EXHIBIT H

BRIDGE INSPECTION REPORT

PREPARED FOR: FLORIDA DEPARTMENT OF TRANSPORTATION

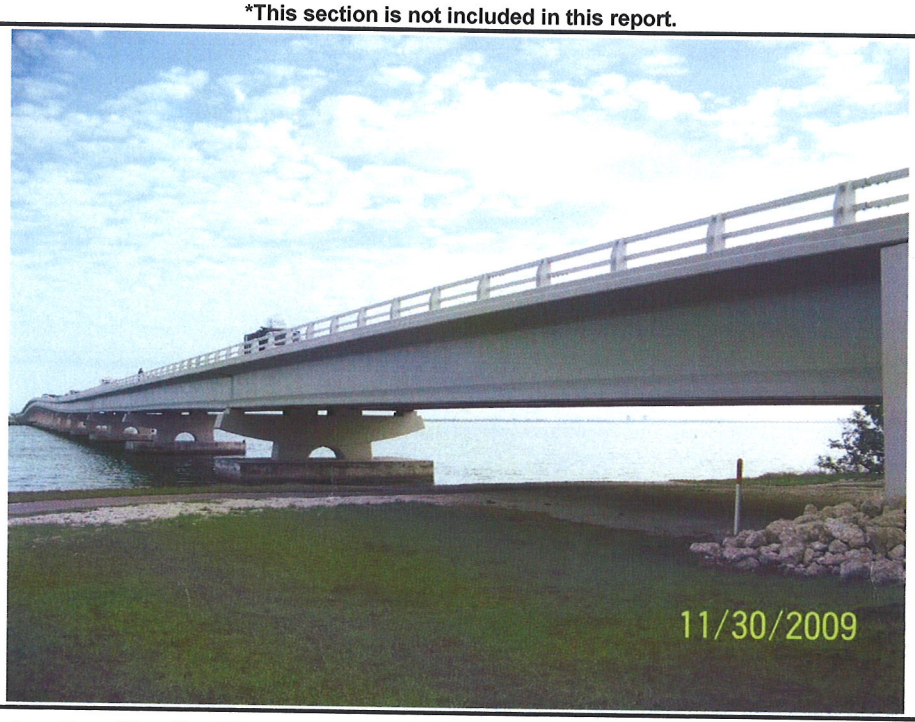
BRIDGE OWNER: LEE COUNTY

INSPECTED BY:

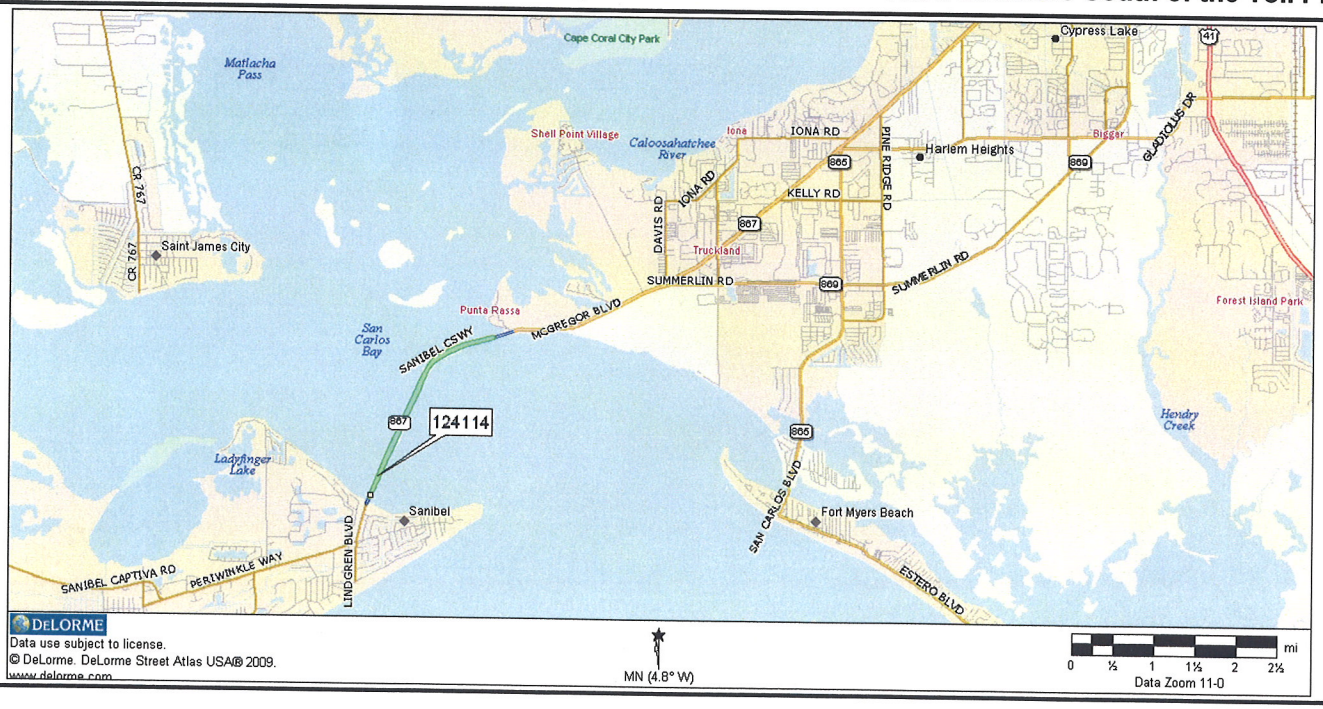
BRIDGE NO. 124114 **CONTENTS OF REPORT** **INSPECTION DATE:** 11/30/2009

- Pontis Report
- CIDR
- Scour Elevation (Profile)
- * Addendum (Element Notes & Photos/Sketches)
- U/W Inspection Report
- * Fracture Critical Data
- * Load Rating Analysis Summary

*This section is not included in this report.



CR-867 over San Carlos Bay (Sanibel Structure C) **Third Structure South of the Toll Plaza**



FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection Report with PDF attachment(s)

BRIDGE ID: 124114
DISTRICT: 01 Bartow

INSPECTION DATE: 11/30/2009 SJCS

BY: KCA
OWNER: 2 County Hwy Agency
MAINTAINED BY: 2 County Hwy Agency
STRUCTURE TYPE: 6 P/S Conc Continuous 02 Stringer/Girder
LOCATION: 3RD STRUCT S OF TOLL PLAZ
SERVICE TYPE ON: 1 Highway
SERV TYPE UND: 5 Waterway

STRUCTURE NAME: STRUCTURE C SANIBEL CAUSE\
YEAR BUILT: 2007
SECTION NO.: 12 000 000
MP: 0
ROUTE: 00867
FACILITY CARRIED: CR-867
FEATURE INTERSECTED: SAN CARLOS BAY

☐ FUNCTIONALLY OBSOLETE ☐ STRUCTURALLY DEFICIENT

TYPE OF INSPECTION: Regular NBI
DATE FIELD INSPECTION WAS PERFORMED: ABOVE WATER: 11/30/2009 UNDERWATER: 10/05/2009

SUFFICIENCY RATING: 79.0
HEALTH INDEX: 99.06

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BRIDGE MANAGEMENT SYSTEM
Inspection Report with PDF attachment(s)

BRIDGE ID: 124114
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INSPECTION DATE: 11/30/2009 SJCS

BY: KCA
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STRUCTURE TYPE: 6 P/S Conc Continuous 02 Stringer/Girder
LOCATION: 3RD STRUCT S OF TOLL PLAZ
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STRUCTURE NAME: STRUCTURE C SANIBEL CAUSE\
YEAR BUILT: 2007
SECTION NO.: 12 000 000
MP: 0
ROUTE: 00867
FACILITY CARRIED: CR-867
FEATURE INTERSECTED: SAN CARLOS BAY

☐ THIS BRIDGE CONTAINS FRACTURE CRITICAL COMPONENTS
☐ THIS BRIDGE IS SCOUR CRITICAL
☐ THIS REPORT IDENTIFIES DEFICIENCIES WHICH REQUIRE PROMPT CORRECTIVE ACTION
☐ FUNCTIONALLY OBSOLETE ☐ STRUCTURALLY DEFICIENT

TYPE OF INSPECTION: Regular NBI
DATE FIELD INSPECTION WAS PERFORMED: ABOVE WATER: 11/30/2009 UNDERWATER: 10/05/2009

SMART FLAGS:
None

OVERALL NBI RATINGS:
DECK: 8 Very Good
SUPERSTRUCTURE: 7 Good
SUBSTRUCTURE: 7 Good
CHANNEL: 7 Minor Damage
CULVERT: N N/A (NBI)
SUFFICIENCY RATING: 79.0
HEALTH INDEX: 99.06
PERFORMANCE RATING: Good

FIELD PERSONNEL / TITLE / NUMBER	INITIALS
O'Grady, John - Bridge Inspector (CBI# 00344) (lead)	
Carreno, Fernando - BI Tech	
Hays, Stephen - Bridge Inspector (CBI#00438)/Lead Diver	
Myers, Jared - Diver/Inspector	
Harris, Scott - Diver/Inspector	

REVIEWING BRIDGE INSPECTION SUPERVISOR:
Crissey, Dave - Bridge Inspector (CBI #00321)

CONFIRMING REGISTERED PROFESSIONAL ENGINEER:
LoCicero, Thomas - PE #31136
Kisinger Campo & Associates
9270 Bay Plaza Blvd., Suite 605
Certificate of Authorization #2317
Tampa, FL 33619

SIGNATURE: Thomas G. LoCicero
DATE: 1/8/10

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All Elements

UNIT: Unit 1 DECKS

ELEMENT/ENV: 12/4 Bare Concrete Deck 166651 sf. ELEM CATEGORY: Decks/Slabs

CONDITION STATE (5)	DESCRIPTION	QUANTITY
1	The surface and underside of the deck have few repaired areas, there are few spalls/delaminations in the deck surface or underside and the only cracking is superficial or surface map cracking. The combined distressed area is 2% or less of the deck area.	166651 sf.

ELEMENT INSPECTION NOTES:

Note: Two 4-1/2in. diameter fiberglass conduits and one 3-1/2in. diameter PVC conduit are suspended from hangers anchored to the underside of Bay 1 in all spans. Refer to photo 1. The type of anchorage for the hangers is unknown.

CS1 = There is a light accumulation of dirt and debris in the shoulder areas - NEW.

The undersides of the overhangs have full width x up to 1/64in. wide transverse cracks, some with efflorescence - NEW.

ELEMENT/ENV: 300/4 Strip Seal Exp Joint 431 lf. ELEM CATEGORY: Joints

CONDITION STATE (3)	DESCRIPTION	QUANTITY
1	The element shows minimal deterioration. There is no leakage at any point along the joint. Gland is secure and has no defects. Debris in joint is not causing any problems. The adjacent deck and/or header is sound.	431 lf.

ELEMENT INSPECTION NOTES:

Note: Joints are present at Abutments 1 and 28 and at Piers 4, 7, 10, 13, 16, 19, 22 and 25.

CS1 = The joints are filling with dirt and debris, but are functioning as intended at this time - NEW. Refer to photo 2.

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All Elements

UNIT: Unit 1 SUPERSTRUCTURE

ELEMENT/ENV: 334/4 Metal Rail Coated 7734 lf. ELEM CATEGORY: Railing

CONDITION STATE (5)	DESCRIPTION	QUANTITY
1	There is no evidence of active corrosion. Protective coating is sound and functioning as intended to protect the element.	7734 lf.

ELEMENT INSPECTION NOTES:

Note: Barriers meet NCHRP TL4 criteria and meet standards for SIA Item #36. standards

CS1 = The bridge rails have minor impact related scrapes at random locations - NEW.

ELEMENT/ENV: 109/4 P/S Conc Open Girder 15467 lf. ELEM CATEGORY: Superstructure

CONDITION STATE (4)	DESCRIPTION	QUANTITY
1	The element shows little or no deterioration. There may be discoloration efflorescence, and/or superficial cracking but without affect on strength and/or serviceability.	15464 lf.
3	Some delaminations and/or spalls may be present. There may be minor exposure but no deterioration of the prestress system. Corrosion of non-prestressed reinforcement may be present but loss of section is incidental and does not significantly affect the strength and/or serviceability of either the element or the bridge.	3 lf.

ELEMENT INSPECTION NOTES:

CS1 = The beams have multiple diagonal web cracks of various lengths up to 4ft. long x 1/64in. wide near the bearing areas, extending up and away from the supports. Refer to photo 3.

CS3 = The west face of the bottom flange of Beam 6-4 at Pier 7 has a 30in. x 12in. delamination - NEW. Refer to photo 4. REPAIR

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All Elements

UNIT: Unit 1 SUBSTRUCTURE

ELEMENT/ENV: 310/4 Elastomeric Bearing 216 ea. ELEM CATEGORY: Bearings

CONDITION STATE (3)	DESCRIPTION	QUANTITY
1	The element shows little or no deterioration. Shear deformations are correct for existing temperatures.	216 ea.

ELEMENT/ENV: 563/4 Acc Ladd & Plat 8 ea. ELEM CATEGORY: Movable

CONDITION STATE (5)	DESCRIPTION	QUANTITY
1	There is no evidence of active corrosion, and the paint system is sound and functioning as intended to protect the metal surface.	8 ea.

ELEMENT INSPECTION NOTES:

Note: The quantity includes four fender access ladders and four platforms/walkways.

ELEMENT/ENV: 580/4 Navigational Lights 1 ea. ELEM CATEGORY: Movable

CONDITION STATE (3)	DESCRIPTION	QUANTITY
1	Lights are operational, lenses are clean and not broken, there is no evidence of corrosion.	1 ea.

ELEMENT INSPECTION NOTES:

Note: This element represents six fender lights, two clearance at centerline of channel gauge lights and two centerline of channel swing lights.

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All Elements

UNIT: Unit 1 SUBSTRUCTURE

ELEMENT/ENV: 205/4 R/Conc Column 52 ea. ELEM CATEGORY: Substructure

CONDITION STATE (4)	DESCRIPTION	QUANTITY
1	The element shows little or no deterioration. There may be discoloration, efflorescence, and/or superficial cracking but without affect on strength and/or serviceability.	52 ea.

ELEMENT INSPECTION NOTES:

CORRECTIVE ACTION TAKEN:
The previously noted lifting eyes have been removed since the previous inspection.

ELEMENT/ENV: 207/4 P/S Conc Holl Pile 360 ea. ELEM CATEGORY: Substructure

CONDITION STATE (4)	DESCRIPTION	QUANTITY
1	The element shows little or no deterioration. There may be discoloration, efflorescence, and/or superficial cracking but without affect on strength and/or serviceability.	359 ea.
2	Minor cracks, spalls and scaling may be present and there may be exposed reinforcing with no evidence of corrosion. There is no exposure of the prestress system.	1 ea.

ELEMENT INSPECTION NOTES:

Note: The divers cleaned Piles 6-1 thru 6-8, 6-13 thru 6-15, 22-1 thru 22-15, 23-1 thru 23-3, 23-5 thru 23-10, 23-14 and all deficiencies. The divers noted that no piles are visible under Footers 2 and 27.

The following was noted by the underwater inspectors:
CS1 = Pile 11-6, previously noted as Pile 10-6, has a corrugated metal pipe sleeve around it with no fill material, starting 24in. below the footer and extending to the groundline.

CS2 = The northeast corner of Pile 6-4 has a 3ft. 7in. x 10in. x 2-1/2in. spall with no exposed steel, 28in. below the footer - INCREASE. This was previously noted as Pile 16-1.

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All Elements

UNIT: Unit 1 SUBSTRUCTURE

ELEMENT/ENV: 215/4 R/Conc Abutment 70 lf. ELEM CATEGORY: Substructure

CONDITION STATE (4)	DESCRIPTION	QUANTITY
1	The element shows little or no deterioration. There may be discoloration, efflorescence, and/or superficial cracking but without affect on strength and/or serviceability.	70 lf.

ELEMENT/ENV: 220/4 R/C Sub Pile Cap/Ftg 26 ea. ELEM CATEGORY: Substructure

CONDITION STATE (4)	DESCRIPTION	QUANTITY
1	The element shows little or no deterioration. There may be discoloration, efflorescence, and/or superficial cracking but without affect on strength and/or serviceability.	13 ea.

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All Elements

UNIT: Unit 1 SUBSTRUCTURE

ELEMENT/ENV: 220/4 R/C Sub Pile Cap/Ftg 26 ea. ELEM CATEGORY: Substructure

CONDITION STATE (4)	DESCRIPTION	QUANTITY
2	Minor cracks, spalls and scaling may be present but there is no exposed reinforcing or surface evidence of rebar corrosion.	13 ea.

ELEMENT INSPECTION NOTES:

Note: The divers cleaned Footers 3, 4, 5 and all deficiencies.

CS2 = The following footers have spalls with no exposed steel up to 24in. x 12in. x 8in.;
Footer 4, northeast corner
Footer 5, northeast corner
Footer 6, southeast and northeast corners
Footer 7, southeast and northeast corners
Footer 8, northeast corner
Footer 9, northeast corner
Footer 14, northeast corner - NEW.
Footer 19, southeast corner
Footer 22, southeast and northeast corners
Footer 23, southeast corner

The following was noted by the underwater inspectors:
The northeast corner of Footer 5 has a 30in. x 10in. x 2in. spall with no exposed steel, 3ft. below the top of the footer.
The southeast corner of Footer 19 has a 25in. x 15in. x 2-1/2in. spall with no exposed steel, 27in. below the top of the footer.
Footers 25, 26 and 27 have a different construction with concrete formed sides. The sides have vertical cracks up to 1/16in. wide to full height with efflorescence.

CORRECTIVE ACTION TAKEN:
The previously noted lifting eyes in-place on the footers have been removed since the previous inspection. Also, the spalls in Footers 3 and 16 have been repaired since the previous inspection.

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All Elements

UNIT: Unit 1 SUBSTRUCTURE

ELEMENT/ENV: 234/4 R/Conc Cap 1121 lf. ELEM CATEGORY: Substructure

CONDITION STATE (4)	DESCRIPTION	QUANTITY
1	The element shows little or no deterioration. There may be discoloration, efflorescence, and/or superficial cracking but without affect on strength and/or serviceability.	1121 lf.

ELEMENT/ENV: 387/4 P/S Fender/Dolphin 384 lf. ELEM CATEGORY: Substructure

CONDITION STATE (4)	DESCRIPTION	QUANTITY
1	The element shows little or no deterioration. There may be discoloration, efflorescence, and/or superficial cracking but without affect on strength and/or serviceability.	384 lf.

ELEMENT INSPECTION NOTES:

The following was noted by the underwater inspectors:
CS1 = The lower connecting hardware has light corrosion with no measurable section loss - NEW.

ELEMENT/ENV: 393/4 Blkhd Sewl Any Mater 350 ft ELEM CATEGORY: Substructure

CONDITION STATE (4)	DESCRIPTION	QUANTITY
1	There is little or no deterioration. Surface defects only are in evidence. Random open joints may exist.	350 ft

ELEMENT INSPECTION NOTES:

Note: This element represents the north bulkhead constructed with concrete sheet piling and a concrete cap.

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All Elements

UNIT: Unit 1 SUBSTRUCTURE

ELEMENT/ENV: 396/4 Other Abut Slope Pro 2500 sf. ELEM CATEGORY: Substructure

CONDITION STATE (4)	DESCRIPTION	QUANTITY
1	There is little or no deterioration. Surface defects only are in evidence. Random open joints may exist.	2500 sf.

ELEMENT INSPECTION NOTES:
Note: This element includes the rock rubble rip rap and concrete block mats.

ELEMENT/ENV: 321/4 R/Conc Approach Slab 2 ea. ELEM CATEGORY: Other Elements

CONDITION STATE (4)	DESCRIPTION	QUANTITY
1	The slab has not settled and shows no sign of deterioration other than superficial surface cracks.	2 ea.

ELEMENT INSPECTION NOTES:
Note: The approach slabs are not visible due to an overlay of asphalt.

ELEMENT/ENV: 478/4 MSE Walls 120 lf. ELEM CATEGORY: Other Elements

CONDITION STATE (4)	DESCRIPTION	QUANTITY
1	There is little or no deterioration. Surface defects only are in evidence.	120 lf.

ELEMENT INSPECTION NOTES:
Note: This element quantifies 30lf at each corner.

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All Elements

UNIT: Unit 1 MISCELLANEOUS

ELEMENT/ENV: 290/4 Channel **1 ea.** **ELEM CATEGORY:** Channel

CONDITION STATE (4)	DESCRIPTION	QUANTITY
2	Bank protection is in need of minor repairs, bank may be beginning to slump, minor stream bed movement may be evident or debris may be present.	1 ea.

ELEMENT INSPECTION NOTES:

CS2 = Some channel measurements have a 2ft. or greater change since the previous inspection. The reason for the changes may be due to the strong currents altering the channel bottom.

Some channel measurements have a 2ft. or greater change since the previous inspection. Reason for change may be due to the strong current and/or ongoing demolition of the old structures during the previous inspection, altering the channel bottom.

Structure Notes

BRIDGE OWNER: LEE COUNTY

TRAFFIC STATEMENT: According to the load rating dated 4/13/04, the structure does not require posting. This structure is not posted.

Structure was inventoried from south to north.

This structure replaced Bridge No. 124041.

Lane shift required for underbridge inspection vehicle.
A power boat was used for groundline measurements and substructure inspection.

Owner provided 2008 ADT.

INSPECTION NOTES: SJCS 11/30/2009

Sufficiency Rating Calculation Accepted by KNKCARL-P at 2010-01-07 15:13:08

LOAD CAPACITY EVALUATION:
The findings of this inspection reveal no reason to warrant a new analysis; therefore, the current load rating results still govern.

Note: Pontis Element 393 Blkhd Sewl Any Mater was created in this inspection report.

Note: NBI Item #58 Superstructure was changed from an 8 to a 7 due to the diagonal cracks in the webs of the beams. NBI Item #61 Channel was changed form an 8 to a 7 due to the changes of 2ft. or greater in the channel measurements at some locations.

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FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection Report with PDF attachment(s)

BRIDGE ID: 124114
DISTRICT: 01 Bartow

INSPECTION DATE: 11/30/2009 SJCS

Photo 1 - Element 12 Bare Concrete Deck

View of utilities in Bay 1 of all spans

REPAIR RECOMMENDATION:
None

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BRIDGE MANAGEMENT SYSTEM
Inspection Report with PDF attachment(s)

BRIDGE ID: 124114
DISTRICT: 01 Bartow

INSPECTION DATE: 11/30/2009 SJCS

Photo 2 - Element 300 Strip Seal Exp Joint

Typical view of dirt and debris in the joints (Abutment 1 joint shown)

REPAIR RECOMMENDATION:
None

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Photo 3 - Element 109 P/S Conc Open Girder

Typical view of diagonal web cracks in the beams

REPAIR RECOMMENDATION:
None

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BRIDGE MANAGEMENT SYSTEM
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INSPECTION DATE: 11/30/2009 SJCS

Photo 4 - Element 109 P/S Conc Open Girder

Delamination in the west face of the bottom flange of Beam 6-4 at Pier 7

REPAIR RECOMMENDATION:
Repair the delamination in the west face of the bottom flange of Beam 6-4 at Pier 7.

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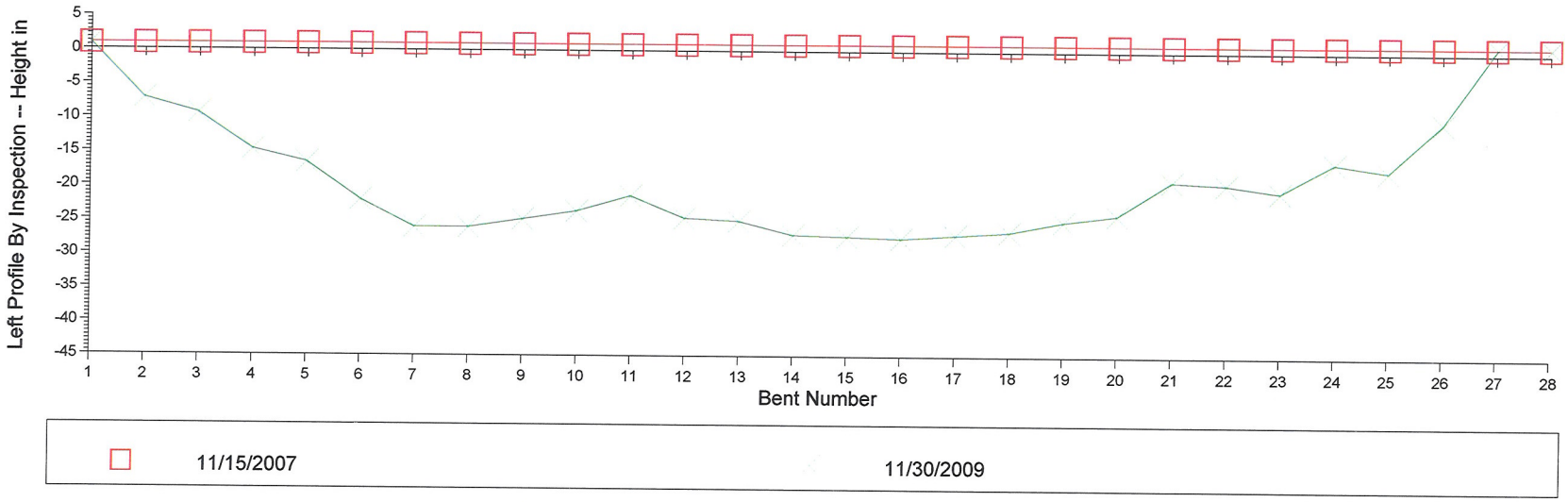
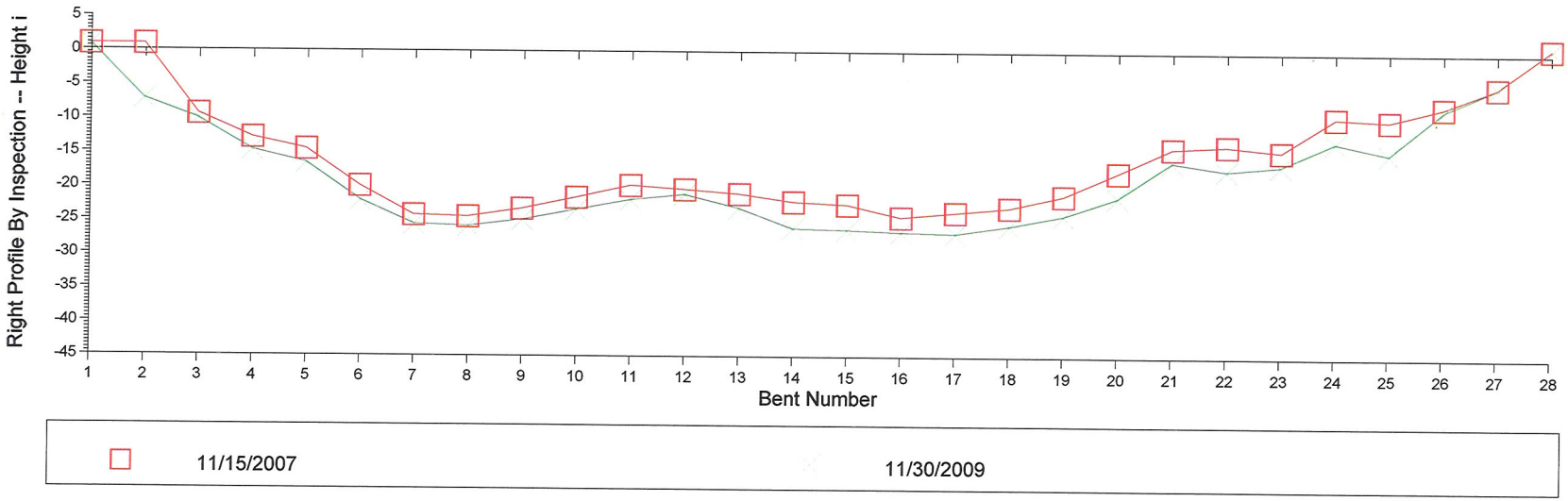
FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM
Bridge Profile Report

REPORT ID: INVT016

Structure #: 124114

DATE PRINTED: 01/07/2010





Profile Data - Numerical Summary

Inspection Date and Key: 11/30/2009 SJCS

(All Heights Are In Feet)

Bent #	Left Height	Right Height
1	-1	-1
2	7.1	7.1
3	9.3	10
4	14.6	14.6
5	16.5	16.5
6	22	22
7	26	25.5
8	26	25.8
9	24.8	24.8
10	23.6	23.3
11	21.3	21.8
12	24.6	21
13	25	23
14	27	26
15	27.2	26.2
16	27.5	26.5
17	27	26.7
18	26.5	25.5
19	25	24
20	24	21.3
21	19	16
22	19.4	17.2
23	20.5	16.5
24	16.2	13
25	17.4	14.7
26	10.2	8.2
27	-1	4.8
28	-1	-1

Air Temp: 1

Profile Notes:

Meaurements referenced from the top of the footers.
Waterline at Footer 3 = 2.8ft.
Note: A meaurement showing a -1 indicates that location was out of the water.

Profile Data - Numerical Summary

Inspection Date and Key: 11/15/2007 NPFY

(All Heights Are In Feet)

Bent #	Left Height	Right Height
1	-1	-1
2	-1	-1
3	-1	9.3
4	-1	12.8
5	-1	14.5
6	-1	19.9
7	-1	24.2
8	-1	24.4
9	-1	23.2
10	-1	21.5
11	-1	19.7
12	-1	20.3
13	-1	20.9
14	-1	22.1
15	-1	22.5
16	-1	24.3
17	-1	23.6
18	-1	22.9
19	-1	21.1
20	-1	17.6
21	-1	14
22	-1	13.6
23	-1	14.4
24	-1	9.4
25	-1	9.8
26	-1	7.8
27	-1	4.8
28	-1	-1

Air Temp:

Profile Notes:

Profile Reference: Top of Footer 3.
Waterline at Footer 3: 2.8FT
NOTE: Left side measurements were not taken due to the ongoing demolition of the replaced structure at the time of this inspection.

BOLT UNDERWATER SERVICES
7946 62ND STREET NORTH
PINELLAS PARK, FL 33781

Routine Underwater Bridge Inspection Report for Kisinger Campo & Associates, Corp.

NBI Structure No. (8): **124114**

Underwater Date (93): 10/05/09

Structure/Roadway Identification:

District (2): 01
County (3): Lee
Feature Intersected (6): San Carlos Bay
Facility Carried (7): CR 867

Underwater Inspection Details:

Special Crew Hours: 12.0
Max. Depth: 25ft.
Type of Dive Insp.: SCUBA
Type of Boat Used: 21ft.
Water Type/Marine Growth: Salt-Tidal / Barnacles - Oysters

Previous Inspection:

Lead Diver:	C.B.I. No.:	Inspection Date:
Hoogland, Keith S.	00341	10/02/07

Inspection Personnel:

Field Personnel:	Title	C.B.I. No.:	Duty:	Signature:
Hays, Stephen F.	C.B.I. Diver-Inspector	00438/Lead	Tend	
Myers, Jared L	Diver-Inspector		Dive	
Harris, Scott R.	Diver-Inspector		Dive	

PILING/COLUMNS
ELEMENT: 207 HLW CORE **360**: ea.

Condition State:	QTY:	Recommended Feasible Action:
CS-1	**359**	**Do Nothing**

Footer 2 and 27 has no visible piling.

Pile 11-6: There is a CMP sleeve around the pile with no fill material, starting 24in. below footer to the G/L. This pile could not be inspected (possible incomplete jacket). *(Previously noted as 10-6)*

CS-2 **1** **Do Nothing**
Pile 6-4: NE edge 28in. below footer, SPL, no exposed steel, 3ft. 7in. x 10in. x 2½in. *INCREASED (Previously noted as 16-1)*

NOTE: Piles 6-1 through 6-8, 6-13 through 6-15, 22-1 through 22-15, 23-1 through 23-3, 23-5 through 23-10, 23-14 and all deficiencies were cleaned.

SUBMERGED FOOTER
ELEMENT: 220 R/CONCRETE **26**: ea.

Condition State:	QTY:	Recommended Feasible Action:
CS-1	**21**	**Do Nothing**
CS-2	**5**	**Do Nothing**

Footers 25, 26 and 27 have a different construction with a concrete formed side. The sides have vertical cracks up to 1/16in. wide to full height with efflorescence.
Footer 5: NE edge 3ft. below top of footer, SPL, no exposed steel, 30in. x 10in. x 2in.
Footer 19: SE edge 27in. below top of footer, SPL, no exposed steel, 25in. x 15in. x 2½in.

CAT: The spalls on Footer 3 and 16 were patched.

NOTE: Footers 3, 4, 5 and all deficiencies were cleaned.

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CHANNEL
ELEMENT: 290 1: ea.

Condition State:	QTY:	Recommended Feasible Action:
CS-1	1	Do Nothing

FENDER SYSTEM
ELEMENT: 387 P/S CONCRETE 384 lf.

Condition State:	QTY:	Recommended Feasible Action:
CS-1	384 lf.	Do Nothing

The lower connecting hardware has light corrosion with no measureable section loss. *NEW*

BULKHEAD
ELEMENT: 393 OTHER: 350 lf.

NOTE: Quantity includes N Bulkhead only.

Condition State:	QTY:	Recommended Feasible Action:
CS-1	350 lf.	Do Nothing

INSPECTION NOTES: Divers inspected three hundred sixty 30in. piling in Bents 3 through 26, Footers, Fender System, N Bulkhead and Channel.
STRUCTURE NOTES: Structure inventoried south to north.

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Description

Structure Unit Identification

Bridge/Unit Key: 124114 1
Structure Name: STRUCTURE C SANIBEL CAUSEWAY
Description: MAIN SPAN
Type: M Main

Roadway Identification:

NBI Structure No (8) 124114
Position/Prefix (5) Route On Structure
Kind Hwy (Rte Prefix) 4 County Hwy
Design Level of Service 1 Mainline
Route Number/Suffix 00867/ 0 N/A (NBI)
Feature Intersect (6) SAN CARLOS BAY
Critical Facility Not Defense-crit
Facility Carried (7) CR-867
Mile Point (11) 0
Latitude (16) 026d27'17" Long (17) 082d02'10"

Roadway Traffic and Accidents

Lanes (28) 2 Medians 0 Speed 35 mph
ADT Class ADT Class 4
Recent ADT (29) 19690 Year (30) 2008
Future ADT (114) 20675 Year (115) 2028
Truck % ADT (109) 7
Detour Length (19) 99 mi
Detour Speed -1 mph
Accident Count -1 Rate -1

Roadway Classification

Nat. Hwy Sys (104) 0 Not on NHS
National base Net (12) Not on Base Network
LRS Inventory Rte (13a) 12 000 000 Sub Rte (13b) 00
Functional Class (26) 16 Urban Minor Arterial
On Federal Aid System Y
Defense Hwy (100) 0 Not a STRAHNET hwy
Direction of Traffic (102) 2 2-way traffic
Emergency ☑

Roadway Clearances

Vertical (10) 99.99 ft Appr. Road (32) 40
Horiz. (47) 40 ft Roadway (51) 40 ft
Truck Network (110) 0 Not part of natl netwo
Toll Facility (20) 2 On toll road
Fed. Lands Hwy (105) 0 N/A (NBI)
School Bus Route ☑
Transit Route ☑

Thomas G. LaCicero
1/8/10

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Structure Identification

Admin Area Lee County
District (2) D1 - Bartow
County (3) (12)Lee
Place Code (4) Sanibel
Location (9) 3RD STRUCT S OF TOLL PLAZ
Border Br St/Reg (98) Not Applicable (P) Share 0 %
Border Struct No (99) _
FIPS State/Region (1) 12 Florida Region 4-Atlanta
NBIS Bridge Len (112) Meets NBI Length
Parallel Structure (101) No || bridge exists
Temp. Structure (103) Not Applicable (P)
Maint. Resp. (21) 2 County Hwy Agency
Owner (22) 2 County Hwy Agency
Historic Signif. (37) 5 Not eligible for NRHP

Structure Type and Material

Curb/Sidewalk (50): Left 0 ft Right 0 ft
Bridge Median (33): 0 No median
Main Span Material (43A): 6 P/S Conc Continuous
Appr Span Material (44A): Not Applicable (P)
Main Span Design (43B): 02 Stringer/Girder
Appr Span Design (44B): Not Applicable (P)

Geometrics

Spans in Main Unit (45) 27
Approach Spans (46) 0
Length of Max Span (48) 144 ft
Structure Length (49) 3866.6 ft
Total Length 3906.6 ft
Deck Area 166651 sqft
Structure Flared (35) 0 No flare

Age and Service

Year Built (27) 2007
Year Reconstructed (106) 0
Type of Service On (42a) 1 Highway
Under (42b) 5 Waterway
Fracture Critical Details Not Applicable

Deck Type and Material

Deck Width (52): 43.1
Skew (34): 0
Deck Type (107): 1 Concrete-Cast-in-Place
Surface (108): 0 None
Membrane: 0 None
Deck Protection: None

Appraisal

Structure Appraisal

Open/Posted/Closed (41) A Open, no restriction
Deck Geometry (68) 5 Above Tolerable
Underclearances (69) N Not applicable (NBI)
Approach Alignment (72) 8-No Speed Red thru Curv
Bridge Railings (36a) 1 Meets Standards
Transitions (36b) 1 Meets Standards
Approach Guardrail (36c) 1 Meets Standards
Approach Guardrail ends (36d) 1 Meets Standards
Scour Critical (113) 8 Stable Above Footing

Navigation Data

Navigation Control (38) Permit Required
Nav Vertical Clr (39) 26 ft
Nav Horizontal Clr (40) 96.2 ft
Min Vert Lift Clr (116) 0 ft
Pier Protection (111) 2 In-Place, Functioning

NBI Condition Rating

Sufficiency Rating 79
Health Index 99.06
Structural Eval (67) 7 Above Min Criteria
Deficiency Not Deficient

Minimum Vertical Clearance

Over Structure (53) 99.99 ft
Under (reference) (54a) N Feature not hwy or RR
Under (54b) 0 ft

Minimum Lateral Underclearance

Reference (55a) N Feature not hwy or RR
Right Side (55b) 0 ft
Left Side (56) 0 ft

Load Rating

Design Load (31) HL 93
Rating Date 4/13/2004 Initials MCM
Posting (70) 5 At/Above Legal Loads

Operating Type (63) 1 LF Load Factor
Operating rating (64) 99.9 tons Alternate -1
Inventory Type (65) 1 LF Load Factor
Inventory Rating (66) 59.2 tons Alternate -1
Alt Meth -1

Schedule

Current Inspection

Inspection Date: 11/30/2009
Inspector: KN538OJ-P - John O'Grady
Bridge Group: BD523
Primary Type: Regular NBI
Review Required: ☑

Next Inspection Date Scheduled

NBI: 11/30/2011
Element: 11/30/2011
Fracture Critical:
Underwater: 11/30/2011
Other/Special:

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Schedule Cont.

Inspection Types Performed NBI ☑ Element ☑ Fracture Critical ☐ Underwater ☑ Other Special ☐

Inspection Intervals	Required (92)	Frequency (92)	Last Date (93)
Fracture Critical	☐	mos	
Underwater	☑	24 mos	10/05/2009
Other Special	☐	mos	
NBI		24 mos (91)	11/30/2009 (90)

Inspection Resources

Crew Hours	40
Flagger Hours	8
Helper Hours	0
Snooper Hours	6
Special Crew Hours	12
Special Equip Hours	0

Custom

General Bridge Information

Parallel Bridge Seq	
Channel Depth	24.701 ft
Radio Frequency	-1
Phone Number	(000) 000-0000
Exception Date	
Exception Type	Unknown
Accepted By Maint	00/00/0000
Warranty Expiration	00/00/0000
Bridge Rail 1	Steel barrier
Bridge Rail 2	Not applicable-No rail
Electrical Devices	Navigation lights only
Culvert Type	Not applicable
Maintenance Yard	0
FIHS ON / OFF	No Routes on FIHS
Previous Structure	124041
2nd Previous Structure	
Replacement Structure	

Bridge Load Rating Information

HS20 Govr. Span Length	144 ft
L-Rating Origination	Design Plans
Load Rating Date	04/13/2004
Method Calculation	Others
Load Dist. Factor	1.047
Impact Factor	19
Design Method	Load Factor
Design Measure	English
Recommend SU Posting	99 tons
Recommend C Posting	99 tons
Recommend T Posting	99 tons
Gov FB Span	0 ft
Gov FB Spacing	0 ft
FB HS20 Rating	0 tons
FB SU4 Rating	0 tons
FB Present	N
FB INV Rating Factor	0
FB OPR Rating Factor	0
FB FL 120	0 tons
Single Unit Truck 2 Axles	91.6 tons
Single Unit Truck 3 Axles	76.6 tons
Single Unit Truck 4 Axles	82.4 tons
Combination Unit Truck 3 Axles	93.5 tons
Combination Unit Truck 4 Axles	84.4 tons
Combination Unit Truck 5 Axles	92.899 tons
Truck Trailer 5 Axles	98.1 tons
Posting Weight	99 tons
Actual SU Posting	99 tons
Actual C Posting	99 tons
Actual T Posting	99 tons
FL 120 Long Gov Span	-1 tons
FL 120 Trans	-1 tons
Single Axle Trans	-1 tons
Tandem Axle Trans	-1 tons
Wing Span	-1 ft
Web to Web Span	-1 ft
HS20 OPR Rating Max Span	98.9 tons
FL120 Long Max Span	-1 tons

Bridge Scour and Storm Information

Pile Driving Record	All pile driving records
Foundation Type	Foundation details
Mode of Flow	Tidal
Rating Scour Eval	Low Risk - High
Highest Scour Eval	No phase completed
Scour Recommended I	No recommendation
Scour Recommended II	No recommendation
Scour Recommended III	No recommendation
Scour Elevation	999 ft
Action Elevation	999 ft
Storm Frequency	999

Condition

NBI Rating

Channel (61)	7 Minor Damage
Deck (58)	8 Very Good
Superstructure (59)	7 Good
Substructure (60)	7 Good
Culvert (62)	N N/A (NBI)
Waterway (71)	8 Equal Desirable
Unrepaired Spalls	-1 sq.ft.
Review Required	☑

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Elements

Inspection Date: 11/30/2009SJCS

Span Id	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	Qty5	%5	T Qty
Unit 1	12/4	Bare Concrete Deck	166651	100.	0	.	0	.	0	.	0	.	166651 sf.

Notes Note: Two 4-1/2in. diameter fiberglass conduits and one 3-1/2in. diameter PVC conduit are suspended from hangers anchored to the underside of Bay 1 in all spans. Refer to photo 1. The type of anchorage for the hangers is unknown.

CS1 = There is a light accumulation of dirt and debris in the shoulder areas - NEW.

The undersides of the overhangs have full width x up to 1/64in. wide transverse cracks, some with efflorescence - NEW.

Unit 1	300/4	Strip Seal Exp Joint	431	100.	0	.	0	.	0	.	0	.	431 lf.

Notes Note: Joints are present at Abutments 1 and 28 and at Piers 4, 7, 10, 13, 16, 19, 22 and 25.

CS1 = The joints are filling with dirt and debris, but are functioning as intended at this time - NEW. Refer to photo 2.

Unit 1	334/4	Metal Rail Coated	7734	100.	0	.	0	.	0	.	0	.	7734 lf.

Notes Note: Barriers meet NCHRP TL4 criteria and meet standards for SIA Item #36. standards

CS1 = The bridge rails have minor impact related scrapes at random locations - NEW.

Unit 1	109/4	P/S Conc Open Girder	15464	99.98	0	.	3	.02	0	.	0	.	15467 lf.

Notes CS1 = The beams have multiple diagonal web cracks of various lengths up to 4ft. long x 1/64in. wide near the bearing areas, extending up and away from the supports. Refer to photo 3.

CS3 = The west face of the bottom flange of Beam 6-4 at Pier 7 has a 30in. x 12in. delamination - NEW. Refer to photo 4. REPAIR

Unit 1	310/4	Elastomeric Bearing	216	100.	0	.	0	.	0	.	0	.	216 ea.

Notes

Unit 1	563/4	Acc Ladd & Plat	8	100.	0	.	0	.	0	.	0	.	8 ea.

Notes Note: The quantity includes four fender access ladders and four platforms/walkways.

Unit 1	580/4	Navigational Lights	1	100.	0	.	0	.	0	.	0	.	1 ea.

Notes Note: This element represents six fender lights, two clearance at centerline of channel gauge lights and two centerline of channel swing lights.

Unit 1	205/4	R/Conc Column	52	100.	0	.	0	.	0	.	0	.	52 ea.

Notes CORRECTIVE ACTION TAKEN:
The previously noted lifting eyes have been removed since the previous inspection.

Unit 1	207/4	P/S Conc Holl Pile	359	99.72	1	.	0	.	0	.	0	.	360 ea.

Notes Note: The divers cleaned Piles 6-1 thru 6-8, 6-13 thru 6-15, 22-1 thru 22-15, 23-1 thru 23-3, 23-5 thru 23-10, 23-14 and all deficiencies. The divers noted that no piles are visible under Footers 2 and 27.

The following was noted by the underwater inspectors:
CS1 = Pile 11-6, previously noted as Pile 10-6, has a corrugated metal pipe sleeve around it with no fill material, starting 24in. below the footer and extending to the groundline.

CS2 = The northeast corner of Pile 6-4 has a 3ft. 7in. x 10in. x 2-1/2in. spall with no exposed steel, 28in. below the footer - INCREASE. This was previously noted as Pile 16-1.

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Elements

Inspection Date: 11/30/2009SJCS

Span Id	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	Qty5	%5	T Qty
Unit 1	215/4	R/Conc Abutment	70	100.	0	.	0	.	0	.	0	.	70 lf.

Notes

Unit 1	220/4	R/C Sub Pile Cap/Ftg	13	50.	13	50.	0	.	0	.	0	.	26 ea.

Notes Note: The divers cleaned Footers 3, 4, 5 and all deficiencies.

CS2 = The following footers have spalls with no exposed steel up to 24in. x 12in. x 8in.;
Footer 4, northeast corner
Footer 5, northeast corner
Footer 6, southeast and northeast corners
Footer 7, southeast and northeast corners
Footer 8, northeast corner
Footer 9, northeast corner
Footer 14, northeast corner - NEW.
Footer 19, southeast corner
Footer 22, southeast and northeast corners
Footer 23, southeast corner

The following was noted by the underwater inspectors:
The northeast corner of Footer 5 has a 30in. x 10in. x 2in. spall with no exposed steel, 3ft. below the top of the footer.
The southeast corner of Footer 19 has a 25in. x 15in. x 2-1/2in. spall with no exposed steel, 27in. below the top of the footer.
Footers 25, 26 and 27 have a different construction with concrete formed sides. The sides have vertical cracks up to 1/16in. wide to full height with efflorescence.

CORRECTIVE ACTION TAKEN:
The previously noted lifting eyes in-place on the footers have been removed since the previous inspection. Also, the spalls in Footers 3 and 16 have been repaired since the previous inspection.

Unit 1	234/4	R/Conc Cap	1121	100.	0	.	0	.	0	.	0	.	1121 lf.

Notes

Unit 1	387/4	P/S Fender/Dolphin	384	100.	0	.	0	.	0	.	0	.	384 lf.

Notes The following was noted by the underwater inspectors:
CS1 = The lower connecting hardware has light corrosion with no measurable section loss - NEW.

Unit 1	393/4	Blkhd Sewl Any Mater	350	100.	0	.	0	.	0	.	0	.	350 ft

Notes Note: This element represents the north bulkhead constructed with concrete sheet piling and a concrete cap.

Unit 1	396/4	Other Abut Slope Pro	2500	100.	0	.	0	.	0	.	0	.	2500 sf.

Notes Note: This element includes the rock rubble rip rap and concrete block mats.

Unit 1	290/4	Channel	0	.	1	100.	0	.	0	.	0	.	1 ea.

Notes CS2 = Some channel measurements have a 2ft. or greater change since the previous inspection. The reason for the changes may be due to the strong currents altering the channel bottom.

Some channel measurements have a 2ft. or greater change since the previous inspection. Reason for change may be due to the strong current and/or ongoing demolition of the old structures during the previous inspection, altering the channel bottom.

Unit 1	321/4	R/Conc Approach Slab	2	100.	0	.	0	.	0	.	0	.	2 ea.

Notes Note: The approach slabs are not visible due to an overlay of asphalt.

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Elements

Inspection Date: 11/30/2009SJCS

Span Id	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	Qty5	%5	T Qty
Unit 1	478/4	MSE Walls	120	100.	0	.	0	.	0	.	0	.	120 lf.

Notes Note: This element quantifies 30lf at each corner.

Total Number of Elements: 18

Inspection Information

Inspection Date: 11.30.2009 **Type:** Regular NBI

Inspector: KN538OJ-P - John O'Grady

Inspection Notes: Sufficiency Rating Calculation Accepted by KNKCARL-P at 2010-01-07 15:13:08

LOAD CAPACITY EVALUATION:
The findings of this inspection reveal no reason to warrant a new analysis; therefore, the current load rating results still govern.

Note: Pontis Element 393 Blkhd Sewl Any Mater was created in this inspection report.

Note: NBI Item #58 Superstructure was changed from an 8 to a 7 due to the diagonal cracks in the webs of the beams. NBI Item #61 Channel was changed form an 8 to a 7 due to the changes of 2ft. or greater in the channel measurements at some locations.

Inspection Date: 11.15.2007 **Type:** Regular NBI

Inspector: KNVOLWW-P - Wade Wolfe

Inspection Notes: Sufficiency Rating Calculation Accepted by knvolsg-P at 2008-05-20 14:40:30
Sufficiency Rating Calculation Accepted by kn110ku-P at 2007-12-26 12:31:59
Sufficiency Rating Calculation Accepted by kn110ku-P at 2007-12-07 15:30:04

NOTE: For this initial inspection, construction of fenders, dolphins, slope protection, bulkheads and navigation lighting was still under construction.
Demolition of replaced structure was ongoing.
Left side channel groundline measurements not taken due to demolition of replaced structure.

LOAD CAPACITY EVALUATION:
The load rating dated 4/13/04 applies to the current condition of this bridge.

Structure Notes

BRIDGE OWNER: LEE COUNTY

TRAFFIC STATEMENT: According to the load rating dated 4/13/04, the structure does not require posting. This structure is not posted.

Structure was inventoried from south to north.

This structure replaced Bridge No. 124041.

Lane shift required for underbridge inspection vehicle.
A power boat was used for groundline measurements and substructure inspection.

Owner provided 2008 ADT.

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