

The National Bridge Inventory contains data submitted by state transportation 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

Ohio Columbiana County East Liverpool .07 MI E OF SR 7 40.62 -80.588333

1502425 Highway agency district 11 Owner Private (other than railroad) Maintenance responsibility Private (other than railroad)

Route #Num! TOLL BRIDGE TO WVA Toll Toll bridge Features intersected US30

Design - main Steel Design - approach Kilometerpoint 3.1

2 Truss - Thru 0 Other Year built 1905 Year reconstructed N/A

Skew angle 0 Structure Flared

Historical significance Historical significance is not determinable at this time.

Total length 109.9 Length of maximum span 65.9 Deck width, out-to-out 33.1 Bridge roadway width, curb-to-curb 22

Inventory Route, Total Horizontal Clearance 36.1 Curb or sidewalk width - left 0 Curb or sidewalk width - right 7.9

Deck structure type Open Grating

Type of wearing surface Low slump Concrete

Deck protection

Type of membrane/wearing surface

Weight Limits

Bypass, detour length 0 Method to determine inventory rating No rating analysis performed Inventory rating 6.9

Method to determine operating rating No rating analysis performed Operating rating 9.9

Bridge posting Design Load M 9 / H 10

Functional Details

Average Daily Traffic Average daily truck traffi % Year Future average daily traffic Year

Road classification Lanes on structure Approach roadway width

Type of service on bridge Direction of traffic Bridge median

Parallel structure designation

Type of service under bridge Lanes under structure Navigation control

Navigation vertical clearanc Navigation horizontal clearance

Minimum navigation vertical clearance, vertical lift bridge Minimum vertical clearance over bridge roadway

Minimum lateral underclearance reference feature

Minimum lateral underclearance on right Minimum lateral underclearance on left

Minimum Vertical Underclearance Minimum vertical underclearance reference feature

Appraisal ratings - underclearances

Repair and Replacement Plans

Type of work to be performed

Work done by

Bridge improvement cost Roadway improvement cost

Length of structure improvement Total project cost

Year of improvement cost estimate

Border bridge - state Border bridge - percent responsibility of other state

Border bridge - structure number

Inspection and Sufficiency

Structure status	Posted for load	Appraisal ratings - structural	Basically intolerable requiring high priority of corrective action
Condition ratings - superstructure	Poor	Appraisal ratings - roadway alignment	Somewhat better than minimum adequacy to tolerate being left in place as is
Condition ratings - substructure	Fair	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of corrective action
Condition ratings - deck	Fair		
Scour	Bridge not over waterway.		
Channel and channel protection	Not applicable.		
Appraisal ratings - water adequacy	N/A	Status evaluation	Structurally deficient
Pier or abutment protection		Sufficiency rating	17
Culverts	Not applicable. Used if structure is not a culvert.		
Traffic safety features - railings	Not applicable or a safety feature is not required.		
Traffic safety features - transitions	Not applicable or a safety feature is not required.		
Traffic safety features - approach guardrail	Not applicable or a safety feature is not required.		
Traffic safety features - approach guardrail ends	Not applicable or a safety feature is not required.		
Inspection date	Jul-08	Designated inspection frequency	12 Months
Underwater inspection	Not needed	Underwater inspection date	
Fracture critical inspection	Not needed	Fracture critical inspection date	
Other special inspection	Not needed	Other special inspection date	

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Basic Information

West Virginia Hancock County Newell 0.01 MI NORTH WV 2 40.621667 -80.595

00000000015A801 Highway agency district 6 Owner Private (other than railroad) Maintenance responsibility Private (other than railroad)

Route 0 GOLDING STREET EXT Toll Toll bridge Features intersected OH RIV,NORFOLK SO , US30

Design - main Steel continuous Design - approach Steel continuous Kilometerpoint 0
 1 Suspension 4 Mixed types Year built 1905 Year reconstructed 1954
 Skew angle 0 Structure Flared
 Historical significance Historical significance is not determinable at this time.

Total length 1590 Length of maximum span 742.2 Deck width, out-to-out 22.3 Bridge roadway width, curb-to-curb 20.7

Inventory Route, Total Horizontal Clearance 21.3 Curb or sidewalk width - left 5.9 Curb or sidewalk width - right 0

Deck structure type Open Grating

Type of wearing surface

Deck protection

Type of membrane/wearing surface

Weight Limits

Bypass, detour length 0.5 Method to determine inventory rating Allowable Stress(AS) Inventory rating 9.9

Method to determine operating rating Allowable Stress(AS) Operating rating 9.9

Bridge posting Design Load

Functional Details

Average Daily Traffic Average daily truck traffi % Year Future average daily traffic Year

Road classification Lanes on structure Approach roadway width

Type of service on bridge Direction of traffic Bridge median

Parallel structure designation

Type of service under bridge Lanes under structure Navigation control

Navigation vertical clearanc Navigation horizontal clearance

Minimum navigation vertical clearance, vertical lift bridge Minimum vertical clearance over bridge roadway

Minimum lateral underclearance reference feature

Minimum lateral underclearance on right Minimum lateral underclearance on left

Minimum Vertical Underclearance Minimum vertical underclearance reference feature

Appraisal ratings - underclearances

Repair and Replacement Plans

Type of work to be performed

Work done by

Bridge improvement cost Roadway improvement cost

Length of structure improvement Total project cost

Year of improvement cost estimate

Border bridge - state Border bridge - percent responsibility of other state

Border bridge - structure number

Inspection and Sufficiency

Structure status

Posted for load

Appraisal ratings -
structural

Basically intolerable requiring high priority of replacement

Condition ratings - superstructure

Satisfactory

Appraisal ratings -
roadway alignment

Better than present minimum criteria

Condition ratings - substructure

Good

Appraisal ratings -
deck geometry

Basically intolerable requiring high priority of replacement

Condition ratings - deck

Fair

Scour

Bridge foundations determined to be stable for the assessed or calculated scour condition.

Channel and channel protection

Banks are protected or well vegetated. River control devices such as spur dikes and embankment protection are not required or are in a stable condition.

Appraisal ratings - water adequacy

Superior to present desirable criteria

Status evaluation

Structurally deficient

Pier or abutment protection

Navigation protection not required

Sufficiency rating

29.7

Culverts

Not applicable. Used if structure is not a culvert.

Traffic safety features - railings

Inspected feature meets currently acceptable standards.

Traffic safety features - transitions

Traffic safety features - approach guardrail

Traffic safety features - approach guardrail ends

Inspection date

Apr-08

Designated inspection frequency

12

Months

Underwater inspection

Unknown

Underwater inspection date

May-04

Fracture critical inspection

Every year

Fracture critical inspection date

39539

Other special inspection

Unknown

Other special inspection date

Unit of Measure: **English**
Structure File Number **1502425**
Sufficiency Rating: **13.0 SD**

Bridge Inventory Information
Inventory Bridge Number: **COL 00030 3442**
UNDER PART NEWELL BR.OVR.US30

Report Date **12/29/2010** BM-191 Page: 1 of 2
BR. Type STEEL / TRUSS / THRU
Date of Last Inventory Update: **08/02/2010**

District: **11** County **COLUMBIANA** (101) Location: **.07 MI E OF SR 7** (102) Facility Carried: **TOLL BRIDGE TO WVA**
(2) FIPS Code: **EAST LIVERPOOL** (103) Route On Bridge: **TOLL (PRIVATE)** (104) Route Under Bridge: **STATE (ODOT)**
(9) Direction of Traffic: **2-WAY TRAFFIC** (10) Temporary: **N** (11) Truck Network: **N** (12) Parallel: **N**
(95) Insp: **COMBINATION** (96) Maint: **PRIVATE** (97) Routine: **PRIVATE** (100) Type Serv: (On): **HIGHWAY/PEDESTRIAN** (Under): **HIGHWAY, WITH OR WIT**

Inventory Route Data
(3) Route On/Under: **UNDER** Hwy Sys: **U.S. NUMBERED HIGHWAY** (63) Main Spans Number: **2** Type: **STEEL / TRUSS / THRU**
Route No.: **00030** Dir: Des: **MAINLINE** Pref: **P** Approach Spans Number: **0** Type: **NONE / NONE / NONE**
Total Spans: **2** (65) Max Span: **66** Ft (66) Overall Leng: **110** Ft

(4) Feature Intersected: **PART NEWELL BR.OVR.US30** (70) Substructure (71) Foundation and Scour Information
(5) County: **COL** Mileage: **3442** Special Desig: Abut-Rear Matl: **CONCRETE AND STONE** Type: **SOLID WALL** Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**
(6) Avg. Daily Traffic(ADT): **20,170** (7) ADT Year: **2009** Abut-Fwd Matl: **NONE** Type: **NONE** Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**
(8) Truck Traf: **1,800** (14) NHS: **YES - N** (15) Corridor: **N** Pier-Pred Matl: **STEEL AND CONCRETE** Type: **OPEN COLUMN** Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**
(16) Functional Class: **OTHER FREEWAY OR EXPRESSWAY-URBAN** (19) Strahnt: **Non-Interstate** Pier-Other Matl: **NONE** Type: **NONE** Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**
Pier-Other Matl: **NONE** Type: **NONE** Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**

Intersected Route Data
(22) Route On/Under: **ON** Hwy Sys: **OTHER** No of Piers Predominate: **02** Other: **NN** Other: **NN**
Route No.: **NEWELL** Dir: Des: **1** Pref: (86) Stream Velocity: **NNN** (74) Scour: **BRIDGE NOT OVER WATERWAY**
(23) Feature Intersected: **US30** (189) Dive: **N Freq: 0** Probe: **N Freq: 0** (75) Chan Prot: **N/A**
(24) County: **COL** Mileage: **0003** Special Desig: (189) Date of last Dive Insp: (152) Drainage Area: **NNNN** Sq Mi

(25) Avg. Daily Traffic(ADT): **2,000** (26) ADT Year: **1900**
(27) Truck Traf: **0** (28) NHS: **NO - X** (29) Corridor: **N**
(30) Functional Class: **LOCAL ROAD-URBAN** (36) Strahnt: **Not Applicable**

Clearance On the Bridge
(154) Min Hriz on Bridge: NC: **0.0** Ft Card: **36.0** Ft
(155) Prac Max Vert On Brg: **15.4** Ft
(67) Min Vrt Clr On Brg: NC: **0.0** Ft Card: **15.4** Ft
(80) Min Latl Clr: NC: **0.0 / 0.0** Ft Card: **0.0 / 0.0** Ft
(81) Vrt Clr Lft: **0.0** Ft
(81) Vrt Clr Rgt: **0.0** Ft

Clearance Under the Bridge
(156) Min. Horiz Under Clear: NC: **45.0** Ft Card: **49.8** Ft
(157) Prac Max Vrt Under Clear: **19.3** Ft
(77) Min Vert Under Clear: NC: **17.4** Ft Card: **19.3** Ft
(78) Min Lat Under Clear: NC: **0.0 / 0.0** Ft Card: **0.0 / 0.0** Ft

Load Rating Information (88-89) Appraisal
(48) Design Load: **H/10** (Including calculated Items)
(83) Operating: **10** Ton
Inventory: **7** Ton
Ohio Percent of Legal Load **25** (88) Waterway Adequacy **N**
Year of Rating: **1988** (89) Approach Alignment **5**
(84) Analysis: **ENGINEERING JUDGEMENT [DEFAULT]** Calc Gen Appraisal: **3**
(85) Rate Soft: **NO SOFTWARE USED** Analyzed by: Calc Deck Geometry: **3**
Analysis on Bars: **NOT ON BARS [DEFAULT]** Calc Underclearance: **3**

Approach Information
(109) Approach Guardrail: **STEEL BEAM**
(110) Approach Pavement: **BITUMINOUS** (111) Grade: **GOOD**

Culvert Information
(131) Culvert Type: **NONE/NOT APPLICBLE** (127) Length: **0.0** Ft
(129) Depth of Fill: **0.0** Ft (130) Headwalls: **NONE**

General Information
(58) Railing: **STEEL POST & STEEL PANEL (DECORATIVE)**
(59) Deck Drainage: **OTHER-NATURAL(OFF THE BRIDGE ENDS)**
(60) Deck Type: **STEEL GRID - OPEN**
(61) Deck Protection: External: **NONE** (121) Main Member **RIVETED BUILT-UP STEEL** (122) Moment Plate: **NONE**
Internal: **NONE** (169) Expansion Joint: **NONE**
(56) Flared: **N** (57) Composite: (124) Bearing Devices: **OTHER/NONE**
(58) Railing: **STEEL POST & STEEL PANEL (DECORATIVE)** (126) Navigation: **Control- X** Vert Clr: **0.0** Ft Horiz Clear: **0.0** Ft
(59) Deck Drainage: **OTHER-NATURAL(OFF THE BRIDGE ENDS)** (193) Spec Insp: **N** Freq: **0** Date:
(60) Deck Type: **STEEL GRID - OPEN** (188) Fracture Critical Insp: **N** Freq: **0** Date:
(61) Deck Protection: External: **NONE** (138) Long Member: **TWO TRUSSES (RIVETED)** (135) Hinges: **NOT APPLICABLE**
Internal: **NONE** (141) Structural Steel Memb: **UNKNOWN** (139) Framing: **NONE**
(62) Wearing Surface: **DENSE CONCRETE (IOWA SYSTEM) OVERLAY** Railing: **UNKNOWN**
Thickness: **1.2** in (119) Date of Wearing Surface: Pay Wt: **0** pounds Prime Loc: **UNKNOWN** Paint: **OTHER**
Slope Protection: **NONE-NATURAL PROTECTION(GRASS,BUSHES)** Bridge Dedicated Name:

Unit of Measure: **English**
 Structure File Number **1502425**
 Sufficiency Rating: **13.0 SD**

Bridge Inventory Information
 Inventory Bridge Number: **COL 00030 3442**
UNDER PART NEWELL BR.OVR.US30

Report Date **12/29/2010** **BM-191** Page: 2 of 2
BR. Type STEEL/TRUSS/THRU
 Date of Last Inventory Update: **08/02/2010**

General Information (Continued)				Original Plans Information			
(---) Hist Significance: NON-REGISTERED HISTORIC BRIDGE		(69) NBIS: Y		(142) Fabricator:			
(---) Hist Builder: AMERICAN BRIDGE CO		Hist Build Year: 1905		(143) Contractor:			
(69) Hist Type: NONE N/A				(144) Ohio Original Construction Project No.:			
(161) Special Features (see below):				(---) Microfilm Reel:			
(105) Border Bridge State: Resp % (106) SFN:				(151) Standard Drawing:			
Proposed Improvements		Programming Info		Aperture Cards: Orig: N Repair: N Fabr: N			
(90) Type Work: -		PID Number:		Plan Information Available: 1PLAN INFORMATION AVAILABLE			
(90) Length: Ft		PID Status:		(153) Repair Projects			
(90) Bridge Cost (\$1000s): 0		PID Date:		1. / 020		2. / 020	
(90) Roadway Cost (\$1000s): 0				4.		5.	
(90) Total Project Cost (\$1000s): 0		(90) Year:		7.		8.	
(91) Future ADT (On Bridge): 0		(92) Year of Future ADT: 2031		10.		9.	
Inspection Summary		(I-69) Survey Items		Utilities		Special Features	
(I-8) Deck: 5	Railings: N NONE N/A	(I-46) Electric: N	(161) Lighting: Y	(I-32) Superstructure: 4	Transitions: N NONE N/A	Gas: N	Fencing: N
(I-42) Substructure: 5	Guardrail: N NONE N/A	(I-42) Sanitary Sewer: N	Glare-Screen: N	(I-50) Culvert:	Rail Ends: N NONE N/A	(I-42) Telephone: N	Glare-Screen: N
(I-54) Channel:	Pavement Mark: N NONE N/A	(I-42) TV Cable: N	Splash-Guard: N	(I-60) Approaches: 7	Restrict Sign: 1 MEETS CURRENT STANDARDS	(I-42) Water: N	Catwalks: N
(I-66) General Appraisal: 4	Warning Sign: 1 MEETS CURRENT STANDARDS	(I-42) Other: N	Other-Feat: N	(I-66) Operational Status: P	End Markers: N NONE N/A	(I-42) (184) Signs-on: Y	Other-Feat: N
Inspection Date: 07/27/2010	Insp. Update Date: 12/22/2010		(162) Fence-Ht: 0.0 Ft	(94) Desig Insp Freq: 12 Months		(163) Noise Barr: N	
SFNs Replacing this retired bridge: -				INV Field Bridge Marker: COL-00030-3442 -			
SFNs That where replaced by this bridge: -				INT Field Bridge Marker: COL-NEWLL-0003 -			
This bridge was retired and copied to:							
The bridge was copied from:							

PONTIS CoRe elements and Condition States

Elem No.	CoRe Element Description	Total Quantity	Unit Meas.	Condition State Percents(*)				
				1	2	3	4	5
28	STEEL DECK - OPEN GRID	1	EA	0	0	0	0	0
121	PAINTED STEEL BOTTOM CHORD THROUGH TRUSS	220	LF	0	0	0	0	0
126	PAINTED STEEL THRU TRUSS(EXCL BOT CHORD)	220	LF	0	0	0	0	0
217	OTHER ABUTMENT	66	LF	0	0	0	0	0
330	METAL BRIDGE RAILING	220	LF	0	0	0	0	0

(*) Percentages Should add to 100%

STATE OF OHIO DEPARTMENT OF TRANSPORTATION
BRIDGE INSPECTION REPORT

BR-86 REV 02-95

1	5	0	2	4	2	5
Structure File Number 7						

Bridge Number **COL 00030 3442**
 CO ROUTE UNIT

Date Built **07/01/1905**District **11** Bridge Type **STEEL/TRUSS/THRU**Type Service **2 5 1****PART NEWELL BR.OVR.US30**

Deck 1&2.) OPEN STEEL GRID RUST AND SOME BROKEN WELDS.
 Deck 3.) TIMBER WALKWAYS, SOME SPLITTING AND WARPING. SOME NEW
 Deck BOARDS IN '10.
 Deck 5.) SOME DAMAGE TO END PIECE AT LEFT REAR. RUST WITH SOME
 Deck ACTIVE CORROSION.
 Deck 6.) DRAINAGE THROUGH STEEL GRID FLOOR
 Superstructure 10.) RUST & SECTION LOSS.
 Superstructure 12.) RUST & SECTION LOSS. SOME PERFORATIONS IN TOP AND
 Superstructure BOTTOM FLANGES AND IN WEB.
 Superstructure 13.) RUST AND SECTION LOSS. PERFORATIONS AT CONNECTION WITH
 Superstructure LONGITUDINAL AND TRANSVERSE FLOOR BEAMS.
 Superstructure 14.) RUST AND SECTION LOSS SEE #13.
 Superstructure 15.) RUST AND PACK RUST. ALSO SOME SECTION LOSS.
 Superstructure 16.) RUST AND SOME PACK RUST.
 Superstructure 17.) RUST AND PACK RUST. ALSO SOME SECTION LOSS.
 Superstructure 18.) RUST AND PACK RUST. ALSO SOME SECTION LOSS.
 Superstructure 19.) RUST AND PACK RUST. ALSO SOME SECTION LOSS.
 Superstructure 20.) HEAVY RUST AND SOME PACK RUST. 1 RIVET MISSING AT
 Superstructure GUSSET AT ABUTMENT.
 Superstructure 21.) SOME OLD SECTION LOSS.
 Superstructure 22.) SOME OLD SECTION LOSS.
 Superstructure 23.) SOME OLD SECTION LOSS.
 Superstructure 28.) RUST SHOWING MOSTLY FLOOR AND BELOW WITH CRACKED AND
 Superstructure PEELING PAINT, ACTIVE CORROSION, SEE #12,13 & 14.
 Superstructure 31.) CLICKING OF WEARING SURFACE, SEE #2.
 Substructure 33.) MUCH RANDOM CRACKING WITH EFFLORESCENCE SEEPAGE AT
 Substructure CRACKS.
 Substructure 34.) SOME CRACKING TO EDGE OF SEAT..
 Substructure 35.) SOME RUST AND OLD SECTION LOSS AND ACTIVE CORROSION.
 Approaches 55.) CRACKING AND WEARING, SOME PATCHES.
 General 62.) 10 TON WIEGHT LIMIT NO TRUCKS. CLEARANCE 13'6".
 General 64.) NONE.
 General BRIDGE WAS CLOSED FOR REPAIRS AT TIME OF '10 INSPECTION.