

BRIDGE MAINTENANCE RECOMMENDATIONS

COUNTY: HAMILTON

LOCATION: 33-I0024-12.08-

CO. SEQ.: 2 SPEC. CASE: 0

MILEPOST: 183.05

CROSSING: GERMANTOWN RD (FAU 3577)

FED. BRIDGE NO.: 33100240055

MAINT. DIST.: 33



REPAIR LIST NO.:

DATE ADDED: 07/08/2014

REVISED: 10/06/2016 124 NUMBER OF MAIN SPANS: FACILITY CARRIED: 02-INTERSTATE URBAN NUMBER OF APPROACH SPANS: 0 HIGHWAY SYSTEM: BRIDGE WIDTH (CURB TO CURB): 78 FT 1 IN BRIDGE LENGTH (FT): 166 BRIDGE WIDTH (OUT TO OUT): 100 FT 4 IN MAXIMUM SPAN LENGTH (FT): 46 APPROACH ROADWAY (W/SHOULDERS): 78 FT 1 IN SKEW ANGLE (DEGREES): 79 MAINTAINED BY: STATE HIGHWAY AGENCY MAIN SPAN MATERIAL: CONCRETE MAIN SPAN DESIGN TYPE: TEE BEAM APPROACH SPAN MATERIAL: OTHER OR NOT APPLICABLE APPROACH SPAN DESIGN TYPE: OTHER OR NOT APPLICABLE GENERAL CONDITION: ______
STRUCTURALLY DEFICIENT: INSPECTION DATE: 10/04/2016 GOOD 11/04/2014 EVALUATION DATE: YES PPRM PIN NUMBER: H TRUCK RATING @ INV.: 20 TONS SUFFICIENCY RATING: 30.9

SUGGES	STED	ROUTINE	MAINTENANCE AND COMMENTS
LEVEL	THE	WEARING	SURFACE
LEVEL	THE	WEARING	SURFACE AT APPROACH NO. 1 & 2 - WESTBOUND

GENERAL COMMENTS:

BRIDGE REPAIR WAS LET ON 02/03/2006 (CONTRACT # CNE084, PIN # 105708.00)



Bridge Condition Coding Form

Revised 10/06/2016

County: 33 DEPARTMENT OF TRANSPORTATION **Route: I0024** Bridge Number: 331002400551 (Includes Item 5A) **Special Case:** 0 **Feature Intersected: GERMANTOWN RD (FAU 3577) County Sequence:** 2 Log Mile: 12.08 **Evaluation Status: CONDITION ITEM CHANGE**

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

	DESCRIPTION DESCRIPTION		ALUE		
90	LAST INSPECTION DATE	10	/04/20	16	1
	EARLIEST DATE OF		3/05/20		1
	NEXT REGULAR INSPECTION		/ / /	10	J
10	MINIMUM V.C. OVER DECK	99	FT. FT	99	IN. IN.
520	(ROADWAY + SHOULDERS) MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	99	FT	99	IN. IN.
36	TRAFFIC SAFETY FEATURES Br. Rail Trans. Appr. Rail To 1 0 0	ermina 0	l SPI	EED LI 55	МІТ
41	STRC OPEN/CLOSED/POSTED A K P		A		_
58	DECK		7		
59	SUPERSTRUCTURE		6		
60	SUBSTRUCTURE		7		
61	CHANL/CHANL PROTECTION				
62	CULVERT AND RETAIN WALL		N		
71	WATERWAY ADEQUACY		N		
72	APPROACH RDWY ALIGNMENT	•	8		
521	OVERALL CONDITION		GOO	D	
	LATITUDE 17 LONGITUI N 35° .8590' W 85° 15.1300				_
				/	•
T	EAM LEADER SIGNATURE	F	REVIEW	V DAT	Ľ

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.

Bridge ID#: 33I00240055 Date: 10/04/2016



#1 RIGHT SIDE



LOOKING AHEAD ON STRUCTURE



CLEARANCE AHEAD



CLEARANCE-BACK



RIGHT SIDEVIEW - AHEAD



LEFT SIDEVIEW - BACK



SUPER/SUB STRUCTURE - SPAN 2 - TYPICAL



SUPER/SUB STRUCTURE - ABUTMENT 1 - TYPICAL



BEARINGS - ABUTMENT - ABUTMENT 1



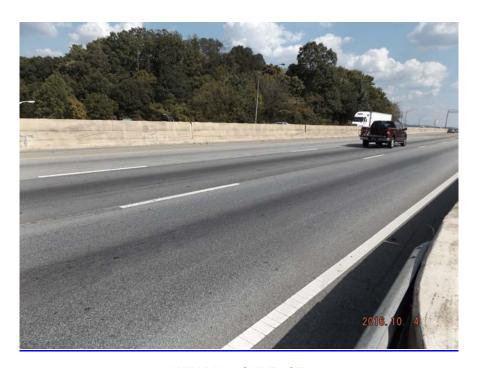
BEARINGS - BENT 1



BEARINGS - BENT 2



APPROACH 1



WEARING SURFACE



TRAFFIC SAFETY FEATURES - GUARD RAIL



BENT 1 - NEW - REINFORCEMENTS - TYPICAL



BENT 1 - SPALL - REBAR

BRIDGE INSPECTION REPORT

Form BIR 3.0	Field Report No.	23	Date	10/4/2016		
(Rev. 9-22-98)	Previous Report No.	22	Date '	10/21/2014		
DT-0069	Plans:	DESIGN	N			
Bridge No. 33100240055	Bridge Location No.	33 - I	0024 -	1208		
Eleven Digit No.		Co. R	Route	Log Mile		
I 24 EBL & WBL over						
Road Name	G		-	^f Named)		
Year Constructed 1964 - ACTUAL	County Hamilton N	Maintena	ance Dist	rict: <u>29</u>		
Year Widened 1983 - ACTUAL	Year Rehabilitated 1983 - A	CTUAL	_			
FEATURES		1	TEAM	<u>LEADER</u>		
Wearing Surface ASPHALT D	Depth 3.0 in			atkins		
☐ Flared Width Median	Width OPEN ft		INICDI	CTORC		
☐ Navigation Control Bridge 9	Skew 9° - RT			<u>ECTORS</u> Haas		
Structure Type (Main) CDG				helton		
Structure Type (Appr.) NA			J. Ed	wards		
No. Main Spans 4 No. Approach Sp	pans 0	—				
	<u> </u>					
Maximum Span Length 46.0 ft						
Total Length 166.0 ft		į				
<u>WIDTHS</u> (*.* ft.)	<u>CLEARANCES</u>					
Deck Out-to-Out 100.2 ft	Min. Vertical Clearance over Deck	(
Roadway Curb/Curb NA ft	Min. Vertical Under Clearance	· _				
Roadway Rail/Rail 2@45 ft	Min. Lateral Under Clearance Rt.	-	39 ft			
Sidewalk Rt. NONE ft Lt. NONE ft	Min. Lateral Under Clearance Lt.	-	3710			
*Approach Roadway	Will. Lateral Officer Clearance Lt.	_				
*(Does Not Include Shoulders)	\square Fracture Critical Bridge					
Approach Shoulder Rt.	(If Yes, Include BIR 3.9)					
Lt.	\square NBIS Bridge (Length > 20ft)					
I						
UNDERWATER INSPECTION To Be Performed By: Date						
Change in Structural Condition						
		БКІРСІ	E 15. <u> </u>	OPEN		
COORDINATES EQUIPMENT +						
Latitude: N°'	_			ol - TDOT		
Longitude: W°' Ladder	☐ Bucket Truck ☐ Little Boat	☐ Traf	fic Contro	ol - Bridge		
Date Collected:	Other::					
General Inspection Comments:						

BRIDGE RATING:

GOOD

Supervising Bridge Inspector:

F. Watkins

Problems with Signs:

		E	Bridge	e Locatio	n No.		- 1002	24 -	Date	10/4/2016
						Co Rou	te - Log N	Mile - Left/Right		
PERFOR	MANCE	EVALUA ⁻	TION	<u> </u>						
Time o	f Day Ins	spected	РМ		W	eather Cor	ditions	° - CLEAR 72F		
Vehicle	es Obser	ved AL	L TYP	ES						
LIVE L	OAD BEH									
	tructure		Yes/	No				Comments		
Horiz./ Vert. Defl.		NC					comments			
Vibration		NC								
Superstructure Horiz./ Vert. Defl.		NC)							
	ibration/		NC							
APPROA		_		IMS Item7	72					
		Ratin	g					Comments		
Align	ment	GOO	D							
Slab		NV		OVERLAY	ΈD					
Joints	S	NV		OVERLAY	ΈD					
Pave	ment	POO	R	ASPHALT	BREAK	ING UP, RO	UGH			
Slope	e	GOO	D							
Drair	าร	GOO	D							
TRAFFI	C SAFET	Y FEATUR	RES							
TRIMS Item 36				Rating		andard/ Standard		Comments		
A -	Bridgera	iling		GOOD	STA	ANDARD				
В-	Transitio	ns		GOOD	NON	STANDARD	METAL E	BLOCKS		
C - ,	Approac	h Rail		GOOD	NON	STANDARD	METAL E	BLOCKS		
D -	Guardra	il Termin		GOOD	NON	STANDARD				
I	Median			GOOD						
SIGNS I	POSTED	ON ROU	<u>T</u>					\square Weight Lim	it Postec	I
Paddleboards			N	0			Gross	<u> </u>	Tons	
Vertical Clearance (<14		1'-6")	YE	S	Height Po	sted	2 Axle	······	Tons	
Narrow Bridge Signs			N	0			3 or more A	Axles.	Tons	
One Lane Bridge Signs		;	N	0						
Othe	er Signs c	r Plaques	5:							
	IED SIGN									
Sign Nur Location Direction		•				2.		3.		

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

Bridge Location No.

33 - 10024 - 1208

Date

10/4/2016

D1-0001		
<u>DECK</u>	Rating	Comments
Wearing Surface	GOOD	ROUGH, UNEVEN, ESPECIALLY WBL. MULTIPLE PATCHES
Deck - TRIMS Item 58	5	
Deck - Structural	FAIR	HL CRACKS W/ EFF, PATCHES, DELAMS, SPALLS, HL MAP-CRACKING
Condition		
Curbs	NONE	
Median	GOOD	
Sidewalks	NONE	
Paint	NA	
Drains	G-P	WBL ARE OPEN. EBL ARE COVERED.
Lighting Standards	GOOD	
Utilities	NONE	
Joint Leakage	FAIR	LEAKAGE ONTO BENT CAPS.
Expansion Joints	NV	OVERLAYED
SUPERSTRUCTURE		
Super: TRIMS Item 59	6	
Bearing Devices	GOOD	
Girders or Beams	G-F	HL-SM CRACKS, DELAMS, SPALLS, PATCHES, LARGE CRACK @ ENDS.
Floor Beams	NA	
Stringers	NA	
Diaphragms	GOOD	
Bracing	NA	
Paint	NA	
Alignment of Members	GOOD	
Trusses - General	NA	
Portals	NA	
Bracing	NA	
TEXTURE COAT		
Condition Rating	FAIR	Needs Spot Painting NO
Overall Appearance	FAIR	Needs Repainting YES
Staining Rating	GOOD	Comments
Fading Rating	GOOD	
Scaling Rating	GOOD	<u></u>

Form BIR 3.3

33100240055

(Rev. 9-22-98) DT-0082

Bridge Location No.

33 - 10024 - 1208

Date 10/4/2016

SUBSTRUCTURE		
Substructure - TRIMS Item 60	6	
<u>ABUTMENTS</u>	Rating	Comments
Caps	GOOD	
Stem:	GOOD	TEXTURE COATED.
Wings	GOOD	TEXTURE COATED
Backwall	GOOD	
Plumb	GOOD	
Footing	NV	
Piles	NV	
Embankment	GOOD	
Bridge Seat:	GOOD	
Rip Rap	NA	
BENTS	I	
Bridge Seat:	POOR	SPAN 1 - BENT 1 - SIGNIFICANT LOSS OF ORIGINAL BEARING AREA
Caps	POOR	SPAN 1 - BENT 1 - SIGNIFICANT REBAR SPALLS
Columns / Shaft	FAIR	SPALLS, DELAMS
Pier / Crash Walls:		
Plumb	GOOD	
Footings	NV	
Piles	NV	

Piles Need Replacement:

NO

Piles To Be Replaced:

Inspection Team's S	ummary	Inspection Date: 10/4/2016
Structure ID	,	County: Hamilton
Federal ID:	22100240055	Closeout Agency: State/Federal
	33100240055	Bridge Is: OPEN
Location:	33 - 10024 - 1208	_
Road Carried:	I 24 EBL & WBL	\square Structure is Fracture Critical
Direction of Route Carried:		Underwater Inspection
Traffic Direction on Bridge:		Underwater Inspection Required
<u>Featured Intersection</u>		Inspection Date
Waterway:		Inspector:
Underpass A: 03577		Report Comments:
Underpass B: 03577		
Overpass: 10024		7
Ratings and Comments		
Overall Bridge Rating:	GOOD	
	Span 1 - Bent 1 - Cap - Steel re	inforcement installed on beams
Approach Roadway Alignment:		
TRIMS Item 72		
Traffic Safety Features		
Bridge Rail: Item36 A	Approach Rail: Item 36 C]
Transitions: Item 36 B	Terminals: Item 36 D	1
Dody TDIMC Hom CO	5	
Deck: TRIMS Item 58	5	
Superstructure: TRIMS Item 59	6	
Substructure: TRIMS Item 60	6	
Culvert: TRIMS Item 62		
Waterway Channel: TRIMS Item	N	
61		
Waterway Adequacy: TRIMS		
Item 71		
Overall Channel Bating		
Overall Channel Rating:		
General Inspection Comments:		

ELEV	ΆΤΙ	ONS	OF	DECK
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PAGE NO.____

BRIDGE LOCATION NO. 33 124 12.08L -(19.44) DATE: 100 MILE 100 MI

STATION/	TOP OF LT.	GUTTER/	CENTERLINE	GUTTER/	TOP OF RT.
LOCATION	CURB/RAIL	EDGE DECK		EDGE DECK	CURB/RAIL
ABUT # 1					
ADOI W I					
BENT # 1					
BENT # 2					
2211 2					
BENT # 3					
ABUT # 2					
- · · ·					
				+	
	1				

BENCH MARK LOCATION	
BENCH MARK ELEVATION	

Top of Deck Span No	IO. 1	l
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Date 10/04/2016

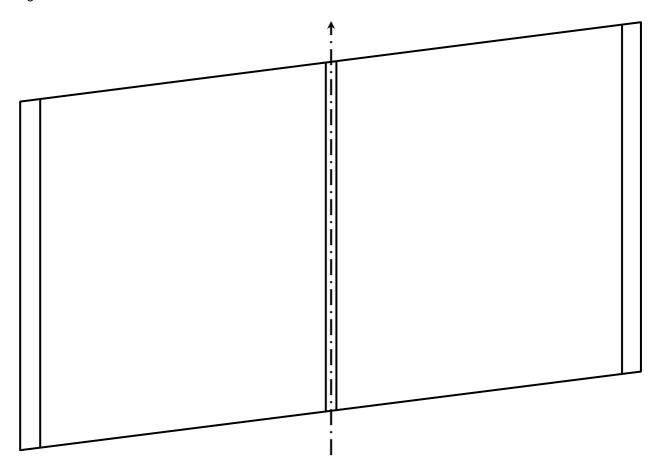
Bridge Location No. 33 10024 12.08 over 33 03577 0.90 County Route Log Mile County Route Log Mile

App Pvmt: G

App Rail: G

Wearing surface: F

Bridge Rail: G



EBL

WBL

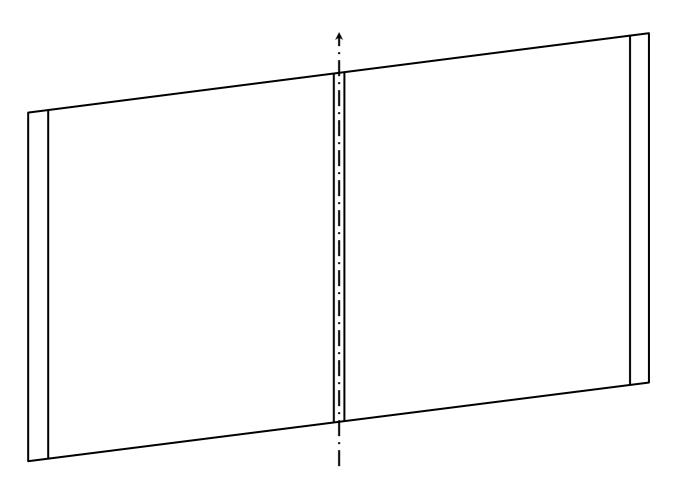
Top of Deck Span No. 2

Date 10/04/2016

Bridge Location No. 33 10024 12.08 over 33 03577 0.90 County Route Log Mile County Route Log Mile

Wearing Surface: F

Bridge Rail: G



EBL

WBL

Top of Deck Span No. 3

Date 10/04/2016

Bridge Location No.

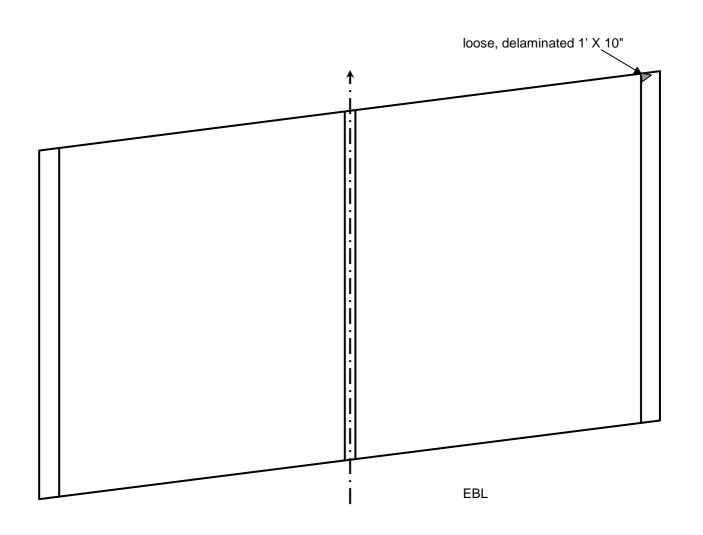
33 County I0024 Route 12.08 Log Mile

over 33 County 03577 Route

Log Mile

Wearing Surface: P

Bridge Rail: G



Top of D	eck Span	No. 4
----------	----------	-------

Date 10/04/2016

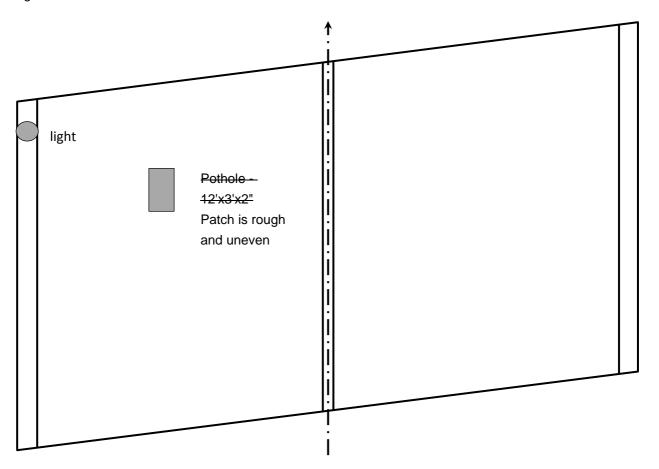
Bridge Location No. 33 10024 12.08 over 33 03577 0.90 County Route Log Mile County Route Log Mile

App Pvmt: G

App Rail: G

Wearing surface: P

Bridge Rail: G



EBL

WBL

Date 10/04/2016

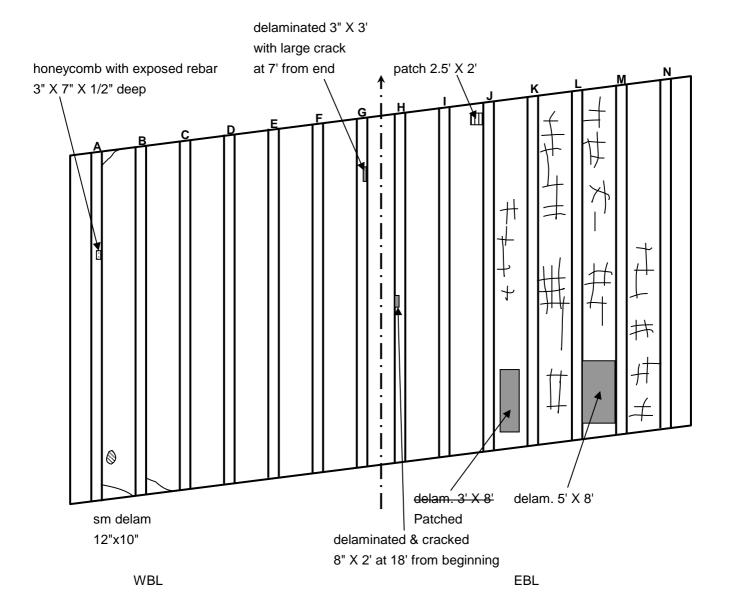
Bridge Location No. 33 10024 12.08 over 33 03577 0.90 County Route Log Mile County Route Log Mile

Beams: GF beams A-G have steel reinforcement rapairs at bent 1

Deck: G

cracks are hairline, some with efflorescence

surface cracks on sides of beams in e.b.l.

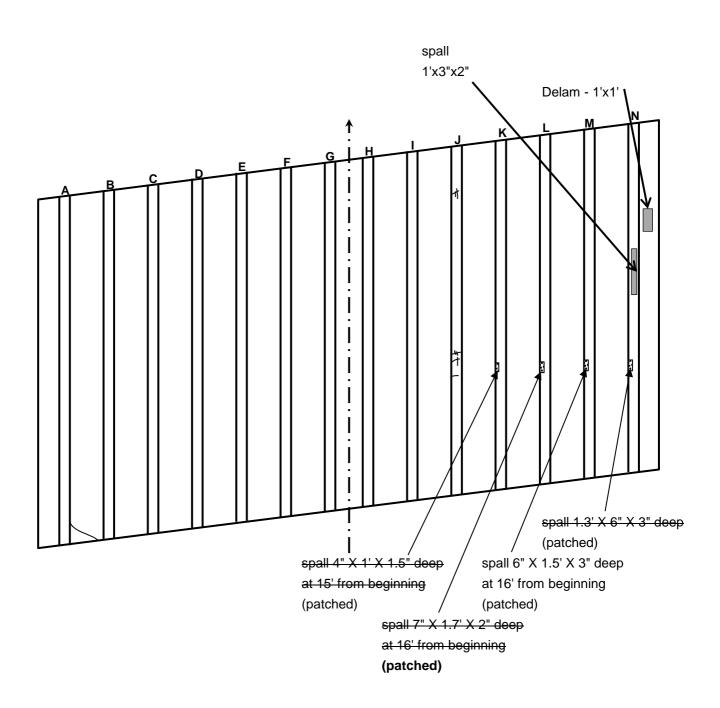


Date 10/04/2016

Bridge Location No. 33 10024 12.08 over 33 03577 0.90 County Route Log Mile County Route Log Mile

Beams: GF

Deck: F

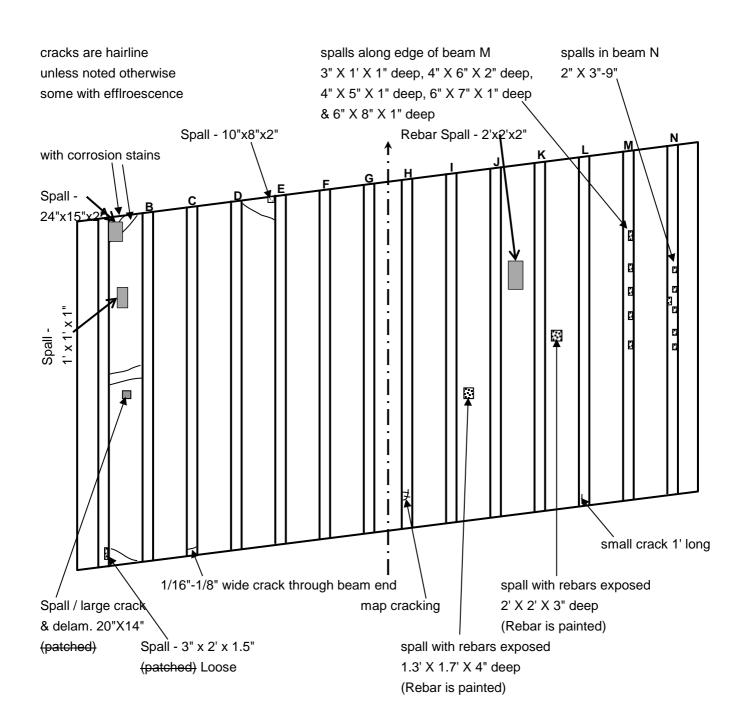


Date 10/04/2016

Bridge Location No. 33 10024 12.08 over 33 03577 0.90
County Route Log Mile County Route Log Mile

Beams: F

Deck: F

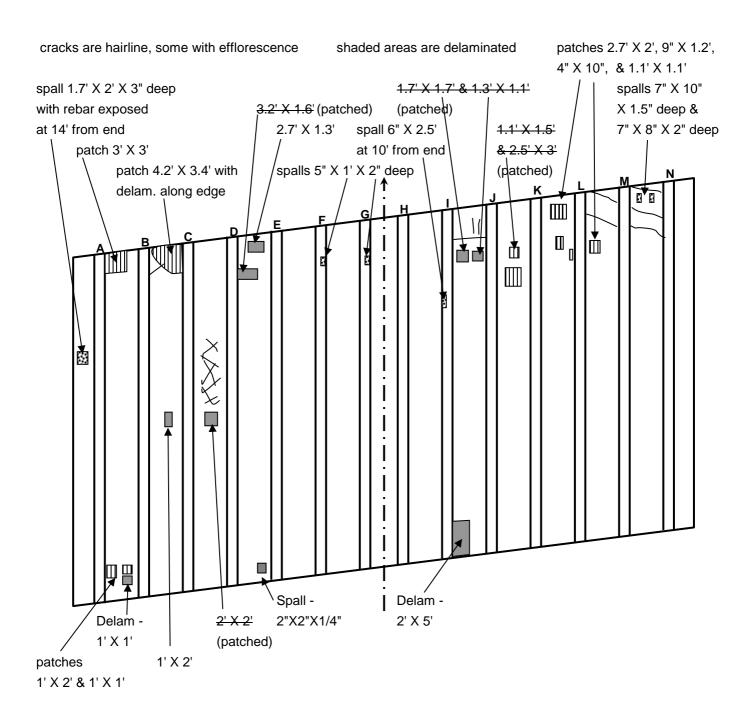


Date 10/04/2016

Bridge Location No. 33 10024 12.08 over 33 03577 0.90
County Route Log Mile County Route Log Mile

Beams: GF

Deck: F



Abutment No. 1

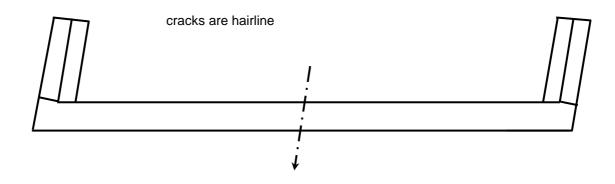
Date 10/04/2016

Bridge Location No. 33 10024 12.08 over 33 03577 0.90 County Route Log Mile County Route Log Mile

Wings: G

Walls: G

Bearings: G



	/ \		/ / /	
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	1		1	1 1

Bent No. 1

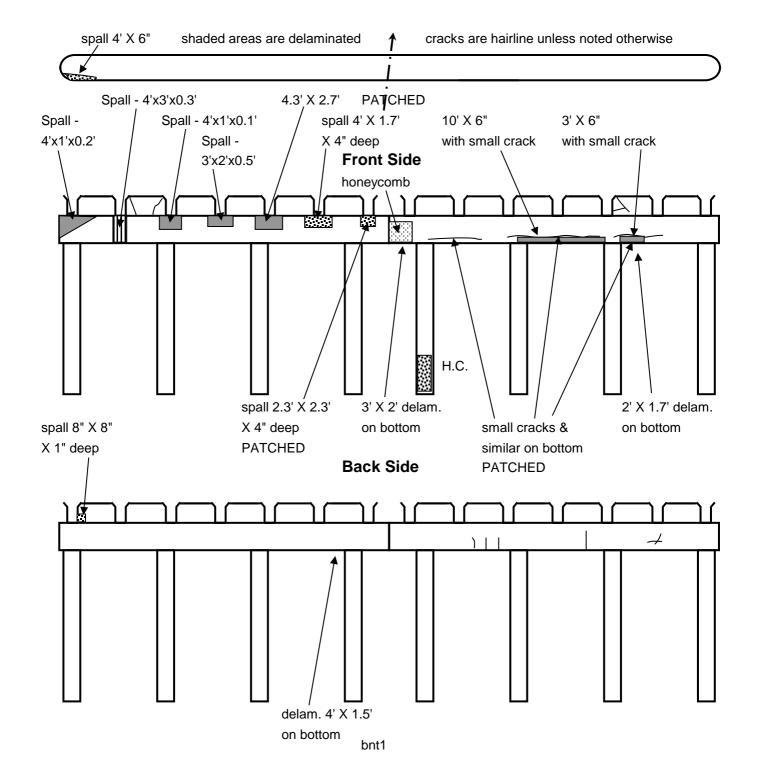
Date 10/04/2016

Bridge Location No. 33 10024 12.08 **over** 33 03572 1.18 County Route Log Mile County Route Log Mile

Columns: F

Cap: P Span 1 face - Rebar spalls

Bearings: P Cap rebar spalls have significantly reduced original bearing area



Bent No. 2

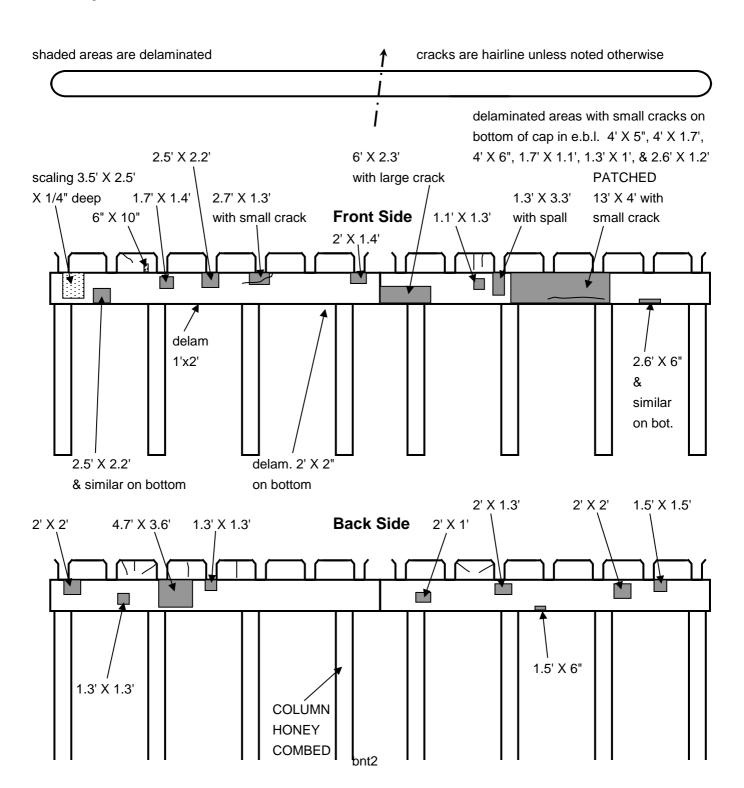
Date 10/04/2016

Bridge Location No. 33 10024 12.08 over 33 03572 1.18 County Route Log Mile County Route Log Mile

Columns: G

Cap: G

Bearings: G



Bent No. 3

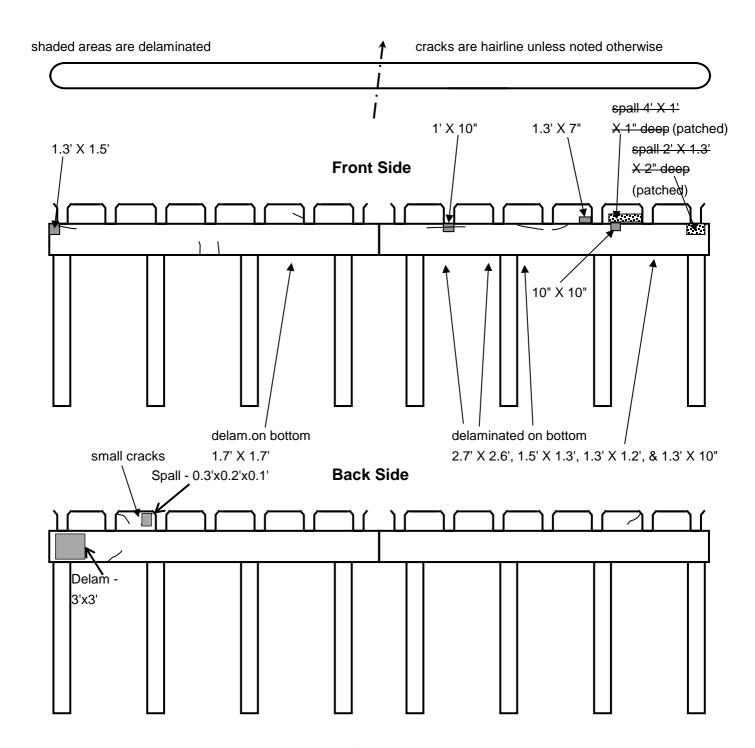
Date 10/04/2016

Bridge Location No. 33 10024 12.08 over 33 03572 1.18 County Route Log Mile County Route Log Mile

Columns: G

Cap: G

Bearings: G



Abutment No. 2

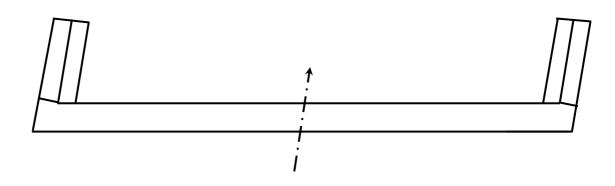
Date 10/04/2016

Bridge Location No. 33 10024 12.08 over 33 03577 0.90 County Route Log Mile County Route Log Mile

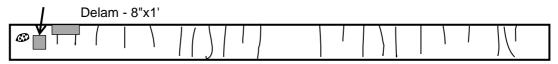
Wings: G

Walls: G

Bearings: G



Delam - 0.7'x0.6'



Horizontal and Vertical Clearances

Date 10/04/2016

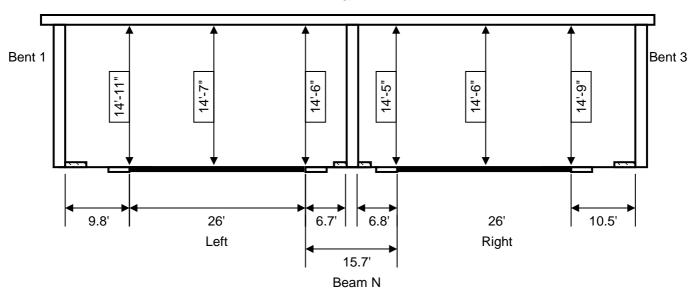
Bridge Location No.

33 County Route

12.08 Log Mile

over 33 County 03577 Route $\frac{0.90}{\text{Log Mile}}$

I 24 WBL & EBL



BRIDGE MAINTENANCE RECOMMENDATIONS

COUNTY: HAMILTON
CITY: CHATTANOOGA

LOCATION: 33-03577-00.90-

CO. SEQ.: 1 SPEC. CASE: 0



CROSSING: 124

FED BRIDGE NO.: 33100240055 REVISED: 10/06/2016

FACILITY CARRIED:			124	NUMBER OF MAIN SPANS:	
HIGHWAY SYSTEM:	18-STP URBAN,	NON-STAT	E SYS.	NUMBER OF APPROACH SPANS:	
BRIDGE WIDTH (CURB 7	CO CURB):	N/A FT	IN	BRIDGE LENGTH (FT):	166
BRIDGE WIDTH (OUT TO	OUT):	N/A FT	IN	MAXIMUM SPAN LENGTH (FT):	46
APPROACH ROADWAY (W/	SHOULDERS):	71 FT	10 IN	SKEW ANGLE (DEGREES):	N/A
		· · · · · · · · · · · · · · · · · · ·			
MAINTAINED BY:					
MAIN SPAN MATERIAL:				CONCRETE	
MAIN SPAN DESIGN TYP	E:			TEE BEAM	
APPROACH SPAN MATERI	AL:				
APPROACH SPAN DESIGN	1 TYPE:				
INSPECTION DATE:	10/04/2016	-)	G	ENERAL CONDITION:	FAIR
PPRM PIN NUMBER:		=	S	TRUCTURALLY DEFICIENT:	
H TRUCK RATING @ INV	7.: TONS	3	S	UFFICIENCY RATING:	

SUGGESTED ROUTINE MAINTENANCE AND COMMENTS

INSTALL CLEARANCE POSTING SIGN AT RIGHT SIDE OF THE BRIDGE TO WARN EXITING I-24

GENERAL COMMENTS:

ADVANCE CLEARANCE POSTINGS ARE UP ON GERMANTOWN ROAD. CLEARANCES NEED TO BE POSTED AT THE STRUCTURE TO WARN TRAFFIC EXITING OFF OF I-24.



Underpass Condition Coding Form

Revised 10/06/2016

County: 33

Route: 03577

Bridge Number: 33I002400552 Special Case: 0

(Includes Item 5A) County Sequence: 1

Feature Intersected: 124 Log Mile: 0.90

Featu	re Intersected:		I24	4					Log Mile:	0.90
CODE	ONLY THO	SE VALUES WHI	ICH I	HAVE (CHAN	IGED)			
ГЕМ#	DESCRIPTIO)N			VALU	E		UN	NDERPASS SAFETY FEA	TURES
90	LAST INSPECT EARLIEST DAY NEXT REGULAR INS	TE OF			0/04/20 8/05/20 /]	515	(A) TYPE UNDERPASS B NONE NEEDED OF APPLICABLE	RNOT
10	MINIMUM V.C DECK (ROADWAY + S			14	FT		IN. IN.		Revised Barrier Ty	pe
520	MINIMUM V.C	. OVER DECK		14	FT.	5	IN.		(B) ADEQUACY OF BARRIER OR RAIL	N
	(EXCLUDES SI	HOULDERS)			FT		IN.		(C) ADEQUACY OF	N
47	TOTAL HORIZONTAL UNDERCLEAR			28	FT		IN. IN.		TRANSITIONS	
54	MINIMUM VE	RTICAL UNDERCLEA HOULDERS)	ARANC	Œ					(D) ADEQUACY OF TERMINALS	N
55	MINIMUM LA	Circle One: H	R		FT		IN.	554	VERTICAL CLEARANCE LISTED ON HEIGHT POSTING	
	UNDERCLEAR SIDE	RANCE ON RIGHT Circle One: H	R		FT		IN.		14 FT. FT	3 IN. IN.
56	MINIMUM LA' UNDERCLEAR SIDE	TERAL RANCE ON LEFT			FT		IN.	16		ONGITUDE 35° 15.1300′
521	OVERALL CO	NDITION		FAIR					HEIGHT POSTED AT BOTH APPROACHES?	YES [] NO [] N/A []
555	COMMENTS									
				TEAM	[LEAD	ER SIG	SNAT	ΓURE	E REVII	/ EW DATE

Page 1 of 2	<u>Underpa</u>	ss Inspec	<u>tion Repor</u>	<u>'t</u>		
Form BIR 3.0	A			Fie	ld Report No. 23	Date10/4/2016
(Rev. 9-22-98)			Previou	us Report No. 22	Date 10/21/2014
DT-1443						
Bridge No.	33100240055					
	Eleven Digit No.				33 - 0357	77 - 0000
		or	33 - 10024 -		over 	lerpass Location No.
Railro County	oad/Walkway		Bridge Loca	ition	3.1.2	C. pass 200a
Year Constru	cted 1964 - AC	TUAL				
Year Widened	d 1983 - AC	TUAL	Year R	ehabilitated	1983 - ACTUAL	
GEOMETRIC	FEATURES UNDER	BRIDGE	(*.*	ft. unless other	rwise noted)	-
Divided High	way	Left - SBL		Type of	Wearing Surface	ASPHALT
Width of App	roach Traveled Roa	adway	26.0	ft. (Does N	lot Include Shoulde	rs)
Width of Med	dian if Divided High	way	15.7	ft.		
Approach Sh	oulder Width		0	 ft. Right	0	ft. Left
*Horizontal 0	Clearance Under Br	idge	28	 ft.		-
*Distance Be	tween Pier Protecti	on Guardrail				
and Substruc	ture	_	NA	ft. Right	NA	ft. Left
*Width of Sid	lewalk Under Bridg	e	7.0	ft. Right	NA	ft. Left
*Minimum V	ertical Clearance:		14 ft 6 ir	Locatio	n:	
TRAFFIC SAF	ETY FEATURES					
Barrier Type	: TRIMS Item 515A					
		Adequacy	Rating	Standard / Nonstandard	Ц	<u>TEAM LEADER</u>
	Pier Protection	Item 515B -	N/A			F. Watkins
	Transitions	Item 515C -	N/A			
	Approach Rail		N/A			INSPECTORS
	Terminal	Item 515D -	N/A			G. Haas
<u>SIGNING</u>		Yes/ I	No/ Needed			M. Shelton
Paddleboa	ards		NO			J. Edwards
Vertical Cl	earance (<14'-6")		YES			
Narrow Pa	assage		NO			
One Lane	Passage		NO			
Other Signs o	or Plaques:			_		
Other Under	pass Signs Needed					

Problems with Signs:

Page 2 of 2						Page I	No
Form BIR 3.0A (Continued)						Date 10/	4/2016
(Rev. 9-22-98)						<u> </u>	090
DT-1443						Underpass Locat	
BRIDGE FEATURES (*.*ft.)							
Bridge Skew 79° - RT			Nu	ımber of La	nes/Tı	racks on Bridge	6
Structure Type (Main Span)	CDG					No. Main Spans	4
Structure Type (Appr.Spans)	NA					No. Appr. Span	5 0
Maximum Span Length	46.0	(ft.)	Total Length	166.	.0	(ft.)	
Width of Bridge Out-to-Out	100.2	(ft.)	Right Angle to	Centerline	of Brid	dge)	
Width of Bridge Along Skew	NA	(ft.)	(If Unable to M		Right A	Angle to	
BRIDGE CONDITION: GOOL)		Centerline of E	Bridge)			
UNDERPASS RATING:	TI	RIMS Iter	n 521				
✓ Potential for bridge elements fal	ling on to roa	dway be	low				
Potential is due to failure of major	_	,					
Underpass Inspection Comments							

Advanced clearance postings are prestent both Northbound and Southbound on Germantown, however traffic exiting from 1-24 has no advanced warning of the underpass clearance. Clearance postings should be posted at the structure or on North and South Terrace to warn traffic exiting from I-24 of the clearance.

Although all loose concrete was removed by bridge inspection crews, potential exists for future loosed concrete to fall at <u>Spane 1 - Bent 1.</u>

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	<u>Underpa</u>	ss I	<u>nspect</u>	<u>ion Repor</u>	<u>'t</u>						
Form BIR 3.0A	Ą					Field	Report	No. 23		Date	10/4/2016
(Rev. 9-22-98)	1					Previous	Report	No. 22		Date	10/21/2014
DT-1443											
Bridge No.	33100240055										
	Eleven Digit No.							33 - 035	577 - (0090	
	1007 11	0	r	33 - 10024 -			over				ation No.
	oad/Walkway			Bridge Loca	tion				'		
County		TI I A I									
Year Construc						Process.	4000	A CT. I.A			
Year Widened	1983 - AC	.TUAI	<u>-</u> _	Year R	enabi	litated	1983	- ACTUA	<u>L</u>		
GEOMETRIC I	FEATURES UNDER	BRII	<u>DGE</u>	(*.*	ft. un	less otherwi	ise note	d)			
Divided Highw	vay <u> </u>	Right	- NBL			Type of W	earing !	Surface		A	SPHALT
Width of App	roach Traveled Roa	adwa	y <u> </u>	26.0	ft.	(Does Not	Include	e Should	ers)		
Width of Med	ian if Divided High	way			ft.						
Approach Sho	oulder Width		_	0	ft.	Right		0	ft.	Left	
*Horizontal C	learance Under Br	idge		28.0	ft.						
*Distance Bet	ween Pier Protect	ion G	uardrail								
and Substruct	ture			NA	ft.	Right		NA	ft.	Left	
*Width of Sid	ewalk Under Bridg	e		7.0	ft.	Right		NA	ft.	Left	
*Minimum Ve	ertical Clearance:		_	14 ft 5 in	1	Location:					
TRAFFIC SAFI	ETY FEATURES										
Barrier Type:	TRIMS Item 515A										
		A	dequacy	Rating		ndard / standard			ı		
	Pier Protection	Ite	m 515B -	NA		IONEX					<u>LEADER</u>
	Transitions	Ite	m 515C -	NA	N	ONEX				F. W	atkins
	Approach Rail			NA	N	ONEX				<u>INSPI</u>	<u>ECTORS</u>
	Terminal	ltei	m 515D -	NA	N	ONEX				G.	Haas
SIGNING			Yes/ N	lo/ Needed	•						helton
Paddleboa	rds			NO						J. Ed	wards
Vertical Cle	earance (<14'-6")			YES							
Narrow Pa	ssage			NO	1						
One Lane I				NO							
Other Signs o	_	ļ			J						
0 - 0	•										
	a										
Other Underr	ass Signs Needed										

Other Underpass Signs Needed vertical clearance needed right side and ramp

Problems with Signs:

Page 2 of 2						Pa	age No	
Form BIR 3.0A (Continu	ed)					Date	10/4/2	016
(Rev. 9-22-98)						33 - 0357	7 - 0090)
DT-1443						Underpass L	ocation	No.
BRIDGE FEATURES	(*.* ft.)							
Bridge Skew	79° - RT			Numbe	er of Lanes/	Tracks on Bridg	e,	6
Structure Type (Main Sp	oan)	CDG				No. Main S	pans	4
Structure Type (Appr.Sp	oans)	NA				No. Appr. S	pans _	0
Maximum Span Length		46.0	(ft.)	Total Length	166.0	(ft.)		
Width of Bridge Out-to-	-Out	100.2	(ft.)	Right Angle to Cen	terline of Bı	ridge)		
Width of Bridge Along S	Skew _	NA	(ft.)	(If Unable to Meas Centerline of Bridg	•	Angle to		
BRIDGE CONDITION:	GOO	<u> </u>						
UNDERPASS RATING:		Tr	RIMS Item	. F21				
☐ Potential for bridge of		J	adway be	IOW				
☐ Potential is due to fa	illure of maj	or members						
Underpass Inspection (Comments							
Advanced clearance pos								
warning of the underpas	<u>ss clearance.</u>	Clearance po	<u>stings sho</u>	<u>ould be posted at the</u>	structure or	<u>on North and S</u>	<u>outh Ter</u>	<u>rrace</u>

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

to warn traffic exiting from I-24 of the clearance.

- 3. View Showing Safety Features
- 4. View Showing Any Problems

Structure Inventory and Appraisal Sheet (English Units)

ELEMEN	NT COND	ITION STATE DATA										
Str Unit	Elm/Env	Description	Units	Total Qty	% in 1	Qty. St. 1	% in 2	Qty. St. 2	% in 3	Qty. St. 3	% in 4	Qty. St. 4
0	12/1	Re Concrete Deck	sq.ft	16,600	98%	16,300	1%	200	1%	100	0%	0
0	110/1	Re Conc Opn Girder/Beam	ft	2,324	97%	2,250	3%	70	0%	4	0%	0
0	205/1	Re Conc Column	each	24	96%	23	0%	0	4%	1	0%	0
0	215/1	Re Conc Abutment	ft	253	100%	253	0%	0	0%	0	0%	0
0	234/1	Re Conc Pier Cap	ft	300	77%	230	7%	20	0%	0	17%	50
0	301/1	Pourable Joint Seal	ft	308	100%	308	0%	0	0%	0	0%	0
0	311/1	Moveable Bearing	each	28	100%	28	0%	0	0%	0	0%	0
0	313/1	Fixed Bearing	each	56	100%	56	0%	0	0%	0	0%	0
0	316/1	Other Bearing	each	28	50%	14	0%	0	25%	7	25%	7
0	331/1	Re Conc Bridge Railing	ft	498	100%	498	0%	0	0%	0	0%	0