-MAR-2010: 03/10/2010 Joints are open. Wearing surface is in fair condition.
- 12-FEB-2012: 02/12/2012 TS Wearing surface is in fair condition with no evidence of potholes or deterioration. Underside of deck is in good condit
- 19-MAR-2014: 03/19/2014 TS The 4 inch asphalt wearing surface is in fair condition. The Backwall joints are cracked open. Vegetation is built up al

Drainage:

Substructure:

- 06-JUN-1994: 06/06/94 breastwalls have minor vertical cracking. Plywood formwork has been left in place at the backwall on the south side.
- 24-APR-1998: 04/24/98 Conditions remain the same.
- 22-APR-1998: 04/22/98 Conditions remain the same.
- 12-APR-2000: 04/12/00 No change.
- 05-APR-2004: 04/05/2004 No change.
- 12-FEB-2012: 02/12/2012 TS Substructure is in good condition. There is two vertical cracks in the south abutment under the two center beams. The
- 19-MAR-2014: 03/19/2014 TS The south abutment currently has dry land along the length of the abutment. The north abutment is underwater, probir
- 19-MAR-2014: 03/19/2014 TS The substructure is in good condition. There are typical tight vertical cracks in the center of both abutments, 0.01 inch

Superstructure:

- 24-APR-1996: 04/24/96 There is minor leakage beginning between the the double T beams with minor efflorescence.
- 22-APR-1998: 04/22/98 Conditions remain the same and do not appear to be any worse.
- 12-APR-2000: 04/12/00 No change.
- 06-MAY-2002: 05/06/2002 There is no sign of recent leakage between the T beams. The west double T beam has a crack with light efflorescence
- 05-APR-2004: 04/05/2004 No change.
- 10-MAR-2010: 03/10/2010 Complete underside inspection did not occur due to the unsafe snowing conditions and rapid channel. Unable to detern
- 12-FEB-2012: 02/12/2012 TS Superstructure is in good condition. Some minor staining and leaking between the joints of the double tee beams.
- 19-MAR-2014: 03/19/2014 TS The superstructure is in good condition. There is some minor leakage and staining between the double tee beams. No

Element Notes

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Bridge DC 474 Facility Carried (007): ABANDONED RR GRADE Inspection: 2014-06-12 (USAO) Type: Regular NBIS

Condition Ratings

Deck (058): 6 Satisfactory Channel (061): N N/A (NB) Validate

Superstructure (059): 6 Satisfactory Culvert (062): N N/A (NB) Calculate SR

Substructure (060): 6 Satisfactory Waterway (071): N Not applicable

Unrepaired Spalls: (SF)

Element Conditions

- All Structures - Quantity Percent Show Last Col

Elem	Str. Unit	Env	Description	Quantity	Units	Qty. 1	Qty. 2	Qty. 3	Qty. 4
30	101	Mod. (3)	Steel Deck - Orthotropic	6251.195	sq.ft	0.000	6251.195	0.000	0.000
107	101	Low (2)	Steel Opn Girder/Beam	1005.600	ft	502.799	502.799	0.000	0.000
152	101	Low (2)	Steel Floor Beam	494.167	ft	0.000	494.167	0.000	0.000
210	101	Low (2)	Re Conc Pier Wall	47.300	ft	13.527	33.773	0.000	0.000
215	101	Low (2)	Re Conc Abutment	52.100	ft	0.000	52.100	0.000	0.000
234	101	Mod. (3)	Re Conc Pier Cap	71.001	ft	35.499	35.499	0.000	0.000
303	101	Low (2)	Assem Jnt With Seal	120.000	ft	96.719	23.281	0.000	0.000
311	101	Low (2)	Moveable Bearing	15.000	each	0.000	0.000	0.000	15.000
313	101	Low (2)	Fixed Bearing	15.000	each	0.000	0.000	0.000	15.000
330	101	Mod. (3)	Metal Bridge Railing	625.098	ft	469.449	155.650	0.000	0.000
5300	101	Low (2)	Reinforced Concrete Wingwalls	28.999	ft	28.999	0.000	0.000	0.000
5000	200	Ben. (1)	General Notes	1.000	each	1.000	0.000	0.000	0.000
5001	200	Ben. (1)	Maintenance Recommendations	3.000	each	3.000	0.000	0.000	0.000
5002	200	↗	Safety Recommendations	1.000	each	1.000	0.000	0.000	0.000
5003	200	↗	Signage Recommendations	1.000	each	1.000	0.000	0.000	0.000

Str. Unit: 101
Elem: 210 Re Conc Pier Wall
Env: Low (2)

Concrete wall is in satisfactory condition with surface delamination in center pier wall, north side. Tight map cracking in random locations. No exposed reinforcing observed.

Notes:



ADE's

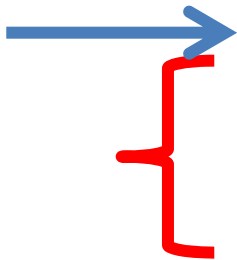
107	101	Low (2)	Steel Opn Girder/Beam	1005.600	ft	502.799	502.799	0.000	0.000	X
152	101	Low (2)	Steel Floor Beam	494.167	ft	0.000	494.167	0.000	0.000	X
210	101	Low (2)	Re Conc Pier Wall	47.300	ft	13.527	33.773	0.000	0.000	X
215	101	Low (2)	Re Conc Abutment	52.100	ft	0.000	52.100	0.000	0.000	X
234	101	Mod. (3)	Re Conc Pier Cap	71.001	ft	35.499	35.499	0.000	0.000	X
303	101	Low (2)	Assem Jnt With Seal	120.000	ft	96.719	23.281	0.000	0.000	X
311	101	Low (2)	Moveable Bearing	15.000	each	0.000	0.000	0.000	15.000	X
313	101	Low (2)	Fixed Bearing	15.000	each	0.000	0.000	0.000	15.000	X
330	101	Mod. (3)	Metal Bridge Railing	625.098	ft	469.449	155.650	0.000	0.000	X
5300	101	Low (2)	Reinforced Concrete Wingwalls	28.999	ft	28.999	0.000	0.000	0.000	X
5000	200	Ben. (1)	General Notes	1.000	each	1.000	0.000	0.000	0.000	X
5001	200	Ben. (1)	Maintenance Recommendations	3.000	each	3.000	0.000	0.000	0.000	X
5002	200	⚡	Safety Recommendations	1.000	each	1.000	0.000	0.000	0.000	X
5003	200	⚡	Signage Recommendations	1.000	each	1.000	0.000	0.000	0.000	X

Str. Unit: 200
 Elem: 5000 General Notes
 Env: Ben. (1)

Notes:
 Inspection team consists of Nash Wilson as lead and Brandon Reda team member both with HDR. Brandon performed inspection today. Routine NBI and element inspections. Bridge is to be load rated as part of the current program. Due to excessive height with visual clearance, no vertical clearances were taken at this time.

States: No Condition St

Inspection Comparison



Agency Keys

The screenshot displays the BrM Bridge Management software interface. The top navigation bar includes 'Bridges', 'Reports', 'Admin', 'Inspection', 'Gateway', and 'Analysis'. The left sidebar contains a 'Menu' with options like 'Condition', 'Appraisal', 'Inventory', 'Admin', 'Design', 'Roads', 'Agency Items', 'UDOT Data', 'Clearance', 'Cross Section', 'Critical Findings', 'Pre-Desk Audit', 'Schedule', 'Work', 'Multimedia', 'Assessments', and 'UDOT Old Bridge Notes'. The main content area shows the 'Agency Bridge Items' form for bridge 'OC 474'. The form includes a dropdown for 'Bridge' (OC 474), 'Facility Carried (007): ABANDONED RR GRADE', 'Inspection: 2014-08-12 (USAO)', and 'Type: Regular NBIS'. The 'Agency Bridge Items' section contains 15 numbered items, each with a dropdown menu. Below the form, there is a metadata section with 'Created on: 5/8/2001 11:31 AM', 'Last Updated: 8/22/2014 11:37 AM', 'Created by: ValueOf(pont)createuserkey', and 'Updated by: (NASH WILSON) WILSON, NASH'. At the bottom, there is a status bar with 'Status: New - modified', a checked 'Review Needed' checkbox, 'Approved By:', and three buttons: 'Save', 'Save & Close', and 'Cancel'.

Menu

Bridges Reports Admin Inspection Gateway Analysis

Bridge: OC 474 Facility Carried (007): ABANDONED RR GRADE Inspection: 2014-08-12 (USAO) Type: Regular NBIS

Agency Bridge Items

1 Deck Type:	Cast-in-Place
2 Deck Material:	Concrete
3 Reinforcing Steel Protection:	Black Bar
4 Approach Slab Type:	None
5 Concrete Beam Type:	None
6 Arch Type:	None
7 Steel Girders:	Curved
8 Steel Protective Coating:	Three Part System
9 Abutment Type:	Cast-in-Place
10 Pier Cap Type:	Cast-in-Place Pier Cap
11 Column Type:	None
12 Foundation Type:	Piles
13 Parapets:	None
14 ABC Delivery Method:	None
15 Culvert Type:	Not a culvert

Created on: 5/8/2001 11:31 AM Last Updated: 8/22/2014 11:37 AM
Created by: ValueOf(pont)createuserkey Updated by: (NASH WILSON) WILSON, NASH

Status: New - modified Review Needed Approved By: Save Save & Close Cancel

Agency Forms

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

Type: Navigation Security

Object: Tabs Tasks Groups Controls

Select: Tab: Inspection Task: UDO

Control Name

- Chan Contrl Div Cond
- Stream Bank Erosion
- Debris in Channel
- Veg in Channel
- Chan Control Devices
- Channel Velocity
- Stream Bed Material
- Chan Alignment

Chan Contrl Div Cond Properties

Name: Chan Contrl Div Cond

Control Type: TextBox

Table Name: userbrdg

Column Name: channel_control_device

Order: 5

Label: Control Device

Visible:

Read Only:

ValueBoldInd:

Value Color: None

Field Width: 100 px

Label Width: 100 %

Height in Rows: 1

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

Condition

Bridge: 053038C Facility Carried: (007): COUNTY ROAD Inspection: 2014-02-27

Deck Condition

Surf Thickness (in): 1

Fencing: N/A

Sidewalks: N/A

Curbs: N/A

Median: N/A

Superstructure Condition

Vibrations: Good

Diaph Alignment: Fair

Diaph Attachment: Fair

Splice Plates: N/A

Welds: Fair

Bolts / Rivets: N/A

Substructure Condition

Collision Damage: Good

Bearing Pedestals: N/A

Abut Seat Debris: Fair

Bent Debris: Fair

Load Ratings

LRFR Rating

Oper Load (064): 3.4 ton

Inv Load (066): 2.6 ton

Type 3: 3.9370

Type 3S2: 4.0920

Type 33: 4.7810

SU4: 3.3150

SU5: 3.0840

SU6: 2.8450

SU7: 2.7970

UTP6: 3.8880

UTP7: 3.6590

UTP8: 3.6870

UTP9a: 4.1020

UTP9b: 5.4380

LFR Rating

Oper Load: 6.14 ton

Inv Load: 3.68 ton

Type 3: 6.0340

Type 3S2: 6.2720

Type 33: 7.3270

SU4: 5.0820

SU5: 4.7260

SU6: 4.3600

SU7: 4.2870

UTP6: 4.5840

UTP7: 4.3140

UTP8: 4.3470

UTP9a: 4.8360

UTP9b: 6.4120

Posting Data

Posting Legend: None

Sign Legibility: No

Sign Visible: No

Obj Markers Reqd: Yes

Obj Markers Placed: Yes

Approach Sign Legend: None

Save Save

Agency Forms

Br M Bridge Management

Menu **Bridges Reports Admin Inspection Gateway Analysis**

Condition Appraisal Inventory Admin Design Roads Agency Items UDOT Data Clearance Cross Section Critical Findings Pre-Desk Audit Schedule Work Multimedia Assessments UDOT Old Bridge Notes

Bridge: Facility Carried: (007): **ABANDONED RR GRADE**

Clearance Measures			
1: 18.1	1: 18.1	1: Edge of Paven	1: +
2: 18.0	2: 18.0	2: Thru	2: 3 +
3: 17.9	3: 17.9	3: Thru	3: 2 3 +
4: 17.8	4: 17.8	4: Thru	4: 1 4 +
5: 17.7	5: 17.7	5: Inside Edge of	5: 5 +
6: 17.6	6: 17.6	6: N/A	6: +
7: 17.5	7: 17.5	7: Edge of Paven	7: 7 -
8: 17.4	8: 17.4	8: Inside Edge of	8: 8 -
9: 17.3	9: 17.3	9: Thru	9: 1 9 -
10: 17.2	10: 17.2	10: Thru	10: 2 10 -
11: 17.1	11: 17.1	11: Thru	11: 3 11 -
12: 17.0	12: 17.0	12: Edge of Paven	12: 12 -
13:	13:	13: N/A	13: N
14:	14:	14: N/A	14: N
15:	15:	15: N/A	15: N
16:	16:	16: N/A	16: N
17:	17:	17: N/A	17: N
18:	18:	18: N/A	18: N
19:	19:	19: N/A	19: N
20:	22:	20: N/A	20: N
21:	21:	21: N/A	21: N
22:	22:	22: N/A	22: N
23:	23:	23: N/A	23: N
24:	24:	24: N/A	24: N
25:	25:	25: N/A	25: N
26:	26:	26: N/A	26: N
27:	27:	27: N/A	27: N
28:	28:	28: N/A	28: N
29:	29:	29: N/A	29: N
30:	30:	30: N/A	30: N

UDOT Clearance Data

Overhead Measurement Direc
Lane Direction 1:
Lane Number 1:

Overhead Measurements
Max 1 Ft: Ma
Min 1 Ft: in:

Under Road or RR Direction
Lane Direction 3:
Lane Number 1:

Under Measurements
Max 1 Ft: in:
Min 1 Ft: in:

Clearance Signs
Sign Placed 1:
Signs Correct 1:
Sign Legible 1:
Sign Standard:
Approach Sign Req'd:
Existing Legend 1:

Save Save & Close Cancel

Br M Bridge Management

Menu **Bridges Reports Admin Inspection Gateway Analysis**

Condition Appraisal Inventory Admin Design Roads Agency Items UDOT Data Clearance Cross Section Critical Findings Pre-Desk Audit Schedule Work Multimedia Assessments UDOT Old Bridge Notes

Bridge: Facility Carried: (007): **SR-24** Inspection:

Cross Section Baseline

Bank 1:
Bank 2:
Control Point:
Road 1:
Road 2:
Bottom of Beam:
Top of Water:

Location - Measures

1: 0	1: 7.5
2: 6	2: 7.5
3: 6	3: 15.6
4: 10	4: 18.6
5: 20	5: 20
6: 30	6: 19.9
7: 40	7: 19.5
8: 50	8: 19
9: 56	9: 19.2
10: 56	10: 7.7
11: 60	11: 7
12:	12:
13:	13:
14:	14:
15:	15:
16:	16:
17:	17:
18:	18:
19:	19:
20:	20:

Sign Placed 1: Sign Correct 1:

Security

BrM ASPHALT **Bridge** MANAGEMENT

Menu

- Condition
- Appraisal
- Inventory
- Schedule
- Work
- Assessments
- UDOT Old Bridge Notes

Bridges Reports Inspection Gateway Analysis

Bridge: 0C 750 Facility Carried (007): SR-24 Inspection: 2013-05-15 (ZKJC) Type: Regular NBIS Metric English

Structural Appraisal

Open/Posted/Closed (041):	A Open, no restriction
Approach Alignment (072):	8 Equal Desirable Crit
Bridge Railings (036A):	1 Meets Standards
Transitions (036B):	1 Meets Standards
Approach Guardrail (036C):	1 Meets Standards
Approach Guardrail Ends (036D):	0 Substandard
Pier Protection (111):	1 Not Required
Scour Critical (113):	8 Stable Above Footing
Fracture Critical Details:	No Fracture Critical Det

Calculated Appraisal Ratings

Structural Evaluation (067): 7 Above Min Criteria
Deck Geometry (068): 6 Equal Min Criteria
Underclearances (069): N Not applicable (NBI)
SD/FO Status: Not Deficient
Sufficiency Rating (SRB): 98.8
Sufficiency Rating Calculate Status: **SAVED / 0**
Health Index: 82.04%

Clearances

Minimum Vertical Clearances

Over Structure (053):	99.016 ft
Under (Reference) (054A):	N Feature not hwy or RR
Under Clearance (054B):	0.000 ft

Minimum Lateral Clearances

Reference Feature (055A):	N Feature not hwy or RR
Right Side (055B):	0.000 ft
Left Side (056):	0.000 ft

Navigation Data

Navigation Control Exists (038):	NA-no waterway
Navigation Vertical Clearances (039):	0.000 ft
Navigation Horizontal Clearances (040):	0.000 ft
Minimum Vertical Lift Clearances (116):	ft

NBI Load Ratings

Load Rating Review Recommended:

Rating Date: 1/1/1901
Initials:


Design Load (031):	5 MS 18 (HS 20)
Posting (070):	5 At/Above Legal Loads
Operating Type (063):	2 AS Allowable Stress
Operating Rating (064):	35.7 ton
Inventory type (065):	2 AS Allowable Stress
Inventory Rating (066):	35.7 ton
Alternate Operating Rating Type:	(FIX PARAM VALUES)
Alternate Operating Rating:	ton
Alternate Inventory Rating Type:	All IR Method -1
Alternate Inventory Rating:	ton

Posting Loads

Inventory	
Type 1:	ton
Type 2:	ton
Type 3:	ton
Operating	
Type 1:	ton
Type 2:	ton
Type 3:	ton

Status: New - modified Review Needed Approved By: DALE DEBENHA Save Save & Close Cancel Delete Inspection

Crystal Reports



0C 474 Inspection Report
Inspector: Zachary Boyle
Inspection Date: September 08, 2014

PRE-DESK AUDIT
Bridge Issues

	Yes	No
This report identifies deficiencies requiring urgent corrective action.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Details:		
This bridge is scour critical:	<input type="checkbox"/>	<input checked="" type="checkbox"/>
This bridge contains fracture critical components:	<input type="checkbox"/>	<input checked="" type="checkbox"/>
This bridge needs a new load rating:	<input type="checkbox"/>	<input checked="" type="checkbox"/>
This bridge requires special inspection:	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Recommended Frequency:		

Report Contents


<input checked="" type="checkbox"/> Pre-Desk Audit	<input checked="" type="checkbox"/> Critical Findings Report
<input checked="" type="checkbox"/> Condition Ratings Report	<input checked="" type="checkbox"/> Vertical Underclearance Report
<input checked="" type="checkbox"/> Element Level Inspection Report	Cross Section Report
Bridge Photographs	Other:

Type of Inspection

NBI	Element	Fracture Critical	Underwater	Other Special
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Inspectors	Name	Date	P.E. Seal and Signature
Team Leader	Zachary Boyle	09/08/2014	
Field Checked	Nash Wilson	09/08/2014	
Checked			
Back Checked			
Corrected			
Verified			
Independent Field QC Review			
QA Review			

UDOT Inspection Report (v1.7)
Agency ID: 0C 474
Thu 09/11/2014 16:43:18
Page 1 of 8



001006V Inspection Report
Inspector: Dan Adams
Inspection Date: March 18, 2014

Bridge Key: 001006V
Agency ID: 001006V
SR: 100.00
SD/FO: ND

DECK CONDITION

Deck Overlay Thickness:	-1 Inches
Deck Finishing:	Not Applicable
Deck Sidewalk:	Not Applicable
Deck Curb:	Not Applicable
Deck Median:	Not Applicable

SUPERSTRUCTURE CONDITION

Vibration:	Not Applicable
Chapman Alignment:	Not Applicable
Chapman Adjustment:	Not Applicable
Roller Plates:	Not Applicable
Welds:	Not Applicable
Welds / Rivets:	Not Applicable

SUBSTRUCTURE CONDITION

Collision Damage:	Not Applicable
Seawing Problems:	Not Applicable
Abutment Seal:	Not Applicable
Deck Seals:	Not Applicable

CULVERT CONDITION

Fill Depth:	-1.00 Feet
Bank Alignment:	Good
Bank Joints:	Good
Invert Wear:	Good
Headwall:	Good
Outlet Condition:	Good

CHANNEL CONDITION

Channel Alignment:	Good
Debris:	Poor
Stream Bank Erosion:	Good
Vegetation:	Poor
Control Device:	None
Debris Condition:	Not Applicable
Channel Velocity:	Good
Stream Bed Material:	Good

SCHEDULE

Plans Available:	Field Remarks
Followed Inspection Required:	No
Checked for Followed Inspection:	
QC Reviewer's Name:	Tom Schultz

CLEARANCES

OVER STRUCTURE		UNDER STRUCTURE	
Min:	Max:	Min:	Max:
Not Applicable	Not Applicable	Not Applicable	Not Applicable
Not Applicable	Not Applicable	Not Applicable	Not Applicable

CLEARANCE SIGNS

Overpass	Underpass
Signs Present:	Not Applicable
Signs Correct:	Not Applicable
Signs Legible:	Not Applicable
Signs Standard:	Not Applicable
Approach Signs Required:	Not Applicable
Existing Legends:	None

POSTING DATA

Posting Legend:	None
Sign Legibility:	Not Applicable
Sign Visibility:	Not Applicable
Object Markers Required:	Not Applicable
Object Markers Present:	Not Applicable
Approach Sign Legend:	None

ROADWAY

ROAD OVER		ROAD UNDER	
Deck Drains:	N/A	Deck Drains:	
Approach Drains:		Approach Drains:	
Slope Protection:	N/A	Slope Protection:	
Slope Riprap:	N/A	Slope Riprap:	
Slope Joints:		Slope Joints:	
Slope Underpinning:		Slope Underpinning:	
Approach Fill Slopes:	N/A	Approach Fill Slopes:	
Housekeeping:	Poor	Housekeeping:	
Approach Settlement:	N/A	Approach Settlement:	
Ride Displacement:	Good	Ride Displacement:	-1.00 Inches
Approach Cutting:	N/A	Approach Cutting:	-1.00 Inches

UDOT Inspection Report (v1.7)
Agency ID: 001006V
Tue 09/02/2014 13:43:41
Page 2 of 5

Crystal Reports



OC 474 Inspection Report

Inspector: Zachary Boyle

Inspection Date: September 08, 2014

ELEMENT CONDITION DATA

2	30 / 3	Steel Deck - Orthotrope	sq.ft	8,251	0%	0	100%	8,251	0%	0	0%	0
8/12/14	Brandon Reda	Underside appears to be in satisfactory condition. Top surface is gravel with some vegetation growing up thru gravel.										
9/8/14	Zachary Boyle	This is a test of the notes section.										
2	107 / 2	Steel Open Girder/Beam	ft	1,006	60%	604	46%	462	6%	60	0%	0
8/12/14	Brandon Reda	Steel girders make up superstructure and are in satisfactory condition. Moderate freckled rust and surface corrosion typical throughout.										
9/8/14	Zachary Boyle	Another test of the notes section. Including a test of the quantity changes.										
2	152 / 2	Steel Floor Beam	ft	494	0%	0	100%	494	0%	0	0%	0
8/12/14	Brandon Reda	Steel floor beam is in satisfactory condition with freckled rust and surface corrosion typical throughout.										
2	210 / 2	Re Cono Pier Wall	ft	47	28%	14	71%	34	0%	0	0%	0
8/12/14	Brandon Reda	Concrete wall is in satisfactory condition with surface delamination in center pier wall, north side. Tight map cracking in random locations. No exposed reinforcing observed.										
2	216 / 2	Re Cono Abutment	ft	62	0%	0	100%	62	0%	0	0%	0
8/12/14	Brandon Reda	Abutments are in satisfactory condition. Slope protection below south side has settled adjacent to pier wall, on top of abutment and in a couple other isolated areas and has caused open cracking. North slope pavement has settled more near west end with open cracking.										
2	234 / 3	Re Cono Pier Cap	ft	71	60%	36	60%	36	0%	0	0%	0
8/12/14	Brandon Reda	Minor tight map cracking in random areas of pier caps. No other defects observed.										
2	305 / 2	Assem Jnt With Seal	ft	120	81%	97	18%	23	0%	0	0%	0
8/12/14	Brandon Reda	No joints on top surface (gravel only). Due to access cannot inspect joints from ground.										
2	311 / 2	Moveable Bearing	each	16	0%	0	0%	0	0%	0	100%	16
8/12/14	Brandon Reda	Bearing are heavily rusted. Due to being out of service for awhile, condition of bearing warrants structural review.										
2	315 / 2	Fixed Bearing	each	16	0%	0	0%	0	0%	0	100%	16
8/12/14	Brandon Reda	Bearing are heavily rusted. Due to being out of service for awhile, condition of bearing warrants structural review.										
2	330 / 3	Metal Bridge Railing	ft	826	76%	489	26%	168	0%	0	0%	0
8/12/14	Brandon Reda	Metal bridge railing is in fair condition. Surface rusting has initially started in random areas.										
2	6300 / 2	Reinforced Concrete Windowalls	ft	28	100%	28	0%	0	0%	0	0%	0
8/29/12	A J Yates											



Check In / Check Out

The screenshot shows the AASHTOWare Bridge Management interface. The 'Menu' is open to 'Check In'. The 'Selected Bridges' table is as follows:

Bridge ID	Inspector
0C 750	Dale Debenham
0D 750	Ron Rasmussen
1F 750	Colby Christensen

The screenshot shows the AASHTOWare Bridge Management interface with a warning message displayed. The 'Bridge' dropdown is set to '001006V'. The warning message is:

WARNING: This bridge (BRKEY = 001006V) has been...
Any changes to existing inspection or new records you c...
conflict with changes made to this bridge in other databa...

A 'Close' button is visible at the bottom right of the warning box.

Workstation Databases

AASHTO
Bridge
Management

User ID:

Password:

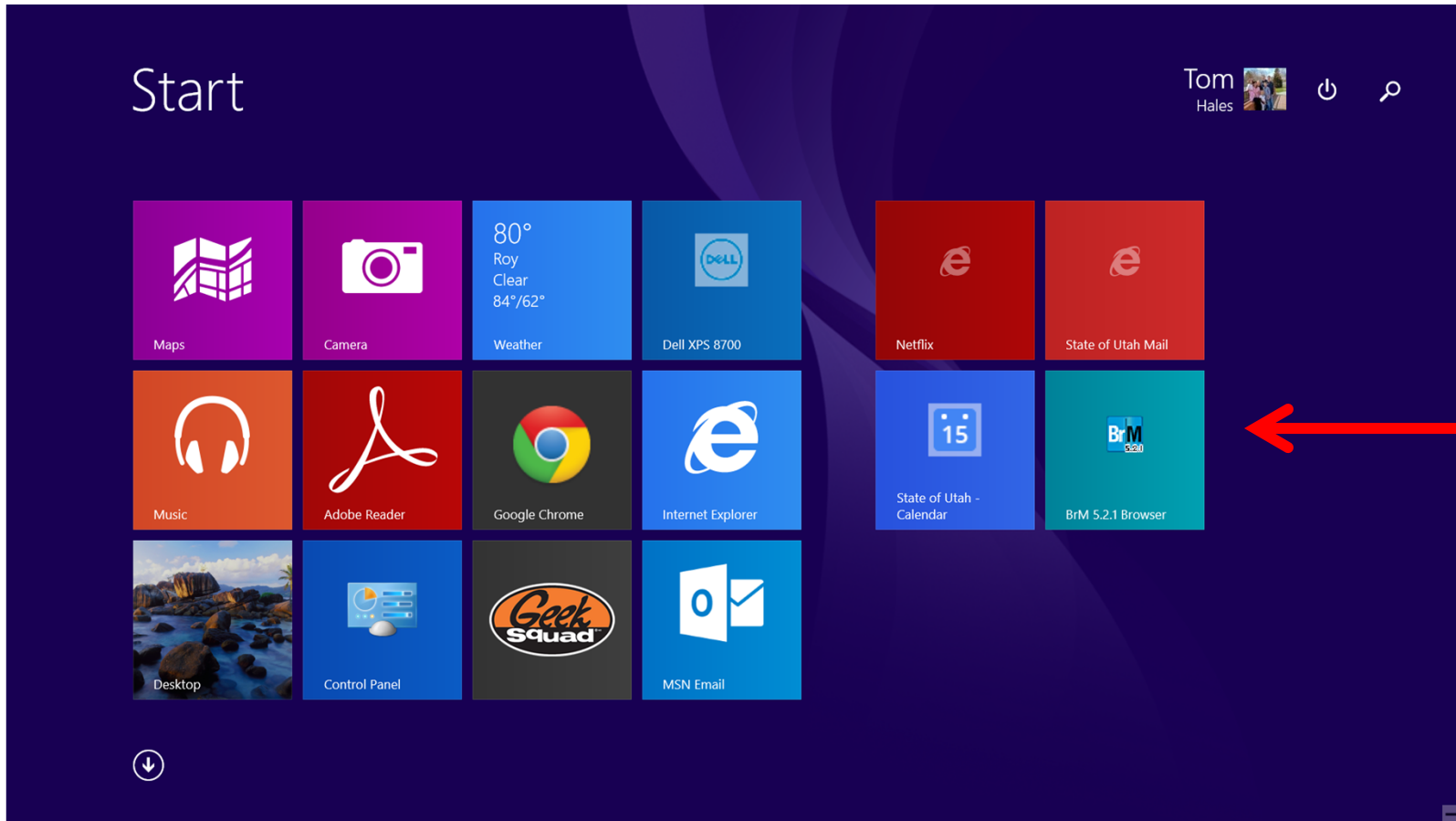
Database: ▼

Login

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A Proprietary Computer Software Product

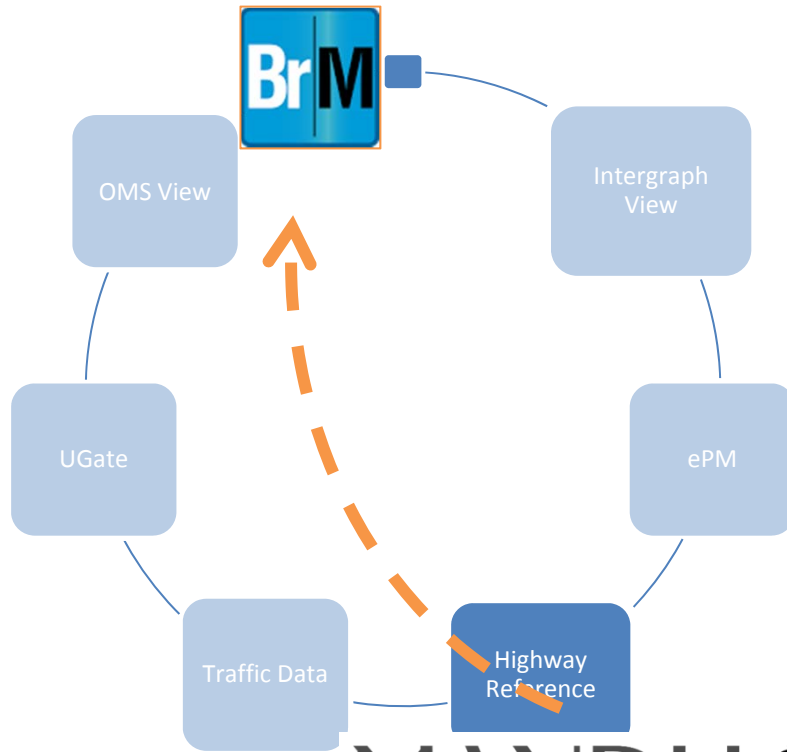
444 North Capital Street, N.W. Suite 249
Washington, D.C. 20001 U.S.A.
Phone: (202) 624-5800 Fax: (202) 624-5806

Surface Tablets



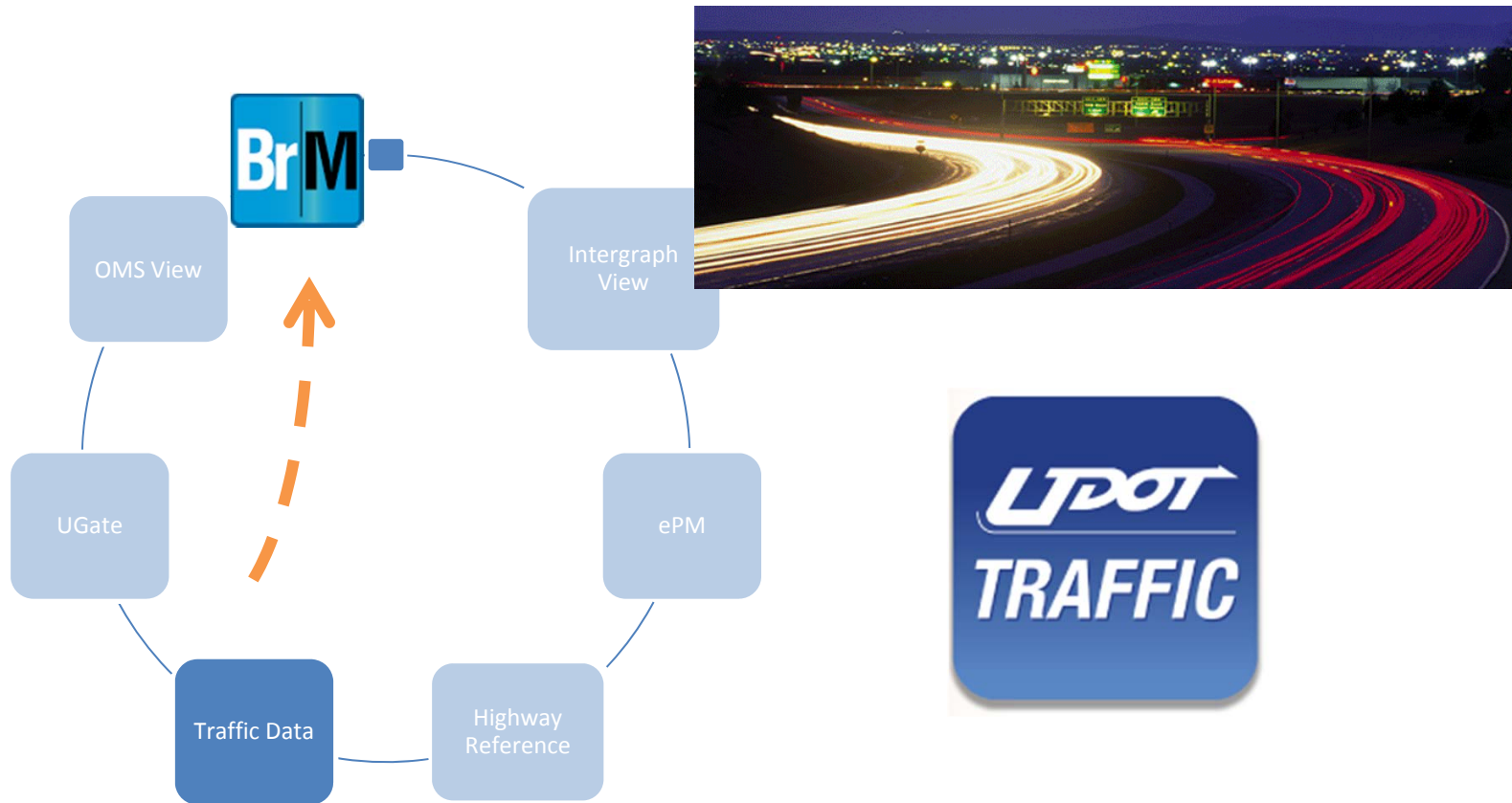


Mileposts

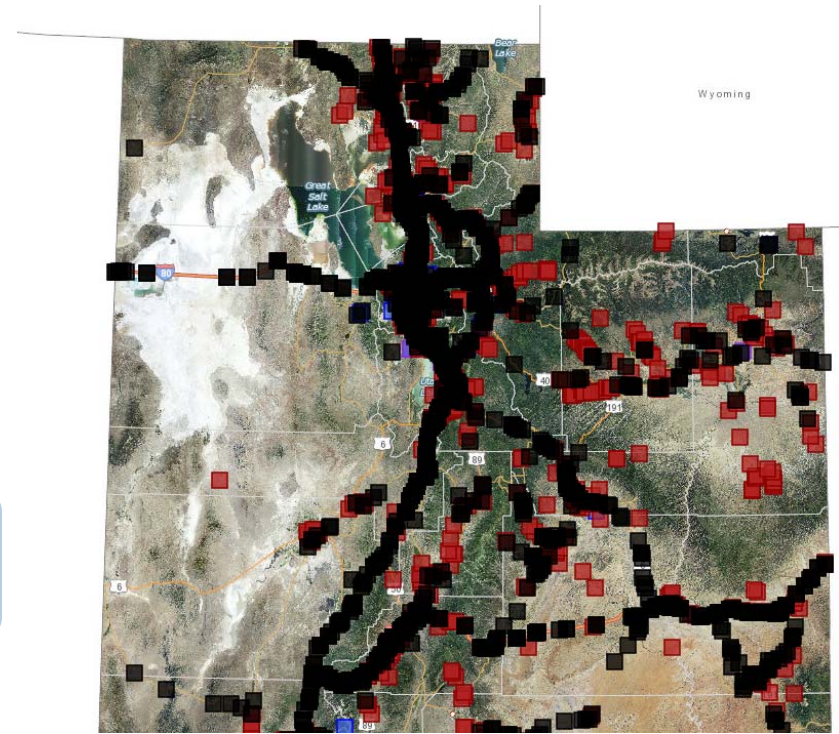
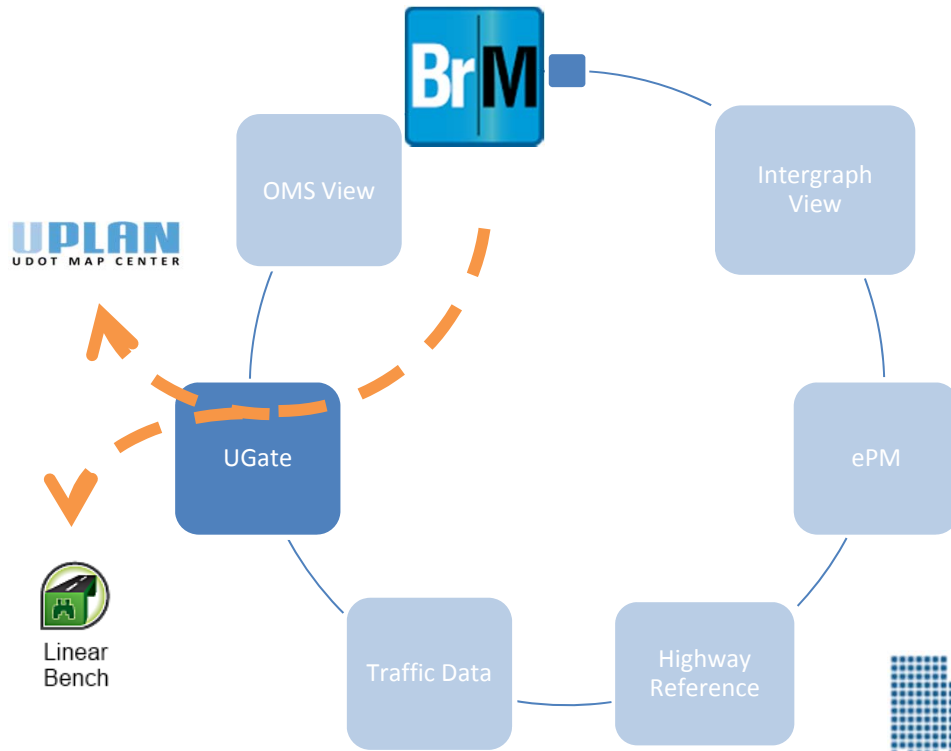


MANDLI 

Traffic Data

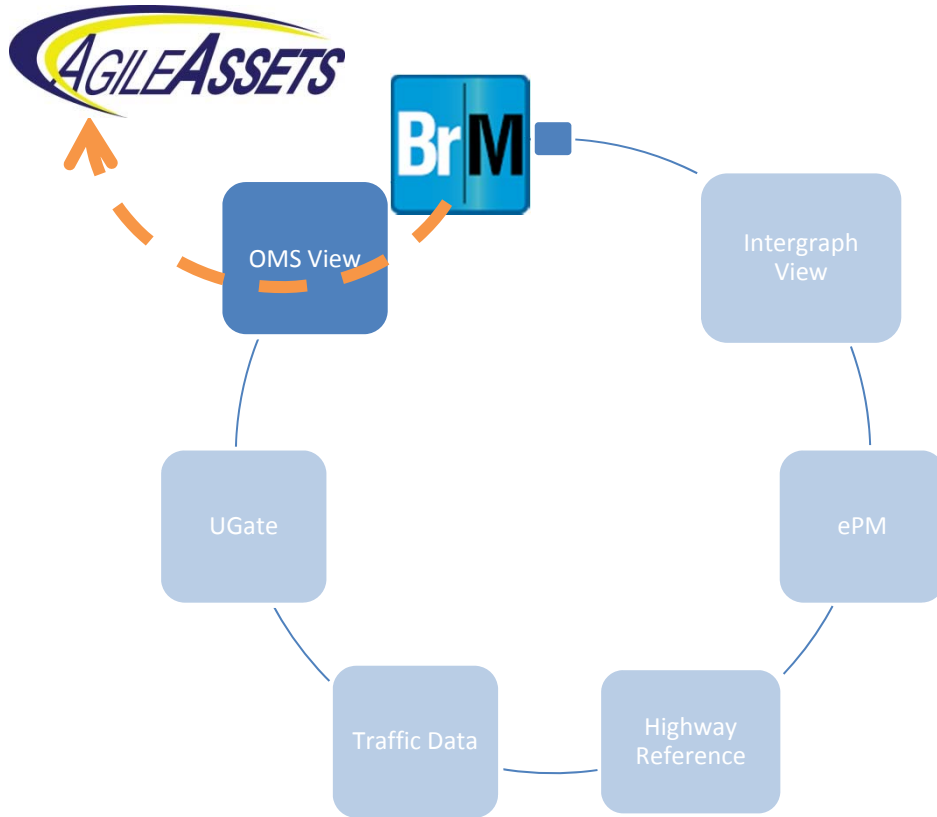


GIS

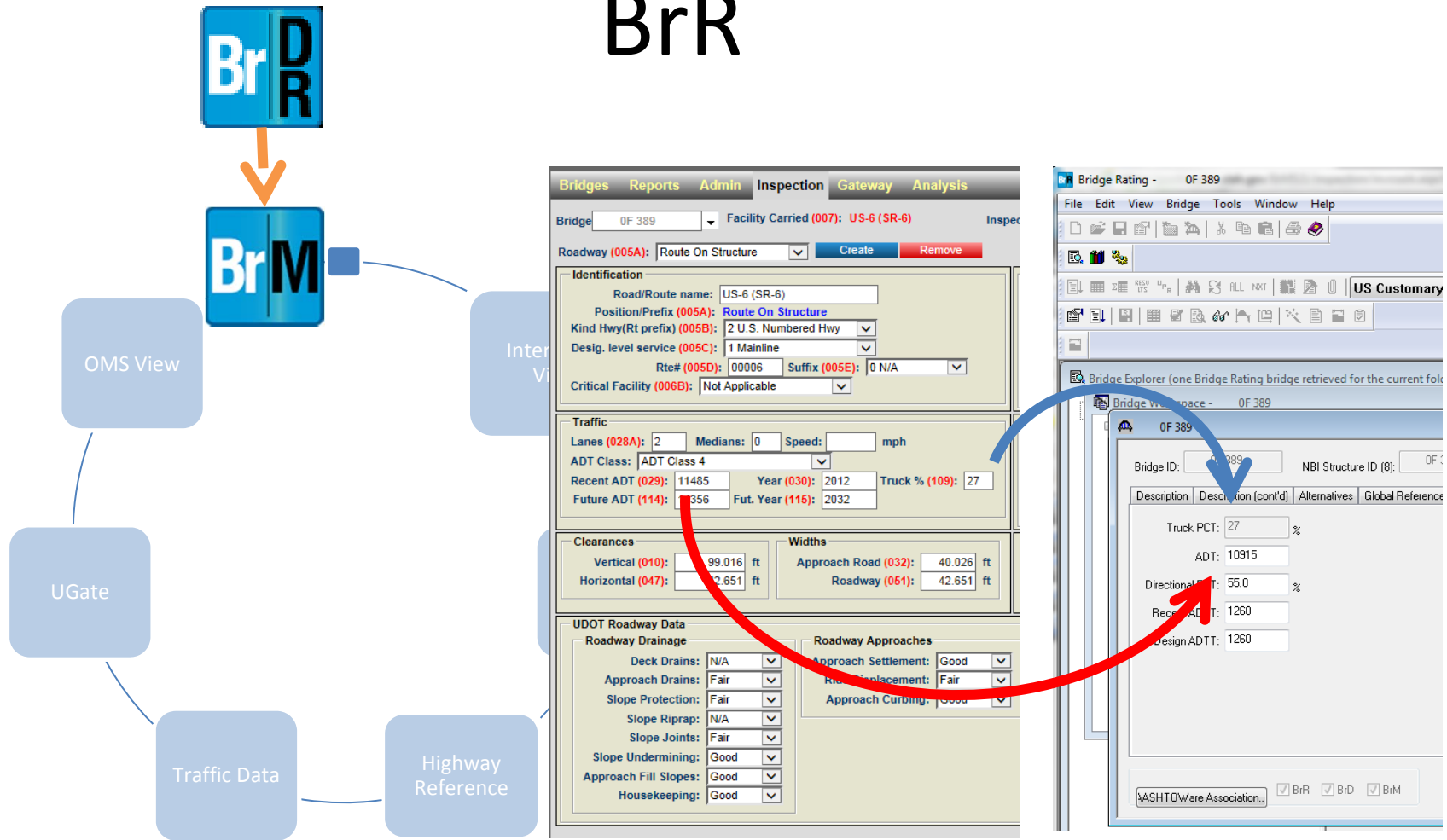


 **DATA** PORTAL

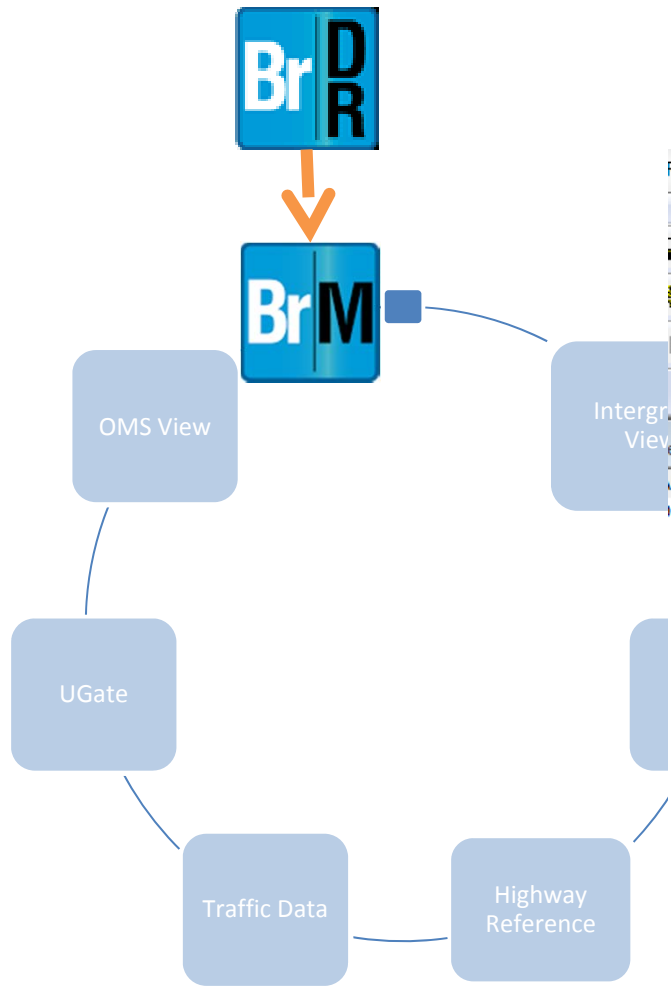
Maintenance



BrR



BrR



Rating -

View Bridge Tools Window Help

RESU LITS U_r ALL NXT

Integrative View

Explorer (one Bridge Rating bridge retrieved for th

All Bridges	BID	Bridge Id	Bridge Na
Deleted Bridges			
	1	OF 3	SR-10 Inte

BrM Bridge Rating

BrM NB	BrDR Vehicle
Load Rating Vehicle	
Rating	HL-93 (US)
Alternate	HS 20-44
Truck Type 1	Type 3
Truck Type 2	Type 3S2
Truck Type 3	Type 3-3

Analyze Cancel

ion: 2013-09-27 (LKOC) Type: Regular NBIS

raisal Ratings

- Structural Evaluation (067): 7 Above Min Criteria
- Deck Geometry (068): 5 Above Tolerable
- Underclearances (069): 6 Equal Minimum
- SD/FO Status: Not Deficient
- Sufficiency Rating (SRB): 97.0
- Sufficiency Rating Calculate Status: **SAVED / 2**
- Health Index: 99.81%

Posting Date: 8/7/2014

Initials: ZB

Design Load (03): 5 MS 18 (HS 20)

Posting (070): 5 At/Above Legal Loads

Operating Type (063): 1 LF Load Factor

Operating Rating (064): 64.9 ton

Inventory type (065): 1 LF Load Factor

Inventory Rating (066): 22.3 ton

Operating Rating Type: 1 SU4

ite Operating Rating: 103.3 ton

Inventory Rating Type: 1 SU4

ate Inventory Rating: 37.1 ton

Posting Loads

Inventory

Type 1:

Type 2:

Type 3:

Operating

Type 1:

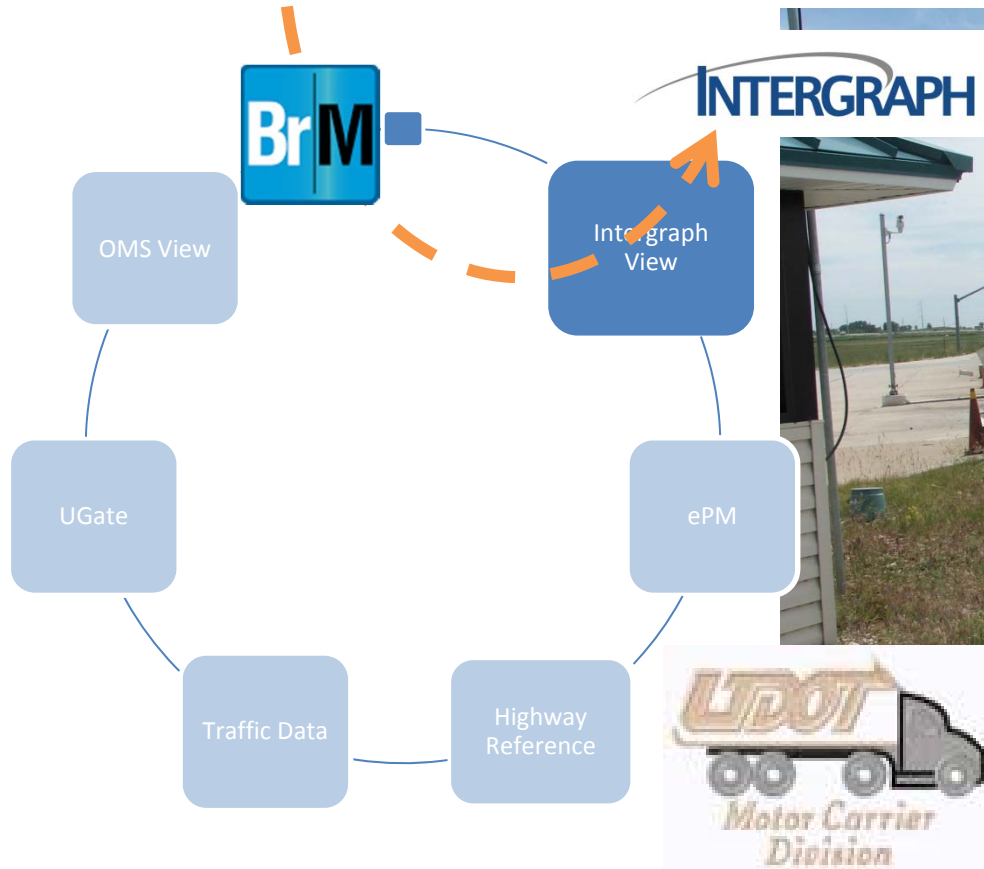
Type 2:

Type 3:

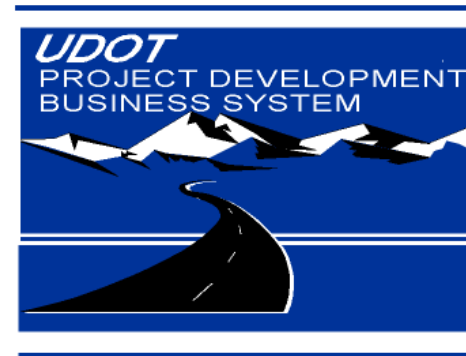
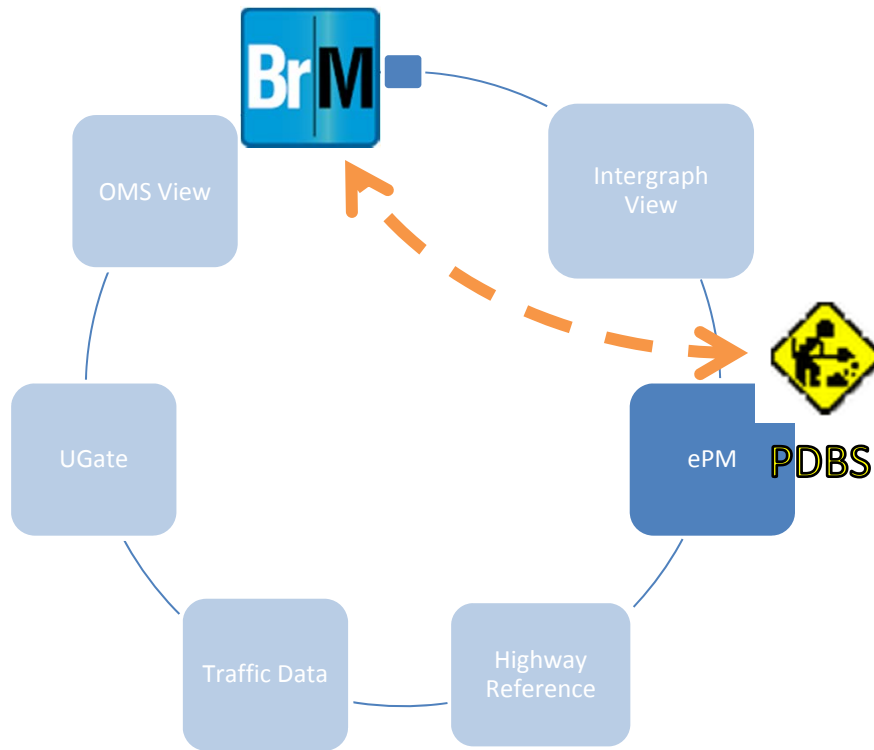
Save Save & Close Cancel Delete Instruction



Clearance & Load Rating



Project Information



Zachary Boyle

UDOT Structures Database Manager

zboyle@utah.gov video chat, gchat, email
801-450-9716 Cell # and text

