

**FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR/Bridge Profile Report
Inspection**

Structure ID: 884038

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 10/30/2019 KRCK

BY: TranSystems Corporation Consultants	STRUCTURE NAME: Not recorded
OWNER: 2 County Hwy Agency	YEAR BUILT: 1964
MAINTAINED BY: 2 County Hwy Agency	SECTION NO.: 88 000 000
STRUCTURE TYPE: 1 Reinforced Concrete - 01 Slab	MP: 0.000
LOCATION: AT CR-615 (66TH AVE.)	ROUTE: 00000
SERV. TYPE ON: 1 Highway	FACILITY CARRIED: 61ST./PECAN GROVE
SERV. TYPE UNDER: 5 Waterway	FEATURE INTERSECTED: LATERAL A CANAL

 FUNCTIONALLY OBSOLETE STRUCTURALLY DEFICIENT

TYPE OF INSPECTION: Regular NBI

DATE FIELD INSPECTION WAS PERFORMED: ABOVE WATER: 10/30/2019 UNDERWATER: N/A

SUFFICIENCY RATING: 57.7
HEALTH INDEX: 67.96

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 FEATURE INTERSECTED: LATERAL A 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

TYPE OF INSPECTION: Regular NBI

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OVERALL NBI RATINGS:

DECK: 6 Satisfactory	CHANNEL: 7 Minor Damage
SUPERSTRUCTURE: 6 Satisfactory	CULVERT: N N/A (NBI)
SUBSTRUCTURE: 5 Fair	SUFF. RATING: 57.7
PERF. RATING: Fair	HEALTH INDEX: 67.96

FIELD PERSONNEL / TITLE / NUMBER:

INITIALS

Rivera, Michael - Bridge Inspector (CBI #00547) (lead)
 Linton, Deondre - Assistant Bridge Inspector

REVIEWING BRIDGE INSPECTION SUPERVISOR:

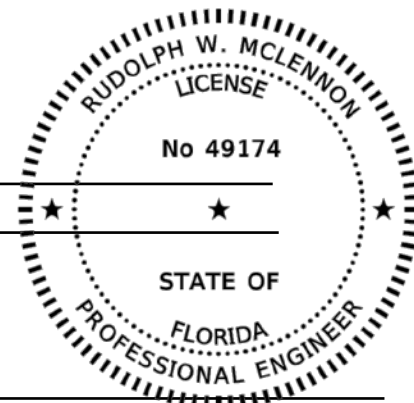
Sojo, Fernando - CBI (#00214)

CONFIRMING REGISTERED PROFESSIONAL ENGINEER:

McLennon, R. Wayne - PE #49174 Transystems Corporation Consultants
 3230 West Commercial Blvd.
 Suite 450 (Auth. No. 00007503)
 Ft. Lauderdale Florida 33309

SIGNATURE: _____

DATE: _____



This report has been digitally signed and sealed by Rudolph W. McLennon, PE on the date adjacent to the seal as required by Rule 61G15-23.004, F.A.C.. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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.

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All Elements

DECKS : Decks/Slabs

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	38 / 3	Re Concrete Slab	545	53.33	455	44.52	22	2.15	0	.	1022 sq.ft
0	1080 / 3	Delamination/Spall/Patched Area	0	.	4	15.38	22	84.62	0	.	26 sq.ft
0	1090 / 3	Exposed Rebar	0	.	1	100	0	.	0	.	1 sq.ft
0	1190 / 3	Abrasion(PSC/RC)	0	.	450	100	0	.	0	.	450 sq.ft

Element Inspection Notes:

38/3 Note: The underside of the west half of Span 1 and the east half of Span 4 are not visible due to the height of the channel slopes.

CS3:

1) The deck top along the top side of the longitudinal joints between the slab units has random edge spalls up to 1ft. L x 3in. W x 1in. D with no exposed steel. Most of the edge spalls have been sealed with hot poured sealant in conjunction with the sealing of the longitudinal joints. The sealant is brittle and deteriorated in the spalls up to 1ft. L x 3in. W x 1in. D throughout (total 25sf.). NO CHANGE. See Photo 38-S01.

2) Slab Unit 2-1 in the north face has a spall/delamination 21in. L x 9in. W x 3/4in. D at Post 2-2 left anchorage (total 2sf.). NO CHANGE. No photo due to being directly behind Post 2-2.

CS2:

3) The deck top of the slab units have abrasive wear 8ft. L x 1/8in. W (total 450sf.). Previously noted cracks were not found. DECREASE.

4) The deck underside at the exterior vertical faces of the slab units have sound patches up to 8in. H x 5in. W over the intermediate bents (total 4sf.). Previously noted as spalls and delaminations. DECREASE.

5) Slab Unit 2-4 in the south face exhibits a spall 4in. H x 4in. W x 1/2in. D with exposed corroded steel, over Bent 2 (total 1sf.). NO CHANGE. See Photo 38-S02.

Secondary:

6) This structure is a one-lane bridge carrying two-way traffic and there is no signage provided to advise of this condition. NO CHANGE.

7) The south curb over Slab Unit 2-4 exhibits a spall 9in. H x 7in. W x 1in. D with exposed corroded steel, adjacent to Railing Post 2-2R. NEW. See Photo 38-S03.

8) There is no object marker at the northwest corner of the structure. NO CHANGE. See Photo 38-S04.

1080/3 Refer to EIN 1, 2, and 4.

1090/3 Refer to EIN 5.

1190/3 Refer to EIN 3.

DECKS : Joints

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	301 / 3	Pourable Joint Seal	6	11.76	0	.	45	88.24	0	.	51 ft
0	2330 / 3	Seal Damage	0	.	0	.	45	100	0	.	45 ft

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Element Inspection Notes:

301/3 Note: The joint at Bents 2, 3 and 4 were evaluated under this element.

CS3:

1) The pourable sealant is cracked and deteriorated up to 15ft. L at random locations (total 45ft.). NO CHANGE.

2330/3 Refer to EIN 1.

MISCELLANEOUS : Channel

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

Element Inspection Notes:

8290/3 Note: The channel slopes under the bridge are steep with no protection.

No deficiencies were noted.

CORRECTIVE ACTION TAKEN:

The previously noted vegetation and buildup in the channel has been removed.

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	215 / 3	Re Conc Abutment	36	100	0	.	0	.	0	.	36 ft

Element Inspection Notes:

215/3 Note: Due to the height of the channel slopes, the end bent caps are not visible. See Photo 215-S01.

No deficiencies were noted.

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	228 / 3	Timber Pile	0	.	3	20	0	.	12	80	15 (EA)
0	1150 / 3	Check/Shake	0	.	3	100	0	.	0	.	3 (EA)

Element Inspection Notes:

228/3 Note: The 12 jacketed piles are in CS4 due to their condition prior to jacketing. The piles at Bents 2 and 4 and Piles 3-1 and 3-5 are jacketed.

CS4:

1) Piles 2-1, 2-2, 2-4 and 4-3 exhibit a split up to 8ft. Hx 1/4in. W, which can be probed up to 4in. D in the northeast quadrant total (total 4 ea.). Previously noted at Piles 2-1, 2-2 and 2-4 only. See Photo 228-S01.

2) The exposed portions of the piles at Bents 2 and 4 and Pile 3-5 above the jackets have weathering checks up to 2ft. H x 1/8in. W (total 6 ea.). NO CHANGE.

CS2:

3) Piles 3-2 through 3-4 have weathering checks up to 3ft. H x 1/8in. W and splits and a wet, soft outer shell 1/8in. D at the waterline (total 3 ea.). NO CHANGE.

Secondary:

4) Pile 2-5 has a 1/8in. W gap between the top of the piles and the cap. The cap is not

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bearing on the pile at this location (total 1 ea.). NO CHANGE. See Photo 228-S02.

5) Pile 3-5 has a 1/8in. W gap between the top of the pile and the cap in the southeast quadrant, 65% bearing (total 1 ea.). NO CHANGE.

6) Pile 4-5 is not centered under the cap; therefore, approximately 50% of the pile is bearing. This appears to be construction related (total 1 ea.). NO CHANGE.

7) The timber brace attached to the west face of Bent 3 has pulled away from the piles up to 5in. and is detached from Pile 3-4. NO CHANGE. See Photo 228-S03.

1150/3 Refer to EIN 3.

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	234 / 3	Re Conc Pier Cap	69	100	0	.	0	.	0	.	69 ft

Element Inspection Notes:

234/3 Note: The concrete toppings over the timber intermediate bent caps were evaluated under this element.

No deficiencies were noted.

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	235 / 3	Timber Pier Cap	69	100	0	.	0	.	0	.	69 ft

Element Inspection Notes:

235/3 Secondary:
1) The timber extension boards at the cap at the intermediate bents have weathering checks and splits up to 3ft. L x 1/4in. W, stains and fungus growth from joint leakage (total 69ft.). NO CHANGE.

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	8298 / 3	Pile Jacket Bare	7	58.33	0	.	5	41.67	0	.	12 (EA)
0	1080 / 3	Delamination/Spall/Patched Area	0	.	0	.	1	100	0	.	1 (EA)
0	1090 / 3	Exposed Rebar	0	.	0	.	2	100	0	.	2 (EA)
0	1130 / 3	Cracking (RC and Other)	0	.	0	.	2	100	0	.	2 (EA)

Element Inspection Notes:

8298/3 Note: The five piles at Bents 2 and 4 have 2ft. diameter concrete jackets. Piles 3-1 and 3-5 have a 3ft. diameter jacket.

CS3:

1) The concrete pile jacket at Piles 2-2 and 4-4 in the west and south faces exhibit voids up to 2ft. L x 7in. H x 7in. D with exposed rebar with approximately 50% section remaining, at the mudline (total 2 ea.). NO CHANGE. See Photo 8298-S01.

2) Pile 2-3 in the south quadrant has a void/area of honeycombing 10in. H x 4in. W x 1in. D at the mudline (total 1 ea.). NO CHANGE.

3) The west quadrant of the pile jacket at Pile 3-1 exhibits vertical cracks up to 3ft. H x 1/4in. W (total 1 ea.). NEW. See Photo 8298-S02.

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4) The east quadrant of the pile jacket at Pile 4-4 exhibits a vertical crack over 3ft. H x 1/8in W (total 1 ea.). NEW. See Photo 8298-S03.

CS1:

5) The jackets have random vertical shrinkage cracks up to 2ft. L x 1/64in. W throughout. NO CHANGE.

1080/3 Refer to EIN 2.

1090/3 Refer to EIN 1.

1130/3 Refer to EIN 3 and 4.

SUPERSTRUCTURE : Superstructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	333 / 3	Other Bridge Railing	101	90.18	1	0.89	10	8.93	0	.	112 ft
0	1020 / 3	Connection	0	.	0	.	4	100	0	.	4 ft
0	1080 / 3	Delamination/Spall/Patched Area	0	.	1	14.29	6	85.71	0	.	7 ft

Element Inspection Notes:

333/3 Note: This element represents the concrete post and timber rail bridge railing. The bridge rail stops 3ft. 6in. short of the bridge end at all four corners.

CS3:

1) Post 1-1 left in the east and west faces exhibits a spalls up to 7in. H x 4in. W x 1in. D with no exposed steel (total 1ft.). Previously noted as one spall. INCREASE. See Photo 333-S01.

2) Post 1-1 right is loose and leaning to the east due to impact damage. Also the timber rail between Post 1-1 and 1-2 right is broken and loose (total 3ft.). NEW. See Photo 333-S02.

3) Post 1-2 left exhibit spall/delamination 2ft. H x 7in. W x 3in. D with exposed corroded rebar (total 1ft.). Previously noted as a delamination only. INCREASE. See Photo 333-S03.

4) Post 2-1 and 2-2 right center anchors are missing (total 1ft.). NEW. See Photo 333-S04.

5) Posts 2-1 left in the west face exhibits a spall/delamination up to 18in. H x 8in. W x 3in. D with exposed corroded steel (total 2ft.). Previously noted at Posts 2-1 left and 2-2 left and 5ft. H x 6in. W. INCREASE. See Photo 333-S05.

6) Post 2-2 left in the bottom east and west faces has a spall 6in. L x 6in. W x 1in. D with exposed corroded rebar (total 1ft.). Previously noted as painted exposed rebar. INCREASE.

7) Post 4-2 right in the east face has a painted spall 8in. L x 5in. W x 2in. D with exposed rebar, at the groundline (total 1ft.). NO CHANGE.

CS2:

8) Post 3-1 right at the west face exhibits a delamination 1ft. H x 8in. W (total 1ft.). NO CHANGE. See Photo 333-S06.

Secondary:

9) There are no approach guardrails at the structure. NO CHANGE. See Photo 333-S07.

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1020/3 Refer to EIN 2 and 4.

1080/3 Refer to EIN 1, 3 and 5 thru 8.

Total Number of Elements*: 9

*excluding defects/protective systems

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Inspector Recommendations

<u>UNIT: 0</u>	<u>SUPERSTRUCTURE</u>		
<u>ELEMENT/ENV:</u>	<u>333 / 3 Other Bridge Railing</u>	<u>ELEM CATEGORY:</u>	<u>Superstructure</u>
CONDITION STATE			PRIORITY
1 , 2 , 3	MMS Quantity: 1 lf Element Estimated Quantity: 1 ft		3
WORK ORDER RECOMMENDATION: Install approach guardrails at all four corners of structure.			
1 , 2 , 3	MMS Quantity: 1 lf Element Estimated Quantity: 6 ft		3
WORK ORDER RECOMMENDATION: Repair spalls and delamination in Posts 1-1L/R 1-2L 2-2L 3-1R and 4-2R.			
1 , 2 , 3	MMS Quantity: 1 lf Element Estimated Quantity: 1 ft		3
WORK ORDER RECOMMENDATION: Install missing center anchors for Posts 2-1 and 2-2 right.			
1 , 2 , 3	MMS Quantity: 1 lf Element Estimated Quantity: 5 ft		3
WORK ORDER RECOMMENDATION: Repair loose and leaning Post 1-1 right and broken and loose timber railing between Posts 1-1 and 1-2 right.			

Structure Notes

BRIDGE OWNER: INDIAN RIVER COUNTY

Structure inventoried from west to east.

The inventory photos were last updated on 10/19/2017.

This structure is Functionally Obsolete due to a "Deck Geometry" (Item 68) with a code rating of 3. The code rating of 3 is the highest possible rating due to this being a 1 Lane, 2 Way Traffic structure with the current ADT.

INSPECTION NOTES: **KRCK** **10/30/2019**

Sufficiency Rating Calculation Accepted by KNTCCRP at 12/12/2019 08:27:00 AM

TRAFFIC RESTRICTIONS: This structure currently requires no weight restriction posting as per the results of the most recent load analysis dated 04/26/1996. Our inspection did not reveal significant deterioration to suggest the need for a new load rating analysis.

LOAD CAPACITY EVALUATION:

Since the current load rating dated 04/26/1996, there is no indication that deterioration, geometric changes or additional dead load have occurred that would warrant a new load rating analysis. This only applies to this inspection dated 10/30/2019 per R. Wayne McLennon, P.E..

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SOUTH ELEVATION

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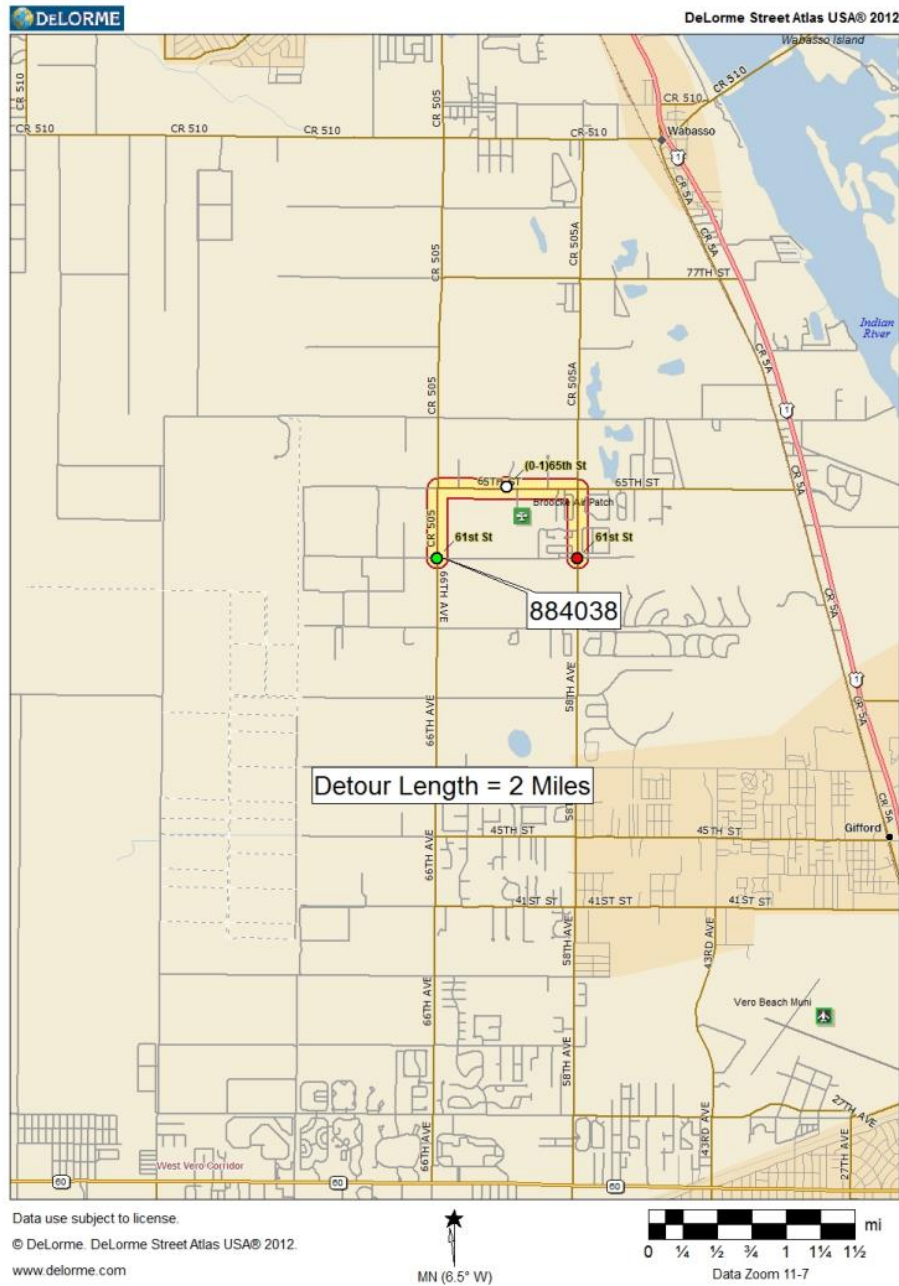
WEST APPROACH LOOKING EAST

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LOCATION MAP

61st Street over Lateral A Canal - At CR-615 (66th Avenue)

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FORM 850-010-06
MAINTENANCE - 0693
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
D: LOAD CAPACITY INFORMATION

1. **BRIDGE DATA:**
 Bridge Number 884038
 STR Type Main [BMS Item B1(43)] 101
 Date 04-26-96
 STR Type APR [BMS Item B2(44)] 000

2. **POSTING DATE:**
 Posted YES If yes, Existing
 Restrictions 20T
 BMS Item BR(41) P
 Posting Needed NO If Yes, Proposed
 Restrictions _____
 BMS Item H11(70) 5
 BMS Item H7(31) 1

3. **ANALYSIS DATA:**

4. **Method of Analysis:**
 Load Factor
 Working Stress

5. **Analysis System:**
 BARS
 SALOD
 BRUFEM
 Load Test
 Other _____

6. **Controlling Member Analyzed:**

Material:
 Steel
 Concrete
 Cast in Place
 Precast
 Prestressed
 Post Tensioned
 Timber
 Other _____

Span:
 Simple
 Continuous
 Frame

Slab:
 Non-Composite
 Composite

7. **Load Rating Summary Table:**

C. Analysis Based On:
 Design Drawings
 As-Built Record Plans
 Shop Drawings
 Field Measurement
 Catalogs
 Sample Testing
 Other existing data _____

D. Data Stored:
 District Office
 Central Office
 Microfilm
 Bridge Owner
 Materials Test Lab
 Other _____

Function:
 Slab
 Stringer
 Floor Beam
 Girder
 Culvert
 Truss

Substructure:
 Bent Construction
 Piling
 Cap
 Pier Construction
 Piling
 Footing
 Column
 Cap

Shape:
 Rolled
 Built-up Welded
 Built-up Riveted
 Box Shape
 AASHTO Girders
 Other slab _____

VEHICLE TYPE	TONS	OPR RATING	OPR FACTOR	SPAN NO.	SPAN LENGTH	CONTR. MEMBER	M OR V	LLDF
SU2	17.00	28.1	1.65	1	14.17	1.00	M	1.00
SU3	33.00	38.6	1.17	1	14.167	1.00	M	1.00
SU4	35.00	37.3	1.07	1	14.17	1.00	M	1.00
C3	28.00	46.2	1.65	1	14.17	1.00	M	1.00
C4	36.60	42.9	1.17	1	14.17	1.00	M	1.00
C5	40.00	46.8	1.17	1	14.17	1.00	M	1.00
ST5	40.00	56.3	1.41	1	14.167	1.00	M	1.00
HS20	36.00	40.9	1.14	1	14.17	1.00	M	1.00

HS 20 Inventory Rating 24.5 Rating Factor .681 Impact Factor .300

Comments:
MEMBER 1 IS A REINFORCED CONCRETE SLAB UNIT WITH 4 SIMPLE SPANS OF 14.167 FT. EACH

Computations:
 Performed By R. OGLESBY Date 04-26-96
 Checked By H. KWOH Date 04-26-96
 Reviewed By _____ Date 04-26-96
 Responsible Engineer: SHUAN H. KWOH Date 04-26-96
 P.E. # 20208

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LOAD RATING ANALYSIS SUMMARY

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Photo 38-S01 (Unit 0: Re Concrete Slab)

Spalls filled with sealant in the deck top along the top side of the longitudinal joints between Slab Unit 2-3 and 2-4. Joint sealant is deteriorated at random locations.

REPAIR RECOMMENDATION:

Repair spalls and deteriorated joint sealant in the deck top along the top side of the longitudinal joints between the slab units.

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Photo 38-S02 (Unit 0: Re Concrete Slab)

Spall with exposed corroded rebar in the south face of Slab Unit 2-4 over Bent 2.

REPAIR RECOMMENDATION:

Repair spall in the south face of Slab Unit 2-4 over Bent 2.

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Photo 38-S03 (Unit 0: Re Concrete Slab)

Spall with exposed corroded steel in the south curb over Slab Unit 2-4, adjacent to Railing Post 2-2R.

REPAIR RECOMMENDATION:

Repair spall in the south curb over Slab Unit 2-4 adjacent to Railing Post 2-2R.

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Photo 38-S04 (Unit 0: Re Concrete Slab)

No object marker at the northwest corner of the structure.

REPAIR RECOMMENDATION:

Install object marker at the northwest corner of the structure.

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Photo 301-S01 (Unit 0: Pourable Joint Seal)

Cracked and deteriorated joint seal at the right end at Bent 2.

REPAIR RECOMMENDATION:

Repair cracked and deteriorated joint seals throughout the bridge.

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Photo 228-S01 (Unit 0: Timber Pile)

Split in the northeast quadrant of Pile 4-3.

REPAIR RECOMMENDATION:

Repair splits and checks in the exposed portions of the timber piles.

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INSPECTION DATE: 10/30/2019 KRCK



Photo 228-S02 (Unit 0: Timber Pile)

Gap between the top of Pile 2-5 and the cap.

REPAIR RECOMMENDATION:

Install shims between the between the top of Piles 2-5 and 3-5 and the cap.

FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR/Bridge Profile Report
Inspection

Structure ID: 884038

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 10/30/2019 KRCK



Photo 228-S03 (Unit 0: Timber Pile)

Pulled away timber brace attached to the west face of Bent 3 from the piles is detached from Pile 3-4.

REPAIR RECOMMENDATION:

Repair the timber brace attached to the west face of Bent 3.

FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR/Bridge Profile Report
Inspection

Structure ID: 884038

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 10/30/2019 KRCK



Photo 8298-S01 (Unit 0: Pile Jacket Bare)

Void/spall with exposed rebar and section loss in the south quadrant at the pile jacket of Pile 2-2 at the mudline.

REPAIR RECOMMENDATION:

Repair voids in the pile jackets at Piles 2-2 and 4-4 in the west and south faces at the mudline.

FLORIDA DEPARTMENT OF TRANSPORTATION
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Inspection

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DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 10/30/2019 KRCK



Photo 8298-S02 (Unit 0: Pile Jacket Bare)

Vertical crack in the west quadrant at the pile jacket of Pile 3-1.

REPAIR RECOMMENDATION:
None.

FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR/Bridge Profile Report
Inspection

Structure ID: 884038

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 10/30/2019 KRCK



Photo 8298-S03 (Unit 0: Pile Jacket Bare)

Vertical crack in the east quadrant at the pile jacket of Pile 4-4.

REPAIR RECOMMENDATION:
None.

FLORIDA DEPARTMENT OF TRANSPORTATION
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Inspection/CIDR/Bridge Profile Report
Inspection

Structure ID: 884038

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 10/30/2019 KRCK



Photo 333-S01 (Unit 0: Other Bridge Railing)

Spalls with no exposed steel in the left and west faces of Post 1-1 left.

REPAIR RECOMMENDATION:

Repair spalls and delamination in Posts 1-1L/R 1-2L 2-2L 3-1R and 4-2R.

FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR/Bridge Profile Report
Inspection

Structure ID: 884038

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 10/30/2019 KRCK



Photo 333-S02 (Unit 0: Other Bridge Railing)

Loose and leaning Post 1-1 right due to impact damage with broken and loose timber railing between Post 1-1 and 1-2 right.

REPAIR RECOMMENDATION:

Repair loose and leaning Post 1-1 right and broken and loose timber railing between Posts 1-1 and 1-2 right.

FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR/Bridge Profile Report
Inspection

Structure ID: 884038

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 10/30/2019 KRCK



Photo 333-S03 (Unit 0: Other Bridge Railing)

Spall/delamination with exposed corroded rebar in Post 1-2 left.

REPAIR RECOMMENDATION:

Repair spalls and delamination in Posts 1-1L/R 1-2L 2-2L 3-1R and 4-2R.

FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR/Bridge Profile Report
Inspection

Structure ID: 884038

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 10/30/2019 KRCK



Photo 333-S04 (Unit 0: Other Bridge Railing)

Missing center anchors for Post 2-1 and 2-2 right.

REPAIR RECOMMENDATION:

Install missing center anchors for Posts 2-1 and 2-2 right.

FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR/Bridge Profile Report
Inspection

Structure ID: 884038

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 10/30/2019 KRCK



Photo 333-S05 (Unit 0: Other Bridge Railing)

Spall/delamination with exposed corroded steel in the west face of Post 2-1 left.

REPAIR RECOMMENDATION:

Repair spalls and delamination in Posts 1-1L/R 1-2L 2-2L 3-1R and 4-2R.

FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR/Bridge Profile Report
Inspection

Structure ID: 884038

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 10/30/2019 KRCK



Photo 333-S06 (Unit 0: Other Bridge Railing)

Delamination in the west face of Post 3-1 right.

REPAIR RECOMMENDATION:

Repair spalls and delamination in Posts 1-1L/R 1-2L 2-2L 3-1R and 4-2R.

**FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR/Bridge Profile Report
Inspection**

Structure ID: 884038

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 10/30/2019 KRCK



Photo 333-S07 (Unit 0: Other Bridge Railing)

No approach guardrails at the structure.

REPAIR RECOMMENDATION:

Install approach guardrails at all four corners of structure.

**FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR/Bridge Profile Report
Inspection**

Structure ID: 884038

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 10/30/2019 KRCK



NORTH CHANNEL

**FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR/Bridge Profile Report
Inspection**

Structure ID: 884038

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 10/30/2019 KRCK



SOUTH CHANNEL

**FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM**

**Inspection/CIDR/Bridge Profile Report
CIDR**

REPORT ID: INSP005

Structure ID: 884038

DATE PRINTED: 12/12/2019

Description

Structure Unit Identification

Bridge/Unit Key: 884038 0
Structure Name:
Description: MAIN SPAN 1
Type: M - Main

Roadway Identification

NBI Structure No (8): 884038
Position/Prefix (5): 1 - Route On Structure
Kind Hwy (Rte Prefix): 4 County Hwy
Design Level of Service: 1 Mainline
Route Number/Suffix: 00000 / 0 N/A (NBI)
Feature Intersect (6): LATERAL A CANAL
Critical Facility: Not Defense-crit
Facility Carried (7): 61ST./PECAN GROVE
Mile Point (11): 0
Latitude (16): 027d42'16.2" Long (17): 080d27'44.3"

Roadway Classification

Nat. Hwy Sys (104): 0 Not on NHS
National base Net (12): 0 - Not on Base Network
LRS Inventory Rte (13a): 88 000 000 Sub Rte (13b): 00
Functional Class (26): 09 Rural Local
Federal Aid System: OFF
Defense Hwy (100): 0 Not a STRAHNET hwy
Direction of Traffic (102): 3 1-lane Br for 2-way
Emergency:

NBI Project Data

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

NBI Rating

Channel (61): 7 Minor Damage
Deck (58): 6 Satisfactory
Superstructure (59): 6 Satisfactory
Substructure (60): 5 Fair

Roadway Traffic and Accidents

Lanes (28): 1 Medians: 0 Speed: 35 mph
ADT Class: 2 ADT Class 2
Recent ADT (29): 101 Year (30): 2019
Future ADT (114): 200 Year (115): 2041
Truck % ADT (109): 2
Detour Length (19): 2.0 mi
Detour Speed: 35 mph
Accident Count: -1 Rate:

Roadway Clearances

Vertical (10): 99.99 ft Appr. Road (32): 18.4 ft
Horiz. (47): 15.8 ft Roadway (51): 15.8 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:

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

Culvert (62): N N/A (NBI)
Waterway (71): 7 Above Minimum
Unrepaired Spalls: -1 sq.ft.
Review Required:

FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

Inspection/CIDR/Bridge Profile Report

REPORT ID: INSP005

Structure ID: 884038

CIDR

DATE PRINTED: 12/12/2019

Structure Identification

Admin Area: Indian River County
 District (2): D4 - Ft. Lauderdale
 County (3): (88)Indian River
 Place Code (4): No city involved
 Location (9): AT CR-615 (66TH AVE.)
 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): 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: 0.6 ft Right: 0.6 ft
 Bridge Median (33): 0 No median
 Main Span Material (43A): 1 Reinforced Concrete
 Appr Span Material (44A): Not Applicable
 Main Span Design (43B): 01 Slab
 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): 0 Substandard
 Approach Guardrail Ends (36d): 0 Substandard
 Scour Critical (113): 8 Stable Above 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: 10/30/2019
 Inspector: KNTCCMR - Michael Rivera
 Bridge Group: C9S64
 Alt. Bridge Group:
 Primary Type: Regular NBI
 Review Required:

Geometrics

Spans in Main Unit (45): 4
 Approach Spans (46): 0
 Length of Max Span (48): 15.1 ft
 Structure Length (49): 60.1 ft
 Total Length: 60.1 ft
 Deck Area: 1022 sqft
 Structure Flared (35): 0 No flare

Age and Service

Year Built (27): 1964
 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): 17 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: 57.7
 Health Index: 67.96
 Structural Eval (67): 5 Above Min Tolerable
 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: 10/30/2021
 Element: 10/30/2021
 Fracture Critical:
 Underwater:
 Other/Special:
 Inventory Photo Update Due: 10/30/2027

**FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM**

Inspection/CIDR/Bridge Profile Report

REPORT ID: INSP005

Structure ID: 884038

CIDR

DATE PRINTED: 12/12/2019

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	<input type="checkbox"/>	mos		Crew Hours: 8
Underwater	<input type="checkbox"/>	mos		Flagger Hours: 0
Other Special	<input type="checkbox"/>	mos		Helper Hours: 0
NBI		24 mos (91)	10/30/2019 (90)	Snooper Hours: 0
				Special Crew Hours: 0
				Special Equip Hours: 0

Bridge Related

General Bridge Information

Parallel Bridge Seq:		Bridge Rail 1: Combination not defined
Channel Depth: 2.8 ft		Bridge Rail 2: Not applicable-No rail
Radio Frequency: -1		Electrical Devices: No electric service
Phone Number:		Culvert Type: Not applicable
Exception Date:		Maintenance Yard: Not FDOT Maintained
Exception Type: Unknown		FIHS ON / OFF:
Accepted By Maint: 01/01/1964		Previous Structure:
Warranty Expiration: 00/00/0000		2nd Previous Structure:
Performance Rating: Fair		Replacement Structure:
Permitted Utilities: Power <input type="checkbox"/> Water <input type="checkbox"/> Gas <input type="checkbox"/> Fiber Optic <input type="checkbox"/> Sewage <input type="checkbox"/> Other <input type="checkbox"/>		

Bridge Load Rating Information

Inventory Type (065): 1 LF Load Factor	Inventory Rating (066): 24.5 tons
Operating Type (063): 1 LF Load Factor	Operating Rating (064): 40.9 tons
Original Design Load (031): 1 M 9 (H 10)	FL120 Permit Rating: -1.0 tons
Date: 04/26/1996	HS20/FL120 Max Span Rating: 40.9 tons
Initials: SHK	Dynamic Impact in Percent: 30 %
Load Rating Rev. Recom.:	Governing Span Length: 14.1 ft
Load Rating Plans Status: Unknown	Minimum Span Length:
	Distribution Method: AASHTO formula
Load Rating Notes:	

LEGAL LOADS

SU2: 28.1 tons
 SU3: 38.6 tons
 SU4: 37.3 tons
 C3: 46.2 tons
 C4: 42.9 tons
 C5: 46.8 tons
 ST5: 56.3 tons
 Posting (070): 5 At/Above Legal Loads
 Open/Posted/Closed (041): A Open, no restriction

POSTING

Recom. SU Posting: 99 tons
 Recom. C Posting: 99 tons
 Recom. ST5 Posting: 99 tons
 Actual SU Posting: 99 tons
 Actual C Posting: 99 tons
 Actual ST5 Posting: 99 tons
 Actual Blanket Posting: 99 tons
 Emergency Vehicle: 1 EV inapplicable

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 Transverse HL93 Operating: -1.00 RF

Bridge Scour and Storm Information

Pile Driving Record: Unknown	Scour Recommended I: Stop scour evaluations
Foundation Type: Unknown	Scour Recommended II: No recommendation
Mode of Flow: Riverine	Scour Recommended III: No recommendation
Rating Scour Eval: Low Risk - Low	Scour Elevation: 999 ft
Highest Scour Eval: Phase I completed	Action Elevation: 999 ft
Scour Evaluation Method: Unknown – Eval Not Comp	Storm Frequency: 999

**FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM**

**Inspection/CIDR/Bridge Profile Report
CIDR**

REPORT ID: INSP005

Structure ID: 884038

DATE PRINTED: 12/12/2019

Elements

Inspection Date: 10/30/2019 KRCK

DECKS : Decks/Slabs

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	38 / 3	Re Concrete Slab	545	53.33	455	44.52	22	2.15	0	.	1022 sq.ft
0	1080 / 3	Delamination/Spall/Patched Area	0	.	4	15.38	22	84.62	0	.	26 sq.ft
0	1090 / 3	Exposed Rebar	0	.	1	100	0	.	0	.	1 sq.ft
0	1190 / 3	Abrasion(PSC/RC)	0	.	450	100	0	.	0	.	450 sq.ft

DECKS : Joints

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	301 / 3	Pourable Joint Seal	6	11.76	0	.	45	88.24	0	.	51 ft
0	2330 / 3	Seal Damage	0	.	0	.	45	100	0	.	45 ft

MISCELLANEOUS : Channel

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

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	215 / 3	Re Conc Abutment	36	100	0	.	0	.	0	.	36 ft

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	228 / 3	Timber Pile	0	.	3	20	0	.	12	80	15 (EA)
0	1150 / 3	Check/Shake	0	.	3	100	0	.	0	.	3 (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	69	100	0	.	0	.	0	.	69 ft

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	235 / 3	Timber Pier Cap	69	100	0	.	0	.	0	.	69 ft

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	8298 / 3	Pile Jacket Bare	7	58.33	0	.	5	41.67	0	.	12 (EA)
0	1080 / 3	Delamination/Spall/Patched Area	0	.	0	.	1	100	0	.	1 (EA)
0	1090 / 3	Exposed Rebar	0	.	0	.	2	100	0	.	2 (EA)
0	1130 / 3	Cracking (RC and Other)	0	.	0	.	2	100	0	.	2 (EA)

SUPERSTRUCTURE : Superstructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	333 / 3	Other Bridge Railing	101	90.18	1	0.89	10	8.93	0	.	112 ft
0	1020 / 3	Connection	0	.	0	.	4	100	0	.	4 ft
0	1080 / 3	Delamination/Spall/Patched Area	0	.	1	14.29	6	85.71	0	.	7 ft

Total Number of Elements*: 9

*excluding defects/protective systems

**FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM****Inspection/CIDR/Bridge Profile Report
CIDR**

REPORT ID: INSP005

Structure ID: 884038

DATE PRINTED: 12/12/2019

Inspection Information**Inspection Date:** 10/30/2019**Type:** Regular NBI**Inspector:** KNTCCMR - Michael Rivera**Inspection Notes:** Sufficiency Rating Calculation Accepted by KNTCCRP at 12/12/2019 08:27:00 AM

TRAFFIC RESTRICTIONS: This structure currently requires no weight restriction posting as per the results of the most recent load analysis dated 04/26/1996. Our inspection did not reveal significant deterioration to suggest the need for a new load rating analysis.

LOAD CAPACITY EVALUATION:

Since the current load rating dated 04/26/1996, there is no indication that deterioration, geometric changes or additional dead load have occurred that would warrant a new load rating analysis. This only applies to this inspection dated 10/30/2019 per R. Wayne McLennon, P.E..

Structure Notes

BRIDGE OWNER: INDIAN RIVER COUNTY

Structure inventoried from west to east.

The inventory photos were last updated on 10/19/2017.

This structure is Functionally Obsolete due to a "Deck Geometry" (Item 68) with a code rating of 3. The code rating of 3 is the highest possible rating due to this being a 1 Lane, 2 Way Traffic structure with the current ADT.

Schedule Notes

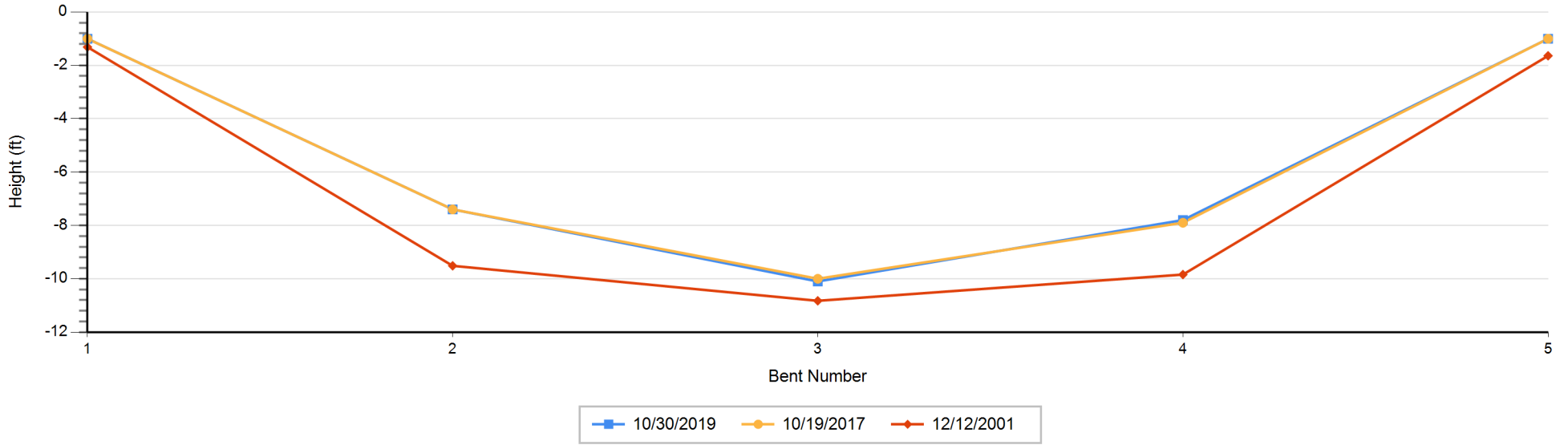
FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

Inspection/CIDR/Bridge Profile Report

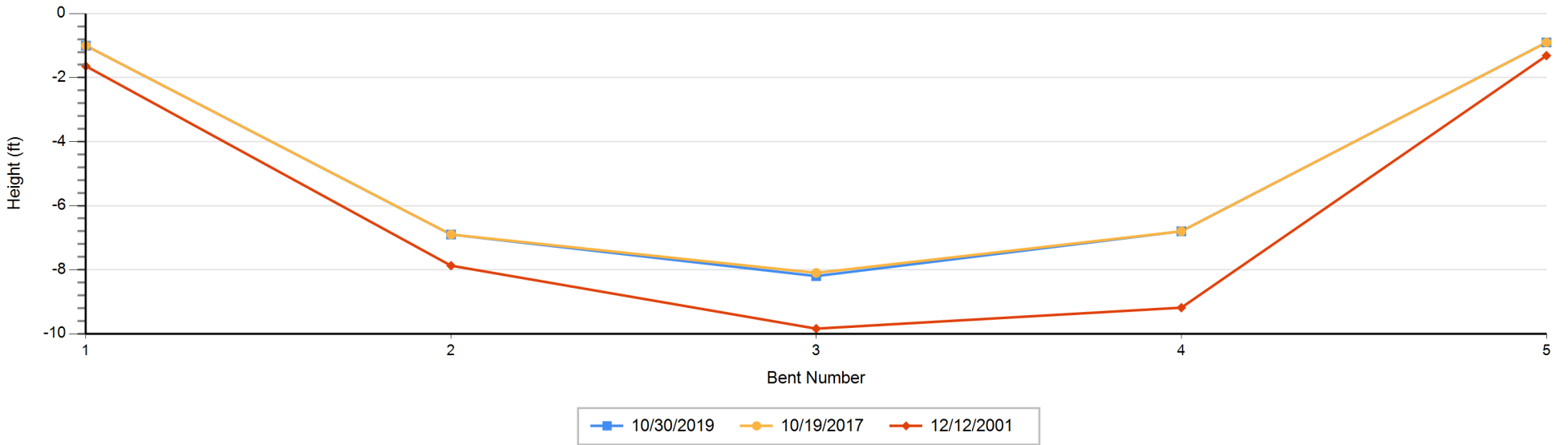
Bridge Profile

DATE PRINTED: 12/12/2019 4:08:31 PM

Left Profile by Inspection



Right Profile by Inspection



REPORT ID : INSP005
 Structure ID : 884038

FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR/Bridge Profile Report
Bridge Profile

DATE PRINTED: 12/12/2019 4:08:31 PM

Profile Data - Numerical Summary

Inspection Date and Key: 10/30/2019	KRCK	Bent #	Left Height	Right Height	(All Heights are in Feet)
		1	1.00	1.00	
		2	7.40	6.90	
		3	10.10	8.20	
		4	7.80	6.80	
		5	1.00	0.90	

Air Temp: 80

Profile Notes:

Measurements were referenced from the top of the curbs.
 Waterline at Bent 3: Left and Right = 7.3ft.

Inspection Date and Key: 10/19/2017	BEVR	Bent #	Left Height	Right Height	(All Heights are in Feet)
		1	1.00	1.00	
		2	7.40	6.90	
		3	10.00	8.10	
		4	7.90	6.80	
		5	1.00	0.90	

Air Temp: 86

Profile Notes:

Measurements were referenced from the top of the curbs.
 Waterline at Bent 3: Left and Right = 7.4ft.

FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR/Bridge Profile Report
Bridge Profile

DATE PRINTED: 12/12/2019 4:08:31 PM

Profile Data - Numerical Summary

Inspection Date and Key:	UKGK	Bent #	Left Height	Right Height	(All Heights are in Feet)
12/12/2001	UKGK	1	1.31	1.64	
		2	9.51	7.87	
		3	10.83	9.84	
		4	9.84	9.19	
		5	1.64	1.31	

Air Temp: 1

Profile Notes:

Measurements taken from top of bridge rail