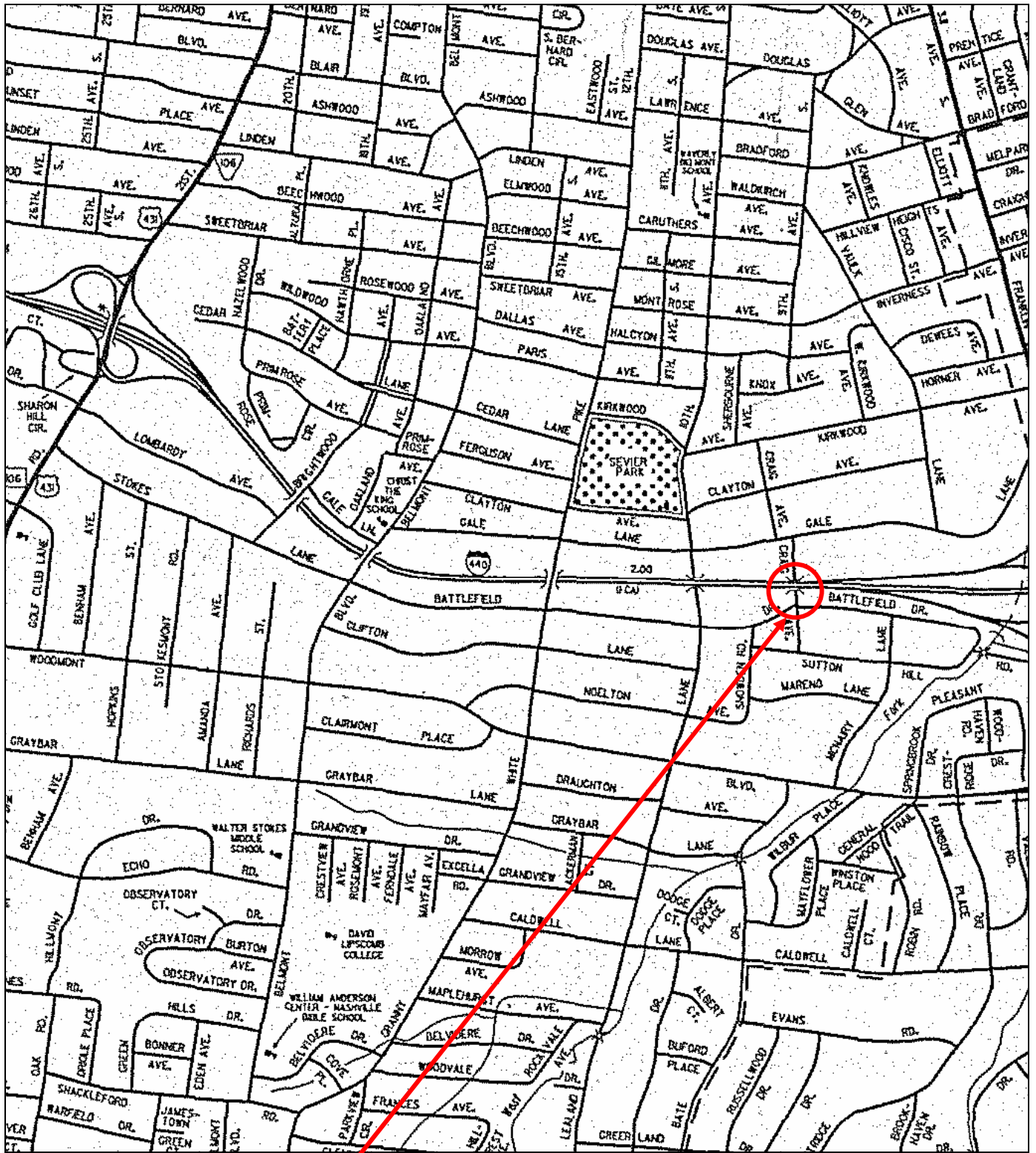


DAVIDSON COUNTY



**19104400029
19-10440-4.36 RT
10440 RL/CRAIG AVE.**

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BRIDGE MAINTENANCE RECOMMENDATIONS



Tennessee Department of Transportation

COUNTY: DAVIDSON
 LOCATION: 19-I0440-04.36-R
 CO. SEQ.: 1 SPEC. CASE: 0
 MILEPOST: 4.3

CROSSING: I440-RL / CRAIG AVE.
 FED. BRIDGE NO.: 19I04400029
 MAINT. DIST.: 19

REPAIR LIST NO.: N
 DATE ADDED:
 REVISED: 09/12/2009

FACILITY CARRIED:	I440	NUMBER OF MAIN SPANS:	1
HIGHWAY SYSTEM:	02-INTERSTATE URBAN	NUMBER OF APPROACH SPANS:	0
BRIDGE WIDTH (CURB TO CURB):	54 FT 1 IN	BRIDGE LENGTH (FT):	112
BRIDGE WIDTH (OUT TO OUT):	56 FT 1 IN	MAXIMUM SPAN LENGTH (FT):	110
APPROACH ROADWAY (W/SHOULDERS):	54 FT 1 IN	SKEW ANGLE (DEGREES):	90
MAINTAINED BY:	STATE HIGHWAY AGENCY		
MAIN SPAN MATERIAL:	PRESTRESSED CONCRETE		
MAIN SPAN DESIGN TYPE:	BOX BEAM OR GIRDERS - SINGLE OR SPREAD		
APPROACH SPAN MATERIAL:	OTHER OR NOT APPLICABLE		
APPROACH SPAN DESIGN TYPE:	OTHER OR NOT APPLICABLE		
INSPECTION DATE:	03/04/2016	GENERAL CONDITION:	FAIR
EVALUATION DATE:	05/08/2014	STRUCTURALLY DEFICIENT:	NO
PPRM PIN NUMBER:			
H TRUCK RATING @ INV.:	20 TONS	SUFFICIENCY RATING:	80.0

No.	RECOMMENDATIONS	REPAIR DATE	REPAIRED BY
1.	REPAIR BRIDGE JOINTS		
2.	REPAIR APPROACH PAVEMENT 'A' & 'B' ENDS		
3.	SEAL APPROACH SLABS		
4.	REPAIR APPROACH JOINTS		

SUGGESTED ROUTINE MAINTENANCE AND COMMENTS
SEAL CONCRETE DECK
REPAIR APPROACH SHOULDER "A" END RT
TEXTURE COAT BRIDGE PARAPET RAIL

GENERAL COMMENTS:
 REPAIRED BRIDGE APPROACH A & B ENDS USED 8 - HOURS PSI CONCRETE 4- CY CONCRETE 47' X 7' X 3" 09/19/2009 M.H. * REPAIRED BREAKOUTS AT APPROACH 2-LEFT LANES USED THERMACRETE MATERIALS .. 04/14/2010 M.H. * REPAIRED BREAKOUTS AT LOWER END OF BRIDGE USED DOT MIX.. 07/19/2011 M.H. # PATCHED HOLE IN BRIDGE DECK 40' X 3' X 3"& 3' X 1' X 3" USED CRAFTCO MATERIALS 12/07/08/2011 H.H. * PATCHED HOLE IN BRIDGE DECK LEFT LANE 9' X 2' X 3" USED CRAFTCO MATERIALS 12/08/2011 H.H. # REPAIRED JOINT AT LOWER END OF BRIDGE LEFT LANE 10' X 4' X 4" USED CRAFTCO MATERIALS. 12/11/2012 H.H. & M.H. # REPAIRED JOINT IN LOWER END OF BRIDGE 2- RIGHT LANE 38' X 4' X 4" USED CRAFTCO MATERIALS. 12/13/2012 M.H. # REPAIRED HOLES IN BRIDGE DECK LOWER END , RIGHT LANES & APPROACH SLAB USED CRAFTCO MATERIALS. 06/03/2014

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

Bridge Condition Coding Form

Revised 03/07/2016

Bridge Number: 19I044000291
(Includes Item 5A)

Feature Intersected: I440-RL / CRAIG AVE.

Evaluation Status: OTHER ITEM(S) HAVE BEEN CHANGED

County: 19

Route: I0440

Special Case: 0

County Sequence: 1

Log Mile: 4.36

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE	CONDITION CODING GUIDELINES (Values for Coding Items 58, 59, 60 and 62)			
90	LAST INSPECTION DATE	03/04/2016	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.			
	EARLIEST DATE OF NEXT REGULAR INSPECTION	01/03/2018				
		<u> / / </u>				
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	99 FT. 99 IN.				
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	99 FT. 99 IN.				
36	TRAFFIC SAFETY FEATURES					
	Br. Rail	Trans.	Appr. Rail	Terminal	SPEED LIMIT	
	1	0	0	0	55	
	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
41	STRC OPEN/CLOSED/POSTED	A				
	A K P	<u> </u>				
58	DECK	5				
59	SUPERSTRUCTURE	7				
60	SUBSTRUCTURE	7				
61	CHANL/CHANL PROTECTION	N				
62	CULVERT AND RETAIN WALL	N				
71	WATERWAY ADEQUACY	N				
72	APPROACH RDWY ALIGNMENT	8				
521	OVERALL CONDITION	FAIR				
16	LATITUDE	17 LONGITUDE				
	N 36° 6.9520'	W 86° 47.0150'				
	<u> </u>	<u> </u>				
	<u> </u>	<u> </u>				

TEAM LEADER SIGNATURE

REVIEW DATE

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Photographs

Bridge ID#: 19I04400029

Date: 03/04/2016



APPROACH "A" - EBL



VIEW ACROSS TOP OF WEARING SURFACE EBL

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Bridge ID#: 19I04400029

Date: 03/04/2016



APPROACH "B" - EBL



APPR. "B" END JOINT W/ PATCHES EBL

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Bridge ID#: 19I04400029

Date: 03/04/2016



ABUTMENT #1



DECK PANEL BAY "A" ABUT. #2 W/ FAILED PATCH

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Bridge ID#: 19I04400029

Date: 03/04/2016



DECK PANEL BAY "A" ABUT. #2 OVERALL VIEW



BOTTOM OF DECK

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Bridge ID#: 19I04400029

Date: 03/04/2016



CLEARANCE VIEW RT. SIDE



VIEW LOOKING NORTH ON CRAIG AVE.

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Photographs

Bridge ID#: 19I04400029

Date: 03/04/2016



VIEW LOOKING SOUTH ON CRAIG AVE.



BRIDGE NO.

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BRIDGE INSPECTION REPORT

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

Field Report No. 21 Date 3/4/2016
Previous Report No. 20 Date 3/6/2014
Plans: DESIGN

Bridge No. 19I04400029
Eleven Digit No.

Bridge Location No. 19 - I0440 - 4.36 RT
Co. Route Log Mile

I440 RL over CRAIG AVE
Road Name Crossing Structure Name (If Named)

Year Constructed 1985 ACTUAL County Davidson Maintenance District 37

Year Widened _____ Year Rehabilitated _____

FEATURES

Wearing Surface CONCRETE Depth _____ (in.)

Flared Width NO Median Width OPEN

Navigational Control NO Bridge Skew 90°

Structure Type (Main Span) HBB

Structure Type (Appr.Spans) _____

No. Main Spans 1 No. Approach Spans _____

Maximum Span Length 112' (**.* ft.)

Total Length 112' (**.* ft.)

INSPECTORS

1. HALIBURTON TL
2. VOGEL
3. BROWN
4. LOVE
5. _____
6. _____
7. _____
8. _____

WIDTHS (*.* ft.)

Deck Out-to-Out 56'

Roadway Curb/Curb 54'

Roadway Rail/Rail _____

Sidewalk Rt. _____ Lt. _____

*Approach Roadway 36'

*(Does Not Include Shoulders)

Approach Shoulder Rt. 12'

Lt. 6'

CLEARANCES

Min. Vertical Clearance over Deck _____ (ft.-in.)

Min. Vertical Under Clearance 17' (ft.-in.)

Min. Lateral Under Clearance Rt. 7' (*.* ft.)

Min. Lateral Under Clearance Lt. _____ (*.* ft.)

FRACTURE CRITICAL: NO

(If Yes, Include BIR 3.9)

NBIS Bridge Length (<25 ft.) OVER 25' (ft.-in.)

UNDERWATER INSPECTION

To Be Performed By: N/A Date _____

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

COMMENTS:

Supervising Bridge Inspector: JOHN HALIBURTON

BRIDGE RATING: FAIR

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PERFORMANCE EVALUATION

Time of Day Inspected 9:45 AM Weather Conditions CLDY 47
Vehicles Observed ALL TYPES

LIVE LOAD BEHAVIOR

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

APPROACH

	Rating	Comments
Alignment	GOOD	
Slab	FAIR	<i>LIGHT LONGIT. CRACKS</i>
Joints	POOR	<i>HVY DEBRIS AND HVY FILLER LOSS</i>
Pavement	FAIR	<i>A/C PATCHES & CONC. B.O.'S 'A' & 'B' ENDS</i>
Embankment	GOOD	
Drains	GOOD	

TRAFFIC SAFETY FEATURES

	Rating	Standard/ SubStandard	Comments
Bridgerailing	GOOD	STANDARD	
Transitions	GOOD	SUBSTANDARD	<i>RUB-RAILS NON-EXISTENT. INCORRECT BLOCKOUTS</i>
Guardrail	GOOD	SUBSTANDARD	<i>INCORRECT BLOCKOUTS</i>
Guardrail Terminal	GOOD	SUBSTANDARD	

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:

DECK

	Rating	Comments
Wearing Surface	FAIR	CONCRETE W/TRANSV & LONGIT CRACKS UP TO 1/16" OPEN
Deck - Structural Condition	FAIR	(BTM--G)
Curbs	NA	
Median	NA	
Sidewalks	NA	
Parapet	FAIR	H.C.'S & MOD. SCALE
Railing	NA	
Paint	NA	
Drains	NA	
Lighting Standards	GOOD	
Utilities	NA	
Joint Leakage	GOOD	
Expansion Joints	POOR	LOSS OF FILLER & DEBRIS BLD-UP

SUPERSTRUCTURE

Bearing Devices	GOOD	
Girders or Beams	GOOD	BMS 'A', 'D', 'F'- LGT LONGIT CRACKS
Floor Beams	NA	
Stringers	NA	
Diaphragms	NA	
Bracing	NA	
Trusses - General	NA	
Portals	NA	
Bracing	NA	
Paint	NA	
Alignment of Members	GOOD	

TEXTURE COAT

Condition Rating	<u>FAIR</u>	Needs Spot Painting	<u>NO</u>
Overall Appearance	<u>FAIR</u>	Needs Repainting	<u>YES</u>
Staining Rating	<u>FAIR</u>	Comments	
Fading Rating	<u>FAIR</u>		
Scaling Rating	<u>FAIR</u>		

SUBSTRUCTURE

ABUTMENTS

	Rating	Comments
Caps	NA	
Breastwall	GOOD	<i>H.L. CRACKS</i>
Wings	GOOD	
Backwall	GOOD	<i>H.L. CRACKS W/EFF</i>
Plumb	GOOD	
Footing	NV	
Piles	NV	
Embankment	GOOD	
Bearing Surface	GOOD	
Slope Paving	NA	<i>SHOT ROCK</i>
Rip Rap	GOOD	

PIERS

Caps	NA	
Columns		
Plumb		
Footings		
Piles		
Bearing Surface		

BENTS

Caps	NA	
Columns		
Plumb		
Footings		
Piles		
Bearing Surface		

Piles Need Replacement: _____

Piles To Be Replaced:

SUMMARY
19-I440-4.36 RT
3/4/2016

I440 RL/Craig Ave.
1 Span/H.B.B.

This bridge was inspected and found to be in **fair** condition. Approach pavement is fair with breakouts and patches “A” and “B” end and moderate settlement ‘A’ end right shoulder area. Approach alignment is good. Bridge parapet rail is fair and standard with scale and vertical hair cracks. Approach traffic safety features at ‘A’ end left are good but substandard.

The concrete wearing surface is fair with longitudinal and transverse cracks 1/8” open. Open type joints with filler are poor with B.O.’s ‘A’ and ‘B’ end, debris build-up, and filler loss.

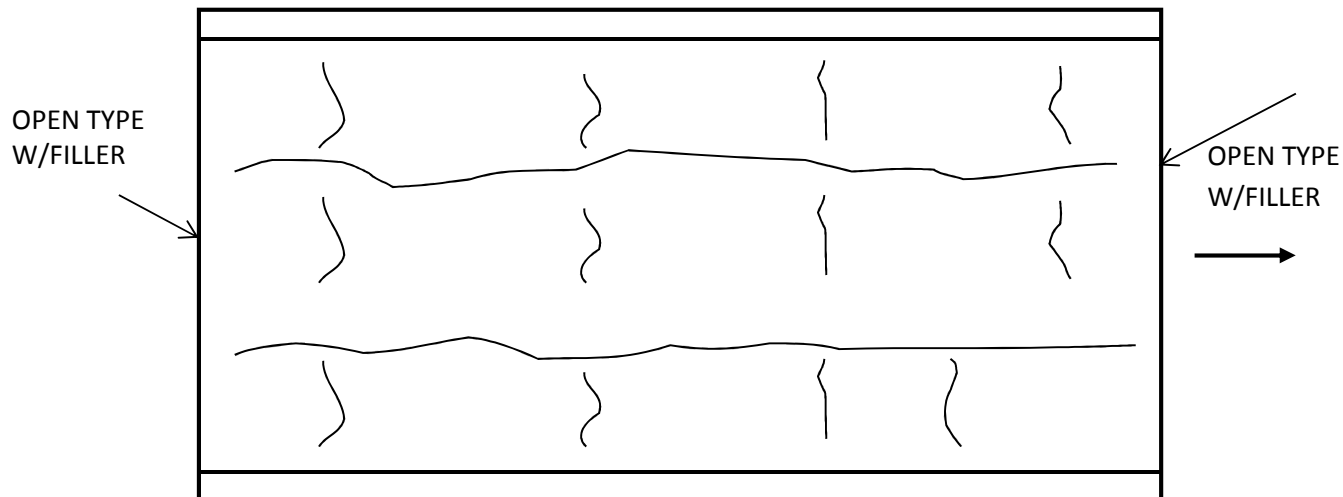
Bottom deck, box beams, and substructure units are good.

John Haliburton

Top of Deck Span No. 1

Date 3/4/2016
 JH

Bridge Location No. 19 I440 4.36 RT.
 County Route Log Mile



DECK	FAIR	CONCRETE-TRANSV. CRACKS & LONGIT. 1/8" OPEN
PARAPET	FAIR	STANDARD-LT. SCALE W/ H.C.
JOINTS	POOR	OPEN TYPE JOINTS W/ HVY DEBRIS & FILLER LOSS

Bottom of Slab Span No. 1

Date 3/4/2016
JB

Bridge Location No. 19 I440 4.36 RT.
County Route Log Mile

A	(1)
B	
C	
D	
	(3)
E	
F	
	(2)

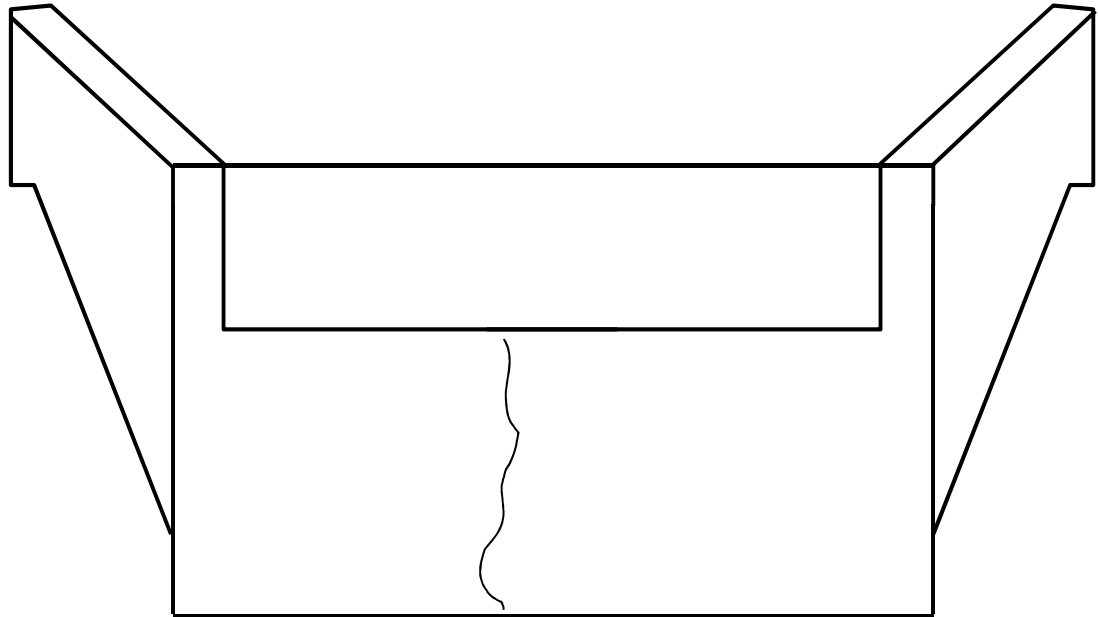


DECK	GOOD	PATCHES BAYS 'B' & 'D' END PANELS @ ABUT #2, FAILED PATCHES, I.P.B.O. 1'L X 6"W X 1"DP BAY 'B' END PANEL @ ABUT #2
DIAPHRAGMS	GOOD	
BEAMS	GOOD	(1) MULTIPLE .010" OPEN LONGIT. CRACKS FROM 3' TO 20' LONG BM A, (2) LONGIT. CRACK .010" OPEN X 5' L BM F (3) LONGIT CRACKS UPTO 5' L X .010" OPEN BM D
OVERHANG	GOOD	

Abutment No. 1

Date 3/4/2016
JV

Bridge Location No. 19 I440 4.36 RT.
County Route Log Mile

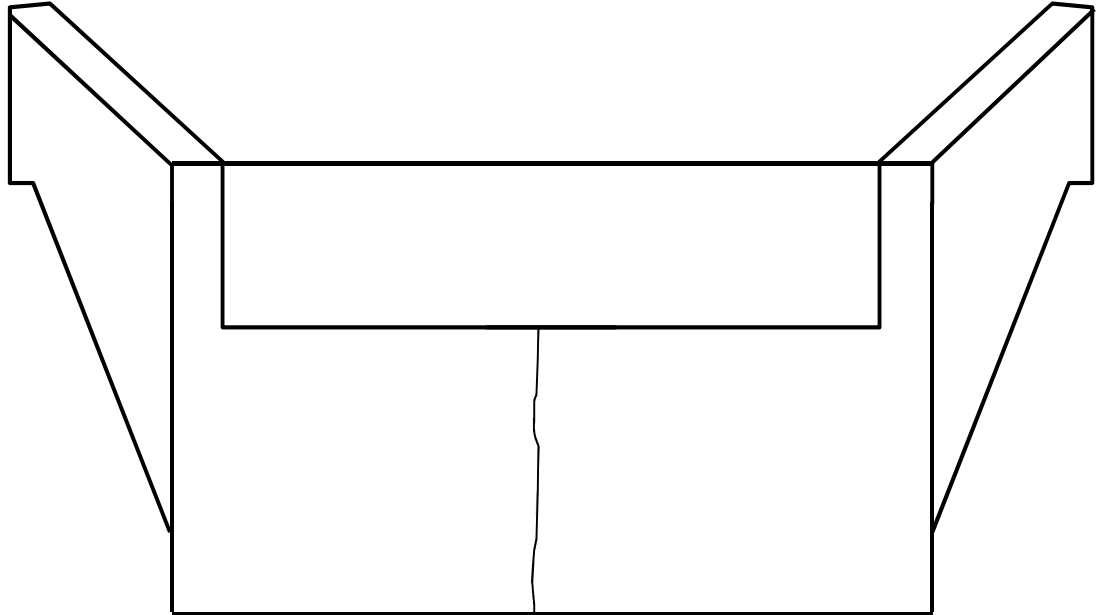


BACKWALL	GOOD	RANDOM VERT H.C.'S W/EFF
WALL	GOOD	RANDOM VERT H.C.'S
WINGS	GOOD	
BEARINGS	GOOD	

Abutment No. 2

Date 3/4/2016
JV

Bridge Location No. 19 1440 4.36 RT.
County Route Log Mile



BACKWALL	GOOD	RANDOM VERT. H.C.'S
WALL	GOOD	RANDOM VERT H.C.'S
WINGS	GOOD	
BEARINGS	GOOD	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

Underpass Condition Coding Form

Revised 03/07/2016

County: 19

Route: 0F006

Special Case: 0

County Sequence: 1

Bridge Number: 19I044000292
(Includes Item 5A)

Feature Intersected: I440-RL / CRAIG AVE.

Log Mile: 0.13

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE	UNDERPASS SAFETY FEATURES
90	LAST INSPECTION DATE	03/04/2016	
	EARLIEST DATE OF NEXT REGULAR INSPECTION	01/03/2018	515 (A) TYPE UNDERPASS BARRIER NONE NEEDED OR NOT APPLICABLE
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	17 FT. 0 IN.	Revised Barrier Type
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	17 FT. 0 IN.	(B) ADEQUACY OF BARRIER OR RAIL N
47	TOTAL HORIZONTAL UNDERCLEARANCE	59 FT. 9 IN.	(C) ADEQUACY OF TRANSITIONS N
54	MINIMUM VERTICAL UNDERCLEARANCE (EXCLUDES SHOULDERS)		(D) ADEQUACY OF TERMINALS N
	Circle One: H R	_____ FT. _____ IN.	554 VERTICAL CLEARANCE LISTED ON HEIGHT POSTING
55	MINIMUM LATERAL UNDERCLEARANCE ON RIGHT SIDE		_____ FT. _____ IN.
	Circle One: H R	_____ FT. _____ IN.	
56	MINIMUM LATERAL UNDERCLEARANCE ON LEFT SIDE	_____ FT. _____ IN.	16 LATITUDE N 36° 6.9520' 17 LONGITUDE W 86° 47.0150'
521	OVERALL CONDITION	FAIR	HEIGHT POSTED AT BOTH APPROACHES? YES [] NO [] N/A []
555	COMMENTS	_____	

TEAM LEADER SIGNATURE

REVIEW DATE

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INSPECTION REPORT FOR UNDERPASS ROUTE

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

Field Report No. 21 Date 3/4/2016
Previous Report No. 20 Date 3/6/2014

Bridge No. 19104400029 Underpass Location No. 19 - F006 - 0.13
Eleven Digit No. Co. Route Log Mile
I440 RL/CRAIG AVE or 19 - I440 - 0436 RT over 19 - F006 - 0.13
Railroad/Walkway Co. Route Log Mile Co. Route Log Mile
 County Davidson Structure Name (If Named) _____
 Year Constructed 1985 ACTUAL
 Year Widened _____ Year Rehabilitated _____

GEOMETRIC FEATURES UNDER BRIDGE (*. * ft. unless otherwise noted)

Divided Highway N/A 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 2' ft. Right 2' ft. Left
 *Horizontal Clearance Under Bridge 60' ft.
 *Distance Between Pier Protection Guardrail and Substructure _____ ft. Right _____ ft. Left
 *Width of Sidewalk Under Bridge 5' ft. Right 5' ft. Left
 *Minimum Vertical Clearance: 17' ft. 0" in. (ft.-in.)
 *Show on Sketch

TRAFFIC SAFETY FEATURES

Pier Protection Railing or Parapet
 Approach Guardrail Terminals
 Approach Guardrail
 Approach Guardrail Terminal

Rating	Standard/ SubStandard Non Exist
	NONEXIST
	NONEXIST
	NONEXIST
	NONEXIST

INSPECTORS

1. HALIBURTON TL
2. VOGEL
3. BROWN
4. LOVE
5. _____
6. _____

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

Date 3/4/2016

Underpass Location No. 19 - F006 - 0.13
Co. Route Log Mile

Other Signs or Plaques:

Comments Regarding any
Problems with Signing:

BRIDGE FEATURES (*.* ft.)

Bridge Skew <u>90 °</u>	Number of Lanes/Tracks on Bridge <u>3</u>
Structure Type (Main Span) <u>HBB</u>	No. Main Spans <u>1</u>
Structure Type (Appr.Spans) _____	No. Appr. Spans _____
Maximum Span Length <u>112'</u> (ft.)	Total Length <u>112'</u> (ft.)
Width of Bridge Out-to-Out <u>56'</u> (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: FAIR

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.

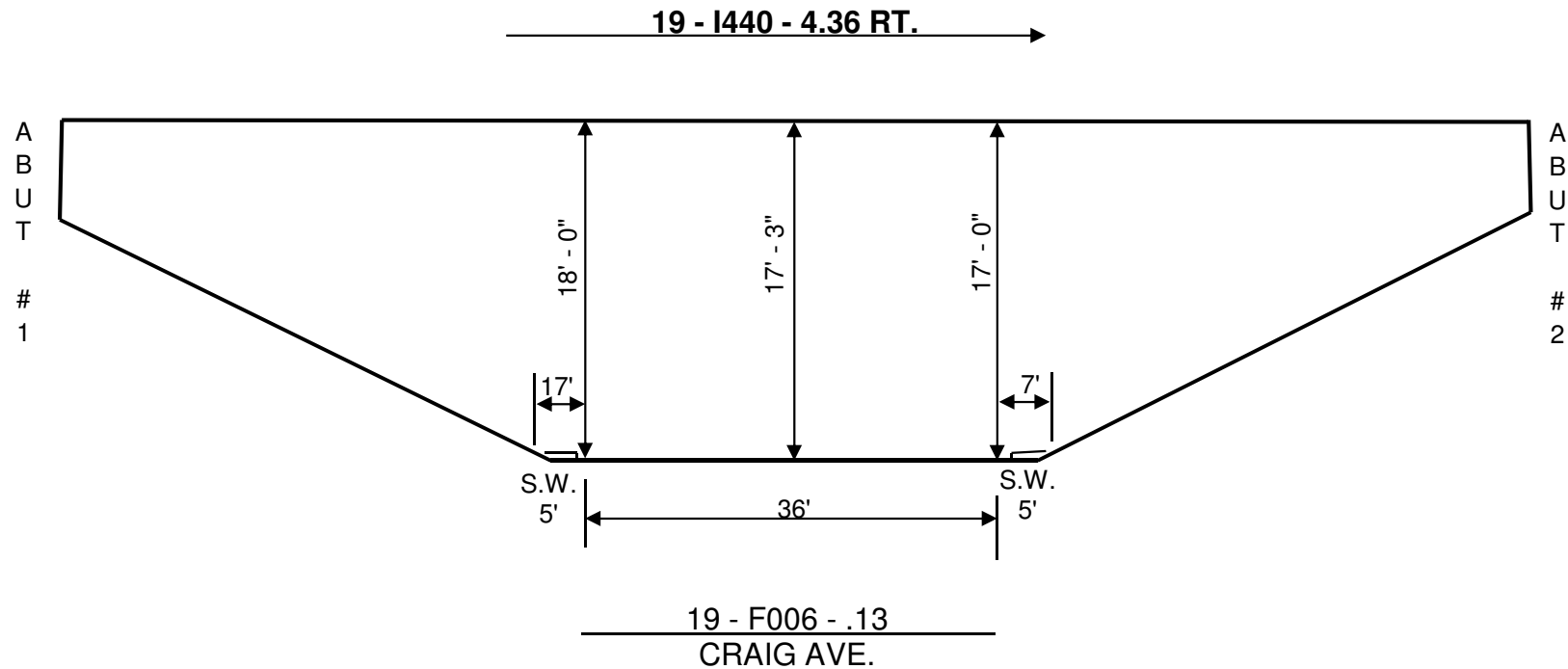
MINIMUM PICTURES REQUIRED

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

CLEARANCE SKETCH

Date 3/4/2016

Bridge Location No. 19 I440 4.36 RT.
County Route Log Mile



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