Strue	cture Description: 1208 Foo	t - 21 Span Steel contir	nuous String	er/Multi	-beam or Girder	NBI)
2 D	District: 05 3 County:	Jefferson 16 Latitue	de: 38°14′46	6.00″	7 Longitude: 85°45′08.00″	Element	2
7 F	acility Carried 1-65				Milepoint: 0.050	Fracture Critical	
6A F	eature Intersected: JACOB,	BROADWAY, GRAY S	Т			Underwater	
9 L	ocation: .7 MI S US 31E					Special	
Stru	cture Description: 1208 Foo	t - 21 Span Steel contin	nuous String	r/Multi	beam or Girder		
	NBI CONDITI	ON RATINGS		_00″	GEOME	TRIC DATA	
58 D	eck: 6	61 Channel:	Ν	48	Max Length Span:	123.583 ft	
59 S	uperstructure: 5	62 Culvert:	Ν	49	Structure Length:	1,207.999 ft	
60 S	ubstructure: 5	Sufficiency Rating:	79.9	32	Approach Roadway:	-3.281 ft	
	DES	NGN		er/M ³³	Median:	(3) Closed w/Barrier	
Cuba	tondardı	No		-00" 34	Skew:	U ¹	
Subs		No EC Dotaila		30	Flare:	1 es	
12 A	Main Span Matarial	(4) Stool Continuous		50/	A Curb/Sidewalk Width L:	0.000 ft	
4JA 420	Main Span Material.	(4) Steel Continuous		501		0.000 Il	
43D 15	Number of Spane Main			er/M	Horiz. Clearance:	44.01910	
45 111	Approach Spans Material:	ZI Not Applicable		00" 50	Width Out to Out:	-3.201 IL	
44A	Approach Span Material.			52	Max Longth Span:	100.299 Il 102.592 ft	
44D 46	Number of Approach Span	s. 0		40		STRATIVE	
107	Deck Type	(1) Concrete-Cast-in-	-Place	27	Veer Built	1060	
108A	Wearing Surface:	(6) Bituminous	1 1000	21	Year Duilt:	1960	
108B	Membrane:	(0) None		10		(1) Highwov	
108C	Deck Protection:	(1) Epoxy Coated Re	inforcina	42/	A Type of Service Unit	(1) Fighway	
Over	lav Y/N:	Yes	interentg	421	Historical Significance	(T) Figliway (F) Not Eligible	
Over	lav Type:	I T Poly		21	Maintonanco Posnonsibi		
Over	lav Thickness:	2 250 in		21		(01) State Hwy Agency	
Over	lav Date:	2012		10	Dwiler.	(01) State Hwy Agency (N) No II Structure Exist	te
				52	Width Out to Out:	105.299 ft	.5
	APPR	AISAL			CLEA	RANCES	
36A	Bridge Railings:	(1) Meets Standards		10	Vert. Clearance:	14.669 ft	
36B	Transitions	(1) Meets Standards		53	Min. Vert. Clearance Ove	r: 99.999 ft	
36C	Approach Guardrail:	(1) Meets Standards		54	A Vert. Under Reference:	(H) Hwy beneath struct.	
36D	Approach Guardrail Ends:	(1) Meets Standards		54	B Min. Vert. Underclearanc	e: 14.669 ft	
71	Waterway Adequacy:	(N) Not Applicable		55/	A Lateral Under Reference:	(H) Hwy beneath struct.	
72	Approach Alignment:	(8) Equal Desirable (Crit	551	B Min. Lat. Underclearance	R: 8.000 ft	
113	Scour Critical:	(N) Not over Waterwa	ау	56	Min. Lat. Underclearance	L: 8.000 ft	
Reco	mmended Scour Critical:	(N) Not over Waterwa	ау	10	Vert. Clearance:	15.000 ft	
	LOAD R	ATINGS			POS	TINGS	
63	Operating Type: (1) Load	Factor (LF)		41	Posting Status:	(A) Open, No Restriction	
64	Operating Rating: 60.0 tons	S		Sig	Ins Posted Cardinal:	No	
65	Inventory Type: (1) Load	Factor (LF)		Sig	Ins Posted Non-Cardinal:	No	
66	Inventory Rating: 36.0 tons	S		Fie	Id Postings Gross:	tons	
Trucl	k Capacity Type I: 0 tons			Fie	Id Postings Type I:	tons	
Trucl	k Capacity Type II: 0 tons			Fie	Id Postings Type II:	tons	
Trucl	k Capacity Type III: 0 tons			Fie	Id Postings Type III:	tons	
					Id Deetherne True IV/		

55A Lateral Under Reference: (H) Hwy beneath struct.

55B Min. Lat. Underclearance R: 8.000 ft

56 Min. Lat. Underclearance L: 8.000 ft

12: Re C	2: Re Concrete Deck												
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4				
SQ.FT	167,854	146,229	87%	21,625	13%	0	0%	0	0%				

Efflorescence, scattered staining, delamination with exposed rebar under the deck between beams and over the pier 121W, Pier 118E, Pier 118W, and Abutments.

510: We	510: Wearing Surfaces												
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4				
SQ.FT	159,413	159,413	100%	0	0%	0	0%	0	0%				
No spalls	No spalls or potholes except where the asphalt joint is present. Debris over top of deck.												

107: Steel Opn Girder/Beam													
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4				
FT	5,723	5,437	95%	286	5%	0	0%	0	0%				
Some su	rface rust is formin	ng on beams.											

515: Steel Protective Coating												
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4			
FT	13,159.74	13,028.07	99%	131.67	1%	0	0%	0	0%			
The prote	ective coatings of	the steel beams e	xhibit subs	tantially effective p	protection.							

109: Pre Opn Conc Girder/Beam													
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4				
FT	11,600	11,598	100%	0	0%	2	0%	0	0%				
There is	a shear crack in w	veb of PCIB at P1	18W.										

110: Re	110: Re Conc Opn Girder/Beam													
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4					
FT	4,626	4,510	97%	95	2%	21	0%	0	0%					
There are Beam #4	e several location: at P106W, Beam	s of cracking, spal n #8 at P112W, Be	ling, stainir am #16 at	ng, and exposed re P118W, Beam #1	einforceme 6 between	nt over the piers. piers P119 and P	These loca 120.	tions include:						

205: Re Conc Column													
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4				
EACH	152	120	79%	32	21%	0	0%	0	0%				
Cracking	, spalling, expose	d rebar and stainir	ng on most	piers at joint local	lion.								

215: Re	215: Re Conc Abutment												
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4				
FT	188	155	82%	33	18%	0	0%	0	0%				
There are Abutmen	e several location t A5 exhibits crac	s of cracking, spal king and spalling o	ling, delam of the back	ination and expose wall and the portion	sed rebar o on (2") of s	f the back wall an hear key is gone.	d cap of Er	nd Bent C.					

234: Re	234: Re Conc Pier Cap											
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4			
FT	2,446	2,198	90%	150	6%	98	4%	0	0%			
There are	e several locations	s of cracking (CS2), spalling	(CS2), staining an	d exposed	reinforcement (CS	S3) at piers	and abutments.				

302: Compressn Joint Seal													
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4				
FT	855	0	0%	0	0%	855	100%	0	0%				
Loose pla	ate and asphalt pl	ug over joint and v	water proof	ing mix which was	construct	ed on 2012 is dete	riorated ar	Id breaking loose,					

causing the joint to leak. Broken assembly has created a loud noise from traffic impact. The element has impact damage. Existing joints were covered over with asphalt plug joints as part of 2012 repair contract and can no longer be visually inspected. See Element 306 for noted deficiencies.

306: Other Joint												
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4			
FT	855	767	90%	28	3%	40	5%	20	2%			
Minor to r	moderate crackinę	g in all the asphalt	ic joints va	rying from 1/8 to 2	1/2 inch. S	Bliding plate is exp	oosed at joi	nt 115E.				

310: Elastomeric Bearing											
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4		
EACH	346	346	100%	0	0%	0	0%	0	0%		
No defici	encies noted.										

311: Moveable Bearing											
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4		
EACH	153	0	0%	153	100%	0	0%	0	0%		
Bearings	have surface rust	t starting to form th	nroughout.	Bearing devices u	Inder RCD	G sections are rus	sted, partic	ularly at Pier 112.			

515: Ste	eel Protective Co	ating									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4		
EACH	111.11	0	0%	111.11	100%	0	0%	0	0%		
The protective coatings of the moveable bearings exhibit limited effectiveness on all the rocker bearings.											

313: Fixed Bearing										
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4	
EACH	51	0	0%	51	100%	0	0%	0	0%	
Rust is st	tarting to form on	fixed bearings, pa	rticularly at	the RCDG bearin	gs.					

515: Steel Protective Coating											
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4		
EACH	37.53	0	0%	37.53	100%	0	0%	0	0%		

The protective coatings of the fixed bearings exhibit substantially effective protection.

331: Re Conc Bridge Railing											
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4		
FT	5,353	5,164	96%	189	4%	0	0%	0	0%		
Barriers I	have minor cracks	and scrapes.									

852: Drains											
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4		
(EA)	1	0	0%	0	0%	1	100%	0	0%		
Most dra	ains are clogged a	ind need cleaning.	. Drain pipe	e is missing at pier	120E.						

STRUCTURE NOTES

-Beginning with the 2010 inspection, inspections should be completed utilizing the bridge component numbering system used in the original and rehab bridge plans. A layout plan sheet specifically marked for bridge component numbering has been placed in the district bridge file and the scanned electronic bridge file for quick reference.

-In 2006, ends of some PCI beams were repaired with CFRP fabric by a contract though the Kentucky Transportation Center. (Project No. I-65-PCG05)

-2012 repair contract (Contract ID 121305 Proposal and Plans) included the following: 1. The deck was overlaid with 2.25? of an asphalt waterproofing mix (low temp., a product by "Road Science" - not Rosphalt), 2. Asphalt plug joints were installed over most existing joints.

-State forces performed an in-depth inspection of the steel spans in 2001, and a consultant performed one in 2007. See previous reports for details.

-The coding guide does NOT allow for accurate coding of Items 43 and 44 for this bridge - it has steel, PCI and RCDG continuous spans. Since no one type is dominant, Item 43 was coded as steel continuous (higher priority for in-depth inspections) and all spans were counted as "main" spans (no approach spans were coded).

INSPECTION NOTES

The Standard Inspection was performed by Stantec Consulting Services, Inc. on December 17, 2014. The inspectors included Matthew Mullins and Majid Rezaee. No specialized access techniques or equipment was utilized for this inspection. The top side of deck was inspected from the outside shoulders of the north bound and south bound lanes (no traffic control was used).

WORK

Action: 1038 - Drainage-Clean/Clear Deck Drains/Downspouts

Generated by tgking on 12/13/2010 - Drains need to be cleaned and drain pipes unclogged/replaced. NTW 12/13/12

Generated by user "MREZAEE" on 12/17/2014 Clean clogged drains.

Action: 1046 - Joints-Repair

Generated by tgking on 12/13/2010 - Joints in various states of disrepair need to be resealed or replaced.

Generated by user "MREZAEE" on 12/17/2014 Joints need to be repaired or needs new patching.