WILSON COUNTY

BRIDGE MAINTENANCE RECOMMENDATIONS

COUNTY: WILSON
LOCATION: 95-SR171-04.79-
CO. SEQ.: 1 SPEC. CASE: 0

Tennessee Department of Transportation

CROSSING: MT. JULIET RD./ I40
FED. BRIDGE NO.: 95I00400003
MAINT. DIST.: 95

REPAIR LIST NO.: N
DATE ADDED:
REVISED: 02/17/2010

FACILITY CARRIED:	FAS 171	NUMBER OF MAIN SPANS:	4
HIGHWAY SYSTEM:	21-STP URBAN, STATE SYS.	NUMBER OF APPROACH SPANS:	0
BRIDGE WIDTH (CURB TO CURB):	83 FT 11 IN	BRIDGE LENGTH (FT):	249
BRIDGE WIDTH (OUT TO OUT):	85 FT 11 IN	MAXIMUM SPAN LENGTH (FT):	77
APPROACH ROADWAY (W/SHOULDERS):	82 FT 0 IN	SKEW ANGLE (DEGREES):	80

MAINTAINED BY:	STATE HIGHWAY AGENCY
MAIN SPAN MATERIAL:	CONCRETE CONTINUOUS
MAIN SPAN DESIGN TYPE:	TEE BEAM
APPROACH SPAN MATERIAL:	OTHER OR NOT APPLICABLE
APPROACH SPAN DESIGN TYPE:	OTHER OR NOT APPLICABLE

INSPECTION DATE:	02/17/2010	GENERAL CONDITION:	GOOD
EVALUATION DATE:	03/07/2008	STRUCTURALLY DEFICIENT:	NO
PPRM PIN NUMBER:			
H TRUCK RATING @ INV.:	20 TONS	SUFFICIENCY RATING:	92.9

GENERAL COMMENTS:

REPAIR UNDERPASS APPROACH RAIL TERMINAL RIGHT SIDE W.B.L. CLEAN AND REPAIR APPROACH JOINT "B" APPROACH

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

Bridge Condition Coding Form

Revised 02/18/2010

County:	95
Route:	SR171
Special Case:	0
County Sequence:	1
Log Mile:	4.79

Bridge Number: (Includes Item 5A)	95I004000031
Feature Intersected:	MT. JULIET RD./ I40
Evaluation Status:	OTHER ITEM(S) HAVE BEEN CHANGED

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE
90	LAST INSPECTION DATE	02/17/2010
	EARLIEST DATE OF NEXT REGULAR INSPECTION	12/19/2011
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: 1	
	Trans.: 1	
	Appr. Rail: 1	
	Terminal: 0	
	SPEED LIMIT: 45	
41	STRC OPEN/CLOSED/POSTED	A
	A K P	
58	DECK	8
59	SUPERSTRUCTURE	7
60	SUBSTRUCTURE	7
61	CHANL/CHANL PROTECTION	8
62	CULVERT AND RETAIN WALL	N
71	WATERWAY ADEQUACY	N
72	APPROACH RDWY ALIGNMENT	8
521	OVERALL CONDITION	GOOD

16 LATITUDE N 36° 10.2710′

17 LONGITUDE W 86° 30.7860′

Gilbert W Hunter

Digitally signed by Gilbert W Hunter
DN: cn=Gilbert W Hunter, c=US, o=TDOT, ou=Bridge Inspection
Date: 2010.02.18 08:44:40 -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.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

Underpass Condition Coding Form

Revised 02/18/2010

County:	95
Route:	I0040
Special Case:	0
County Sequence:	1
Log Mile:	3.12

Bridge Number: (Includes Item 5A) 95I004000032

Feature Intersected: SR 171 / I40

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE
90	LAST INSPECTION DATE	02/17/2010
	EARLIEST DATE OF NEXT REGULAR INSPECTION	12/19/2011
		/ /
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	16 FT. 3 IN.
		FT. IN.
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	16 FT. 3 IN.
		FT. IN.
47	TOTAL HORIZONTAL UNDERCLEARANCE	63 FT. 0 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° 10.2000′
17 LONGITUDE W 86° 30.8000′

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

555 COMMENTS

TEAM LEADER SIGNATURE

/ / REVIEW DATE

Photographs

Bridge ID#: 95-171-4.79 **Date: 02/17/2010**

ABUTMENT-1

BRIDGE NO.

Photographs

Bridge ID#: 95-171-4.79 **Date: 02/17/2010**

RETAINING WALL AT ABUTMENT-1

BENT-2-TYPICAL

Photographs

Bridge ID#: 95-171-4.79 **Date: 02/17/2010**

BOTTOM DECK VIEW SAPN-2-TYPICAL

A-APPROACH EAST BOUND LANE

Photographs

Bridge ID#: 95-171-4.79 **Date: 02/17/2010**

A-APPROACH EAST BOUND EXIT RAMP

A-APPROACH WEST BOUND LANE

Photographs

Bridge ID#: 95-171-4.79 **Date: 02/17/2010**

B-APPROACH WEST BOUND LANE

B-APPROACH EAST BOUND LANE

Photographs

Bridge ID#: 95-171-4.79 **Date: 02/17/2010**

B-APPROACH EXIT RAMP

VIEW ACROSS DECK

Photographs

Bridge ID#: 95-171-4.79 **Date: 02/17/2010**

A-APPROACH

B-APPROACH

Photographs

Bridge ID#: 95-171-4.79 **Date: 02/17/2010**

JOINT AT B-APPROACH

SPALL @ BACKWALL BTWN BEAM-D & F ABUT-2-TYP

Photographs

Bridge ID#: 95-171-4.79 **Date: 02/17/2010**

ABUTMENT-2 BEAM-D TYPICAL

ABUTMENT-2

Photographs

Bridge ID#: 95-171-4.79 **Date: 02/17/2010**

DAMAGED GUARDRAIL B-APPROACH WEST BOUND LANE

RIGHT SIDE ELEVATION

BRIDGE INSPECTION REPORT

Page No.___

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

Field Report No. 19 Date 2/17/2010
Previous Report No. 18 Date 2/20/2008
Plans: YES

Bridge No. 95I00400003 (Eleven Digit No.)
Bridge Location No. 95 - SR171 - 4.79 (Co. Route Log Mile)

SR 171 (Road Name) over MT. JULIET RD./ I40 * (Crossing)
(Structure Name (If Named))

Year Constructed 1963 ACT County Wilson Maintenance District 32
Year Widened 1986 ACT Year Rehabilitated

FEATURES

Wearing Surface CONCRETE Depth ____ (in.)
Flared Width NO Median Width NONE
Navigational Control NO Bridge Skew 80 ° RT
Structure Type (Main Span) CDG
Structure Type (Appr.Spans)
No. Main Spans 4 No. Approach Spans
Maximum Span Length 77.0' (**.* ft.)
Total Length 249' (**.* ft.)

INSPECTORS

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

WIDTHS (*.* ft.)

Deck Out-to-Out 86
Roadway Curb/Curb 82.6
Roadway Rail/Rail 82..6
Sidewalk Rt. ____ Lt. ____
*Approach Roadway 55
*(Does Not Include Shoulders)
Approach Shoulder Rt. 10
Lt. 10

CLEARANCES

Min. Vertical Clearance over Deck NA (ft.-in.)
Min. Vertical Under Clearance 16.3 (ft.-in.)
Min. Lateral Under Clearance Rt. 17.6 (*.* ft.)
Min. Lateral Under Clearance Lt. 8.6 (*.* 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**

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

Page No.___

Bridge Location No. 95 - SR171 - 4.79 (Co. - Route - Log Mile)

Date 2/17/2010

PERFORMANCE EVALUATION

Time of Day Inspected 10:00 AM Weather Conditions SUNNY 32

Vehicles Observed ALL TYPES

LIVE LOAD BEHAVIOR

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

APPROACH

	Rating	Comments
Alignment	GOOD	
Slab	GOOD	
Joints	GOOD	
Pavement	GOOD	
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:

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

Page No.___

Bridge Location No. 95 - SR171 - 4.79
Co. Route Log Mile

Date 2/17/2010

DECK

	Rating	Comments
Wearing Surface	GOOD	
Deck - Structural Condition	GOOD	*THERE ARE RANDOM TRANSVERSE HAIRCRACKS IN ALL SPANS*
Curbs	NA	
Median	NA	
Sidewalks	NA	
Parapet	GOOD	
Railing	NA	
Paint	NONE	
Drains	NONE	
Lighting Standards	NONE	
Utilities	GOOD	
Joint Leakage	GOOD	
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	NONE	
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		

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

Page No.___

Bridge Location No. 95 - SR171 - 4.79
Co. Route Log Mile

Date 2/17/2010

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	GOOD	
Rip Rap	NONE	

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:

INSPECTION REPORT FOR UNDERPASS ROUTE

Page No.___

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

Field Report No. 19 Date 2/17/2010
Previous Report No. 18 Date 2/20/2008

Bridge No. 95I00400003 (Eleven Digit No.)

Underpass Location No. 95 - I40 - 3.11 EB (Co. Route Log Mile)

Railroad/Walkway or 95 - SR171 - 0479 (Co. Route Log Mile) over 95 - I40 - 3.11 EB (Co. Route Log Mile)

County Wilson

Structure Name (If Named) _____

Year Constructed 1963 ACT

Year Widened 1986 ACT

Year Rehabilitated _____

GEOMETRIC FEATURES UNDER BRIDGE

(.* ft. unless otherwise noted)*

Divided Highway RIGHT

Type of Wearing Surface ASPHALT

Width of Approach Traveled Roadway 36 ft. (Does Not Include Shoulders)

Width of Median if Divided Highway _____ ft.

Approach Shoulder Width 18.5 ft. Right 8.5 ft. Left

*Horizontal Clearance Under Bridge 63.0 ft.

*Distance Between Pier Protection Guardrail and Substructure 1.6 ft. Right 1.6 ft. Left

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

*Minimum Vertical Clearance: 16 ft. 3 in. (ft.-in.)

*Show on Sketch

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

INSPECTORS

1. HUNTER
2. WALLER
3. CRUTCHER
4. HALLIBURTON
5. DANIEL
6. WHEELEY

SIGNING

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

Page No.___

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

Date 2/17/2010

Underpass Location No. 95 - I40 - 3.11 EB
Co. Route Log Mile

Other Signs or Plaques:

Comments Regarding any
Problems with Signing:

BRIDGE FEATURES *(*.* ft.)*

Bridge Skew 80 ° RT

Number of Lanes/Tracks on Bridge 5

Structure Type (Main Span) CDG

No. Main Spans 4

Structure Type (Appr.Spans)

No. Appr. Spans

Maximum Span Length 77.0' (ft.)

Total Length 249' (ft.)

Width of Bridge Out-to-Out 86 (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

INSPECTION REPORT FOR UNDERPASS ROUTE

Page No.___

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

Field Report No. 19 Date 2/17/2010
Previous Report No. 18 Date 2/20/2008

Bridge No. 95I00400003 (Eleven Digit No.)

Underpass Location No. 95 - I40 - 3.11 W (Co. Route Log Mile)

Railroad/Walkway _____ or 95 - SR171 - 0479 (Co. Route Log Mile) over 95 - I40 - 3.11 W (Co. Route Log Mile)

County Wilson

Structure Name (If Named) _____

Year Constructed 1963 ACT

Year Widened 1986 ACT

Year Rehabilitated _____

GEOMETRIC FEATURES UNDER BRIDGE

(.* ft. unless otherwise noted)*

Divided Highway LEFT

Type of Wearing Surface ASPHALT

Width of Approach Traveled Roadway 36 ft. (Does Not Include Shoulders)

Width of Median if Divided Highway _____ ft.

Approach Shoulder Width 19.6 ft. Right 9.5' ft. Left

*Horizontal Clearance Under Bridge 62 ft.

*Distance Between Pier Protection Guardrail and Substructure 5.6 ft. Right 1.6 ft. Left

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

*Minimum Vertical Clearance: 18 ft. 8 in. (ft.-in.)

*Show on Sketch

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

INSPECTORS

1. HUNTER
2. WALLER
3. CRUTCHER
4. HALLIBURTON
5. DANIEL
6. WHEELEY

SIGNING

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

Page No.___

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

Date 2/17/2010

Underpass Location No. 95 - I40 - 3.11 W
Co. Route Log Mile

Other Signs or Plaques:

Comments Regarding any
Problems with Signing:

BRIDGE FEATURES *(*.* ft.)*

Bridge Skew 80 ° RT

Number of Lanes/Tracks on Bridge 5

Structure Type (Main Span) CDG

No. Main Spans 4

Structure Type (Appr.Spans)

No. Appr. Spans

Maximum Span Length 77.0' (ft.)

Total Length 249' (ft.)

Width of Bridge Out-to-Out 86 (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

INSPECTION REPORT FOR UNDERPASS ROUTE

Page No.___

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

Field Report No. 19 Date 2·17·2010
Previous Report No. 18 Date 2·20·2008

Bridge No. 95I00400003
Eleven Digit No.

Underpass Location No. 95 - I40 - 3.11 (Ramp "E")
Co. Route Log Mile

_____ or 95 - SR171 - 4.79 over ___ - ___ - ___
Railroad/Walkway Co. Route Log Mile Co. Route Log Mile

County Wilson

Structure Name (If Named) _____

Year Constructed 1963

Year Widened 1986

Year Rehabilitated _____

GEOMETRIC FEATURES UNDER BRIDGE

(.* ft. unless otherwise noted)*

Divided Highway Ramp

Type of Wearing Surface Concrete

Width of Approach Traveled Roadway 24.0 ft. (Does Not Include Shoulders)

Width of Median if Divided Highway _____ ft.

Approach Shoulder Width 10.0 ft. Right 5.0 ft. Left

*Horizontal Clearance Under Bridge 38.0' ft.

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

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

*Minimum Vertical Clearance: 17 ft. 7 in. (ft.-in.)

*Show on Sketch

TRAFFIC SAFETY FEATURES

	Rating	Standard/ SubStandard Non Exist
Pier Protection Railing or Parapet	G	standard
Approach Guardrail Terminals	G	"
Approach Guardrail	G	"
Approach Guardrail Terminal	G	"

INSPECTORS

1. Hunter
2. Walker
3. Courtelow
4. Daniel
5. Halliburton
6. Wheeley

SIGNING

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

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

Page No.___

Date 2·17·2010

Underpass Location No. 95 - I40 - 3.11 Ramp "E"
Co. Route Log Mile

Other Signs or Plaques:

Comments Regarding any Problems with Signing:

BRIDGE FEATURES *(*.* ft.)*

Bridge Skew 80° Rt

Number of Lanes/Tracks on Bridge 5

Structure Type (Main Span) CDG

No. Main Spans 4

Structure Type (Appr.Spans) _____

No. Appr. Spans _____

Maximum Span Length 77.0' (ft.)

Total Length 249.0 (ft.)

Width of Bridge Out-to-Out 86.0 (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

SUMMARY
95-SR171-4.79
2/17/2010

Mt. Juliet Rd/I40-3.11
4 Span/C.D.G.

This bridge was inspected and found to be in **good** condition. The approach and approach alignment are in good condition. The approach guardrail and bridge rail are standard type and in good condition. There are no paddleboards.

The wearing surface and top deck areas are in good condition except for some debris build-up in the expansion joints. The deck also has hairline transverse cracks at random in each span. The open type joint is up to 3" open at the "B" end. The bearings show light corrosion over the abutments, but in good condition. All other superstructure elements are good along with all substructure units.

Wayne Hunter

CLEARANCE SKETCH

Date 2/17/10

Bridge Location No. 95 (County) SR 171 (Route) 4.79 (Log Mile)

Top of Deck Span No. 1

Date 2/17/2010

Bridge Location No. 95 (County) SR171 (Route) 4.79 (Log Mile)

DECK	GOOD	RANDOM TRANSVERSE HAIRLINE CRACKS
PARA	GOOD	
DRAINS	NONE	
JOINTS	NONE	

Top of Deck Span No. 2

Date 2/17/2010

Bridge Location No. 95 (County) SR171 (Route) 4.79 (Log Mile)

DECK	GOOD	RANDOM TRANSVERSE HAIRLINE CRACKS
PARA	GOOD	
DRAINS	NONE	
JOINTS	NONE	

Top of Deck Span No. 3

Date 2/17/2010

Bridge Location No. 95 (County) SR171 (Route) 4.79 (Log Mile)

DECK	GOOD	RANDOM TRANSVERSE HAIRLINE CRACKS
PARA	GOOD	
DRAINS	NONE	
JOINTS	NONE	

Top of Deck Span No. 4

Date 2/17/2010

Bridge Location No. 95 (County) SR171 (Route) 4.79 (Log Mile)

DECK	GOOD	RANDOM TRANSVERSE HAIR CRACKS
PARA	GOOD	
DRAINS	NONE	
JOINTS	NONE	

Bottom of Slab Span No. 1

Date 2/17/2010

Bridge Location No. 95 (County) SR171 (Route) 4.79 (Log Mile)

DECK	GOOD	RANDOM HAIR CRACKS WITH LEACH TYPICAL ALL SPANS
DIAPHRAGMS	GOOD	
BEAMS	GOOD	HAIR CRACK
		(1) BREAKOUT 14"L X 8"H X UP TO 3" DEEP

Bottom of Slab Span No. 2

Date 2/17/2010

Bridge Location No. 95 (County) SR171 (Route) 4.79 (Log Mile)

DECK	GOOD	SEE SLAB 1
DIAPHRAGMS	GOOD	
BEAMS	GOOD	

Bottom of Slab Span No. 3

Date 2/17/2010

Bridge Location No. 95 (County) SR171 (Route) 4.79 (Log Mile)

DECK	GOOD	SEE SLAB 1
DIAPHRAGMS	GOOD	
BEAMS	GOOD	FEW STIRRUP CRACKS BEAM-H

Bottom of Slab Span No. 4

Date 2/17/2010

Bridge Location No. 95 (County) SR171 (Route) 4.79 (Log Mile)

DECK	GOOD	SEE SLAB 1
DIAPHRAGMS	GOOD	
BEAMS	GOOD	

Abutment No. 1

Date 2/17/2010

Bridge Location No. 95 (County) SR171 (Route) 4.79 (Log Mile)

BACKWALL	GOOD	
CAP	GOOD	
WINGS	GOOD	
BEARINGS	GOOD	LIGHT TO MODERATE CORROSION

BENT # 1

Date 2/17/2010

Bridge Location No. 95 (County) SR171 (Route) 4.79 (Log Mile)

FRONT

BACK

CAP	GOOD	(1) MINOR BREAKOUTS 3"W X 5"H X 1"DEEP
		(2) 1/16 VERTICAL CRACK AT JOINT
COLUMNS	GOOD	(3) BREAKOUT 2'H X 8"W X UP TO 2" DEEP
FOOTING	NV	
BEARINGS	GOOD	

BENT # 2

Date 2/17/2010

Bridge Location No. 95 (County) SR171 (Route) 4.79 (Log Mile)

FRONT

BACK

CAP	GOOD	
COLUMNS	GOOD	
FOOTING	NV	
BEARINGS	GOOD	LIGHT TO MODERATE CORRSION

BENT # 3

Date 2/17/2010

Bridge Location No. 95 (County) SR171 (Route) 4.79 (Log Mile)

FRONT

(1)

BACK

CAP	GOOD	(1) VERTICAL HAIR CRACK LEADING INTO JOINT
COLUMNS	GOOD	
FOOTING	NV	
BEARINGS	GOOD	LIGHT TO MODERATE CORROSION

Abutment No. 2

Date 2/17/2010

Bridge Location No. 95 (County) SR171 (Route) 4.79 (Log Mile)

BACKWALL	GOOD	SEVERAL AREAS OF MINOR DELAM (20% OF BACKWALL)
		WITH REBAR EXPOSED UP TO 1" DEEP
CAP	GOOD	
WINGS	GOOD	
BEARINGS	GOOD	MODERATE CORROSION TO HEAVY