

**FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR/Bridge Profile Report with PDF attachment(s)
Inspection**

Structure ID: 890152

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 6/28/2018 UPOY

BY: Transystems Corporation Consultants	STRUCTURE NAME: New Roosevelt
OWNER: 1 State Highway Agency	YEAR BUILT: 1997
MAINTAINED BY: 1 State Highway Agency	SECTION NO.: 89 015 000
STRUCTURE TYPE: 6 P/S Conc Continuous - 21 Segmental Box Girder	MP: 0.118
LOCATION: 1mi S of SR-707 on SR-5	ROUTE: 00001
SERV. TYPE ON: 5 Highway-pedestrian	FACILITY CARRIED: NB US-1 / SR-5
SERV. TYPE UNDER: 8 Hwy-waterway-RR	FEATURE INTERSECTED: St Lucie River / SR-707

 FUNCTIONALLY OBSOLETE STRUCTURALLY DEFICIENT

TYPE OF INSPECTION: Regular NBI

DATE FIELD INSPECTION WAS PERFORMED: ABOVE WATER: 6/28/2018 UNDERWATER: 6/26/2018

SUFFICIENCY RATING: 97.8
HEALTH INDEX: 97.08

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- 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: N N/A (NBI)	CHANNEL: N N/A (NBI)
SUPERSTRUCTURE: 7 Good	CULVERT: N N/A (NBI)
SUBSTRUCTURE: 6 Satisfactory	SUFF. RATING: 97.8
PERF. RATING: Performance Rating not applicable or not calculable.	HEALTH INDEX: 97.08

FIELD PERSONNEL / TITLE / NUMBER:

Noel, Benjamin - Team Leader (CBI#00537) (lead)
 Gutierrez, Carlos - Bridge Inspector (CBI#00492)
 Narvaez, Ricardo - Lead Bridge Inspector/Diver (CBI #447)
 Seelig, Justin - Assistant Bridge Inspector/Diver
 Fishman, David - Assistant Bridge Inspector/Diver
 Wichmann, Tanner - Assistant Bridge Inspector/Diver

INITIALS

BN Digitally signed by BN Date: 2018.08.21 09:57:50 -0400

REVIEWING BRIDGE INSPECTION SUPERVISOR:

Rodriguez, Natalie - Bridge Inspector (PE #70945)

NMR Digitally signed by NMR Date: 2018.08.21 09:57:33 -0400

CONFIRMING REGISTERED PROFESSIONAL ENGINEER:

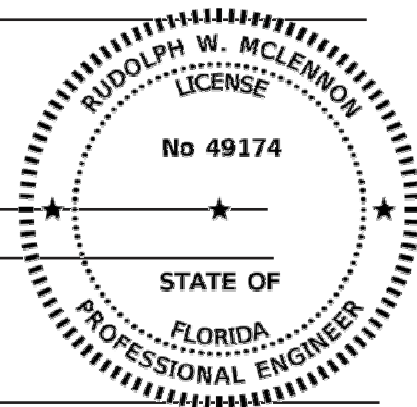
McLennon, R. Wayne - PE #49174 Transystems Corporation Consultants
 3230 West Commercial Blvd.
 Suite 450 (Auth. No. 00007503)
 Ft. Lauderdale Florida 33309

Rudolph W McLennon

SIGNATURE: _____

DATE: _____

2018.08.21 09:57:50 -04'00'



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.

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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	12 / 4	Re Concrete Deck									278463 sq.ft
0											

Element Inspection Notes:

12/4

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Secondary:

3) There is dirt and debris on the sidewalk in Span 15. NO CHANGE.

PREVIOUS RECOMMENDED CORRECTIVE ACTION:

Repaint the white striping in Spans 1 to 3 and 20. (Item 3)

CORRECTIVE ACTION EVALUATION:

Completed. Completion Date 7/26/17. Site # 8068310.

DECKS : Joints

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	303 / 4	Assem Jnt With Seal									305 ft
0											

Element Inspection Notes:

303/4

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Secondary:

2) The armor plates at the joint over Bent 21 exhibits areas of corrosion up to 3in. L x 3in. W in random locations (total 5ft.). NO CHANGE.

The previously noted dirt in the joints mainly at the shoulders have been removed.

MISCELLANEOUS : Channel

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

Element Inspection Notes:

8290/4 Underwater Inspection:

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[REDACTED]

Secondary:

Note: Column lights were inspected as part of this element and no deficiencies were noted. No work order was previously issued.

[REDACTED]

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	215 / 4	Re Conc Abutment	[REDACTED]								125 ft
0	1120 / 4	Efflorescence/Rust Staining	[REDACTED]								5 ft
0	[REDACTED]	[REDACTED]	[REDACTED]								

Element Inspection Notes:

215/4

[REDACTED]

Secondary:

3) The top side of End Bent 1 cap exhibits accumulation of pigeon excrement. NO CHANGE.

[REDACTED]

1120/4

Refer to EIN 2.

[REDACTED]

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	220 / 4	Re Conc Pile Cap/Ftg	[REDACTED]								580 ft

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SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	8387 / 4	PS Fender/Dolphin	137	95.14	0	.	7	4.86	0	.	144 ft
0	1080 / 4	Delamination/Spall/Patched Area	0	.	0	.	7	100	0	.	7 ft

Element Inspection Notes:

8387/4

Underwater Inspection:

Note: The fender system is shared with Bridge Number 890151 SB. Only Sections 10 thru 18 of the North and South Fender Systems were inspected and quantified for this structure. Refer to fender sketches for layout and deficiency locations.

C/S-3

North Fender:

1) The following piles have spalls up to 14in. H x 6in. W x 3in. D with exposed steel at the top of the pile; however, the exposed steel has been epoxy coated since the previous inspection and only minor corrosion is bleeding thru at S14P1, S14P3, S15P2 and S17P4 (total 4ft.). NO CHANGE.

South Fender:

2) The following piles have spalls up to 14in. H x 6in. W x 3in. D with exposed steel at the top of the pile, however, the exposed steel has been epoxy coated since the previous inspection and only minor corrosion is bleeding thru at C16P3, C17P3, and S17P3 (total 3ft.). NO CHANGE.

Secondary:

North and South Fender:

3) The cable clamps for the top and bottom wire ropes have heavy corrosion. NO CHANGE.
4) The pile attachment bolts for the bottom 3 wales typically have heavy corrosion. NO CHANGE.
5) All cable wraps exhibit moderate to heavy corrosion. NO CHANGE.

South Fender:

6) The bottom wale in Section 15 has moderate external decay and evidence of minor marine borer attack. NO CHANGE.
7) The ends of the bottom wale in Sections 13, 14 and 16 have light external decay and evidence of minor marine borer attack. NO CHANGE

PREVIOUS CORRECTIVE ACTION:

1) Repair the corroded saddle clamps throughout the structure. (Item 3)
2) Repair the connection bolts for the bottom 3 wales. (Item 4)
3) Repair the corroded cable wraps. (Item 5)

CORRECTIVE ACTION EVALUATION:

1) Not Completed. No work order was previously issued.
2) Not Completed. No work order was previously issued.
3) Not Completed. No work order was previously issued.

1080/4

Refer to EIN 1 and 2.

SUPERSTRUCTURE : Bearings

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	314 / 4	Pot Bearing									18 each
0											

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Element Inspection Notes:

314/4

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

SUPERSTRUCTURE : Superstructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	104 / 4	Pre Clsd Box Girder	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	4567 ft
0	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
0	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

Element Inspection Notes:

104/4 See Element Inspection Notes following the Photos.

[REDACTED]

[REDACTED]

SUPERSTRUCTURE : Superstructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	331 / 4	Re Conc Bridge Railing	9131	100	0	.	0	.	0	.	9131 ft

Element Inspection Notes:

331/4 No deficiencies were noted.

The previously noted corrosion on the metal portion of the east bridge rail at the joint of End Bent 1 and Bent 6 have been painted.
The previously noted misplaced handhole cover for the 4th light pole from the north (44B-I) in Span 18 has been installed.

SUPERSTRUCTURE : Superstructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	333 / 4	Other Bridge Railing	4566	99.98	0	.	1	0.02	0	.	4567 ft
0	1080 / 4	Delamination/Spall/Patched Area	0	.	0	.	1	100	0	.	1 ft

Element Inspection Notes:

333/4 C/S-3

1) There is a spall 11in. L x 4in. H x 1in. D with painted exposed steel on the east face of the parapet at End Bent 1. Corrosion previously noted. DECREASE.

PREVIOUS RECOMMENDED CORRECTIVE ACTION:

Repair spall with corroded exposed steel on the east face of railing at End Bent 1. (Item 1)(Snooper)

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CORRECTIVE ACTION EVALUATION:

Partially Completed. The exposed steel has been painted. Completion Date 03/21/17. Site # 8107152.

1080/4 Refer to EIN 1.

SUPERSTRUCTURE : Superstructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	8398 / 4	Drainage System - Other	1	100	0	.	0	.	0	.	1 (EA)

Element Inspection Notes:

8398/4 CS1:
1) The drainage inlets exhibit debris throughout the length of the bridge. NO CHANGE.
See Photo 8398-S01.

SUPERSTRUCTURE : Superstructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	8580 / 4	Navigational Lights	1	100	0	.	0	.	0	.	1 (EA)

Element Inspection Notes:

8580/4 Note: This element quantifies the navigational lights on the bridge rail (1), fender systems (4) and clearance gauge light (1) for a total of 6 lights. Refer to fender system layout sketch for locations.

No deficiencies were noted.

Total Number of Elements*: 16

*excluding defects/protective systems

Structure Notes



2) There is a fishing pier below the bridge at the south end.

The inventory photos were last updated on 06/04/2014.

The following underwater elements were inspected during the 2018 Routine NBI Inspection:

- 8290 Channel (1 ea.)
- 220 Re Conc Pile Cap/Ftg (305 ft.)
- 226 Pre Conc Pile [REDACTED]
- 8387 P/S Fender/Dolphin (144 ft.)
- 8580 Navigational Lights (1 ea.)
- 234 Re Conc Pier Cap (Fishing Pier) (210 ft.)

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INSPECTION NOTES: **UPOY** **6/28/2018**

Sufficiency Rating Calculation Accepted by kn853lm-P at 8/21/2018 9:38:26 AM

LOAD CAPACITY EVALUATION:

Since the current load rating dated 03/19/2001, 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 06/28/2018 per R. Wayne McLennon, P.E..

ROUTINE INSPECTION FISHING PIER (06/28/18):

Notes: The following information is for the fishing pier located at the south end of both bridges.

The Fishing Pier starts on the south shore between Bridge Number 890151 SB and 890152 NB. It extends north from the shoreline and ends at Pier 6 Footings.

- 1) Several railing posts between the 4th and 6th joint from the south exhibit corrosion at the support plate. NO CHANGE.
- 2) There is a missing vertical pipe at the northeast corner of the pier at Pier 5 Footing. NO CHANGE.

ROUTINE UNDERWATER INSPECTION - FISHING PIER:

Element 226 - Pre Conc Pile Qty = 24ea.

Bents 1 thru 12 have two 14in. square concrete piles each.

Cleaning Log: Piles 5-1, 5-2 and 7-1 were cleaned.

No deficiencies were noted.

Element 234 - Re Conc Pier Cap Qty = 210lf.

Bent Caps 1 thru 12 are each 17ft.-6in. long.

Cleaning Log: Several strips at random locations were cleaned.

No deficiencies were noted.

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East Elevation

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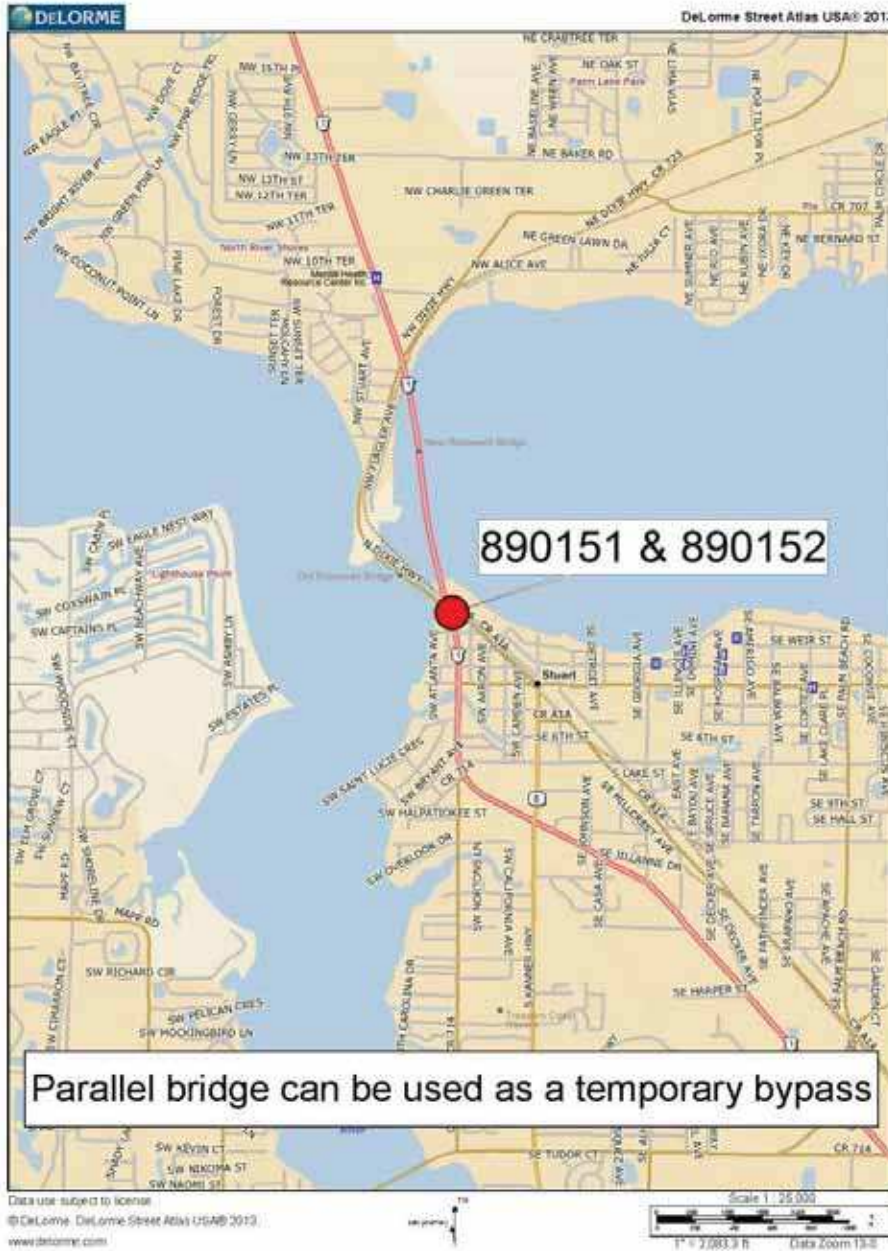
North Approach Looking South

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Detour Route

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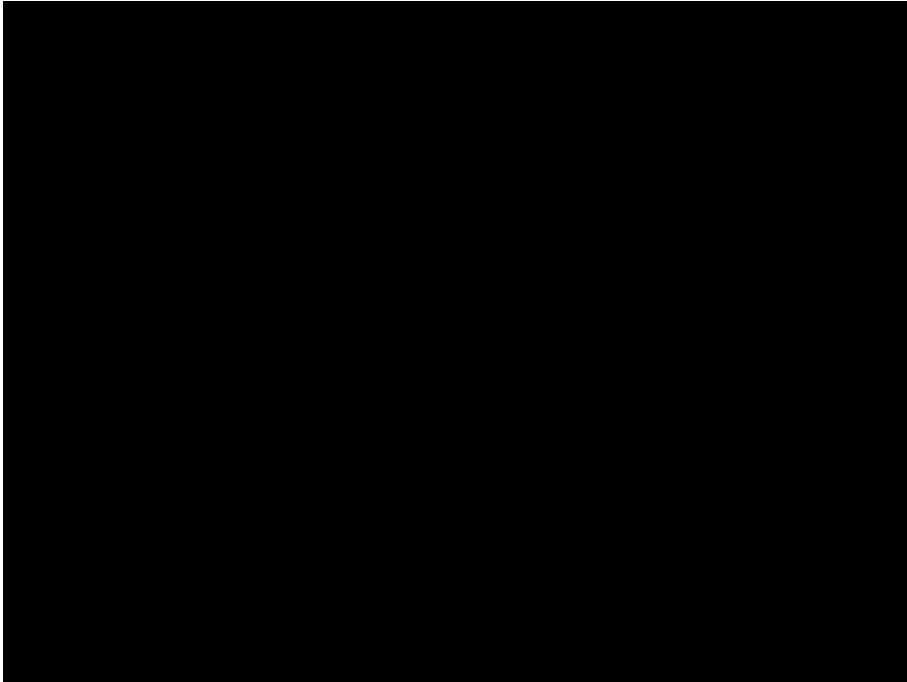
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Photo 321-S01 (Unit 0: Re Conc Approach Slab)

Longitudinal crack in the south approach slab.

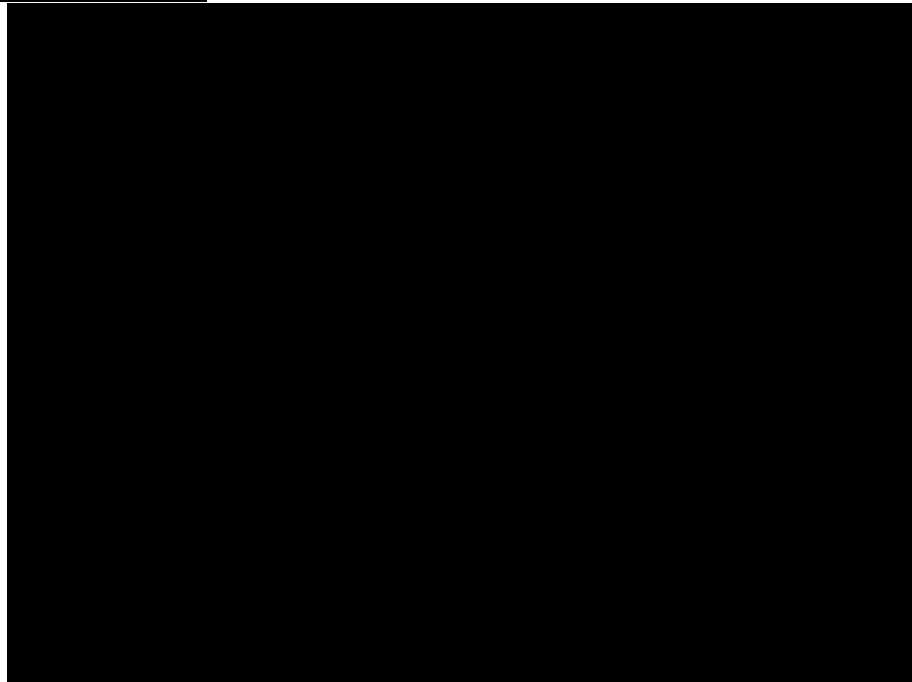
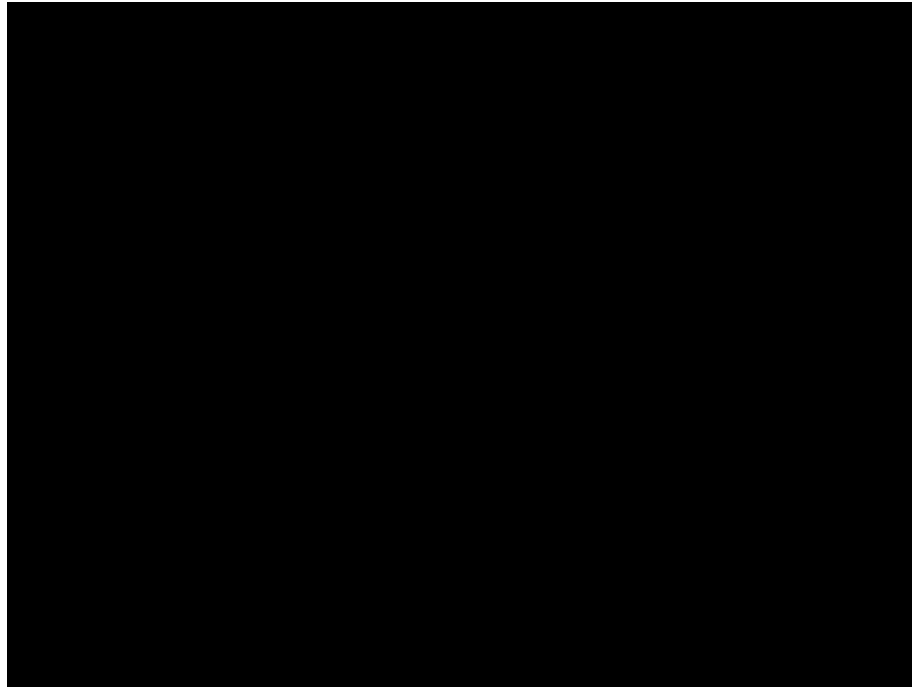


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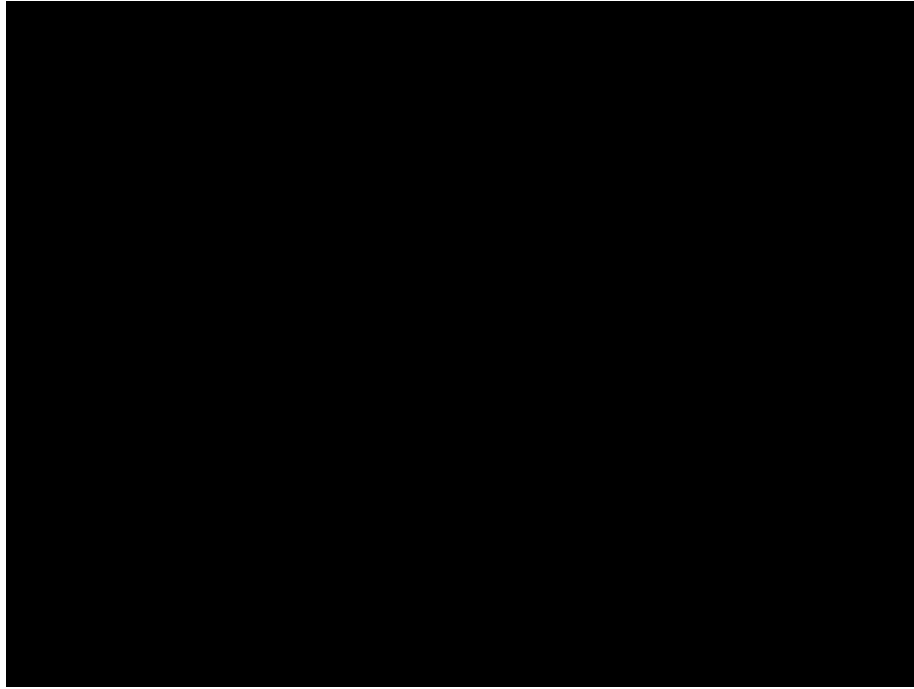
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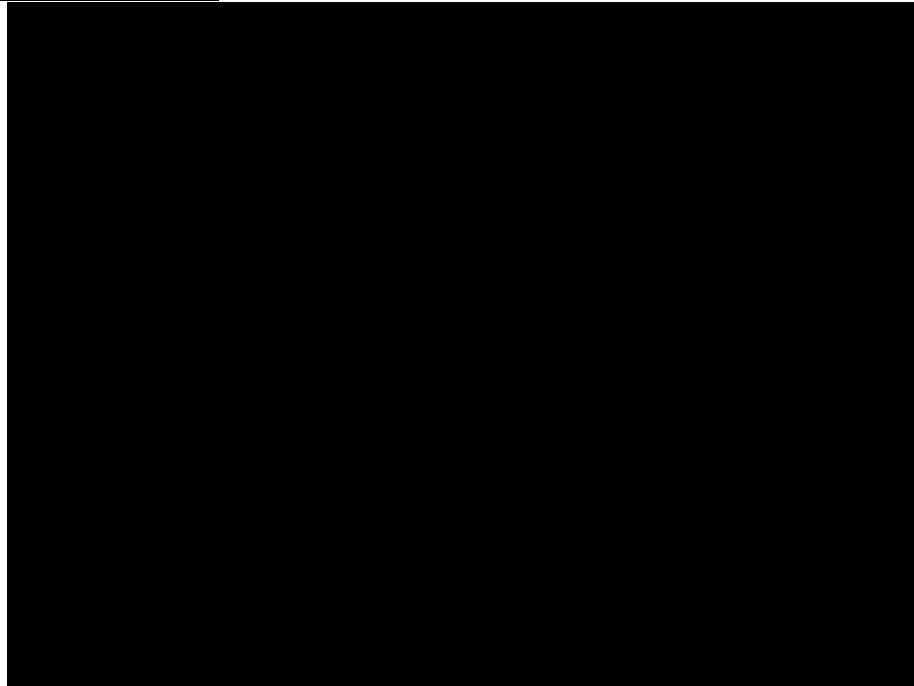
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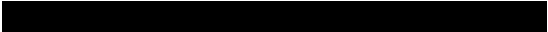
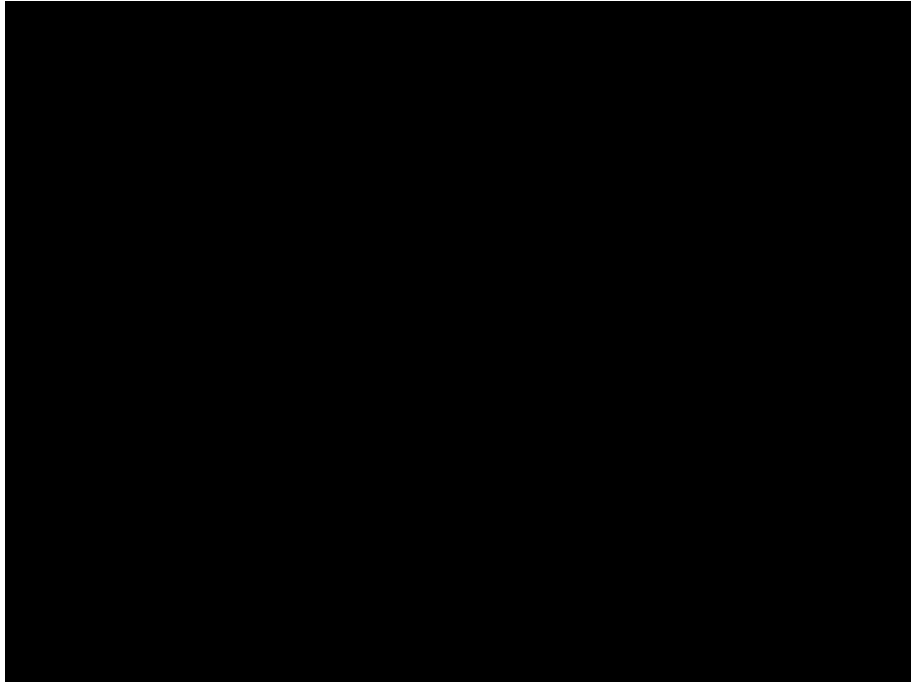
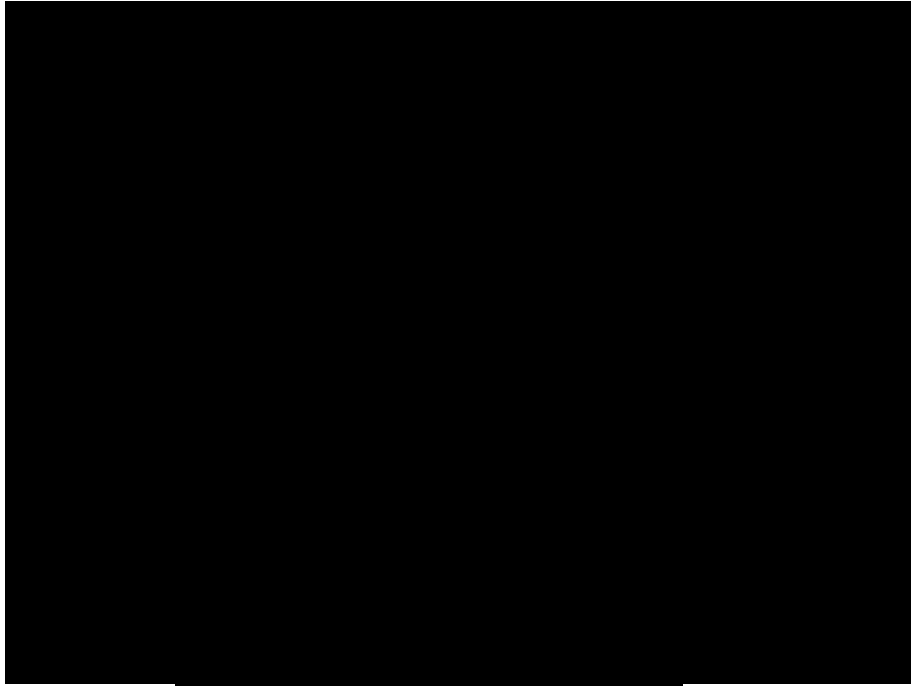
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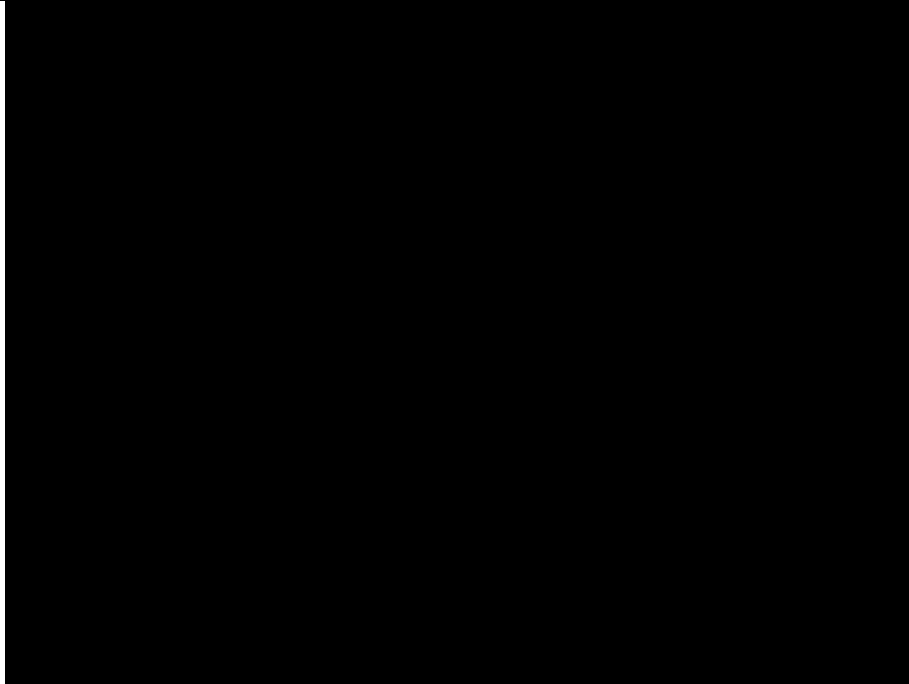
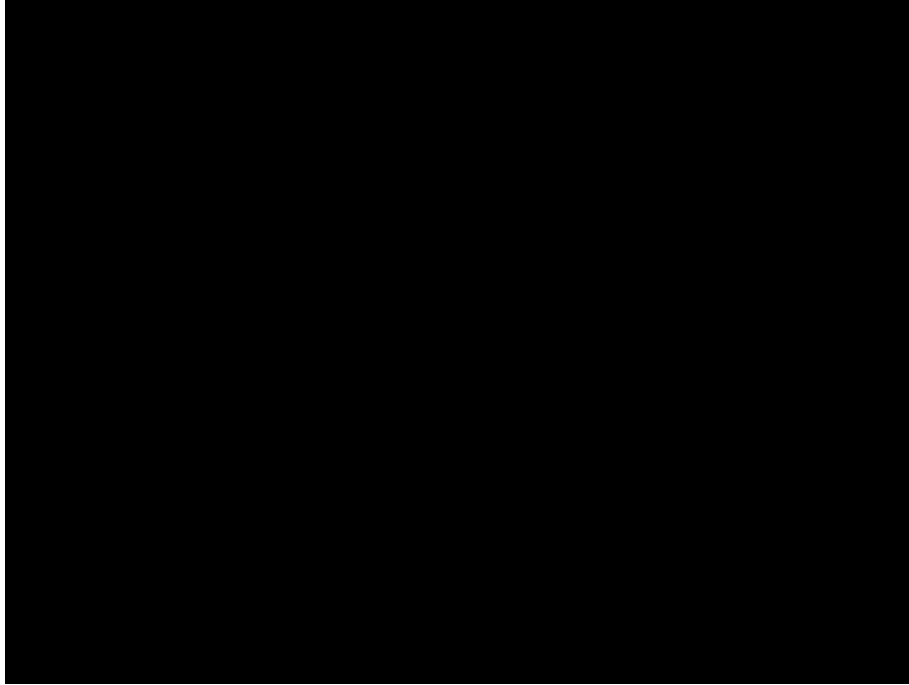
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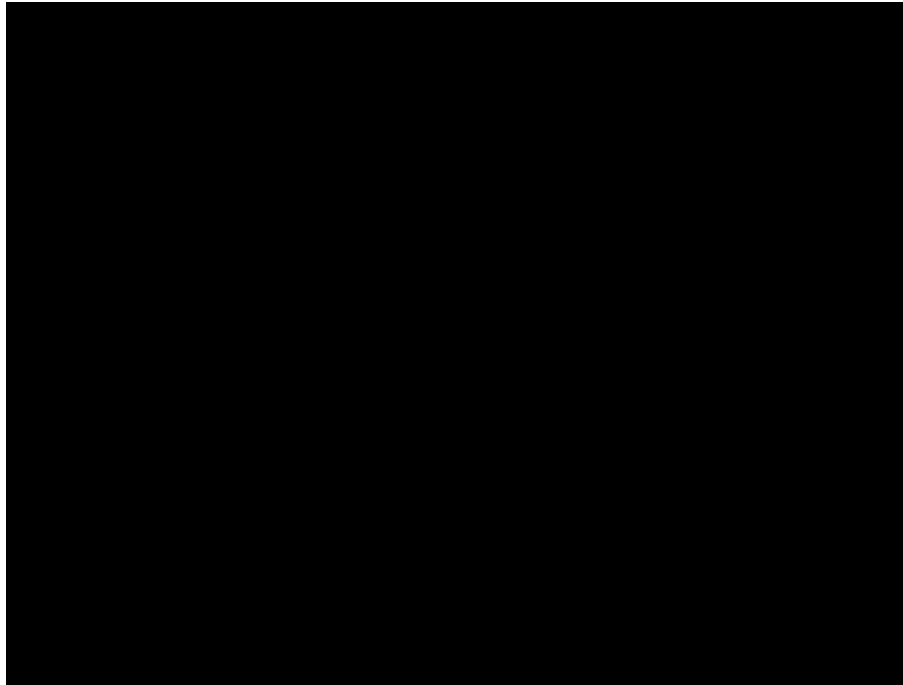


Photo 8398-S01 (Unit 0: Drainage System - Other)

Debris in the drainage inlet at Span 10.

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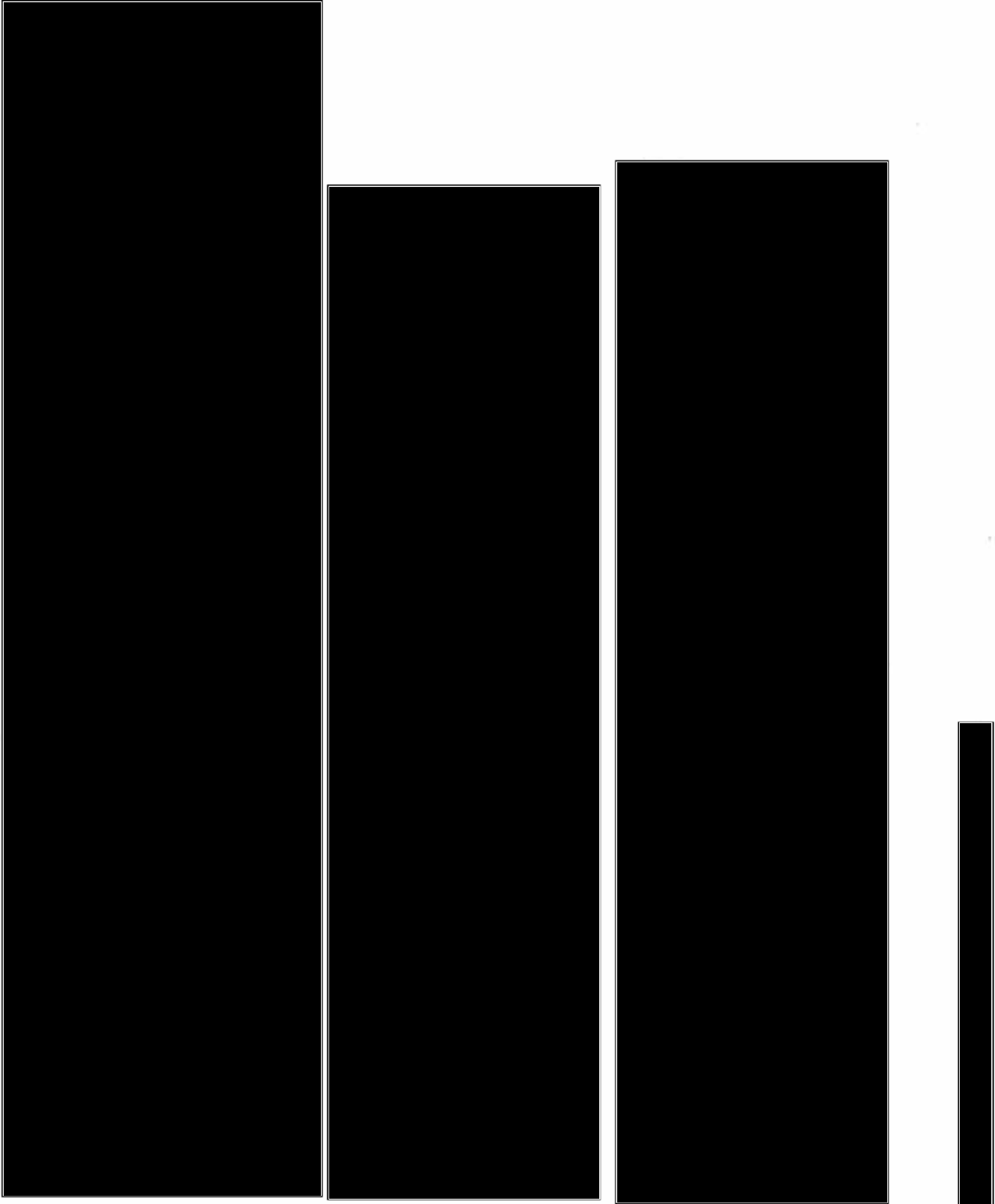
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East Channel

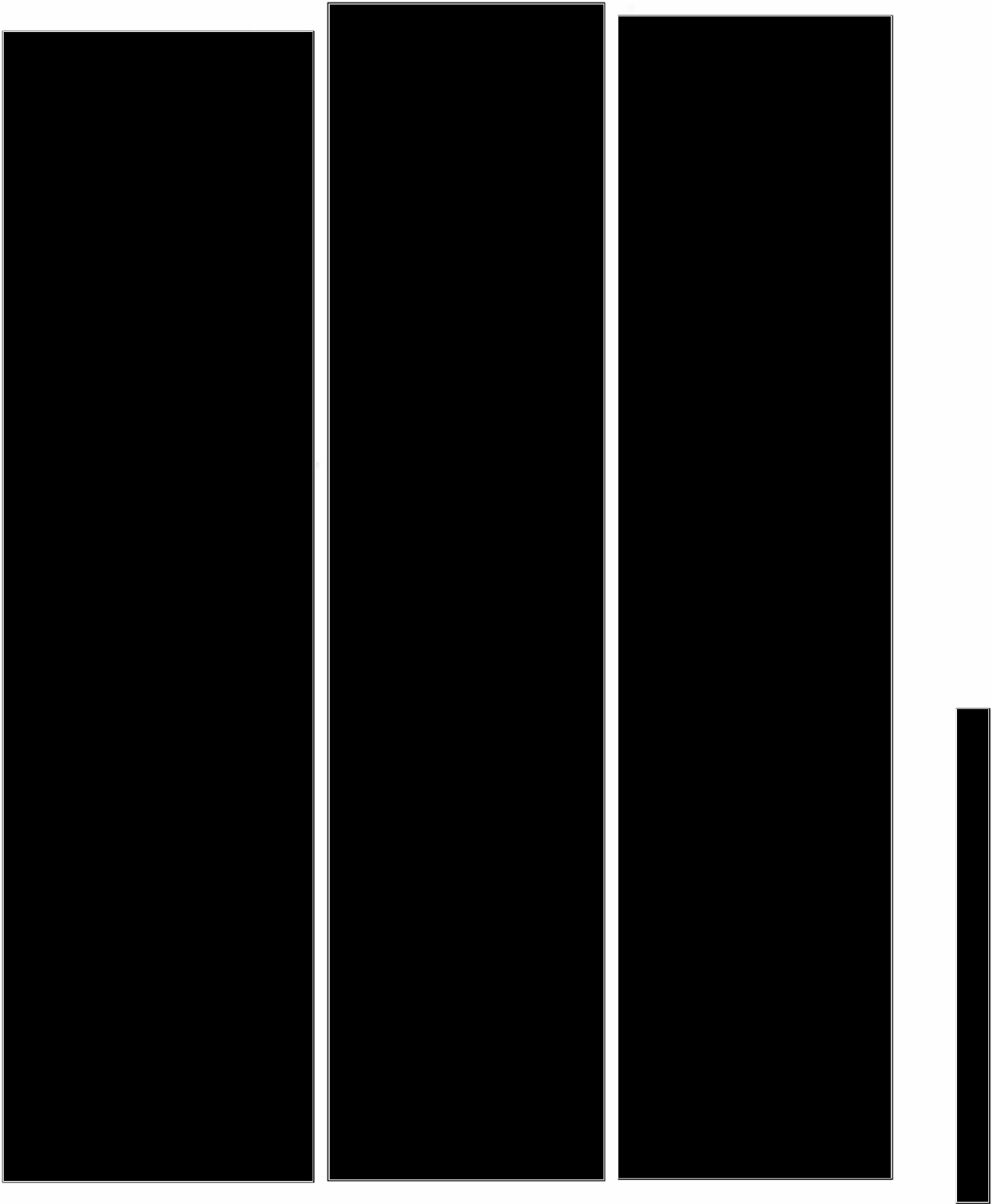
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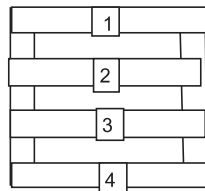
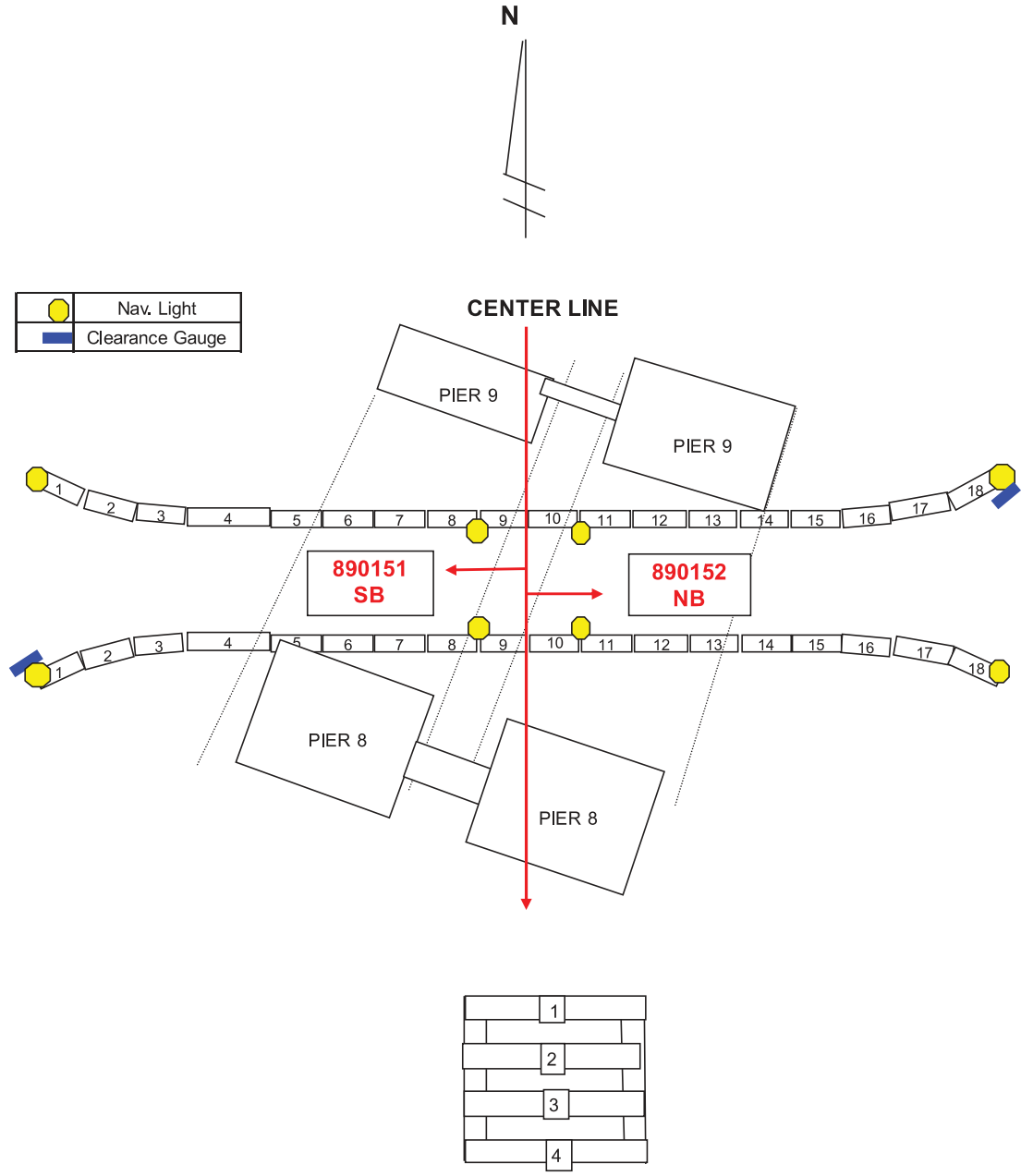
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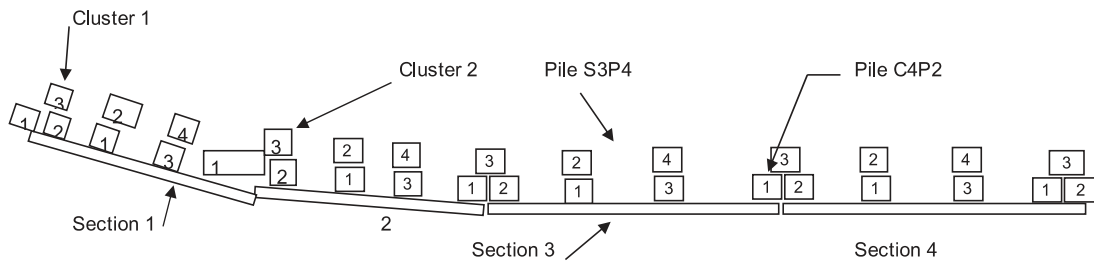
Fender System Layout

Bridge Number: 890152

Inspection Date: 06/26/2018



Typical section of wales



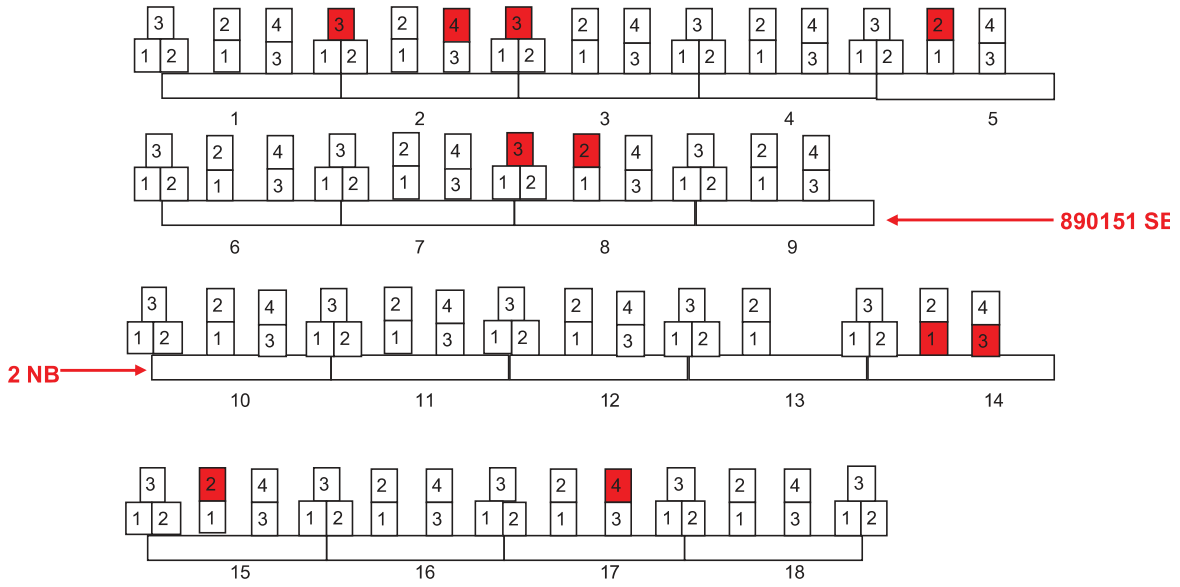
Typical Pile configuration

Fender Pile Layout

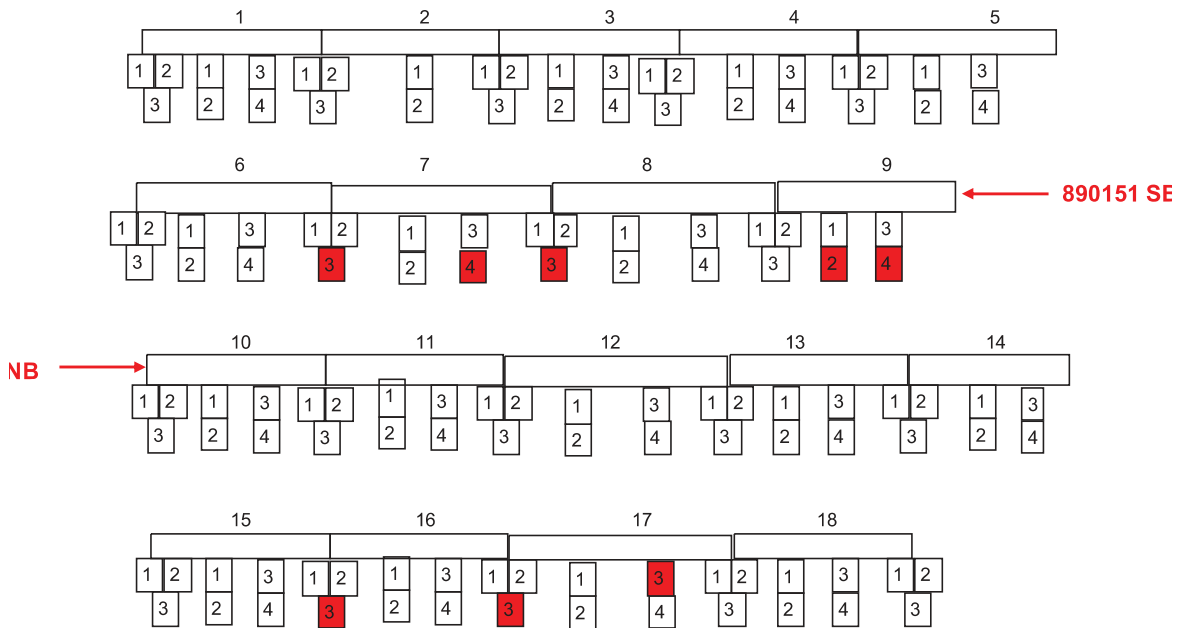
Bridge Number: 890152

Inspection Date: 06/26/2018

North Fender



South Fender



Piles Condition States	
1	
2	
3	
4	

Fender Wale Layout

Bridge Number: 890152

Inspection Date: 06/26/2018

North Fender

1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
Section 1	Section 2	Section 3	Section 4	Section 5	Section 6

890151 SB ← | → 890152 NB

1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
Section 7	Section 8	Section 9	Section 10	Section 11	Section 12

1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
Section 13	Section 14	Section 15	Section 16	Section 17	Section 18

South Fender

1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
Section 1	Section 2	Section 3	Section 4	Section 5	Section 6

890151 SB ← | → 890152 NB

1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
Section 7	Section 8	Section 9	Section 10	Section 11	Section 12

1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
Section 13	Section 14	Section 15	Section 16	Section 17	Section 18

Fender Color Code	
 Timber Wale	
 Plastic Wale	
 Missing Wale	

AYRES ASSOCIATES
COA 4356
8875 Hidden River Pkwy. Suite 200
Tampa, FL 33637
(813) 978-8688

Underwater Bridge Inspection Report
For
TRANSSYSTEMS CORPORATION

NBI Structure No. (8): 890152

Underwater Date (93): 06/26/2018


Structure/Roadway Identification:

District (2): District 4 – Ft. Lauderdale
County (3): (89) Martin
Feature Intersected (6): St. Lucie River / SR-707
Facility Carried (7): US-1 (SR-5) NB (Roosevelt Bridge)

Underwater Inspection Details:

Special Crew Hours: 30
Max. Depth: 22.6 ft.
Type of Dive Insp.: Level II
Type of Boat Used: 20 ft Sea Ark
Water Type/Marine Growth: Salt / Oysters - Barnacles

Inspection Personnel:


Field Personnel:	Title	C.B.I. No.:	Duty:	Signature:
Narvaez, Ricardo	C.B.I. Diver-Inspector	00447/Lead	Dive	
Seelig, Justin	Diver-Inspector		Dive	
Fishman, David	Diver-Inspector		Dive	
Wichman, Tanner	Diver		Tend	




ELEMENT: 226 Pre CONC PILES 


Condition State:  **Recommended Feasible Action:**
 Do Nothing
No deficiencies were noted.



ELEMENT: 220 R/C SUB PILE CAP/FTG 305: LF
Note: Piers 4 through 18 have 1 footing each.

Condition State:  **Recommended Feasible Action:**
 Do Nothing


Condition State:  **Recommended Feasible Action:**
 Do Nothing


Bridge ID: 890152
District: 4

Page: 2 of 8
Inspection Date: 06/26/2018

Cleaning Log: Several strips on Footing 4 and 11 and all deficiencies were cleaned.

ELEMENT: 8387 P/S FENDER/DOLPHIN **144: LF**

Note: The fender system is shared with Bridge Number 890151 SB. Only Sections 10 thru 18 of the North and South Fender Systems were inspected and quantified for this structure. Refer to fender sketches for layout and deficiency locations.

Condition State: CS-3	QTY: 7	Recommended Feasible Action: Do Nothing
--	-------------------------	--

North Fender:

1) The following piles have spalls up to 14 in. H x 6 in. W x 3 in. D with exposed steel at the top of the pile, however, the exposed steel has been epoxy coated since the previous inspection and only minor corrosion is bleeding thru at S14P1, S14P3, S15P2 and S17P4. NO CHANGE. (1080 / 4 LF)

South Fender:

2) The following piles have spalls up to 14 in. H x 6 in. W x 3 in. D with exposed steel at the top of the pile, however, the exposed steel has been epoxy coated since the previous inspection and only minor corrosion is bleeding thru at C16P3, C17P3, and S17P3. NO CHANGE. (1080 / 3 LF)

Condition State: CS-1	QTY: 137	Recommended Feasible Action: Do Nothing
--	---------------------------	--

Secondary:

North and South Fender:

- 3) The cable clamps for the top and bottom wire ropes have heavy corrosion. NO CHANGE.
- 4) The pile attachment bolts for the bottom 3 wales typically have heavy corrosion. NO CHANGE.
- 5) All cable wraps exhibit moderate to heavy corrosion. NO CHANGE.

South Fender:

- 6) The bottom wale in Section 15 has moderate external decay and evidence of minor marine borer attack. NO CHANGE
- 7) The ends of the bottom wale in Sections 13, 14 and 16 have light external decay and evidence of minor marine borer attack. NO CHANGE

ELEMENT: 8290 CHANNEL **1: EA**

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

No deficiencies were noted.

ELEMENT: 8580 NAVIGATIONAL LIGHTS **1: EA**

Note: This element quantifies the navigational lights on the bridge rail (1), fender systems (4) and clearance gauge light (1) for a total of 6 lights. Refer to fender system layout sketch for locations.

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

No deficiencies were noted.

Bridge ID: 890152
District: 4

Page: 3 of 8
Inspection Date: 06/26/2018

STRUCTURE NOTES: The following information is for the fishing pier located at the south end of both bridges.

FISHING PIER:

Note: The Fishing Pier starts on the south shore, between Bridge Number 890151 SB and 890152 NB. It extends north to Pier 4 Footing and ends at Pier 5 Footing. Only the elements located in water at the time of inspection were quantified and inspected.

ELEMENT: 226 Pre CONC PILES **24: EA**

Note: Bents 1 thru 12 have two 14 in. square concrete piles each.

Condition State:	QTY:	Recommended Feasible Action:
CS-1	24	Do Nothing

No deficiencies were noted.

Cleaning Log: Piles 5-1, 5-2, and 7-1 were cleaned.

ELEMENT: 234 R/CONCRETE CAP **210: LF**

Note: Bent Caps 1 thru 12 are each 17 ft.-6 in. long.

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

No deficiencies were noted.

Cleaning Log: Several strips at random locations were cleaned.

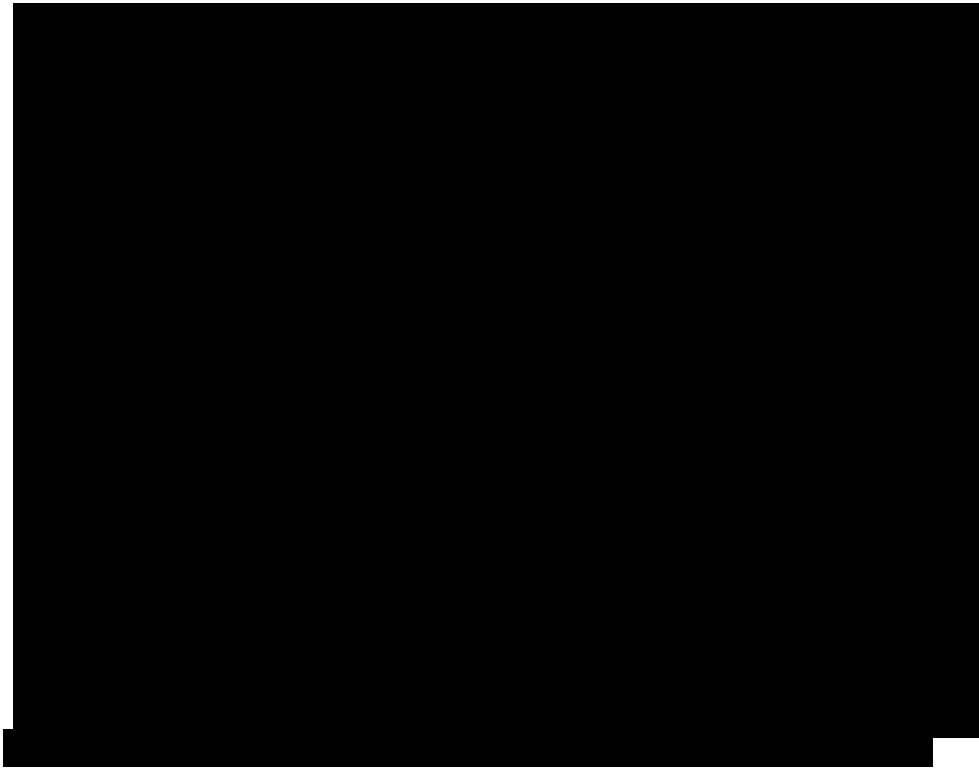
INSPECTION NOTES: Structure was inventoried South to North.

Underwater elements inspected:

226 – Pre CONC PILES
220 – RE SUB PILE CAP/FTG
8387 – P/S FENDER/ DOLPHIN
8290 – CHANNEL
8580 – NAVIGATIONAL LIGHTS
234 – R/CONCRETE CAP (Fishing Pier)

Bridge ID: 890152
District: 4

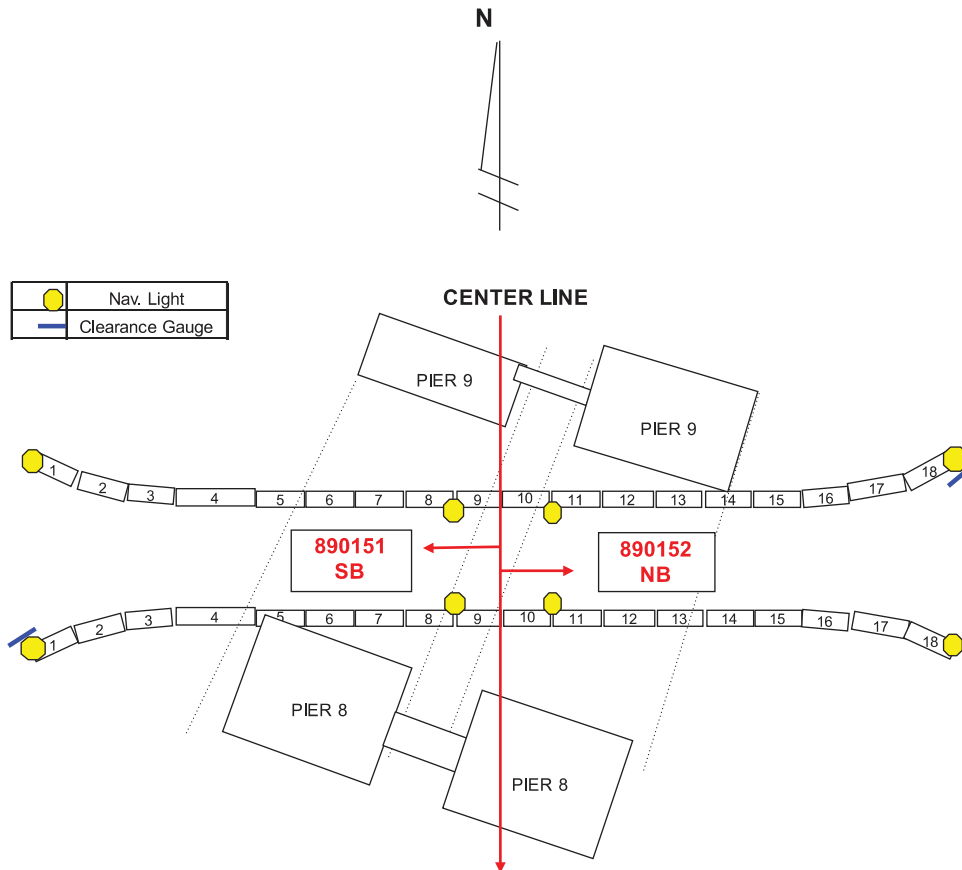
Page: 4 of 8
Inspection Date: 06/26/2018



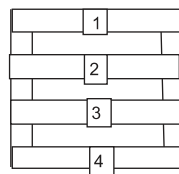
Fender System Layout

Bridge Number: 890152

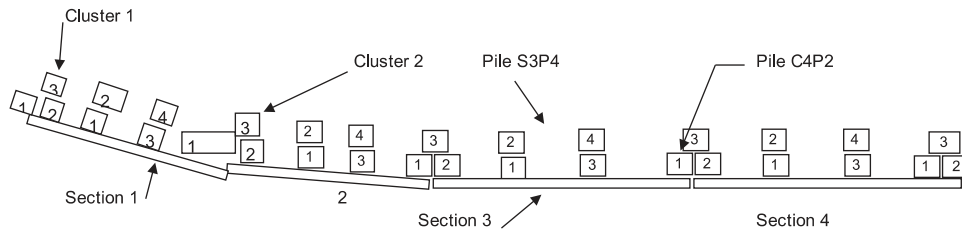
Inspection Date: 06/26/2018



	Nav. Light
	Clearance Gauge



Typical section of wales



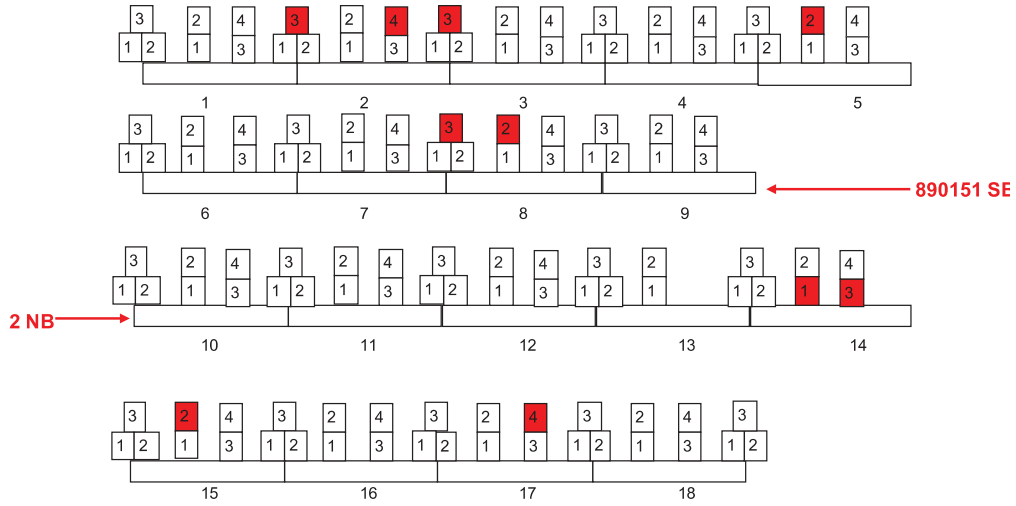
Typical Pile configuration

Fender Pile Layout

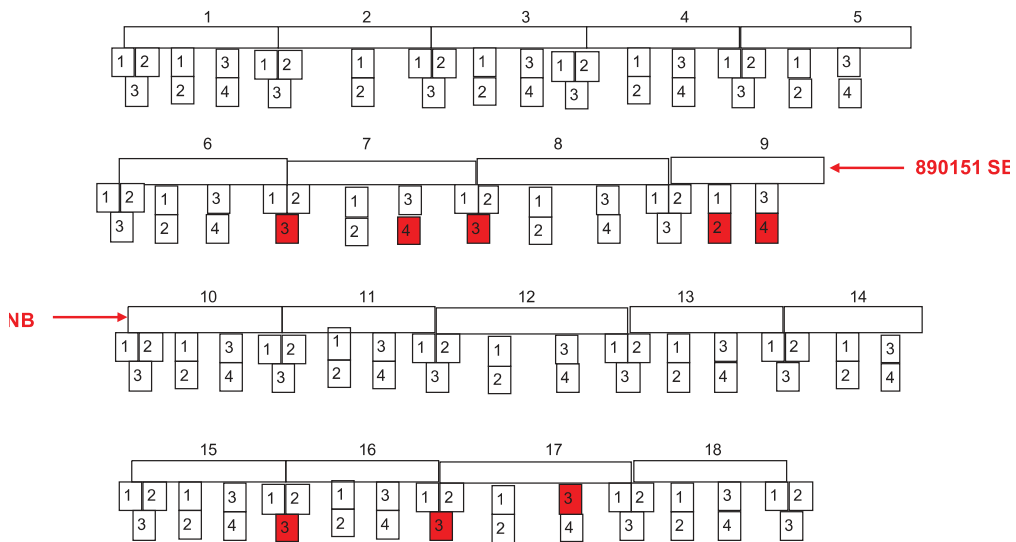
Bridge Number: 890152

Inspection Date: 06/26/2018

North Fender



South Fender



Piles Condition States	
1	
2	
3	
4	

Fender Wale Layout

Bridge Number: 890152

Inspection Date: 06/26/2018

North Fender

1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
Section 1	Section 2	Section 3	Section 4	Section 5	Section 6

890151 SB | 890152 NB

1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
Section 7	Section 8	Section 9	Section 10	Section 11	Section 12

1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
Section 13	Section 14	Section 15	Section 16	Section 17	Section 18




South Fender

1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
Section 1	Section 2	Section 3	Section 4	Section 5	Section 6

890151 SB | 890152 NB

1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
Section 7	Section 8	Section 9	Section 10	Section 11	Section 12

1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
Section 13	Section 14	Section 15	Section 16	Section 17	Section 18

Fender Color Code	
	Timber Wale
	Plastic Wale
	Missing Wale

**FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM**

REPORT ID: INSP005

Inspection/CIDR/Bridge Profile Report with PDF attachment(s)

Structure ID: 890152

CIDR

DATE PRINTED: 8/21/2018

Description

Structure Unit Identification

Bridge/Unit Key: 890152 0
 Structure Name: New Roosevelt
 Description: MAIN SPAN 1
 Type: M - Main

Roadway Identification

NBI Structure No (8): 890152
 Position/Prefix (5): 1 - Route On Structure
 Kind Hwy (Rte Prefix): 2 U.S. Numbered Hwy
 Design Level of Service: 1 Mainline
 Route Number/Suffix: 00001 / 0 N/A (NBI)
 Feature Intersect (6): St Lucie River / SR-707
 Critical Facility: Not Defense-crit
 Facility Carried (7): NB US-1 / SR-5
 Mile Point (11): 0.118
 Latitude (16): 027d12'03.2" Long (17): 080d15'26.3"

Roadway Classification

Nat. Hwy Sys (104): 1 On the NHS
 National base Net (12): 1 - On Base Network
 LRS Inventory Rte (13a): 89 015 000 Sub Rte (13b): 00
 Functional Class (26): 14 Urban Other Princ
 On Federal Aid System: Yes
 Defense Hwy (100): 0 Not a STRAHNET hwy
 Direction of Traffic (102): 1 1-way traffic
 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): N N/A (NBI)
 Deck (58): N N/A (NBI)
 Superstructure (59): 7 Good
 Substructure (60): 6 Satisfactory

Roadway Traffic and Accidents

Lanes (28): 3 Medians: 0 Speed: 45 mph
 ADT Class: 4 ADT Class 4
 Recent ADT (29): 29516 Year (30): 2018
 Future ADT (114): 51209 Year (115): 2040
 Truck % ADT (109): 4
 Detour Length (19): 1.0 mi
 Detour Speed: 45 mph
 Accident Count: -1 Rate:

Roadway Clearances

Vertical (10): 99.99 ft Appr. Road (32): 44 ft
 Horiz. (47): 52 ft Roadway (51): 52 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): N Not applicable
 Unrepaired Spalls: -1 sq.ft.
 Review Required:

FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

REPORT ID: INSP005

Inspection/CIDR/Bridge Profile Report with PDF attachment(s)

Structure ID: 890152

CIDR

DATE PRINTED: 8/21/2018

Structure Identification

Admin Area: Martin
 District (2): D4 - Ft. Lauderdale
 County (3): (89)Martin
 Place Code (4): Stuart
 Location (9): 1mi S of SR-707 on SR-5
 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): Right of || bridge
 Temp. Structure (103): Not Applicable (P)
 Maint. Resp. (21): 1 State Highway Agency
 Owner (22): 1 State Highway Agency
 Historic Signif. (37): 5 Not eligible for NRHP

Structure Type and Material

Curb/Sidewalk (50): Left: 0 ft Right: 5 ft
 Bridge Median (33): 0 No median
 Main Span Material (43A): 6 P/S Conc Continuous
 Appr Span Material (44A): Not Applicable
 Main Span Design (43B): 21 Segmental Box Girder
 Appr Span Design (44B): Not Applicable

Appraisal**Structure Appraisal**

Open/Posted/Closed (41): A Open, no restriction
 Deck Geometry (68): 7 Above Min Criteria
 Underclearances (69): 6 Equal Minimum
 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

Minimum Vertical Clearance

Over Structure (53): 99.99 ft
 Under (reference) (54a): H Hwy beneath struct
 Under (54b): 21.3 ft

Schedule**Current Inspection**

Inspection Date: 06/28/2018
 Inspector: KNTCCBN - Benjamin Noel
 Bridge Group: E4H52
 Alt. Bridge Group:
 Primary Type: Regular NBI
 Review Required:

Geometrics

Spans in Main Unit (45): 20
 Approach Spans (46): 0
 Length of Max Span (48): 260 ft
 Structure Length (49): 4565 ft
 Total Length: 4605 ft
 Deck Area: 278465 sqft
 Structure Flared (35): 0 No flare

Age and Service

Year Built (27): 1997
 Year Reconstructed (106): 0
 Type of Service On (42a): 5 Highway-pedestrian
 Under (42b): 8 Hwy-waterway-RR
 Fracture Critical Details: Not Applicable

Deck Type and Material

Deck Width (52): 61 ft
 Skew (34): 0 deg
 Deck Type (107): 1 Concrete-Cast-in-Place
 Surface (108): 0 None
 Membrane: 0 None
 Deck Protection: None

Navigation Data

Navigation Control (38): Permit Required
 Nav Vertical Clr (39): 65.3 ft
 Nav Horizontal Clr (40): 90.1 ft
 Min Vert Lift Clr (116): 0 ft
 Pier Protection (111): 2 In-Place, Functioning

NBI Condition Rating

Sufficiency Rating: 97.8
 Health Index: 97.08
 Structural Eval (67): 6 Equal Min Criteria
 Deficiency: Not Deficient

Minimum Lateral Underclearance

Reference (55a): H Hwy beneath struct
 Right Side (55b): 18.6 ft
 Left Side (56): 0 ft

Next Inspection Date Scheduled

NBI: 06/28/2020
 Element: 06/28/2020
 Fracture Critical:
 Underwater: 06/28/2020
 Other/Special:

FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM

REPORT ID: INSP005

Inspection/CIDR/Bridge Profile Report with PDF attachment(s)

Structure ID: 890152

CIDR

DATE PRINTED: 8/21/2018

Schedule Cont.

Inspection Types Performed

NBI Element Fracture Critical Underwater Other Special

Inspection Intervals Required (92) Frequency (92) Last Date (93) Inspection Resources

Inspection Intervals	Required (92)	Frequency (92)	Last Date (93)	Inspection Resources
Fracture Critical	<input type="checkbox"/>	mos		Crew Hours: 40
Underwater	<input checked="" type="checkbox"/>	24 mos	06/26/2018	Flagger Hours: 0
Other Special	<input type="checkbox"/>	mos		Helper Hours: 0
NBI		24 mos (91)	06/28/2018 (90)	Snooper Hours: 20
				Special Crew Hours: 30
				Special Equip Hours: 30

Bridge Related

General Bridge Information

Parallel Bridge Seq: 0151
Channel Depth: 22.6 ft
Radio Frequency: -1
Phone Number:
Exception Date:
Exception Type: Unknown
Accepted By Maint: 01/01/1997
Warranty Expiration: 00/00/0000
Performance Rating: Performance Rating Not applicable or not calculable.
Permitted Utilities: Power Water Gas Fiber Optic Sewage Other Box Girder Lights & Utilities

Bridge Rail 1: Concrete jersey type
Bridge Rail 2: Concrete bicycle barrier
Electrical Devices: Combination values 1-7
Culvert Type: Not applicable
Maintenance Yard: 440-D4 External Contract
FIHS ON / OFF: No Routes on FIHS
Previous Structure:
2nd Previous Structure:
Replacement Structure:

Bridge Load Rating Information

Inventory Type (065): 1 LF Load Factor
Operating Type (063): 1 LF Load Factor
Original Design Load (031): 6 MS18(HS20)+mod
Date: 03/19/2001
Initials:
Load Rating Rev. Recom.: No
Load Rating Plans Status: Design or Construction

Inventory Rating (066): 37.4 tons
Operating Rating (064): 68.8 tons
HS20/FL120 Max Span Rating: 68.8 tons
Dynamic Impact in Percent: 15 %
Governing Span Length: 199.8 ft
Minimum Span Length:
Distribution Method: Others

Load Rating Notes:

LEGAL LOADS

[Redacted legal load information]

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

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: Unknown
Foundation Type: Unknown
Mode of Flow: Riverine
Rating Scour Eval: Low Risk - Low
Highest Scour Eval: Not Applicable

Scour Recommended I: Stop scour evaluations
Scour Recommended II: No recommendation
Scour Recommended III: No recommendation
Scour Elevation: 999 ft
Action Elevation: 999 ft

**FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM**

REPORT ID: INSP005

Inspection/CIDR/Bridge Profile Report with PDF attachment(s)

Structure ID: 890152

CIDR

DATE PRINTED: 8/21/2018

Scour Evaluation Method: Unknown – Eval Not Comp

Storm Frequency: 999

**FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM**

REPORT ID: INSP005

Inspection/CIDR/Bridge Profile Report with PDF attachment(s)

Structure ID: 890152

CIDR

DATE PRINTED: 8/21/2018

Elements

Inspection Date: 06/28/2018 UPOY

DECKS : Decks/Slabs

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	12 / 4	Re Concrete Deck									278463 sq.ft
0											

DECKS : Joints

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	303 / 4	Assem Jnt With Seal									305 ft
0											

MISCELLANEOUS : Channel

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

MISCELLANEOUS : Other Elements

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	321 / 4	Re Conc Approach Slab	2420	99.18	0	.	20	0.82	0	.	2440 sq.ft
0	1130 / 4	Cracking (RC and Other)	0	.	0	.	20	100	0	.	20 sq.ft

MISCELLANEOUS : Other Elements

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	8478 / 4	MSE Walls									184 ft
0											
0											

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	210 / 4	Re Conc Pier Wall									430 ft
0											
0											

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	215 / 4	Re Conc Abutment									125 ft
0	1120 / 4	Efflorescence/Rust Staining									5 ft
0											

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	220 / 4	Re Conc Pile Cap/Ftg									580 ft
0											
0											

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	226 / 4	Pre Conc Pile									

**FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM**

REPORT ID: INSP005

Inspection/CIDR/Bridge Profile Report with PDF attachment(s)

Structure ID: 890152

CIDR

DATE PRINTED: 8/21/2018

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	8387 / 4	PS Fender/Dolphin	137	95.14	0	.	7	4.86	0	.	144 ft
0	1080 / 4	Delamination/Spall/Patched Area	0	.	0	.	7	100	0	.	7 ft

SUPERSTRUCTURE : Bearings

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	314 / 4	Pot Bearing									18 each
0											

SUPERSTRUCTURE : Superstructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	104 / 4	Pre Clsd Box Girder									4567 ft
0											
0											

SUPERSTRUCTURE : Superstructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	331 / 4	Re Conc Bridge Railing	9131	100	0	.	0	.	0	.	9131 ft

SUPERSTRUCTURE : Superstructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	333 / 4	Other Bridge Railing	4566	99.98	0	.	1	0.02	0	.	4567 ft
0	1080 / 4	Delamination/Spall/Patched Area	0	.	0	.	1	100	0	.	1 ft

SUPERSTRUCTURE : Superstructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	8398 / 4	Drainage System - Other	1	100	0	.	0	.	0	.	1 (EA)

SUPERSTRUCTURE : Superstructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	8580 / 4	Navigational Lights	1	100	0	.	0	.	0	.	1 (EA)

Total Number of Elements*: 16

*excluding defects/protective systems

**FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM**

REPORT ID: INSP005

Inspection/CIDR/Bridge Profile Report with PDF attachment(s)

Structure ID: 890152

CIDR

DATE PRINTED: 8/21/2018

Inspection Information**Inspection Date:** 06/28/2018**Type:** Regular NBI**Inspector:** KNTCCBN - Benjamin Noel**Inspection Notes:** Sufficiency Rating Calculation Accepted by kn853lm-P at 8/21/2018 9:38:26 AM**LOAD CAPACITY EVALUATION:**

Since the current load rating dated 03/19/2001, 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 06/28/2018 per R. Wayne McLennon, P.E..

ROUTINE INSPECTION FISHING PIER (06/28/18):

Notes: The following information is for the fishing pier located at the south end of both bridges.

The Fishing Pier starts on the south shore between Bridge Number 890151 SB and 890152 NB. It extends north from the shoreline and ends at Pier 6 Footings.

1) Several railing posts between the 4th and 6th joint from the south exhibit corrosion at the support plate. NO CHANGE.

2) There is a missing vertical pipe at the northeast corner of the pier at Pier 5 Footing. NO CHANGE.

ROUTINE UNDERWATER INSPECTION - FISHING PIER:

Element 226 - Pre Conc Pile Qty = 24ea.

Bents 1 thru 12 have two 14in. square concrete piles each.

Cleaning Log: Piles 5-1, 5-2 and 7-1 were cleaned.

No deficiencies were noted.

Element 234 - Re Conc Pier Cap Qty = 210lf.

Bent Caps 1 thru 12 are each 17ft.-6in. long.

Cleaning Log: Several strips at random locations were cleaned.

No deficiencies were noted.

Structure Notes

2) There is a fishing pier below the bridge at the south end.

The inventory photos were last updated on 06/04/2014.

The following underwater elements were inspected during the 2018 Routine NBI Inspection:

- 8290 Channel (1 ea.)
- 220 Re Conc Pile Cap/Ftg (305 ft.)
- 226 Pre Conc Pile [REDACTED]
- 8387 P/S Fender/Dolphin (144 ft.)
- 8580 Navigational Lights (1 ea.)
- 234 Re Conc Pier Cap (Fishing Pier) (210 ft.)

Schedule Notes

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Under Route Information

Roadway Identification

NBI Structure No (8): 890152
 Position/Prefix (5): 2 - One Route Under
 Kind Hwy (Rte Prefix): 3 State Hwy
 Design Level of Service: 1 Mainline
 Route Number/Suffix: 00707 / 0 N/A (NBI)
 District (2): D4 - Ft. Lauderdale
 County (3): (89)Martin
 Place Code (4): Stuart
 Feature Intersect (6): St Lucie River / SR-707
 Facility Carried
 by Structure (7): NB US-1 / SR-5
 Critical Facility: Not Defense-crit
 Roadway Name: SR-707
 Mile Point (11): 20.000
 Latitude (16): 027d12'03.2" Long (17): 080d15'26.3"

Roadway Classification

Nat. Hwy Sys (104): 0 Not on NHS
 National base Net (12): 0 - Not on Base Network
 LRS Inventory Rte (13a): 89 030 000 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 Traffic and Accidents

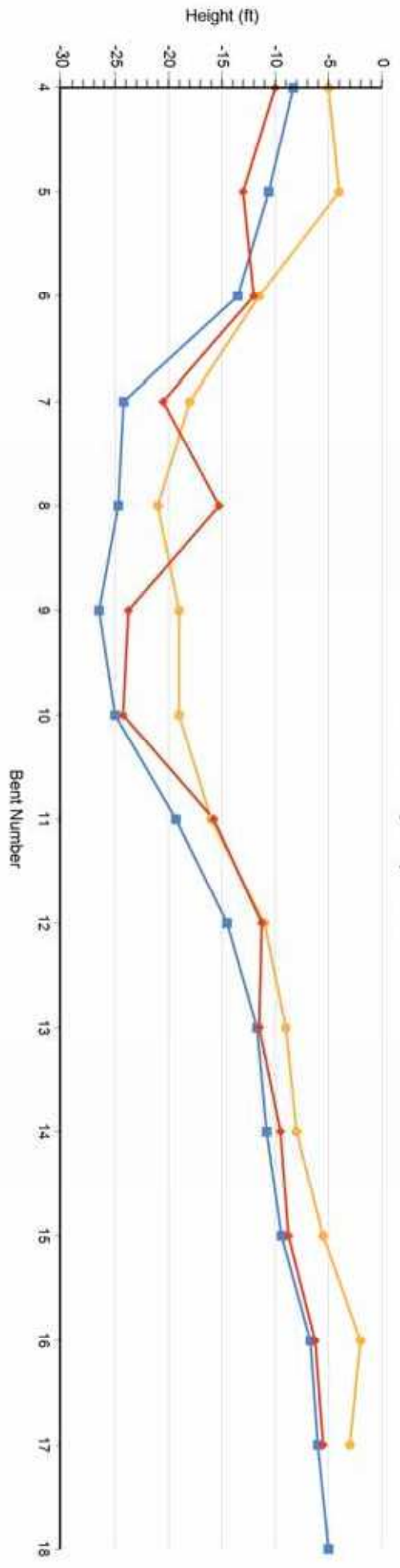
Lanes (28): 2 Medians: 0 Speed: 35 mph
 ADT Class: 3 ADT Class 3
 Recent ADT (29): 7600 Year (30): 2018
 Future ADT (114): 13186 Year (115): 2040
 Truck % ADT (109): 3
 Detour Length (19): 1.0 mi
 Detour Speed: 35 mph
 Accident Count: -1 Rate:

Roadway Clearances

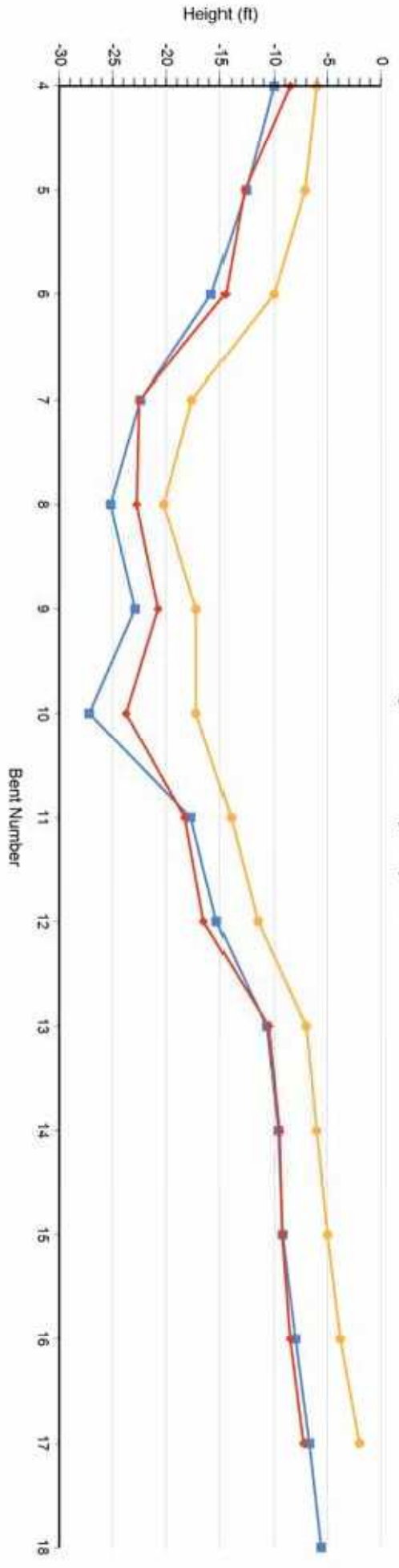
Vertical (10): 21.3 ft Appr. Road (32): 50.5 ft
 Horiz. (47): 50.5 ft Roadway (51): 69 ft
 Truck Network (110): 0 Not part of natl netwo
 Toll Facility (20): 3 On free road
 Fed. Lands Hwy (105): 0 N/A (NBI)
 School Bus Route:
 Transit Route:

FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM
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Bridge Profile

Left Profile by Inspection



Right Profile by Inspection



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

Profile Data - Numerical Summary

Inspection Date and Key: 6/28/2018

UPOY

Bent #

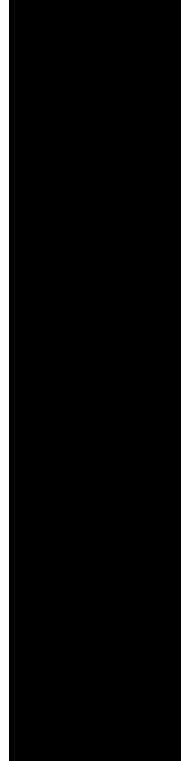
Left Height

Right Height

(All Heights are in Feet)

Bent #	Left Height	Right Height
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]

Air Temp:



Inspection Date and Key: 1/17/2017

CLPZ

[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]

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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Bridge Profile

Profile Data - Numerical Summary

Bent # Left Height Right Height

(All Heights are in Feet)

[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]

Air Temp:

[REDACTED]