HistoricBridges.org - National Bridge Inventory Data Sheet

The National Bridge Inventory contains data submitted by state transportion departments to the Federal Highway Administration in coded format.

Form Interface Design: www.historicbridges.org. Data Conversion Assistance By www.bridgehunter.com. None of the involved parties make any guarantee of accuracy.

Basic Information							40.377778	-80.615
Ohio Jefferson County		Steubenville	eubenville 1.47MI.N.OF MARKET ST BR		40.377770	-00.013		
4101987	Highway ager	ncy district: 11	Owner State Highway A	Owner State Highway Agency Maintenance		eresponsibility	State Highway Ag	ency
Route 822	SR 8	322(FT.STEUBEN)	Toll On fre	ee road	Features intersed	cted OVER SR7	NB,RR,OHIO R.	
Design - Steel main		Design - Ste approach		Kilometerpoint Year built 1928	40.9 Year re	constructed 1972	2	
3 Suspension		4 Giro	der and floorbeam system	Skew angle 0 Historical significant	Structure F	Flared s not eligible for t	he NRHP.	
Total length 1585.1	Le	ength of maximum	span 689	Deck width, out-t	o-out 24	Bridge road	dway width, curb-to-	curb 20.3
Inventory Route, Total Horizontal Clearance 20.3 Curb or sidewalk width - left 0.7						Curb or side	ewalk width - right	4.3
Deck structure type		Closed Grating						
Type of wearing surface	ce [Bituminous						
Deck protection								
Type of membrane/we	aring surface	Other						
Weight Limits								
Bypass, detour length	Method to deterr	mine inventory ratir	ng No rating analysis pe	erformed	Inventory rating	0		
0.1	Method to deterr	mine operating ration	ng No rating analysis pe	erformed	Operating rating	0		
	Bridge posting				Design Load M	13.5 / H 15		

Functional Details	
Average Daily Traffic 1900 Average daily tr	uck traffi 2 % Year 2007 Future average daily traffic 2637 Year 2030
Road classification Minor Arterial (Urban)	Lanes on structure 2 Approach roadway width 20
Type of service on bridge Highway	Direction of traffic 2 - way traffic Bridge median
Parallel structure designation No parallel structure	
Type of service under bridge Highway-waterway-rail	road Lanes under structure 2 Navigation control Navigation control on waterway (bridge permit required).
Navigation vertical clearanc 86	Navigation horizontal clearance 500
Minimum navigation vertical clearance, vertical lift brid	Minimum vertical clearance over bridge roadway 195.9
Minimum lateral underclearance reference feature R	ailroad beneath structure
Minimum lateral underclearance on right 7.9	Minimum lateral underclearance on left 7.9
Minimum Vertical Underclearance 208.3	Minimum vertical underclearance reference feature Railroad beneath structure
Appraisal ratings - underclearances Meets minimum	tolerable limits to be left in place as is
Description of Description of Discription	
Repair and Replacement Plans	
Type of work to be performed	Work done by Work to be done by contract
Other structural work, including hydraulic replacements.	Bridge improvement cost 160 Roadway improvement cost 40
	Length of structure improvement 1585.1 Total project cost 200
	Year of improvement cost estimate 2004
	Border bridge - state Unknown Border bridge - percent responsibility of other state
	Border bridge - structure number 0

Inspection and Sufficiency								
Structure status Bridge close	ure status Bridge closed to all traffic							
Condition ratings - superstructure	Poor	Appraisal ratings - roadway alignment	Meets minin					
Condition ratings - substructure	Fair	Appraisal ratings -						
Condition ratings - deck	Critical	deck geometry						
Scour	Bridge foundations determine	d to be stable for assesse	ed or calculated	d scour condition.				
Channel and channel protection	Bank protection is in need of Banks and/or channel have n		rol devices and	l embankment prote	ection have a little minor damage.			
Appraisal ratings - water adequac	Superior to present desirable	ent desirable criteria		Status evaluation	Structurally deficient			
Pier or abutment protection	None present but re-evaluati	on suggested	5	Sufficiency rating	9.4			
Culverts Not applicable. Used if structure is not a culvert.								
Traffic safety features - railings								
Traffic safety features - transition	ns							
Traffic safety features - approach	n guardrail Inpected fea	cted feature meets currently acceptable standards.						
Traffic safety features - approach guardrail ends								
Inspection date Jan-09 Designated inspection frequency 12 Months								
Underwater inspection Unknown		Underwater inspec	ction date	Nov-07				
Fracture critical inspection Every two years			Fracture critical inspection date Dec-07					
Other special inspection	Every year	Other special inspe	ection date	Jan-09				

Unit of Measure: English Structure File Number 4101987 Sufficiency Rating: 09.4 SD			Bridge Inventory Informatio Inventory Bridge Number:JEF 00822 ON OVER SR7NB,RR,OHIO F	2 0041		Report Date 08/25/2010 BM-191 Page: 1 of 2 BR. Type STEEL / SUSPENSION / THRU Date of Last Inventory Update: 01/28/2009
District: 11	Cour	nty JEFFERSON	(101) Location	1: 1.47MI.N.OF MARKET ST	DD.	(102) Facility Carried: SR 822(FT.STEUBEN)
(2)FIPS Code: STEUBENVILLE	Cour	ny JEFFERSON	` ,	on Bridge: STATE (ODOT)	DK	(104) Route Under Bridge: STATE (ODOT)
(9) Direction of Traffic: 2-WAY TRAFFIC	(10)	Temporary: N	(103) Route C			(12)Parallel: N
(95) Insp: OHIO TRAN DEPT (96) Maint: O			, ,	erv: (On): HIGHWAY		(Under): HIGHWAY/WATERWAY/RAI
		77) Roddine. Onio TRA				(Olider): HIGHWAT/WATERWAT/RAI
(3) Route On/Under: ON	Route Data Hwy Sys: STATE HI	ICH/WAY	(63) Main Spans Number: 3	Type: STEEL / SUSPENSION Type: STEEL / GIRDER / D		
Route No.: 00822 Dir:	Des: MAINLINE	Pref:	Approach Spans Number: 4	, , , , , , , , , , , , , , , , , , ,	DECK	(CC) Overall Langu 4595 Ft
(4) Feature Intersected: OVER SR7NB,RR		riei.	Total Spans: 7	(65) Max Span: 689 Ft		(66) Overall Leng: 1585 Ft
(5) County: JEF Mileage: 0041	Special Desig:		(70) Substructure	(71) Foundation and Scour	Information	5 B00%
(6) Avg. Daily Traffic(ADT): 1,900	(7) ADT Year: 2007		Abut-Rear Matl: CONCRETE	Type: GRAVITY		Fnd: ROCK
(8) Truck Traf: 40 (14) NHS: NO - X	, ,		Abut-Fwd Matl: CONCRETE	Type: GRAVITY		Fnd: ROCK
(16) Functional Class: MINOR ARTERIAL-URBA		Ctrobat: Not Applicable	Pier-Pred Matl: CONCRETE	Type: SOLID WALL		Fnd: ROCK
, ,	d Route Data	Strammt. Not Applicable	Pier-Other Matl: NONE	Type: NONE		Fnd: NONE/NOT APPLICABLE (SUCH AS CULVERTS)
		ICHWAY	Pier-Other Matl: NONE	Type: NONE		Fnd: NONE/NOT APPLICABLE (SUCH AS CULVERTS)
(22) Route On/Under: UNDER	Hwy Sys: STATE HI		No of Piers Predominate: 06	Other: NN		Other: NN
Route No.: 00007 Dir: 1	Des: 1	Pref:	(86) Stream Velocity: UUU	(74) Scour: STABLE: SCO	UR WITHIN LI	
(23) Feature Intersected: SR822(FT.STEU	•		(189) Dive: Y Freq: 60	Probe: N Freq: 0		(75) Chan Prot: NONE
(24) County: JEF Mileage: 1788	Special Desig:	_	(189) Date of last Dive Insp: 11/14/2007	(152) Drainage Area: 9999	•	
(25) Avg. Daily Traffic(ADT): 14,710	(26) ADT Year: 2007	1			nder the Bridg	
(27) Truck Traf: 1,800 (28) NHS: YES - N		0	(156) Min. Horiz Under Clear:	NC: 0.0 Ft		Card: 35.5 Ft
(30) Functional Class: other freeway or ex		Strannt: Not Applicable	(101) I lao Max VII Ollaol Oloal.	20.9 Ft		
	On the Bridge	0 1 40 0 5:	(77) Min Vert Under Clear:	NC: 0.0 Ft		Card: 20.8 Ft
(154) Min Hriz on Bridge:	NC: 0.0 Ft	Card: 20.2 Ft	(78) Min Lat Under Clear:	NC: 0.0 / 0.0 Ft		Card: 8.0 / 8.0 Ft
(155) Prac Max Vert On Brg:	19.6 Ft		Load Rating Inforr	nation		(88-89) Appraisal
(67) Min Vrt Clr On Brg:	NC: 0.0 Ft	Card: 19.6 Ft	(48) Design Load: H/15		(Including cald	culated Items)
(80) Min Latl Clr:	NC: 0.0 / 0.0 Ft	Card: 0.0 / 0.0 Ft	(83) Operating: 0 Ton			
,	0.0 Ft		Inventory: 0 Ton			
	Information		Ohio Percent of Legal Load 0		(88) Waterway	y Adequacy 9
(38) Bypass Length: 01 Miles			Year of Rating: 2009		(89) Approach	n Alignment 4
(39) Latitude: 40 Deg 22.7 Min	Longitude: 80 Deg 3	36.9 Min	(84) Analysis: ENGINEERING JUDGEMEN	IT [DEFAULT]	Calc Gen App	oraisal: 0
(40) Toll: ON FREE ROAD			(85) Rate Soft: COMBINATION Analyzed b	y: 121	Calc Deck Ge	eometry: 0
(41) Date Built: 07/01/1928	(42) Major Rehabilita		Analysis on Bars: NOT ON BARS [DEFAU	LT]	Calc Undercle	earance: 4
(43) No. Lanes On: 2	No. Lanes Under: 2			Approach	Information	
(44) Horiz Curve: Deg. Min.	(45) Skew: 0 Deg		(109) Approach Guardrail: STEEL BEAM			
(49) App. Rdw Width: 20 Ft	(50) Brg. Rdw Width		(110) Approach Pavement: BITUMINOUS		(111) Grade: (GOOD
(51) Deck Width: 24.0 Ft	Deck Area: 38040 S	Sq. Ft		Culvert I	nformation	
(52) Median Type: NONE / NON BARRIE	/ NO JOINT		(131) Culvert Type: NONE/NOT APPLICBI	LE	(127) Length:	0.0 Ft
(53) Bridge Median: NO MEDIAN			(129) Depth of Fill: 0.0 Ft		(130) Headwa	
(54) Sidewalks:	(left) 0 Ft	(right) 4 Ft		General I	nformation	
(55) Type Curb or Sidewalks:			(121) Main Member RIVETED BUILT-UP S	STEEL		(122) Moment Plate: NONE
(Left) Matl: STEEL	Type: SAFETY CUR	` '	(169) Expansion Joint: STEEL REINFORC			,
` ` ` ,	Type: SIDEWALK(>	•	(124) Bearing Devices: FIXED/ROCKERS			
(56) Flared: N (57) Composite: non-composite		(126) Navigation: Control- Y	Vert Clr: 86.0 Ft		Horiz Clear:: 500.0 Ft	
(58) Railing: STEEL POST & STEEL PANEL (DECORATIVE)			(193) Spec Insp: Y	Freq: 12		Date: 2009-01-09
(59) Deck Drainage: SCUPPERS & DWNSPTS			(188) Fracture Critical Insp: Y	Freq: 24		Date: 2007-12-17
(60) Deck Type: STEEL GRID - FILLED			(138) Long Member: NOT APPLICABLE	- 1		(135) Hinges: PINS, PIN PLATES
(61) Deck Protection: External: OTHER			(141) Structural Steel Memb: OTHER			(139) Framing: STRAIGHT
Internal: NONE			,			Railing: UNKNOWN
(62) Wearing Surface: BITUM (ASPHLT C	•		Pay Wt: 4,332,599 pounds	Prime Loc: FIELD		Paint: OTHER
` '	ng Surface: 07/16/20 0	00	Bridge Dedicated Name: FT. STEUBEN			
Slope Protection: STONE (NO.1 AGGREG	iATE)		<u> </u>			

Unit of Measure: **English** Structure File Number **4101987** Sufficiency Rating: 09.4 SD

Bridge Inventory Information

Inventory Bridge Number: JEF 00822 0041 ON OVER SR7NB,RR,OHIO R.

Report Date 08/25/2010 BM-191 Page: 2 of 2 BR. Type STEEL/SUSPENSION/THRU Date of Last Inventory Update: 01/28/2009

, ,								, ,			
		General Information (Continued)				ans Information				
() Hist Significance: NO	T HISTORIC			(69) NBIS: Y	(142) Fabricator: DRAVO (CONTR.CO					
) Hist Builder: STEUBENVILLE-WEIRTON BRIDGE Hist Build Year: 1928				(143) Contractor: DRAVO CONTR.CO						
CO DRAVO COR					(144) Ohio Original Construction Project No.: NA.PVT						
` ' ''	69) Hist Type: SUSPENSION					() Microfilm Reel:					
(161) Special Features (se	,				(151) Standard Drawing:						
(105) Border Bridge State			0000000		Aperture Cards: Orig: Y Re	epair: Y Fabr: Y					
		Improvements		Programming Info		1PLAN INFORMATION AVAIL	ABLE				
(90) Type Work: 38 - OTH	IER STRUCTI	URAL WORK		PID Number: 17794			pair Projects				
				PID Status: PROGRAM	1. / MMM	2. 770276 / 044		3. 780847 / UUU			
(90) Length: Ft				PID Date: 06/16/2000	4. / 020	5. 840541 / 044		6. 850903 / 099			
(90) Bridge Cost (\$1000s)): 0				7. / 020	8. 890017 / UUU		9. 900916 / 048			
(90) Roadway Cost (\$100	00s): 0				10. 920730 / 041	9. 303011 7 3 3 3	·				
(90) Total Project Cost (\$	1000s): 0	(90) Y	'ear:		0. 0201007 011						
(91) Future ADT (On Bridg	ge): 0	(92) Y	ear of Future ADT: 20)30		Utilities		Special Features			
Inspection Sum	mary		(I-69) Survey Iter	ns	(46) Electric:	Υ	(161) Lighting:	Υ			
(I-8) Deck:	2	Railings:	0 DOES NOT MEE	T CURRENT STANDARDS	Gas:	N	Fencing:	Υ			
(I-32) Superstructure:	4	Transitions:	0 DOES NOT MEE	T CURRENT STANDARDS	Sanitary Sewer:	N	Glare-Screen:	N			
(I-42) Substructure:	5	Guardrail:	1 MEETS CURREN	IT STANDARDS	Telephone:	N	Splash-Guard:	N			
(I-50) Culvert:		Rail Ends:	0 DOES NOT MEE	T CURRENT STANDARDS		N	Catwalks:	N			
(I-54) Channel:	7	Pavement Mark:	1 MEETS CURREN	IT STANDARDS	Water:	N	Other-Feat:	N			
(I-60) Approaches:	6	Restrict Sign:	0 DOES NOT MEE	T CURRENT STANDARDS		N	(184) Signs-on:	N			
(I-66) General Appraisial:	2	Warning Sign:	0 DOES NOT MEE	T CURRENT STANDARDS			Signs-Under:	N			
(I-66) Operational Status:	K	End Markers:	0 DOES NOT MEE	T CURRENT STANDARDS			(162) Fence-Ht:	3.0 Ft			
Inspection Date:	01/09/2009	Insp. Update Date:	01/28/2009				(163) Noise Barr:	N			
(94) Desig Insp Freq:	12 Months						(123) 110.00 20.11	••			
		1			1						
SFNs Replacing this retire	ed bridge:		-								
SFNs That where replace	d by this brida	ie:	-								
This bridge was retired an	, ,	,			INIV Field Daidne Marker		IEE 00000 0044		l		
The bridge was copied from					INV Field Bridge Marker:		JEF-00822-0041 -		l		
					INT Field Bridge Marker:		JEF-00007-1788 -				

PONTIS CoRe elements and Condition States

Elem No.	CoRe Element Description	Total Quantity	Unit Meas.	Condition State Percents(*)				
				1	2	3	4	5
29	STEEL DECK - CONCRETE FILLED GRID	1	EA	0	0	0	0	0
215	REINFORCED CONC ABUTMENT	48	LF	0	0	0	0	0
303	ASSEMBLY JOINT/SEAL	48	LF	0	0	0	0	0
321	REINFORCED CONCRETE APPROACH SLAB	2	EA	0	0	0	0	0
330	METAL BRIDGE RAILING	3170	LF	0	0	0	0	0
	•	(*) Pe	rcentages S	hou	ld a	dd t	o 10	00%

STATE OF OHIO DEPARTMENT OF TRANSPORTATION BRIDGE INSPECTION REPORT

BR-86 REV 02-95

4 1 0 1 9 8 7

Bridge Number JEF 00822 0041 CO ROUTE UNIT

STEUBENVILLE

Date Built 07/01/1928 - 1972

District 11 Bridge Type STEEL/SUSPENSION	ON/THRU	Ту	ype Service 1 18 OVER SR7NB,RR,OHIO R.	<u>E</u>
DECK 1. Floor	Out/Out 24.0 4-STEEL GRID - FILLED 8	4	THCK = 1.3 2. Wearing Surface 6-BITUM (ASPHLT CONCRT) 4	2
3. Curbs, Sidewalks, Walkways	2-STEEL 2-STEEL 9	3	W.S. Date = 07/16/2000 4. Median	2
5. Railing	6-STEEL POST & STEEL PAN 10	3	6. Drainage 3-SCUPPERS & DWNSPTS 4	3 2
7. Expansion Joints	7-STEEL REINFORCED ELAST 11	3	8. Summary 4	4 2
SUPERSTRUCTURE	MAX.SPAN=689	1		T ₂
9. Alignment	12	1	10. Beams/Girders/Slab 2-RIVETED BUILT-UP STEEL 4	5 2
11. Diaphragms or Crossframes	TOT.LGTH=1585	2	12. Joists/Stringers 4	3
13. Floor Beams	14	2	14. Floor Beam Connections 4	7 3
15. Verticals	15	3	16. Diagonals	8 3
17. End Posts	16	3	18. Top Chord 4	9 2
19. Lower Chord	17	3	20. Lower Lateral Bracing 5	2
21. Top Lateral Bracing	18		22. Sway Bracing 5	1
23. Portals	19		B-FIXED 24. Bearing Devices 2-ROCKERS 5	2 2
25. Arch	20		26. Arch Columns or Hangers 5	3
27. Spandrel Walls	21		TYPE = 0-OTHER 28. Protective Coating System DATE = 01/01/1986 5	3
29. Pins/Hangers/Hinges	22	2	30. Fatigue Prone Connections 5	2
31. Live Load Response	23	Е	32. Summary 5	4
SUBSTRUCTURE	2-CONCRETE	<u> </u>	PIERS=6 SPANS = 3	〒
33. Abutments	2-CONCRETE 24	2	34. Abutment Seats 5	7 2
35. Piers	TYPE = 2-CONCRETE 25	2	36. Pier Seats 5	2
37. Backwalls	26	2	ABUTMENT:=ROCK / ROCK 38. Wingwalls	2
39. Fenders and Dolphins	27		40. Scour 5-STABLE: SCOUR WITHIN L 60	2
41. Slope Protection	2-STONE (NO.1 AGGREGATE) 28	2	42. Summary DIVE DT=11/14/2007 6	5
CULVERTS				T
43. General	29		44. Alignment 6	3
45. Shape	30		46. Seams 6	4
47. Headwalls or Endwalls	31		48. Scour	5
49.	32		50. Summary	6
CHANNEL 51. Alignment	33	1	N-NONE 52. Protection	7 1
53. Waterway Adequacy	34	1	54. Summary	8 7
APPROACHES 55. Pavement	2-BITUMINOUS 35	2	56. Approach Slabs	2
57. Guardrail	1-STEEL BEAM 36	2	58. Relief Joints	
59. Embankment	BRDG.WIDTH=20.2 37	2	60. Summary PCT.LEGAL=0 7	6
GENERAL	22 3		ROUTINE.RESP: 1-OHIO TRAN DEPT	
61. Navigation Lights	MVC ON=19.6 UND=0000	4	62. Warning Signs MAINT.RESP: 1-OHIO TRAN DEPT 7 ELEC/	2 4
63. Sign Supports	39		64. Utilities 7	ID STAT
65. Vertical Clearance	40	1	66. General Appraisal & Operational Status	K
67. INSPECTED BY			68. REVIEWED BY	
SIGNED	7 2 3 3 6 M W 78 INITIALS	В	SIGNED 81 PE 83 INITIAL	S
DOT 2852		J		
DECK AREA 38,040	Date 6 1 0 9 0 9 91			105

STATE OF OHIO DEPARTMENT OF TRANSPORTATION BRIDGE INSPECTION REPORT

BR-86 REV 02-95

4 1 0 1 9 8 7

1 Structure File Number 7

General

Bridge Number | <u>JEF</u> | <u>00822</u> | <u>0041</u> | CO | ROUTE | UNIT

Date Built 07/01/1928 - 1972

District $\underline{\textbf{11}}$ Bridge Type $\underline{\textbf{STEEL/SUSPENSION/THRU}}$

Type Service $\underline{1}$ $\underline{1}$ $\underline{8}$

OVER SR7NB,RR,OHIO R.

General JANUARY 9, 2009 A SPECIAL INSPECTION WAS PERFORMED. ONLY

General ITEMS: 1. FLOOR, 8. DECK SUMMARY, 66.GENERAL APPRAISAL AND O

General PERATIONAL STATUS WERE CHANGED. ALL OTHER ITEMS REMAINED FR

OM THE WILBER SMITH INSPECTION 12.1

General 7.07 YRY, PE 65468)