

**FLORIDA DEPARTMENT OF TRANSPORTATION  
BRIDGE MANAGEMENT SYSTEM****Inspection/CIDR Report with PDF attachment(s)  
Inspection****Structure ID: 705909****DISTRICT: D5 - Deland****INSPECTION DATE: 3/20/2018 TUUI**

BY:	Ayres Associates	STRUCTURE NAME:	Jupiter Blvd-M-T Canal
OWNER:	4 City/Municipal Hwy Agy	YEAR BUILT:	1975
MAINTAINED BY:	4 City/Municipal Hwy Agy	SECTION NO.:	70 000 207
STRUCTURE TYPE:	5 Prestressed Concrete - 02 Stringer/Girder	MP:	5.408
LOCATION:	1 mi N of Malabar Road	ROUTE:	00000
SERV. TYPE ON:	5 Highway-pedestrian	FACILITY CARRIED:	Jupiter Blvd.
SERV. TYPE UNDER:	5 Waterway	FEATURE INTERSECTED:	Melbourne Tillman Canal

☒ FUNCTIONALLY OBSOLETE☐ STRUCTURALLY DEFICIENT

TYPE OF INSPECTION: Regular NBI

DATE FIELD INSPECTION WAS PERFORMED: ABOVE WATER: 3/20/2018 UNDERWATER: 3/20/2018

SUFFICIENCY RATING: 77.1  
HEALTH INDEX: 99.57

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SERV. TYPE UNDER: 5 Waterway	FEATURE INTERSECTED: Melbourne Tillman Canal

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

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**OVERALL NBI RATINGS:**

DECK: 7 Good	CHANNEL: 7 Minor Damage
SUPERSTRUCTURE: 7 Good	CULVERT: N N/A (NBI)
SUBSTRUCTURE: 7 Good	SUFF. RATING: 77.1
PERF. RATING: 2 - Good	HEALTH INDEX: 99.57

**FIELD PERSONNEL / TITLE / NUMBER:****INITIALS**

Narvaez, Ricardo - Bridge Inspector (CBI #447) (lead)

Ahrens, Charles - Bridge Inspector (CBI #00539)

Hutcheson, Reed - Assistant Bridge Inspector

RSU

\_\_\_\_\_

\_\_\_\_\_

**REVIEWING BRIDGE INSPECTION SUPERVISOR:**

Maslyn, Rick - Bridge Inspector (CBI #00271)

RM

**CONFIRMING REGISTERED PROFESSIONAL ENGINEER:**

Scherer, Michael - Professional Engineer (P.E. #56898) Ayres Associates (C. A. #4356)

8875 Hidden River Pkwy

Suite 200

Tampa FL 33637

SIGNATURE: \_\_\_\_\_

DATE: \_\_\_\_\_



This report contains information relating to the physical security of a structure and depictions of the structure. This information is confidential and exempt from public inspection pursuant to sections 119.071(3)(a) and 119.071(3)(b), Florida Statutes. Only the cover page of this report may be inspected and copied.

# FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

## Inspection/CIDR Report with PDF attachment(s) Inspection

Structure ID: 705909

DISTRICT: D5 - Deland

INSPECTION DATE: 3/20/2018 TUUI

### All Elements

#### DECKS : Decks/Slabs

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	8098 / 3	Conc Deck on PC Panel	4226	98.69	50	1.17	6	0.14	0	.	4282 (SF)
0	1080 / 3	Delamination/Spall/Patched Area	0	.	0	.	6	100	0	.	6 (SF)
0	1130 / 3	Cracking (RC and Other)	0	.	50	100	0	.	0	.	50 (SF)

#### Element Inspection Notes:

8098/3 Note: There is a 13 in. diameter steel utility pipe attached along the right fascia of the structure.

#### Previously Noted:

CS3 = The deck top in Span 1 has several gouges up to 36 in. x 1 in. x 1/2 in. deep.

The underside of Bay 1-1 Panel 8 has a 4 in. x 3 in. x 1-1/2 in. spall with exposed steel in the southeast corner. Refer to Photo 1.

Span 1 left overhang adjacent to Abutment 1 has a 7 in. x 5 in. x 1 in. spall with no exposed steel at a drill hole.

CS2 = The deck top has map cracking up to 1/32 in. wide throughout the structure.

Several of the precast deck panels have transverse cracks in the deck underside up to 1/64 in. wide x various lengths.

#### INCIDENTAL:

#### Curbs / Sidewalks:

The northeast corner of the left curb has an 8 in. x 3 in. x 1-1/2 in. deep spall with no exposed steel.

The southwest corner of the right curb has a spall 5 in. x 4 in. x 1 in. deep with no exposed steel.

The right curb at Abutment 4 north face has an 18 in. x 8 in. x 3/4 in. spall with no exposed steel.

There is a light to moderate accumulation of dirt and debris along each curb.

The utility pipe along the right side of the structure has areas of heavy corrosion and is leaking. Refer to Photo 2. REPAIR

1080/3 Refer to Parent Element

1130/3 Refer to Parent Element

#### DECKS : Joints

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	301 / 3	Pourable Joint Seal	72	52.94	20	14.71	44	32.35	0	.	136 ft
0	2320 / 3	Seal Adhesion	0	.	20	33.33	40	66.67	0	.	60 ft
0	2340 / 3	Seal Cracking	0	.	0	.	4	100	0	.	4 ft

#### Element Inspection Notes:

301/3 Previously Noted:

CS3 = All expansion joints have adhesion failures up to 10 ft. long each. Refer to Photo

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**3. REPAIR**

Bent 2 joint has two cracked and spalled repairs in Lane 2 up to 3 ft. x 3 in. x 1-1/2 in. deep. REPAIR

Bent 3 joint has two repairs with shrinkage cracks and a spalled area 40 in. x 8 in. x 2 in. along Span 2 side of the joint. Refer to Photo 4. REPAIR

CS2 = Abutment 1 and 4 joints have minor adhesion loss with minor vegetation growth in Lane 2.

2320/3 Refer to Parent Element

2340/3 Refer to Parent Element

**MISCELLANEOUS : Channel**

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	8290 / 3	Channel	0	.	1	100	0	.	0	.	1 (EA)
0	9140 / 3	Debris	0	.	1	100	0	.	0	.	1 (EA)

**Element Inspection Notes:**

8290/3 Previously Noted:  
Refer to Element 8396, Other Slope Protection for related comments.

CS2 = There are scattered sand cement bags under the bridge from the channel banks to 10 ft. channel side of the intermediate bents.

There is light drift throughout the channel.

9140/3 Refer to Parent Element

**MISCELLANEOUS : Other Elements**

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	8477 / 3	Other Wingwall/Retaining Wall	66	100	0	.	0	.	0	.	66 ft

**Element Inspection Notes:**

8477/3 Note: This element represents the cinder block walls at the four corners of the structure.

**SUBSTRUCTURE : Substructure**

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	215 / 3	Re Conc Abutment	67	98.53	1	1.47	0	.	0	.	68 ft
0	1080 / 3	Delamination/Spall/Patched Area	0	.	1	100	0	.	0	.	1 ft

**Element Inspection Notes:**

215/3 Previously Noted:  
CS2 = The top edge of Abutment 1 Cap at the east utility has a 10 in. long x 3 in. wide delamination. Refer to Photo 5.

1080/3 Refer to Parent Element

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**SUBSTRUCTURE : Substructure**

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	226 / 3	Pre Conc Pile	0	.	10	100	0	.	0	.	10 (EA)
0	1190 / 3	Abrasion(PSC/RC)	0	.	10	100	0	.	0	.	10 (EA)

**Element Inspection Notes:**

226/3            Previously Noted:  
CS2 = The lower 3 ft. of the piles have scale damage up to 1/16 in. deep.

1190/3          Refer to Parent Element

**SUBSTRUCTURE : Substructure**

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	234 / 3	Re Conc Pier Cap	68	100	0	.	0	.	0	.	68 ft

**Element Inspection Notes:**

234/3            Previously Noted:  
INCIDENTAL:  
Numerous small rocks are on top of Bent 3 cap between Beams 3-2 and 3-3.

**SUBSTRUCTURE : Substructure**

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	8396 / 3	Other Abutment Slope Protection	2518	100	0	.	0	.	0	.	2518 (SF)

**Element Inspection Notes:**

8396/3          Note: This element represents the sand-cement rip rap bags and fabric formed concrete slope protection.

Previously Noted:  
INCIDENTAL:  
The fabric formed concrete slope protection near centerline of the north slope protection at the toe has no undermining present. There are approximately 25 open filter points.

INCIDENTAL:  
There is moderate to heavy vegetation growing on the slope protection at all four corners of the bridge. Refer to Photo 6.

The toe of the fabri-form mat at Abutment 1 is exposed up to 6 in. high within a 15 ft. length near centerline.

**SUPERSTRUCTURE : Bearings**

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	310 / 3	Elastomeric Bearing	24	100	0	.	0	.	0	.	24 each

**Element Inspection Notes:**

310/3          No Notes

**SUPERSTRUCTURE : Superstructure**

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	109 / 3	Pre Opn Conc Girder/Beam	505	100	0	.	0	.	0	.	505 ft

**Element Inspection Notes:**

109/3          No Notes

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**SUPERSTRUCTURE : Superstructure**

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	331 / 3	Re Conc Bridge Railing	253	100	0	.	0	.	0	.	253 ft

**Element Inspection Notes:**

331/3          No Notes

**Total Number of Elements\*: 11**

\*excluding defects/protective systems

**Structure Notes**

BRIDGE OWNER: CITY OF PALM BAY

This structure was inventoried from south to north.

**TRAFFIC RESTRICTIONS:**

Based on the results of the most recent load rating analysis dated 3/11/85, posting is not required. This structure is currently not posted.

As stated in section 3.4 of the Bridge and Other Structures Inspection and Reporting as of 11/24/2009 superstructure unit numbering (Section 3.4.2.2) and substructure unit numbering (Section 3.4.3) are designated NOT BY ORDER IN WHICH THE ELEMENTS WERE CONSTRUCTED AND PUT INTO SERVICE. Plans sheet or drawing in Topic G, Bridge Description and Drawings section of the bridge folder can confirm all references to these elements prior to this date.

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Sufficiency Rating Calculation Accepted by KNAAHR at 4/23/2018 3:07:01 PM

**LOAD RATING EVALUATION:**

This inspection noted no changes in the structure condition that would warrant a new load rating. The load rating dated 3/11/85 appears to still apply.

The lead underwater inspector for the current routine inspection is Sebastian Narvaez (CBI #00447).

The following underwater elements were inspected:

226 Pre Conc Pile - Bents 2 and 3 each with five 18 in. concrete piles.

8290 Channel

**Non-Structural Items:****Graffiti:****Previously Noted:**

There is graffiti on both abutments, both intermediate bent caps, all piles, the north slope and retaining walls. Refer to Photo 7. REPAIR

**Guardrails:****Previously Noted:**

Several guardrail mounted reflectors are either broken or missing throughout the approach guardrails. Refer to Photo 8. REPAIR

**Approach Roadways:****Previously Noted:**

The asphalt at both approach roadways has transverse cracks up to 1/16 in. wide x various lengths.

**Noted this Inspection:**

Minor settlement at approach roadway bridge transition up to 1/2 in. D.

**Striping:****Previously Noted:**

The deck striping is moderate to heavily chipped and worn on the structure but in good condition at both approach roadways. Refer to Photo 9. REPAIR

**FLORIDA DEPARTMENT OF TRANSPORTATION  
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BRIDGE INSPECTION REPORT  
ADDENDUM**

**CONTENTS OF ADDENDUM**

	Bridge Location Map		Sketches and Photos
*	Additional Element Inspection Notes		Recommended Corrective Action
	Load Rating Analysis Summary		Scour Evaluation
*	Posting Photos	*	Fracture Critical Inspections

\* This section is not included in this report.

**PREPARED FOR: FDOT  
BRIDGE OWNER: CITY OF PALM BAY  
PREPARED BY: AYRES ASSOCIATES**

**REPORT IDENTIFICATION**

Bridge Number: 705909 – Regular NBI	Inspection Date: 03/20/2018
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Bridge Name: Jupiter Blvd over Tillman Canal

Facility Carried: Jupiter Blvd

Featured Intersected: Tillman Canal



South Approach



# FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM BRIDGE INSPECTION REPORT

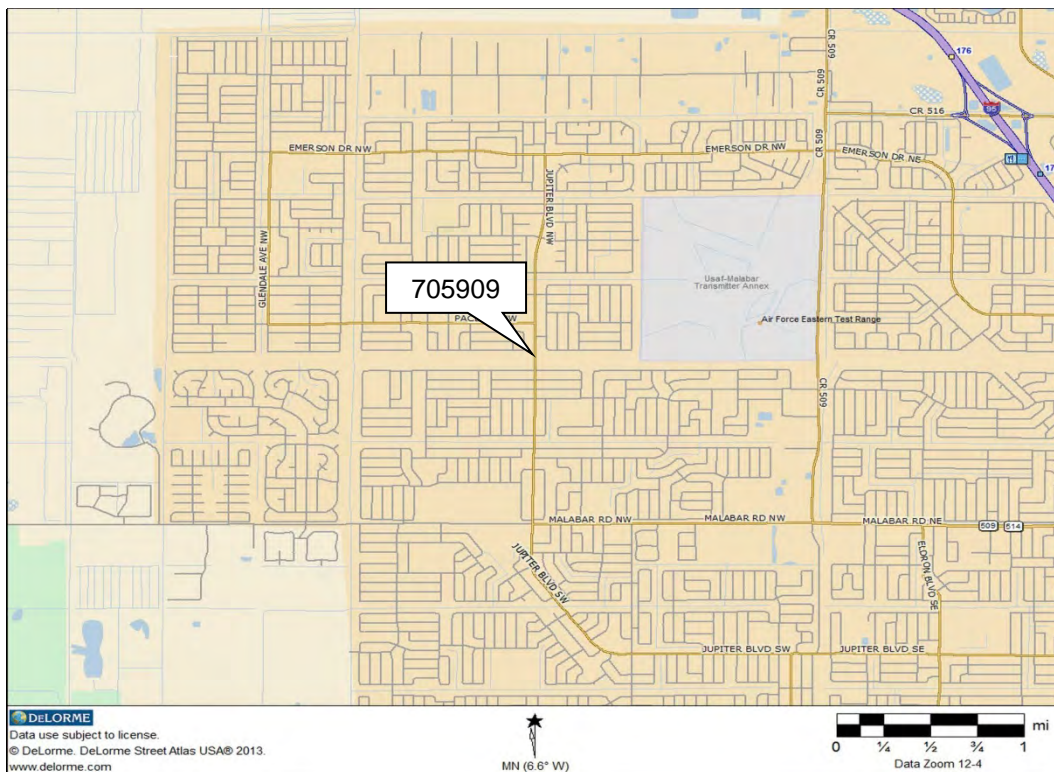
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## BRIDGE LOCATION MAP



West Elevation



Jupiter Blvd over Tillman Canal

1.0 Mile North of Malabar Rd

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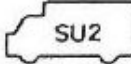
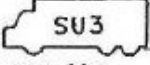
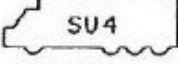
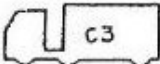
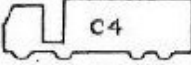
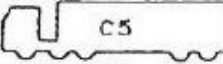
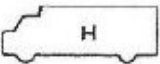
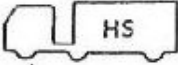
Inspection Date: 03/20/2018

## LOAD RATING ANALYSIS SUMMARY

Bridge No: 705909

## D. LOAD CAPACITY INFORMATION

## GUIDE

LOAD RATING SUMMARY									
Rating Performed By: <u>Jim P. Hall</u> P.E. # <u>23379</u>									
Date of Computations: <u>3-11-85</u> , Computer Program: <u>Arizona</u>									
Loading Classification	TYPE OF LOADING	RATING LEVEL	Moment Capacity of Slab *	Moment Capacity of Beams	Shear Capacity of Beams	Critical Rating		No Posting Req'd.	
 GVW=17T	Inventory		25.9	42.6	36.7	25.9	> 17		
	Operating			47.3	53.1	42	✓		
 GVW=33T	Inventory		38.0	44.4	38.5	38.0	> 33		
	Operating			49.9	55.7	44	✓		
 GVW=35T	Inventory		47.4	43.8	40.1	40.1	> 35		
	Operating			48.7	58.1	44	✓		
 GVW=28T	Inventory		42.7	63.9	58.0	42.7	> 28		
	Operating			71.0	84.0	64	✓		
 GVW=36-636T	Inventory		42.2	61.8	51.7	42.2	> 36.6		
	Operating			68.7	74.9	62	✓		
 GVW=40T	Inventory		46.1	65.3	58.5	46.1	> 40		
	Operating			72.6	84.7	65	✓		
 H	Inventory		H21.0	H38.6	H34.2				
	Operating			H42.9	H49.6				
 HS	Inventory		HS21.0	HS29.6	HS25.0	40.8	✓		
	Operating			HS32.9	HS36.2	53.2	✓		

OTES: 1. Governing span length for Design Load is 40.25' 12.27m ✓

2. Moment ~~XXXX~~ controls for this structure.

\* See attached calculations by service load method.



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## SKETCHES AND PHOTOS



Photo 1: Element 8098: Showing spall with exposed steel Panel 8 in Bay 1-1



Photo 2: Element 8098: Showing heavy corrosion and leaking utility pipe on right side of the structure.



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**SKETCHES AND PHOTOS**



Photo 3: Element 301: Showing typical adhesion failure of expansion joint sealant.



Photo 4: Element 301: Showing spalled area at Bent 3 joint.



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**SKETCHES AND PHOTOS**



Photo 5: Element 215: Showing delamination at top edge of Abutment 1 Cap.



Photo 6: Element 8396: Showing vegetation growth at north slope protection.



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## SKETCHES AND PHOTOS



Photo 7: Inspection Notes: Showing graffiti on bridge underside.



Photo 8: Inspection Notes: Showing broken and missing guardrail mounted reflectors.

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**SKETCHES AND PHOTOS**



Photo 9: Inspection Notes: Heavily chipped and worn deck striping.

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**RECOMMENDED CORRECTIVE ACTION**

8098 Conc Deck on PC Panel

Replace / repair corroded and leaking utility pipe along the right side of the structure.

301 Pourable Joint Seal

Repair all areas where the expansion joint sealant has adhesion loss.

Repair the failed repaired area along Bent 3 joint in Lane 2.

Non-Structural Items:Graffiti

Cover all graffiti.

Guardrails

Replace all broken or missing guardrail reflectors.

Striping

Apply new striping on the bridge deck.



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**SCOUR EVALUATION**

**LEFT SIDE**

		02/08/88	03/02/16	03/20/18	Change
Abutment 1		7.0	7.0	7.0	0.0
Bent 2		23.5	26.2	25.2	1.0
C/L of Channel		24.9	25.3	25.8	-0.5
Bent 3		20.6	21.8	21.3	0.5
Abutment 4		7.0	7.0	6.9	0.1

Waterline at C/L of Channel	20.9	21.2	20.1
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**RIGHT SIDE**

		02/08/88	03/02/16	03/20/18	Change
Abutment 1		7.9	6.7	6.9	-0.2
Bent 2		22.0	23.1	23.1	0.0
C/L of Channel		24.9	24.8	25.6	-0.8
Bent 3		20.9	21.5	22.1	-0.6
Abutment 4		7.3	7.8	7.3	0.5

Waterline at C/L of Channel	20.9	21.2	20.1
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NOTE: - = An increase in degradation.

Blank box = No previous measurement available.

Relative Channel Plots Are Not To Scale.

Any Vertical Curvature Of Datum Point Is Not Reflective In Plot.

The waterline and mudline measurements, in reference to the top of the curb, are provided for future comparison. All measurements are in feet.

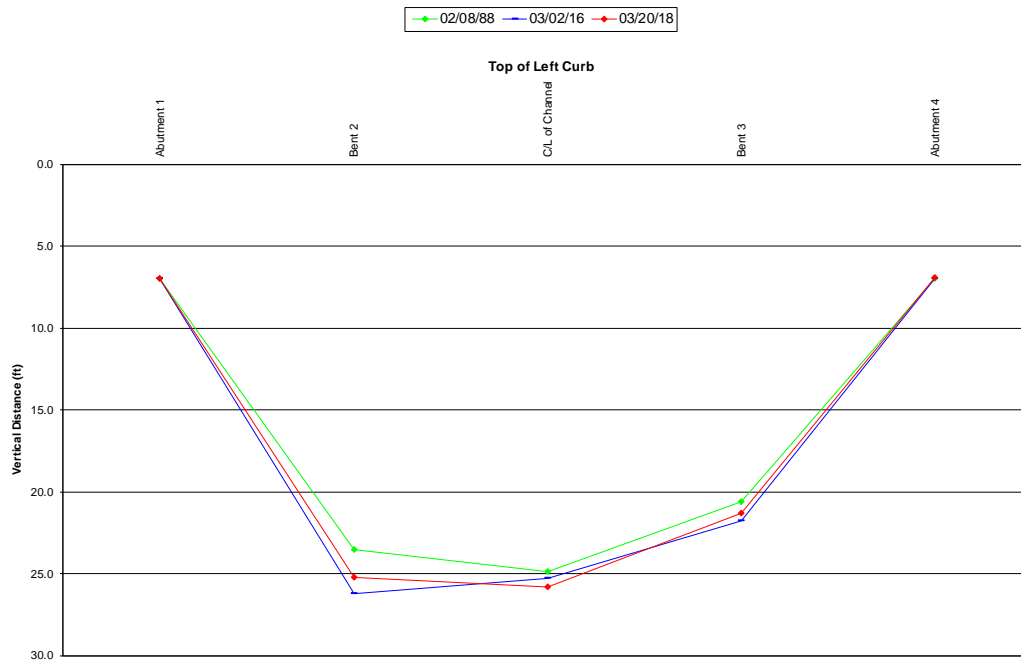
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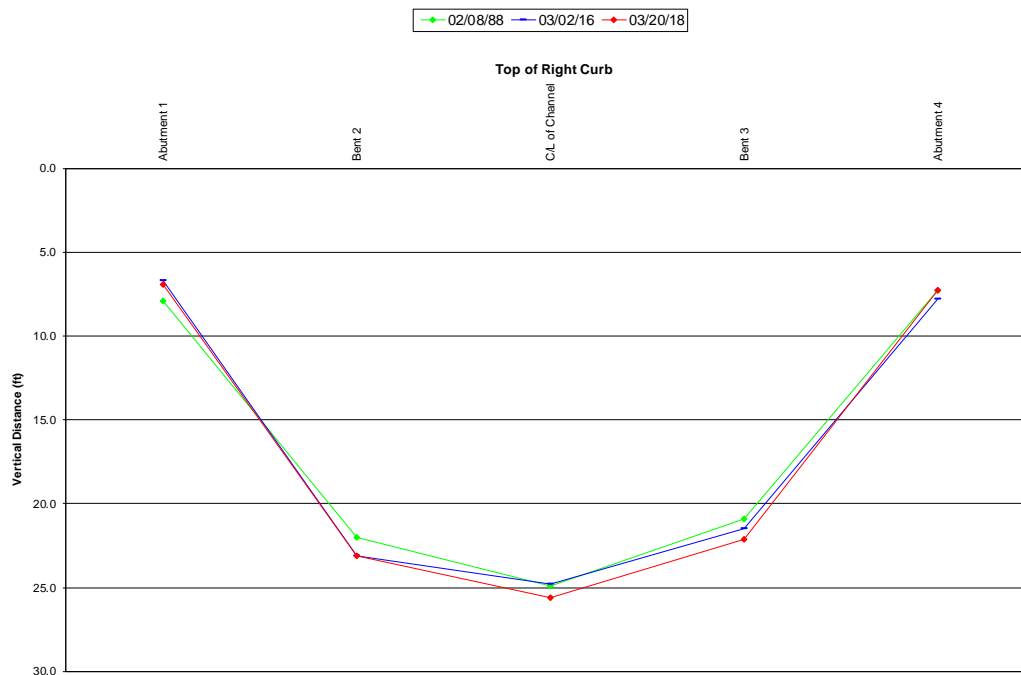
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## SCOUR EVALUATION

### LEFT SIDE SOUNDINGS



### RIGHT SIDE SOUNDINGS



Relative Channel Plots Are Not To Scale.  
Any Vertical Curvature Of Datum Point Is Not Reflective In Plot.

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**SCOUR EVALUATION**



Channel Looking West



Channel Looking East

# FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM BRIDGE INSPECTION REPORT

Bridge No: 705909

Inspection Date: 03/20/2018

## FIELD PREPARATION

### A. Tools and Equipment

Full Size Cargo Van:	Yes: <u>X</u>	No: <u>—</u>	Pick-up Truck:	Yes: <u>—</u>	No: <u>X</u>
Automobile:	Yes: <u>—</u>	No: <u>X</u>	Video:	Yes: <u>—</u>	No: <u>X</u>
Camera:	Yes: <u>X</u>	No: <u>—</u>			
NDT Equipment:	Yes: <u>—</u>	No: <u>X</u>			
NDT Type: N/A					
Binoculars:	Yes: <u>—</u>	No: <u>X</u>			
Diving Performed:	Yes: <u>X</u>	No: <u>—</u>	Max Depth: <u>5.7 ft.</u>	Current: <u>&lt; 1 fps</u>	

Dive Mode: Level II Commercial Scuba

Hand Tools: (i.e. Chipping Hammer, 6' Ruler, etc.)

1. Standard Inspection Tools

3. Flashlights

5. Inspection Hand Tools

2. Chipping Hammers

4. Carpenter Ruler

Other: —

### B. Services

Flag Crew: N/A  
Electrician: N/A

Snooper: N/A  
Other: N/A

### C. Scheduling (Brief Explanation)

Topside with Underwater:

Topside Hours: 2 hrs. Underwater Hours: 1 hrs. Travel Time: 3 hrs.

### D. Site Conditions

Boat Needed: Yes Type of Boat: Jon BoatLocation of Boat Ramp: N/ALengthy Travel Required: NODifficult Access: NOWater Obviously Polluted: NOWater quality is fair (partially meets use): YESStrong Water Current: NOOther: NONE

### E. UNDERWATER ELEMENTS INSPECTED:

226 Pre Conc Pile – Bents 2 and 3 each with five 18 in. concrete piling  
8290 Channel

# FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

REPORT ID: INSP005

## Inspection/CIDR Report with PDF attachment(s)

Structure ID: 705909

CIDR

DATE PRINTED: 5/16/2018

### Description

#### Structure Unit Identification

Bridge/Unit Key: 705909 0  
 Structure Name: Jupiter Blvd-M-T Canal  
 Description: SPANS 1, 2 AND 3  
 Type: M - Main

#### Roadway Identification

NBI Structure No (8): 705909  
 Position/Prefix (5): 1 - Route On Structure  
 Kind Hwy (Rte Prefix): 5 City Street  
 Design Level of Service: 1 Mainline  
 Route Number/Suffix: 00000 / 0 N/A (NBI)  
 Feature Intersect (6): Melbourne Tillman Canal  
 Critical Facility: Not Defense-crit  
 Facility Carried (7): Jupiter Blvd.  
 Mile Point (11): 5.408  
 Latitude (16): 028d00'48.9" Long (17): 080d41'48.2"

#### Roadway Traffic and Accidents

Lanes (28): 2 Medians: 0 Speed: 45 mph  
 ADT Class: 3 ADT Class 3  
 Recent ADT (29): 9633 Year (30): 2014  
 Future ADT (114): 11174 Year (115): 2034  
 Truck % ADT (109): 7  
 Detour Length (19): 2.0 mi  
 Detour Speed: 45 mph  
 Accident Count: -1 Rate:

#### Roadway Classification

Nat. Hwy Sys (104): 0 Not on NHS  
 National base Net (12): 0 - Not on Base Network  
 LRS Inventory Rte (13a): 70 000 207 Sub Rte (13b): 00  
 Functional Class (26): 16 Urban Minor Arterial  
 On Federal Aid System: Yes  
 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): 24.5 ft  
 Horiz. (47): 27.9 ft Roadway (51): 27.9 ft  
 Truck Network (110): 0 Not part of natl netwo  
 Toll Facility (20): 3 On free road  
 Fed. Lands Hwy (105): 0 N/A (NBI)  
 School Bus Route: ☒  
 Transit Route: ☐

#### NBI Project Data

Proposed Work (075A): Not Applicable (P)  
 Work To Be Done By (075B): Not Applicable (P)  
 Improvement Length (076): 0 ft

Improvement Cost (094): \$ 0.00  
 Roadway Improvement Cost (095): \$ 0.00  
 Total Cost (096): \$ 0.00  
 Year of Estimate (097):

#### NBI Rating

Channel (61): 7 Minor Damage  
 Deck (58): 7 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: ☒

# FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

REPORT ID: INSP005

## Inspection/CIDR Report with PDF attachment(s)

Structure ID: 705909

CIDR

DATE PRINTED: 5/16/2018

### Structure Identification

Admin Area: Space Coast  
 District (2): D5 - Deland  
 County (3): (70)Brevard  
 Place Code (4): Palm Bay  
 Location (9): 1 mi N of Malabar Road  
 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): Y - Meets NBI Length  
 Parallel Structure (101): No || bridge exists  
 Temp. Structure (103): Not Applicable (P)  
 Maint. Resp. (21): 4 City/Municipal Hwy Agy  
 Owner (22): 4 City/Municipal Hwy Agy  
 Historic Signif. (37): 5 Not eligible for NRHP

### Structure Type and Material

Curb/Sidewalk (50): Left: 1.9 ft Right: 1.9 ft  
 Bridge Median (33): 0 No median  
 Main Span Material (43A): 5 Prestressed Concrete  
 Appr Span Material (44A): Not Applicable  
 Main Span Design (43B): 02 Stringer/Girder  
 Appr Span Design (44B): Not Applicable

## Appraisal

### Structure Appraisal

Open/Posted/Closed (41): A Open, no restriction  
 Deck Geometry (68): 2 Intolerable - Replace  
 Underclearances (69): N Not applicable (NBI)  
 Approach Alignment (72): 8-No Speed Red thru Curv  
 Bridge Railings (36a): 0 Substandard  
 Transitions (36b): 0 Substandard  
 Approach Guardrail (36c): 1 Meets Standards  
 Approach Guardrail Ends (36d): 0 Substandard  
 Scour Critical (113): 5 Stable w/in footing

### Minimum Vertical Clearance

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

## Schedule

### Current Inspection

Inspection Date: 03/20/2018  
 Inspector: KNAAARN - Ricardo Narvaez  
 Bridge Group: C9J75  
 Alt. Bridge Group:  
 Primary Type: Regular NBI  
 Review Required: ☒

### Geometrics

Spans in Main Unit (45): 3  
 Approach Spans (46): 0  
 Length of Max Span (48): 42.1 ft  
 Structure Length (49): 126.3 ft  
 Total Length: 126.3 ft  
 Deck Area: 4282 sqft  
 Structure Flared (35): 0 No flare

### Age and Service

Year Built (27): 1975  
 Year Reconstructed (106): 0  
 Type of Service On (42a): 5 Highway-pedestrian  
 Under (42b): 5 Waterway  
 Fracture Critical Details: Not Applicable

### Deck Type and Material

Deck Width (52): 33.9 ft  
 Skew (34): 0 deg  
 Deck Type (107): 2 Concrete Precast Panel  
 Surface (108): 0 None  
 Membrane: 0 None  
 Deck Protection: None

### Navigation Data

Navigation Control (38): Permit Not Required  
 Nav Vertical Clr (39): 0 ft  
 Nav Horizontal Clr (40): 0 ft  
 Min Vert Lift Clr (116): 0 ft  
 Pier Protection (111): Not Applicable (P)

### NBI Condition Rating

Sufficiency Rating: 77.1  
 Health Index: 99.57  
 Structural Eval (67): 7 Above Min Criteria  
 Deficiency: Functionally Obsolete

### Minimum Lateral Underclearance

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

### Next Inspection Date Scheduled

NBI: 03/20/2020  
 Element: 03/20/2020  
 Fracture Critical:  
 Underwater: 03/20/2020  
 Other/Special:

# FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

REPORT ID: INSP005

## Inspection/CIDR Report with PDF attachment(s)

Structure ID: 705909

CIDR

DATE PRINTED: 5/16/2018

## Schedule Cont.

### Inspection Types Performed

NBI ☒Element ☒Fracture Critical ☐Underwater ☒Other Special ☐

### Inspection Intervals

#### Required (92)

#### Frequency (92)

#### Last Date (93)

#### Inspection Resources

Fracture Critical ☐

mos

Crew Hours: 4

Underwater ☒

24 mos

03/20/2018

Flagger Hours: 0

Other Special ☐

mos

Helper Hours: 0

NBI

24 mos

(91) 03/20/2018 (90)

Snooper Hours: 0

Special Crew Hours: 3

Special Equip Hours: 0

## Bridge Related

### General Bridge Information

Parallel Bridge Seq:

Channel Depth: 5.7 ft

Radio Frequency: -1

Phone Number:

Exception Date:

Exception Type: Unknown

Accepted By Maint: 01/01/1975

Warranty Expiration: 00/00/0000

Performance Rating: 2 - Good

Bridge Rail 1: Concrete post &amp; beam

Bridge Rail 2: Not applicable-No rail

Electrical Devices: No electric service

Culvert Type: Not applicable

Maintenance Yard: Not FDOT Maintained

FIHS ON / OFF: No Routes on FIHS

Previous Structure:

2nd Previous Structure:

Replacement Structure:

Permitted Utilities: Power ☐ Water ☐ Gas ☐ Fiber Optic ☐ Sewage ☐ Other ☒

### Bridge Load Rating Information

Inventory Type (065): 2 AS Allowable Stress

Operating Type (063): 2 AS Allowable Stress

Original Design Load (031): 5 MS 18 (HS 20)

Date: 03/11/1985

Initials: GH

Load Rating Rev. Recom.:

Load Rating Plans Status: Unknown

Inventory Rating (066): 37.8 tons

Operating Rating (064): 59.2 tons

FL120 Permit Rating: -1.0 tons

HS20/FL120 Max Span Rating: 59.2 tons

Dynamic Impact in Percent: 30 %

Governing Span Length: 40.4 ft

Minimum Span Length:

Distribution Method: AASHTO formula

Load Rating Notes:

### LEGAL LOADS

SU2: 47.3 tons

SU3: 49.4 tons

SU4: 48.7 tons

C3: 71.0 tons

C4: 68.7 tons

C5: 72.6 tons

ST5: -1.0 tons

Posting (070): 5 At/Above Legal Loads

Open/Posted/Closed (041): A Open, no restriction

### FLOOR BEAM (FB)

FB Present: No

FB Span Length, Gov: 0.0 ft

FB Spacing, Gov: 0.0 ft

FB OPR Rating: 0.0 tons

FB SU4 OPR Rating: 0.0 tons

FB FL120 Rating: 0.0 tons

### SEGMENTAL (SEG)

SEG Wing-Span: -1.0 ft

SEG Web-to-Web Span: -1.0 ft

SEG FL120 Transverse: -1.0 tons

SEG Single Axle Transverse: -1.0 tons

SEG Tandem Axle Transverse: -1.0 tons

### Bridge Scour and Storm Information

Pile Driving Record: No pile driving records

Foundation Type: No foundation details

Mode of Flow: Riverine

Rating Scour Eval: Low Risk - Low

Highest Scour Eval: Phase I completed

Scour Evaluation Method:

Scour Recommended I: Stop scour evaluations

Scour Recommended II: No recommendation

Scour Recommended III: No recommendation

Scour Elevation: 999 ft

Action Elevation: 999 ft

Storm Frequency: 999

# FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

REPORT ID: INSP005

Inspection/CIDR Report with PDF attachment(s)

Structure ID: 705909

CIDR

DATE PRINTED: 5/16/2018

**Elements**

Inspection Date: 03/20/2018 TUUI

**DECKS : Decks/Slabs**

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	8098 / 3	Conc Deck on PC Panel	4226	98.69	50	1.17	6	0.14	0	.	4282 (SF)
0	1080 / 3	Delamination/Spall/Patched Area	0	.	0	.	6	100	0	.	6 (SF)
0	1130 / 3	Cracking (RC and Other)	0	.	50	100	0	.	0	.	50 (SF)

**DECKS : Joints**

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	301 / 3	Pourable Joint Seal	72	52.94	20	14.71	44	32.35	0	.	136 ft
0	2320 / 3	Seal Adhesion	0	.	20	33.33	40	66.67	0	.	60 ft
0	2340 / 3	Seal Cracking	0	.	0	.	4	100	0	.	4 ft

**MISCELLANEOUS : Channel**

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	8290 / 3	Channel	0	.	1	100	0	.	0	.	1 (EA)
0	9140 / 3	Debris	0	.	1	100	0	.	0	.	1 (EA)

**MISCELLANEOUS : Other Elements**

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	8477 / 3	Other Wingwall/Retaining Wall	66	100	0	.	0	.	0	.	66 ft

**SUBSTRUCTURE : Substructure**

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	215 / 3	Re Conc Abutment	67	98.53	1	1.47	0	.	0	.	68 ft
0	1080 / 3	Delamination/Spall/Patched Area	0	.	1	100	0	.	0	.	1 ft

**SUBSTRUCTURE : Substructure**

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	226 / 3	Pre Conc Pile	0	.	10	100	0	.	0	.	10 (EA)
0	1190 / 3	Abrasion(PSC/RC)	0	.	10	100	0	.	0	.	10 (EA)

**SUBSTRUCTURE : Substructure**

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	234 / 3	Re Conc Pier Cap	68	100	0	.	0	.	0	.	68 ft

**SUBSTRUCTURE : Substructure**

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	8396 / 3	Other Abutment Slope Protection	2518	100	0	.	0	.	0	.	2518 (SF)

**SUPERSTRUCTURE : Bearings**

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	310 / 3	Elastomeric Bearing	24	100	0	.	0	.	0	.	24 each

**SUPERSTRUCTURE : Superstructure**

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	109 / 3	Pre Opn Conc Girder/Beam	505	100	0	.	0	.	0	.	505 ft

**SUPERSTRUCTURE : Superstructure**

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
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This report contains information relating to the physical security of a structure and depictions of the structure. This information is confidential and exempt from public inspection pursuant to sections 119.071(3)(a) and 119.071(3)(b), Florida Statutes. Only the cover page of this report may be inspected and copied.



# FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

REPORT ID: INSP005

## Inspection/CIDR Report with PDF attachment(s)

Structure ID: 705909

CIDR

DATE PRINTED: 5/16/2018

0	331 / 3	Re Conc Bridge Railing	253	100	0	.	0	.	0	.	253 ft
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**Total Number of Elements\*: 11**

\*excluding defects/protective systems

### Inspection Information

**Inspection Date:** 03/20/2018**Type:** Regular NBI**Inspector:** KNAAARN - Ricardo Narvaez**Inspection Notes:** Sufficiency Rating Calculation Accepted by KNAAHR at 4/23/2018 3:07:01 PM**LOAD RATING EVALUATION:**

This inspection noted no changes in the structure condition that would warrant a new load rating. The load rating dated 3/11/85 appears to still apply.

The lead underwater inspector for the current routine inspection is Sebastian Narvaez (CBI #00447).

The following underwater elements were inspected:

226 Pre Conc Pile - Bents 2 and 3 each with five 18 in. concrete piles.

8290 Channel

**Non-Structural Items:****Graffiti:**

Previously Noted:

There is graffiti on both abutments, both intermediate bent caps, all piles, the north slope and retaining walls. Refer to Photo 7.

REPAIR

**Guardrails:**

Previously Noted:

Several guardrail mounted reflectors are either broken or missing throughout the approach guardrails. Refer to Photo 8. REPAIR

**Approach Roadways:**

Previously Noted:

The asphalt at both approach roadways has transverse cracks up to 1/16 in. wide x various lengths.

**Noted this Inspection:**

Minor settlement at approach roadway bridge transition up to 1/2 in. D.

**Striping:**

Previously Noted:

The deck striping is moderate to heavily chipped and worn on the structure but in good condition at both approach roadways.

Refer to Photo 9. REPAIR

**Inspection Date:** 03/02/2016**Type:** Regular NBI**Inspector:** KNAAAOJ - John O'Grady

# FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

REPORT ID: INSP005

## Inspection/CIDR Report with PDF attachment(s)

Structure ID: 705909

CIDR

DATE PRINTED: 5/16/2018

### Inspection Information

**Inspection Notes:**

Sufficiency Rating Calculation Accepted by KNAAST-P at 2016-03-28 10:35:39

**LOAD RATING EVALUATION:**

This inspection noted no changes in the structure condition that would warrant a new load rating. The load rating dated 3/11/85 appears to still apply.

The lead underwater inspector for the current routine inspection is Charles Ahrens (CBI #00539).

The following underwater elements were inspected:

204 P/S Conc Column - Bents 2 and 3 each with five 18in. concrete piles.  
290 Channel

**Non-Structural Items:**
**Graffiti:**

Previously Noted:

There is graffiti on both abutments, both intermediate bent caps, all piles, the north slope and retaining walls. Refer to Photo 10. REPAIR

**Guardrails:**

Previously Noted:

Several guardrail mounted reflectors are either broken or missing throughout the approach guardrails. Refer to Photo 11. REPAIR

**Approach Roadways:**

Previously Noted:

The asphalt at both approach roadways has transverse cracks up to 1/16in. wide x various lengths.

**Striping:**

Previously Noted:

The deck striping is moderate to heavily chipped and worn on the structure but in good condition at both approach roadways. Refer to Photo 12. REPAIR

**Inspection Date:**

03/04/2014

**Type:** Regular NBI

**Inspector:** KNVOLRO - Rick O'Connor

**Inspection Notes:**
**LOAD RATING EVALUATION:**

This inspection noted no changes in the structure condition that would warrant a new load rating. The load rating dated 3/11/85 appears to still apply.

The lead underwater inspector for the current routine inspection is Victoria Hitch (CBI #00414).

The following underwater elements were inspected:

204 P/S Conc Column - Bents 2 and 3 each with five 18in. concrete piles.  
290 Channel

**Non-Structural Items:**
**Graffiti:**

There is graffiti on both abutments, both caps, all piles, north slope and retaining walls. Refer to Photo 8. REPAIR

**Guardrails:**

Several guardrail mounted reflectors are either broken or missing throughout the approach guardrails. Refer to Photo 9. REPAIR

**Approach Roadways:**

The asphalt at both approach roadways has transverse cracks up to 1/32in. wide - NEW.

**Deck Striping:**

The deck striping is moderate to heavily chipped and worn on the structure but in good condition at both approach roadways - NEW. Refer to Photo 10. REPAIR

**Inspection Date:**

03/21/2012

**Type:** Regular NBI

**Inspector:** KNVOLSH - Scott Hughes

# FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

REPORT ID: INSP005

## Inspection/CIDR Report with PDF attachment(s)

Structure ID: 705909

CIDR

DATE PRINTED: 5/16/2018

### Inspection Information

**Inspection Notes:** Sufficiency Rating Calculation Accepted by KNVOLCW-P at 2012-03-29 14:00:37

#### LOAD RATING EVALUATION:

This inspection noted nothing that warrants a new load rating. The current load rating dated 3/11/85 appears to still apply.

The lead underwater inspector for the current routine inspection is Scott Hughes (CBI #00379).

The following underwater elements were inspected:

204 P/S Conc Column - ten piling in Bents 2 and 3.

#### Non-Structural Items:

##### Graffiti:

There is graffiti on both abutments, both caps, all piles, north slope and retaining walls. Refer to Photo 6. REPAIR

##### Guardrails:

Several guardrail mounted reflectors are either broken or missing throughout the approach guardrails. Refer to Photo 7. REPAIR

**Inspection Date:** 03/31/2010 **Type:** Regular NBI

**Inspector:** KNAAAOJ - John O'Grady

**Inspection Notes:** Sufficiency Rating Calculation Accepted by KNKCRL-P at 2010-06-03 08:22:43

#### Non-Pontis Items:

##### Approach Roadways:

Noted This Inspection:

##### CORRECTIVE ACTION TAKEN:

A new asphalt surface was installed at both approach roadways prior to this inspection.

##### Approach Slopes/Shoulders:

Noted This Inspection:

##### CORRECTIVE ACTION TAKEN:

The approach shoulders have been leveled with new asphalt at all four corners to allow for drainage.

##### Graffiti:

Noted This Inspection:

There is graffiti on both abutments, both caps, all piles, north slope and retaining walls. Refer to photo 7.

##### Guardrails:

Previously Noted:

Several guardrail mounted reflectors are either broken or missing throughout the approach guardrails. Refer to photo 8.

##### Reflectors:

Noted This Inspection:

##### CORRECTIVE ACTION TAKEN:

New object markers have been installed at the southwest, northwest and northeast corners of the structure.

##### Striping:

Noted This Inspection:

##### CORRECTIVE ACTION TAKEN:

New roadway striping was applied across the structure and approach roadways prior to this inspection.

**Inspection Date:** 03/05/2008 **Type:** Regular NBI

**Inspector:** KN238JK - James Kelley

# FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

REPORT ID: INSP005

## Inspection/CIDR Report with PDF attachment(s)

Structure ID: 705909

CIDR

DATE PRINTED: 5/16/2018

### Inspection Information

#### Inspection Notes:

Sufficiency Rating Calculation Accepted by kn238jk-P at 2008-03-31 16:32:52

Non-Pontis Items:

Approach Roadways:

Previously Noted:

The approach roadway asphalt overlays exhibit 1/4in. to 3/8in. wide longitudinal and transverse cracks in various locations.

Noted This Inspection:

The south approach roadway, approximately 30ft. from the structure, has a 15ft. long x 4ft. wide x 2in. area of rutted and crumbling asphalt. Refer to photo 14.

Approach Slopes/Shoulders:

Previously Noted:

The approach shoulders are up to 1ft. higher than the approach roadways, which restricts the drainage of the roadway.

Guardrails:

Previously Noted:

Several guardrail mounted reflectors are either broken or missing throughout the approach guardrails. Refer to photo 15.

Reflectors:

Noted This Inspection:

The southwest, northwest and northeast object markers are leaning. Refer to photo 16.

Corrective Action Taken:

The southeast object marker has been reset.

Striping:

Noted This Inspection:

The roadway striping over the structure is heavily faded. Refer to photo 17.

#### Inspection Date:

03/21/2006

Type: Regular NBI

#### Inspector:

#### Inspection Notes:

Sufficiency Rating Calculation Accepted by kn538pl-P at 2006-04-13 11:03:29

Non-Pontis Items:

Approach Roadways- Previously Noted:

The approach roadway asphalt overlays exhibit 1/4in. to 3/8in. wide longitudinal and transverse cracks in various locations.

Approach Slopes/Shoulders - Previously Noted:

The approach shoulders are up to 1ft. higher than the approach roadways, which restricts drainage of the roadway.

Noted This Inspection:

Corrective Action Taken:

The northeast approach shoulder erosion adjacent to the approach roadway near the northeast guardrail end terminal appears to have been filled in.

Guardrails - Previously Noted:

Several guardrail mounted reflectors are either broken or missing throughout the approach guardrails.

Reflectors - Noted This Inspection:

All four hazard markers are leaning in various directions. Refer to photo 10.

#### Inspection Date:

03/24/2004

Type: Regular NBI

Inspector: KNAAAOJ - John O'Grady

# FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

REPORT ID: INSP005

## Inspection/CIDR Report with PDF attachment(s)

Structure ID: 705909

CIDR

DATE PRINTED: 5/16/2018

### Inspection Information

**Inspection Notes:**

Sufficiency Rating Calculation Accepted by kn538oj-P at 2004-05-03 10:14:56  
Non-PONTIS Items:

Approach Roadway - Previously Noted:

The approach roadway asphalt overlays exhibit 1/4in. to 3/8in. wide longitudinal and transverse cracks in various locations.

Approach Slopes/Shoulders - Previously Noted:

The approach shoulders are up to 1ft. higher than the approach roadways, which restricts drainage of the roadway. The northeast approach shoulder exhibits an area of erosion measuring approximately 14ft. x 3ft. x 8in. deep adjacent to the approach roadway near the northeast guardrail end terminal.

Guardrails - Previously Noted:

Several guardrail mounted reflectors are either broken or missing throughout the approach guardrails.

**Inspection Date:**

03/19/2002

**Type:** Regular NBI

**Inspector:**
**Inspection Notes:**

Sufficiency Rating Calculation Accepted by kn238cn at 6/7/02 10:16:18  
KN538SF inspection comments -  
Structure 705909 -  
Date 3/19/02 - This structure was inventoried from south to north.

Non-PONTIS Items:

Approach Slopes/Shoulders -

- > The approach shoulders are up to 1.0' higher than the approach roadways, which restricts drainage of the roadway.
- > The northeast approach shoulder exhibits an area of erosion measuring approximately 14' L x 3' W x 8" D adjacent to the approach roadway near the northeast guardrail end terminal.

Guardrails -

- > Several guardrail mounted reflectors are either broken or missing throughout the approach guardrails.

Approach Roadway -

- > The approach roadway asphalt overlays exhibit 1/4" to 3/8" wide longitudinal and transverse cracks in various locations.

Reflectors -

- > Type 3 bridge end reflectors have been provided at the corners of the structure and Type 2 object marker reflectors have been provided at the approach ends of the guardrails.

**Inspection Date:**

03/08/2000

**Type:** Regular NBI

**Inspector:**
**Inspection Notes:**

Sufficiency Rating Calculation Accepted by kn538el at 3/29/00 10:29:58  
KN538EL inspection comments -  
Structure 705909 -  
Date 3/8/00 - This structure was inventoried from south to north.

Non-PONTIS Items.

Approach Slopes/Shoulders

The following deficiencies were previously reported 2/10/92 through 3/2/98 and show little or no significant change, unless otherwise noted:

The approach shoulders are up to 1.0' higher than the approach roadways, which restricts drainage of the roadway.

The northeast approach shoulder exhibits an area of erosion measuring approximately 14' L x 3' W x 8" D adjacent to the approach roadway near the northeast guardrail end terminal.

Guardrails

Several guardrail mounted reflectors are either broken or missing throughout the approach guardrails.

Approach Roadway

As previously reported 3/20/96 and 3/2/98, the approach roadway asphalt overlays exhibit 1/4" to 3/8" wide longitudinal and transverse cracks in various locations. Refer to the North Approach Photo in the Addendum.

Reflectors

As previously reported 3/20/96 and 3/2/98, Type 3 bridge end reflectors have not been provided at the corners of the structure and Type 2 object marker reflectors have not been provided at the approach ends of the guardrails.

Previous comments > (none)

**FLORIDA DEPARTMENT OF TRANSPORTATION  
BRIDGE MANAGEMENT SYSTEM**

REPORT ID: INSP005

Structure ID: 705909

**Inspection/CIDR Report with PDF attachment(s)  
CIDR**DATE PRINTED: 5/16/2018

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**Structure Notes**

BRIDGE OWNER: CITY OF PALM BAY

This structure was inventoried from south to north.

**TRAFFIC RESTRICTIONS:**

Based on the results of the most recent load rating analysis dated 3/11/85, posting is not required. This structure is currently not posted.

As stated in section 3.4 of the Bridge and Other Structures Inspection and Reporting as of 11/24/2009 superstructure unit numbering (Section 3.4.2.2) and substructure unit numbering (Section 3.4.3) are designated NOT BY ORDER IN WHICH THE ELEMENTS WERE CONSTRUCTED AND PUT INTO SERVICE. Plans sheet or drawing in Topic G, Bridge Description and Drawings section of the bridge folder can confirm all references to these elements prior to this date.