

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

Structure ID: 70M095

Inspection

DISTRICT: D5 - Deland

INSPECTION DATE: 3/27/2026 OKUL

BY:	Ayres Associates	STRUCTURE NAME:	US-1 (Hopkins Ave) SB at Julia St
OWNER:	1 State Highway Agency	YEAR BUILT:	2011
MAINTAINED BY:	4 City/Municipal Hwy Agy	SECTION NO.:	70 030 101
STRUCTURE TYPE:	3 Steel - Traffic Signal Mast Arm	MP:	0.663
LOCATION:	0.27 Mile South of SR-406	ROUTE:	00001
SERV. TYPE ON:	Traffic Signal Mast Arm	FACILITY CARRIED:	US-1 (Hopkins) SB
SERV. TYPE UNDER:	1 Highway	FEATURE INTERSECTED:	Julia St
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: 3/27/2026 UNDERWATER: N/A

SUFFICIENCY RATING: -1
HEALTH INDEX: 99.37

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INSPECTION DATE: 3/27/2026 OKUL

BY: Ayres Associates
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 MAINTAINED BY: 4 City/Municipal Hwy Agy
 STRUCTURE TYPE: 3 Steel - Traffic Signal Mast Arm
 LOCATION: 0.27 Mile South of SR-406
 SERV. TYPE ON: Traffic Signal Mast Arm
 SERV. TYPE UNDER: 1 Highway
 MAST ARM CODE: 2

STRUCTURE NAME: US-1 (Hopkins Ave) SB at Julia St
 YEAR BUILT: 2011
 SECTION NO.: 70 030 101
 MP: 0.663
 ROUTE: 00001
 FACILITY CARRIED: US-1 (Hopkins) SB
 FEATURE INTERSECTED: Julia St
 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: 3/27/2026 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: 7 Good SUFF. RATING: -1
 PERF. RATING: Performance Rating Not applicable or not calculable. HEALTH INDEX: 99.37

FIELD PERSONNEL / TITLE / NUMBER:

INITIALS

Howell, Tim - Bridge Inspector (CBI #00338) (lead)
 Vieau, Dick - Assistant Bridge Inspector

TPH

REVIEWING BRIDGE INSPECTION SUPERVISOR:

Maslyn, Rick - Bridge Inspector (CBI #00271)

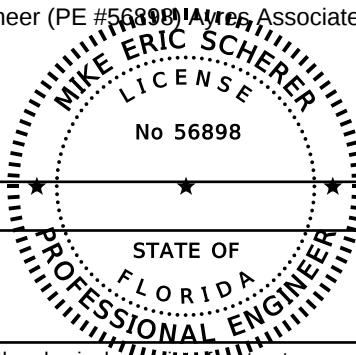
RM

CONFIRMING REGISTERED PROFESSIONAL ENGINEER:

Scherer, Michael - Professional Engineer (PE #56898) Ayres Associates
 8875 Hidden River Pkwy
 Suite 200
 Tampa FL 33637

SIGNATURE: _____

DATE: _____



THIS ITEM HAS BEEN DIGITALLY
 SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL.

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

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(TRAFFIC SIGNAL MAST ARM INSPECTION REPORT)

Structure ID: 70M095
DISTRICT: D5 - Deland

Inspection

INSPECTION DATE: 3/27/2026 OKUL

All Elements

MISCELLANEOUS : Other Elements

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
UNIT 0	8480 / 4	Mast Arm Foundation	1	50	0	.	1	50	0	.	2 (EA)
UNIT 0	1080 / 4	Delamination/Spall/Patched Area	0	.	0	.	1	100	0	.	1 (EA)

Element Inspection Notes:

8480/4 This element consists of 2 foundations.

NOTE: The anchor bolts below the base plate each have a full height & half height nuts installed. The stand-off measurement reflects the un-braced anchor bolt length between the top of the foundation and bottom of the bottom leveling nut.

CS-3 1080:

F1 - The top northeast edge of the foundation has a minor spall 6 in. L x 4 in. W X 1/2 in. D with no exposed steel. Refer to Photo 1. (1 EA)

INCIDENTAL:

F1 - (1) of (6) anchor bolt covers (AB#2) is missing. NEW Refer to Photo 2. REPAIR

CORRECTIVE ACTION TAKEN:

F1 & F2 - Heavy dirt & debris was removed from below the base plates and light corrosion on the anchor bolts & leveling nuts were cleaned painted by the inspectors during the 2026 Inspection.

FOUNDATION MEASUREMENTS:

Wire Screens: F1 = Yes; F2 = Yes.

Base Plate Thickness: F1 = 1 3/4 in.; F2 = 1 3/4 in.

Bolt Diameter: F1 = 1 1/2 in.; F2 = 1 1/2 in.

Nut Height: F1 = 1 1/2 in.; F2 = 1 1/2 in.

Jan Nut Height: F1 = 1 in.; F2 = 1 in.

Washer Thickness (above and below base plates): F1 = 1/4 in.; F2 = 1/4 in.

Average Distance Bottom of Base Plate to Foundation: F1= 3 in.; F2= 2 3/4 in.

Average Stand-Off Distance (un-braced length): F1= 1/4 in.; F2= 0 to 1/4 in.

1080/4 Refer to Parent Element

MISCELLANEOUS : Other Elements

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
UNIT 0	8481 / 4	Metal Mast Arm Vertical	2	100	0	.	0	.	0	.	2 (EA)
UNIT 0	8518 / 4	Galvanized Steel	144	100	0	.	0	.	0	.	144 sq.ft

Element Inspection Notes:

8481/4 This element consists of 2 verticals.

NOTE: All verticals have a properly connected ground wire.

INCIDENTAL:

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FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
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V1 & V2 - The compartment covers are missing the weatherproof gaskets. NO CHANGE. Refer to Photo 3. REPAIR

V2 - The compartment cover has (2) sheared bolts and (1) missing bolt due to the clip welded to the inside of the hand hole flange missing. NEW. Refer to Photo 4. REPAIR.

PREVIOUS CORRECTIVE ACTION EVALUATION:

V1 - Remove bird nest inside of column. The nesting material inside the column behind the compartment cover has been removed.

V1 & V2 - Install compartment cover gasket. The weatherproof gaskets have not been installed.

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

V1 - AH = 0.380 in.

V2 - AH = 0.380 in.

Length of mast arm vertical members in linear feet.

V1 - 22.0 ft.

V2 - 22.0 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
UNIT 0	8484 / 4	Metal Mast Arm Horizontal	3	100	0	.	0	.	0	.	3 (EA)
UNIT 0	8518 / 4	Galvanized Steel	276	100	0	.	0	.	0	.	276 sq.ft

Element Inspection Notes:

8484/4 This element consists of 3 horizontals.

CS1:

V2/H3 - The moment connection weld has an irregularity and the appearance of a crack on the toes of the weld around the entire circumference. The weld appears to have lapping from a lack of fusion. Previous dye penetrant and magnetic particle testing did not confirm the presence of a crack. This area should be monitored closely during future inspections. NO CHANGE.

INCIDENTAL:

V1/H1 & V2/H3 - Have heavy accumulation and V1/H2 has light accumulation of bird nesting material inside the horizontal arm interiors at the moment connections viewed with a borescope inserted thru the arm drain holes. No corrosion could be seen thru the nesting material and D-meter readings at 3 in., 12 in. & 24 in. from the moment connection taken at the 5, 6 and 7 o'clock positions did not indicate any reduction in section at this time. NEW. Refer to Photos 5, 6 & 7. REPAIR

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

V1/H1 = 0.255 in.

V1/H2 = 0.255 in.

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V3/H3 = 0.255 in.

Length of mast arm horizontal members in linear feet:

V1/H1 - 38.0 ft.

V1/H2 - 38.0 ft.

V2/H3 - 38.0 ft.

Minimum Vertical Clearance:

V1/H1 - 18.4 ft. (to north signal)

V1/H2 - 18.5 ft. (to east signal)

V2/H3 - 16.0 ft. (to street sign)

8518/4 Refer to Parent Element

Total Number of ADE Elements*: 3

*excluding defects/protective systems

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Structure ID: 70M095
 DISTRICT: D5 - Deland

Inspection

INSPECTION DATE: 3/27/2026 OKUL

Inspector Recommendations

UNIT: UNIT 0 MISCELLANEOUS

ELEMENT/ENV: 8480 / 4 Mast Arm Foundation

ELEM CATEGORY: Other Elements

CONDITION STATE	PRIORITY
1, 3 MMS Quantity: 1 mh Element Estimated Quantity: 1 (EA)	3
WORK ORDER RECOMMENDATION: F2 - Install the missing anchor bolt cover.	

ELEMENT/ENV: 8481 / 4 Metal Mast Arm Vertical

ELEM CATEGORY: Other Elements

CONDITION STATE	PRIORITY
1 MMS Quantity: 2 mh Element Estimated Quantity: 1 (EA)	3
WORK ORDER RECOMMENDATION: V2 - Repair & Install the compartment cover bolts.	
1 MMS Quantity: 2 mh Element Estimated Quantity: 2 (EA)	3
WORK ORDER RECOMMENDATION: V1 & V2 - Install weatherproof gasket for terminal compartment cover per FDOT Index 649-031.	

ELEMENT/ENV: 8484 / 4 Metal Mast Arm Horizontal

ELEM CATEGORY: Other Elements

CONDITION STATE	PRIORITY
1 MMS Quantity: 4 mh Element Estimated Quantity: 3 (EA)	3
WORK ORDER RECOMMENDATION: H1 H2 & H3 - Install screening at the moment connection plates to prevent nesting in arms.	

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DISTRICT: D5 - Deland

Inspection

INSPECTION DATE: 3/27/2026 OKUL

Structure Notes

Maintaining Agency:

City of Titusville

Kevin Cook, P.E.
Public Works Director
2910 Garden Street
Titusville, FL 32780
321-567-3846
kevin.cook@titusville.com

Joseph M. Arena
Traffic/Electrical Maintenance Supervisor
101 N. Singleton Av.
Titusville FL, 32796
Ph. 321-567-3820
joey.arena@titusville.com

Plans are available at the District 5 Structures Maintenance office.

The year built is 2011 and is based on date of final acceptance. Structures were built under Project #418647-1-52-01.

INSPECTION NOTES: **OKUL** **3/27/2026**

40 ft. insulated bucket truck was utilized for inspection.

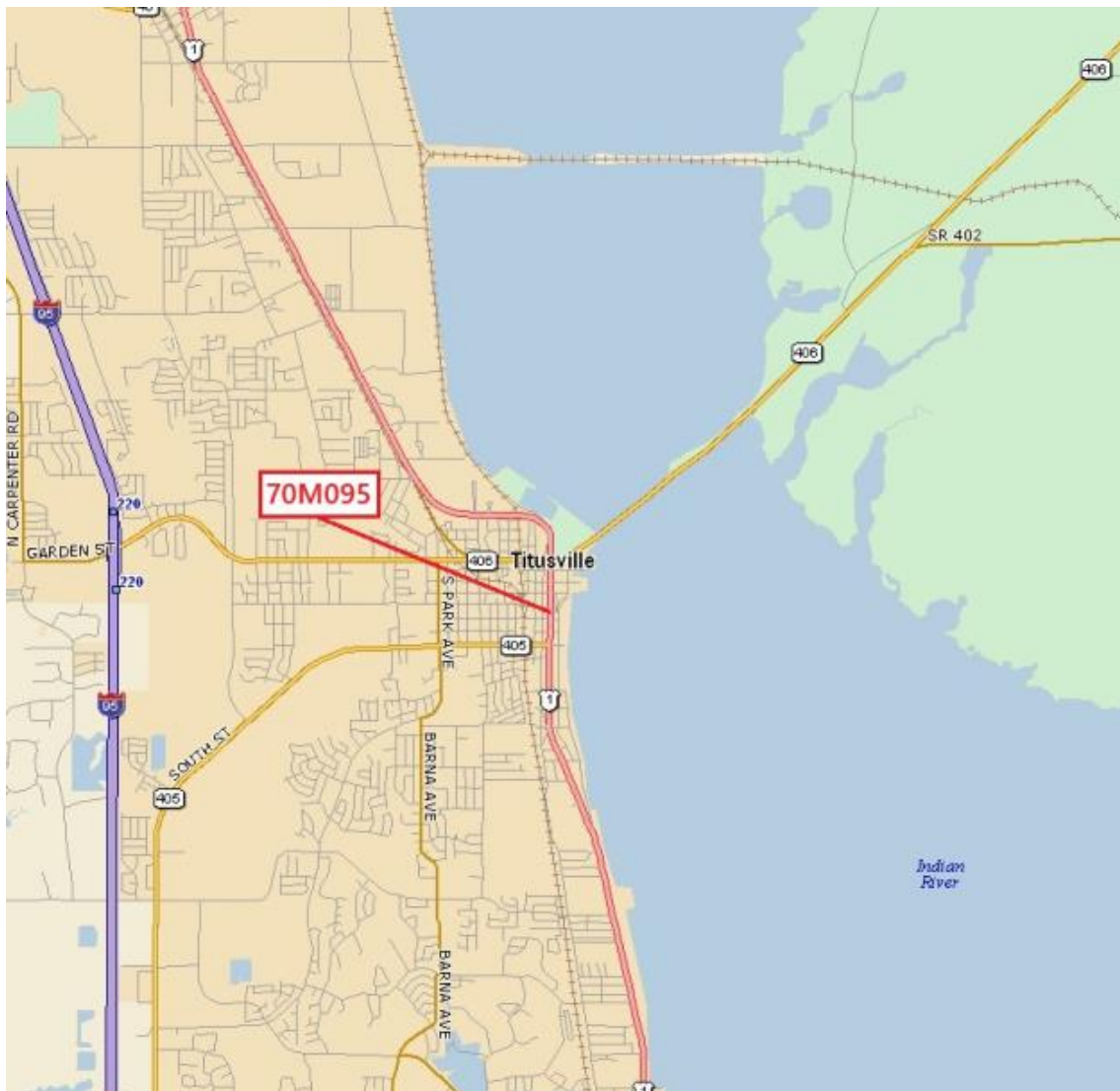
FLORIDA DEPARTMENT OF TRANSPORTATION
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DISTRICT: D5 - Deland

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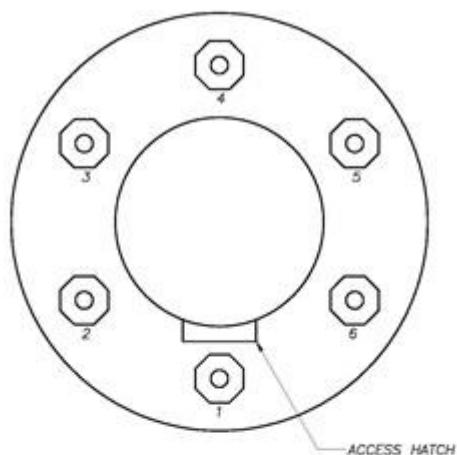
US-1 (Hopkins Ave.) SB @ Julia Street - 0.27 Miles South of SR-406 (Garden St.)

FLORIDA DEPARTMENT OF TRANSPORTATION
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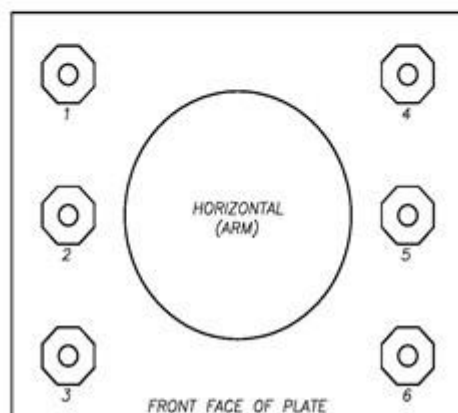
Structure ID: 70M095
 DISTRICT: D5 - Deland

Inspection

INSPECTION DATE: 3/27/2026 OKUL



TSM ANCHOR BOLT NUMBERING SCHEME



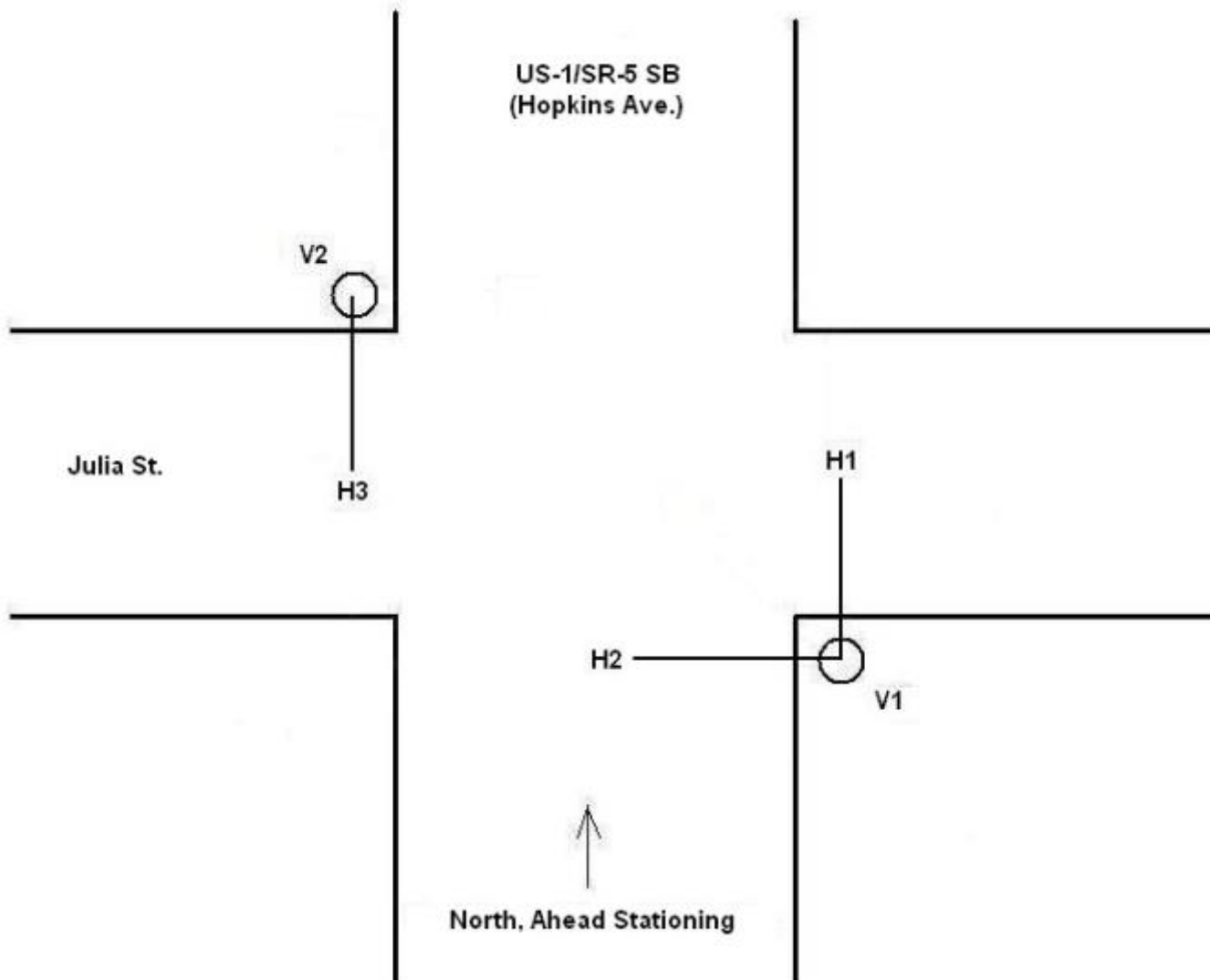
TSM MOMENT CONNECTION BOLT NUMBERING SCHEME

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Intersection Layout

**FLORIDA DEPARTMENT OF TRANSPORTATION
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Intersection Overview (Looking South)

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Photo 1 - Element 8480 Mast Arm Foundation

F1 - Top northeast quadrant with minor spall.

REPAIR RECOMMENDATION:
None.

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Photo 2 - Element 8480 Mast Arm Foundation

F2 - (1) of (6) missing anchor bolt covers (AB #2).

REPAIR RECOMMENDATION:

F2 - Install the missing anchor bolt cover.

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Structure ID: 70M095
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Inspection

INSPECTION DATE: 3/27/2026 OKUL



Photo 3 - Element 8481 Mast Arm Vertical

V1 & V2 - Typical terminal compartment cover missing the weatherproof gasket.

REPAIR RECOMMENDATION:

V1 & V2 - Install weatherproof gasket for terminal compartment cover per FDOT Index 649-031.

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Inspection

INSPECTION DATE: 3/27/2026 OKUL



Photo 4 - Element 8481 Mast Arm Vertical

V2 - Compartment cover with (2) sheared bolts and (1) missing due to broken clip.

REPAIR RECOMMENDATION:

V2 - Repair & Install the compartment cover bolts.

**FLORIDA DEPARTMENT OF TRANSPORTATION
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(TRAFFIC SIGNAL MAST ARM INSPECTION REPORT)**

**Structure ID: 70M095
DISTRICT: D5 - Deland**

Inspection

INSPECTION DATE: 3/27/2026 OKUL



Photo 5 - Element 8484 Mast Arm Horizontal

V1/H1 - Typical bird nesting material inside horizontal arm near the moment connection.

REPAIR RECOMMENDATION:

H1 H2 & H3 - Install screening at the moment connection plates to prevent nesting in arms.

**FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
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DISTRICT: D5 - Deland**

Inspection

INSPECTION DATE: 3/27/2026 OKUL



Photo 6 - Element 8484 Mast Arm Horizontal

V1/H2 - Typical bird nesting material inside horizontal arm near the moment connection.

REPAIR RECOMMENDATION:

H1 H2 & H3 - Install screening at the moment connection plates to prevent nesting in arms.

**FLORIDA DEPARTMENT OF TRANSPORTATION
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Inspection

INSPECTION DATE: 3/27/2026 OKUL



Photo 7 - Element 8484 Mast Arm Horizontal

V2/H3 - Typical bird nesting material inside horizontal arm near the moment connection.

REPAIR RECOMMENDATION:

H1 H2 & H3 - Install screening at the moment connection plates to prevent nesting in arms.

FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

REPORT ID: INSP005

Structure ID: 70M095

Inspection/CIDR Report TRAFFIC SIGNAL MAST ARM

DATE PRINTED: 5/4/2026

Description

Structure Unit Identification

Bridge/Unit Key: 70M095 1
 Structure Name: US-1 (Hopkins Ave) SB at Julia St
 Description: TSMA
 Type: M - Main

Structure Identification

Admin Area: Space Coast
 District (2): D5 - Deland
 County (3): (70) Brevard
Location (9): 0.27 Mile South of SR-406
 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): 2011
 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): 7 Good

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): 99.99 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: 03/27/2026
Inspector: KNAAATH - Tim Howell
 Bridge Group: CAT71
 Alt. Bridge Group:
 Primary Type: Regular NBI
 Review Required: ☒

Next Inspection Date Scheduled

NBI: 03/27/2031
Element: 03/27/2031
 Other/Special:
 Inventory Photo Update Due: 03/31/2031

Inspection Types Performed

NBI ☒ Element ☒ Other Special ☐

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

Other Special	☐	mos		Crew Hours: 2
NBI		60 mos (91)	03/27/2026 (90)	Flagger Hours: 0
				Helper Hours: 0
				Snooper Hours: 0

FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

REPORT ID: INSP005

Structure ID: 70M095

Inspection/CIDR Report TRAFFIC SIGNAL MAST ARM

DATE PRINTED: 5/4/2026

Elements

Inspection Date: 03/27/2026 OKUL

MISCELLANEOUS : Other Elements

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
UNIT 0	8480 / 4	Mast Arm Foundation	1	50	0	.	1	50	0	.	2 (EA)
UNIT 0	1080 / 4	Delamination/Spall/Patched Area	0	.	0	.	1	100	0	.	1 (EA)

MISCELLANEOUS : Other Elements

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
UNIT 0	8481 / 4	Metal Mast Arm Vertical	2	100	0	.	0	.	0	.	2 (EA)
UNIT 0	8518 / 4	Galvanized Steel	144	100	0	.	0	.	0	.	144 sq.ft

MISCELLANEOUS : Other Elements

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
UNIT 0	8484 / 4	Metal Mast Arm Horizontal	3	100	0	.	0	.	0	.	3 (EA)
UNIT 0	8518 / 4	Galvanized Steel	276	100	0	.	0	.	0	.	276 sq.ft

Total Number of ADE Elements*: 3

*excluding defects/protective systems

Inspection Information**Inspection Date:** 03/27/2026**Type:** Regular NBI**Inspector:** KNAAATH - Tim Howell**Inspection Notes:** 40 ft. insulated bucket truck was utilized for inspection.**Structure Notes**

Maintaining Agency:

City of Titusville

Kevin Cook, P.E.
Public Works Director
2910 Garden Street
Titusville, FL 32780
321-567-3846
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Joseph M. Arena
Traffic/Electrical Maintenance Supervisor
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Titusville FL, 32796
Ph. 321-567-3820
joey.arena@titusville.com

Plans are available at the District 5 Structures Maintenance office.

The year built is 2011 and is based on date of final acceptance. Structures were built under Project #418647-1-52-01.

Schedule Notes

FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

REPORT ID: INSP005

Structure ID: 70M095

Inspection/CIDR Report TRAFFIC SIGNAL MAST ARM

DATE PRINTED: 5/4/2026

Under Route Information

Roadway Identification

NBI Structure No (8): 70M095
 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): Julia St
 Roadway Name: US-1 (Hopkins Ave.) SB
 Mile Point (11): 0.663
 Latitude (16): 028d36'40.6" Long (17): 080d48'29.7"

Roadway Traffic and Accidents

Lanes (28): 2 Medians: 0 Speed: 40 mph

Roadway Classification

Nat. Hwy Sys (104): 1 On the NHS
 National base Net (12): 1 - On Base Network
 LRS Inventory Rte (13a): 70 030 101 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): 1 1-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

Structure ID: 70M095

Inspection/CIDR Report TRAFFIC SIGNAL MAST ARM

DATE PRINTED: 5/4/2026

Under Route Information

Roadway Identification

NBI Structure No (8): 70M095
 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): Julia St
 Roadway Name: Julia St
 Mile Point (11): 0.000
 Latitude (16): 028d36'40.6" Long (17): 080d48'29.7"

Roadway Traffic and Accidents

Lanes (28): 2 Medians: 0 Speed: 25 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)