EXHIBIT L

BRIDGE INSPECTION REPORT

PREPARED FOR: FLORIDA DEPARTMENT OF TRANSPORTATION

BRIDGE OWNER: LEE COUNTY

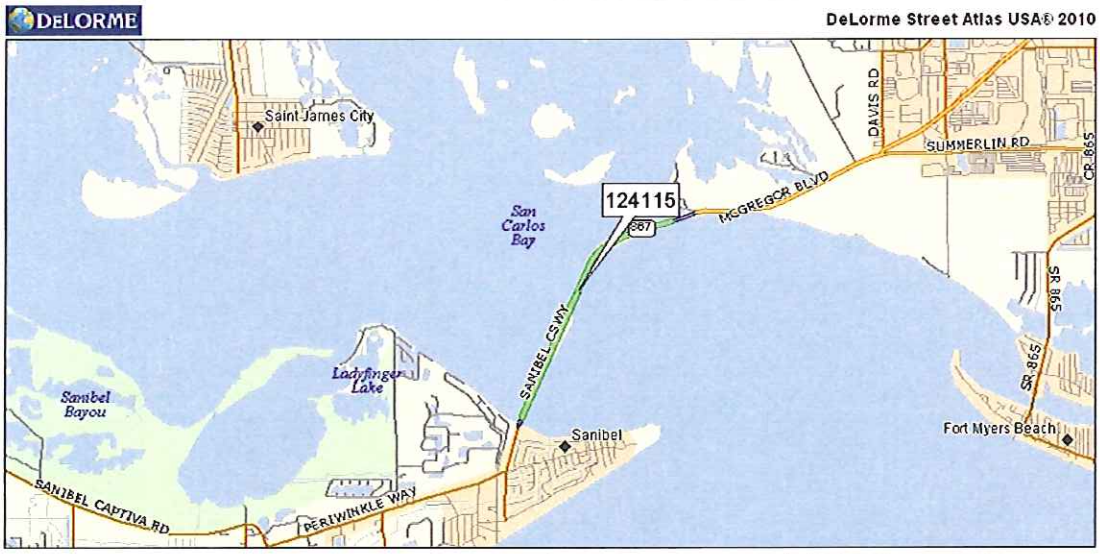
INSPECTED BY: VOLKERT

BRIDGE NO. 124115 | **CONTENTS OF REPORT** | **INSPECTION DATE:** 11/16/2011

- 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.

STRUCTURE B SANIBEL CAUSEWAY OVER SAN CARLOS BAY | **2ND STRUCTURE SOUTH OF TOLL PLAZA**



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Data Zoom 11-0

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

BY:	VOLKERT, INC.	STRUCTURE NAME:	STRUCTURE B SANIBEL CAUSEV
OWNER:	2 County Hwy Agency	YEAR BUILT:	2007
MAINTAINED BY:	2 County Hwy Agency	SECTION NO.:	12 000 000
STRUCTURE TYPE:	6 P/S Conc Continuous - 02 Stringer/Girder	MP:	0
LOCATION:	2ND STRUC S OF TOLL PLAZA	ROUTE:	00867
SERVICE TYPE ON:	1 Highway	FACILITY CARRIED:	CR-867
SERV TYPE UND:	5 Waterway	FEATURE INTERSECTED:	SAN CARLOS BAY

☐ FUNCTIONALLY OBSOLETE ☐ STRUCTURALLY DEFICIENT

TYPE OF INSPECTION: Regular NBI

DATE FIELD INSPECTION WAS PERFORMED: ABOVE WATER: 11/16/2011 UNDERWATER: 10/26/2011

SUFFICIENCY RATING: 79.0
HEALTH INDEX: 99.30

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

BRIDGE ID: 124115
DISTRICT: 01 Bartow

INSPECTION DATE: 11/16/2011 ZOMJ

BY: VOLKERT, INC.
OWNER: 2 County Hwy Agency
MAINTAINED BY: 2 County Hwy Agency
STRUCTURE TYPE: 6 P/S Conc Continuous - 02 Stringer/Girder
LOCATION: 2ND STRUC S OF TOLL PLAZA
SERVICE TYPE ON: 1 Highway
SERV TYPE UND: 5 Waterway

STRUCTURE NAME: STRUCTURE B SANIBEL CAUSEWAY
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: 11/16/2011 UNDERWATER: 10/26/2011

SMART FLAGS:
None

OVERALL NBI RATINGS:
DECK: 7 Good
SUPERSTRUCTURE: 7 Good
SUBSTRUCTURE: 8 Very Good
PERF. RATING: Good
CHANNEL: 7 Minor Damage
CULVERT: N N/A (NBI)
SUFF. RATING: 79.0
HEALTH INDEX: 99.30

FIELD PERSONNEL / TITLE / NUMBER	INITIALS
Bibelhauser, Anthony - Bridge Inspector (CBI #00359) (lead)	AB
Eorgan, Steve - Bridge Inspector (CBI#00362)	
Hoogland, Keith - Bridge Inspector/Diver (CBI#00341) (lead)	
Tumaniszwili, Alex P. - Diver/Inspector	
Young, Ryan C. - Diver/Inspector	

REVIEWING BRIDGE INSPECTION SUPERVISOR:
Rucks, Edward - CBI (#00273) ER

CONFIRMING REGISTERED PROFESSIONAL ENGINEER:
Teal, Daniel - PROJECT MANAGER (PE # 42097)
VOLKERT, INC.
3409 W. LEMON STREET STE 1
CERTIFICATE OF AUTHORIZATION NO 4641
TAMPA, FL 33609

DANIEL BOWERS TEAL LICENSE No. 42097 STATE OF FLORIDA PROFESSIONAL ENGINEER
JAN 05 2012

SIGNATURE:
DATE:

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All Elements

UNIT: Structure Unit 1 DECKS

ELEMENT/ENV: 12/4 Bare Concrete Deck 80684 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.	80684 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. The type of anchorage for the utility hangers is unknown.

CS1: There is a light accumulation of dirt and debris in the shoulder areas.

The deck top has transverse and diagonal cracks up to 1/64in wide throughout and isolated areas of map cracking less than 1/64in wide - NEW.

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

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All Elements

UNIT: Structure Unit 1 DECKS

ELEMENT/ENV: 300/4 Strip Seal Exp Joint 216 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.	216 lf.

ELEMENT INSPECTION NOTES:

Note: Joints are at Abutments 1 and 14 and Piers 4, 7 and 10.

CS1: The joints are filling with dirt and debris, but are functioning as intended at this time.

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All Elements

UNIT: Structure Unit 1 DECKS

ELEMENT/ENV: 334/4 Metal Rail Coated 3744 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.	3684 lf.
2	There is little or no active corrosion. Surface corrosion has formed or is forming. Protective coating may have minor areas of deterioration.	60 lf.

ELEMENT INSPECTION NOTES:

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

CS2: The rail to post attachment hardware has light surface corrosion on approximately half of the posts - NEW. Refer to Photo 1. REPAIR

Post 1-5 right is missing both lower rail to post attachment nuts and the top two nuts are loose - NEW. Refer to Photo 2. REPAIR

Post 11-8 right is missing one of the lower rail to post attachment nuts - NEW. REPAIR

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All Elements

UNIT: Structure Unit 1 SUPERSTRUCTURE

ELEMENT/ENV: 109/4 P/S Conc Open Girder 7488 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.	7488 lf.

ELEMENT INSPECTION NOTES:

CS1: The beams have multiple hairline diagonal cracks in the lower flange and web up to 8ft. long near the bearing areas, extending up and away from the supports - INCREASED. These cracks vary in length number of cracks and exact location and are predominately in the exterior beams. The cracks on Beam 12-1 were marked with a red paint stick to track the general trend in crack lengths. Refer to Photo 3.

The bottom flanges of the exterior beams typically have short hairline horizontal cracks up to 2ft long throughout the length - NEW.

Several of the poured beam end diaphragms have delaminations up to 10in x 8in - INCREASED.

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All Elements

UNIT: Structure Unit 1 SUPERSTRUCTURE

ELEMENT/ENV: 310/4 Elastomeric Bearing 104 ea. ELEM CATEGORY: Bearings

CONDITION STATE (3)	DESCRIPTION	QUANTITY
1	The element shows little or no deterioration. Shear deformations are correct for existing temperatures.	104 ea.

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All Elements

UNIT: Structure Unit 1 SUBSTRUCTURE

ELEMENT/ENV: 205/4 R/Conc Column 24 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.	24 ea.

ELEMENT/ENV: 207/4 P/S Conc Holl Pile 180 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.	180 ea.

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.

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All Elements

UNIT: Structure Unit 1 SUBSTRUCTURE

ELEMENT/ENV: 220/4 R/C Sub Pile Cap/Ftg 12 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.	12 ea.

ELEMENT/ENV: 234/4 R/Conc Cap 518 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.	518 lf.

ELEMENT/ENV: 393/4 Blkhd Sewl Any Mater 480 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.	480 ft

ELEMENT INSPECTION NOTES:

Note: The element represents the bulkheads constructed with concrete sheet piling and concrete caps.

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All Elements

UNIT: Structure Unit 1 SUBSTRUCTURE

ELEMENT/ENV: 396/4 Other Abut Slope Pro 1800 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.	1760 sf.
2	There may be minor deterioration, random open joints, cracking and weathering. Mortar in joints may show minor deterioration.	40 sf.

ELEMENT INSPECTION NOTES:

Note: This element represents the concrete block mat slope protection.

CS2: The south slope protection is intermittently undermined up to 18in wide x 10in deep along the bulkhead cap - NEW. Refer to Photo 4. REPAIR

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All Elements

UNIT: Structure Unit 1 CHANNEL

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:

The following was noted by the underwater inspectors:
CS2: Some piles have scour holes around them up to 18in. deep.
The groundline slopes up to 4ft. to the west side of the piling and 10ft. out from the piling on several bents.

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All Elements

UNIT: Structure Unit 1 MISCELLANEOUS

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.

CS1: The north and south approach slab joint headers have up to a 1/32in. wide longitudinal crack.

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: The MSE walls were measured back 30ft. at each corner of the structure.

Structure Notes

BRIDGE OWNER: LEE COUNTY

TRAFFIC RESTRICTIONS: Based on the load rating dated 4/21/04, the structure does not require posting. This structure is not posted.

Structure was inventoried from south to north.

This structure replaced Bridge No. 124042.

Power boat with fathometer used for underbridge inspection and groundline measurements.

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INSPECTION NOTES: ZOMJ 11/16/2011

Sufficiency Rating Calculation Accepted by kn110ku-P at 2011-12-13 11:14:44
Sufficiency Rating Calculation Accepted by KNVOLFA-P at 2011-12-06 11:15:13

LOAD CAPACITY EVALUATION:
The findings of this inspection reveal no reason to warrant a new analysis; therefore, the current load rating dated 4/21/04 results still govern.

The NBI Rating for SIA Item 58, Deck, was lowered from 8 to 7 due to the cracking on the deck top.

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PHOTO 1: 334 METAL RAIL COATED

Light surface corrosion on bridge rail to post hardware.

REPAIR RECOMMENDATION:
Spot paint bridge rail to post hardware throughout both bridge rails.

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PHOTO 2: 334 METAL RAIL COATED

Missing bridge rail to post attachment nuts.

REPAIR RECOMMENDATION:
Replace missing rail to post attachment nuts on bridge rail posts 1-5 and 11-8 right and tighten loose nuts on post 1-5.

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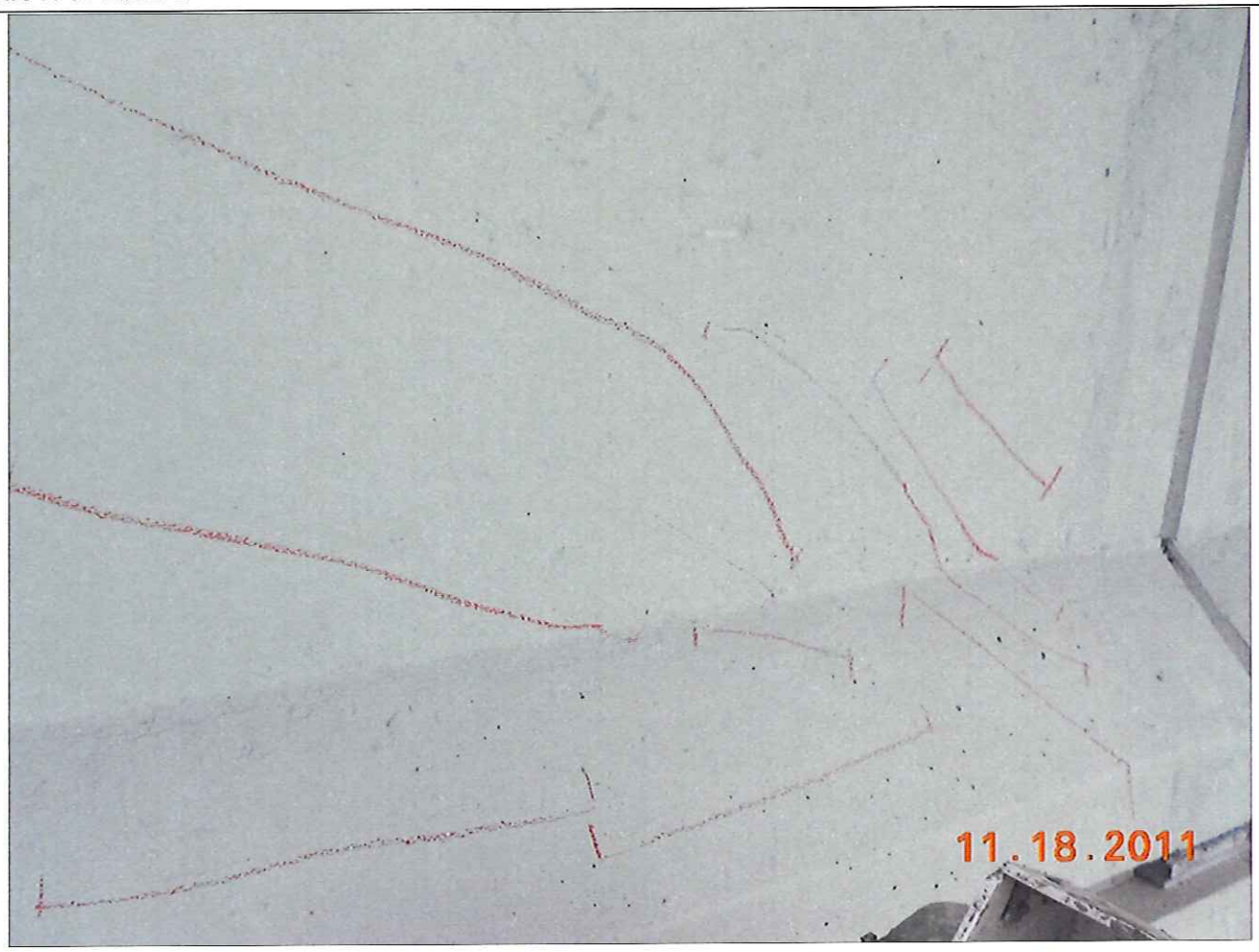

PHOTO 3: 109 P/S CONC OPEN GIRDER

Typical diagonal cracks in the exterior beams (Beam 2-1 marked in red shown).

REPAIR RECOMMENDATION:
None

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PHOTO 4: 396 OTHER ABUT SLOPE PRO

Undermined block mail slope protection along the south bulkhead cap.

REPAIR RECOMMENDATION:
Fill in undermining under south slope protection along the south bulkhead cap.

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Description

Structure Unit Identification

Bridge/Unit Key: 124115 1
Structure Name: STRUCTURE B SANIBEL CAUSEWAY
Description:
Type: M Main

Roadway Identification:

NBI Structure No (8) 124115
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) 026d28'19" Long (17) 082d01'40"

Roadway Traffic and Accidents

Lanes (28) 2 Medians 0 Speed 35 mph
ADT Class ADT Class 4
Recent ADT (29) 19690 Year (30) 2011
Future ADT (114) 20675 Year (115) 2031
Truck % ADT (109) 7
Detour Length (19) 99 mi
Detour Speed 0 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) 99.9 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 ☒

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Structure Identification

Admin Area Lee County
District (2) D1 - Bartow
County (3) (12)Lee
Place Code (4) Sanibel
Location (9) 2ND STRUC S OF TOLL PLAZA
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

Geometrics

Spans in Main Unit (45) 13
Approach Spans (46) 0
Length of Max Span (48) 144 ft
Structure Length (49) 1872 ft
Total Length 1912 ft
Deck Area 80684 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

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)

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) 13.5 ft
Nav Horizontal Clr (40) 110 ft
Min Vert Lift Clr (116) 0 ft
Pier Protection (111) 1 Not Required

NBI Condition Rating

Sufficiency Rating 79
Health Index 99.3
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 4/21/2004 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: 11/16/2011
Inspector: KN738AB-P - Anthony Bibelhauser
Bridge Group: BD523
Primary Type: Regular NBI
Review Required: ☒

Next Inspection Date Scheduled

NBI: 11/16/2013
Element: 11/16/2013
Fracture Critical:
Underwater: 11/16/2013
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	10/26/2011
Other Special	☐	mos	
NBI		24 mos (91)	11/16/2011 (90)

Inspection Resources	
Crew Hours	10
Flagger Hours	0
Helper Hours	0
Snooper Hours	0
Special Crew Hours	3
Special Equip Hours	0

Custom

General Bridge Information

Parallel Bridge Seq	-1
Channel Depth	22.5 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	No electric service
Culvert Type	Not applicable
Maintenance Yard	0
FIHS ON / OFF	No Routes on FIHS
Previous Structure	124042
2nd Previous Structure	
Replacement Structure	

Bridge Load Rating Information

HS20 Govr. Span Length	144 ft
L-Rating Origination	Design Plans
Load Rating Date	04/21/2004
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 ST 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 ST 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	100

Condition

NBI Rating

Channel (61)	7 Minor Damage
Deck (58)	7 Good
Superstructure (59)	7 Good
Substructure (60)	8 Very 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: 11/16/2011ZOMJ

Span Id	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	Qty5	%5	T Qty
Structur	12/4	Bare Concrete Deck	80684	100.	0	.	0	.	0	.	0	.	80684 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. The type of anchorage for the utility hangers is unknown.

CS1: There is a light accumulation of dirt and debris in the shoulder areas.

The deck top has transverse and diagonal cracks up to 1/64in wide throughout and isolated areas of map cracking less than 1/64in wide - NEW.

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

Structur	300/4	Strip Seal Exp Joint	216	100.	0	.	0	.	0	.	0	.	216 lf.

Notes Note: Joints are at Abutments 1 and 14 and Piers 4, 7 and 10.

CS1: The joints are filling with dirt and debris, but are functioning as intended at this time.

Structur	334/4	Metal Rail Coated	3684	98.4	60	1.6	0	.	0	.	0	.	3744 lf.

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

CS2: The rail to post attachment hardware has light surface corrosion on approximately half of the posts - NEW. Refer to Photo 1. REPAIR

Post 1-5 right is missing both lower rail to post attachment nuts and the top two nuts are loose - NEW. Refer to Photo 2. REPAIR

Post 11-8 right is missing one of the lower rail to post attachment nuts - NEW. REPAIR

Structur	109/4	P/S Conc Open Girder	7488	100.	0	.	0	.	0	.	0	.	7488 lf.

Notes CS1: The beams have multiple hairline diagonal cracks in the lower flange and web up to 8ft. long near the bearing areas, extending up and away from the supports - INCREASED. These cracks vary in length number of cracks and exact location and are predominately in the exterior beams. The cracks on Beam 12-1 were marked with a red paint stick to track the general trend in crack lengths. Refer to Photo 3.

The bottom flanges of the exterior beams typically have short hairline horizontal cracks up to 2ft long throughout the length - NEW.

Several of the poured beam end diaphragms have delaminations up to 10in x 8in - INCREASED.

Structur	310/4	Elastomeric Bearing	104	100.	0	.	0	.	0	.	0	.	104 ea.

Notes

Structur	205/4	R/Conc Column	24	100.	0	.	0	.	0	.	0	.	24 ea.

Notes

Structur	207/4	P/S Conc Holl Pile	180	100.	0	.	0	.	0	.	0	.	180 ea.

Notes

Structur	215/4	R/Conc Abutment	70	100.	0	.	0	.	0	.	0	.	70 lf.

Notes

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Elements

Inspection Date: 11/16/2011ZOMJ

Span Id	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	Qty5	%5	T Qty
Structur	220/4	R/C Sub Pile Cap/Ftg	12	100.	0	.	0	.	0	.	0	.	12 ea.
Notes													
Structur	234/4	R/Conc Cap	518	100.	0	.	0	.	0	.	0	.	518 lf.
Notes													
Structur	393/4	Blkhd Sewl Any Mater	480	100.	0	.	0	.	0	.	0	.	480 ft
Notes	Note: The element represents the bulkheads constructed with concrete sheet piling and concrete caps.												
Structur	396/4	Other Abut Slope Pro	1760	97.78	40	2.22	0	.	0	.	0	.	1800 sf.
Notes	Note: This element represents the concrete block mat slope protection. CS2: The south slope protection is intermittently undermined up to 18in wide x 10in deep along the bulkhead cap - NEW. Refer to Photo 4. REPAIR												
Structur	290/4	Channel	0	.	1	100.	0	.	0	.	0	.	1 ea.
Notes	The following was noted by the underwater inspectors: CS2: Some piles have scour holes around them up to 18in. deep. The groundline slopes up to 4ft. to the west side of the piling and 10ft. out from the piling on several bents.												
Structur	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. CS1: The north and south approach slab joint headers have up to a 1/32in. wide longitudinal crack.												
Structur	478/4	MSE Walls	120	100.	0	.	0	.	0	.	0	.	120 lf.
Notes	Note: The MSE walls were measured back 30ft. at each corner of the structure.												

Total Number of Elements: 15

Inspection Information

Inspection Date: 11.16.2011 **Type:** Regular NBI

Inspector: KN738AB-P - Anthony Bibelhauser

Inspection Notes: Sufficiency Rating Calculation Accepted by kn110ku-P at 2011-12-13 11:14:44
Sufficiency Rating Calculation Accepted by KNVOLFA-P at 2011-12-06 11:15:13

LOAD CAPACITY EVALUATION:
The findings of this inspection reveal no reason to warrant a new analysis; therefore, the current load rating dated 4/21/04 results still govern.

The NBI Rating for SIA Item 58, Deck, was lowered from 8 to 7 due to the cracking on the deck top.

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Structure Notes

BRIDGE OWNER: LEE COUNTY

TRAFFIC RESTRICTIONS: Based on the load rating dated 4/21/04, the structure does not require posting. This structure is not posted.

Structure was inventoried from south to north.

This structure replaced Bridge No. 124042.

Power boat with fathometer used for underbridge inspection and groundline measurements.

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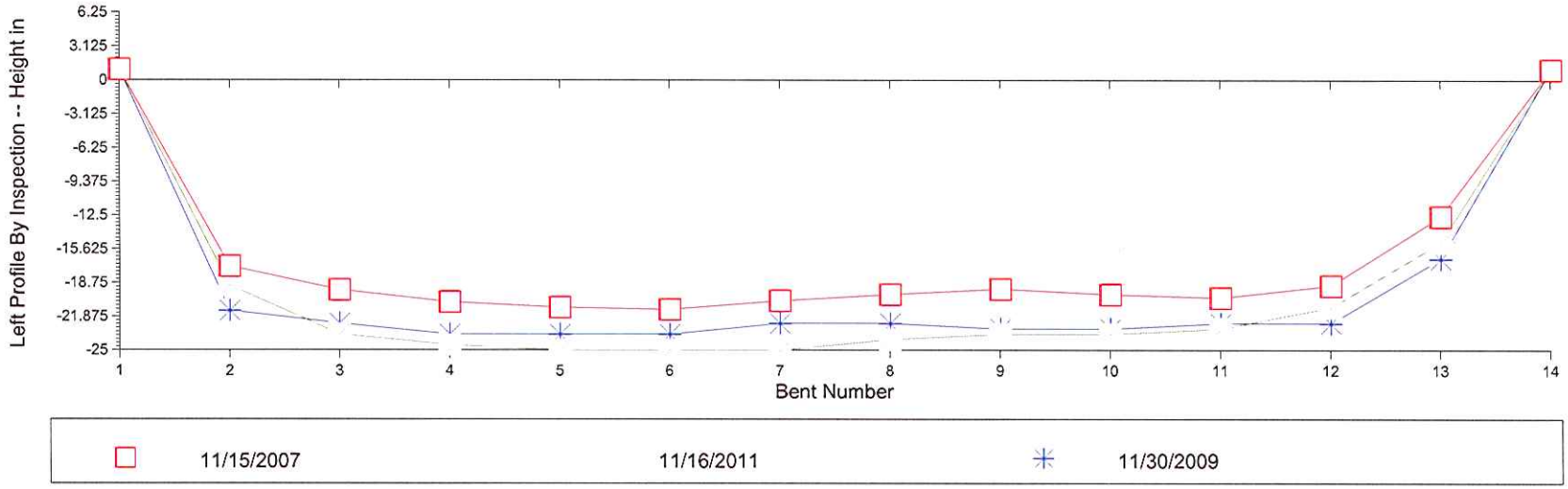
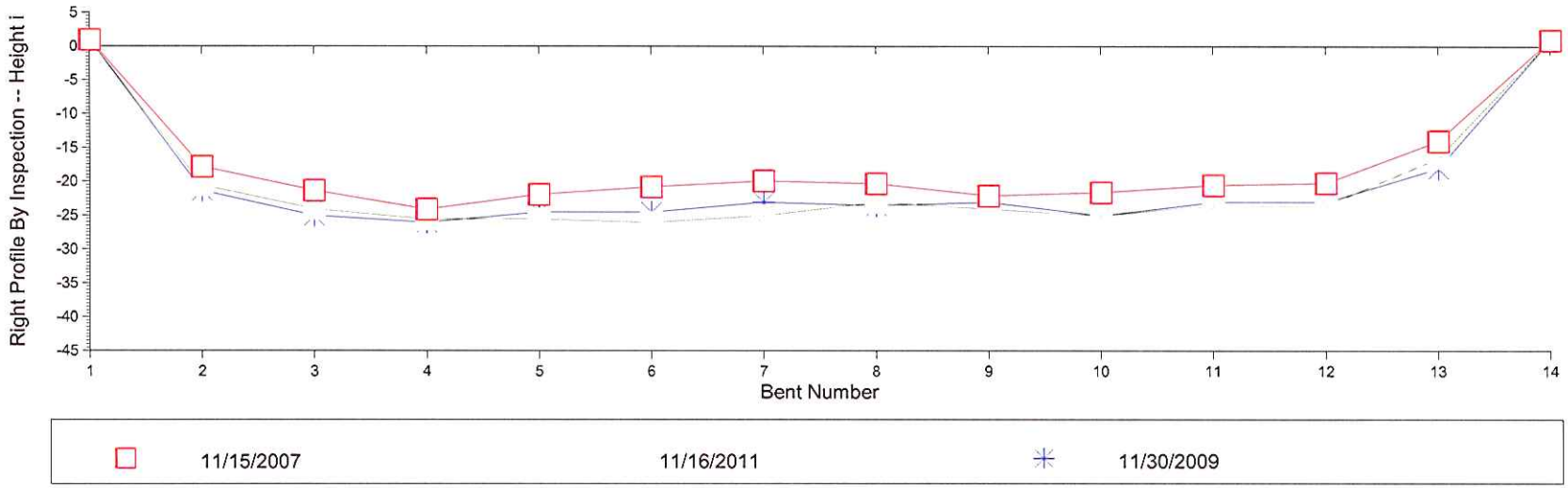
FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM
Bridge Profile Report

REPORT ID: INVT016

Structure #: 124115

DATE PRINTED: 12/28/2011





Profile Data - Numerical Summary

Inspection Date and Key: 11/16/2011 ZOMJ

(All Heights Are In Feet)

Bent #	Left Height	Right Height
1	-1	-1
2	19	20.5
3	23.5	24
4	24.5	25.5
5	25	25.5
6	25	26
7	25	25
8	24	23
9	23.5	24
10	23.5	25
11	23	23.5
12	21	23.5
13	15	16.5
14	-1	-1

Air Temp:

Profile Notes:

Measurements referenced from the top of the footers.
Waterline at footer 2 left and right = 3ft.
Note: A value of -1 indicates that this location is out of the water.

Inspection Date and Key: 11/30/2009 JXNS

1	-1	-1
2	21.3	21.3
3	22.5	25
4	23.5	26
5	23.5	24.5
6	23.5	24.5
7	22.5	23
8	22.5	23.5
9	23	23
10	23	25
11	22.5	23
12	22.5	23

Profile Data - Numerical Summary

Inspection Date and Key: 11/30/2009 JXNS

(All Heights Are In Feet)

Bent #	Left Height	Right Height
13	16.5	18
14	-1	-1

Air Temp: 1

Profile Notes:

Measurements referenced from the top of the footers.
Waterline at Footer 2 left and right = 3.5ft.
Note: A value of -1 indicates that this location was out of the water during this inspection.

Inspection Date and Key: 11/15/2007 NRSE

1	-1	-1
2	17.2	17.8
3	19.4	21.3
4	20.5	24.1
5	21	21.9
6	21.2	20.8
7	20.4	19.9
8	19.8	20.3
9	19.3	22.1
10	19.8	21.6
11	20.1	20.5
12	19	20.2
13	12.6	14
14	-1	-1

Air Temp:

Profile Notes:

Profile Reference: Top of footer 2
Waterline to top of footer 2: 2.2ft Left and Right

Underwater Services, Inc
7930 62ND STREET NORTH, PINELLAS PARK, FL 33781

Routine Underwater Bridge Inspection Report for VOLKERT, INC.

NBI Structure No. (8): **124115 (Structure B / Sanibel)**

Underwater Date (93): 10/26/11

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:	3.0
Max. Depth:	20ft.
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:
Hays, Stephen F.	00438	10/06/2009

Inspection Personnel:

Field Personnel:	Title	C.B.I. No.:	Duty:	Signature:
Hoogland, Keith S.	C.B.I. Diver-Inspector	00341/Lead	Dive	KSH
Tumaniszwili, Alex P.	Diver-Inspector		Dive	
Young, Ryan C.	Diver-Inspector		Tend	

PILING/COLUMNS
ELEMENT: 207 HLW CORE — **180**: ea.

Condition State:	QTY:	Recommended Feasible Action:
CS-1	**180**	**Do Nothing**

NOTE: Piles 2-1, 2-6, 2-11, 4-1, 4-6, 4-11, 6-1, 6-6, 6-11, 8-6, 8-11, 8-12, 9-6, 9-11, 9-12, 13-6, 13-11, 13-12, and all deficiencies were cleaned.

SUBMERGED FOOTER
ELEMENT: 220 R/CONCRETE — **12**: ea.

Condition State:	QTY:	Recommended Feasible Action:
CS-1	**12**	**Do Nothing**

NOTE: Footer 2 and all deficiencies were cleaned.

CHANNEL
ELEMENT: 290 — **1**: ea.

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

The groundline slopes up 4ft. to the west side and 10ft. out from the piling on several bents.
There are local scour holes around several piling up to 18in. deep due to heavy current.

BULKHEAD
ELEMENT: 393 OTHER — **480 lf.**

Condition State:	QTY:	Recommended Feasible Action:
CS-1	**480**	**Do Nothing**

INSPECTION NOTES: Divers inspected one hundred eighty 30in. piling in Bents 2 through 13, Footers, North/South Bulkhead and Channel.
STRUCTURE NOTES: Structure inventoried south to north.

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