



2013

# ***OUTSTANDING BRIDGES OF FLORIDA\****

*This photograph collection was compiled by Steven Plotkin, P.E.*



***Record Holders***

***Unique Examples***

***Superior Aesthetics***

\* All bridges in this collection are on the State Highway System or on public roads

## **Record Holders**

- ***Longest Total Length:*** *Seven Mile Bridge, Florida Keys*
- ***Second Longest Total Length:*** *Sunshine Skyway Bridge, Lower Tampa Bay*
- ***Third Longest Total Length:*** *Bryant Patton Bridge, Saint George Island*
- ***Most Single Bridge Lane Miles:*** *Sunshine Skyway Bridge, Lower Tampa Bay*
- ***Most Dual Bridge Lane Miles:*** *Henry H. Buckman Bridge, South Jacksonville*
- ***Longest Viaduct (Bridge over Land):*** *Lee Roy Selmon Crosstown Expressway, Tampa*
- ***Longest Span:*** *Napoleon Bonaparte Broward Bridge at Dames Point, North Jacksonville*
- ***Second Longest Span:*** *Sunshine Skyway Bridge, Lower Tampa Bay*
- ***Longest Girder/Beam Span:*** *St. Elmo W. Acosta Bridge, Jacksonville*
- ***Longest Cast-In-Place Concrete Segmental Box Girder Span:*** *St. Elmo W. Acosta Bridge, Jacksonville*
- ***Longest Precast Concrete Segmental Box Girder Span and Largest Precast Concrete Segment:*** *Hathaway Bridge, Panama City*
- ***Longest Concrete I Girder Span:*** *US-27 at the Caloosahatchee River, Moore Haven*
- ***Longest Steel Box Girder Span:*** *Regency Bypass Flyover on Arlington Expressway, Jacksonville*
- ***Longest Steel I Girder Span:*** *New River Bridge, Ft. Lauderdale*
- ***Longest Moveable Vertical Lift Span:*** *John T. Alsop, Jr. Bridge (Main Street), Jacksonville*
- ***Longest Movable Bascule Span:*** *2nd Avenue, Miami*



**SEVEN MILE BRIDGE (new bridge on left and original remaining bridge on right)**

***RECORD: Longest Total Bridge Length (6.79 miles)***

***LOCATION: US-1 from Knights Key to Little Duck Key, Florida Keys***



**SUNSHINE SKYWAY BRIDGE**

***RECORDS:*** *Second Longest Span (1,200 feet), Second Longest Total Bridge Length (4.14 miles), Most Single Bridge Lane Miles (20.7 miles)*

***LOCATION:*** *I-275 over Lower Tampa Bay from St. Petersburg to Terra Ceia*

***SUPERIOR AESTHETICS:*** *Pier footings are not in view; oval columns, box girders, and a single plane of stay cables*



**BRYANT PATTON BRIDGE AT SAINT GEORGE ISLAND**

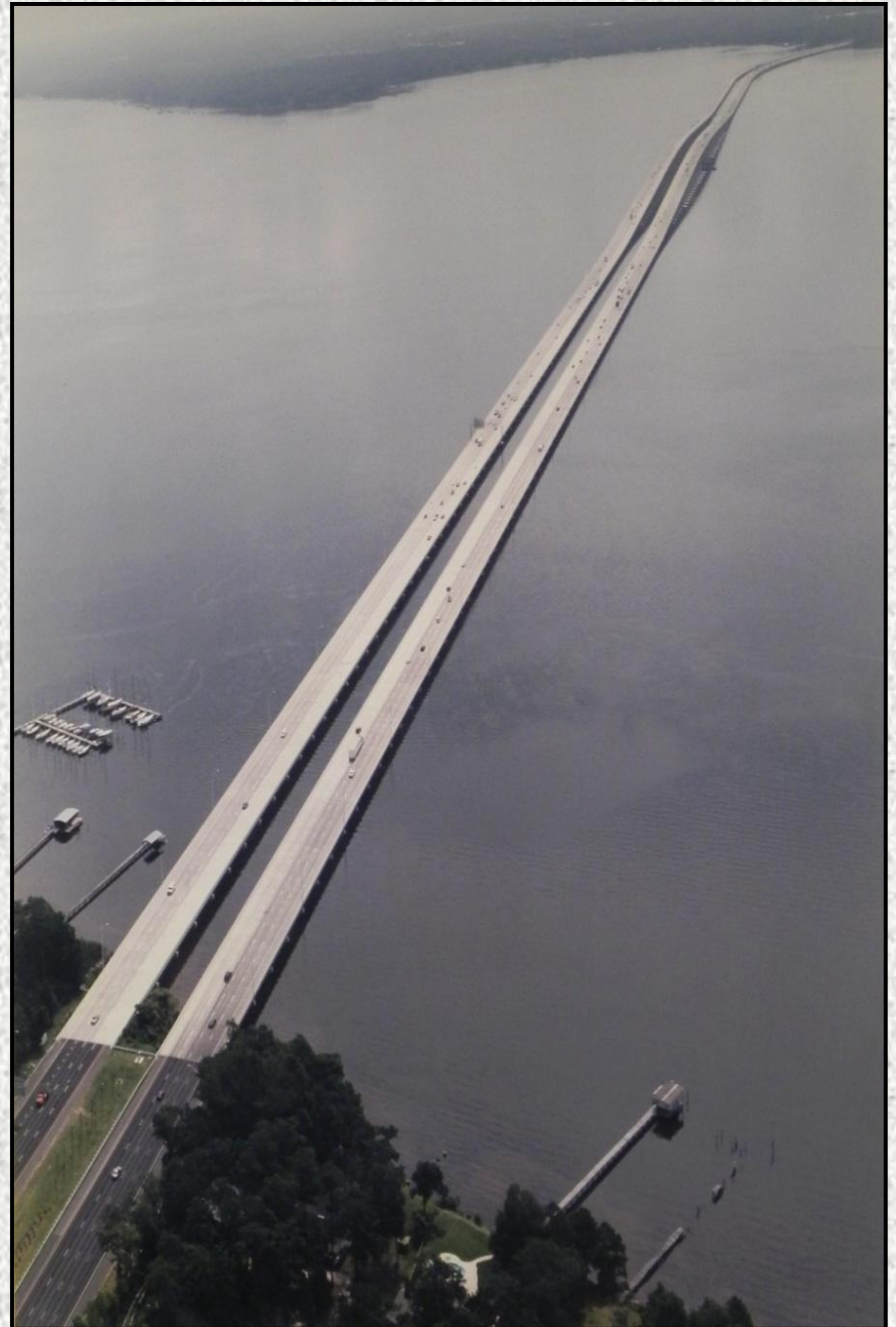
***RECORD:*** Third Longest Total Bridge Length (4.08 miles)

***LOCATION:*** State Road 300 over Apalachicola Bay from East Point to Saint George Island

**HENRY H. BUCKMAN BRIDGE**

***RECORD: Most Dual Bridge Lane Miles (24.8 miles)***

***LOCATION: I-295 over the Saint Johns River, South Jacksonville***





**LEE ROY SELMON CROSSTOWN EXPRESSWAY**

***RECORD: Longest Viaduct (Bridge over Land) (1.86 miles)***

***LOCATION: Tampa***



**NAPOLEON BONAPARTE BROWARD BRIDGE AT DAMES POINT**

***RECORD: Longest Span (1,300 feet)***

***LOCATION: I-295 East over the Saint Johns River, North Jacksonville***





**ST. ELMO W. ACOSTA BRIDGE**

***RECORDS:*** Longest Girder Span (630 feet), Longest Concrete Girder Span, Longest and Deepest (38') Concrete Box Girder Span

***LOCATION:*** SR-13 over the Saint Johns River, Downtown Jacksonville



**HATHAWAY BRIDGE**

***RECORDS:*** Longest Precast Concrete Segmental Box Girder Span (330 feet) and Largest Monolithic Precast Concrete Box Segment

***LOCATION:*** US-98 over Saint Andrews Bay, Panama City



**MOORE HAVEN BRIDGE**

***RECORD:*** Longest Prestressed Concrete I Girder Span (320 feet)

***LOCATION:*** US-27 over the Caloosahatchee River, Moore Haven



**REGENCY BYPASS FLYOVER**

***RECORD: Longest Steel Box Girder Span (372 feet)***

***LOCATION: Arlington Expressway (SR-115), Jacksonville***

**NEW RIVER BRIDGE**

***RECORD:*** Longest Steel I Girder Span (300 feet)

***LOCATION:*** I-95 over New River, Ft. Lauderdale





**JOHN T. ALSOP, JR. BRIDGE (MAIN STREET)**

***RECORD:*** Longest Movable Vertical Lift Span (365 feet)

***LOCATION:*** Main Street (US-90) over the Saint Johns River, Downtown Jacksonville



**2nd AVENUE BRIDGE**

***RECORD:*** Longest Movable Bascule Bridge Span (310 feet - Trunnion to Trunnion)

***LOCATION:*** S.W. 2nd Avenue over the Miami River, Miami

## *Unique Examples*

*(These are the only major bridges of their type on the State Highway System)*

- *Cantilever Through Truss: John E. Mathews Bridge, Jacksonville*
- *Movable Bascule Span with Carina Piers: E. Clay Shaw Bridge (17th St. Causeway), Ft. Lauderdale*
- *Suspended Deck Through Truss: Isaiah D. Hart Bridge, Jacksonville*
- *Suspension: Hal Adams Bridge, Lafayette/Suwannee County Line*
- *Movable Swing Span: US-17 over the Saint Mary's River, Florida/Georgia State Line*
- *Tied Arch: Myrtle Avenue Overpass, Jacksonville*
- *Through and Deck Truss: Apalachicola River Bridge at Blountstown, Calhoun/Liberty County Line*





**JOHN E. MATHEWS BRIDGE**

***UNIQUE EXAMPLE:*** *Cantilever Truss and Fourth Longest Span (810 feet)*

***LOCATION:*** *SR-115 over the Saint Johns River, Jacksonville*



**E. CLAY SHAW BRIDGE**

***UNIQUE EXAMPLE:*** Movable Bascule Span Supported by One-of-a-Kind Carina Piers (V Shape)

***LOCATION:*** 17th Street Causeway, (SR-1A) over the Intracoastal Waterway, Ft. Lauderdale

***SUPERIOR AESTHETICS:*** Architectural features and shapes of bascule piers; custom paint colors; and custom railings and roadway lights



**ISAIAH D. HART BRIDGE**

***UNIQUE EXAMPLE:*** *Though Truss with Suspended Deck, Third Longest Span (1,088 feet)*

***LOCATION:*** *Alternate US-1 over the Saint Johns River, Jacksonville*



**HAL ADAMS BRIDGE**

***UNIQUE EXAMPLE:*** Suspension Bridge, Center Span Length 450 feet

***LOCATION:*** SR-51 over the Suwannee River, Lafayette/Suwannee County Line



***SAINT MARY'S RIVER BRIDGE***

***UNIQUE EXAMPLE: Movable Swing Span***

***LOCATION: SR-17 over the Saint Mary's River, Florida/Georgia State Line***



**MYRTLE AVENUE OVERPASS**

***UNIQUE EXAMPLE: Tied Arch***

***LOCATION: I-95 over Myrtle Avenue, Jacksonville***



**APALACHICOLA RIVER BRIDGE AT BLOUNTSTOWN**

***UNIQUE EXAMPLE:*** *Oldest Through and Deck Truss (In Service 1938) - Main Span 280 feet*

***LOCATION:*** *SR-20 over the Apalachicola River, Calhoun/Liberty County Line near Blountstown*

## *Superior Aesthetics*

*Boynton Beach Bascule Bridge: East Ocean Avenue (SR-804) over the Intracoastal Waterway, Boynton Beach*

*Bridge of Lions: State Road A1A over Matanzas River, Saint Augustine*

*Broadway Bridge: East International Speedway Blvd. (US-92) over Halifax River, Daytona Beach*

*Clearwater Memorial Causeway Bridge: State Road 60 over the Intracoastal Waterway, Clearwater*

*E. Clay Shaw Bridge (See photo under Unique Examples): 17th Street Causeway over the Intracoastal Waterway, Ft. Lauderdale*

*Hallandale Beach Bascule Bridge: East Hallandale Beach Blvd. (SR-858) over the Intracoastal Waterway, Hallandale Beach*

*John Ringling Causeway Bridge: John Ringling Causeway (SR-789) over the Intracoastal Waterway, Sarasota*

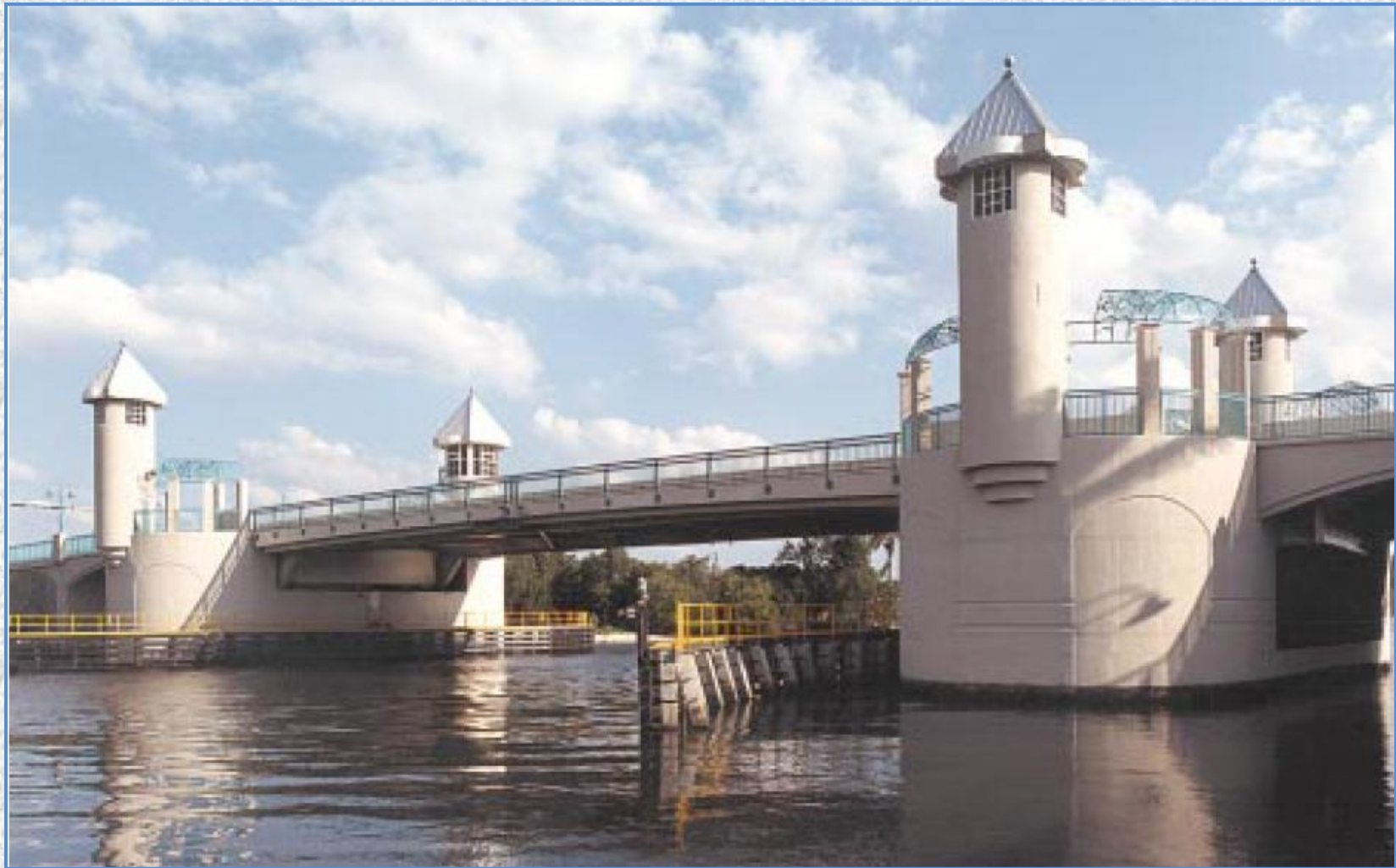
*John's Pass Bascule Bridge: Gulf Blvd. (SR-966) over John's Pass, Treasure Island*

*N.W. 5th Street Bascule Bridge: N. W. 5th Street over the Miami River, Miami*

*Royal Park Bascule Bridge: State Road 704 over the Intracoastal Waterway, West Palm Beach*

*Sunshine Skyway Bridge (See Photo under Record Holders): I-275 over Lower Tampa Bay from St. Petersburg to Terra Ceia*





**BOYNTON BEACH BASCULE BRIDGE**

***STRUCTURE TYPE & LOCATION:*** Movable Bascule Bridge, East Ocean Ave. (SR-804) over the Intracoastal Waterway, Boynton Beach

***SUPERIOR AESTHETICS:*** Architectural features on bascule piers, custom paint colors, custom pedestrian railings and roadway lighting



### **BRIDGE OF LIONS**

***STRUCTURE TYPE & LOCATION:*** Movable Bascule Bridge, State Road A1A over Matanzas River, Saint Augustine

***SUPERIOR AESTHETICS:*** Historical architectural features on bascule piers and roadway lighting, custom paint colors, special pedestrian railings and arched fascia beams - a pair of Medici lions made of marble are located at the bridge's West entrance



### **BROADWAY BRIDGE**

***STRUCTURE TYPE & LOCATION:*** Precast Concrete Segmental Box Girder, East International Speedway Blvd. (US-92) over the Halifax River, Daytona Beach

***SUPERIOR AESTHETICS:*** Beam spans lengthen as superstructure elevation increases and beam depth is variable; pier footings are not in view; oval columns with decorative tile bands; non-variable width of box girder bottom slab; aesthetic roadway lighting and pedestrian handrails; decorative tile panels on the pedestrian handrails at each pier location; and custom paint colors



**CLEARWATER MEMORIAL CAUSEWAY BRIDGE**

***STRUCTURE TYPE & LOCATION:*** Cast-in-Place Concrete Segmental Box Girder, State Road 60 over Intracoastal Waterway, Clearwater

***SUPERIOR AESTHETICS:*** Aesthetic column shapes and sizes; long beam spans with variable depth; and custom paint colors, pedestrian railings and highway lighting



**HALLANDALE BEACH BASCULE BRIDGE**

***STRUCTURE TYPE & LOCATION:*** Movable Bascule Span and Cast-in-Place Concrete Post-Tensioned Box Girder Approaches, East Hallandale Beach Blvd. (SR-858) over the Intracoastal Waterway, Hallandale Beach

***SUPERIOR AESTHETICS:*** Architectural features on bascule piers and custom paint colors



**JOHN RINGLING CAUSEWAY BRIDGE**

***STRUCTURE TYPE & LOCATION:*** *Precast Concrete Segmental Box Girder, John Ringling Causeway (SR-789) over the Intracoastal Waterway, Sarasota*

***SUPERIOR AESTHETICS:*** *Aesthetic pier shapes with hidden footings; long, slender variable depth beam spans; a single instead of a dual box girder cross section; and custom paint colors, highway lighting and pedestrian railings*



**JOHN'S PASS BASCULE BRIDGE**

***STRUCTURE TYPE & LOCATION:*** Movable Bascule Bridge, Gulf Blvd. (SR-966) over John's Pass, Treasure Island

***SUPERIOR AESTHETICS:*** Architectural features on bascule piers, custom paint colors, custom pedestrian railings and decorative roadway lighting



**N. W. 5TH STREET BRIDGE**

***STRUCTURE TYPE & LOCATION:*** Movable Bascule Bridge, N. W. 5th St. (US-441) over the Miami River, Miami

***SUPERIOR AESTHETICS:*** Architectural features on bascule piers, custom paint colors, custom pedestrian railings and decorative roadway lighting





**ROYAL PARK BASCULE BRIDGE**

***STRUCTURE TYPE & LOCATION:*** Movable Bascule Span and Cast-In-Place Concrete Segmental Box Girder Approach Spans, State Road 704 over the Intracoastal Waterway, West Palm Beach

***SUPERIOR AESTHETICS:*** Architectural features on bascule piers, fixed piers and girders; custom paint colors; custom pedestrian railings; decorative roadway lighting; and pedestrian observation platforms