CAMX

THE COMPOSITES AND ADVANCED MATERIALS EXPO

September 8 – 11 | 2025

Orlando, FL, USA

WE FORM THE FUTURE

Produced by

ACMA American Composites Manufacturers Association

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AMERICAN COMPOSITES MANUFACTURERS ASSOCIATION'S

CONSTRUCTION & INFRASTRUCTURE FORUM

AGENDA | Tuesday, September 9, 2025

10:30 AM – 12:00 PM Eastern
Orange County Convention Center
9800 International Dr.
Orlando, FL
Room: 307

Time	Item	Discussion Leader
10:30 am (10)	**1. Welcome & Introductions** a. ACMA Anti-Trust Policy b. Sign in using **QR code** c. Self-Introductions	**John Busel, ACMA** John Busel Group Group
10:40 am (20)	**2. Florida DOT Projects Using FRP** a. Q&A	**Steve Nolan, FDOT** Group
11:00 am (20)	**3. Government Relations Report** a. Post Fly-in Activities, Opportunities b. Q&A	**Dan Neumann, ACMA** Group
11:20 am (15)	**4. Using the ACMA LCA+EPD Generator** a. Process and deliverables b. Discussion / Q&A	**McKay Quinn, Trinity Consultants** Group
11:35 am (20)	**5. Standards Development Update** a. ACMA Standards b. Standards Advocacy Activity c. Discussion	 Susan Hilaski, ACMA John Busel, ACMA Group
11:55 am	**6. Wrap-up / CAMX Featured Sessions**	John Busel

Florida DOT Projects Using FRP

(Construction & Infrastructure Forum)

Opportunities, potential challenges, and working with the DOT

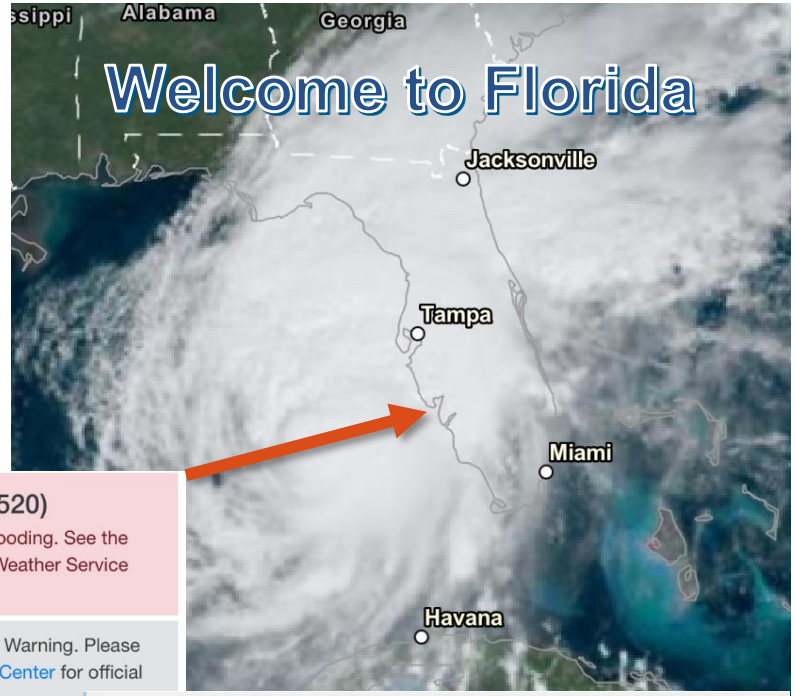
By: Steven Nolan[1] & Alex Lewis[2]

[1] Florida DOT State Structures Design Office

[2] Florida DOT State Materials Office

Steve Nolan, P.E.

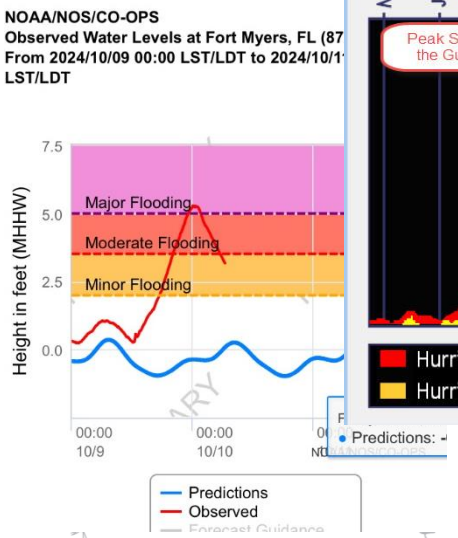
- Australian born, Florida resident since 1996
- B.Eng. Civil Engineering, UNSW, Sydney, 1990.
- Experience
  - 3.5 years in Heavy Civil Construction NSW, Leighton Contractors
  - 29 years FDOT, 26 in Structures Design Office
  - CAMX attendee first time 2014.
  - CAMX contributor 2015 to 2020.

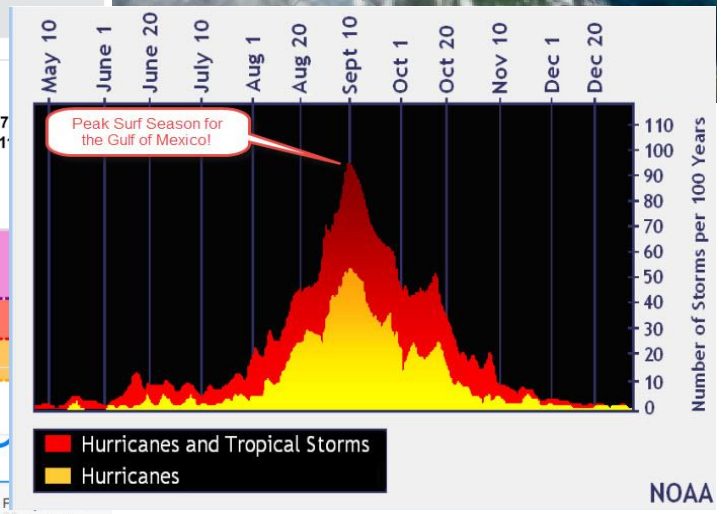


Fort Myers, FL (8725520)

Station may be experiencing flooding. See the NWS home page for National Weather Service coastal flood advisories.

Station is under a Storm Surge Warning. Please refer to the National Hurricane Center for official storm information.





PUT IT DOWN
IT'S THE LAW

FDOT
WE FORM THE FUTURE

CAMX

FDOT Construction & Infrastructure Materials

OVERVIEW: FLORIDA'S HIGHWAY CONSTRUCTION MATERIALS

ASPHALT

Asphalt bids ended the year at price levels of two years ago. Despite very high demand in some parts of the state, particularly Central Florida, reduced demand from other sectors freed up some resources in recent quarters. Contractors report more stability in binder and aggregate availability. Projected FDOT requirements, however, are estimated to test the limits of industry capacity in four of the five years of the current work program. On balance, TBG forecasts anticipate softening of prices, to post-COVID lows or in the $140 range.

CONCRETE

Concrete bids continued to rise this year, although declining in the last quarter. For the year, prices rose almost 20% overall, above the projected increase of 16%, although fourth quarter prices represent only a 10% increase over FY 2024. Suppliers anticipate further price increases, generally relating to tariffs directly, or market uncertainties around tariffs. Updated concrete price projections estimate further price reductions, to the $1,300 range by FY 2030. However, only in the lower bound scenario do prices dip to post-COVID lows.

STEEL

Steel and aluminum suppliers report more concern about tariffs than other suppliers, and expect 28% higher prices by year end. **Reinforcing steel bids fell at year end –** after reaching record highs earlier in the year. Forecasts, amid extreme uncertainty, show likely declines for structural and brief increases for reinforcing before declining with macroeconomic decline and reduced demand.

AGGREGATE

Aggregate base bids fell toward year end, but were still at very high levels relative to historical levels. Nationally and in Florida, crushed stone production was down but prices reported by publicly traded companies continue to show year-over-year increases in recent reports. Prices are expected to remain at current levels, but relatively flat, for the duration of the work program. In a lower bound scenario, prices fall rapidly, to pre-COVID levels.

EARTHWORK

Earthwork bids fell in FY 2025 to $15, from record highs. Contractors report that earthwork is the wild card that most keeps them up at night currently. Rapid development is forcing contractors to transport suitable material further, increasing trucking costs. Forecasts do not anticipate this situation to be resolved quickly, with only lower bound scenarios returning to post-COVID lows.

FRP-Composites ??? *Maybe next year*

FDOT FRP Products included in MAC

Materials Acceptance and Certification Reports

https://macreporting.fdot.gov/ReportsMainView/smoLink

- Pultruded Structural Shapes (GFRP) – 3 producers
- Vacuum Assisted Resin Transfer Molding – 2 common producers
- Reinforced Thermoplastic Structural Shapes (RTSS) – 1 producer
- Thermoplastic Timbers – 2 producers
- Concrete Reinforcing Bars (BFRP & GFRP) – 6 producers
- Prestressing Strands (CFCC) – 1 producer
- Externally Bonded Composites – 4 common FRP material suppliers
- …

FDOT Materials Acceptance and Certification System

Materials Acceptance and Certification Reports

Run your own reports at: https://macreporting.fdot.gov/ReportsMainView/smoLink

Select Report to View

Production Facility	
Active Prod Fclty w/Samples	
Agg FC Product Classification	Note: This report replaces the Approved Aggregate Products For Friction Course Report.
Aggregate Production Facility Listing	Lists all Aggregate Production Facilities
Aggregate Sources Timeline	Lists Approval of Aggregate Production Facility in the Date Range Specified. Reports a summary per year and total summary for the date range.
All Producers (Excel)	Lists all non-expired Production Facilities in an Excel file
Approved Aggregate Products From Mines or Terminals Listing	Lists Approved Aggregate Products for Mines or Terminals
Approved Products at Expired Mines or Terminals	A summary report to identify Approved Products at Expired Facilities, and approved Products at Terminals Expired at Mine
Asphalt Production Facility Listing	Lists all Asphalt Production Facilities
Asphalt Recycled Products	Approved Asphalt Recycled Products Report by Plant
Asphalt Targets	A listing of the asphalt gradation and gravity (Gsb) data for Asphalt Products per mine or terminal
Cementitious Materials Production Facility Listing	Lists Cementitious Materials Production Facilities
Coatings Production Facility Listing	Lists all Coatings Production Facilities
Fiber Reinforced Polymer Production Facility Listing	Lists all Fiber Reinforced Polymer Production Facilities

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Fiber Reinforced Polymer Production Facility Listing

FDOT State Materials Office, 5007 N.E. 39th Avenue, Gainesville, FL 32609 (352) 955-6600

Send Questions or Issues to System Admin(s) or Contact a MAC Admin
Report Technical Problems to the Service Desk @ 1-866-955-4357 (Help) or e-mail: Service Desk
Web Policies and Notices and Accessibility Statement

FDOT Materials Acceptance and Certification System

- Pultruded Structural Shapes (GFRP)
- Vacuum Assisted Resin Transfer Molding (VARTM)
- Reinforced Thermoplastic Structural Shapes (RTSS)

https://macreporting.fdot.gov/ReportsMainView/smoLink

FRP-01 CREATIVE PULTRUSIONS

Company: Creative Pultrusions, Inc.

Contact: CHAD BUNK
Phone: (814) 839-4186 ext 276
Physical Address:
214 Industrial Lane
Alum Bank, PA 15521

Email: cbunk@pultrude.com
Fax: (814) 839-4126
Mailing Address:
214 Industrial Lane
Alum Bank, PA 15521

QC Plan Status: Quality Control Plan ACCEPTED 5/21/2025

FRP FENDER PILES	Cylindrical Hollow Piles
FRP SHEET PILING	FRP sheet pile sections and system components
FRP SPLICE PLATES	Fender system component - wale splicing

FRP-13 COMPOSITE ADVANTAGE

Company: Composite Advantage LLC

Contact: JONATHAN FRANCIS
Phone: (937) 478-2728
Physical Address:
750 Rosedale Drive
Dayton, OH 45402

Email: jfrancis@compositeadvantage
Fax:
Mailing Address:
750 Rosedale Drive
Dayton, OH 45402

QC Plan Status: Quality Control Plan ACCEPTED 11/22/2022

FRP FENDER PILES	Cylindrical Hollow Piles
FRP SPLICE CHANNELS	Fender system component - wale splicing
FRP SPLICE PLATES	Fender system component - wale splicing
PLASTIC WALES/LUMBER	Plastic wales/lumber for bridge fender systems

FRP-26 STRONGWELL - ABINGDON "HIGHLANDS"

Company: Strongwell

Contact: Bhyrav Mutnuri
Phone: (276) 645-8078
Physical Address:
400 Commonwealth Avenue
Bristol, VA 24201

Email: bmutnuri@strongwell.com
Fax:
Mailing Address:
400 Commonwealth Avenue
Bristol, VA 24201

FRP-27 STRONGWELL - BRISTOL

Company: Strongwell

Contact: Bhyrav Mutnuri
Phone: (276) 645-8078
Physical Address:
400 Commonwealth Avenue
Bristol, VA 24201

Email: bmutnuri@strongwell.com
Fax:
Mailing Address:
400 Commonwealth Avenue
Bristol, VA 24201

QC Plan Status: Quality Control Plan ACCEPTED 3/13/2024

FRP SHEET PILING	FRP sheet pile sections and system components

FRP-05 TANGENT TECHNOLOGIES LLC - WINCHESTER VA PLANT

Company: Tangent Technologies LLC

Contact: Marc Hollahan
Phone: (952) 239-7089
Physical Address:
148-1 Lenoir Drive
Winchester, VA 22603

Email: marc.hollahan@tangentmaterials.
Fax: (540) 535-2152
Mailing Address:
148-1 Lenoir Drive
Winchester, VA 22603

QC Plan Status: Quality Control Plan ACCEPTED 7/19/2023

PLASTIC FENDER PILES	GFRP Reinforced Cylindrical Plastic Piles
PLASTIC WALES/LUMBER	Plastic wales/lumber for bridge fender systems

FRP-17 WAGNERS CFT

Company: Wagners CFT, LLC

Contact: Denis Wagner
Phone: (970) 999-2344
Physical Address:
11 Ballera Ct
Austral

Email: denis.wagner.jr@wagnerscft.co
Fax:
Mailing Address:
PO Box 151
Austral

QC Plan Status: Quality Control Plan ACCEPTED 5/30/2019

FRP FENDER PILES	Cylindrical Hollow Piles
FRP SQUARE FENDER PILES	Square, and Rectangular Hollow Piles
PLASTIC WALES/LUMBER	Plastic wales/lumber for bridge fender systems

FRP-28 WAGNERS CFT, TEXAS

Company: Wagners CFT, LLC

Contact: Denis Wagner
Phone: (970) 999-2344
Physical Address:
19077 S Highway 377
Cresson, TX 76035

Email: denis.wagner.jr@wagnerscft.
Fax:
Mailing Address:
19077 S Highway 377
Cresson, TX 76035

QC Plan Status: Quality Control Plan ACCEPTED 6/26/2025

FRP FENDER PILES	Cylindrical Hollow Piles

FDOT Materials Acceptance and Certification System

FRP-06 PULTRALL

Company: Pultrall Inc

Contact: Xavier Seynave
Phone: (418) 335-3202
Physical Address:
700 9eme rue Nord
Thetford Mines
Canada

Email: xavier.seynave@pultrall.com
Fax:
Mailing Address:
700 9eme rue Nord
Thetford Mines
Canada

QC Plan Status: Quality Control Plan ACCEPTED 10/25/2023

FRP-08 ATP

Company: ATP

Contact: Aniello Giamundo
Phone: (811) 948-7131
Physical Address:
via Campa 34
Italy

Email: a.giamundo@atp.sa.it
Fax:
Mailing Address:
via Campa 34
Italy

QC Plan Status: Quality Control Plan ACCEPTED 6/7/2023

FRP-11 TOKYO ROPE USA (MICHIGAN)

Company: Tokyo Rope MFG. CO., LTD

Contact: Akihide Iizuka
Phone: (734) 335-6037
Physical Address:
8301 Ronda Drive
Canton, MI 48187

Email: aki.iizuka@tokyoropeusa.com
Fax:
Mailing Address:
8301 Ronda Drive
Canton, MI 48187

QC Plan Status: Quality Control Plan ACCEPTED 5/24/2024

CFRP 7-STRAND 15.2	Carbon Fiber Reinforced Polymer 7-Strand, 15.2 mm (0.60")
CFRP U5.0 SPIRAL	Carbon Fiber Reinforced Polymer Spiral, U5.0

- Concrete Reinforcing Bars (BFRP & GFRP)
- Prestressing Strands (CFCC)
- Externally Bonded Composites suppliers

FRP-20 MATEENBAR COMPOSITE REINFORCEMENTS (CONCORD, NC)

Company: Mateenbar Composite Reinforcements

Contact: Mike Jewell
Phone: (509) 750-6859
Physical Address:
2011 Highway 49
Concord, NC 28027

Email: mike.jewell@mateenbar.c
Fax:
Mailing Address:
2011 Highway 49
Concord, NC 28027

QC Plan Status: Quality Control Plan ACCEPTED 12/11/2023

Type 0 - GFRP, #3, Straight	Glass Fiber Reinforced Polymer Bar, #3, Straight
Type 0 - GFRP, #4, Straight	Glass Fiber Reinforced Polymer Bar, #4, Straight
Type 0 - GFRP, #5, Straight	Glass Fiber Reinforced Polymer Bar, #5, Straight
Type 0 - GFRP, #6, Straight	Glass Fiber Reinforced Polymer Bar, #6, Straight
Type 0 - GFRP, #8, Straight	Glass Fiber Reinforced Polymer Bar, #8, Straight
Type III - GFRP, #3, Straight	Glass Fiber Reinforced Polymer Bar, #3, Straight
Type III - GFRP, #4, Straight	Glass Fiber Reinforced Polymer Bar, #4, Straight
Type III - GFRP, #5, Straight	Glass Fiber Reinforced Polymer Bar, #5, Straight
Type III - GFRP, #6, Straight	Glass Fiber Reinforced Polymer Bar, #6, Straight
Type III - GFRP, #8, Straight	Glass Fiber Reinforced Polymer Bar, #8, Straight

FRP-23 BASALT ENGINEERING, LLC

Company: Basalt Engineering LLC

Contact: MATT COMSTOCK
Phone: (610) 772-1828
Physical Address:
188 Brooke Road
Suite 150
Winchester, VA 22603

Email: mattc@basalt-usa.com
Fax:
Mailing Address:
188 Brooke Road
Suite 150
Winchester, VA 22603

QC Plan Status: Quality Control Plan ACCEPTED 12/28/2023

Type 0 - BFRP, #3, Straight	Basalt Fiber Reinforced Polymer Bar, #3, Straight
Type 0 - BFRP, #4, Straight	Basalt Fiber Reinforced Polymer Bar, #4, Straight
Type 0 - BFRP, #5, Straight	Basalt Fiber Reinforced Polymer Bar, #5, Straight
Type 0 - BFRP, #6, Straight	Basalt Fiber Reinforced Polymer Bar, #6, Straight
Type 0 - BFRP, #7, Straight	Basalt Fiber Reinforced Polymer Bar, #7, Straight

https://macreporting.fdot.gov/ReportsMainView/smoLink

FRP-25 MST REBAR INC.

Company: MST Rebar Inc.

Contact: Bari Haji
Phone: (416) 740-0377 ext 112
Physical Address:
200A Hanlan Road
Canada

Email: bari.h@mstbar.com
Fax:
Mailing Address:
200A Hanlan Road
Canada

QC Plan Status: Quality Control Plan ACCEPTED 1/9/2024

Type 0 - GFRP, #3, Bent	Glass Fiber Reinforced Polymer Bar, #3, Bent
Type 0 - GFRP, #3, Straight	Glass Fiber Reinforced Polymer Bar, #3, Straight
Type 0 - GFRP, #4, Bent	Glass Fiber Reinforced Polymer Bar, #4, Bent
Type 0 - GFRP, #4, Straight	Glass Fiber Reinforced Polymer Bar, #4, Straight
Type 0 - GFRP, #5, Bent	Glass Fiber Reinforced Polymer Bar, #5, Bent
Type 0 - GFRP, #5, Straight	Glass Fiber Reinforced Polymer Bar, #5, Straight
Type 0 - GFRP, #6, Bent	Glass Fiber Reinforced Polymer Bar, #6, Bent
Type 0 - GFRP, #6, Straight	Glass Fiber Reinforced Polymer Bar, #6, Straight
Type 0 - GFRP, #8, Bent	Glass Fiber Reinforced Polymer Bar, #8, Bent
Type 0 - GFRP, #8, Straight	Glass Fiber Reinforced Polymer Bar, #8, Straight
Type III - GFRP, #3, Straight	Glass Fiber Reinforced Polymer Bar, #3, Straight
Type III - GFRP, #4, Straight	Glass Fiber Reinforced Polymer Bar, #4, Straight
Type III - GFRP, #5, Straight	Glass Fiber Reinforced Polymer Bar, #5, Straight
Type III - GFRP, #6, Straight	Glass Fiber Reinforced Polymer Bar, #6, Straight
Type III - GFRP, #8, Straight	Glass Fiber Reinforced Polymer Bar, #8, Straight

Why use FRP materials for Bridges & Structures

- Florida maintains more than 159 million sq.ft. of bridge area *(13,048 total; 7285 FDOT bridges [2]);*
- Florida has more than 4,000 miles seawall-bulkheads [3].

WebTable 3. Shoreline hardening and population statistics by state *(1)*

	Hard sheltered shore (km)	Sheltered shore (km)	Hard sheltered shore (%)	Hard open shore (km)	Open shore (km)	Hard open shore (km)	Hard shore (km)	Total shore (km)	Hard shore (%)
Atlantic									
Connecticut	477	1907	25	0	0		477	1907	25
Delaware	287	2163	13	5	45	11	292	2208	13
DC	29	54	53	0	0		29	54	53
Florida*	2694	11 365	24	58	628	9	2752	11 992	23
Georgia	92	6340	1	14	158	9	106	6498	2
Gulf									
Alabama							356	2606	14
Florida*							4427	26 383	17

Seven Mile Bridge "New" and Old (Florida Keys)

Jupiter (FL)

Jet Ski and Boat spray

Gandy Blvd. seawall (Tampa Bay)

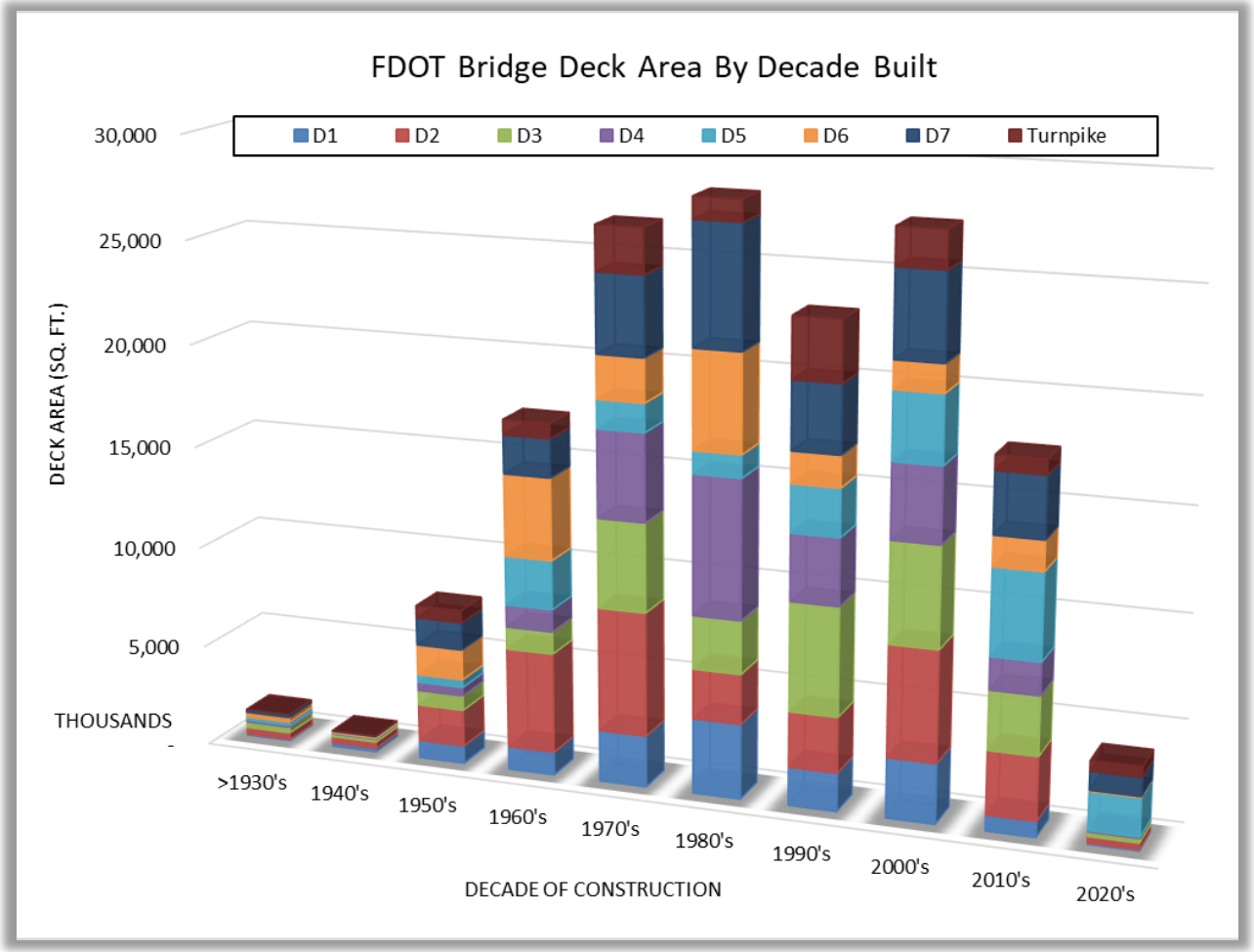
Recreational Boat Trailer bilge water

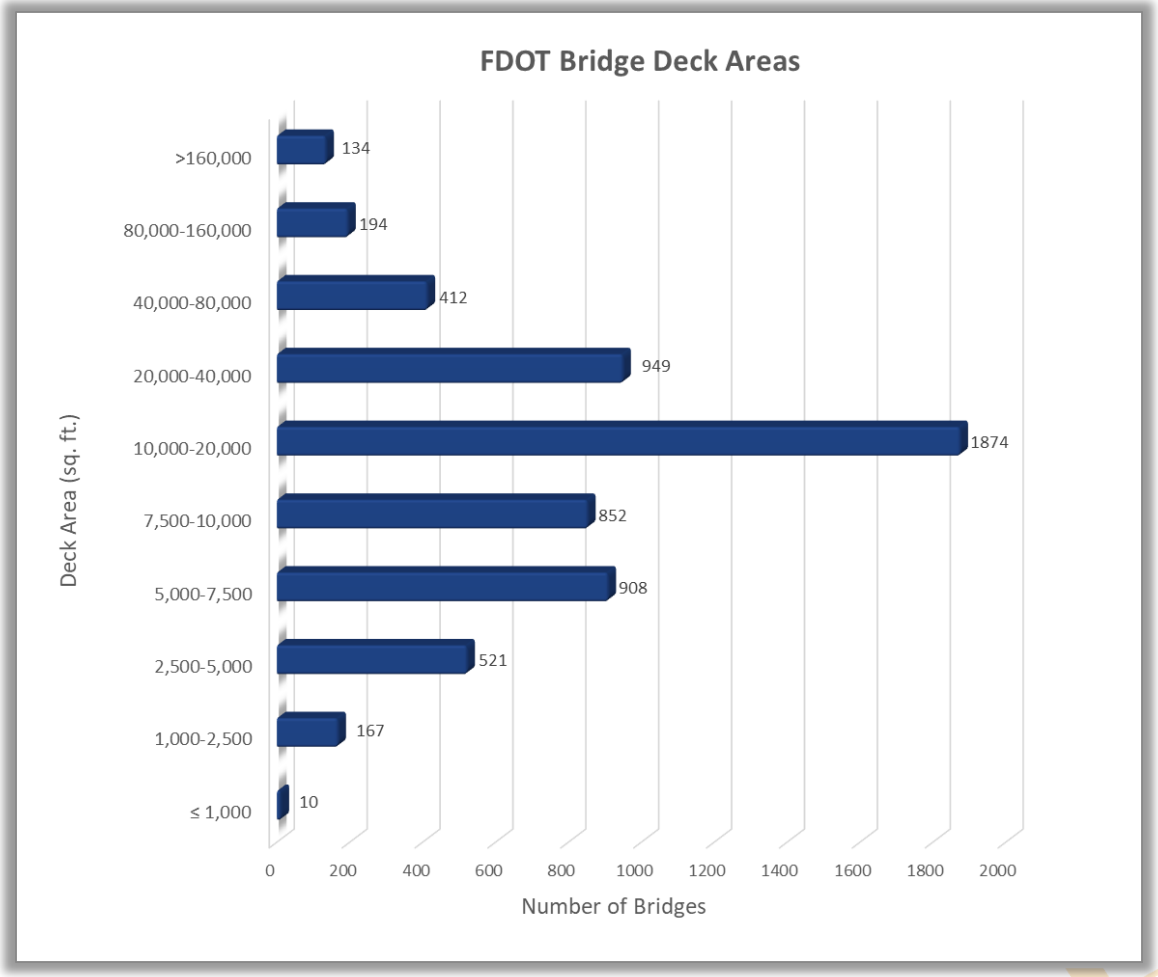
Lower Keys

(1) Gittman et al. (2015) https://esajournals.onlinelibrary.wiley.com/doi/abs/10.1890/150065
(2) FDOT Bridge Inventory – Bruno Vascelos (8/1/2025)
(3) Estimates from Gittman et al. (2015)

Why use FRP materials for Bridges & Structures

- Florida maintains more than 159 million sq.ft. of bridge area *(13,048 total; 7285 FDOT bridges [2]) average of 44-years old.*





(2) FDOT Bridge Inventory – Bruno Vascelos (8/1/2025)

Why use FRP materials for Bridges & Structures

- Compare to other countries… similar trends for aging bridge stock

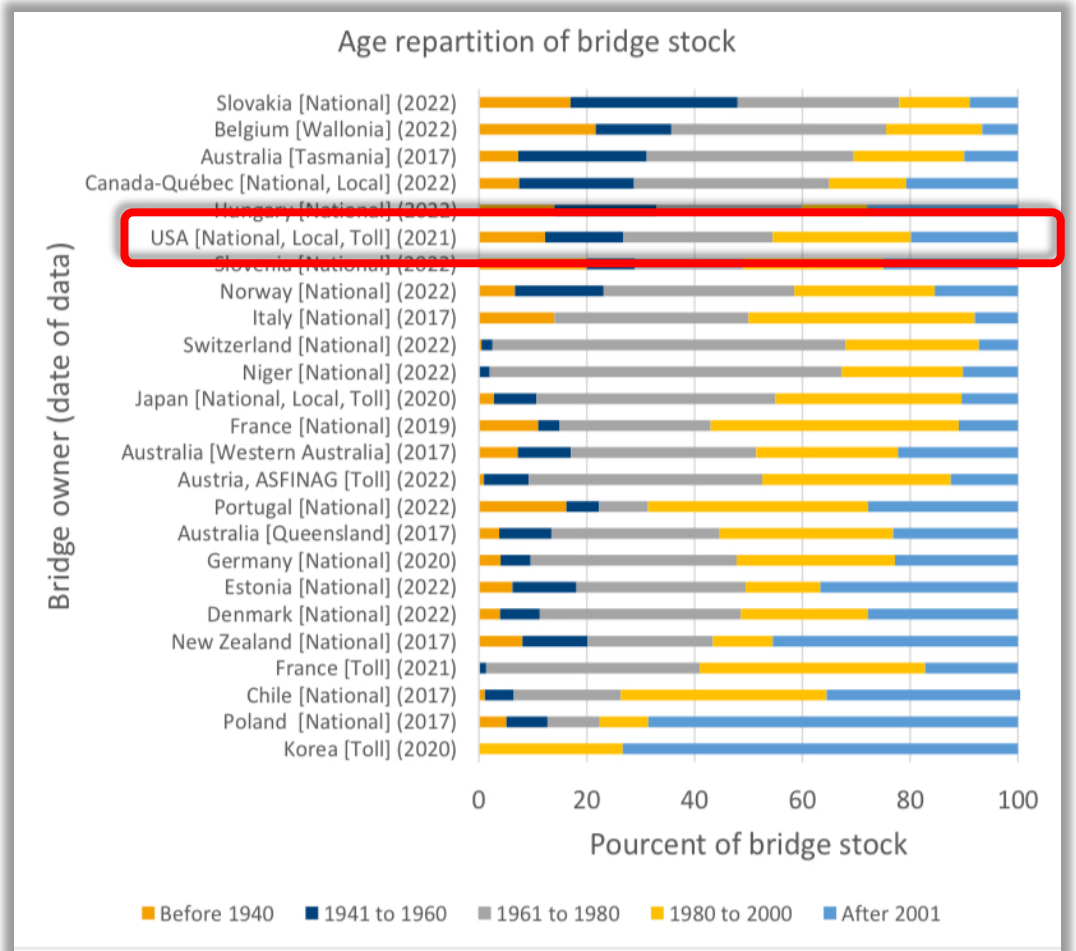


Figure 1- Age repartition of bridge stock

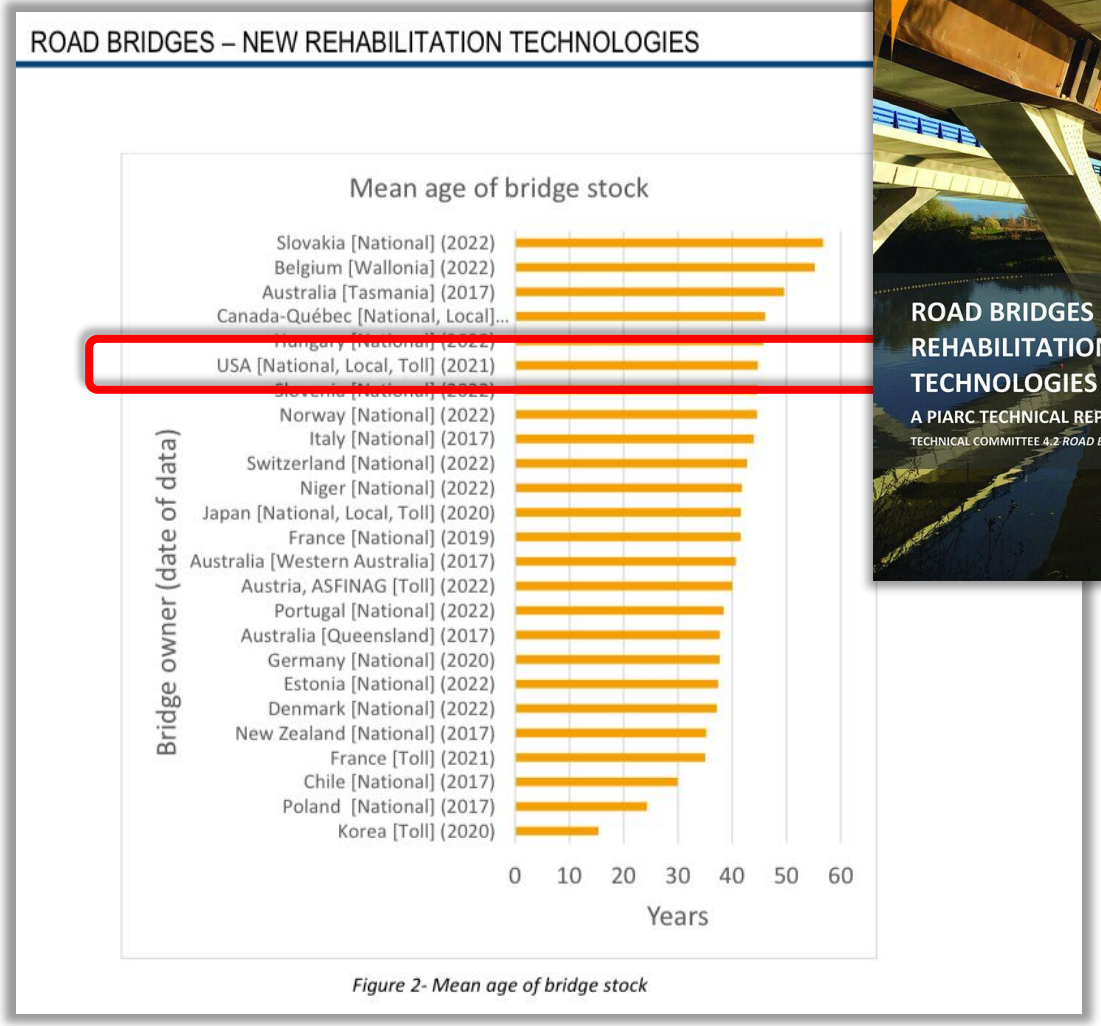
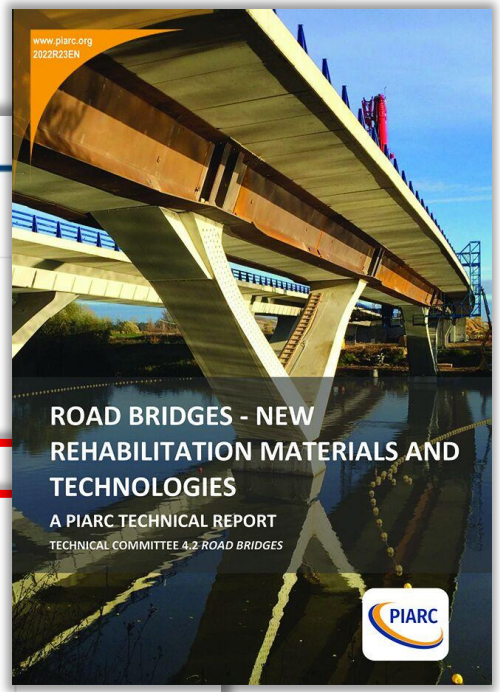
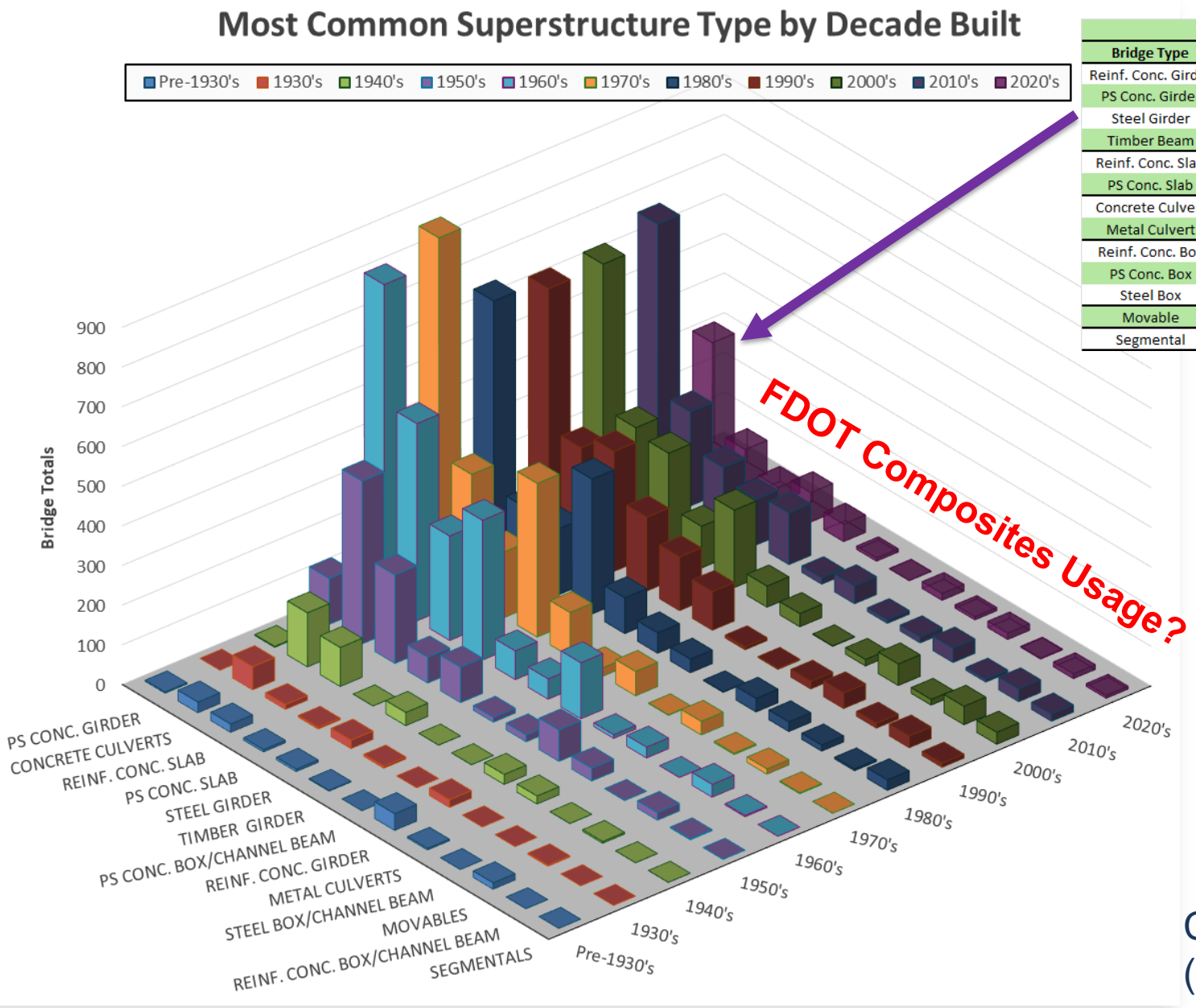


Figure 2- Mean age of bridge stock

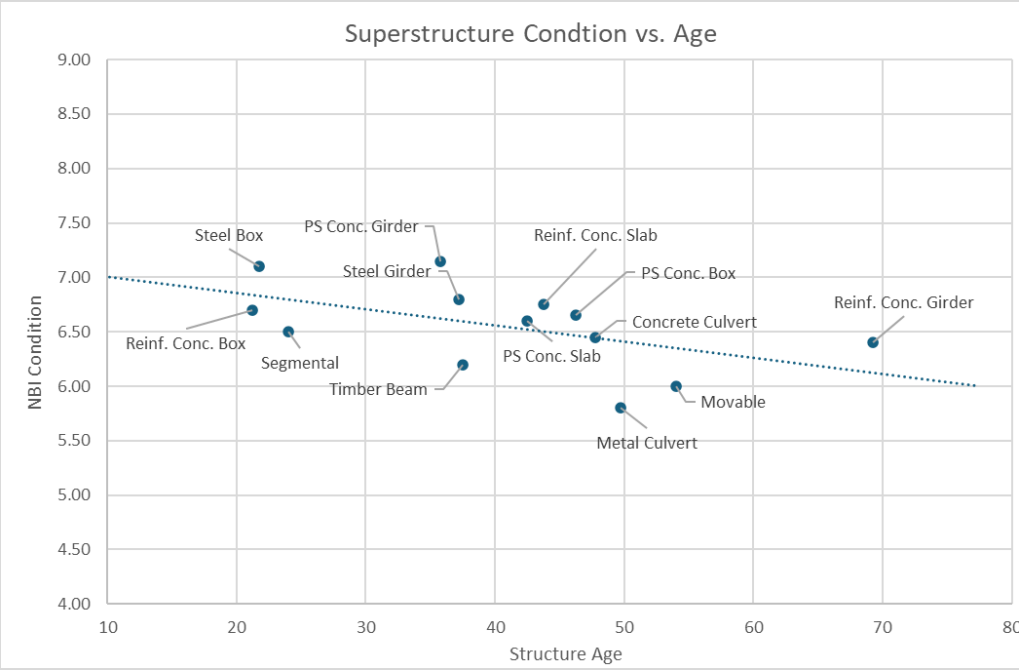


https://www.piarc.org/en/order-library/38668-en-Road Bridges – New Rehabilitation Materials and Technologies - Technical Report

Why use FRP materials for Bridges & Structures

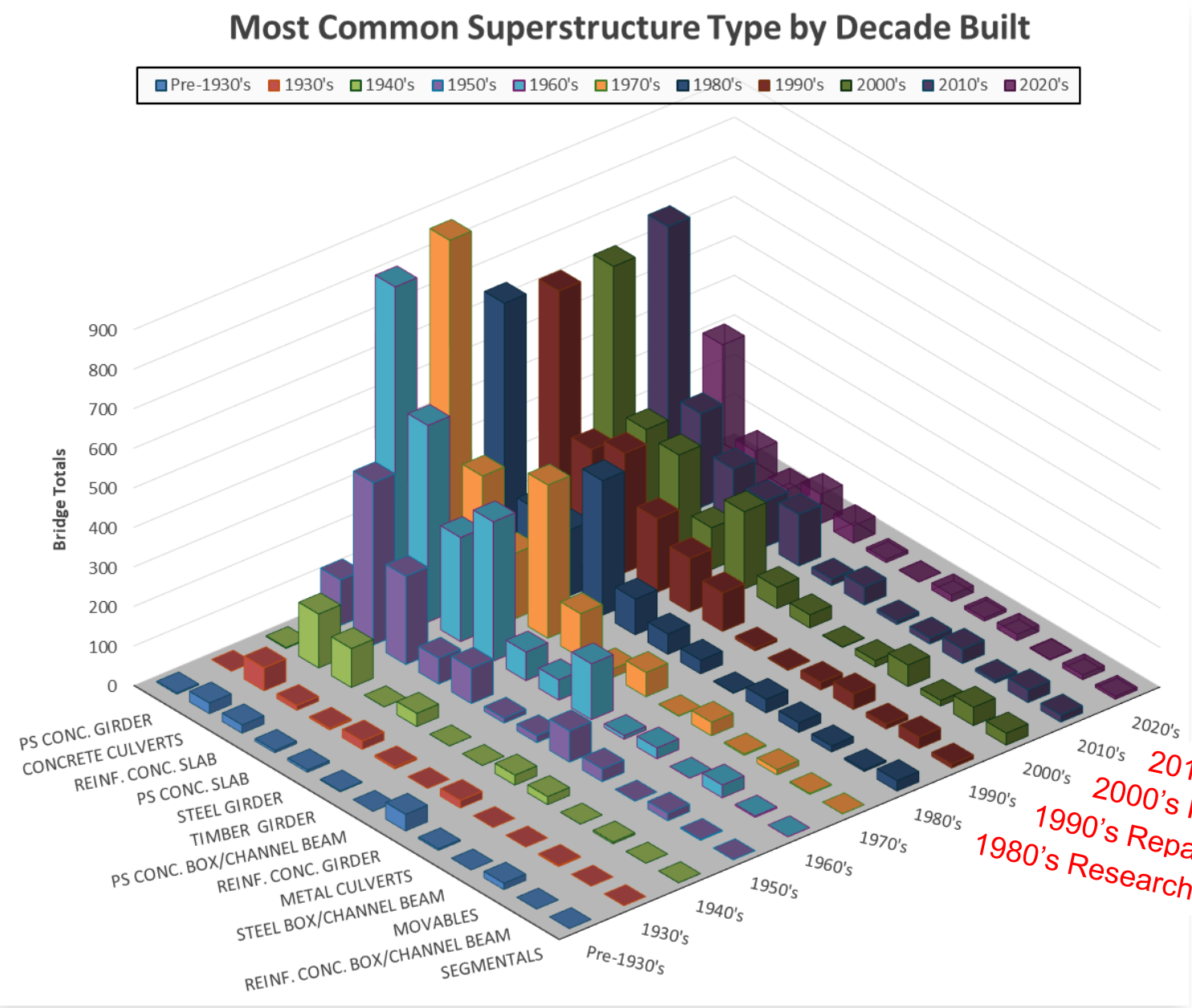


Average Figures per Most Common Superstructure Type								
Bridge Type	Total	Age	Total Length	Max Span	Deck Area	Deck	Super	Sub
Reinf. Conc. Girder	202	69.25	168.50	41	7,650.00	6.55	6.40	6.45
PS Conc. Girder	4614	35.75	420.75	88.5	25,781.00	7.00	7.15	7.20
Steel Girder	928	37.25	681.00	137.5	35,620.25	6.80	6.80	7.00
Timber Beam	314	37.50	60.00	14.25	1,272.50	6.25	6.20	5.85
Reinf. Conc. Slab	1669	43.75	121.50	27.75	6,184.25	6.70	6.75	6.70
PS Conc. Slab	1634	42.50	110.25	34	5,387.25	6.60	6.60	6.85
Concrete Culvert	2445	47.75	33.25	12	1,580.75	--	6.45	--
Metal Culvert	209	49.75	62.25	16.25	1,807.50	--	5.80	--
Reinf. Conc. Box	130	21.25	98.25	35.5	3,164.25	6.80	6.70	6.60
PS Conc. Box	339	46.25	124.50	47.5	5,807.00	6.85	6.65	6.85
Steel Box	172	21.75	913.00	207.75	43,572.00	7.15	7.10	7.30
Movable	137	54.00	808.25	133	40,323.75	6.35	6.00	6.50
Segmental	91	24.00	3135.00	225.5	150,851.75	6.95	6.50	7.35



Continuous deterioration over service life (even with maintenance)

Why use FRP materials for Bridges & Structures



AASHTO Innovation Initiative (A.I.I.)

- New Bridge Material Design Options (2011)
- Carbon Fiber Reinforced Polymer Strands (2014)

FHWA FRP Composite Technology

- Current Practices and Design Information
- Seminars, Training, and Research
- Other Resources

FDOT Composites Usage

2020's Composite Girders & Bridges?
2010's Internal Reinforcing
2000's Fender Systems
1990's Repair & Strengthening
1980's Research

How: FRP materials used for Strengthening & Repair of Bridges

- Repair from Over-height Truck Impact damage.
- Restoration due to Corrosion damage.
- Girder Strengthening for load capacity.

Strengthening – Corrosion Damage

Strengthening – Load Deficiency

How: FRP rebar used for Restoring Corroded Bridge Foundations

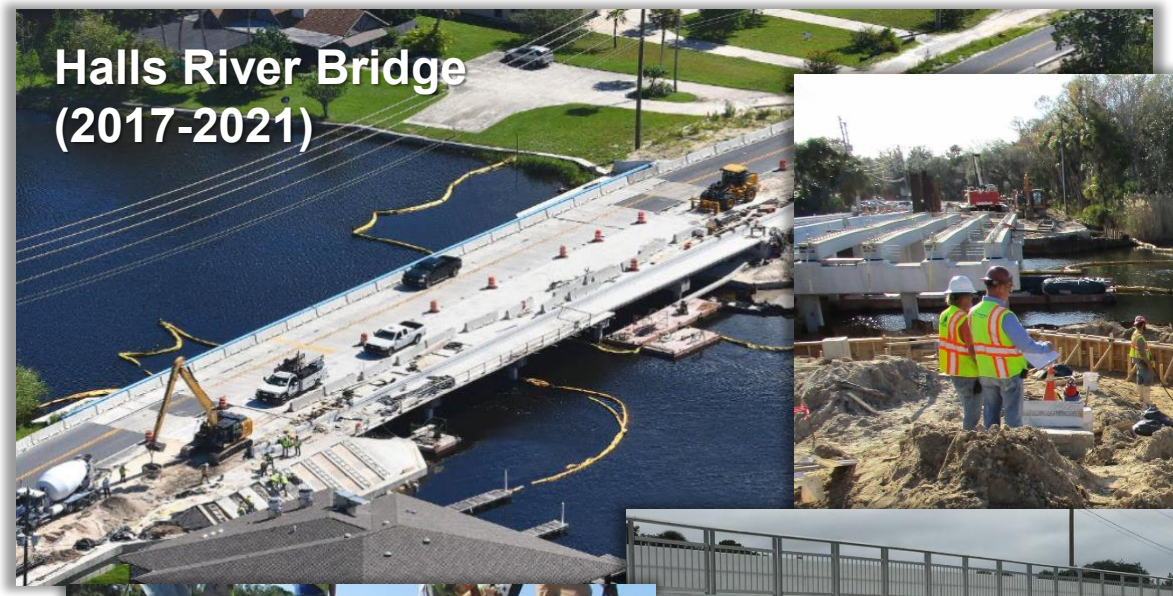
- Pier Repairs with FRP reinforcing:

How: FRP rebar for New and Replacing Bulkhead Walls protecting Bridge Abutments

- Bulkhead & Seawall Cap Replacements:

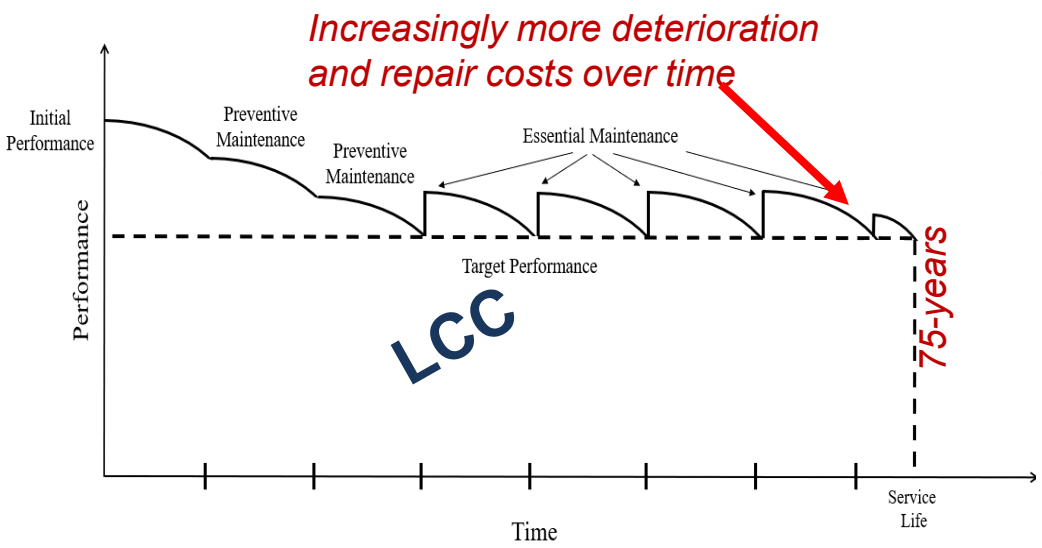
How: FRP materials used for Complete Bridges

- Halls River Bridge: https://www.fdot.gov/structures/innovation/hallsriverbridgeworkshop/default.shtm
- 40th Ave NE over Placido Bayou: http://www.40thavenuebridge.com/

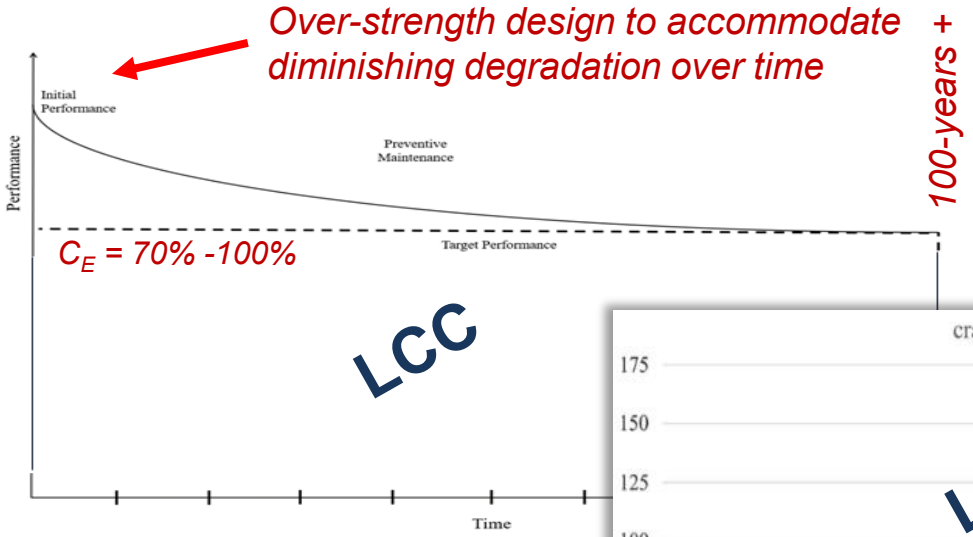


Benefits: FRP based on Cost & Sustainability (Life-Cycle Cost & Assessment)

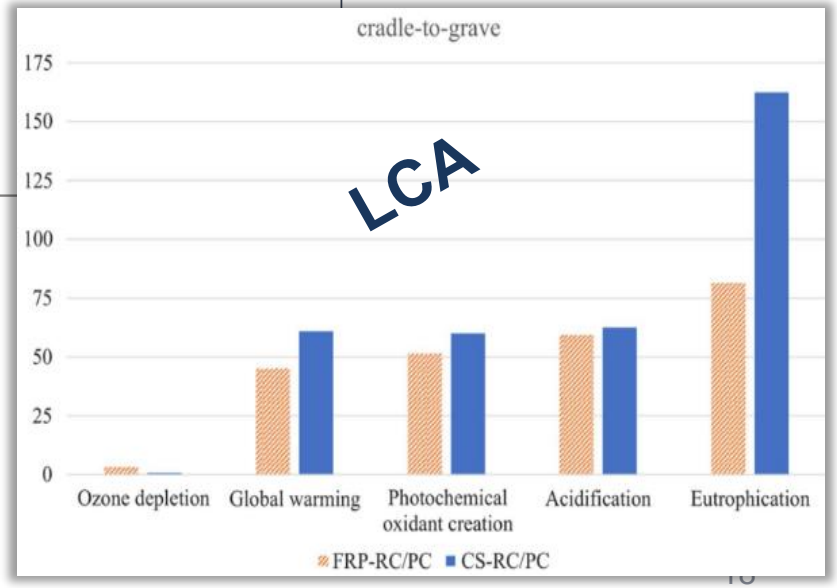
LCC & LCA can show the sustainable (economic and environmental) advantage of composite structures in the coastal environment:



Conventional-RC/PC process

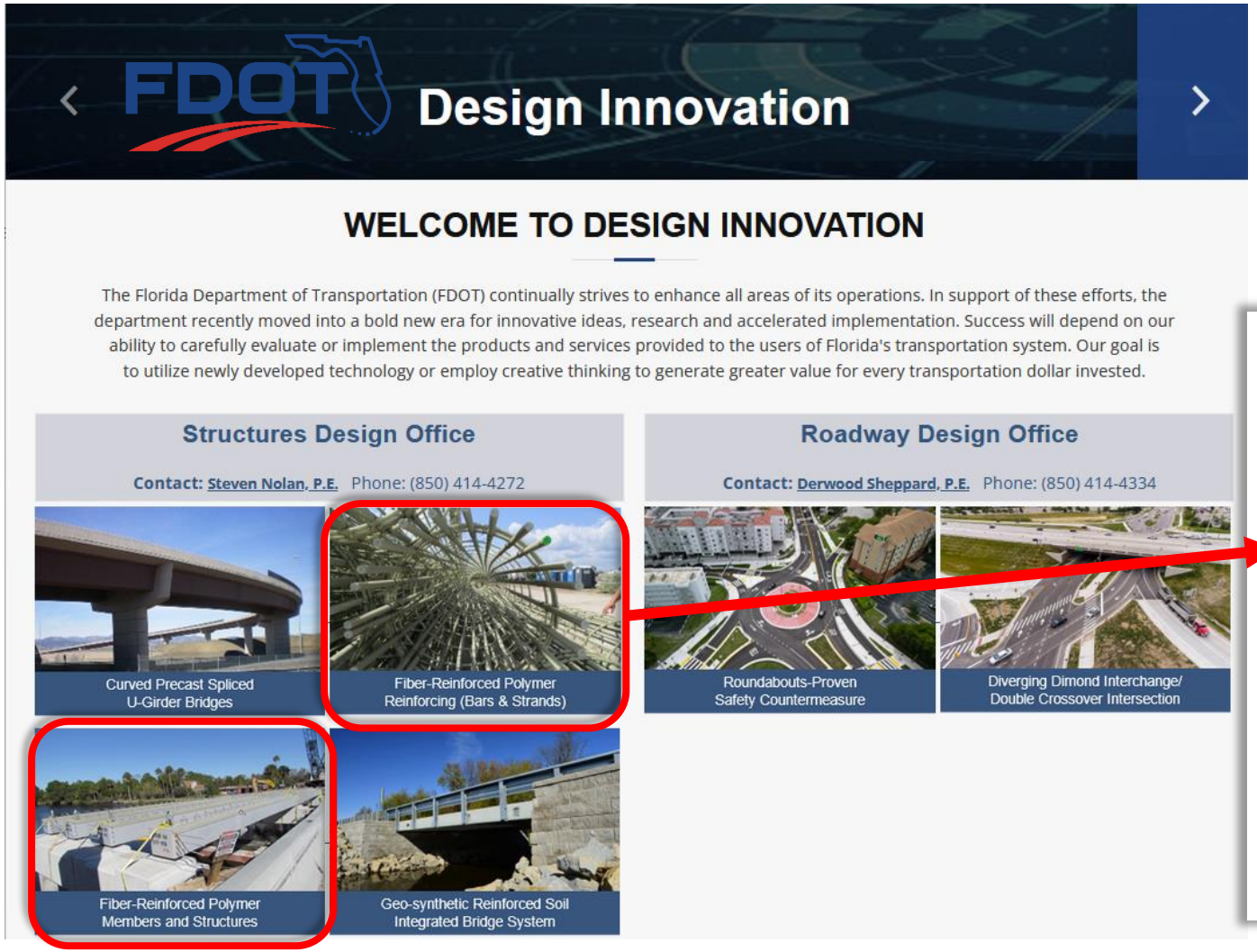


FRP alternatives



Charts: Cadenazzi, T., Dotelli, G., Rossini, M., Nolan, S., and A. Nanni. (2019). Cost and Environmental Analyses of Reinforcement Alternatives for a Concrete Bridge. Structure and Infrastructure Engineering. https://doi.org/10.1080/15732479.2019.1662066

Committed to Implementing FRP Products



FRP Products Approval (SMO & MAC):
https://www.fdot.gov/materials/quality/programs/materialsacceptance/documentation/frp.shtm

Structures Design Office

- Curved Precast Spliced U-Girder Bridges
- Fiber Reinforced Polymer Reinforcing *[since 2015]*
- FRP Members and Structures *[since 2019]*
- Geosynthetic Reinforced Soil Integrated Bridge System
- Geosynthetic Reinforced Soil Wall
- Prefabricated Bridge Elements and Systems
- Segmental Block Walls
- Ultra-High Performance Concrete (UHPC)

https://www.fdot.gov/design/innovation/

Where to Find FRP Project Bid Information

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E#xx Contracts (# = District 1 thru 8)

2024 Centra

2024 Lettings

- January 31, 2024
- February 28, 2024
- March 27, 2024
- April 17, 2024
- April 24, 2024
- May 15, 2024
- May 22, 2024
- June 12, 2024
- June 19, 2024
- July 31, 2024
- August 14, 2024
- August 28, 2024
- September 25, 2024
- October 30, 2024
- November 13, 2024
- December 4, 2024

2024 Award & Posting / Bid T

- January 31, 2024
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- April 17, 2024
- April 24, 2024
- May 15, 2024
- May 22, 2024

Florida Department of Transportation
Bid Solicitation Notice and Approximate Quantities

Letting: CT240522 Call Order: 003 Proposal: T2959 District:02
Counties: ST JOHNS
Road Name: SR 5A (US 1 / KING ST)
Limits: OVER SAN SEBASTIAN RIVER, BRIDGE NO 780003

Project(s): 43742815201(*) Federal Aid No: D223043B
Project(s): 44355415201 Federal Aid No: N/A

Total Roadway Length:	0.682 Miles	Contract Days:	570
Total Bridge Length:	0.047 Miles	Letting Date:	05/22/24
Total Proposal Length:	0.729 Miles	Contract Execution Days:	10
		Special Start Date:	N/A
		Aquis/Flexible Start Time:	60 Days

Proposal Budget Estimate: $19,098,769.00

Please read the full advertisement

Description:

The Improvements under this Contract consist of bridge construction, soil improvements, milling and resurfacing, base work, drainage improvements, curb and gutter, sidewalks, temporary signalization, intelligent transportation systems work, signing and pavement markings, lighting, and other incidental construction for the SR 5A (US 1) (King Street) over the San Sebastian River, Bridge No. 780003 in St. Johns County.

Marine Liability Insurance Required

As per Section 7-13.5 of the Specifications for this project, please provide Marine General Liability insurance providing continuous coverage for third-party personal injury and property damage caused by vessels used by the contractor in the performance of the work. If not using vessels or equipment over navigable waters in the performance of the work, please provide documentation prior to contract execution.

Call Order: 003 Proposal: T2959

ALT	Item	Description	Unit	Quantity
Section 0001 Structures				
	0110- 3-	REMOVAL OF EXISTING STRUCTURES/BRIDGES (43742815201)	LS	1.000
	0400- 2- 10	CONCRETE CLASS II, APPROACH SLABS	CY	170.300
	0400- 4- 5	CONCRETE CLASS IV, BRIDGE SUBSTRUCTURE	CY	172.400
	0400- 4- 47	CONCRETE CLASS IV, CAST IN PLACE TOPPING WITH SHRINKAGE REDUCING ADMIXTURE	CY	586.700
	0400- 7- 1	BRIDGE DECK GROOVING	SY	999.000
	0400- 9- 1	BRIDGE DECK PLANING	SY	999.000
	0400-148-	PLAIN NEOPRENE BEARING PADS	CF	19.600
	0415- 1- 9	REINFORCING STEEL- APPROACH SLABS	LB	27,169.000
	0415- 10- 4	FIBER REINFORCED POLYMER BARS, #4 BAR	LF	23,004.000
	0415- 10- 5	FIBER REINFORCED POLYMER BARS, #5 BAR	LF	98,807.000
	0415- 10- 6	FIBER REINFORCED POLYMER BARS, #6 BAR	LF	12,343.000
	0415- 10- 8	FIBER REINFORCED POLYMER BARS, #8 BAR	LF	5,107.000

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- April 17, 2024
- April 24, 2024
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- May 22, 2024

Important Letting Documents

- 60 Day Advertisement
- 30 Day Advertisement
- Bid Items
- DBE Availability
- Fuel Allocations
- Work Class Breakouts
- Plan & Proposal Holders
- Mandatory Pre-Bid Meeting Attendance
- Supplements

Proposal ID	County	Major Work Type
T4655	Palm Beach	Milling & Resurfacing / Drainage Improvements / Base Work / Embankment / Clear Grubbing
T1865	Collier	Add Lanes & Reconstruct / Bridge Construction / Drainage Improvements / Base
T2959	St. Johns	**MOVED TO JUNE 12, 2024 LETTING**

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BID RANKINGS:

Florida Department of Transportation 04/30/2025

Vendor Ranking Page 1 of 1

Letting: CT250430 April 30, 2025 10:30 AM **Call Order:** 002 **Contract:** T2A28
District: District 2 **Counties:** ST JOHNS **Fed Aid No:** D223043B
Contract Time: 570 AVAILABLE DAYS **Project(s):** 43742815201 (*)
Contract Desc: SR 5A (US 1/KING ST) OVER SAN SEBASTIAN RIVER BRIDGE NO...

Rank	Vendor	Bid Type	Bid Status	Total Bid	Percent Of Low Bid
1	COXWELL, J.B. CONTRACTING, INC.	Responsive	Winning bid	$13,385,441.25	100.00%
2	SUPERIOR CONSTRUCTION COMPANY SOUTHEAST, LLC	Responsive	Non-Winning Bid	$13,776,273.65	102.92%

Florida Department of Transportation 08/01/2025

Vendor Ranking Page 1 of 1

Letting: 06250731 July 31, 2025 10:30 AM **Call Order:** 001 **Contract:** E6P31
District: District 6 **Counties:** MONROE **Fed Aid No:** N/A
Contract Time: 1250 AVAILABLE DAYS **Project(s):** 44623115201 (*)
Contract Desc: SR5/US1 OVER MOSER CHAN-BR#900101-BRIDGE-REP/REH

Rank	Vendor	Bid Type	Bid Status	Total Bid	Percent Of Low Bid
1	FREYSSINET, INC.	Responsive	Winning bid	$17,733,650.80	100.00%
2	SEACOAST INCORPORATED	Responsive	Non-Winning Bid	$19,677,272.00	110.96%
3	SOUTHERN ROAD & BRIDGE, LLC	Responsive	Non-Winning Bid	$25,873,082.00	145.90%
4	STRUCTURAL TECHNOLOGIES, LLC	Responsive	Non-Winning Bid	$26,125,154.60	147.32%

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BID ITEM COST COMPARISONS (designated)

Florida Department of Transportation **04/30/2025**

Tabulation of Bids Page 2 of 64

Letting: CT250430 April 30, 2025 **Call Order:** 002 **Contract:** T2A28

Line No / Item ID Item Description ( ) indicates item is bid as Lump Sum	Alternate	Quantity Units	(1) COXWELL, J.B. CONTRACTING, INC.		(2) SUPERIOR CONSTRUCTION COMPANY SOUTHEAST, LLC		(3) ARCHER WESTERN CONSTRUCTION, LLC	
			Unit Price	Ext Amount	Unit Price	Ext Amount	Unit Price	Ext Amount
SECTION: 0001		**Structures**						
0035 0400148 PLAIN NEOPRENE BEARING PADS		19.600 CF	1,290.00000	25,284.00	1,000.00000	19,600.00	2,000.00000	39,200.00
0040 0415 1 9 REINFORCING STEEL- APPROACH SLABS		27,169.000 LB	2.20000	59,771.80	1.12000	30,429.28	1.35000	36,678.15
0045 0415 10 4 FIBER REINFORCED POLYMER BARS, #4 BAR		23,004.000 LF	3.75000	86,265.00	2.12000	48,768.48	1.90000	43,707.60
0050 0415 10 5 FIBER REINFORCED POLYMER BARS, #5 BAR		98,807.000 LF	4.10000	405,108.70	2.12000	209,470.84	2.25000	222,315.75
0055 0415 10 6 FIBER REINFORCED POLYMER BARS, #6 BAR		12,343.000 LF	2.60000	32,091.80	2.12000	26,167.16	4.25000	52,457.75
0060 0415 10 8 FIBER REINFORCED POLYMER BARS, #8 BAR		5,107.000 LF	5.50000	28,088.50	2.12000	10,826.84	4.75000	24,258.25

Where to Find FRP Project Bid Information

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E#xx Contracts (# = District 1 thru 8)

BID ITEM COST COMPARISONS (included)

Florida Department of Transportation — **08/01/2025**

Tabulation of Bids — Page 1 of 11

Letting: 06250731 July 31, 2025 **Call Order:** 001 **Contract:** E6P31
District: District 6 **Counties:** MONROE **Fed Aid No:** N/A
Contract Time: 1250 AVAILABLE DAYS **Project(s):** 44623115201 (*)
Contract Descr: SR5/US1 OVER MOSER CHAN-BR#900101-BRIDGE-REP/REH

The improvement under this contract consists of bridge repair rehabilitation along SR5/US1 Overseas Hwy Seven Mile Bridge over Moser Channel Bridge #900101. Prequalification is required.

Line No / Item ID / Item Description / ( ) indicates item is bid as Lump Sum	Alternate	Quantity / Units	(1) FREYSSINET, INC. Unit Price	(1) Ext Amount	(2) SEACOAST INCORPORATED Unit Price	(2) Ext Amount	(3) SOUTHERN ROAD & BRIDGE, LLC Unit Price	(3) Ext Amount
SECTION: 0001 Structures								
0005 0103 2 5 TEMPORARY SHORING, TYPE 1 - INTERIOR PIERS 44623115201 900101		(1.000) LS	1,514,000.00000	1,514,000.00	845,000.00000	845,000.00	2,650,000.00000	2,650,000.00
0010 0103 2 6 TEMPORARY SHORING, TYPE 2 - EXPANSION PIERS 44623115201 900101		(1.000) LS	2,780,000.00000	2,780,000.00	5,300,000.00000	5,300,000.00	9,588,000.00000	9,588,000.00
0015 0103 2 7 TEMPORARY SHORING, TYPE 3 - HIGH LEVEL PIERS 44623115201 900101		(1.000) LS	647,000.00000	647,000.00	450,000.00000	450,000.00	1,288,000.00000	1,288,000.00
0020 0400140 1 NEOPRENE PAD REPLACEMENT, BENT/PIER		110.000 EA	6,640.00000	730,400.00	4,500.00000	495,000.00	2,100.00000	231,000.00
0025 0400142 3 CATHODIC PROTECTION SYSTEM, ZINC ALUMINUM SPRAY		21,141.000 SF	83.00000	1,754,703.00	40.00000	845,640.00	52.00000	1,099,332.00
0030 0400142 4 CATHODIC PROTECTION SYSTEM, ZINC ALUMINUM SHEETS		810.000 SF	325.00000	263,250.00	125.00000	101,250.00	905.00000	733,050.00

Thank you for your attention

Questions?

Contact Information:

Alex Lewis, E.I.
State Materials Office
Florida Department of Transportation
Gainesville, FL.
Email: *alex.lewis@dot.state.fl.us*

Contact Information:

Steven Nolan, P.E.
State Structures Design Office
Florida Department of Transportation
Tallahassee FL.
Email: *steven.nolan@dot.state.fl.us*
Website: *https://www.fdot.gov/design/Innovation/*

Supporting information for Case Studies – D1

(LEGEND: GREY = COMPLETE; BLACK = ONGOING; RED = CURRENT STATUS)

1. **Skyway Rest Area** (Design-Build: 437635-1, 437973-1 & 438528-1), E1P44, Fast-Facts: *bulkhead cap replacement; xCR-sheet pile wall extension & traffic railings – complete.*
2. **US41 over Morning Star & Sunset Waterways (435390-1), T1742, Fast-Facts: Link-slab details (GFRP & BFRP) – 2/27/19 letting, (Bid Tabs) – status: completed 10/30/20.**
3. **US41 over North Creek (433550-3), T1747, Fast-Facts: piles (HSSS-PC), wall panels, flat-slab, traffic railings, 8/28/19 letting (Bid Tabs)** – *status: **completed 7/7/21.***
4. **I-275 Skyway South Approach Wave Attenuation, Manatee County (438528-2) E1U62 Design-***Build* RFP*: RC wave attenuation device (WAD) to be either FRP or SS reinforced,* Advertised *1/10/22, Executed 4/20/22. **status**: Only using FRC to be used in precast WAD units.*
5. **Harborview Rd**, Charlotte Harbor (434965-2) GoMap, 3 CIP Box Culverts under consideration–*11/14/2025 Production, no letting date - **status**: Phase III Plans due 4/25/2025.*
6. **Caxambas Ct/Roberts Bay, Marco Island** xCR low-level bridge. PD&E under 445460-1 *Letting date 8/27/2026 - **status**: Preliminary BDR 11/22/2024.*
7. **East Periwinkle Bridge Replacement** (City of Sanibel) *(452819-1) $0.75M PEG G2W66, $2.5M const.* Low-level bridge replacement. ***status**: Preliminary design*
8. **Sanibel Island Causeway Restoration** *(452819-1) $6.6M CG H1719 S2870* GFRP-RC Bulkhead Seawall Caps ***status**: Under construction*
9. **Little Pine Island Bridge Replacement** *(451937-2), **H1I24 D-B**,* EOR: RS&H, FRP-PC Piles & FSB's, GFRP-RC Bent Caps, GFRP Bulkhead Cap, *letting 9/29/2023 – **Status:** FSB delivery in early March*

Supporting information for Case Studies – D2

(LEGEND: GREY = COMPLETE; BLACK = ONGOING; RED = CURRENT STATUS)

10. **Cedar Key: SR24/Channel 3 (**432194-1*)* E2T70*,* Fast-Facts*: Test Blocks 1-yr baseline (Knight), Letting 7-15-2015 – benchmarking complete. Waiting for next sampling date (2022?)*
11. **SR117 (Norwood Ave) over Moncrief Ck** (437438-1), **T2810***, letting 5/26/21.* Bid Tabs*: CFRP-PC 24" piles casting at Gate – **status**: Pile type changed to conventional steel strands and silica fume in concrete. NTP: 8/12/21 Time Began:11/08/21. Project is 88% paid with 96% time utilized. Project Completion: Spring 2023.*
12. **SR-A1A/Myrtle & Simpson Creeks** (434041-1 & 434042-1), T2772, Fast-Facts, GFRP-RC link slabs *5/20/20 letting* (Bid Tabs) – ***status**: completed 2023.*
13. **SR5A/King St from SR-A1A to Baywall** (430897-1), **E20T7**, GFRP-RC Bulkhead Cap (#6 bars) on steel king pile sheet pile wall. 9/14/2022 Letting (Bid Tabs) – ***status:** Completed 3/1/2024*
14. **Various Bridges over Sante Fe & Suwanee Rivers** (437442-1), **E20W3,** *GoogleMap-*260006, 310007, 370023 & 370030*:* Pile Jackets with GFRP rebar *(Tuf-N-Lite)* (8,715 LF), 6/8/2022 letting, Bid Tabs – ***status**: Completed 1/26/24.*
15. **SR5 over Oyster Creek** (433843-2), T2819**,** GoMap: weir/bulkhead rebar (*D2-PD&E-Rito Rodriguez/IEI), 10/27/21 letting,* Bid Tabs – ***status:** Project expanded. 81% completed. Weir/bulkhead completed 2024.*
16. **US1/King St over San Sebastian River** (437428-1) T2959 GoMap: Using GFRP-RC overlay for FSBs, bent caps and xCR-piles, *5/22/25 new letting,* BSN - ***status**: Bids received.*
17. **CR 357 over Shired Creek** (437402-1) GoMap*:* xCR-FSB Topping, Piling, FRP Caps, letting 3/26/25 - ***status:** Bids received and rejected.*
18. **SR105(Hecksher Dr) over Browns Ck** (448825-1) GoMap*:* xCR-Piles, FIB36, Deck, B/GFRP Caps, letting 10/25/26 - ***status:** 60% plans due 9/19/24.*
19. **St. Augustine A1A/Avenida Menendez Seawall replacement** (428271-2). $45M. (Videos: Constr.Sequence, 1/23/24 Public Meeting, 9/24/25 letting. ***Status:** Phase IV 04/30/2025 in review.*
20. **SR13/San Jose Blvd over New Rose Ck** (448853-1) GoMap*: xCR-Piles, Bents & FSB-15 candidate, letting 03/31/27 – **Status:** 60% Plans due 5/20/25.*
21. **US90 over Aucilla River Crutch Bents** (447346-1), **T2984.** Crutch Bents on 2,3, & 4) with 40~#11 GFRP rebar/cap CSI proposal *(MSTbar)* (~6000 LF), 02/28/24 letting, Bid Tabs – ***status**: Proposal under review.*

Supporting information for Case Studies – D3

(LEGEND: GREY = COMPLETE; BLACK = ONGOING; RED = CURRENT STATUS)

22. St Joe Bay Inlet *(435815-1), T3632, Fast-Facts bulkhead sheet piles – 10/30/19 letting Bid Tabs; Began 1/23/2020 – **status:** bulkhead cap installation complete.*
23. **Pensacola Beach Ped. Tunnels** (City), *3-sided culverts GFRP-RC (Alan Jayroe/Volkert) – **status:** Not currently funded, 100% Plans on shelf.*
24. ***CR30A/Western Lake** (443331-1) GoMap, xCR-FSBs & xCR-PC Piles & Bulkheads; GFRP-RC Caps, letting 8/30/23 – **status**: under construction.*
25. ***CR30B/Indian Lagoon** (441185-2) GoMap, Design now by County's consultant (Dewberry FPN 441185-1). xCR-FSBs & xCR-PC Piles; GFRP-RC Caps, letting 11/11/25 – **status**: 100% Plans Review 4/4/2024.*
26. ***CR 372/Surf Road over Otter Creek Rise** (442951-1 LAP), GoMap, xCR-FSBs & xCR-PC Piles & Bulkheads; GFRP-RC Caps, letting 10/29/25 – **status**: 100% Plans.*
27. **Victoria Ave over Tidal Branch (Port St Joe)** (441179-1), GoMap, GFRP Box Culvert to replace railroad flatcar bridge; letting 2/25/26 – ***status**: 100% Plans 12/30/2024.*
28. ***SR 30 (US 98) from S Franklin St to Carrabelle River Bridge** 445761-1: GFRP-Box Culvert, Letting 6/1/2025 – **status**: Final Plans 4/4/2025.*
29. ***CR2302/Bridge St over Fanning Bayou** (442917-1) GoMap, SDO/SMO recommended xCR-FSBs or CIP-Flat-Slab with xCR-PC Piles & Bulkheads; GFRP-RC Caps, letting 7/28/27 – **status**: 90% Plans 1/17/25.*
30. ***Rocky Comfort Creek** (454309-1) (PGA-M.Lauckner) Structural Pile Jackets with GFRP rebar, letting 8/14/25 – **status**: Production 4/11/25.*
31. ***SR 390 EB Bridge over Mill Bayou** (421225-2) (STV-B.Goble xCR-FIB36 & xCR-PC Piles & Bulkheads; GFRP-RC Caps, letting TBA – **status**: 60% Plans, BDR, BHR 4/14/25.*

Supporting information for Case Studies – D4

(LEGEND: GREY = COMPLETE; BLACK = ONGOING; RED = CURRENT STATUS)

32. **NE 23rd Ave/Ibis Waterway** (434359-1) T4500 (LAP), Fast-Facts: GFRP-RC Flat-Slab *(Bayard) – 02/27/19 letting (Bid Tabs) – Began 11/04/19 – **status**: Construction completed 4/26/21. NDT vibration monitoring testing completed by UM/FIU on 5/1/21.*
33. **US 1/Jupiter Federal Observation Platform** (428400-2) **T4564** – *06/9/21 letting, Bid Tabs, HSSS/CFRP-PC(?) FSB's LF, xCR-18" Piles, (H&H/Nolan),* https://www.fdot.gov/projects/jupiterus1bridge/construction-updates – ***status:** 81% construction.*
34. **SR-A1A North Causeway Bridge Observation Platform** (429936-2) **T4583**– *1/12/22 letting, Bid Tabs, HSSS/CFRP-PC FSB's(?)=1421'; CFRP-18" piles=1676'+1079' (@CDS); HSSS-24" piles=120'; CFRP-10"x30" Sheet Piles = 621', (H&H/Nolan), D4 Construction webpage – **status:** 48% construction.*
35. **SR-A1A over Sebastian Inlet** (445618-1) - Observation Walks as part of bridge replacement - Letting 10/29/25 – ***status:** Phase I Plans 9/05/23, Public Meeting 7/17/24, 60% Plans Review June-July.*
36. **SR 5/US 1 over Earman River** (442891-1) **T4714** – FSB's, Bent Caps & piling – *09/25/24 letting, BSN, BidTabs (pending) - **status:** Under construction*
37. **17th St/Indian River, East End-Vero** (446106-2) - Replace east end spans with xCR-Beams (1-span)+CFRP/GFRP-FSB's (7-spans), SSRC overlay,CS-Barrier, xCR-piling, (GFRP-Bent Caps w/ SS-couplers) – 3/3/23 letting - ***status:** Under construction.*
38. **I-95 NB Off-Ramp at Indiantown Rd** (439758-1) E4W59 – xCR-Piling 18"x18" (1277 LF) – 5/5/2023 letting- ***status:** Contract executed 6/23/23.*
39. **SE Martin County Line Bridge Replacement** *(DRMP)* maplink – FRP-PC/RC foundation and superstructure - ***status:** 60% Plans due March 2023.*
40. **SR-A1A over Big Mud Creek & Blind Creek** (449179-1) – xCR-FIB/FSB's, - Bents, Piles, and deck. 03/25/26 letting - ***status:** D4 in-house. BDR review due 9/3/2024.*
41. **NE 36th St/Sample Road over Cap Knight Bayou Waterway** (LAP-City Lighthouse Point) (453177-1) – $1M Congressional CPFR: Candidate xCR-FSB - ***status:** Consultants short listed in March 2024.*
42. **NE 31st Court over Heron WW** (LAP-City Lighthouse Point) (453176-1) – $1M Congressional CPFR: Candidate xCR-FSB - ***status:** Consultants short listed in March 2024.*
43. **Seawall & Pump Station Resiliency Project** (448576-1, 448577-1, 448574-1) – Letting 9/25/24 - ***status: TBA***

Supporting information for Case Studies – D5

(LEGEND: GREY = COMPLETE; BLACK = ONGOING; RED = CURRENT STATUS)

44. **A1A Seawall - Segment 3** (440557-7) T5641, Fast-Facts: Secant wall for revetment – *complete.* ***status:*** *Hurricanes Ian & Nicole exposed wall face approx. 10-feet height.*
45. **SR 520 over Indian River** (440969-1) E5Z68, Fast-Facts*:* Bulkhead Cap Replacement - *3/5/19 letting (*Bid Tabs*) – no issues with the GFRP in the bulkheads that made it back to the EOR (complete).*
46. **SR 404 /Indian & Banana Rivers** (439275-1) E5Z32, Bulkhead Rehab xCR-Sheet piles only – *2/26/18 letting (complete).*
47. **SR 528 /Indian & Banana Rivers** (441166-1) E5Z96, Bulkhead Rehab CR-Sheet piles only – *12/3/19 letting (*Bid Tabs*)*, complete 5/25/21.
48. **Barracuda Blvd New Smyrna** (437935-1) **T5743**, *Bent Caps, CFRP-18" Piles=1508'+224' (@CDS); 73~CFRP-12"x30" Sheet piles=2269', 8~corner piles,* BSN*,* Bid Tabs*, Letting 2/23/2022. 4 new sheet pile walls added ~$1.5M to address existing wall damage (Phase 2).* ***Status:*** *completed.*
49. **5th Street over Yacht Club Cut** (437936-1) (LAP-*DRMP)* Map – *24" Sq. xCR-Piles optional CFRP or HSSS.* ***Status:*** *completed.*
50. **A1A Seawall – Segment 3 & 4** (452443-1 & 452444-1) H5461, Fast-Facts: GFRP-RC Secant Pile wall for protection, Hurricanes Ian & Nicole permanent repairs. *Construction* Video *(5/31/24) -* ***Status:*** *Completed.*
51. **SR 404 over Indian & Banana Rivers (**445395-1) **E55A2**, CP Pile Jackets with GFRP bars, 5*/3/22 letting* BidTabs - ***Status:*** *Estimated completion 11-27-23. The contractor is proposing substitution of GFRP Bars for Steel bars in Pile Jackets.*
52. SR5/US1 NB Over Turnbull Creek (447117-1), *Bridge Replacement, xCR-Piles, Superstructure TBA, Letting 8/28/24,* BSN*.* ***Status:*** *Advertised for bid.*
53. **N. Banana Rv Dr. Merritt Island** (LAP-*Atkins)* Map – *18" Sq. xCR-Piles optional CFRP or HSSS, xCR-FSB's or GFRP-RC Flat-Slab & Soldier Pile Walls.* ***Status:*** *Preliminary Cost study.*
54. **US1 over Pellicer Ck** (447118-1*); Potential xCR bridge in splash zone; letting 3/25/2026.* ***Status:*** *60% Plans due 8/3/23.*
55. **SR44 Sth Cswy- over Indian Rv** (450561-1) *Bulkhead Rehab (*Map*), GFRP rebar in cap and 62' xCR Sheet Piles, Letting 5/7/2024, BSN.* ***Status:*** *Advertised.*

Supporting information for Case Studies – D6

(LEGEND: GREY = COMPLETE; BLACK = ONGOING; RED = CURRENT STATUS)

56. **Bakers Haulover Cut** (433378-1), Fast-Facts*:* bulkhead – *completed.*
57. **Cow Key** (441740-1), E6L95, Fast-Facts*:* 6 spans (3 per bridge) replacement *(Luis Vargas/BPA) – 10/31/19 letting (*BidTabs*) – **status:** complete (Nov 2020).*
58. **SR-112/I-195 Westshore waterway** (441967-1) E6M50, Fast-Facts - bridge rehab: piles, bent cap & bulkhead cap repairs – *11/19/2020 letting* BSN - ***status**: complete 8/30/22.*
59. **SRA1A/Indian Creek Drive Drainage Mitigation** (439228-2) **AS343**-City of Miami Beach. GFRP-RC Pump Station Pile Cap and Bulkhead Caps. ***status**: No updates*.
60. **US1 over Channel 5** (436523-1) **E6K61** - Precast/PT Pier rehab, Letting 8/27/2020. BSN. ***status**: Under construction, FRP-RC repair proposed (Revision 3).*
61. **Long Key Bridge Replacement** (448206-1) – XCR substructure considerations, letting 2035. ***Status:** PD&E underway -* Public Kickoff Meeting *2/16/2023,* Alternatives Meeting *9/12/2023 .*
62. **Seven Mile Bridge Replacement** (448207-1) - XCR substructure considerations, letting 03/11/2040 – ***Status:** PD&E. Public Kickoff Meeting 5/16/2024, 30% Plans 5/6/2026.*
63. **117th St/Vaca Channel #2** (448208-1) LAP – XCR substructure consideration. Design with grant to City of Marathon, letting Nov. 2024. ***Status**: 100% Plans due 5/24/24.*
64. **FKOHT over Bow Channel Old Bridge Rehab. for SUNTRAIL** (440909-2 & 3) – Grant to FDEP $0.6M design, $10M construction in 2027/28. ***Status**: Kickoff meeting 12/6/2024.*
65. **Snake Creek Bridge** PD&E Study (442670-2) New high-level bridge to replace Bascule. XCR foundations will be required. ***Status:** PD&E Kickoff 2/3/2026. Construction 2035.*
66. **SR 907/Alton Rd** (430444-2) Raising Road and adding pump stations. $60M with $18M PROTECT Grant. Structures should be GFRP-RC due to saltwater. Production 9/26/2026 – ***Status**: 90% Plans 7/28/2024.*
67. **Atlantic Isle Lagoon Historic Bridge Replacement** (430029-2), LAP – xCR end bents & arched FSB's, upper drilled shaft connection? $2M, Letting 12/22/2027 – ***Status:** 60% Plans 6/4/2025.*

Supporting information for Case Studies – D7

(LEGEND: GREY = COMPLETE; BLACK = ONGOING; RED = CURRENT STATUS)

67. **Halls River Replacement** (430021-1) T7386, Fast-Facts*:* Bulkhead cap *(D7-Nolan)* – ***status**: +5-year Durability FRP-RC Bulkhead Beam Extraction and Testing pending (UM) Winter 2024/25.*
68. **Bayway Structure E Seawalls** - (427143-2) **E7R20**, *(Hunter)*, Design-Build: GFRP-RC Cap and Deadman for anchored Steel Sheet pile wall. *drone footage* - – ***status**: Completed 1/30/2023.*
69. **4th St at Big Island Gap** – (430500-1) **E7O03**, *letting 7/21/21 (Siddiqui)* – Bent caps are GFRP (Piles are SS-PC), *Bid Tabs* – ***status:** Completed 11/21/2023.*
70. **40th Ave. NE/Placido Bayou**, City of St Pete (443600-1), ***Fast-Facts*** *(Siddiqui/Cardno) 9/15/20 letting*: full bridge – ***status:** Completed.*
71. **I-275 over Big Island Gap** - Bridge Substructures – xCR piling and caps; Bridge Superstructure 1 (LHS) – xCR beams and deck for SUP; Bridge Superstructure 2 (RHS) – Conventional materials; Bulkhead Extensions – Use xCR Sheetpiles and Caps. ***status:** construction completed.*

Supporting information for Case Studies – Local

(LEGEND: GREY = COMPLETE; BLACK = ONGOING; RED = CURRENT STATUS)

72. **City of Key West Bight Ferry Dock Extension** (412194-1 LAP Grant), Fast-Facts*:* CFRP-PC Piles *(Nolan) – completed.*
73. **I-dock** (University of Miami) - Fast-Facts*: GFRP-RC PBES (Nanni) – complete.*
74. **North Miami Beach reef** – SEAHIVE units with GFRP- ***status****: Placed in service Mar 2023.*
75. **Bimini Drive at Duck Key** – (Monroe County) letting 11/24/20 *(Nolan),* Fast-Facts, xCR-piles, GFRP-RC bulkhead cap – ***status:*** *construction completed.*
76. **Wahoo Bay** (Palm Beach County) – SEAHIVE units with GFRP- ***status:*** *placed some units March, but additional mudline preparation required for anchoring toe units for April. https://news.miami.edu/stories/2023/08/a-way-to-protect-coastlines-and-restore-marine-ecosystems.html*
77. **Okaloosa Coastal Artificial Reef** – ***status:*** 25 ~ 3DCP SEAHIVE clusters deployed *at 9 locations in Gulf of Mexico on 2/26/2024 (*Video*),* FWC Artificial Reef Program *fish survey monitoring (pending).*
78. **Village of North Bay**, (Miami) GFRP-RC Caps & Seacrete™; 100 ft length of bulkhead cap raising – ***status:*** *SEAHIVE placement in permitting.*