

(008) BRIDGE ID: 40100078/0400
(005) ROUTE: RICH. RD I-26
(006) CROSSING: CN AND L RAILROAD

(009) LOCATION: 3/4 MI NW OF DOI A
(028) FUNCTIONAL CLASS: 1

GENERAL BRIDGE DATA

	EXISTING	REVISED		EXISTING SUP-SUB	REVISED SUP-SUB
(027) YEAR BUILT	1953		(043) MAIN ORIGINAL (A)	1 04 1	
(106) YEAR RECON	1986		MAIN RECONST (B)	3 02 1	
(031) DESIGN LOAD	5		(044) APPR ORIGINAL (A)	0 00 0	
(032) APPR RDWAY	124		APPR RECONST (B)	0 00 0	
(033) BRIDGE MEDIAN	2		(107) DECK STRUCT	1	
(034) SKEW	0		(108) WEAR SURF	8 8 8	
(035) FLARED	0		(045) # MAIN SPANS	3	
(06A) RAILINGS	1		(046) # APPR SPANS	0	
(308) TRANSITIONS	1		(048) MAX SPAN LGTH	56	
(30C) APPR GUARD	1		(308) APPR SPAN LGTH	0	
(30D) APPR GUARD END	1		(049) STRUCT LENGTH	155	
(041) TRAFFIC STATUS	A		(107) HISTORY	4	

GEOMETRIC DATA

	EXISTING	REVISED		EXISTING	REVISED
(038) NAVIGATION CONT	N		(042) TYPE SERV. (A)-(B)	1 2	
(039) NAV VERT CLEAR	0		(028) LANES, CM(A) IN(B)	3 0	
(040) NAV HORZ CLEAR	0		(47A) HORZ CLEAR RIGHT	33	
(111) NAV PIER PROT			(47B) HORZ CLEAR LEFT	0	
(10A) GREAT MIN OVER	FT IN	FT IN	(47UA) HORZ CLEAR RIGHT	0	
UNDERCLEARANCES	99 99		(47UB) HORZ CLEAR LEFT	0	
(10B) GREAT MIN RIGHT	21 1		(50B) SIDEWALK RIGHT	0	
(10C) GREAT MIN LEFT	0 0		(50A) SIDEWALK LEFT	0	
(54A) VERT CLEAR REF	R		(061) CURB TO CURB	112	
(54B) VERT CLEAR RIGHT	21 1		(052) DECK OUT-OUT	124	
(54C) VERT CLEAR LEFT	0 0		(053) VERT CLEARANCE	FT IN	FT IN
(55A) LAT CLEAR REF	R		ABOVE DECK	99 99	
(55B) LAT CLEAR RIGHT	12 7				
(55C) LAT CLEAR LEFT	0				

CONDITION RATINGS

	EXISTING	REVISED		EXISTING	REVISED
(063) OPERATING RATING METHOD	1		(58) DECK	7	
(064) OPERATING RATING	69		(59) SUPER STR	4	
(065) INVENTORY RATING METHOD	1		(60) SUB STR	7	
(066) INVENTORY RATING	41		(061) CHANNEL	N	
(319) LAST PAINT DATE			(062) CULV RET	N	

CRITICAL INSPECTION DATA

	EXISTING	REVISED
(050) INSP DATE	01/2012	12/2015
(051) INSP FREQ	24	
(113) SCQR CRITICAL	N	
INTERVAL MTH YR		
(93A) FRACTURE	N	
(93B) UNDERWATER	N	
(93C) SPECIAL	N	

APPRAISAL RATINGS

	EXISTING	REVISED
(037) STRUCTURE	4	GEN
(038) DECK GEOM	8	GEN
(039) UNDERCLEAR	5	GEN
(070) BRIDGE POST	5	GEN
(071) WATER ADEQ	N	
(072) APPR RDWAY	8	
(111) LOAD RATING ID	11/15/1976	

2823

Bridge Element Group Textual Data

Bridge ID: 40-1-00026-0-04-00

(16) Dec-2015

Abutments and/or Headwalls:

Water seeping through construction joint at bottom of headwall and top of cap, East end. Hairline cracks w/eff. in headwalls. Minor spalls w/rust in wingwalls, both ends. Washing under cap and on fill, East end, right side with steel piles exposed. (see photo).

Bents and/or Piers:

(7) Hairline cracks in caps, (see sketch sheet)

Bearings:

Minor rust on bearings. Several elastomeric pads are starting to bulge out past saddles at bent 3. Several nuts in shim plates on the continuous saddles do not have full nut at bents 2 and 3. Several nuts on anchor bolts not tight (see sketch sheet).

Girders/Floor Beams/Stringers and/or Beams:

(4) Flexure cracks approximately mid-span on all beams. Continuous saddles have been installed at bents 2 and 3 beams 1-10 (see sketch sheet). Saddle connections at bent 2, beams 4-6 are not pulled up tight.

Truss Members:

Expansion Joints:

Expansion material pulled loose and/or missing. Joints are impacted with debris. Joints are partially covered with asphalt overlay.

Decks and/or Slabs:

(7) Hairline cracks w/eff. on underside of deck. Asphalt overlay on deck above beams 1-13, concrete above beams 14-20.

Curbs:

Approach curb broken, West end, right side, bent 1.

Bridge Railing/Parapets and/or Median Barriers:

Bridge and approach rail in place. Hairline cracks w/eff. in parapet walls. Minor collision damage to parapet wall in EBL.

Paint System(s):

Ther-o-seal peeling from caps.

Waterway and Scour:

Fender System:

Roadway Alignment:

Minor washing under approach slab and curb on West end right side causing minor settlement of slab.

Traffic Signs:

2 bridge end signs in place

Encroachments:

2-2" metal pipes on right side, attached to side of deck. 1-2" metal pipe on left side, attached to bottom of deck

Miscellaneous Notes:

Performed by Dist. 2 bridge inspection

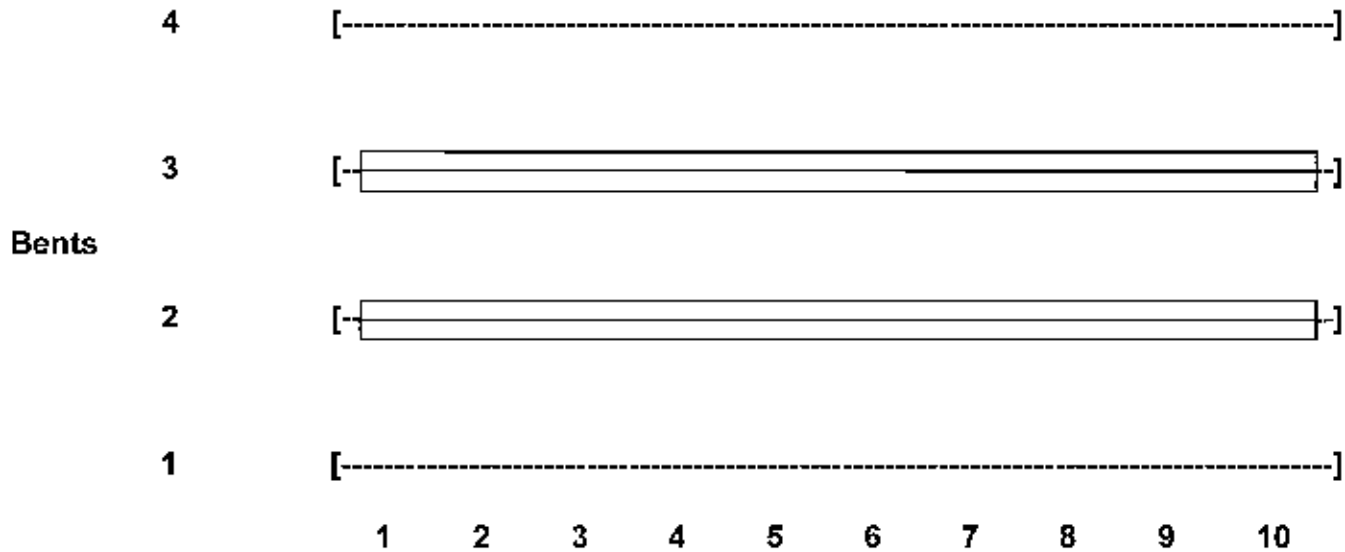
SCDOT BRIDGE INSPECTION SKETCH SHEET

STRUCTURE NO: 4010002600400
 ROUTE NO: I-26
 COUNTY: Richland

INSPECTION DATE: 15 Dec 2015
 CROSSING: C.N. & L. RR
 RESTRICTION: _____

North / South / East / West

Not To Scale



Bents

Beams

North / South / East / West

4010002600400

[=====] = Continuous saddles.
 Concrete beams only.

Sketch Sheet

DATE 15 Dec 2015

STRUCTURE NUMBER 4010002600400

ROAD NUMBER I-26

COUNTY Richland

CROSSING C.N. & L. RR

RESTRICTION _____

Caps

Cap bent 1 has a:

- 8' long. h/l crack between beams 1 & 3.
- 2' vert. h/l crack under beam 3.
- 2' vert. h/l crack under beam 6.
- 2' vert. h/l crack under beam 7.
- 2' long. h/l crack between beams 12 & 13.

Cap bent 2 has a:

- 2' vert. h/l crack between columns 1 & 2, East side.
- 3' vert. h/l crack above column 4, West side.

Cap bent 3 has a:

- 3' vert. h/l crack above column 1, East side.
- 3' diag. h/l crack above column 1, East side.
- 3' diag. h/l crack above column 4, West side.

Cap bent 4 has a:

- 3' long. h/l crack between beams 2 & 3.
- 3' long. h/l crack between beams 3 & 4.
- 2' long. h/l crack between beams 9 & 10.

Sketch Sheet

DATE 15 Dec 2015

STRUCTURE NUMBER 4010002600400

ROAD NUMBER I-26

COUNTY Richland

CROSSING C.N. & L. RR

RESTRICTION _____

Loose Anchor Bolt Nuts

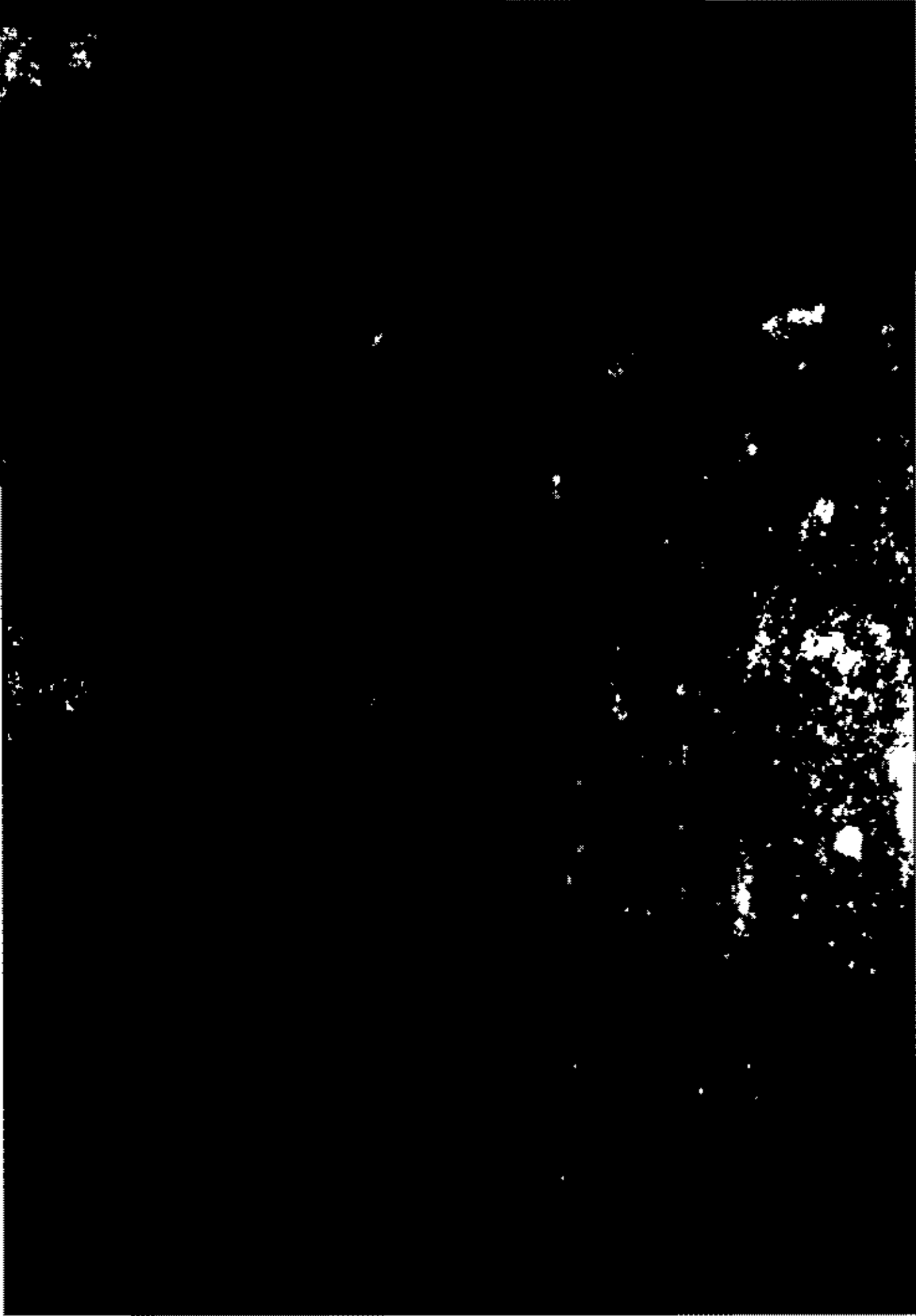
Beam	Bent	Span	
12	3	2	Right side
13	3	2	Right side
19	3	2	Right side
20	3	2	Left side
3	1	3	Left side

Loose Saddle Bolt Nuts

Beam	Bent	Span	
5	3	3	Right side

4010002600400 1-26 C.N. & L. RR 18 Dec 2013

Moderate washing under bent 4 w/steel piles exposed.



Bridge Element Level Data

Bridge ID: 40-1-00026-0-04-00

15 Dec-2015

Percent Distribution by State

<u>Element</u>	<u>Quantity</u>	<u>Environment</u>	<u>Pct1</u>	<u>Pct2</u>	<u>Pct3</u>	<u>Pct4</u>	<u>Pct5</u>
12	7260	4	0	100	0	0	0
13	13200	4	0	100	0	0	0
107	1650	4	0	100	0	0	0
110	1650	4	0	33	0	67	0
205	16	4	0	100	0	0	0
234	496	4	0	100	0	0	0
302	88	3	0	50	50	0	0
310	40	3	0	100	0	0	0
311	30	3	0	100	0	0	0
313	50	3	0	100	0	0	0
321	2	2	0	100	0	0	0
331	660	2	0	100	0	0	0