

FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR Report with PDF attachment(s)
(TRAFFIC SIGNAL MAST ARM INSPECTION REPORT)

Structure ID: 70M131

Inspection

DISTRICT: D5 - Deland

INSPECTION DATE: 11/1/2021 BBLN

BY: FIT Engineering	STRUCTURE NAME: US-1 at Olmstead Drive
OWNER: 1 State Highway Agency	YEAR BUILT: 2013
MAINTAINED BY: 4 City/Municipal Hwy Agy	SECTION NO.: 70 030 000
STRUCTURE TYPE: 3 Steel - Traffic Signal Mast Arm	MP: 0.799
LOCATION: 0.75 Miles N. of SR-50	ROUTE: 00001
SERV. TYPE ON: Traffic Signal Mast Arm	FACILITY CARRIED: US-1 (SR-5)
SERV. TYPE UNDER: 1 Highway	FEATURE INTERSECTED: Olmstead Drive
MAST ARM CODE: 2	MAST ARM DESCRIPTION: Mast arm is inside the mast arm boundary area

☐ FUNCTIONALLY OBSOLETE☐ STRUCTURALLY DEFICIENT

TYPE OF INSPECTION: Regular NBI

DATE FIELD INSPECTION WAS PERFORMED: ABOVE WATER: 11/1/2021 UNDERWATER: N/A

SUFFICIENCY RATING: -1
HEALTH INDEX: 98.63

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SECTION NO.: 70 030 000
MP: 0.799
ROUTE: 00001
FACILITY CARRIED: US-1 (SR-5)
FEATURE INTERSECTED: Olmstead Drive
MAST ARM DESCRIPTION: Mast arm is inside the mast arm boundary area

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

TYPE OF INSPECTION: Regular NBI

DATE FIELD INSPECTION WAS PERFORMED: ABOVE WATER: 11/1/2021 UNDERWATER: N/A

OVERALL NBI RATINGS:

DECK: N N/A (NBI)	CHANNEL: N N/A (NBI)
SUPERSTRUCTURE: 7 Good	CULVERT: N N/A (NBI)
SUBSTRUCTURE: 5 Fair	SUFF. RATING: -1
PERF. RATING: Performance Rating Not applicable or not calculable.	HEALTH INDEX: 98.63

FIELD PERSONNEL / TITLE / NUMBER:

Watts, Sanya - Professional Engineer (P.E. #72297) (lead)
Burditt, Robert – Assistant Bridge Inspector

INITIALS

[Signature]

REVIEWING BRIDGE INSPECTION SUPERVISOR:

Maslyn, Rick - Bridge Inspector (CBI #00271)

RM

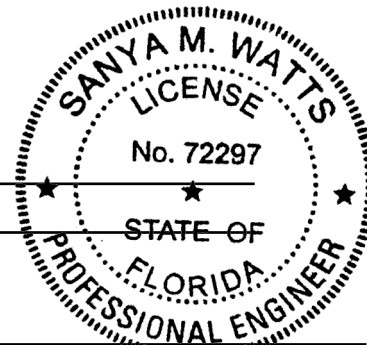
CONFIRMING REGISTERED PROFESSIONAL ENGINEER:

Watts, Sanya - Professional Engineer (P.E. #72297) FIT Engineering
219 NW Melanie Way
Registry No. 30738
Lake City FL 32055

SIGNATURE: _____

DATE: _____

This item has been digitally signed and sealed by Sanya Watts on the date adjacent to the seal. 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

MISCELLANEOUS : Other Elements

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
Structure Unit 1	8480 / 4	Mast Arm Foundation	1	50	1	50	0	.	0	.	2 (EA)
Structure Unit 1	1020 / 4	Connection	0	.	1	100	0	.	0	.	1 (EA)

Element Inspection Notes:

8480/4 This element consists of 2 foundations.

New Comments:

CS2 1020:

F2 - The leveling nuts for Anchor Bolts 1 and 2 are loose, as indicated by washer movement when struck with a hammer. Refer to Photo 1. (1 EA)

CS1:

F1 - Anchor Bolt 5 is slightly skewed, resulting in a partial gap up to 3/16 in. between the nuts and washers above and below the base plate; the bolt is tight.

Repair Recommendation:

F2 - Tighten the loose leveling nuts for Anchor Bolts 1 and 2. P=3

Previous Repair Recommendations:

F1 and F2 - Remove accumulation of sand and dirt below the base plates and clean and paint anchors as needed. - Completed by inspectors.

F1 and F2 - Replace the vermin guards with the correct wire gauge per FDOT Spec. 649-6. - Completed.

Foundation Measurements:

Grout Pad: F1 = No (Wire Screen); F2 = No (Wire Screen)

Base Plate Thickness: F1 = 2 1/2 in.; F2 = 2 1/2 in.

Bolt Diameter: F1 = 2 in.; F2 = 2 in.

Nut Height: F1 = 2 in.; F2 = 2 in.

Washer Thickness (Above & Below Base Plate): F1 = 3/8 in.; F2 = 3/8 in.

Average Distance from Bottom of Base Plate to Foundation: F1 = 3 in.; F2 = 3 1/4 in. (previously noted as 3 1/2 in.)

Average Standoff Distance: F1 = 5/8 in. (previously noted as 1/4 in.); F2 = 7/8 in. (previously noted as 3/4 in.)

1020/4 Refer to Parent Element

MISCELLANEOUS : Other Elements

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
Structure Unit 1	8481 / 4	Metal Mast Arm Vertical	2	100	0	.	0	.	0	.	2 (EA)
Structure Unit 1	8518 / 4	Galvanized Steel	234	100	0	.	0	.	0	.	234 sq.ft

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Element Inspection Notes:

8481/4 This element consists of 2 verticals.

Note: Both verticals have a properly connected ground wire.

New Comments:

CS1:

V1 - The pole cap bolt is bot fully seated; the cap is secure.

INCIDENTAL:

V1 - The pedestrian crosswalk button is not secure on the pole and can be rotated indicating a broken or missing bottom bolt. Refer to Photo 2.

Repair Recommendation:

V1 - Secure the pedestrian crosswalk signal button on the pole. P=3

The following thickness measurements were taken below the access hatch and below the moment connection:

V1 - AH = 0.390 in., MC = 0.383 in.

V2 - AH = 0.391 in., MC = 0.379 in.

Length of mast arm vertical members in linear feet:

V1 - 24.0 ft.

V2 - 24.0 ft.

8518/4 Refer to Parent Element

MISCELLANEOUS : Other Elements

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
Structure Unit 1	8484 / 4	Metal Mast Arm Horizontal	0	.	4	100	0	.	0	.	4 (EA)
Structure Unit 1	1000 / 4	Corrosion	0	.	4	100	0	.	0	.	4 (EA)
Structure Unit 1	8518 / 4	Galvanized Steel	543	99.27	0	.	0	.	4	0.73	547 sq.ft
Structure Unit 1	3440 / 4	Eff (Stl Protect Coat)	0	.	0	.	0	.	4	100	4 sq.ft

Element Inspection Notes:

8484/4 This element consists of 4 horizontals.

New Comments:

CS2 1000:

V1/H1, V1/H2, V2/H3 and V2/H4 - The horizontal arm end cap has light to moderate surface corrosion at each location. Refer to Photo 3. (4 EA)

V1/H2 - A bird nest is present in the horizontal arm, visible through the drain hole near the moment connection; however, screening is in-place. Refer to Photo 4.

V2/H4 - There is a gap up to 1/16 in. wide between the moment connection plates. Moment Connection Bolt 3 can be touched with a feeler gauge; all bolts are tight.

INCIDENTAL:

V1/H2 - The wiring for the camera is running outside of the horizontal arm. Refer to Photo

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5.

Previous Repair Recommendations:

V1/H2 - Cut back the overgrown tree. - Completed.

V1/H2 - Relocate utility pole. - Completed.

The following thickness measurements were taken on each horizontal member at the moment connection:

V1/H1 - 0.398 in.

V1/H2 - 0.337 in.

V2/H3 - 0.384 in.

V2/H4 - 0.250 in.

Length of mast arm horizontal members in linear feet:

V1/H1 - 60.0 ft.

V1/H2 - 46.0 ft.

V2/H3 - 60.0 ft.

V2/H4 - 36.0 ft.

Minimum vertical clearance:

V1/H1 - 20.5 ft. (west signal)

V1/H2 - 19.9 ft. (south signal)

V2/H3 - 19.7 ft. (west signal)

V2/H4 - 21.2 ft. (north signal)

1000/4 Refer to Parent Element

8518/4 New Comment:
CS4 3440:
V1/H1, V1/H2, V2/H3 and V2/H4 - The galvanic coating on the horizontal arm end cap is failing, allowing corrosion to form at each location. Refer to Photo 3. (4 SF)

3440/4 Refer to Parent Element

Total Number of ADE Elements*: 3

*excluding defects/protective systems

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DISTRICT: D5 - Deland

Inspection

INSPECTION DATE: 11/1/2021 BBLN

Structure Notes

Maintaining Agency:

City of Titusville
Kevin Cook, Public Works Director
445 S. Washington Ave.
Titusville, FL 32796
(321) 383-5746
kevin.cook@titusville.com

Plans are available at the District 5 Structures Maintenance office.

The year built was input as 2013 based on the fiscal design year found on plans for FIN Project ID #414975-1-52-01 plus 1 year.

INSPECTION NOTES: **BBLN** **11/1/2021**

A 42ft. insulated bucket truck was utilized for this inspection.

The NBI rating for Item 59 Superstructure was lowered from an 8 - Very Good to a 7 - Good to better reflect current conditions.

The NBI rating for Item 60 Substructure was lowered from an 8 - Very Good to a 5 - Fair due to loose leveling nuts at F2.

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Photo 1

Element 8480 / Foundation – Typical loose leveling nut at F2

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Photo 2

Element 8481 / Vertical – Unsecured pedestrian crosswalk button at V1

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Photo 3

Element 8484 / Horizontal – Surface corrosion on the horizontal arm end cap at V2/H3; typical at all four horizontal arms

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Photo 4

Element 8484 / Horizontal – Bird nest inside the horizontal arm at V1/H2

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DISTRICT: D5 - Deland**

Inspection

INSPECTION DATE: 11/1/2021 BBLN



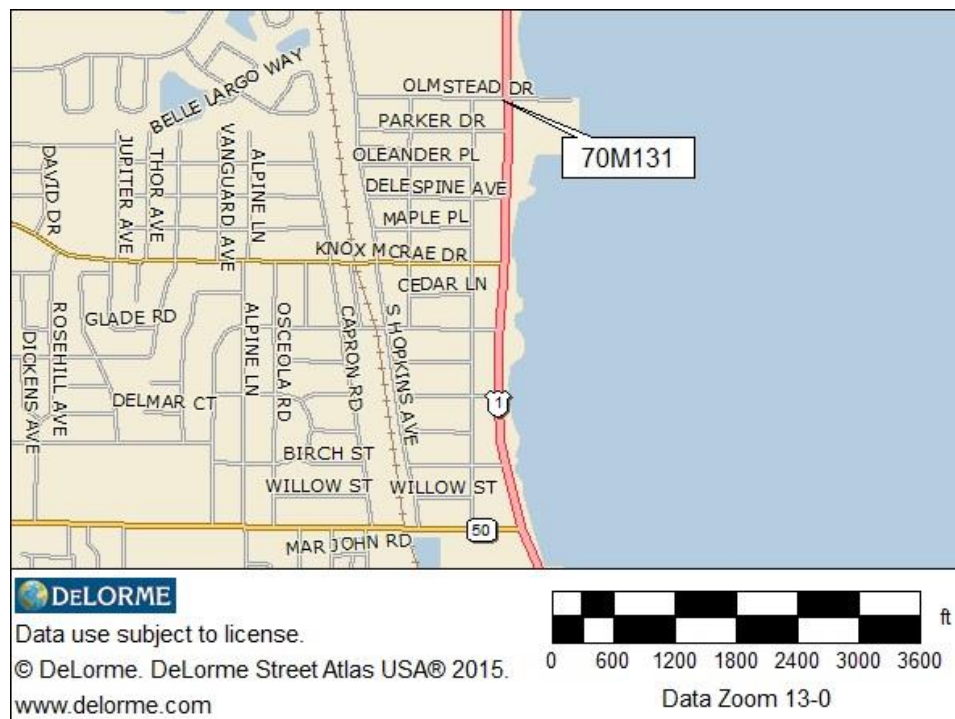
Photo 5

Element 8484 / Horizontal – Camera wiring running outside the horizontal arm at V1/H2

FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM APPENDIX

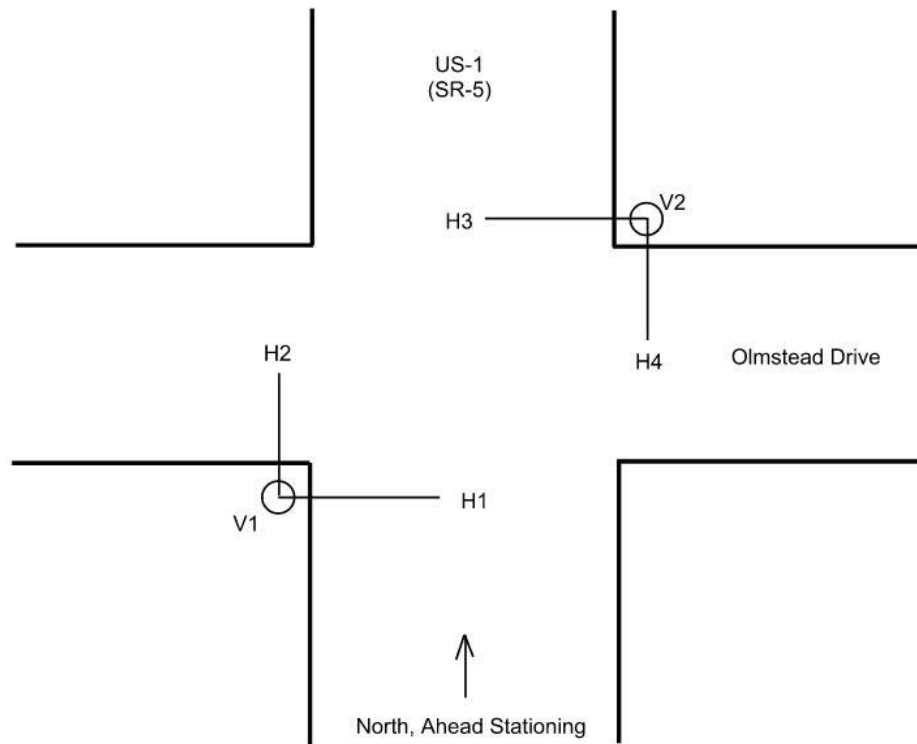
Mast Arm Structure No: 70M131Inspection Date: 11/1/2021Location: US-1 (SR-5) at Olmstead DriveType of Inspection: Routine

Structure Inventory Photo



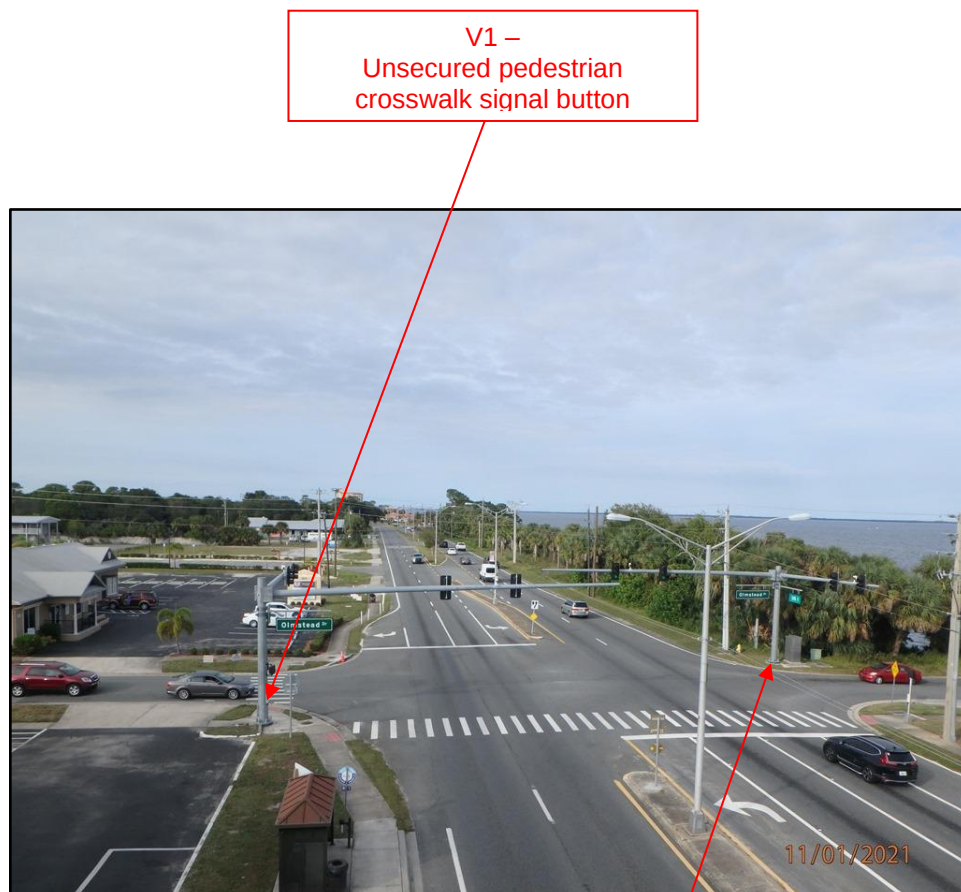
Location Map

FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM APPENDIX

Mast Arm Structure No: 70M131Inspection Date: 11/1/2021Location: US-1 (SR-5) at Olmstead DriveType of Inspection: Routine

Intersection Layout

FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM APPENDIX

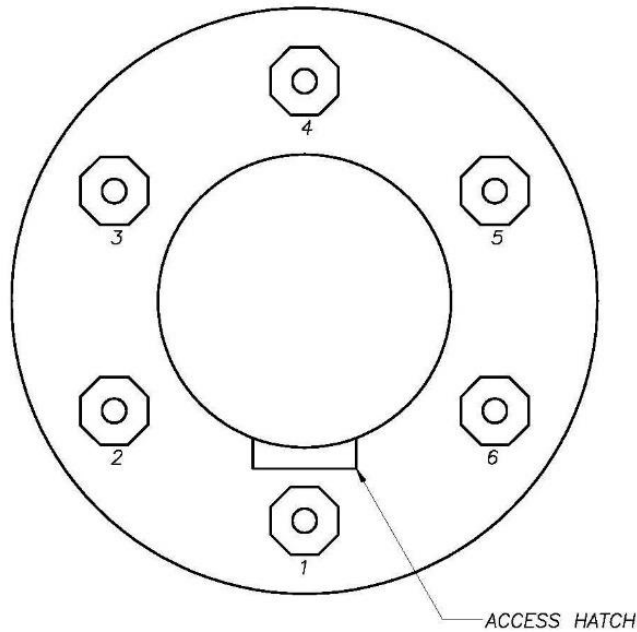
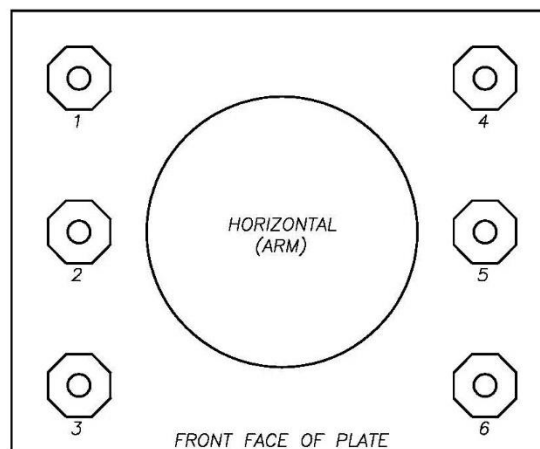
Mast Arm Structure No: 70M131Inspection Date: 11/1/2021Location: US-1 (SR-5) at Olmstead DriveType of Inspection: Routine

Deficiency Location Photo

F2 –
Loose leveling nuts

Preventative Repair Responsibilities
Local Agency: City of Titusville

FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM APPENDIX

Mast Arm Structure No: 70M131Inspection Date: 11/1/2021Location: US-1 (SR-5) at Olmstead DriveType of Inspection: RoutineTSMa ANCHOR BOLT NUMBERING SCHEMETSMa MOMENT CONNECTION BOLT NUMBERING SCHEME

FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

REPORT ID: INSP005

Inspection/CIDR Report with PDF attachment(s)

Structure ID: 70M131

TRAFFIC SIGNAL MAST ARM

DATE PRINTED: 12/9/2021

Description

Structure Unit Identification

Bridge/Unit Key: 70M131 1
 Structure Name: US-1 at Olmstead Drive
 Description: TSMA
 Type: M - Main

Structure Identification

Admin Area: Space Coast
 District (2): D5 - Deland
 County (3): (70)Brevard
 Location (9): 0.75 Miles N. of SR-50
 FIPS State/Region (1): 12 Florida Region 4-Atlanta
 NBIS Bridge Len (112): N - Does not meet NBI Length
 Maint. Resp. (21): 4 City/Municipal Hwy Agcy
 Owner (22): 1 State Highway Agency
 Previous Structure:
 2nd Previous Structure:
 Replacement Structure:

Age and Service

Year Built (27): 2013
 Year Reconstructed (106): 0
 Type of Service On (42a): Traffic Signal Mast Arm
 Under (42b): 1 Highway

Structure Type and Material

Main Span Material (43A): 3 Steel
 Main Span Design (43B): Traffic Signal Mast Arm

NBI Rating

Superstructure (59): 7 Good
 Substructure (60): 5 Fair

General Structure Information

Electrical Devices: Traffic control sys only
 Maintenance Yard: 590-Cocoa (590)

Mast Arm Managing Agency ID:
 Mast Arm Code: 2
 Mast Arm Description: Mast arm is inside the mast arm boundary area

Appraisal

Minimum Vertical Clearance

Over Structure (53): 99.9 ft
 Under (reference) (54a): H Hwy beneath struct
 Under (54b): 0 ft

Minimum Lateral Underclearance

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

Schedule

Current Inspection

Inspection Date: 11/01/2021
 Inspector: KNFITJS - Sanya Watts
 Bridge Group: CA523
 Alt. Bridge Group:
 Primary Type: Regular NBI
 Review Required: ☒

Next Inspection Date

Scheduled

NBI: 11/01/2026
 Element: 11/01/2026
 Other/Special:
 Inventory Photo Update Due: 11/30/2026

Inspection Types

Performed

NBI ☒ Element ☒ Other Special ☐

Inspection Intervals

Required (92)

Frequency (92)

Last Date (93)

Inspection Resources

Other Special ☐
 NBI

mos
 60 mos (91) 11/01/2021 (90)

Crew Hours: 1
 Flagger Hours: 0
 Helper Hours: 0
 Snooper Hours: 0

FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

REPORT ID: INSP005

Inspection/CIDR Report with PDF attachment(s)

Structure ID: 70M131

TRAFFIC SIGNAL MAST ARM

DATE PRINTED: 12/9/2021

Elements

Inspection Date: 11/01/2021 BBLN

MISCELLANEOUS : Other Elements

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
Structure Unit 1	8480 / 4	Mast Arm Foundation	1	50	1	50	0	.	0	.	2 (EA)
Structure Unit 1	1020 / 4	Connection	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
Structure Unit 1	8481 / 4	Metal Mast Arm Vertical	2	100	0	.	0	.	0	.	2 (EA)
Structure Unit 1	8518 / 4	Galvanized Steel	234	100	0	.	0	.	0	.	234 sq.ft

MISCELLANEOUS : Other Elements

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
Structure Unit 1	8484 / 4	Metal Mast Arm Horizontal	0	.	4	100	0	.	0	.	4 (EA)
Structure Unit 1	1000 / 4	Corrosion	0	.	4	100	0	.	0	.	4 (EA)
Structure Unit 1	8518 / 4	Galvanized Steel	543	99.27	0	.	0	.	4	0.73	547 sq.ft
Structure Unit 1	3440 / 4	Eff (Stl Protect Coat)	0	.	0	.	0	.	4	100	4 sq.ft

Total Number of ADE Elements*: 3

*excluding defects/protective systems

Inspection Information

Inspection Date: 11/01/2021

Type: Regular NBI

Inspector: KNFITJS - Sanya Watts

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The NBI rating for Item 59 Superstructure was lowered from an 8 - Very Good to a 7 - Good to better reflect current conditions.

The NBI rating for Item 60 Substructure was lowered from an 8 - Very Good to a 5 - Fair due to loose leveling nuts at F2.

Structure Notes

Maintaining Agency:

City of Titusville
Kevin Cook, Public Works Director
445 S. Washington Ave.
Titusville, FL 32796
(321) 383-5746
kevin.cook@titusville.com

Plans are available at the District 5 Structures Maintenance office.

The year built was input as 2013 based on the fiscal design year found on plans for FIN Project ID #414975-1-52-01 plus 1 year.

Schedule Notes

FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

REPORT ID: INSP005

Inspection/CIDR Report with PDF attachment(s)

Structure ID: 70M131

TRAFFIC SIGNAL MAST ARM

DATE PRINTED: 12/9/2021

Under Route Information

Roadway Identification

NBI Structure No (8): 70M131
 Position/Prefix (5): A - 1st Route Under
 Kind Hwy (Rte Prefix): 2 U.S. Numbered Hwy
 Design Level of Service: 1 Mainline
 Route Number/Suffix: 00001 / 0 N/A (NBI)
 District (2): D5 - Deland
 County (3): (70)Brevard
 Place Code (4): Titusville
 Feature Intersect (6): Olmstead Drive
 Roadway Name: US-1 (SR-5)
 Mile Point (11): 0.799
 Latitude (16): 028d34'08.2" Long (17): 080d47'54.5"

Roadway Traffic and Accidents

Lanes (28): 6 Medians: 1 Speed: 45 mph

Roadway Classification

Nat. Hwy Sys (104): 1 On the NHS
 National base Net (12): 1 - On Base Network
 LRS Inventory Rte (13a): 70 030 000 Sub Rte (13b): 00
 Functional Class (26): 14 Urban Other Princ
 Federal Aid System: ON
 Defense Hwy (100): 0 Not a STRAHNET hwy
 Direction of Traffic (102): 2 2-way traffic
 Emergency: ☒

Roadway Clearances

Vertical (10): 0 ft
 Horiz. (47): 0 ft Roadway (51): 0 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)

FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

REPORT ID: INSP005

Inspection/CIDR Report with PDF attachment(s)

Structure ID: 70M131

TRAFFIC SIGNAL MAST ARM

DATE PRINTED: 12/9/2021

Under Route Information

Roadway Identification

NBI Structure No (8): 70M131
 Position/Prefix (5): B - 2nd Route Under
 Kind Hwy (Rte Prefix): 5 City Street
 Design Level of Service: 1 Mainline
 Route Number/Suffix: 00000 / 0 N/A (NBI)
 District (2): D5 - Deland
 County (3): (70)Brevard
 Place Code (4): Titusville
 Feature Intersect (6): Olmstead Drive
 Roadway Name: Olmstead Dr.
 Mile Point (11): 0.000
 Latitude (16): 028d34'08.2" Long (17): 080d47'54.5"

Roadway Traffic and Accidents

Lanes (28): 2 Medians: 0 Speed: 30 mph

Roadway Classification

Nat. Hwy Sys (104): 0 Not on NHS
 National base Net (12): 0 - Not on Base Network
 LRS Inventory Rte (13a): 70 000 000 Sub Rte (13b): 00
 Functional Class (26): 19 Urban Local
 Federal Aid System: OFF
 Defense Hwy (100): 0 Not a STRAHNET hwy
 Direction of Traffic (102): 2 2-way traffic
 Emergency: ☐

Roadway Clearances

Vertical (10): 0 ft
 Horiz. (47): 0 ft Roadway (51): 0 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)