WILSON COUNTY

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BRIDGE MAINTENANCE RECOMMENDATIONS

COUNTY: WILSON
LOCATION: 95-SR109-03.96-R
CO. SEQ.: 1 SPEC. CASE: 0

Tennessee Department of Transportation

CROSSING: SR 109 / I40
FED. BRIDGE NO.: 95I00400015
MAINT. DIST.: 95

REPAIR LIST NO.: N
DATE ADDED:
REVISED: 02/19/2010

FACILITY CARRIED:	FAP 109	NUMBER OF MAIN SPANS:	2
HIGHWAY SYSTEM:	21-STP URBAN, STATE SYS.	NUMBER OF APPROACH SPANS:	0
BRIDGE WIDTH (CURB TO CURB):	62 FT 0 IN	BRIDGE LENGTH (FT):	257
BRIDGE WIDTH (OUT TO OUT):	63 FT 11 IN	MAXIMUM SPAN LENGTH (FT):	135
APPROACH ROADWAY (W/SHOULDERS):	62 FT 0 IN	SKEW ANGLE (DEGREES):	72

MAINTAINED BY:	STATE HIGHWAY AGENCY
MAIN SPAN MATERIAL:	PRESTRESSED CONCRETE CONTINUOUS
MAIN SPAN DESIGN TYPE:	STRINGER/MULTI-BEAM OR GIRDER
APPROACH SPAN MATERIAL:	OTHER OR NOT APPLICABLE
APPROACH SPAN DESIGN TYPE:	OTHER OR NOT APPLICABLE

INSPECTION DATE:	02/19/2010	GENERAL CONDITION:	GOOD
EVALUATION DATE:	03/10/2008	STRUCTURALLY DEFICIENT:	NO
PPRM PIN NUMBER:			
H TRUCK RATING @ INV.:	20 TONS	SUFFICIENCY RATING:	83.0

SUGGESTED ROUTINE MAINTENANCE AND COMMENTS
FILL VOID UNDER A-APPROACH PAVEMENT SLAB
REPAIR P0THOLES AND CRACKS IN PAVEMENT AT A-APPROACH
CLEAN B-APPROACH DRAIN LEFT SIDE

GENERAL COMMENTS:

CLEAN DECK 3/15/07

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

Bridge Condition Coding Form

Revised 02/23/2010

County:	95
Route:	SR109
Special Case:	0
County Sequence:	1
Log Mile:	3.96

Bridge Number: (Includes Item 5A)	95I004000151
Feature Intersected:	SR 109 / I40
Evaluation Status:	OTHER ITEM(S) HAVE BEEN CHANGED

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE
90	LAST INSPECTION DATE	02/19/2010
	EARLIEST DATE OF NEXT REGULAR INSPECTION	12/21/2011
		/ /
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	99 FT. 99 IN.
		FT. IN.
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	99 FT. 99 IN.
		FT. IN.
36	TRAFFIC SAFETY FEATURES	

Br. Rail	Trans.	Appr. Rail	Terminal	SPEED LIMIT
1	1	1	1	45

41	STRC OPEN/CLOSED/POSTED A K P	A
58	DECK	8
59	SUPERSTRUCTURE	8
60	SUBSTRUCTURE	8
61	CHANL/CHANL PROTECTION	N
62	CULVERT AND RETAIN WALL	N
71	WATERWAY ADEQUACY	N
72	APPROACH RDWY ALIGNMENT	8
521	OVERALL CONDITION	GOOD

16 LATITUDE	17 LONGITUDE
N 36° 11.0830′	W 86° 24.4270′

Gilbert W Hunter

Digitally signed by Gilbert W Hunter
DN: cn=Gilbert W Hunter, c=US, o=TDOT, ou=Bridge Inspection
Date: 2010.02.24 13:09:27 -06'00'

TEAM LEADER SIGNATURE

/ /
REVIEW DATE

CONDITION CODING GUIDELINES

(Values for Coding Items 58, 59, 60 and 62)

- N NOT APPLICABLE
- 9 EXCELLENT CONDITION
- 8 VERY GOOD CONDITION - NO PROBLEMS NOTED.
- 7 GOOD CONDITION - SOME MINOR PROBLEMS.
- 6 SATISFACTORY CONDITION - MINOR DETERIORATION OF STRUCTURAL ELEMENTS.
- 5 FAIR CONDITION - ALL PRIMARY STRUCTURAL ELEMENTS ARE SOUND BUT MAY HAVE MINOR SECTION LOSS, CRACKING, SPALLING OR SCOUR.
- 4 POOR CONDITION - ADVANCED SECTION LOSS, DETERIORATION, SPALLING OR SCOUR.
- 3 SERIOUS CONDITION - LOSS OF SECTION, DETERIORATION, SPALLING OR SCOUR HAVE SERIOUSLY AFFECTED PRIMARY STRUCTURAL COMPONENTS. LOCAL FAILURES ARE POSSIBLE. FATIGUE CRACKS IN STEEL OR SHEAR CRACKS IN CONCRETE MAY BE PRESENT.
- 2 CRITICAL CONDITION - ADVANCED DETERIORATION OF PRIMARY STRUCTURAL ELEMENTS. FATIGUE CRACKS IN STEEL OR SHEAR CRACKS IN CONCRETE MAY BE PRESENT OR SCOUR MAY HAVE REMOVED SUBSTRUCTURE SUPPORT. UNLESS CLOSELY MONITORED IT MAY BE NECESSARY TO CLOSE THE BRIDGE UNTIL CORRECTIVE ACTION IS TAKEN.
- 1 "IMMINENT" FAILURE CONDITION - MAJOR DETERIORATION OR SECTION LOSS PRESENT IN CRITICAL STRUCTURAL COMPONENTS OR OBVIOUS VERTICAL OR HORIZONTAL MOVEMENT AFFECTING STRUCTURAL STABILITY. BRIDGE IS CLOSED TO TRAFFIC BUT CORRECTIVE ACTION MAY PUT IT BACK IN LIGHT SERVICE.
- 0 FAILED CONDITION - OUT OF SERVICE AND BEYOND CORRECTIVE ACTION.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

Underpass Condition Coding Form

Revised 02/23/2010

County: 95

Route: I0040

Special Case: 0

County Sequence: 1

Log Mile: 9.10

Bridge Number: (Includes Item 5A) 95I004000152

Feature Intersected: SR 109 / I40

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE
90	LAST INSPECTION DATE	02/19/2010
	EARLIEST DATE OF NEXT REGULAR INSPECTION	12/21/2011
		/ /
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	16 FT. 6 IN.
		FT. IN.
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	16 FT. 6 IN.
		FT. IN.
47	TOTAL HORIZONTAL UNDERCLEARANCE	62 FT. 4 IN.
		FT. IN.
54	MINIMUM VERTICAL UNDERCLEARANCE (EXCLUDES SHOULDERS) Circle One: H R	FT. IN.
55	MINIMUM LATERAL UNDERCLEARANCE ON RIGHT SIDE Circle One: H R	FT. IN.
56	MINIMUM LATERAL UNDERCLEARANCE ON LEFT SIDE	FT. IN.
521	OVERALL CONDITION	GOOD

UNDERPASS SAFETY FEATURES

515 (A) TYPE UNDERPASS BARRIER
METAL BARRIER OR RAIL

Revised Barrier Type

(B) ADEQUACY OF BARRIER OR RAIL 1

(C) ADEQUACY OF TRANSITIONS 1

(D) ADEQUACY OF TERMINALS 1

554 VERTICAL CLEARANCE LISTED ON HEIGHT POSTING

FT. IN.

FT. IN.

16 LATITUDE N 36° 11.0000′

17 LONGITUDE W 86° 24.5000′

HEIGHT POSTED AT BOTH APPROACHES? YES [ ] NO [ ] N/A [ ]

555 COMMENTS

TEAM LEADER SIGNATURE

/ / REVIEW DATE

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Photographs

Bridge ID#: 95-109-3.97R **Date: 02/19/2010**

BRIDGE NO.

ABUTMENT-1-TYPICAL

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Photographs

Bridge ID#: 95-109-3.97 R **Date: 02/19/2010**

BENT

BOTTOM DECK VIEW SPAN-1-TYPICAL

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Photographs

Bridge ID#: 95-109-3.97 R **Date: 02/19/2010**

A-APPROACH EAST BOUND LANE

A-APPROACH WEST BOUND LANE

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Photographs

Bridge ID#: 95-109-3.97 R **Date: 02/19/2010**

B-APPROACH WEST BOUND LANE

B-APPROACH EAST BOUND LANE

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Photographs

Bridge ID#: 95-109-3.97 R **Date: 02/19/2010**

RIGHT SIDE ELEVATION

B-APPROACH

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Photographs

Bridge ID#: 95-109-3.97 R **Date: 02/19/2010**

A-APPROACH

VIEW ACROSS DECK

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Photographs

Bridge ID#: 95-109-3.97 R **Date: 02/19/2010**

POTHOLE @ A-APPROACH SLAB JOINT

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BRIDGE INSPECTION REPORT

Page No.___

Form BIR 3.0
(Rev. 9-22-98)
DT-0069

Field Report No. 07 Date 2/19/2010
Previous Report No. 06 Date 2/25/2008
Plans: YES

Bridge No. 95I00400015 (Eleven Digit No.)
Bridge Location No. 95 - SR109 - 3.97 R (Co. Route Log Mile)

SR109 (Road Name) over SR 109 / I40 (Crossing) ____ (Structure Name (If Named))

Year Constructed 1998 ACT County Wilson Maintenance District 32
Year Widened ____ Year Rehabilitated ____

FEATURES

Wearing Surface CONCRETE Depth ____ (in.)
Flared Width NO Median Width NONE
Navigational Control NO Bridge Skew 72 ° LT
Structure Type (Main Span) BULB T-BEAM
Structure Type (Appr.Spans) ____
No. Main Spans 2 No. Approach Spans ____
Maximum Span Length 135 (**.* ft.)
Total Length 257 (**.* ft.)

INSPECTORS

1. HUNTER
2. DANIEL
3. CRUTCHER
4. WALLER
5. WHEELEY
6. ____
7. ____
8. ____

WIDTHS (*.* ft.)

Deck Out-to-Out 63
Roadway Curb/Curb 59
Roadway Rail/Rail 59
Sidewalk Rt. ____ Lt. ____
*Approach Roadway 48
*(Does Not Include Shoulders)
Approach Shoulder Rt. 8
Lt. 6

CLEARANCES

Min. Vertical Clearance over Deck ____ (ft.-in.)
Min. Vertical Under Clearance 16.6 (ft.-in.)
Min. Lateral Under Clearance Rt. 10 (*.* ft.)
Min. Lateral Under Clearance Lt. 28 (*.* ft.)

FRACTURE CRITICAL: NO
(If Yes, Include BIR 3.9)

NBIS Bridge Length (<25 ft.) > (ft.-in.)

UNDERWATER INSPECTION

To Be Performed By: NONE REQUIRED Date ____

Change in Structural Condition: NO Major Repairs Made: NO BRIDGE is: OPEN

COMMENTS:

Supervising Bridge Inspector: WAYNE HUNTER BRIDGE RATING: GOOD

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Form BIR 3.1
(Rev. 9-22-98)
DT-0080

Page No.___

Bridge Location No. 95 - SR109 - 3.97 R
Co. Route Log Mile

Date 2/19/2010

PERFORMANCE EVALUATION

Time of Day Inspected 11:15 AM Weather Conditions SUNNY 45

Vehicles Observed ALL TYPES

LIVE LOAD BEHAVIOR

	Yes/No	Comments
Substructure		
Horiz./ Vert. Defl.	NO	
Vibration	NO	
Superstructure		
Horiz./ Vert. Defl.	NO	
Vibration	YES	*SLIGHT*

APPROACH

	Rating	Comments
Alignment	GOOD	
Slab	GOOD	*VOID UNDER A-APPROACH SLAB (LENGTH OF SLAB)*
Joints	GOOD	
Pavement	FAIR	*PATCHED POTHOLES AT A-APPROACH*
Embankment	GOOD	
Drains	GOOD	

TRAFFIC SAFETY FEATURES

	Rating	Standard/ SubStandard	Comments
Bridgerailing	GOOD	STANDARD	
Transitions	GOOD	STANDARD	
Guardrail	GOOD	STANDARD	
Guardrail Terminal	GOOD	STANDARD	

SIGNING

	Yes/ No/ Needed
Paddleboards	NO
Vertical Clearance (<14'-6")	NO
Narrow Bridge Signs	NO
One Lane Bridge Signs	NO

Weight Limit Posted NO

Gross..... _____ Tons

2 Axle..... _____ Tons

3 or more Axles.. _____ Tons

Other Signs or Plaques:

Comments Regarding any Problems with Signing:

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Form BIR 3.2
(Rev. 9-22-98)
DT-0081

Page No.___

Bridge Location No. 95 - SR109 - 3.97 R
Co. Route Log Mile

Date 2/19/2010

DECK

	Rating	Comments
Wearing Surface	GOOD	*CONCRETE*
Deck - Structural Condition	GOOD	
Curbs	NONE	
Median	NA	
Sidewalks	NONE	
Parapet	GOOD	
Railing	NONE	
Paint	NONE	
Drains	GOOD	
Lighting Standards	NONE	
Utilities	NONE	
Joint Leakage	NONE	
Expansion Joints	NONE	

SUPERSTRUCTURE

Bearing Devices	GOOD	
Girders or Beams	GOOD	
Floor Beams	NONE	
Stringers	NONE	
Diaphragms	GOOD	
Bracing	NONE	
Trusses - General	NONE	
Portals	NONE	
Bracing	NONE	
Paint	GOOD	
Alignment of Members	GOOD	

TEXTURE COAT

Condition Rating	GOOD	Needs Spot Painting	NO
Overall Appearance	GOOD	Needs Repainting	NO
Staining Rating	GOOD	Comments	
Fading Rating	GOOD		
Scaling Rating	GOOD		

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Form BIR 3.3
(Rev. 9-22-98)
DT-0082

Page No.___

Bridge Location No. 95 - SR109 - 3.97 R
Co. Route Log Mile

Date 2/19/2010

SUBSTRUCTURE

ABUTMENTS

	Rating	Comments
Caps	GOOD	
Breastwall	NONE	
Wings	GOOD	
Backwall	GOOD	
Plumb	GOOD	
Footing	NV	
Piles	NV	
Embankment	GOOD	
Bearing Surface	GOOD	
Slope Paving	NONE	
Rip Rap	GOOD	

PIERS

Caps	NA	
Columns	NA	
Plumb	NA	
Footings	NA	
Piles	NA	
Bearing Surface	NA	

BENTS

Caps	GOOD	
Columns	GOOD	
Plumb	GOOD	
Footings	NV	
Piles	NV	
Bearing Surface	GOOD	

Piles Need Replacement: NO

Piles To Be Replaced:

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INSPECTION REPORT FOR UNDERPASS ROUTE

Page No.___

Form BIR 3.0A
(Rev. 9-22-98)
DT-1443

Field Report No. 07 Date 2/19/2010
Previous Report No. 06 Date 2/25/2008

Bridge No. 95I00400015 (Eleven Digit No.)

Underpass Location No. 95 - I 40 - 9.10 W (Co. Route Log Mile)

___ (Railroad/Walkway) or 95 - SR109 - 0397 R (Co. Route Log Mile) over 95 - I 40 - 9.10 W (Co. Route Log Mile)

County Wilson

Structure Name (If Named) ___

Year Constructed 1998 ACT

Year Widened ___ Year Rehabilitated ___

GEOMETRIC FEATURES UNDER BRIDGE

(.* ft. unless otherwise noted)*

Divided Highway LEFT LANE/W.B.L

Type of Wearing Surface ASPHALT

Width of Approach Traveled Roadway 24 ft. (Does Not Include Shoulders)

Width of Median if Divided Highway 22 ft.

Approach Shoulder Width 11 ft. Right 5 ft. Left

*Horizontal Clearance Under Bridge 79 ft.

*Distance Between Pier Protection Guardrail and Substructure 0 ft. Right 4 ft. Left

*Width of Sidewalk Under Bridge 0 ft. Right 0 ft. Left

*Minimum Vertical Clearance: 16 ft. 6 in. (ft.-in.)

*Show on Sketch

INSPECTORS

1. DANIEL
2. WHEELEY
3.
4.
5.
6.

TRAFFIC SAFETY FEATURES

	Rating	Standard/ SubStandard Non Exist
Pier Protection Railing or Parapet	GOOD	STANDARD
Approach Guardrail Terminals	GOOD	STANDARD
Approach Guardrail	GOOD	STANDARD
Approach Guardrail Terminal	GOOD	STANDARD

SIGNING

	Yes/ No/ Needed
Paddleboards	NO
Vertical Clearance (<14'-6")	NO
Narrow Passage	NO
One Lane Passage	NO
Other Underpass Signs Needed	

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Page No.___

Form BIR 3.0A (Continued)
(Rev. 9-22-98)
DT-1443

Date 2/19/2010

Underpass Location No. 95 - I 40 - 9.10 W
Co. Route Log Mile

Other Signs or Plaques:

Comments Regarding any
Problems with Signing:

BRIDGE FEATURES *(*.* ft.)*

Bridge Skew 72 ° LT

Number of Lanes/Tracks on Bridge 3

Structure Type (Main Span) BULB T-BEAM

No. Main Spans 2

Structure Type (Appr.Spans)

No. Appr. Spans

Maximum Span Length 135 (ft.)

Total Length 257 (ft.)

Width of Bridge Out-to-Out 63 (ft.)

Right Angle to Centerline of Bridge)

Width of Bridge Along Skew (ft.)

(If Unable to Measure at Right
Angle to Centerline of Bridge)

BRIDGE CONDITION: **GOOD**

Does Potential Exist for Elements from Bridge Falling on Roadway Beneath? NO

Does Potential Exist Because of Deteriorated Condition or Failure of Major Members? NO

Comment on any Conditions of Bridge that would Effect Roadway Beneath:

Note: If Underpass Route is Divided Highway, Use Two of These Forms, One for Each Roadway.

MINIMUM PICTURES REQUIRED

1. Elevation View of Bridge on Both Sides Showing Underpass
2. View Showing Both Approaches to Bridge
3. View Showing Safety Features
4. View Showing Any Problems

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INSPECTION REPORT FOR UNDERPASS ROUTE

Page No.___

Form BIR 3.0A
(Rev. 9-22-98)
DT-1443

Field Report No. 07 Date 2/19/2010
Previous Report No. 06 Date 2/25/2008

Bridge No. 95I00400015 (Eleven Digit No.)

Underpass Location No. 95 - I40 - 9.10 E (Co. Route Log Mile)

Railroad/Walkway _____ or 95 - SR109 - 0397 R (Co. Route Log Mile) over 95 - I40 - 9.10 E (Co. Route Log Mile)

County Wilson

Structure Name (If Named) _____

Year Constructed 1998 ACT

Year Widened _____ Year Rehabilitated _____

GEOMETRIC FEATURES UNDER BRIDGE

(.* ft. unless otherwise noted)*

Divided Highway RIGHT/E.B.L.

Type of Wearing Surface ASPHALT

Width of Approach Traveled Roadway 36.0 ft. (Does Not Include Shoulders)

Width of Median if Divided Highway 22 ft.

Approach Shoulder Width 10 ft. Right 4 ft. Left

*Horizontal Clearance Under Bridge 74 ft.

*Distance Between Pier Protection Guardrail and Substructure 0 ft. Right 4 ft. Left

*Width of Sidewalk Under Bridge _____ ft. Right _____ ft. Left

*Minimum Vertical Clearance: 19 ft. 1 in. (ft.-in.)

*Show on Sketch

INSPECTORS

1. DANIEL
2. WHEELEY
3.
4.
5.
6.

TRAFFIC SAFETY FEATURES

	Rating	Standard/ SubStandard Non Exist
Pier Protection Railing or Parapet	GOOD	STANDARD
Approach Guardrail Terminals	GOOD	STANDARD
Approach Guardrail	GOOD	STANDARD
Approach Guardrail Terminal	GOOD	STANDARD

SIGNING

	Yes/ No/ Needed
Paddleboards	NO
Vertical Clearance (<14'-6")	NO
Narrow Passage	NO
One Lane Passage	NO
Other Underpass Signs Needed	

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Page No.___

Form BIR 3.0A (Continued)
(Rev. 9-22-98)
DT-1443

Date 2/19/2010

Underpass Location No. 95 - I40 - 9.10 E
Co. Route Log Mile

Other Signs or Plaques:

Comments Regarding any
Problems with Signing:

BRIDGE FEATURES *(*.* ft.)*

Bridge Skew 72 ° LT

Number of Lanes/Tracks on Bridge 3

Structure Type (Main Span) BULB T-BEAM

No. Main Spans 2

Structure Type (Appr.Spans)

No. Appr. Spans

Maximum Span Length 135 (ft.)

Total Length 257 (ft.)

Width of Bridge Out-to-Out 63 (ft.)

Right Angle to Centerline of Bridge)

Width of Bridge Along Skew (ft.)

(If Unable to Measure at Right
Angle to Centerline of Bridge)

BRIDGE CONDITION: **GOOD**

Does Potential Exist for Elements from Bridge Falling on Roadway Beneath? NO

Does Potential Exist Because of Deteriorated Condition or Failure of Major Members? NO

Comment on any Conditions of Bridge that would Effect Roadway Beneath:

Note: If Underpass Route is Divided Highway, Use Two of These Forms, One for Each Roadway.

MINIMUM PICTURES REQUIRED

1. Elevation View of Bridge on Both Sides Showing Underpass
2. View Showing Both Approaches to Bridge
3. View Showing Safety Features
4. View Showing Any Problems

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SUMMARY
95-SR109-3.97 RT.
2/19/2010

SR109/I40
2 Span/Bulb T-Beam

This bridge was inspected and found to be in **good** condition. The approach alignment and areas are in good condition. There is a void under A-approach slab (length of slab). The approach guardrail and bridge rail are standard type in good condition. Paddleboard decals are on the terminals.

The wearing surface is concrete and in good condition. The parapet and drains are good. There are no expansion joints. The bearing devices are good along with all superstructure elements and sub-structure units. There are some light hair cracks on the wings. The bottom deck is non-visible due to in-place corroforms. Texture coat is in good condition.

Gilbert Hunter

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CLEARANCE SKETCH

Date 2/19/2010

Bridge Location No. 95 (County) SR109 (Route) 3.97 RT (Log Mile)

95-SR109-3.97 RT

95-I40-9.08

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Top of Deck Span No. 1

Date 2/19/2010

Bridge Location No. 95 (County) SR109 (Route) 3.97 RT (Log Mile)

DECK	GOOD	RANDOM HAIR CRACK
PARAPET	G0OD	RANDOM HAIR CRACK
DRAINS	GOOD	

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Top of Deck Span No. 2

Date 2/19/2010

Bridge Location No. 95 (County) SR109 (Route) 3.97 RT (Log Mile)

DECK	GOOD	RANDOM HAIR CRACK
PARAPET	G0OD	RANDOM HAIR CRACK
DRAINS	GOOD	

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Bottom of Slab Span No. 1

Date 2/19/2010

Bridge Location No. 95 (County) SR109 (Route) 3.97 RT (Log Mile)

DECK	GOOD	C.M. DECKING
DIAPHRAGMS	GOOD	
BEAMS	GOOD	

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Bottom of Slab Span No. 2

Date 2/19/2010

Bridge Location No. 95 (County) SR109 (Route) 3.97 RT (Log Mile)

DECK	GOOD	
DIAPHRAGMS	GOOD	
BEAMS	GOOD	

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Abutment No. 1

Date 2/19/2010

Bridge Location No. 95 (County) SR109 (Route) 3.97 RT (Log Mile)

BACKWALL	GOOD	
CAP	GOOD	
WINGS	GOOD	HAIR CRACK
BEARINGS	GOOD	

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BENT # 1

Date 2/19/2010

Bridge Location No. 95 (County) SR109 (Route) 3.97 RT (Log Mile)

CAP	GOOD	
COLUMN	GOOD	
FOOTING	GOOD	
BEARINGS	GOOD	

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Abutment No. 2

Date 2/19/2010

Bridge Location No. 95 (County) SR109 (Route) 3.97 RT (Log Mile)

BACKWALL	GOOD	
CAP	GOOD	
WINGS	GOOD	HC
BEARINGS	GOOD	

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