								Bridge	Insn	ection								
Bridge File Num	ber	8502	21 W3	3-6 Bridg	е			Direge		rm Typ	e			PSR				
Year Built/Year			6/2006		-					t No.				3				
Supstr									In:	spector	Na	me		Kris Bosters				
Bridge or Town	Name	TVA	HON.	Y HEND TOR TR	AY WES	STBOL	UND	OVER		spector				BR CLS A				
Located Over				23-2 B	\ <u>L</u>	As	sistant	stant Name										
Located On		_		1 0.379					As	Assistant Class								
Water Body Cl./	Voor	210.	.00 1	1 0.579					In	Inspection Date			20-Feb-2013					
Navigabil. Cl./Ye									Da	ata Entr	у В	у		Theresa Lacusta				
Legal Land Loca		NF 9	SEC 2	29 TWP :	51 RGE	24 W	4M		Da	ata Entr	y D	ate		12-Mar-2013				
Longitude, Latitu				6, 53:26:		Z-7 VV	TIVI		Re	Reviewer Name			Eric Carcoux					
Road Authority	<u> </u>			ansporta		T)			Re	Review Date			10-Mar-2013					
Contract Main. A	\rea			Y HENDAY DRIVE					De	Dept. Reviewer Name								
Clear Roadway/		12.9				De	ept. Rev	iew	/ Date	Э	13-Mar-2013	3						
AADT/Year 51,020 / 2			2011 (A)	011 (Δ)					Follow-Up By									
Road Classification RFD-412.4-																		
Detour Length (1	, ,,_,															
Allowable Load	ĺ		CS1	28		Sem	mi CS2 49				Tı	rain	cs	33 62		> On Critical Spans >Critical Member		าร
Design Loading:			CL80	00												> Primary	Span	
							F	osting	Info	mation							·	
Required Vert. C	Clearar	nce P	osting	g (m)														
Posted Vertical	Cleara	nce (Y/N)		No													
Posted: Lane	WB	C	On Bri	dge (m)		In Adv	/ance	(Y/N)	Yes	Lane	e I	EB	0	n Bridge (m)		In Advance	e (Y/N)	
Remarks	5.4 si	gn on	struc	ture #1.														
Required Load F	Posting	(t)			Single					Semi			Truck Train					
Posted Loading	(t)				Single					Semi		Truck Train						
Posted:	Lane	٧	ΝB		At June	tion (Y/N)	N) No		In Advance (Y/N)		No At Bridge (Y/N)		No				
Posted:	Lane	E	ЕВ		At Junction (Y/N)	(/N)		In Advance (Y/N)			At B	Bridge (Y/N)				
Remarks	Not re	quire	ed.															
Hazard Marker A	At Brid	ge (Y	/N)	Yes														
Remarks				Installed	d on end	of cra	ash b	arrier.										
Other Sign Type	:S																	
							U	Itilities	(Loc	ated at								
Utility Attachmer	nts																	
Telephone									G	as								
Power	Street	t light	ing.						М	Municipal								
Others									Pr	Problem (Y/N) No								
Remarks																		
								Approach Road										
							Las			planati	on	of Co	ondi	tion				
Horizontal Aligni							9	9										
Vertical Alignme							8	8										
Roadway Width	` '			12.900						Wide crack in ACP at approachesphoto								
Approach Bump				V/			7	5										
Guardrail (Y/N)				Yes														
Guardrail				60.000			8	8										
Length (m)	L / / / /	(N.1)		69.000														
Current Stand	`	IN)		Yes Crach to	n man : 1													
Termination Ty	уре			Crash te	erminal		A	1	-	l actilii	~ ~		0 -	odina babis 1	he s!	عاميا		
Drainage							4	4	Fi Fi	l settled	ي ه Lat	, 5₩ <u>N</u> W 8	er and d	oding behind drainage is flo	wack wing	waiipnoto under approa	ich slab	photo
Approach Road	d Gene	eral R	Rating				8	8										

Stridge Component Last Now Explanation of Condition							Supers	structure					
Special Feature (Type :) Special Feature (Bridge Com	ponent											
Special Feature X X		-	ans, L	engths((m): 39, A-Ide	nt Num	nber:)						
(Type :) Special Feature (Material Type : ACP) (Thickness(mm) : 90 Letek Top No Y/N) Deck Rideability Speck Top No Speck	Special Feat	tures											
Special Feature	Special Feat	ure					Х						
Wearing Surface/Deck Top Detail Ratings	(Type:)												
Wearing Surface/Deck Top Detail Ratings		ure					X						
Nearing Surface/Deck Top Detail Ratings N (%) 1 (%) 2 (%) 3 (%) Snow along gutters.													
Ast set sow 5.0 1 (%) 2 (%) 3 (%) Snow along gutters. Ast sow 5.0 8 4 A Random longitudinal and transverse cracks in ACP - sealed. ACP reveiling & 1m x 0.2m pothole formed at W joint paving lip-photo photo started Connection Problem (YN) Deck Top N N N Deck Rideability 8 4 4 Pothole at W deck joint. Deck Joints 4 4 4 Cover plate bolt head sheared off at North side - photo. Leakage is causing scaling & spalling on deck underside at SWphoto season from curb, control joints and deck joints are causing delaminations-photo delaminations-photo delaminations-photo Deck Drainage V 4 4 A Drains Clogged (YN) No Deck Drainage V 5 Season (Proceedings of the County of the		face/Deck Top	Detail	l Ratings									
Ask Solom		1				3 (%)		Snow along gutters.					
Mearing Surface 8	Last												
(Material Type : ACP) (Thickness(mm): 90) alteral Connection Problem No No No No No No No N	Now	5.0											
(Material Type : ACP) (Thickness(mm): 90) alteral Connection Problem No No No No No No No N	Wearing Sur	face				8	4	Random longitudinal and transverse cracks in ACP - sealed.					
Thickness(mm): 90)								1					
Accepted by the problem No No No No No No No N		• • • • • • • • • • • • • • • • • • • •											
Deck Rideability Deck Rideability B													
Deck Idleability Beck Joints Cover plate bolt head sheared off at North side - photo. Leakage is causing scaling & spalling on deck underside at SWphoto Leakage is causing scaling & spalling on deck underside at SWphoto Gap Size (mm) Gap Location By West abutment Deck Drainage Deck Drainage Drain tubes dont extend below underside-photo Seepage from curb, control joints and deck joints are causing dolarninations-photo Seepage from curb, control joints and deck joints are causing dolarninations-photo Seepage from curb, control joints and deck joints are causing dolarninations-photo Narrow vertical shrinkage cracks, typical. Narrow vertical shrinkage cracks, typical. Sealing (Percent Area) Sidege Rail Posts (Type:) Sidewalk X X Sider Detail Ratings N (count) N (count) 1 (count) 2 (count) 3 (count) BF 85021W & BF 85021E-1 are attached Western 10 girders are being rated as part of BF 52021W. Spalling (Percent Area) O Shrinkage cracks at ends of trellis beams. Narrow horizontal cracks. Grider 1 & G2. Most girders have rust spots originating from formwork.						N	N						
Deck Joints Temperature (deg. C) (Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC)) (Fixed Type :) Gap Size (mm) Gap Location West abutment Deck Drainage Drain Clogged (Y/N) No Curb Shadian (Curb Type : SINGLE SLOPE CONCRETE BARRIER) Scaling (Percent Area) Orange Saridge Rail (Type :) Sirder Detail Ratings N (count) N													
Temperature (deg. C) -5 (Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC)) (Fixed Type :) Gap Size (mm) Substituting the strength of th	Deck Rideab	oility				8	4	Pothole at W deck joint.					
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC)) (Fixed Type :) Gap Size (mm) Gap Location 39 West abutment Deck Drainage 4 4 4 Drain tubes dont extend below undersidephoto Seepage from curb, control joints and deck joints are causing delaminationsphoto Seepage from curb, control joints and deck joints are causing delaminationsphoto Seepage from curb, control joints and deck joints are causing delaminationsphoto Seepage from curb, control joints and deck joints are causing delaminationsphoto Seepage from curb, control joints and deck joints are causing delaminationsphoto Seepage from curb, control joints and deck joints are causing delaminationsphoto Seepage from curb, control joints and deck joints are causing delaminationsphoto Seepage from curb, control joints and deck joints are causing delaminationsphoto Seepage from curb, control joints and deck joints are causing delaminationsphoto Seepage from curb, control joints and deck joints are causing delaminationsphoto Seepage from curb, control joints and deck joints are causing delaminationsphoto Seepage from curb, control joints and deck joints are causing delaminationsphoto Seepage from curb, control joints and deck joints are causing delaminationsphoto Seepage from curb, control joints and deck joints are causing delaminationsphoto Seepage from curb, control joints and deck joints are causing delaminationsphoto Seepage from curb, control joints and deck joints are causing delaminationsphoto Seepage from curb, control joints and deck joints are causing delaminationsphoto Seepage from curb, control joints and deck joints are causing delaminationsphoto Seepage from curb, control joints and deck joints are delaminationsphoto Seepage from curb, control joints and deck joints are delaminationsphoto Seepage from curb, control joints and deck joints are delaminationsphoto Seepage from curb, control joints and deck joints are delaminationsphoto Seepage from curb, control joints are delaminationsphoto Seepa	Deck Joints					4	4	Cover plate bolt head sheared off at North side - photo.					
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC)) (Fixed Type :) Gap Size (mm) Gap Location West abutment Deck Drainage Drains Clogged (Y/N) No Drain tubes dont extend below underside -photo Seepage from curb control joints and deck joints are causing delaminations -photo Narrow vertical shrinkage cracks, typical. (Curb Type : SINGLE SLOPE CONCRETE BARRIER) Scaling (Percent Area) O Sridge Rail O Sridge Rail X X X (Type :) Sridge Rail/Posts Coating (Type :) Siddewalk X X Sirder Detail Ratings N (count) 1 (count) 2 (count) 3 (count) BF 85021W & BF 85021E-1 are attached Western 10 girders are being rated as part of BF 52021W. Spalling (Percent Area) O Shrinkage cracks at ends of trellis beams. Narrow horizontal cracks. Girder 1 & G2. Most girders have rust spots originating from formwork.	Temperatu	re (deg. C)		-5				Leakage is causing scaling & spalling on deck underside at SW -					
Gap Size (mm) West abutment West abutment Deck Drainage Drains Clogged (Y/N) Prains Clogged (Y/N) No Drains Clogged (Y/N) No Drains Clogged (Y/N) No Drains Unbes dont extend below undersidephoto Seepage from curb, control joints and deck joints are causing delaminationsphoto Narrow vertical shrinkage cracks, typical. (Curb Type: SINGLE SLOPE CONCRETE BARRIER) Scaling (Percent Area) O Bridge Rail (Type:) Drains tubes dont extend below undersidephoto Seepage from curb, control joints and deck joints are causing delaminationsphoto Narrow vertical shrinkage cracks, typical. (Type:) Drains Clogged (Y/N) Narrow vertical shrinkage cracks, typical. (Type:) Drains Undersidephoto Seepage from curb, control joints and deck joints are causing delaminationsphoto Narrow vertical shrinkage cracks, typical. Strinkage cracks, typical. BF 85021W & BF 85021E-1 are attached Western 10 girders are being rated as part of BF 52021W. Sprinkage cracks at ends of trellis beams, Narrow horizontal cracks. Girder 1 & G2. Most girders have rust spots originating from formwork.	(Expansion	n Type : GLAN	D (WA	ABO-MA	UER, TRANS	FLEX,	ETC))						
West abutment Deck Drainage Deck Drainage Drain tubes dont extend below undersidephoto Sepage from curb, control joints and deck joints are causing delaminationsphoto Sepage from curb, control joints and deck joints are causing delaminationsphoto Sepage from curb, control joints and deck joints are causing delaminationsphoto Sepage from curb, control joints and deck joints are causing delaminationsphoto Sepage from curb, control joints and deck joints are causing delaminationsphoto Sepage from curb, control joints and deck joints are causing delaminationsphoto Sepage from curb, control joints and deck joints are causing delaminationsphoto Sepage from curb, control joints and deck joints are causing delaminationsphoto Sepage from curb, control joints and deck joints are causing delaminationsphoto Sepage from curb, control joints and deck joints are causing delaminationsphoto Sepage from curb, control joints and deck joints are causing delaminationsphoto Sepage from curb, control joints and deck joints are causing delaminationsphoto Sepage from curb, control joints and deck joints are causing delaminationsphoto Sepage from curb, control joints and deck joints are causing delaminationsphoto Sepage from curb, control joints and deck joints are causing delaminationsphoto Sepage from curb, control joints and deck joints are causing delaminationsphoto Sepage from curb, control joints are causing del	(Fixed Typ	e:)											
Deck Drainage	Gap Size (mm)		Gap L	ocation								
Drains Clogged (Y/N) No Seepage from curb, control joints and deck joints are causing delaminationsphoto Curbs/Median (Curb Type : SINGLE SLOPE CONCRETE BARRIER) Scaling (Percent Area) O Saridy Rail (Type :) Saridge Rail	89			West	abutment								
Curb Type : SINGLE SLOPE CONCRETE BARRIER) Scaling (Percent Area) 0 Sridge Rail				No		4	4	Seepage from curb, control joints and deck joints are causing					
(Curb Type : SINGLE SLOPE CONCRETE BARRIER) Scaling (Percent Area) 0 Bridge Rail				_		7	7						
Scaling (Percent Area) 0 Bridge Rail (Type:) Bridge Rail Posts (Type:) Bridge Rail/Posts Coating (Type:) Bridge Rail/Posts Coating (Type:) Sidewalk X X (Type:) Sidewalk X X Sirder Detail Ratings N (count) 1 (count) 2 (count) 3 (count) BF 85021W & BF 85021E-1 are attached Western 10 girders are being rated as part of BF 52021W. Sidewalk Sirders 4 4 A Shrinkage cracks at ends of trellis beams. Narrow horizontal cracks. Girder 1 & G2. Most girders have rust spots originating from formwork.				CONCE	ETE DADDIE	1	/	ivarrow vertical shrinkage cracks, typical.					
Bridge Rail (Type:) Bridge Rail Posts (Type:) Bridge Rail/Posts Coating (Type:) Bridge Rail/Posts Coating (Type:) Sidewalk X X (Type:) Sidewalk X X BF 85021W & BF 85021E-1 are attached Western 10 girders are being rated as part of BF 52021W. BF 85021W & BF 85021E-1 are attached Western 10 girders are being rated as part of BF 52021W. Sidewalk Sirder Detail Ratings A X X Sirder Detail Ratings BF 85021W & BF 85021E-1 are attached Western 10 girders are being rated as part of BF 52021W. Sidewalk Sirder Detail Ratings A A Shrinkage cracks at ends of trellis beams. Narrow horizontal cracks. Girder 1 & G2. Most girders have rust spots originating from formwork.	-		UPE (LIE BAKKIEI	()							
Cracking (Y/N) Bridge Rail Posts X X X X X X X X X X X X X		ercent Area)		U		V	V						
Bridge Rail Posts X X (Type:) Bridge Rail/Posts Coating X X (Type:) Sidewalk X X Sirder Detail Ratings N (count) 1 (count) 2 (count) 3 (count) BF 85021W & BF 85021E-1 are attached Western 10 girders are being rated as part of BF 52021W. Birders Cracking (Y/N) Yes Spalling (Percent Area) 0						X	X	-					
(Type:) Bridge Rail/Posts Coating X X X (Type:) Sidewalk X X Girder Detail Ratings N (count) 1 (count) 2 (count) 3 (count) BF 85021W & BF 85021E-1 are attached Western 10 girders are being rated as part of BF 52021W. BF 85021W & BF 85021E-1 are attached Western 10 girders are being rated as part of BF 52021W. Sidewalk X X Shrinkage cracks at ends of trellis beams. Narrow horizontal cracks. Girder 1 & G2. Most girders have rust spots originating from formwork.	` • • •	Pooto				V	V						
Bridge Rail/Posts Coating (Type:) Sidewalk X X Girder Detail Ratings N (count) 1 (count) 2 (count) 3 (count) BF 85021W & BF 85021E-1 are attached Western 10 girders are being rated as part of BF 52021W. BF 85021W & BF 85021E-1 are attached Western 10 girders are being rated as part of BF 52021W. Sidewalk Shrinkage cracks at ends of trellis beams. Narrow horizontal cracks. Girder 1 & G2. Most girders have rust spots originating from formwork.		OSIS				X	X	-					
Girder Detail Ratings N (count) 1 (count) 2 (count) 3 (count)		Pooto Costina				V	V						
Sidewalk X X Girder Detail Ratings N (count) 1 (count) 2 (count) 3 (count) BF 85021W & BF 85021E-1 are attached Western 10 girders are being rated as part of BF 52021W. Girders Cracking (Y/N) Yes Spalling (Percent Area) 0 Spalling (Percent Area) 0 Spalling (Percent Area) 0 Spalling (Percent Area) X Karrow horizontal cracks. Girder 1 & G2. Most girders have rust spots originating from formwork.		rosts Coating				X	X	-					
Girder Detail Ratings N (count) 1 (count) 2 (count) 3 (count) BF 85021W & BF 85021E-1 are attached Western 10 girders are being rated as part of BF 52021W. Spalling (Percent Area) Yes Spalling (Percent Area) 0													
N (count) 1 (count) 2 (count) 3 (count) BF 85021W & BF 85021E-1 are attached Western 10 girders are being rated as part of BF 52021W. BF 85021W & BF 85021E-1 are attached Western 10 girders are being rated as part of BF 52021W. Sirders Cracking (Y/N) Yes Spalling (Percent Area) O BF 85021W & BF 85021E-1 are attached Western 10 girders are being rated as part of BF 52021W. Shrinkage cracks at ends of trellis beams. Narrow horizontal cracks. Girder 1 & G2. Most girders have rust spots originating from formwork.	Sidewalk					X	L X						
being rated as part of BF 52021W. Now Girders Cracking (Y/N) Spalling (Percent Area) being rated as part of BF 52021W. Shrinkage cracks at ends of trellis beams. Narrow horizontal cracks. Girder 1 & G2. Most girders have rust spots originating from formwork.	Girder Detail	Ratings											
Now Girders Cracking (Y/N) Spalling (Percent Area) 4 4 Shrinkage cracks at ends of trellis beams. Narrow horizontal cracks. Girder 1 & G2. Most girders have rust spots originating from formwork.		N (count)	1 (co	unt)	2 (count)	3 (cou	unt)						
Girders 4 4 Shrinkage cracks at ends of trellis beams. Cracking (Y/N) Yes Narrow horizontal cracks. Girder 1 & G2. Most girders have rust spots originating from formwork.	Last							being rated as part of BF 52021W.					
Cracking (Y/N) Yes Narrow horizontal cracks. Girder 1 & G2. Most girders have rust spots originating from formwork.	Now												
Cracking (Y/N) Yes Narrow horizontal cracks. Girder 1 & G2. Most girders have rust spots originating from formwork.	Girders					4	4	Shrinkage cracks at ends of trellis beams.					
Spalling (Percent Area) 0		Y/N)		Yes				Narrow horizontal cracks. Girder 1 & G2.					
								iviosi girders have rust spots originating from formwork.					

			Supers	tructure
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : TSS, 1 Spans, L	engths(m): 39, A-Ider	nt Num	ıber:)	
Diaphragms/Cross Frame		Х	X	
Bearings		8	8	Only a couple can be viewed.
Temperature (deg. C)	-4			
(Expansion Type : REINFORC	ED PAD BEARING)			
(Fixed Type : REINFORCED P	AD BEARING)			
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	Staining around drain tubes.
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		4	4	
Caporon actars Conoral Hannig		·	ļ ·	
			Subst	ructure
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		8	8	
Wingwalls		8	8	
Piles		N	N	
Paint/Coating		8	5	
Abutment Stability		8	8	
Scour/Erosion		8	8	
Piers/Bents				
(Type:)				Supports for trellis beams.
Bearing Seats/Caps		8	8	Narrow horizontal and vertical cracking.
(Type:)				
(Total Number of Bearing Piles :)			
Pier Shaft/Piles		N	N	
Bracing/Struts/Sheathing		Х	Х	
Nose Plate		Х	Х	
Paint/Coating		8	5	Cream.
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
, , ,				
Scour		8	8	
Debris (Y/N)	No			
Substructure General Rating		8	8	

		S	tructu	ure Usage					
		Last	Now	Explanation of Condition					
Grade Separation									
Road Alignment			8	On curve.					
Traffic Safety Features		8 8		Guardrail & concrete retaining wall on East side.					
Туре	Lighting								
Slope Protection		8	6	Bark mulch.					
(Type : CONCRETE; CONCRE	TE)			Concrete retaining wall on East side. Narrow vertical cracks.					
Bank Stability			4	Fill settling at SW & NW photo.					
Drainage		8	8						
Grade Separation General Ration	ng	4	4						

			Maintenance F	Recommend	ations					
Inspector Recomi	mendations	Year	Inspector Comments		Department Comm	ents		Target Year	Est. Cost	Cat #
REPAIR/REPLAC	CE BRIDGE RAIL				·					
GALVANIZE/PAIN	NT BRIDGE RAIL									
SEAL CURBS										
PATCH DECK		2013	Seal cracks at approaches, patch paving lip.	pothole at W						
SEAL DECK										
OVERLAY DECK										
REPAIR/REPLAC	CE DECK JOINTS	2013	NW cover plate bolt.							
RESET/ PAINT B	EARINGS									
WASHING										
SHOTCRETE RE	PAIRS									
REPAIR ABUTMI	ENT SCOUR/EROSI	ON								
PLACE ADDITIO	NAL RIP RAP									
	ACCUMULATION									
OTHER ACTION		2013	Place fill @ SW & NW corners.							
OTHER ACTION		2013	Extend drain tubes.							
OTHER ACTION										
OTHER ACTION										
Structural Condi	ition Rating (Last/No	ow) 66.7/66	Sufficiency Rating (Last (%)	t/Now) 5	51.7/50.4	Est. Repl. Yr	2080	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection	Some maintenance substructure.	items are comr	mon to BF E1-1 as they share a comr	mon	Department Comments					
Maintenance Rev	riewed By				Date		ı	Estimated Total	0	
Maintenance Rev Proposed Long-T					Date		ı	Estimated Total	0	
	erm Strategy				Date		1	Estimated Total	0	
Proposed Long-T	erm Strategy				Date		1	Estimated Total	0	
Proposed Long-T On 3-Year Progra	erm Strategy	Arnold Assenh	eimer	Previous A	Date Assistant's Name	Wade Nannir		Estimated Total	0	
Proposed Long-T On 3-Year Progra Proposed Action	erm Strategy am (Y/N) or's Name	Arnold Assenh 20-Nov-2014	eimer			Wade Nannir 25-Apr-2011		Estimated Total	0	
Proposed Long-T On 3-Year Progra Proposed Action Previous Inspecto Next Inspection D	erm Strategy am (Y/N) or's Name		eimer		Assistant's Name			Estimated Total	0	