SCDOT BRIDGE INSPECTION FORM

(008) BRIDGE ID:	4010002640300	(005) ROUTE:	RICHLAND I-26
(420) ASSET NO:	8030	(006) CROSSING:	I-126
(419) RAMP NO:		(009) LOCATION:	3MI NW OF COLA
(026) FUNCTIONAL CLASS:	11	(016) LAT: 34d 1m 41s	(017) LON: 81d 6m 6s

GENERAL BRIDGE DATA

	EXISTING	REVISED		EXISTING			REVISED
(027) Year Built	1986		(042) Type Serv; On(A) Und(B)	6		1	
(106) Year Recon	0		(028) Lanes; On(A) Und(B)	2		5	
(031) Design Load	5		(107) Deck Struct		1		
(36A) Railings	1		(108) Wear Surf/Membrane/Prot	1	8	8	
(36B) Transitions	1			MAT-SUP-SUB			MAT-SUP-SUB
(36C) Appr Guard	1		(043) Main Original (A)	3	2	1	
(36D) Appr Guard End	1		Main Reconst (B)				
(037) History	4		(044) Appr Orginal (A)	0	00	0	
(319) Last Paint Date			Appr Reconst (B)				

GEOMETRIC DATA

	EXISTING	REVISED		EXISTING		REVISED	
(032) Appr Rdway	41			FT	IN	FT	IN
(033) Bridge Median	2		(053) Vert Clr Above Deck	99	99		
(034) Skew	30		(54A) Vert Clear Ref	H			
(035) Flared	0		(54B) Vert Clear Right	17	5		
(045) # Main Spans	4		(54C) Vert Clear Left	17	5		
(046) # Appr Spans	0		(10A) Great Min Clr Over/Und	99	99		
(048) Max Span Lgth	122		(10B) Great Min Right	17	7		
(308) Appr Span Lgth	0		(10C) Great Min Left	17	7		
(049) Struct Length	414						
(47A) Horz Clear Right	41		(55A) Lat Clear Ref	H			
(47B) Horz Clear Left	0		(55B) Lat Clear Right	12			
(47UA) Horz Clear Right	50		(55C) Lat Clear Left	5			
(47UB) Horz Clear Left	51						
(50B) Sidewalk Right	0		(038) Navigation Cont	N			
(50A) Sidewalk Left	0		(039) Nav Vert Clear	0			
(051) Curb to Curb	41		(040) Nav Horz Clear	0			
(052) Deck Out-Out	47		(111) Nav Pier Port				

RATINGS DATA

	EXISTING	REVISED		EXISTING		REVISED	
(58) Deck	6		(041) Traffic Status	A			
(59) Super Str	8	7	(063) Rating Method	2			
(60) Sub Str	7		(064) Operating Method	50			
(061) Channel	N		(065) Rating Method	2			
(062) Culv Ret	N		(066) Inventory Rating	36			
(071) Water Adeq	N		(411) Date Rated				
(072) Appr Rdway	8		(418) Conditions During Rating				
(113) Scour Critical	N			Freq	Mth/Year	Freq	Mth/Year
(067) Structure	7		(091, 090) Routine Insp	24	12/2017	24	12/2019
(068) Deck Geom	5		(92A, 93A) Fracture Critical	N			
(069) Underclear	5		(92B, 93B) Underwater Insp	N			
(070) Bridge Post	5		(92C, 93C) Special Insp	N			

Inspection Leader:	BOZARD JAMES B	Reviewed By:	POINTER WILLIAM D
Date:		Date:	12/17/2019

Bridge Element Group Textual Data

Bridge ID: 40-1-00026-4-03-00

17 Dec 2019

Abutments and/or Headwalls:

0.07" cracks and minor spalls between headwalls and wingwalls on both sides at bent 1. Hairline cracks in both cheek walls at bent 5. Hairline cracks in abutments, (see sketch sheet). Hairline cracks in slope protection.

Bents and/or Piers:

Hairline cracks with a minor spall in caps, (see sketch sheet).

Bearings:

Several loose and missing anchor bolt nuts, (see sketch sheet). Minor corrosion starting to form on bearings, anchor bolts, and anchor bolt nuts.

Girders/Floor Beams/Stringers and/or Beams:

Minor corrosion starting to form on ends of beams in headwall.

Truss Members:

Expansion Joints:

Expansion material pulling loose and/or missing,(see photo).

Decks and/or Slabs:

Hairline transverse and map cracking, minor abrasion, moderate spalling with rust, and delamination that has been patched on deck, overlaid coating is starting to peel. Transverse hairline cracks, several with efflorescence and a minor spall with rust span 4 right side on underside of deck at soffit.

Curbs:

Bridge Railing/Parapets and/or Median Barriers:

Bridge and approach rail in place. Hairline cracks, several with efflorescence in parapet walls.

Paint Systems:

Paint peeling and rust starting to form on beams.

Waterway and Scour:

Fender System:

Roadway Alignment:

Traffic Signs:

2ea bridge end signs on I-26. Clearance sign of 17'5" above WBL of I-26 in place. Clearance sign of 16'7" above EBL of I-126 is for structure #4010002640372.

Encroachments:

1-1" metal pipe on left side of span 1, attached to parapet wall with "U" clamps.

Miscellaneous Notes:

I-26 WBL X-I-126 M/M 107.8.

Bridge Element Level Data

17 Dec 2019

					Quantity in Each Condition State				
Element No	**Element Name/Description**	**Units**	**Env**	**Defect**	**1**	**2**	**3**	**4**	**Total Qty**
107	Steel Open Girder/Beam	feet	4	Yes					
107	Corrosion	feet	4	1000	0	12	0	0	12
107	Steel Open Girder/Beam	feet	4	Yes	2472	12	0	0	2484
12	Reinforced Concrete Deck	sq feet	4	Yes					
12	Delamination/Spall/Patched Area	sq feet	4	1080	0	2050	0	0	2050
12	Efflorescence/Rust Staining	sq feet	4	1120	0	24	0	0	24
12	Reinforced Concrete Deck	sq feet	4	Yes	17384	2074	0	0	19458
205	Reinforced Concrete Column	each	4	No	3	0	0	0	3
215	Reinforced Concrete Abutment	feet	4	Yes					
215	Cracking (RC and Other)	feet	4	1130	16	0	0	0	16
215	Reinforced Concrete Abutment	feet	4	Yes	128	0	0	0	128
234	Reinforced Concrete Pier Cap	feet	4	Yes					
234	Delamination/Spall/Patched Area	feet	4	1080	0	1	0	0	1
234	Cracking (RC and Other)	feet	4	1130	1	0	0	0	1
234	Reinforced Concrete Pier Cap	feet	4	Yes	122	1	0	0	123
301	Pourable Joint Seal	feet	3	Yes					
301	Seal Damage	feet	3	2330	0	0	0	47	47
301	Pourable Joint Seal	feet	3	Yes	47	0	0	47	94
302	Compression Joint Seal	feet	3	Yes					
302	Seal Damage	feet	3	2330	0	0	0	27	27
302	Compression Joint Seal	feet	3	Yes	67	0	0	27	94
311	Movable Bearing	each	3	Yes					
311	Corrosion	each	3	1000	0	3	0	0	3
311	Connection	each	3	1020	0	3	0	0	3
311	Movable Bearing	each	3	Yes	6	6	0	0	12
321	Reinforced Concrete Approach Slab	sq feet	2	No	2820	0	0	0	2820
331	Reinforced Concrete Bridge Railing	feet	2	Yes					
331	Delamination/Spall/Patched Area	feet	2	1080	0	8	0	0	8
331	Efflorescence/Rust Staining	feet	2	1120	0	35	0	0	35
331	Cracking (RC and Other)	feet	2	1130	105	0	0	0	105

331	Reinforced Concrete Bridge Railing	feet	2	Yes	785	43	0	0	828
515	Steel Protective Coating	sq feet	1	Yes					
515	Effectiveness (Steel Protective Coatings)	sq feet	1	3440	0	0	0	157	157
515	Steel Protective Coating	sq feet	1	Yes	32239	0	0	157	32396

Sketch Sheet

DATE **_5 Dec 2019_**

STRUCTURE NUMBER **_4010002640300_** ROAD NUMBER **_I-26_**
COUNTY **_Richland_** CROSSING **_I-126_**
RESTRICTION _____

Caps

Cap bent 5 has a 1' diag. h/l crack between beams 3 & 4.

Abutments

Abutment 1 has a:

3' vert. h/l crack between beams 2 & 3.
3' vert. h/l crack between beams 3 & 4.
3' vert. h/l crack between beams 4 & 5.
6" diag. h/l crack between beams 5 & 6.
Minor spall between beams 5 & 6.
Long. h/l cracks at construction joints.

Sketch Sheet

DATE **_5 Dec 2019_**

STRUCTURE NUMBER **_4010002640300_** ROAD NUMBER **_I-26_**
COUNTY **_Richland_** CROSSING **_I-126_**
RESTRICTION _____

Anchor Bolt Nuts

Beam 1, bent 1, span 1, missing, right side.
Beam 2, bent 1, span 1, loose, right side.
Beam 6, bent 1, span 1, loose, right side.

5 Dec 2019: Top view of bridge from East approach. (8)

5 Dec 2019: Top view of bridge from West approach. (22)

5 Dec 2019: View of North from bridge. (26)

5 Dec 2019: View of South from bridge. (15)

5 Dec 2019: View of left elevation of bridge. (16)

5 Dec 2019: View of right elevation of bridge. (11)

5 Dec 2019: View of super/sub structure of bridge. (4)

5 Dec 2019: Expansion material pulling loose and/or missing, typical. (13)

5 Dec 2019: Clearance sign in place above WBL of I-26. (27)

5 Dec 2019: Clearance sign above EBL of I-126 is for #4010002640372. (2)

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
HIGHWAY MAINTENANCE MANAGEMENT SYSTEM

Bridge Deficiency Report

District	Work County	Type	Route	Aux	Off Sys	Asset ID	Priority	Activity	Status	Work Inspection From Date	Work Inspection To Date
1	**RICHLAND**	**I**	**26**			**8030**	**C**		**INCOMPLETE**		

District: **1 - ONE**

Work County: **RICHLAND**

Structure	Type	Route	Aux	Milepoint	Direction	Off System Description
8030 - 10002640300-I-126	**I**	**26**	**00**	**107.96**	**E**	

Insp.Date	Activity	Priority	Comp.Date	Org.Unit	Work Insp.Date	Cleared	Name Of Inspector
12/05/2019	**805**	**C**				**N**	

Deficiency Comment

(301) REPLACE EXPANSION MATERIAL, (SEE PHOTO).

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
HIGHWAY MAINTENANCE MANAGEMENT SYSTEM

Bridge Deficiency Report

District	Work County	Type	Route	Aux	Off Sys	Asset ID	Priority	Activity	Status	Work Inspection From Date	Work Inspection To Date
1	**RICHLAND**	**I**	**26**			**8030**	**D**		**INCOMPLETE**		

District: **1 - ONE**

Work County: **RICHLAND**

Structure	Type	Route	Aux	Milepoint	Direction	Off System Description
8030 - 10002640300-I-126	**I**	**26**	**00**	**107.96**	**E**	

Insp.Date	Activity	Priority	Comp.Date	Org.Unit	Work Insp.Date	Cleared	Name Of Inspector
02/04/2004	**806**	**D**				**N**	

Deficiency Comment

(311, 313) TIGHTEN LOOSE ANCHOR BOLT NUTS, (SEE SKETCH SHEET).
(311, 313) REPLACE MISSING ANCHOR BOLT NUT, (SEE SKETCH SHEET).
(311, 313) REMOVE RUST AND REPAINT BEARINGS.