



Hamilton County

Regular Inspection Report

<u>Location</u>: 33-03610-01.58 <u>Federal ID</u>: 33I00240061

Closeout Agency:

TDOT

<u>Description</u>:

4 Span Bridge FAU 3610 – McBrien Road

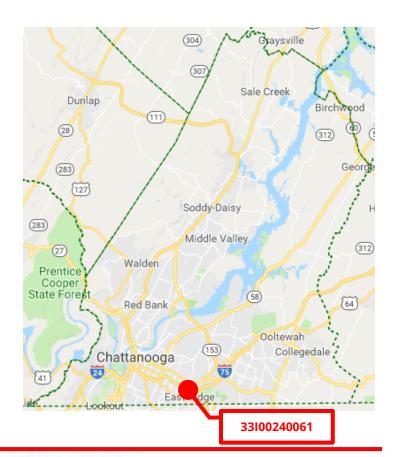
OVER

I-24 Log Mile 13.63

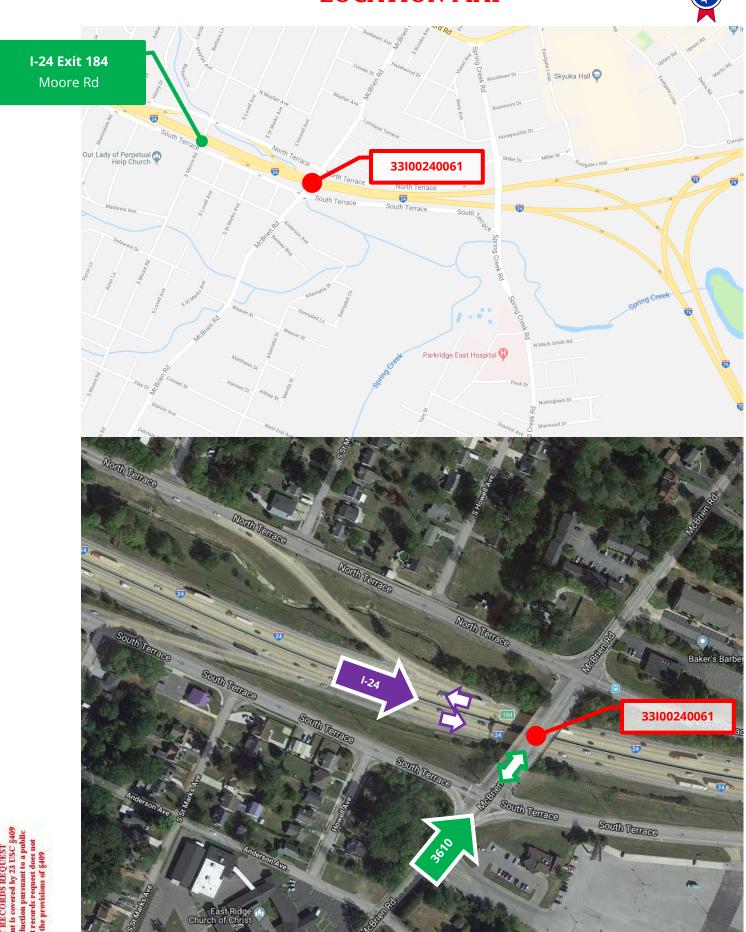
Inspection Date: October 12, 2020

Overall Condition Rating:

FAIR



LOCATION MAP



BRIDGE MAINTENANCE RECOMMENDATIONS

COUNTY: HAMILTON

LOCATION: 33-03610-01.58-

CO. SEQ.: 1 SPEC. CASE: 0



FED. BRIDGE NO.: 33100240061

REPAIR LIST NO.: CROSSING: MCBRIEN RD / I-24 DATE ADDED: 12/10/2018 REVISED: 10/12/2020 MAINT. DIST.: 33

FACILITY CARRIED:		FA	U 3610	NUMBER OF MAIN SPANS:	4
HIGHWAY SYSTEM: 1	8-STP URBAN,	NON-STAT	E SYS.	NUMBER OF APPROACH SPANS	: 0
BRIDGE WIDTH (CURB TO C	URB):	67 FT	10 IN	BRIDGE LENGTH (FT):	192
BRIDGE WIDTH (OUT TO OU	T):	79 FT	4 IN	MAXIMUM SPAN LENGTH (FT)	: 60
APPROACH ROADWAY (W/SHC	ULDERS):	47 FT	10 IN	SKEW ANGLE (DEGREES):	68
MAINTAINED BY:				STATE HIGHWAY AGENCY	
MAIN SPAN MATERIAL:				PRESTRESSED CONCRETE	
MAIN SPAN DESIGN TYPE:		BOX	BEAM	OR GIRDERS - MULTIPLE	
APPROACH SPAN MATERIAL:			TO	HER OR NOT APPLICABLE	
APPROACH SPAN DESIGN TY	PE:		TO	HER OR NOT APPLICABLE	
	·				
INSPECTION DATE:	10/12/2020		(GENERAL CONDITION:	FAIR
EVALUATION DATE:	11/20/2018	1		STRUCTURALLY DEFICIENT:	NO
PPRM PIN NUMBER:					
H TRUCK RATING @ INV.:	19 TONS	}	:	SUFFICIENCY RATING:	81.4
	<u> </u>				

SUGGESTED ROUTINE MAINTENANCE AND COMMENTS
REPAIR CRACKS SPALLS AND DELAMINATIONS IN DECK SUPERSTRUCTURE AND SUBSTRUCTURE
REPAIR UNDERMINING AT ABUTMENT NO. 2 LEFT SIDE
REMOVE HANGING ELECTRICAL LINE ON LOOKING AHEAD SIDE OF BENT NO. 3
INSTALL PADDLEBOARD SIGNS AT APPROPRIATE LOCATIONS (APPROACH NO. 2)
LEVEL THE WEARING SURFACE AT BOTH APPROACHES
REPAIR APPROACH SIDEWALKS
BRIDGERAILS ARE SUBSTANDARD

GENERAL	COMMENTS:				



Bridge Condition Coding Form

	401001000
Revised	10/20/2020

County: 33 DEPARTMENT OF TRANSPORTATION **Route:** 03610 331002400611 **Bridge Number:** (Includes Item 5A) **Special Case:** $\mathbf{0}$ MCBRIEN RD / I-24 **Feature Intersected: County Sequence:** 1 Log Mile: NO CHANCE BUT STILL EVALUATE

<u>(</u>

Eva	luation status: NO CHANG	GE BUT STILL EVALU	AIE
CODE	ONLY THOSE VALUES W	HICH HAVE CHAP	NGED
ITEM#	DESCRIPTION	VALUE	CONDITION CODING GUIDELINES
90	LAST INSPECTION DATE	10/12/2020	(Values for Coding Items 58, 59, 60 and 62)
	EARLIEST DATE OF	08/13/2022	
	NEXT REGULAR INSPECTION	/ /	N NOT APPLICABLE
			9 EXCELLENT CONDITION
10	MINIMUM V.C. OVER DECK	99 FT. 99 IN. FT IN.	8 VERY GOOD CONDITION - NO
	(ROADWAY + SHOULDERS)		PROBLEMS NOTED.
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	99 FT. 99 IN.	7 GOOD CONDITION - SOME MINOR PROBLEMS
	(EXCLUDES SHOULDERS)	FT IN.	6 SATISFACTORY CONDITION - MINOR DETERIORATION OF STRUCTURAL
36	TRAFFIC SAFETY FEATURES		ELEMENTS.
	Tr.	erminal SPEED LIMIT N 30	5 FAIR CONDITION - ALL PRIMARY STRUCTURAL ELEMENTS ARE SOUND BUT
	0 N N	N 30	MAY HAVE MINOR SECTION LOSS,
			CRACKING, SPALLING OR SCOUR.
41	STRC OPEN/CLOSED/POSTED	A	4 POOR CONDITION - ADVANCED SECTION
	A K P		LOSS, DETERIORATION, SPALLING OR SCOUR.
58	DECK	6	3 SERIOUS CONDITION - LOSS OF SECTION,
			DETERIORATION, SPALLING OR SCOUR HAVE
59	SUPERSTRUCTURE	5	SERIOUSLY AFFECTED PRIMARY STRUCTURAL COMPONENTS. LOCAL
			FAILURES ARE POSSIBLE. FATIGUE CRACKS
60	SUBSTRUCTURE	5	IN STEEL OR SHEAR CRACKS IN CONCRETE MAY BE PRESENT.
61	CHANL/CHANL PROTECTION	N	2 CRITICAL CONDITION - ADVANCED DETERIORATION OF PRIMARY STRUCTURAL
			ELEMENTS. FATIGUE CRACKS IN STEEL OR
62	CULVERT AND RETAIN WALL	N	SHEAR CRACKS IN CONCRETE MAY BE PRESENT OR SCOUR MAY HAVE REMOVED
			SUBSTRUCTURE SUPPORT. UNLESS
71	WATERWAY ADEQUACY	N	CLOSELY MONITORED IT MAY BE
			NECESSARY TO CLOSE THE BRIDGE UNTIL CORRECTIVE ACTION IS TAKEN.
72	APPROACH RDWY ALIGNMENT	8	1 "IMMINENT" FAILURE CONDITION - MAJOR
			DETERIORATION OR SECTION LOSS
521	OVERALL CONDITION	FAIR	PRESENT IN CRITICAL STRUCTURAL
			COMPONENTS OR OBVIOUS VERTICAL OR HORIZONTAL MOVEMENT AFFECTING
			STRUCTURAL STABILITY. BRIDGE IS
	LATITUDE 17 LONGITUI		CLOSED TO TRAFFIC BUT CORRECTIVE
]	N 35° .2890′ W 85° 13.6240	D'	ACTION MAY PUT IT BACK IN LIGHT SERVICE
-		_	0 FAILED CONDITION - OUT OF SERVICE AND
		1 1	BEYOND CORRECTIVE ACTION.



BRIDGE NO. - BRIDGE RAIL - #1 RIGHT SIDE



VIEW ACROSS TOP OF DECK



LOOKING AHEAD ON ROUTE



LOOKING BACK ON ROUTE



LEFT SIDE VIEW OF BRIDGE



RIGHT SIDE VIEW OF BRIDGE



UNDERPASS NO. - BENT #1 - COLUMN "B"



SUPER/SUBSTRUCTURE - ABUTMENT #1



SUPER/SUBSTRUCTURE - BENT #2



BEARING "L" - ABUTMENT #1



BEARING "C" - BENT #2



APPROACH #1



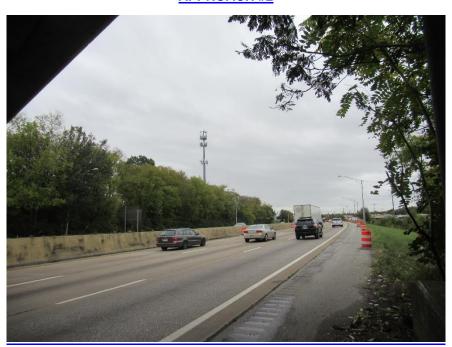
WEARING SURFACE



TRAFFIC SAFETY FEATURES



APPROACH #2



LOOKING AHEAD ON ROUTE FROM UNDERPASS - EASTBOUND



LOOKING BACK ON ROUTE FROM UNDERPASS - WESTBOUND



TRAFFIC SAFETY FEATURES



CRACKS IN WEARING SURFACE



BENT #2 - COLUMN "B" - REBAR/SPALL/DELAMINATION



BOTTOM OF CAP - BENT #1 - BETWEEN COLUMNS "D" AND "E"



END OF BEAM "F" SPAN #2 - SPALL/REBAR



BENT #1 - COLUMN "F" - REBAR/SPALLS



BOTTOM OF CAP - BENT #3 - BETWEEN COLUMNS "A" AND "B" - DELAM



BOTTOM OF CAP - BENT #3 - BETWEEN COLUMNS - "B" AND "C" - DELAM



BENT #3 - COLUMN "A" - REBAR SPALL



BENT #3 - COLUMN "B" - DELAM/SPALLS



BENT #2 - COLUMN "E" - DELAMINATION



BENT #3 - COLUMN "E" - LOOSE ELECTRIC WIRING



BOTTOM OF DECK - SPAN #3 - LEAKAGE



UNDERPASS EASTBOUND - #1 RIGHT - DAMAGED GUARDRAIL

BRIDGE INSPECTION REPORT

DIVIL	OGE HASI ECHION KEI O	<u>1X1</u>	
Form BIR 3.0		Field Report No. 2	5 Date 10/12/2020
(Rev. 9-22-98)		Previous Report No. 24	4 Date 10/10/2018
DT-0069		Plans: <u>D</u>	ESIGN
Bridge No. 33100240061	Bridge	e Location No. 33	- 03610 - 0158
Eleven Digit No.		Co.	Route Log Mile
03610 - McBRIEN ROAD(3610-1.	58) over	1 - 24	
Facility Carried on Structure Year Constructed 1958	County	Crossing Hamilton Mai	ntananca District: 20
	County	<u> Harrintori</u> iviai	ntenance District: 29
Year Widened			
<u>FEATURES</u>			TEAM LEADER
Wearing Surface ASPHALT	Depth 3.0 ir	1	S. Davis
☐ Flared Width	Median Width NON	E ft	INSPECTORS
\square Navigation Control	Bridge Skew 68° -	RT	J. Edwards
Structure Type (Main) Prestressed	/ Post-tensioned Box Beam / Giro	ders - Multiple	W. Spencer
Structure Type (Appr.)	<u> </u>	<u> </u>	-
	No. Approach Spans		-
	0.0 ft		
			
	2.0 ft	leavence aver Corried D	Ita 02610 00 ft 00 in
<u>WIDTHS</u> (*.* ft.)		learance over Carried Roass Inspection for underpass	
Deck Out-to-Out 79.5 ft		tical Bridge (See BIR 3.9	
Roadway Curb/Curb 68.0 ft	<u> </u>	_	ii Tracture Criticaly
Sidewalk Lt. 4.5 ft R	t. 4.5 ft NBIS Bridge	e (Length > 20ft)	
*Approach Roadway 48 ft	Underwater In	spection Performed By:	
*(Does Not Include Shoulders)			
Approach Shoulder Lt. 0		spection Date	
Rt. <u>0</u>	See bottom of "B	ents" page for applicable no	tes from underwater reports
COORDINATES	EQUIPMENT + RESOURCES		
Latitude: N 35° 0.289'	✓ Tape / Laser ☐ GPS	□т	raffic Control - TDOT
Longitude: W 85° 13.624'	\square Ladder \square Big Bo	at \square T	raffic Control - Bridge
Date Collected: 10/12/2020	_		OD.
	☐ Reach All ☐ Bucket	:Truck	
General Inspection Comments:			
General inspection comments.			
Overall Rating Comments:			
BRIDGE is: OPEN C	loseout Agency TDOT	OVERA	II RATING: FAIR

PRODUCED PURSUANT TO PUBLIC RECORDS REQUEST. This document is covered by 73 USC \$409 And its production pursuant to a public document records request does not waive the provisions of \$409

	Bridge Location No.				33 - 03610 - 0158			10/12/2020	
PERFORMANCE E	:VΔΙ ΠΔΤΙΩΝ			Co.	Co Route - Log Mile - Left/Right				
Time of Day Insp				We	ather	Conditions	70° - CLOUDY		
Vehicles Observe		<u>/ ::</u> ALL TYI			acrici	Conditions	70 020001		
LIVE LOAD BEHA	_								
Substructure		Yes	/No				Comments		
	Horiz./ Vert. Defl. NO								
Vibration		N	0						
Superstructure	<u> </u>								
Horiz./ Ver	t. Defl	. N	0						
Vibration		N	0						
<u>APPROACH</u>									
•	Rat		ı				Comments		
Alignment		OD							
Slab		IA							
Joints		AIR 			SIBLE S	SIGNS OF SIGNIF	ICANT ISSUES		
Pavement		AIR.	ROUG	iH, UNEVEN.					
Slope		OD							
Drains		NE							
TRAFFIC SAFETY	FEAT	<u>JRES</u>		Standar	d/				
		Ra	iting	NonStand			Comments		
Bridgerailing		FA	ΝR	Nonstan	dard				
Transitions		NC	NE	N/A		CURB >6"			
Approach Rail		NC	NE	N/A					
Guardrail Term	ninal	NC	NE	N/A					
Median		NC	NE						
SIGNS POSTED O	N RO	UTE					\square Weigh	nt Limit Posted	
Paddleboards				NO			Gross	<u> </u>	Tons
Vertical Cleara	nce (<	14'-6")	NO			2 Axle	<u> </u>	Tons
Narrow Bridge	Signs			NO			3 or r	nore Axles	Tons
One Lane Bridg	ge Sigi	าร		NO					
Other Signs or	•	es:							
ATTACHED SIGNS	<u> </u>								
Sign Number: Location:									
Directions:									

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

Bridge Location No.

33 - 03610 - 0158

Date

10/12/2020

DECK Rating Comments **FAIR** ASPHALT, CRACKS OVER JOINTS, WIDE CRACKS. Wearing Surface Deck - Structural **FAIR** PRESTRESS CONCRETE BOX BEAMS HAVE LEAKAGE. Condition Curbs GOOD >=6" Median CLOSED - NO BARRIER. NONE Sidewalks **POOR** SETTLED AND UNEVEN AT APPROACHES. **Paint** NA NA **Drains Lighting Standards** GOOD SPAN 2 - LEFT HAS EXPOSED WIRES AND SPAN 3 - RIGHT. Utilities NONE Joint Leakage **POOR** HEAVY. **Expansion Joints** NV OVERLAYED. **SUPERSTRUCTURE Bearing Devices** NV NO VISIBLE SIGNS OF SIGNIFICANT ISSUES. Girders or Beams **FAIR** DELAMINATION, SPALLS, EXPOSED STRANDS WITH 90% SECTION LOSS, HAIRLINE CRACKS WITH EFFLORESCENCE. Floor Beams NA Stringers NA Diaphragms NA Bracing NA **Paint** NA Alignment of Members GOOD GAPS UP TO 1.5" IN SPAN #1. Trusses - General NA **Portals** NA **Bracing** NA **TEXTURE COAT Condition Rating Needs Spot Painting Overall Appearance Needs Repainting** Staining Rating Comments **Fading Rating**

PRODUCED PURSUANT 10
PUBLIC RECORDS REQUEST
is document is covered by 23 USC §409
nd its production pursuant to a public
document records request does not
waive the provisions of §409

Scaling Rating

Date

SUBSTRUCTURE

<u>ABUTMENTS</u>	Rating	Comments
Caps	GOOD	HAIRLINE CRACKS, REBAR SPALL, STAINS.
Stem:	NA	
Wings / Walls	GOOD	NO VISIBLE DEFECTS FOUND.
Backwall	NV	PRESTRESSED CONCRETE BOX BEAMS.
Plumb	GOOD	NO VISIBLE DEFECTS FOUND.
Footing	NA	
Piles	NV	
Embankment	GOOD	UNDERMINING AT ABUTMENT #2, LEFT.
Bridge Seat:	NV	NO VISIBLE SIGNS OF STRUCTURAL ISSUES
Rip Rap	NA	
BENTS		
Bridge Seat:	GOOD	NO VISIBLE DEFECTS FOUND.

Bridge Seat:	GOOD	NO VISIBLE DEFECTS FOUND.
Caps	FAIR	SIGNIFICANT REBAR SPALLS, DELAMINATION.
Columns / Shaft	FAIR	BENTS 2 AND 3 - SIGNIFICANT REBAR SPALLS.
Pier / Crash Walls:	NA	
Plumb	GOOD	NO VISIBLE DEFECTS FOUND.
Footings	NV	
Piles	NV	
Piles Need Replacement:	NO	

Underwater Substructure Comments

PRODUCED PURSUANT TO PUBLIC RECORDS REQUEST. This document is covered by 23 USC §409 And its production pursuant to a public document records request does not waive the provisions of §409

Inspection Team's Summary
Bridge Location No. 33-03610-01.58
Inspection Date 10/12/2020
Bridge Rating FAIR

This is a 4-span prestressed side by side box beam bridge. It was inspected by a Chattanooga bridge inspection team from Region 2. The bridge rails do meet current safety standards. The paddleboards are nonexistent at approach #1. Settlement exists at both approaches. The bridge was under construction at the time of inspection. This bridge is scheduled for replacement. Deck elevations were not taken this cycle.

The deck is rated "FAIR". The box beams have heavy leakage coming through the joints.

The superstructure is rated "FAIR". The beams have spalls and hairline cracks, one spall in span #3 has section loss on exposed strands.

The substructure is rated "FAIR". The abutments have hairline cracks and undermining is present at #2 left. The bents have significant amount of delamination and spalls. Section loss and corrosion is present in exposed rebar.

The underpass is rated "GOOD". The underpass transitions and approach rails are substandard. The Eastbound Approach #1 Guardrail is damaged.

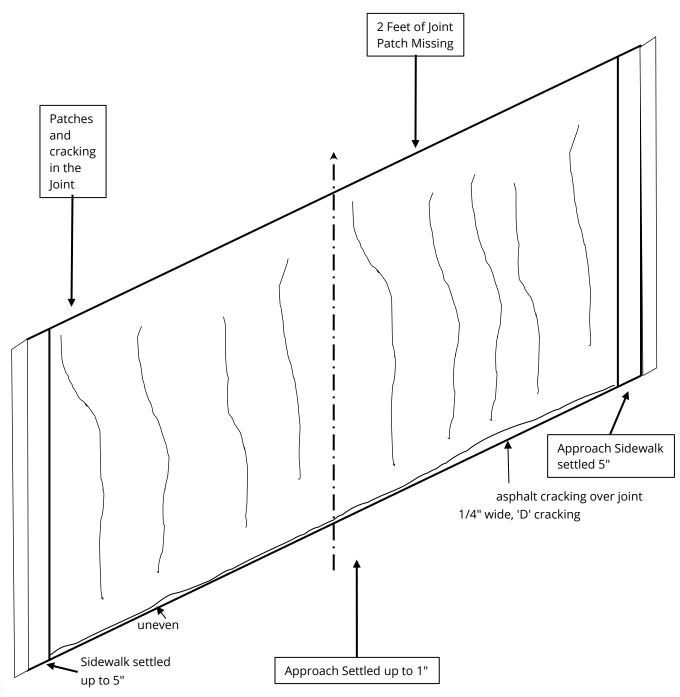
ELEVATIONS OF DECK PAGE NO.

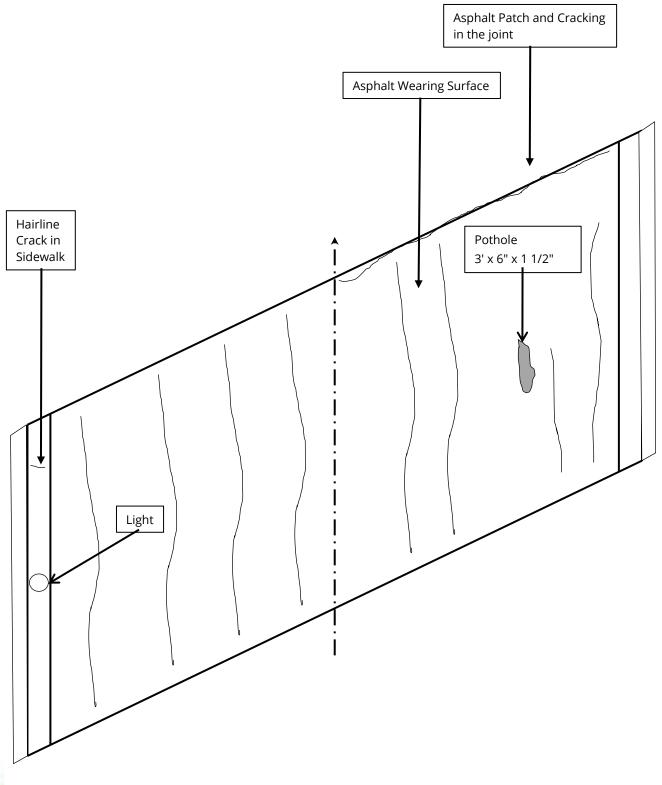
BRIDGE LOCATION NO. 33 __ 3610 _ 1.58 _ (2.06) _ DATE: 09-03-98 COUNTY ROUTE LOG MILE (LOG km)

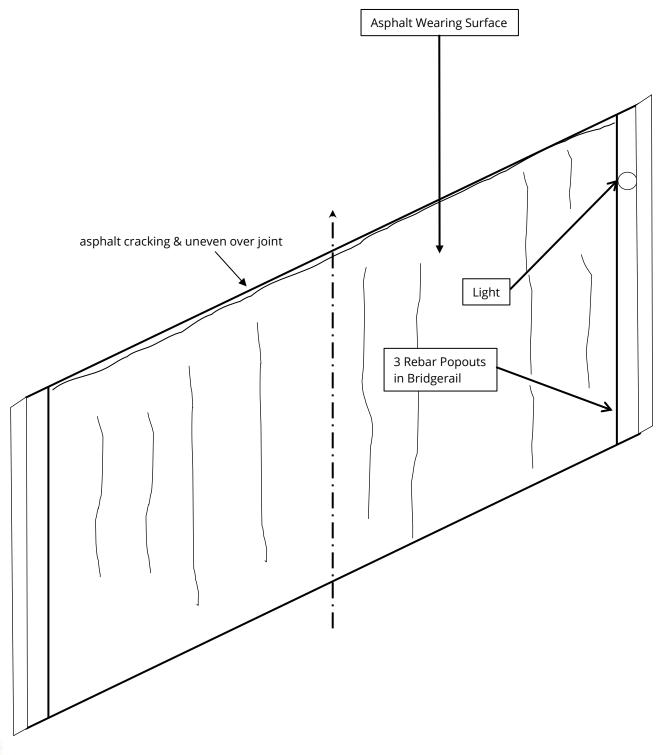
STATION/ LOCATION	TOP OF LT.	GUTTER/ EDGE DECK	CENTERLINE	GUTTER/ EDGE DECK	TOP OF RT. CURB/RAIL
ABUT # 1	697.51	696.83	697.66	697.43	698.18
BENT # 1	698.31	697.55	698.29	697.95	698.75
					400.05
BENT # 2	699.12	698.33	698.90	698.39	699.25
BENT # 3	699.22	698.42	698.81	698.20	698.72
ABUT # 2	699.04	698.10	699.38	698.72	699.40

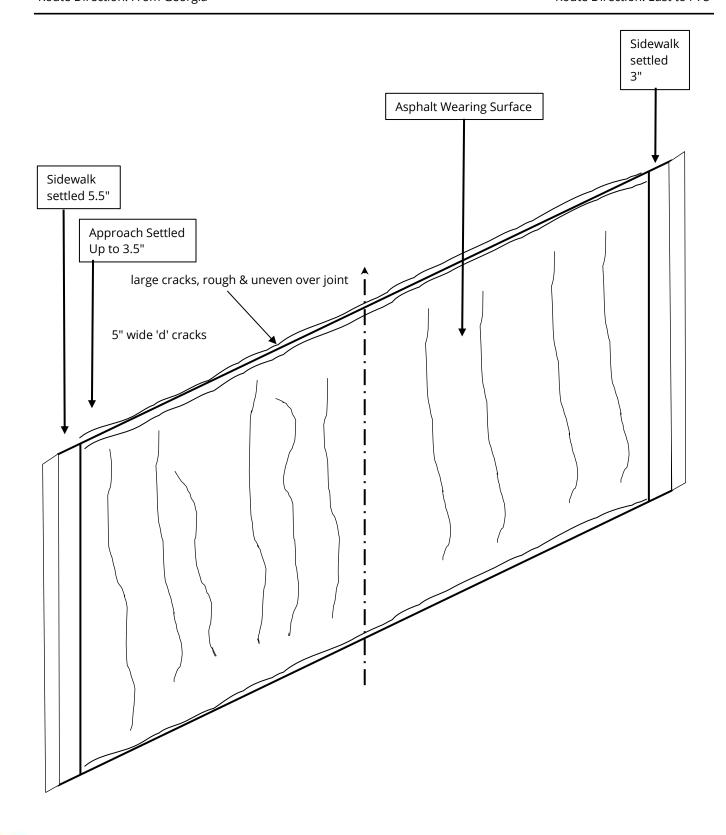
BENCH MARK LOCATION BRIDGE SEAT, ABUT. # 2, RT. SIDE. (NORTH ABUTMENT)

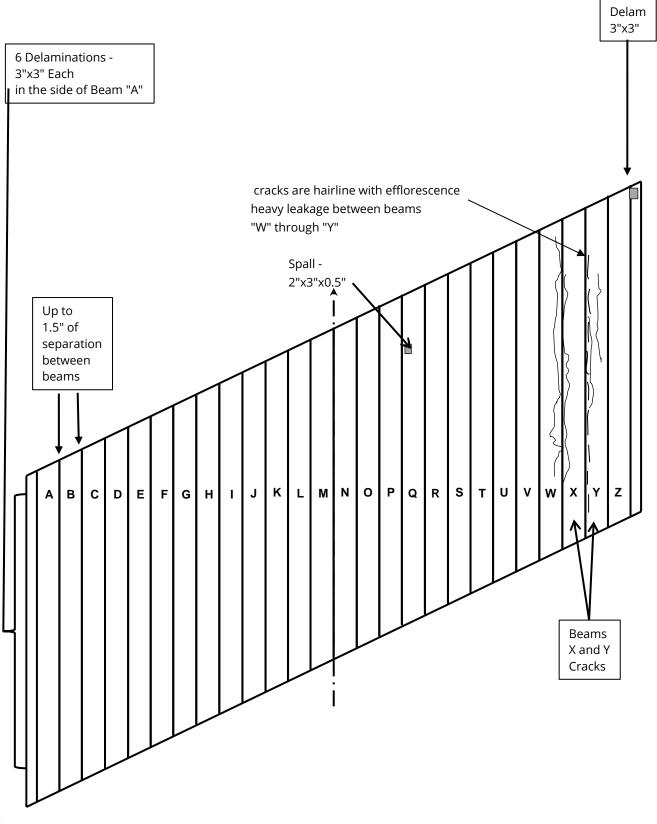
CH MARK ELEVATION 696.11





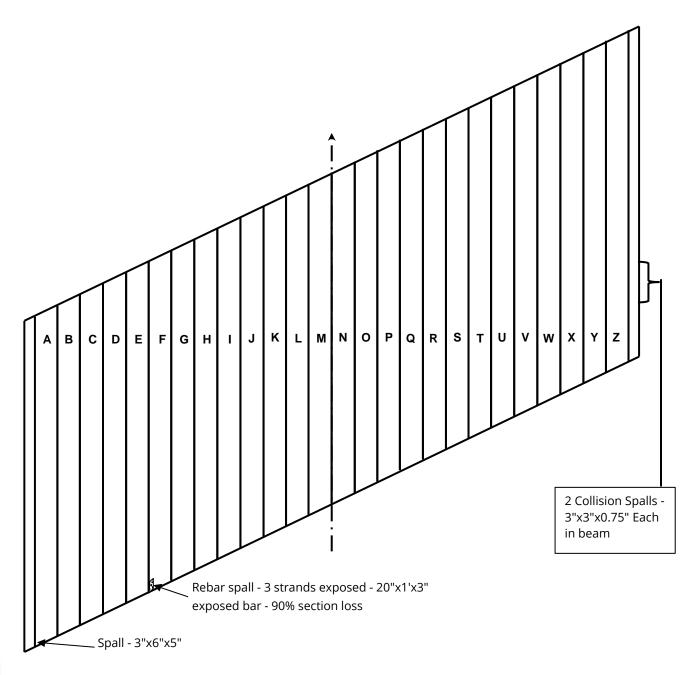






Underpass Route: I-24 Route Direction: East to I-75

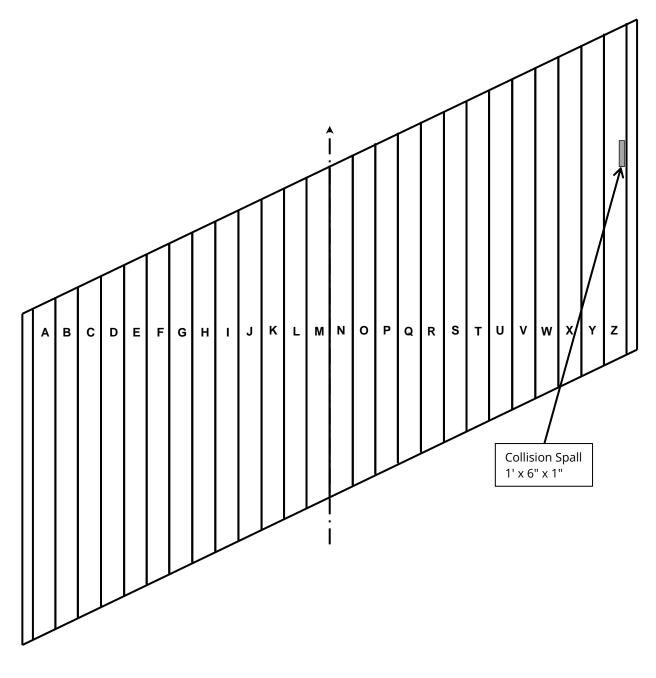
There is leakage between the beams.



Bridge: 33-03610-01.58 Underpass: 33-I0024-13.63

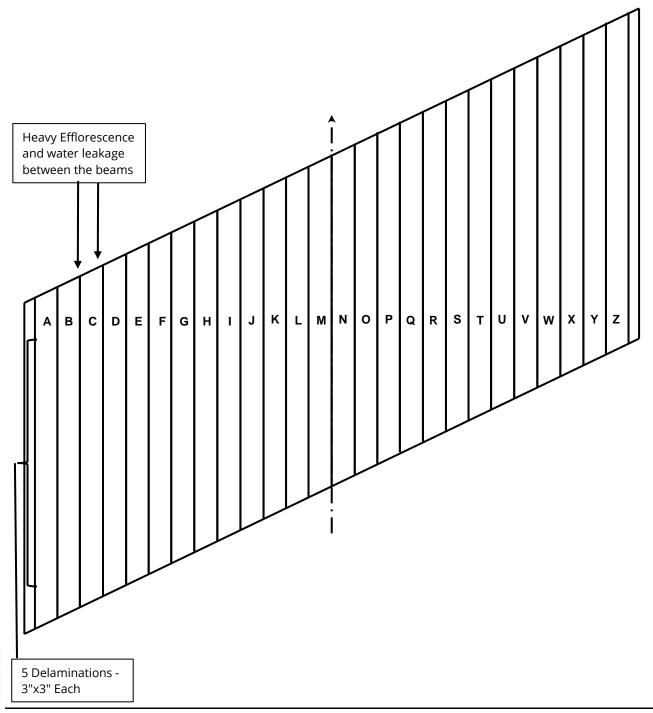
Underpass Route: I-24 Route Direction: East to I-75

There is leakage between the beams.



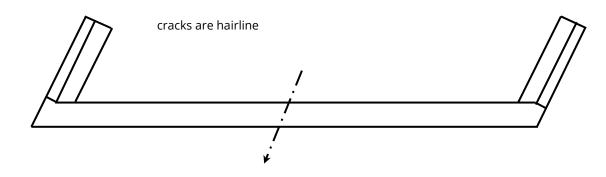
Route Direction: From Georgia

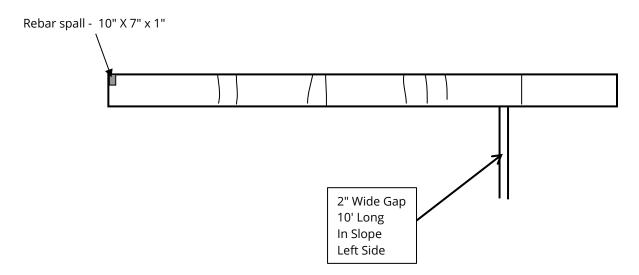
There is leakage between the beams.

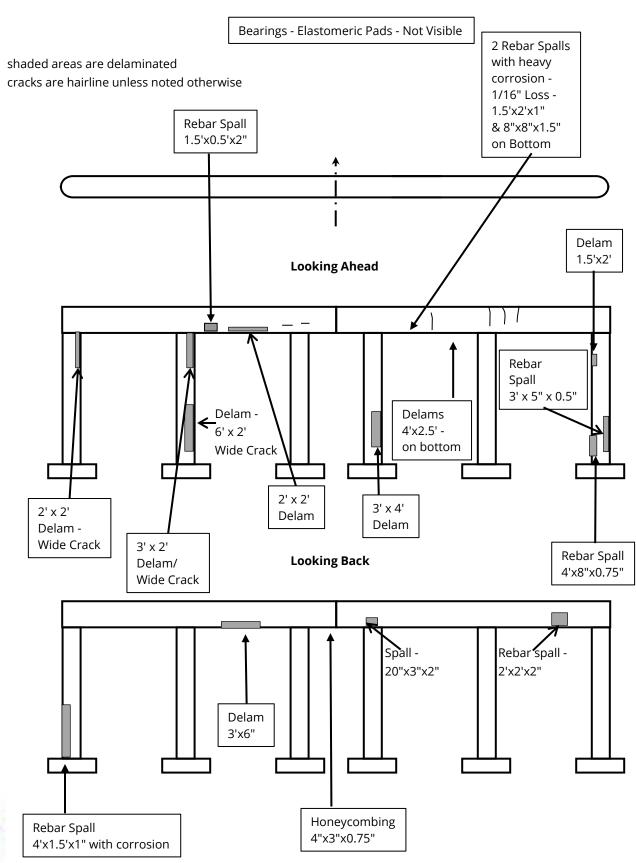


Underpass Route: I-24 Route Direction: East to I-75

Bearings - Elastomeric Pads - Not Visible

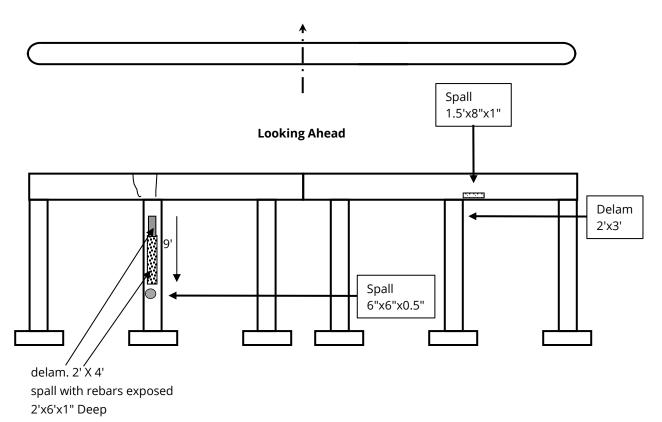




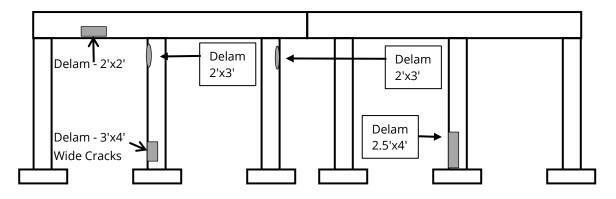


Bridge: 33-03610-01.58 Underpass: 33-I0024-13.63

Bearings - Elastomeric Pads - Not Visible

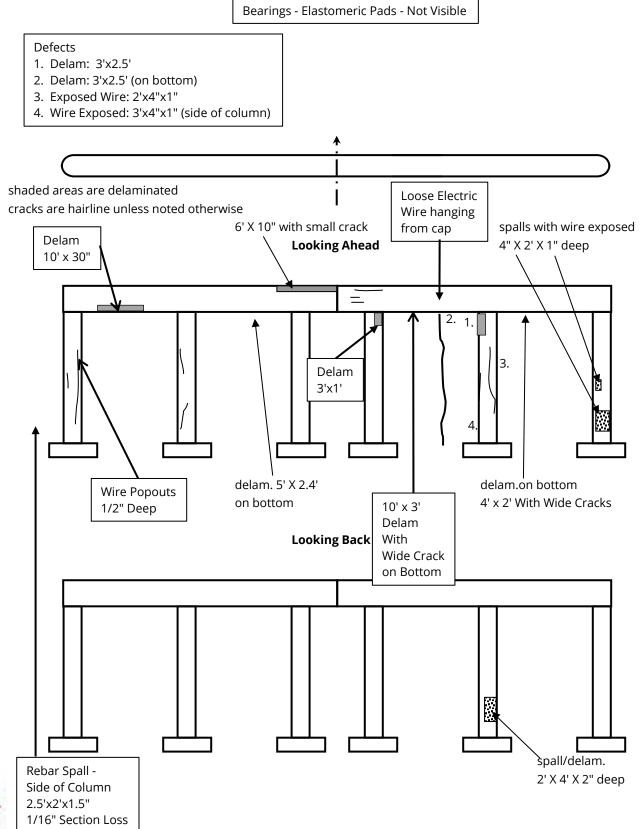


Looking Back

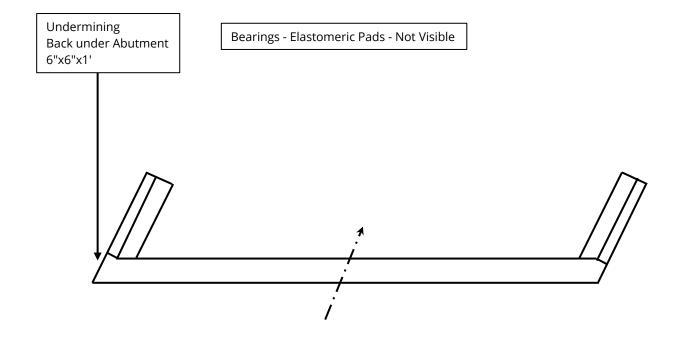


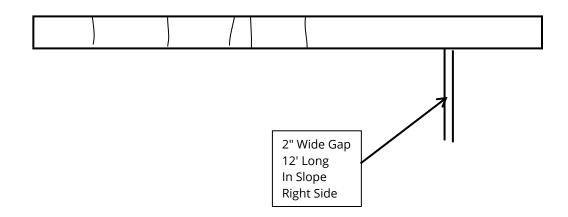
Inspector's Notes: Median wall has collision damage.

Bridge: 33-03610-01.58 Underpass: 33-l0024-13.63

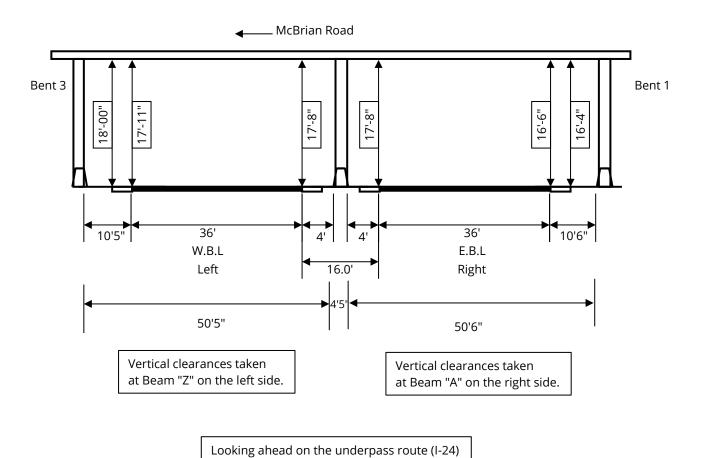


Bridge: 33-03610-01.58 Underpass: 33-I0024-13.63





All cracks are hairline.



*Note: Because of the high traffic volume and the high traffic speeds, on the Eastbound side, only the shoulder clearance measurement (16'4") could be taken safely.

BRIDGE MAINTENANCE RECOMMENDATIONS

COUNTY: HAMILTON

LOCATION: 33-I0024-13.63-

CO. SEQ.: 2 SPEC. CASE: 0

MILEPOST: 184.57

REPAIR LIST NO.: CROSSING: FAU 3610 (MCBRIEN RD)

DATE ADDED: FED. BRIDGE NO.: 33100240061

REVISED: 10/12/2020 MAINT. DIST.: 33

Tennessee Department of Transportation

FACILITY CARRIED:		FAU	J 3610	NUMBER OF MAIN SPANS:			
	02-INT	-INTERSTATE URBAN NUMBER OF APPROACH SPANS:					
BRIDGE WIDTH (CURB TO CURB):		N/AFT	IN	BRIDGE LENGTH (FT):	192		
BRIDGE WIDTH (OUT TO OUT):	-	N/A FT	IN	MAXIMUM SPAN LENGTH (FT):	60		
APPROACH ROADWAY (W/SHOULDERS):	96 FT	1 IN	SKEW ANGLE (DEGREES):	N/A		
	-						
MAINTAINED BY:							
MAIN SPAN MATERIAL:				PRESTRESSED CONCRETE			
MAIN SPAN DESIGN TYPE:		BOX	BEAM	OR GIRDERS - MULTIPLE			
APPROACH SPAN MATERIAL:							
APPROACH SPAN DESIGN TYPE:							
INSPECTION DATE: 10/1	12/2020		(GENERAL CONDITION:	GOOD		
EVALUATION DATE: 11/2	20/2018		5	STRUCTURALLY DEFICIENT:			
PPRM PIN NUMBER:							
H TRUCK RATING @ INV.:	TONS		S	SUFFICIENCY RATING:			
SUGGESTED ROUTINE MAINTENANCE	AND COM	MENTS					
INDERPASS SUBSTRUCTURE PROTECT	ION BAR	RIER RAI	L IS S	UBSTANDARD			

CIICCECEED	DOMESTRE	MAINTENANCE	7 3 TT	COMMENTER
ついひひをひょむひ	KOULTNE	MATHICINANCE	AND	COMMENTS

UNDERPASS SUBSTRUCTURE TRANSITIONS ARE SUBSTANDARD

REPAIR APPROACH RAIL AT APPROACH #1, RIGHT

GENERAL COMMENTS:



Underpass Condition Coding Form

Revised 10/20/2020

County:	33

Route: 10024

Special Case: 0

B	ridge Number:	331	002400612					Spe	ciai Case.		U
(Inc	ludes Item 5A)							County S	Sequence:		2
Featu	re Intersected:	FAU 3610	(MCBRIEN	NRD)			Log Mile:			13	3.63
CODE	ONLY THOS	SE VALUES WHIC	CH HAVE	СНА	NGED						
	DESCRIPTIO			VAL		•	UND	DERPASS SA	AFETY FE	ATU	RES
90	LAST INSPECT	TON DATE	<u> </u>	0/12/	2020	1					
	EARLIEST DAT			8/13/		i	515 ((A) TYPE UN	DERPASS	BARI	RIER
	NEXT REGULAR INS	PECTION		/	/	-			NATION OI RETE BAR RAIL		
10	MINIMUM V.C.	OVER	16	FT.	4	IN.	-	Revis	ed Barrier T	Гуре	
	DECK (ROADWAY + S	HOULDERS)		FT.		IN.					
							`	(B) ADEQUA BARRIEI	CY OF R OR RAIL		0
520	MINIMUM V.C. (EXCLUDES SH		16	FT.		IN.					
		,		F 1.		IN.		CO ADEQUA	CVOE		
47	TOTAL		50	FT.	6	IN.	`	(C) ADEQUACY OF TRANSITIONS			0
47	HORIZONTAL	ANCE				IN.					
	UNDERCLEAR	ANCE					(D) ADEQUA	CVOF		1
54	MINIMUM VER (EXCLUDES SE	RTICAL UNDERCLEAR	RANCE				(TERMIN			1
	(EXCECUES SI		R 16	FT.	6	IN.					
								VERTICAL C		E	
55	MINIMUM LAT	TERAL						LISTED ON I POSTING	HEIGHT		
33	UNDERCLEAR	ANCE ON RIGHT							FT.		IN.
	SIDE	Circle One: H F	<u> 10</u>	FT.	5	IN.			FT.		IN.
							16	LATITUDE	17	LON	GITUD
56	MINIMUM LAT	TERAL ANCE ON LEFT	4	FT.	0	IN.		N 35° .289	0' W	85°	13.6240
	SIDE	ANCE ON LEFT		г1.		IIN.	-				
531	OVER ALL CON	DIELON	COOR							,	YES[]
521	OVERALL CON	NDITION	GOOD					HEIGHT P BOTH	OSTED AT		NO []
								APPROAC	HES?		N/A [X]
555	COMMENTS										
555	COMMENTS _										
	_										
	_										

Fight Figh
DT-1443 Stringe No. 33100240061 Eleven Digit No. Underpass Route I - 24
Bridge No. 33100240061 Eleven Digit No. Underpass Route I - 24
Eleven Digit No. Highway
Highway
Overhead Structure County Hamilton Type of Underpass: Highway Year Constructed 1958 Year Rehabilitated GEOMETRIC FEATURES UNDER BRIDGE Divided Highway LEFT - WEST BOUND LANE Type of Wearing Surface Width of Approach Traveled Roadway Width of Median if Divided Highway 4.4 ft. Approach Shoulder Width 10.4 ft. Right 4.0 ft. Left *Horizontal Clearance Under Bridge *Distance Between Pier Protection Guardrail and Substructure NA ft. Right NA ft. Right NA ft. Left *Width of Sidewalk Under Bridge NA ft. Right NA ft. Left *Minimum Vertical Clearance: 17 ft 8 in Location: SPAN 2 - BEAM "Z" - YELLOW LINE (LEFT) TRAFFIC SAFETY FEATURES Barrier Type: TRIMS Item 515A Combination Metal and Concrete Adequacy Rating Nonstandard Pier Protection Item 515B - 0 GOOD Nonstandard Approach Rail Ferminal Item 515C - 0 GOOD Nonstandard Terminal Item 515D - 1 GOOD Standard J. Edwards J. Edwards
Year Constructed 1958 Year Widened Year Rehabilitated GEOMETRIC FEATURES UNDER BRIDGE (** *ft. unless otherwise noted) Divided Highway LEFT - WEST BOUND LANE Type of Wearing Surface CONCRETE Width of Approach Traveled Roadway 36.0 ft. (Does Not Include Shoulders) Width of Median if Divided Highway 4.4 ft. Approach Shoulder Width 10.4 ft. Right 4.0 ft. Left *Horizontal Clearance Under Bridge 50.4 ft. *Distance Between Pier Protection Guardrail and Substructure NA ft. Right NA ft. Left *Width of Sidewalk Under Bridge NA ft. Right NA ft. Left *Width of Sidewalk Under Bridge NA ft. Right NA ft. Left *Minimum Vertical Clearance: 17 ft 8 in Location: SPAN 2 - BEAM "Z" - YELLOW LINE (LEFT) TRAFFIC SAFETY FEATURES Barrier Type: TRIMS Item 515A Combination Metal and Concrete Adequacy Rating Standard / Nonstandard Transitions Item 515B - 0 GOOD Nonstandard Transitions Item 515C - 0 GOOD Nonstandard Approach Rail GOOD Standard Item 515D - 1 GOOD Standard J. Edwards
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Year Widened Year Rehabilitated GEOMETRIC FEATURES UNDER BRIDGE (*.* ft. unless otherwise noted) Divided Highway LEFT - WEST BOUND LANE Type of Wearing Surface CONCRETE Width of Approach Traveled Roadway 36.0 ft. (Does Not Include Shoulders) Width of Median if Divided Highway 4.4 ft. Approach Shoulder Width 10.4 ft. Right 4.0 ft. Left *Horizontal Clearance Under Bridge 50.4 ft. Right NA ft. Left *Distance Between Pier Protection Guardrail and Substructure NA ft. Right NA ft. Left *Width of Sidewalk Under Bridge NA ft. Right NA ft. Left *Winimum Vertical Clearance: 17 ft 8 in Location: SPAN 2 - BEAM "Z" - YELLOW LINE (LEFT) TRAFFIC SAFETY FEATURES Barrier Type: TRIMS Item 515A Combination Metal and Concrete Adequacy Rating Standard / Nonstandard S. Davis Fier Protection Item 515B - 0 GOOD Nonstandard S. Davis Transitions Item 515C - 0 GOOD Nonstandard INSPECTORS Approach Rail Item 515D - 1 GOOD Standard J. Edwards
GEOMETRIC FEATURES UNDER BRIDGE Divided Highway LEFT - WEST BOUND LANE Type of Wearing Surface CONCRETE Width of Approach Traveled Roadway Width of Approach Traveled Highway 4.4 ft. Approach Shoulder Width 10.4 ft. Right *Horizontal Clearance Under Bridge *Divided Highway *Divided Highwa
Divided Highway LEFT - WEST BOUND LANE 7 Type of Wearing Surface CONCRETE Width of Approach Traveled Roadway 36.0 ft. (Does Not Include Shoulders) Width of Median if Divided Highway 4.4 ft. Approach Shoulder Width 10.4 ft. Right 4.0 ft. Left *Horizontal Clearance Under Bridge 50.4 ft. *Distance Between Pier Protection Guardrail and Substructure NA ft. Right NA ft. Left *Width of Sidewalk Under Bridge NA ft. Right NA ft. Left *Minimum Vertical Clearance: 17 ft 8 in Location: SPAN 2 - BEAM "Z" - YELLOW LINE (LEFT) *TRAFFIC SAFETY FEATURES Barrier Type: TRIMS Item 515A Combination Metal and Concrete Adequacy Rating Standard / Nonstandard Transitions Item 515B - 0 GOOD Nonstandard Approach Rail GOOD Nonstandard Terminal Item 515D - 1 GOOD Standard
Width of Approach Traveled Roadway Width of Median if Divided Highway 4.4 ft. Approach Shoulder Width 10.4 ft. Right *Horizontal Clearance Under Bridge *Distance Between Pier Protection Guardrail and Substructure NA ft. Right *Width of Sidewalk Under Bridge NA ft. Right *Minimum Vertical Clearance: 17 ft 8 in Location: SPAN 2 - BEAM "Z" - YELLOW LINE (LEFT) *TRAFFIC SAFETY FEATURES Barrier Type: TRIMS Item 515A Combination Metal and Concrete Adequacy Rating Nonstandard Fier Protection Item 515B - 0 GOOD Nonstandard Approach Rail Transitions Item 515C - 0 GOOD Nonstandard Approach Rail GOOD Standard Terminal Item 515D - 1 GOOD Standard J. Edwards
Width of Median if Divided Highway Approach Shoulder Width 10.4 ft. Right *Horizontal Clearance Under Bridge *Distance Between Pier Protection Guardrail and Substructure NA ft. Right *Width of Sidewalk Under Bridge NA ft. Right *Minimum Vertical Clearance: 17 ft 8 in Location: *SPAN 2 - BEAM "Z" - YELLOW LINE (LEFT) *TRAFFIC SAFETY FEATURES Barrier Type: TRIMS Item 515A Combination Metal and Concrete Adequacy Rating Nonstandard Pier Protection Item 515B - 0 GOOD Nonstandard Transitions Item 515C - 0 GOOD Nonstandard Approach Rail GOOD Standard Terminal Item 515D - 1 GOOD Standard
Approach Shoulder Width 10.4 ft. Right 4.0 ft. Left *Horizontal Clearance Under Bridge 50.4 ft. *Distance Between Pier Protection Guardrail and Substructure NA ft. Right NA ft. Left *Width of Sidewalk Under Bridge NA ft. Right NA ft. Left *Minimum Vertical Clearance: 17 ft 8 in Location: SPAN 2 - BEAM "Z" - YELLOW LINE (LEFT) *TRAFFIC SAFETY FEATURES Barrier Type: TRIMS Item 515A Combination Metal and Concrete Adequacy Rating Standard / Nonstandard Pier Protection Item 515B - 0 GOOD Nonstandard Transitions Item 515C - 0 GOOD Nonstandard Approach Rail GOOD Nonstandard Terminal Item 515D - 1 GOOD Standard
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#Width of Sidewalk Under Bridge NA ft. Right NA ft. Left *Width of Sidewalk Under Bridge NA ft. Right NA ft. Left *Minimum Vertical Clearance: 17 ft 8 in Location: SPAN 2 - BEAM "Z" - YELLOW LINE (LEFT) **TRAFFIC SAFETY FEATURES** Barrier Type: TRIMS Item 515A Combination Metal and Concrete Adequacy Rating Standard / Nonstandard Pier Protection Item 515B - 0 GOOD Nonstandard Transitions Item 515C - 0 GOOD Nonstandard Approach Rail GOOD Nonstandard Terminal Item 515D - 1 GOOD Standard Terminal Item 515D - 1 GOOD Standard Terminal Item 515D - 1 GOOD Standard **NA ft. Left NA ft. Left
*Width of Sidewalk Under Bridge NA ft. Right NA ft. Left *Minimum Vertical Clearance: 17 ft 8 in Location: SPAN 2 - BEAM "Z" - YELLOW LINE (LEFT) TRAFFIC SAFETY FEATURES Barrier Type: TRIMS Item 515A Combination Metal and Concrete Adequacy Rating Standard / Nonstandard Pier Protection Item 515B - 0 GOOD Nonstandard Transitions Item 515C - 0 GOOD Nonstandard Approach Rail GOOD Nonstandard Terminal Item 515D - 1 GOOD Standard Terminal Item 515D - 1 GOOD Standard
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Adequacy Rating Standard / Nonstandard Pier Protection Item 515B - 0 GOOD Nonstandard Transitions Item 515C - 0 GOOD Nonstandard Approach Rail GOOD Nonstandard Terminal Item 515D - 1 GOOD Standard J. Edwards
Pier Protection Item 515B - 0 GOOD Nonstandard S. Davis Transitions Item 515C - 0 GOOD Nonstandard Approach Rail GOOD Nonstandard Terminal Item 515D - 1 GOOD Standard Terminal Standard J. Edwards Terminal Item 515D - 1 GOOD Standard J. Edwards Terminal Item 515D - 1 GOOD Standard J. Edwards Terminal Item 515D - 1 GOOD Standard J. Edwards Terminal Item 515D - 1 GOOD Standard J. Edwards Terminal Item 515D - 1 GOOD Standard J. Edwards J. Edwards Terminal Item 515D - 1 GOOD Standard J. Edwards J. Edwar
Pier Protection Item 515B - 0 GOOD Nonstandard S. Davis Transitions Item 515C - 0 GOOD Nonstandard Approach Rail GOOD Nonstandard Terminal Item 515D - 1 GOOD Standard J. Edwards
Transitions Item 515C - 0 GOOD Nonstandard Approach Rail GOOD Nonstandard Terminal Item 515D - 1 GOOD Standard J. Edwards
Terminal Item 515D - 1 GOOD Standard J. Edwards
reminal Item 515D - 1 GOOD Standard
SIGNING Yes/ No/ Needed W. Spencer
Paddleboards NO
Vertical Clearance (<14'-6")
Narrow Passage NO
One Lane Passage NO
Other Signs or Plaques:

Page 2 of 2						Pa	age No	
Form BIR 3.0A (Continu	ied)					Date	10/12/	′2020
(Rev. 9-22-98)						33 - 1002	.4 - 1363	}
DT-1443						Underpass L		
BRIDGE FEATURES	(*.* ft.)							
Bridge Skew	68° - RT	_		Num	ber of Lanes/	Tracks on Bridg	зе	5
Structure Type (Main Sp	pan)	Prestressed	/ Post-te	nsioned Box Bea	m / Girders -	No. Main S	pans _	4
Structure Type (Appr.Տր	pans)	<u> </u>				No. Appr. S	spans _	
Maximum Span Length	ı <u> </u>	60.0	(ft.)	Total Length	192.0	(ft.)		
Width of Bridge Out-to-	-Out _	79.5	(ft.)	Right Angle to Ce	enterline of Br	ridge)		
				(If Unable to Mea Centerline of Brid		: Angle to		
UNDERPASS RATING:	GOO	י סכ	TRIMS Iter	m 521				
\Box Potential for bridge ϵ	elements fa	alling on to ro	adway be	low				
\Box Potential is due to fa	ailure of ma	ajor members						
Underpass Inspection (Comments							
								ļ

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

Page 1 of 2 Form BIR 3.04 (Rev. 9-22-98) DT-1443	4	iss I	<u>nspect</u>	ion Repo	<u>rt</u>	Field Previous	•	No. 25 No. 24		Date Date	10/12/2020
Bridge No.	33I00240061 Eleven Digit No			22 02610	0150	Underpass			04 1:	262 D	
Railro	oad/Walkway	<u> </u>		33 - 03610 - Bridge Loca			over	33 - 1002 Und			ation No.
County	Hamilton			Bridge Loci		pe of Under	rnacc.				
Year Constru	 cted 195	8			ı y	pe or orider	ρα33.				
Year Widened	b		_	Year I	Rehabi	litated					
GEOMETRIC	FEATURES UNDER	R BRII	OGE	(*.	* ft. un	less otherwi	se note	d)	_		
Divided High			BOUND L		,	Type of We				C	ONCRETE
Width of App	roach Traveled Ro	adwa	у	36.0	ft.	(Does Not	Include	e Shoulde	ers)		
Width of Med	lian if Divided High	ıway	-	4.4	ft.						
Approach Sho	oulder Width		-	10.5	ft.	Right		4	ft.	Left	
*Horizontal C	Clearance Under B	ridge	-	50.5	ft.						
*Distance Bet and Substruc	tween Pier Protect ture	ion G	uardrail	NA	ft.	Right		NA	ft.	Left	
*Width of Sid	ewalk Under Bridg	ge		NA	ft.	Right		NA	ft.	Left	
*Minimum Ve	ertical Clearance:			16 ft 04	in	Location:	BEAN	1 "B" - SPA	— AN 1 -	RIGHT	SHOULDER
TRAFFIC SAF	ETY FEATURES		-			•					
Barrier Type	: TRIMS Item 515A										
		Ad	dequacy	Rating		ndard / standard			1	TEAN	
	Pier Protection	Iten	า 515B - 0	GOOD		standard					<u>I LEADER</u>
	Transitions	Iten	า 515C - 0	GOOD	Non	standard					Davis
	Approach Rail			GOOD	Non	Standard					<u>ECTORS</u>
	Terminal	lten	n 515D - 1	GOOD	Sta	andard				-	dwards
<u>SIGNING</u>			Yes/ N	o/ Needed						W. S	Spencer
Paddleboa	ards			NO	7						
Vertical Cle	earance (<14'-6")			NO							
Narrow Pa	issage			NO							
One Lane	Passage			NO							
Other Signs o	or Plaques:	•			_						
Other Under	pass Signs Needed	l									

PRODUCED PURSUANT TO PUBLIC RECORDS REQUEST. This document is covered by 23 USC \$409 And its production pursuant to a public document records request does not waive the provisions of \$409

Other Underpass Signs Needed

Problems with Signs:

Page 2 of 2							Р	age No	•
Form BIR 3.0A (Continue	ed)						Date	10/12	2/2020
(Rev. 9-22-98) DT-1443							33 - 10024	- 1363	- R
D1 1443							Underpass I	Location	า No.
BRIDGE FEATURES	(*.* ft.)								
Bridge Skew	68° - RT				Numbe	er of Lanes/	Tracks on Brid	ge	5
Structure Type (Main Sp	an)	Prestress	ed / Post	-tensioned	Box Beam	/ Girders -	No. Main S	pans _	4
Structure Type (Appr.Sp	ans)			No. Appr. Spar					
Maximum Span Length	60.0	(ft.	.) Total L	ength	192.0	(ft.)			
Width of Bridge Out-to-	79.5 (ft.) Right Angle to Centerline of Bridge)								
					ble to Meas line of Bridg	ure at Right ge)	Angle to		
UNDERPASS RATING:	GOO	D	TRIMS I	tem 521					
☐ Potential for bridge e	elements fa	ılling on to	roadway	below					

Underpass Inspection Comments

 \square Potential is due to failure of major members

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

Structure Inventory and Appraisal Sheet (English Units)

Bridge Key: 33100240061 Agency ID: 33100240061 SR: 96.6 SD/FO: ND

ſ	IDENTIF	ICATION		
State 1:	47 Tennessee	Struc Num 8:	33100	0240061
Facility Carried 7:	FAU 3610	Location 9:	IN EAS	T RIDGE
Rte.(On/Under) 5A:	Route On Structure	Rte. Signing Prefix 5	5B:	5 City Street
Level of Service 5C:	1 Mainline	Route Number 5D:		03610
Directional Suffix 5E:	0 N/A (NBI)	% Responsibility:		Unknown
SHD District 2:	Region 2	County Code 3:		Hamilton
Place Code 4:	East Ridge	Mile Post 11:		1.580 mi
Feature Intersected 6:	MCBRIEN RD / I-24			
Latitude 16:	35° 00' 17"	Longitude 17:		085° 13' 37"
Border Bridge Code 98:	Unknown (P)			
Border Bridge Number 99	9: Unknown			

STRUCTURE TYPE AND MATERIALS								
Number of Approach Spans 46:	0	Number of Spans Main Unit 45:	4					
5 Prestressed Concrete								
Deck Type 107:	9 Other							
Wearing Surface 108A:	6 Bituminous							
Membrane 108B:	8 Unknown							
Deck protection 108C:	None							

AGE AND SERVICE								
Year Built 27:		1959	Year F	teconstructed 106:	-1			
Type of Service of	n 42A:	5 Highway-pedestria	n					
Type of Service u	ınder 42B:	1 Highway						
Lanes on 28A:	5	Lanes under 28B:	6	Detour Length 19:	0.6 mi			
ADT 29:	8,790	Truck ADT 109:	2%	Year of ADT 30:	2014			

GEOMETRIC DATA							
Length Max Span 48:	60.04 ft	Structure Length 4	19:	191.93 ft			
Curb/Sdwlk Width L 50A:	5.91 ft	Curb/Sidewalk Wi	5.58 ft				
Width Curb to Curb 51:	67.91 ft	Width Out to Out 5	79.40 ft				
Approach Roadway width 32: (w/ shoulders)	47.90 ft	Median 33:		0 No median			
Deck Area: 15,238.50 sq. ft							
Skew 34: 22.00°	Structure Flared 3	5:	0 No flare				
Vertical Clearance 10:	99.99 ft	Horizontal Clearar	67.91 ft				
Minimum Vertical Clearance Ove	r Bridge 53:	99	.99 ft				
Minimum Vertical Underclearance	e Reference 54A	с Н	Hwy beneath	struct			
Minimum Vertical Underclearance 54B: 16.50 ft							
Minimum Lateral Underclearance Reference R 55A: H Hwy beneath struct							
Minimum Lateral Underclearance R 55: 10.17 ft							
Minimum Lateral Underclearance	L 56:	5.9	11 ft				

INSPECTION								
Frequency 91:	24 months	Inspection Date 90:	10/12/2020	Next Inspection:	10/12/2022			
FC Frequency 92A:		FC Inspection Date 93A:	NA	Next FC Inspection:	NA			
UW Frequency 92B:		UW Inspection Date 93B:	NA	Next UW Inspection:	NA			
SI Frequency 92C:		SI Date 93C:	NA	Next SI:	NA			
Element Frequency:	24 months	Element Insp. Date:	10/12/2020	Next Elem. Insp.:	10/12/2022			

CLASSIFICATION									
Defense Highway 100:	0 Not a STRAHNET hwy	Parallel Structure 101:	No bridge exists						
Direction of Traffic 102:	2 2-way traffic	Temporary Structure 103:	Unknown (NBI)						
Highway System 104:	0 Not on NHS	NBIS Length 112:	Long Enough						
Toll Facility 20:	3 On free road	Functional Class 26:	16 Urban Minor Arterial						
Defense Hwy 110:	0 Not a STRAHNET hwy	Historical Significance 37:	4 Hist sign not determin						
Owner 22:	01 State Highway Agency								
Custodian 21:	01 State Highway Agency								

			CONDITION		
Deck 58:	6 Satisfactory	Super 59:	5 Fair	Sub 60:	5 Fair
Culvert 62:	N N/A (NBI)	Ch	annel/Channel Protection 61:	N N/A	(NBI)
l					

	LOAD RATIN	G AND POSTING	
Inventory Rating Method 65:	B ASD (metric tons)	Operating Rating Method 63:	B ASD (metric tons)
Inventory Rating 66:	HS21.8	Operating Rating 64:	HS29.7
Design Load 31:	6 MS18(HS20)+mod	Posting 70:	5 At/Above Legal Loads
Posting Status 41:	A Open, no restriction		

APPRAISAL							
Bridge Rail 36A: 0 Substandard		Approach Rail 36C:	N N/A or not required				
Transition 36B:	N N/A or not required	Approach Rail Ends 36D:	N N/A or not required				
Str Evaluation 67:	Str Evaluation 67: 6 Equal Min Criteria		5 Above Tolerable				
Underclearance, Vertical	and Horizontal 69:	4 Tolerable					
Waterway Adequacy 71: N Not applicable		Approach Alignment 72:	8 Equal Desirable Crit				
Scour Critical 113:	N Not Over Waterway						

PROPOSED IMPROVEMENTS								
Bridge Cost 94:	\$-2	Type of Work 75:	Unknown (P)					
Roadway Cost 95:	\$-1	Length of Improvement 76:	-1.0 ft					
Total Cost 96:	\$-1	Future ADT 114:	14,064					
Year of Cost Estimate 97:	Unknown	Year of Future ADT 115:	2034					

	NAVIGATION DATA						
Navigation Control 38:	NA-no waterway						
Vertical Clearance 39:	0.0 ft	Horizontal Clearance 40:	0.0 ft				
Pier Protection 111:	Unknown (NBI)	Lift Bridge Vertical Clearance 116:					

33100240061

Structure Inventory and Appraisal Sheet (English Units)

06-11-2	T =: /=		11.2	I =		01 01 1	0/ : 0	01 01 6	0/ : 6	04 04 0	0/ :- /	01 01 1
Str Unit	Elm/Env	Description	Unit	Total Qty	% in 1	Qty. St. 1	% in 2	Qty. St. 2	% in 3	Qty. St. 3	% in 4	Qty. St. 4
0	104/3	Pre Clsd Box Girder	ft	4,992.00	91%	4,523.00	9%	466.00	0%	3.00	0%	0.00
0	1080/3	Delamination/Spall/Patched Area	ft	17.00	0%	0.00	94%	16.00	6%	1.00	0%	0.00
0	1090/3	Exposed Rebar	ft	2.00	0%	0.00	0%	0.00	100%	2.00	0%	0.00
0	1110/3	Cracking (PSC)	ft	100.00	0%	0.00	100%	100.00	0%	0.00	0%	0.00
0	1120/3	Efflorescence/Rust Staining	ft	350.00	0%	0.00	100%	350.00	0%	0.00	0%	0.00
0	205/3	Re Conc Column	each	18.00	39%	7.00	33%	6.00	28%	5.00	0%	0.00
0	1080/3	Delamination/Spall/Patched Area	each	5.00	0%	0.00	40%	2.00	60%	3.00	0%	0.00
0	1090/3	Exposed Rebar	each	3.00	0%	0.00	67%	2.00	33%	1.00	0%	0.00
0	1130/3	Cracking (RC and Other)	each	3.00	0%	0.00	67%	2.00	33%	1.00	0%	0.00
0	215/3	Re Conc Abutment	ft	171.00	99%	169.00	1%	1.00	1%	1.00	0%	0.00
0	1080/3	Delamination/Spall/Patched Area	ft	1.00	0%	0.00	0%	0.00	100%	1.00	0%	0.00
0	1130/3	Cracking (RC and Other)	ft	13.00	100%	13.00	0%	0.00	0%	0.00	0%	0.00
0	4000/3	Settlement	ft	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00
0	234/3	Re Conc Pier Cap	ft	133.00	73%	97.00	21%	28.00	6%	8.00	0%	0.00
0	1080/3	Delamination/Spall/Patched Area	ft	32.00	0%	0.00	81%	26.00	19%	6.00	0%	0.00
0	1090/3	Exposed Rebar	ft	2.00	0%	0.00	0%	0.00	100%	2.00	0%	0.00
0	1130/3	Cracking (RC and Other)	ft	4.00	50%	2.00	50%	2.00	0%	0.00	0%	0.00
0	313/3	Fixed Bearing	each	104.00	100%	104.00	0%	0.00	0%	0.00	0%	0.00
0	316/3	Other Bearing	each	104.00	100%	104.00	0%	0.00	0%	0.00	0%	0.00
0	331/3	Re Conc Bridge Railing	ft	384.00	100%	382.00	1%	2.00	0%	0.00	0%	0.00
0	1130/3	Cracking (RC and Other)	ft	1.00	100%	1.00	0%	0.00	0%	0.00	0%	0.00
0	7000/3	Damage	ft	2.00	0%	0.00	100%	2.00	0%	0.00	0%	0.00

33100240061