



2017 LUC-00280-0283_L (SB SOUTH APPROACH) ROUTINE
INSPECTION REPORT
BRIDGE INSPECTION REPORT

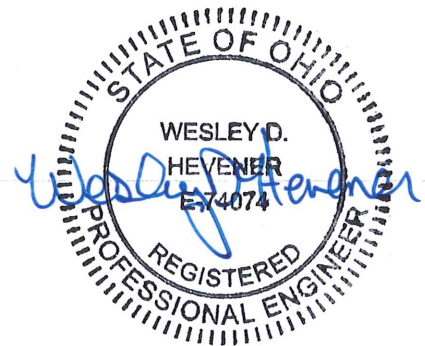
Structure File Number: 4805836

Inventory Bridge Number: LUC 00280 02.830 L

IR-280 over NSRR, RAMP Z, FRONT ST

Inspection Type: Routine

Inspection Date: 09/17/2017



District: 02

County: LUCAS

Place Code (FIPS): TOLEDO

Bridge Type: CONCRETE

Type of Service: HIGHWAY

Owner: OHIO STATE TRANSPORTATION DEPARTMENT

Inspection Responsibility: OHIO STATE TRANSPORTATION
DEPARTMENT

Maintenance Responsibility: OHIO STATE TRANSPORTATION
DEPARTMENT

Lead Inspector: Hevener, Wesley

Reviewed By: Hevener, Wesley

2017 LUC-00280-0283_L (SB SOUTH APPROACH) ROUTINE INSPECTION REPORT

LOCATION MAP

Structure File Number: 4805836

Inventory Bridge Number: LUC 00280 02.830 L

Bridge Type: 1 - CONCRETE/3 - BOX BEAM/2 -
CONTINUOUS

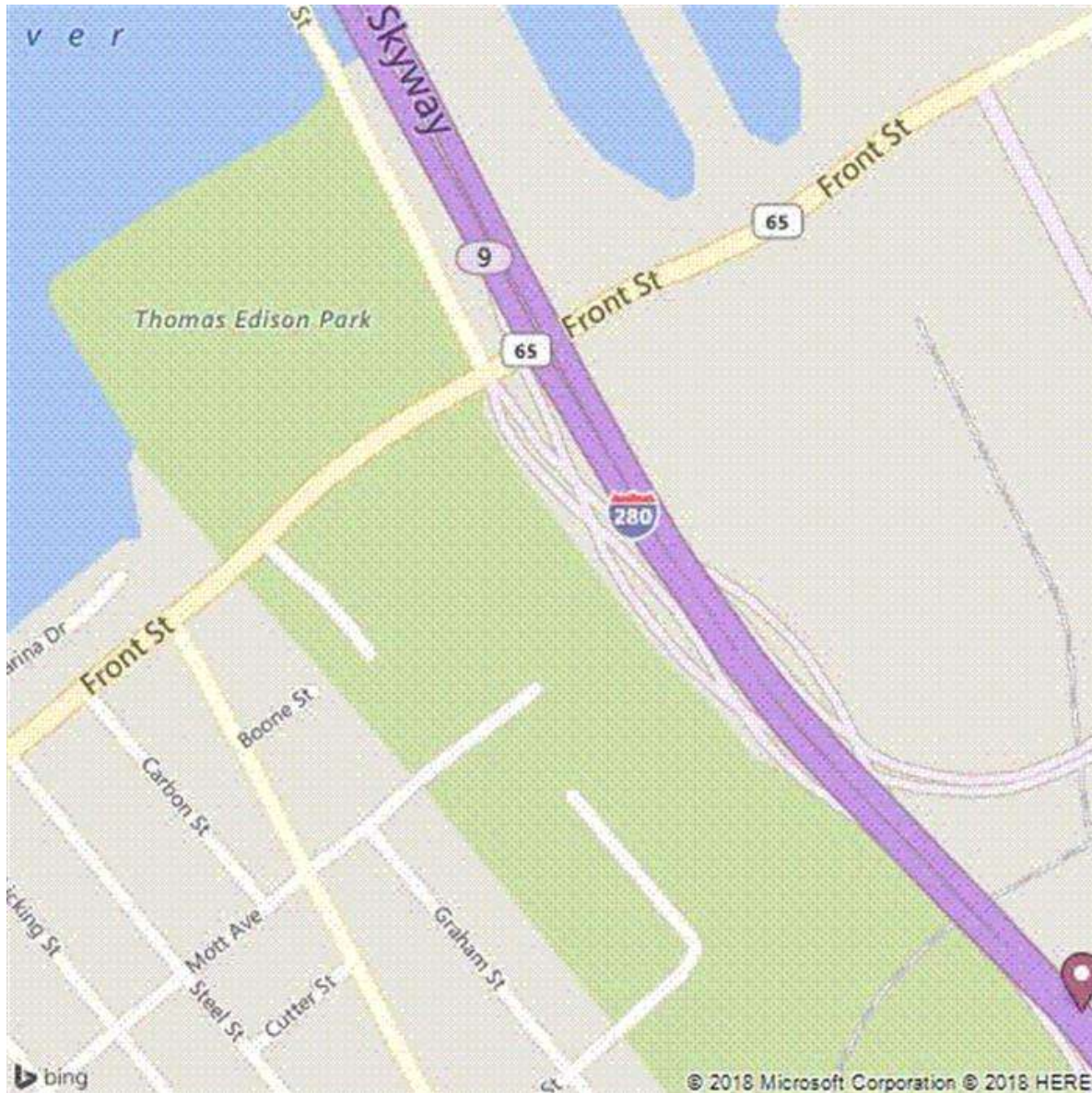
Sufficiency Rating: 81.0

Date Built: 6/1/2007

District: 02 Place Code (FIPS): TOLEDO

IR-280 over NSRR, RAMP Z, FRONT ST

Type of Service on: HIGHWAY



LOCATION MAP #1

Region:

State: 395

County: 48

Facility Carried: IR-280

Facility Intersected: NSRR, RAMP Z, FRONT ST

Location: 2.2B APPR SPAN TO VGCS

Description: Southbound South Approach Location Map

2017 LUC-00280-0283_L (SB SOUTH APPROACH) ROUTINE INSPECTION REPORT

GENERAL ELEVATION PHOTOS

Structure File Number: 4805836

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CONTINUOUS

Sufficiency Rating: 81.0

Date Built: 6/1/2007

District: 02 Place Code (FIPS): TOLEDO

IR-280 over NSRR, RAMP Z, FRONT ST

Type of Service on: HIGHWAY



Photo 1

Southbound South Approach looking
North

Unit of Measure: ENGLISH
Structure File Number: 4805836
Sufficiency Rating: 81.0

Bridge Inventory and Appraisal
Inventory Bridge Number: LUC 00280 02.830 L
1 NSRR, RAMP Z, FRONT ST

Report Date: 09/17/2017
BR. TYPE: 1 - CONCRETE/3 - BOX BEAM/2 - CONTINUOUS
Date of Last Inventory Update: 03/03/2018

(2) District: 02		(3) County: 48 - LUCAS		(9) Location: 2.2B APPR SPAN TO VGCS		(7) Facility Carried: IR-280	
(4) FIPS Code: 77000 - TOLEDO				(208) Route On Bridge: 41 - Municipal		(207) Route Under Bridge: 10 - State (ODOT) (Toll	
(102) Direction of Traffic: 1 - 1-way traffic		(216) Temporary:		(110) Truck Network: 1		(101) Parallel: L	
				(42A) Type Serv (On): 1 - Highway		(42B) Type Serv (Under): 4 - Highway - railroad	
Inventory Route Data							
(5A) Route On/Under: 1 - Route carried "on" the (5B) Hwy Sys: 1 - Interstate Highway				(45) Main Spans Number: 25		Type: 1 - CONCRETE/3 - BOX BEAM/2 - CONTINUOUS	
(5D) Route No: 00280 (5E) Dir: 3 - South (5C) Des: 1 - Mainline				(46) Approach Spans Number: 0		Type: N - NONE/N - NONE/N - NONE	
(6) Feature Intersected: NSRR, RAMP Z, FRONT ST				(307) Total Spans: 0		(48) Max Span: 150 Ft (49) Overall Leng: 3352 Ft	
(3) County: LUC (200) Mileage: 02.830 (201) Special Desig: L (209)Mile Marker: 9.463				Substructure:		Foundation and Scour Information:	
(29) Avg. Daily Traffic (ADT): 25,119 (30) ADT Year: 2015				Abut-Rear (532) Matl: 2 - Concrete		(531) Type: 8 - Pedestal (533) Fnd: 3 - Drilled Shafts	
(235) Truck Traf: 5,425 (210) Corridor: Y (104) NHS: 1- NHS BRIDGE				Abut-Fwd (527) Matl: N - None		(526) Type: N - None (528) Fnd: N - None (Such as most Culverts)	
(26) Functional Class: 11 - Urban - Principal (100) Strahnt: 0 - NOT STRAHNET				Pier-Pred (535) Matl: 2 - Concrete		(534) Type: 4 - Open Column (536) Fnd: 3 - Drilled Shafts	
				Pier-Other (538) Matl: 2 - Concrete		(537) Type: 3 - Cantilever (Tee) (539) Fnd: N - None (Such as most Culverts)	
				Pier-Other (541) Matl: N - None		(540) Type: N - None (542) Fnd: N - None (Such as most Culverts)	
Intersected Route Data							
(370A) Record Type: 2 - ROUTE 2 (370B) Hwy Sys: 3 - State Highway							
(370D) Route No: 00065 (370E) Dir: 3 - (370C) Des: 7 - Ramp or Wye							
(373) Feature Intersected: SB S APPROACH SPAN							
(3) County: LUC (371) Mile Marker: (387) Special Desig:							
(379) Avg. Daily Traffic (ADT): 57,070 (380) ADT Year: 2010							
(381) Truck Traf: 9,610 (384) Corridor: Y (378) NHS: N - NHS BRG EXCLUDES							
(375) Functional Class: 02 - Rural - Principal (386) Strahnt: 1 - Strahnet Interstate Bridges							
Clearance On the Bridge				Clearance Under the Bridge			
Min. Hriz on Bridge: (335) NC: 0 Ft (47) CARD: 56 Ft				Min. Horiz Under Clear: (326) NC: 0 Ft (325) CARD: 26 Ft			
(53) Prac Max Vert On Brg: 99.99 Ft				(328) Prac Max Vrt Under Clear: 22.917 Ft			
Min Vrt Clr On Brg: (336) NC: 99.99 Ft (10) CARD: 99.99 Ft				Min. Vert Under Clear: (327) NC: 22.917 Ft (54) CARD: H 22.917 Ft			
Min Latl Clr: (338) Right NC: 10 Ft (337) Right CARD: 0 Ft				Min Lat Under Clear: (329) Right NC: 6 Ft (55) Right CARD: H 0 Ft			
(340) Left NC: 10 Ft (339) Left CARD: 0 Ft				(330) Left NC: 4 Ft (56) Left CARD: 0 Ft			
(39) Vrt Clr Lft: 0 Ft							
Structure Information				Load Rating Information		(71-72) Appraisal	
(19) Bypass Length: 10 Miles				(31) Design Load: 9 - HS25 or greater		(71) Waterway Adequacy: N	
(16) Latitude: 41.6522656888011 (17) Longitude: -83.5036858480226				(64) Opr Rat Fact: 2.300 (700) LD: 2 - HS20 Loading		(72) Approach Alignment: 9	
(20) Toll: 3 - On Free Road, the structure is toll (106) Major Rehabilitation:				(66) Inv Rat Fact: 1.250 (702) LD: 2 - HS20 Loading		(67) Calc Str Appraisal: 6 - Equal to present minimum	
(27) Date Built: 2007 Major Reconstruction Date:				(734) Ohio Percent Legal 150		(68) Calc Deck Geometry: 6 - Equal to present minimum	
(28A) No. Lanes On: 3 (28B) No. Lanes Under: 2				(704) Year of Rating: 7/1/2011		(69) Calc Underclearance: 3 - Intolerable - high priority	
(301) Horiz Curve: 16.17 (34) Skew: 0 Deg				(63) Analysis: 6 - Load Factor Rating (LFR) reported by RF using HS20			
(32) App. Rdw Width: 56 Ft (51) Brg. Rdw Width: 56 Ft				(708) Rate Soft: 5 - Finite Element (FE) Program			
(52) Deck Width: 58.833 Ft Deck Area: 196737.55				(707) PE# 0			
(406) Median Type: 2 - RAISED MEDIAN/4 - 42" DEFLECTOR TYPE (NEW JERSEY SHAPE)/N -							
(33) Bridge median: 1 - Open median							
Sidewalks: (50A) Left: 0 Ft (50B) Right: 0 Ft							
Type Curb or Sidewalk:							
(425) Left Matl: N - None (426) Type: N - None or N/A (RR, Pedestrian,							
(427) Right Matl: N - None (428) Type: N - None or N/A (RR, Pedestrian,							
(412) Flared: Y (408) Composite: N - Non-composite							
(407) Railing: 2 - Reinforced Concrete and Steel							
(409) Deck Drainage: 4 - Inlets with drain pipes							
(107) Deck Type: 0 - Other							
Deck Protection: (108B) External: N - Not Applicable (only for bridges for no decks)							
(108C) Internal: 1 - Epoxy Coated Reinforcing							
(108A) Wearing Surface: 2 - Integral Concrete (Monolithic) - Not an Overlay							
(420) Thickness: 1.0 in (419) Date of Wearing Surface: 06/06/2007							
(547) Slope Protection: 2 - Stone (No. 1 Aggregate)							
				Approach Information			
				(401) Approach Guardrail: 7 - Concrete Deflector Parapet			
				(403) Approach Pavement: 1 - Concrete		(402) Grade: 1 - Good	
				Culvert Information			
				(575) Culvert Type: N - Not a Culvert or Rigid Frame		(578) Length: 0 Ft	
				(580) Depth of Fill: 0 Ft		(582) Headwalls: N - None or Not Applicable (Not a	
				General Information			
				(475) Main Member: 9 - Segmental Box Girder		(477) Moment Plate: N - No Moment Plates	
				(414) Expansion Joint: A - MODULAR//			
				(453) Bearing Devices: C - ELASTOMERIC (LAMINATED)/A - SLIDING (OTHER)/			
				(38) Navigation: N - Not Applicable - No waterway (39) Vert Clr: 0 Ft		(40) Horiz Clear: 0 Ft	
				(92C) Spec Insp: N Freq: 0		(93C) Special Inspection Date:	
				(92A) Fracture Critical Insp: N Freq:		(93A) Special Inspection Date:	
				(474) Long Member: N - Not Applicable (i.e. Culvert, Beam, Slab,		(468) Hinges: N - Not Applicable (structures with no hinges)	
				(486) Structural Steel Memb: N - None		(465) Framing: N - None or Not Applicable	
						(407) Railing: 2 - Reinforced Concrete and Steel	
						(482) Paint: N - None or Not Applicable	
				(203) Bridge Dedicated MAUMEE RIVER CROSSING			

Unit of Measure: ENGLISH
 Structure File Number: 4805836
 Sufficiency Rating: 81.0

Bridge Inventory and Appraisal
 Inventory Bridge Number: LUC 00280 02.830 L
 1 NSRR, RAMP Z, FRONT ST

Report Date: 09/17/2017
 BR. TYPE: 1 - CONCRETE/3 - BOX BEAM/2 - CONTINUOUS
 Date of Last Inventory Update: 03/03/2018

General Information (Continued)		Original Plans Information	
(37) Hist Significance: 4 - Not determinable at this time (112) NBIS: Yes (842) Hist/Designer: (827) Hist Build Year: (828) Hist Type: (98A) Border Bridge (98B) Resp: (99) SFN:		(250) Fabricator: (249) Contractor: FRU-CON (248) Ohio Original Construction Project Number: 049301 (252) Microfilm Reel: (251) Standard Drawing: Aperture Cards: (246) Orig: N (247) Repair: N (245) Fabr: N (709) Rating Score: 1 - Plan information available for load rating analysis (Default)	
Proposed Improvements		Utilities	Special Features
(114) Future ADT (On Bridge): 34865 (115) Year of Future ADT: 2038		(265) Electric Line: Y (266) Gas Line: N (269) Sanitary Sewer: N (267) Telephone Line: N (268) TV Cable: N (270) Water Line: N (271) Other Utilities: N	(283) Lighting: Y (430) Fence: N (432) Glare Screen: N (435) Splash Guard: N (459) Catwalk: N (271) Other-Feat: N (279) Signs on Bridge: Y (281) Signs Under Bridge: N (431) Fence Height: 0 Ft (433) Noise Barrier: N
Programming Info			
PID Number: PID Status: PID Date:			
Inspection Summary	Survey Items		
(58) Deck: 6 (59) Superstructure: 6 (60) Substructure: 7 (62) Culvert: N (61) Channel: N (c6) Approaches: 6 General Appraisal: 6 (41) Operational Status: A (90) Inspection Date: 09/17/2017 (91) Desig Insp Freq: 12 Months	(36A) Railings: 1 - Meets acceptable standards (36B) Transitions: 1 - Meets acceptable standards (36C) Guardrail: 1 - Meets acceptable standards (36D) Rail Ends: N - NA/safety feature is not required (92A) Fracture Critical: N (113) Scour Critical: N - Bridge not over waterway. Inspection Review Date:		
SFNs Replacing this retired bridge: - SFNs That were replaced by this bridge: - This bridge was retired and copied to: The bridge was copied from:		Insp 1st: 1 - Ohio State Transportation Department 2nd: X - None 3rd: X - None (21) Major Maint 1st: 1 - Ohio State Transportation Department 2nd: X - None 3rd: X - None (225) Routine Maint 1st: 1 - Ohio State Transportation Department 2nd: X - None 3rd: X - None	

2017 LUC-00280-0283_L (SB SOUTH APPROACH) ROUTINE INSPECTION REPORT

APPROACH INSPECTION PHOTOS

Structure File Number: 4805836

Inventory Bridge Number: LUC 00280 02.830 L

Bridge Type: 1 - CONCRETE/3 - BOX BEAM/2 -
CONTINUOUS

Sufficiency Rating: 81.0

Date Built: 6/1/2007

District: 02 Place Code (FIPS): TOLEDO

IR-280 over NSRR, RAMP Z, FRONT ST

Type of Service on: HIGHWAY



Photo 1

Large spall in the approach slab looking West



Photo 2

Transverse cracks and growing vegetation in relief joint looking West

2017 LUC-00280-0283_L (SB SOUTH APPROACH) ROUTINE INSPECTION REPORT

DECK INSPECTION

Structure File Number: 4805836

Inventory Bridge Number: LUC 00280 02.830 L

Bridge Type: 1 - CONCRETE/3 - BOX BEAM/2 -
CONTINUOUS

Sufficiency Rating: 81.0

Date Built: 6/1/2007

District: 02 Place Code (FIPS): TOLEDO

IR-280 over NSRR, RAMP Z, FRONT ST

Type of Service on: HIGHWAY

DECK

(58) NBIS Deck Summary: 6 **Recommended:** 9

c7.1 Floor/Slab (SF)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
197209	195048	2161			1.02

The Southbound South approach (LUC280-0283L) extends from Abutment 1SB (STA. 200+18.54) to Pier 26SB (STA. 233+62.50). The entire deck quantity is rated in this report. The longitudinal joint is rated in this report as per the 2016 inspection. Hairline transverse and map cracking, with efflorescent leaching in areas, was noted along the length of the longitudinal closure pour joint. See Photo 1.

The bottom of the deck slab is rated/described in detail in the Superstructure Inspection section of this report along with the subsequent photos for those defects.

Numerous transverse closure pour joints in the top flange/deck displayed area of cracking with heavy efflorescence over the length of the bridge.

Areas of moderate transverse and map cracking (0.013" to 0.025") along the length of the bridge were observed. See Photo 2. Numerous lift hole and deck patches with spalls, hairline cracks and discoloration around perimeter were noted along the length of the bridge. See Photos 3 through 5. These patches and cracks appeared to be reflective and were present in the wearing surface.

A depression of 0.25" was observed at multiple locations on the deck. See Photo 6. Holes were observed in West lane between Spans 18 SB and 19SB. See Photo 7.

For a detailed layout and description of the defects found during the inspection, refer to the asset file section for sketches.

c7.2 Edge of Floor/Slab (LF)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
	0	0			

c8. Wearing Surface (SF)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
187712	187212	500			1.00

Areas of moderate transverse and map cracking (0.013" to 0.025") along the length of the bridge were observed. See Photos 1 and 2. Numerous lift hole and deck patches with spalls and hairline cracks and discoloration around perimeter were noted along the length of the structure. See Photos 3 through 5.

A depression of 0.25" was observed at multiple locations on the deck. See Photo 6. Holes were observed in West lane between Spans 18SB and 19SB. See Photo 7.

For a detailed layout and description of the defects found during the inspection, refer to the asset file section for sketches.

c10. Median (LF)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
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2017 LUC-00280-0283_L (SB SOUTH APPROACH) ROUTINE INSPECTION REPORT

DECK INSPECTION

Structure File Number: 4805836

Inventory Bridge Number: LUC 00280 02.830 L

Bridge Type: 1 - CONCRETE/3 - BOX BEAM/2 -
CONTINUOUS

Sufficiency Rating: 81.0

Date Built: 6/1/2007

District: 02 Place Code (FIPS): TOLEDO

IR-280 over NSRR, RAMP Z, FRONT ST

Type of Service on: HIGHWAY

DECK

0

0

c11. Railing (LF)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
6166	0	6136	30		2.03

The East and West parapets run from Abutment 1SB (STA. 200+18.54) to 26SB (STA. 23362.50). The parapets for Ramp Z bridge (Pier 1Z to Pier 5Z = 522') were included with the ramp report, therefore subtracted from this quantity.

Typical areas of hairline vertical and map cracking were noted along the length of the concrete parapet on both the sides of the roadway. See Photo 8. Numerous areas of cracks had efflorescence, rust stains and/or discoloration/leaching.

A few areas of minor spalls/gouges were noted in Spans 5SB, 12SB and 24SB. See Photos 9 and 10.

The steel railing exhibited a few areas of deterioration and heavy rust with section loss along the length of the bridge. See Photos 11 and 12.

c12. Drainage (EA)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
30	0		30		3.00

A majority of the scuppers on the deck appeared to be partially or fully filled with debris and not serving their intended function. Some of the scuppers had vegetation growing. See Photo 13.

The drainage caps on the face of the pier end segments were leaking on a majority of the scupper locations. Varying levels of rust and efflorescence were noted at these locations. See Photo 14.

Drainage pipes within the interior of the box segments at Piers 10SB, 11SB and 17SB exhibited leakage with the rust staining. See Photo 15.

For a detailed layout and description of defects found during the inspection, refer to the asset file section of the sketches.

c13. Expansion Joint (LF)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
584	292	292			1.60

All the expansion joints over the length of the bridge were either partially or fully filled over the entire width of the roadway with vegetation growing along the joints at some locations. See Photo 16.

2017 LUC-00280-0283_L (SB SOUTH APPROACH) ROUTINE INSPECTION REPORT

DECK INSPECTION PHOTOS

Structure File Number: 4805836

Inventory Bridge Number: LUC 00280 02.830 L

Bridge Type: 1 - CONCRETE/3 - BOX BEAM/2 - CONTINUOUS

Sufficiency Rating: 81.0

Date Built: 6/1/2007

District: 02 Place Code (FIPS): TOLEDO

IR-280 over NSRR, RAMP Z, FRONT ST

Type of Service on: HIGHWAY



Photo 1 Longitudinal cracks in the longitudinal joint between Spans 21SB and 22SB looking South



Photo 2 Transverse cracks in the shoulder between Spans 22SB and 23SB



Photo 3 Typical concrete patches in the traffic lane between Spans 24SB and 25SB



Photo 4 Concrete patch with spalls and discoloration around perimeter between Spans 24SB and 25SB



Photo 5 Lift hole patch with spall between Spans 24SB and 25SB



Photo 6 0.25" depression in the shoulder between Spans 24SB and 25SB

2017 LUC-00280-0283_L (SB SOUTH APPROACH) ROUTINE INSPECTION REPORT

DECK INSPECTION PHOTOS

Structure File Number: 4805836

Inventory Bridge Number: LUC 00280 02.830 L

Bridge Type: 1 - CONCRETE/3 - BOX BEAM/2 -
CONTINUOUS

Sufficiency Rating: 81.0

Date Built: 6/1/2007

District: 02 Place Code (FIPS): TOLEDO

IR-280 over NSRR, RAMP Z, FRONT ST

Type of Service on: HIGHWAY



Photo 7 Hole in the deck between Spans 18SB and 19SB



Photo 8 Typical vertical cracking with rust stains along the East parapet looking East



Photo 9 Spall in the parapet in Span 24SB



Photo 10 Spall beneath the steel railing in Span 5SB



Photo 11 Rust on the steel railing (5' long) in Span 25SB looking West



Photo 12 Rust and section loss on the steel railing in Span 5SB looking West

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DECK INSPECTION PHOTOS

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Date Built: 6/1/2007

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IR-280 over NSRR, RAMP Z, FRONT ST

Type of Service on: HIGHWAY



Photo 13 Fully filled scupper with vegetation growing at Pier 20SB



Photo 14 Typical rust staining and efflorescence on the edge face of the end segments



Photo 15 Interior drainage pipe at Pier 10SB



Photo 16 Expansion joint at Pier 24SB filled with debris and growing vegetation looking West

2017 LUC-00280-0283_L (SB SOUTH APPROACH) ROUTINE INSPECTION REPORT

SUPERSTRUCTURE INSPECTION

Structure File Number: 4805836

Inventory Bridge Number: LUC 00280 02.830 L

Bridge Type: 1 - CONCRETE/3 - BOX BEAM/2 - CONTINUOUS

Sufficiency Rating: 81.0

Date Built: 6/1/2007

District: 02 Place Code (FIPS): TOLEDO

IR-280 over NSRR, RAMP Z, FRONT ST

Type of Service on: HIGHWAY

SUPERSTRUCTURE

(59) NBIS Superstructure Summary: 6

Recommended: 9

c14. Alignment (EA)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
25	25				1.00

No areas of misalignment or distortion were noted.

c15.1 Beams/Girders (LF)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
3344	2844	500			1.21

Numerous delaminated or unsound patches were observed in the lift holes at the top flange/slab along the edges in the interior of the segments. A majority of these areas exhibited efflorescence over the length of the bridge. See Photos 1 and 2. At multiple locations, concrete spalls with exposed reinforcement were observed. See Photo 3. Other patches and construction joints in interior of the segments, both webs and top/bottom flanges/slabs exhibited delaminated and spalled concrete. See Photos 4 and 5. Cracks and spalls with efflorescence were observed in the base of the deviator wall at multiple locations along the bridge. See Photo 6. In Spans 5SB and 7SB, rebar was noted sticking out of the closure joints in the web. See Photo 7. In Span 22SB, a PVC was left in the web and extends the full width of the concrete. See Photo 8.

Along the exterior web and bottom flange/slab, several delaminated and spalled patches were noted along the length of the bridge. Some of the concrete spalls had exposed reinforcement. See Photos 9 through 14.

Longitudinal hairline to moderate cracking was present along both interior and exterior corner edges between the web and top flange/slab of a majority of segments. These cracks varied in length and were typically 0.005" to 0.030". See Photo 15. Additionally, hairline vertical and longitudinal cracks were present along the interior and exterior webs and bottom flange/slabs of the box segments over the length of the bridge. See Photos 16 through 19.

Voids were present in the segment construction joints, both interior and exterior, varying size and depth. Some of the voids were observed to be up to 11" deep. See Photo 20. In the Span 21SB, a 5" deep void with exposed reinforcement was observed. See Photo 21. Spalls and delaminated areas were noted throughout the interior and exterior of the segments in the pier segment closure pours and the future exterior stressing blocks located at the top of the webs and along the floor slab. See photos 22 and 23. In the Span 15SB, a spall was observed on the edge of a future floor slab PT block. See Photo 24.

Small areas of honeycombed concrete were also noted on the interior and exterior of the segments along the length of the bridge.

For a detailed layout and description of defects found during the inspection, refer to the asset file section for sketches and spreadsheets.

c16. Diaphragm/Cross Frames (EA)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
50	37	13			1.35

The interior diaphragms exhibited typical hairline to moderate vertical and map cracking ranging from 0.005" to 0.04" in width. Efflorescence was noted at some locations although these areas did not appear to be active. Additionally, several diaphragms had areas of delaminated concrete on the vertical faces. See Photos 25 and 26. At Span 25SB, the floor strut diaphragm on the North face had concrete spalls with exposed reinforcement. See Photo 27.

c26. Bearing Devices (EA)

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SUPERSTRUCTURE INSPECTION

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Sufficiency Rating: 81.0 Date Built: 6/1/2007
District: 02 Place Code (FIPS): TOLEDO IR-280 over NSRR, RAMP Z, FRONT ST Type of Service on: HIGHWAY

SUPERSTRUCTURE

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
56	55	1			1.03

The plinths of Piers 2SB, 3SB, 9SB, 13SB, 14SB, 23SB and Abutment 1SB exhibited areas of unsound, spalled or delaminated concrete with moderate to severe cracking in over 5% of the bearing area. See Photo 28. The Southeast bearing at Pier 9SB had efflorescence in the plinth and rust in the bearing plate. See Photo 29. At Pier 3SB, the Northwest bearing was shifted 4" to North and the Northeast bearing was shifted 4.5" to North. A concrete spall of 24"x4"x1" was observed in the Northwest bearing pedestal. See Photo 30. At Pier 20SB, the Northwest bearing was shifted 17" to the South and 1" to the North. See Photo 31. At Pier 26SB, the Northeast bearing was shifted 7.5" to North and 16" South while the West bearing was shifted 7.5" North. See Photo 32. Additionally, the East and West bearings were tilted 0.25" to the West.

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SUPERSTRUCTURE INSPECTION PHOTOS

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IR-280 over NSRR, RAMP Z, FRONT ST

Type of Service on: HIGHWAY



Photo 1 Rust stains from lift holes in Span 7SB



Photo 2 9" deep lift hole unfilled with rust stains in Span 4SB



Photo 3 Spall with exposed reinforcement at the expansion joint in Span 8SB looking South

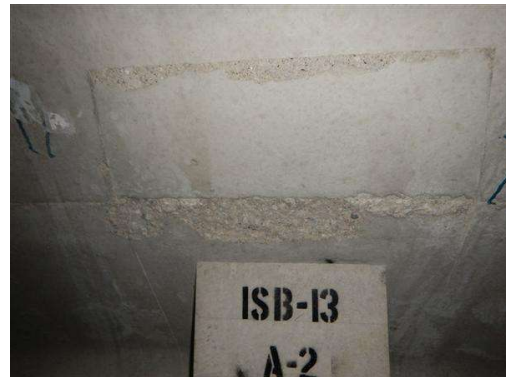


Photo 4 Spall in the top flange over PT block in Span 1SB looking Northwest

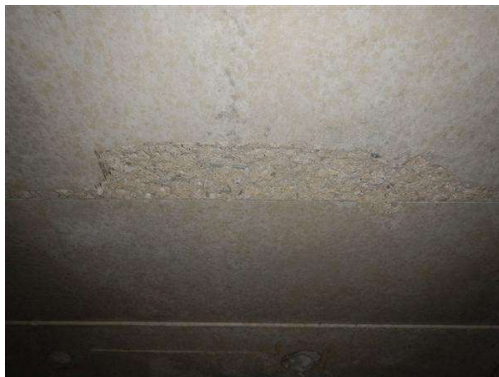


Photo 5 Spall (30"x6"x0.5") on the top flange/ceiling in Span 16SB



Photo 6 Unsound concrete patches at the base of the deviator wall in Span 9SB looking Southwest

2017 LUC-00280-0283_L (SB SOUTH APPROACH) ROUTINE INSPECTION REPORT

SUPERSTRUCTURE INSPECTION PHOTOS

Structure File Number: 4805836

Inventory Bridge Number: LUC 00280 02.830 L

Bridge Type: 1 - CONCRETE/3 - BOX BEAM/2 - CONTINUOUS

Sufficiency Rating: 81.0

Date Built: 6/1/2007

District: 02 Place Code (FIPS): TOLEDO

IR-280 over NSRR, RAMP Z, FRONT ST

Type of Service on: HIGHWAY



Photo 7 Exposed reinforcement in the closure pour joint in Span 7SB looking West



Photo 8 PVC pipe in the web in Span 22SB looking West



Photo 9 Delaminated concrete patch in the web at Pier 17SB looking West



Photo 10 Spall with exposed reinforcement in the cantilever portion of Span 25SB looking East



Photo 11 Spall in the East web between Segments 1 and 2 in Span 25SB



Photo 12 Spall in the bottom flange closure pour between Segments 1 and 2 in Span 24SB

2017 LUC-00280-0283_L (SB SOUTH APPROACH) ROUTINE INSPECTION REPORT

SUPERSTRUCTURE INSPECTION PHOTOS

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Inventory Bridge Number: LUC 00280 02.830 L

Bridge Type: 1 - CONCRETE/3 - BOX BEAM/2 - CONTINUOUS

Sufficiency Rating: 81.0

Date Built: 6/1/2007

District: 02 Place Code (FIPS): TOLEDO

IR-280 over NSRR, RAMP Z, FRONT ST

Type of Service on: HIGHWAY



Photo 13 Spall with exposed reinforcement in the bottom flange between Segments 9 and 10 in Span 17SB



Photo 14 Poor patch on the bottom flange between Segments 9 and 10 on east side of Span 14SB



Photo 15 Cracks with efflorescence in the web to top slab corner in Span 8SB looking East



Photo 16 Typical interior upper corner web cracks

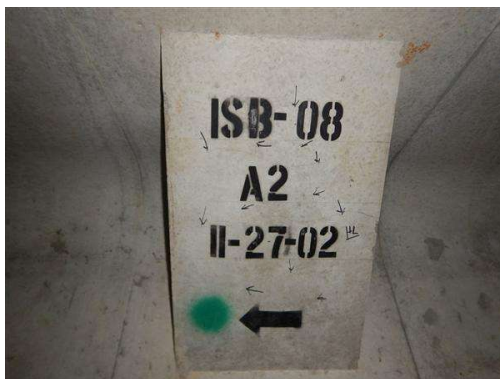


Photo 17 Typical map cracking on future PT blocks in webs



Photo 18 Typical hairline map cracking on the exterior webs along the length of the bridge

2017 LUC-00280-0283_L (SB SOUTH APPROACH) ROUTINE INSPECTION REPORT

SUPERSTRUCTURE INSPECTION PHOTOS

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Inventory Bridge Number: LUC 00280 02.830 L

Bridge Type: 1 - CONCRETE/3 - BOX BEAM/2 - CONTINUOUS

Sufficiency Rating: 81.0

Date Built: 6/1/2007

District: 02 Place Code (FIPS): TOLEDO

IR-280 over NSRR, RAMP Z, FRONT ST

Type of Service on: HIGHWAY



Photo 19 Longitudinal cracks in the West web closure pour in Span 8SB looking East



Photo 20 11" deep void in the interior construction joint in Span 14SB



Photo 21 5" deep concrete void with exposed reinforcement in Span 21SB looking West



Photo 22 Typical spalls in the future PT blocks



Photo 23 Delaminated concrete patches on future PT block in Span 2SB looking West



Photo 24 Spall on floor slab PT block in Span 15SB looking North

2017 LUC-00280-0283_L (SB SOUTH APPROACH) ROUTINE INSPECTION REPORT

SUPERSTRUCTURE INSPECTION PHOTOS

Structure File Number: 4805836

Inventory Bridge Number: LUC 00280 02.830 L

Bridge Type: 1 - CONCRETE/3 - BOX BEAM/2 - CONTINUOUS

Sufficiency Rating: 81.0

Date Built: 6/1/2007

District: 02 Place Code (FIPS): TOLEDO

IR-280 over NSRR, RAMP Z, FRONT ST

Type of Service on: HIGHWAY



Photo 25 Map cracking on the vertical face of diaphragm at Pier 2SB looking North



Photo 26 Delaminated concrete area in the vertical face of the diaphragm at Pier 20SB looking South



Photo 27 Spall with exposed reinforcement on the North face of bottom strut diaphragm in Span 25SB looking South



Photo 28 Spalls and delaminated concrete in the East bearing plinth at Pier 9SB



Photo 29 Rust on bearing plate and efflorescence in the plinth of the Southeast bearing East face at Pier 9SB



Photo 30 Spall in the West bearing pedestal at Pier 3SB

2017 LUC-00280-0283_L (SB SOUTH APPROACH) ROUTINE INSPECTION REPORT

SUPERSTRUCTURE INSPECTION PHOTOS

Structure File Number: 4805836

Inventory Bridge Number: LUC 00280 02.830 L

Bridge Type: 1 - CONCRETE/3 - BOX BEAM/2 -
CONTINUOUS

Sufficiency Rating: 81.0

Date Built: 6/1/2007

District: 02 Place Code (FIPS): TOLEDO

IR-280 over NSRR, RAMP Z, FRONT ST

Type of Service on: HIGHWAY



Photo 31	West bearing shifted 17" South at Pier 20SB
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Photo 32	East bearing at Pier 26SB shifted 7.5" North
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2017 LUC-00280-0283_L (SB SOUTH APPROACH) ROUTINE INSPECTION REPORT

SUBSTRUCTURE INSPECTION

Structure File Number: 4805836

Inventory Bridge Number: LUC 00280 02.830 L

Bridge Type: 1 - CONCRETE/3 - BOX BEAM/2 -
CONTINUOUS

Sufficiency Rating: 81.0

Date Built: 6/1/2007

District: 02 Place Code (FIPS): TOLEDO

IR-280 over NSRR, RAMP Z, FRONT ST

Type of Service on: HIGHWAY

SUBSTRUCTURE

(60) NBIS Substructure Summary: 7

Recommended: 9

c33. Abutment Walls (LF)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
59	57	2			1.05

The Abutment 1SB wall exhibited areas of minor map cracking.

For a detailed layout and description of defects found during the inspection, refer to the asset file section for sketches

c35. Abutment Columns/Bents (EA)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
1	1				1.00

The Abutment 1SB bent exhibited areas of hairline diagonal cracks.

For a detailed layout and description of defects found during the inspection, refer to the asset file section for sketches.

c34. Abutment Caps (LF)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
0	0				

c38. Pier Columns/Bents (EA)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
25	25				1.00

Typical hairline to medium (0.030") width vertical and map cracking areas were noted on the pier columns. See Photo 1. Concrete spalls at the edge of the construction joint were observed on a majority of the columns. See Photo 2. At Pier 15SB, multiple concrete popouts were observed in the column. See Photo 3. Honeycombed concrete areas were observed on a majority of the pier columns.

For a detailed layout and description of defects found during the inspection, refer to the asset file section for sketches.

c36. Pier Walls (LF)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
0.00					

c37. Pier Caps (LF)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
304	280	24			1.11

2017 LUC-00280-0283_L (SB SOUTH APPROACH) ROUTINE INSPECTION REPORT

SUBSTRUCTURE INSPECTION

Structure File Number: 4805836

Inventory Bridge Number: LUC 00280 02.830 L

Bridge Type: 1 - CONCRETE/3 - BOX BEAM/2 -
CONTINUOUS

Sufficiency Rating: 81.0

Date Built: 6/1/2007

District: 02 Place Code (FIPS): TOLEDO

IR-280 over NSRR, RAMP Z, FRONT ST

Type of Service on: HIGHWAY

SUBSTRUCTURE

Typical hairline to medium (0.025") width vertical and map cracking with efflorescence areas were noted on a majority of the pier caps. See Photo 4. At some locations bird debris was noted on the pier cap. See Photo 5. At Pier 11SB, a concrete spall (36"x48"x5") with exposed reinforcement was observed. See Photo 6. Heavy rust on drainage pipe clamp was observed at Pier 16SB. See Photo 7.

For a detailed layout and description of defects found during the inspection, refer to the asset file section for sketches.

c39. Backwalls (LF)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
	0				

c40. Wingwalls (EA)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
1	1				1.00

Insignificant cracking in the cast in place reinforced concrete wall along the length of the approach slab was noted.

c43. Slope Protection (EA)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
1	1				1.00

No notable defects were noted.

2017 LUC-00280-0283_L (SB SOUTH APPROACH) ROUTINE INSPECTION REPORT

SUBSTRUCTURE INSPECTION PHOTOS

Structure File Number: 4805836

Inventory Bridge Number: LUC 00280 02.830 L

Bridge Type: 1 - CONCRETE/3 - BOX BEAM/2 -
CONTINUOUS

Sufficiency Rating: 81.0

Date Built: 6/1/2007

District: 02 Place Code (FIPS): TOLEDO

IR-280 over NSRR, RAMP Z, FRONT ST

Type of Service on: HIGHWAY



Photo 1 Typical cracking, efflorescence and rust staining on the pier columns



Photo 2 Spall at the construction joint of the column at Pier 13SB



Photo 3 Concrete popouts at Pier 15SB



Photo 4 Typical cracking, efflorescence and rust staining on the pier caps



Photo 5 Bird debris on pier cap at Pier 18SB looking West



Photo 6 Spall (36"x48"x5") with exposed reinforcement at Pier 11SB

2017 LUC-00280-0283_L (SB SOUTH APPROACH) ROUTINE INSPECTION REPORT

SUBSTRUCTURE INSPECTION PHOTOS

Structure File Number: 4805836

Inventory Bridge Number: LUC 00280 02.830 L

Bridge Type: 1 - CONCRETE/3 - BOX BEAM/2 -
CONTINUOUS

Sufficiency Rating: 81.0

Date Built: 6/1/2007

District: 02 Place Code (FIPS): TOLEDO

IR-280 over NSRR, RAMP Z, FRONT ST

Type of Service on: HIGHWAY



Photo 7

Heavy rust on drainage pipe clamp at Pier
16SB looking South

2017 LUC-00280-0283_L (SB SOUTH APPROACH) ROUTINE INSPECTION REPORT

SIGNS/UTILITIES INSPECTION

Structure File Number: 4805836 Inventory Bridge Number: LUC 00280 02.830 L Bridge Type: 1 - CONCRETE/3 - BOX BEAM/2 - CONTINUOUS
Sufficiency Rating: 81.0 Date Built: 6/1/2007
District: 02 Place Code (FIPS): TOLEDO IR-280 over NSRR, RAMP Z, FRONT ST Type of Service on: HIGHWAY

SIGNS/UTILITIES

(41) Open, Posted or Closed: A

c55. Signs (EA)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
12	11			1	2.86

All overhead and roadway signs (5 overhead exit and information, 5 mile markers and 1/10th miles, and 1 merge symbol) attached to the top or side of the parapet were in good condition with no noticeable defects.

c56. Sign Supports (EA)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
9	9				1.00

The sign supports were in good condition except the 2 bolts at the base of the sign post in Span 23SB that have started to rust.. See Photo 1.

c57. Utilities (LF)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
6688	6668	20			1.00

In Spans 5SB, 6SB, 8SB, 9SB and 11SB, screws were missing or loose on the junction box covers in West parapet. See Photo 2. In Span 23SB, the ground wire was disconnected at the base of the sign support. See Photo 3. Paint failure or defect to galvanized coating system of light poles on West parapet was commonly observed. See Photo 4.

In Span 3, conduits were separated/broken in the interior electrical system. See Photo 5. Electrical conduit brackets were broken in Spans 3SB and 8SB. See Photo 6. In Span 13SB, a bolt was missing from electrical conduit strut. See Photo 7. An electrical conduit strut was loose in Span 25SB. See Photo 8. Loose grates were observed at multiple column access hole locations. See Photo 9. At Pier 25SB, the junction box was loose and the mounting tab was broken. See Photo 10.

2017 LUC-00280-0283_L (SB SOUTH APPROACH) ROUTINE INSPECTION REPORT

SIGNS/UTILITIES INSPECTION PHOTOS

Structure File Number: 4805836

Inventory Bridge Number: LUC 00280 02.830 L

Bridge Type: 1 - CONCRETE/3 - BOX BEAM/2 - CONTINUOUS

Sufficiency Rating: 81.0

Date Built: 6/1/2007

District: 02 Place Code (FIPS): TOLEDO

IR-280 over NSRR, RAMP Z, FRONT ST

Type of Service on: HIGHWAY



Photo 1 Rusted bolts on the base of the West sign post in Span 23SB looking West



Photo 2 Missing and loose screws in the electrical panel in Span 5SB



Photo 3 Disconnected grounding wire in Span 23SB



Photo 4 Paint or coating failure on electrical pole on west parapet in Span 8SB looking West

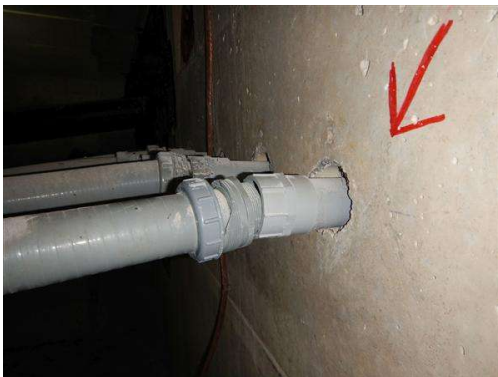


Photo 5 Broken or separated electrical conduits in Span 3SB



Photo 6 Broken electrical conduit bracket in Span 8SB looking South

2017 LUC-00280-0283_L (SB SOUTH APPROACH) ROUTINE INSPECTION REPORT

SIGNS/UTILITIES INSPECTION PHOTOS

Structure File Number: 4805836

Inventory Bridge Number: LUC 00280 02.830 L

Bridge Type: 1 - CONCRETE/3 - BOX BEAM/2 - CONTINUOUS

Sufficiency Rating: 81.0

Date Built: 6/1/2007

District: 02 Place Code (FIPS): TOLEDO

IR-280 over NSRR, RAMP Z, FRONT ST

Type of Service on: HIGHWAY



Photo 7 Missing bolt from electrical conduit strut in Span 13SB looking North



Photo 8 Loose electrical conduit strut in Span 25SB looking North



Photo 9 Loose grate at Pier 17SB



Photo 10 Loose junction box and broken mounting tab in Span 25SB looking North

2017 LUC-00280-0283_L (SB SOUTH APPROACH) ROUTINE INSPECTION REPORT

SUPPLEMENTAL INSPECTION

Structure File Number: 4805836

Inventory Bridge Number: LUC 00280 02.830 L

Bridge Type: 1 - CONCRETE/3 - BOX BEAM/2 -
CONTINUOUS

Sufficiency Rating: 81.0

Date Built: 6/1/2007

District: 02 Place Code (FIPS): TOLEDO

IR-280 over NSRR, RAMP Z, FRONT ST

Type of Service on: HIGHWAY

SUPPLEMENTAL

c63. Post Tensioning End Cap (EA)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
428	396	20	12		1.46

Numerous PT end cap locations were noted to have small void areas within the grout in the cap. These areas were determined and verified by gently tapping on the plastic end caps with a hammer. A few caps were observed to have loose/missing bolts connecting the cap with the duct at the diaphragm. See Photos 1 and 2.

For a detailed layout and description of defects found during the inspection, refer to the asset file section for sketches and spreadsheets.

It is recommended that a form of NDT or ultrasound be utilized to determine the exact extent and accuracy of the voids. With the caps being covered with waterproofing material and being plastic, hollow areas within the cap were difficult to detect with certainty. In addition, the brittle nature of the material could lead to cracking of the end caps if struck too hard with a hammer.

c64. Post Tensioning Segmental Box Internal (EA)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
370	0	370			2.00

Numerous delaminated or unsound patches were observed in the lift holes at the top flange/slab along the edges of the interior segments. A majority of these areas exhibited efflorescence and rust staining as well as a few areas where the holes/patches were not completely filled. See Photos 1 and 2 in the Superstructure section. At multiple locations, concrete spalls with exposed reinforcement were observed. See Photo 3 in the Superstructure section. Other patches and construction joints in interior of the segments, both webs and top/bottom flanges/slabs exhibited delaminated and spalled concrete. See photos 4 and 5 in the Superstructure section. At multiple locations, cracks and spalls with efflorescence were observed in the base of the deviator wall. See Photo 6 in the Superstructure section. In Spans 5SB and 7SB, rebar sticking out of the closure pour joints was observed in the web. See Photo 7 in the Superstructure section. In Span 22SB, a PVC pipe was left in the web and extends full width of the concrete. See Photo 8 in the Superstructure section.

Longitudinal hairline to moderate cracking was present along both interior corner edges between the web and top flange/slab of a majority of segments. These cracks varied in length and were typically 0.005" to 0.030" in width. See Photo 15 in the Superstructure section. Additionally, hairline vertical and longitudinal cracks were present along the interior webs and bottom flange/slabs of the box segments over the length of the bridge. See Photos 16 and 17 in the Superstructure section.

Voids were present in the segment construction joints, varying size and depth. Some of the voids were observed to be up to 11" deep. See Photo 20 in the Superstructure section. In the Span 21SB, a 5" deep void with exposed reinforcement was observed. See Photo 21 in the Superstructure section. Spalls and delaminated areas were noted throughout the interior of the segments in the pier segment closure pours and the future exterior stressing blocks located at the top of the webs and along the floor slab. See Photos 22 and 23 in the Superstructure section. In the Span 15SB, a spall was noted on the edge of future floor slab future PT block. See Photo 24 in the Superstructure section.

The interior diaphragms exhibited typical hairline to moderate vertical and map cracking ranging from 0.005" to 0.04" in width. Efflorescence was noted at some locations although these areas did not appear to be active. Additionally, several diaphragms had areas of delaminated concrete on the vertical faces. See Photos 25 and 26 in the Superstructure section. In Span 25SB, the floor strut diaphragm on the North face had concrete spalls with exposed reinforcement. See Photo 27 in the Superstructure section.

Small areas of honeycombed concrete were also noted on the interior and exterior of the segments along the length of the bridge.

For a detailed layout and description of defects found during the inspection, refer to the asset file section for sketches and spreadsheets.

c65. Post Tensioning Segmental Box External (EA)

2017 LUC-00280-0283_L (SB SOUTH APPROACH) ROUTINE INSPECTION REPORT

SUPPLEMENTAL INSPECTION

Structure File Number: 4805836

Inventory Bridge Number: LUC 00280 02.830 L

Bridge Type: 1 - CONCRETE/3 - BOX BEAM/2 -
CONTINUOUS

Sufficiency Rating: 81.0

Date Built: 6/1/2007

District: 02 Place Code (FIPS): TOLEDO

IR-280 over NSRR, RAMP Z, FRONT ST

Type of Service on: HIGHWAY

SUPPLEMENTAL

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
370	270	100			1.36

Along the exterior, web and bottom flange/slab, several delaminated and spalled patches were noted along the length of the bridge. Some of the concrete spalls had exposed reinforcement. See Photos 9 through 14 in Superstructure section.

Additional hairline vertical and longitudinal cracks were present along the exterior webs and bottom flange/slabs of the box segments over the length of the bridge. See Photos 18 and 19 in the Superstructure section.

Voids were present in the segment closure joints, varying size and depth. Small areas of honeycombed concrete were also noted on the exterior segments along the length of the bridge.

For a detailed layout and description of defects found during the inspection, refer to the asset file section for sketches and spreadsheets.

c66. Post Tensioning External Tendon (EA)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
214	214				1.00

The external tendons were in good condition with minimal notable defects. A few areas of rusting were observed on the steel PT ducts at the diaphragm connections and clamps connecting the PTFE sheathing to the steel ducts. See Photo 3.

A couple of the exterior tendon couplers connecting sections of the sheathing together appeared misaligned slightly over the length of the bridge. See Photo 4. PT duct splices appeared to be soft, cracking and bulging at multiple locations. See Photo 5.

At Pier 23SB, the plastic ducts on the T2, T3, & T4 PT tendons was observed to be melted. See Photo 6

Numerous future prestressing ducts in the diaphragm exhibited moderate to heavy rust with the stain leaching in some locations. See Photo 7.

As noted above in the PT end cap section, it is recommended that a form of NDT or ultrasound be utilized to determine the exact extent and accuracy of the voids.

For a detailed layout and description of defects found during the inspection, refer to the asset file section for sketches and spreadsheets.

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SUPPLEMENTAL INSPECTION PHOTOS

Structure File Number: 4805836

Inventory Bridge Number: LUC 00280 02.830 L

Bridge Type: 1 - CONCRETE/3 - BOX BEAM/2 - CONTINUOUS

Sufficiency Rating: 81.0

Date Built: 6/1/2007

District: 02 Place Code (FIPS): TOLEDO

IR-280 over NSRR, RAMP Z, FRONT ST

Type of Service on: HIGHWAY

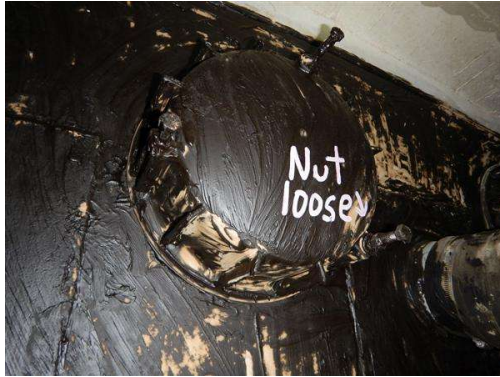


Photo 1 Loose bolt on PT anchor head at Pier 12SB looking North



Photo 2 Voids and rust around the perimeter of the PT anchor cap at Pier 6SB looking South



Photo 3 Rust on PT duct at Pier 3SB looking North



Photo 4 PT cable T3 not aligned at Pier 18SB looking East



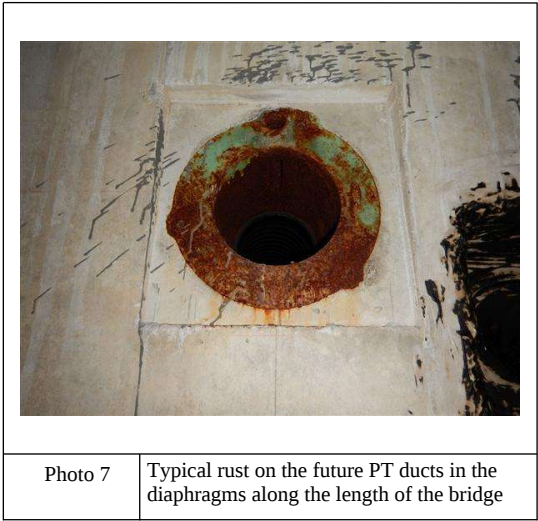
Photo 5 Soft PT duct splices at Pier 7SB looking South



Photo 6 Plastic on PT duct appeared melted in Span 23SB

2017 LUC-00280-0283_L (SB SOUTH APPROACH) ROUTINE INSPECTION REPORT
SUPPLEMENTAL INSPECTION PHOTOS

Structure File Number: 4805836 Inventory Bridge Number: LUC 00280 02.830 L Bridge Type: 1 - CONCRETE/3 - BOX BEAM/2 - CONTINUOUS
Sufficiency Rating: 81.0 Date Built: 6/1/2007
District: 02 Place Code (FIPS): TOLEDO IR-280 over NSRR, RAMP Z, FRONT ST Type of Service on: HIGHWAY



2017 LUC-00280-0283_L (SB SOUTH APPROACH) ROUTINE INSPECTION REPORT

CRITICAL FINDINGS

Structure File Number: 4805836

Inventory Bridge Number: LUC 00280 02.830 L

Bridge Type: 1 - CONCRETE/3 - BOX BEAM/2 -
CONTINUOUS

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IR-280 over NSRR, RAMP Z, FRONT ST

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2017 LUC-00280-0283_L (SB SOUTH APPROACH) ROUTINE INSPECTION REPORT REVIEW

Structure File Number: 4805836

Inventory Bridge Number: LUC 00280 02.830 L

Bridge Type: 1 - CONCRETE/3 - BOX BEAM/2 -
CONTINUOUS

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