U.S. Department of Homeland Security
United States Coast Guard

Commander
Seventh Coast Guard District

909 SE 1st Ave. Ste 432
Miami, FL 33131-3028
Staff Symbol: (dpb)
Phone: (305) 415-6747
Email: William.G.Tate@Uscg.Mil

16591/3916
June 16, 2014

PUBLIC NOTICE (06-14)

The Commander, Seventh Coast Guard District, has received an application from Metric Engineering, Inc. on behalf of the Florida Department of Transportation (FDOT) District 6, requesting approval of the location and plans for construction of a pedestrian bridge to be constructed parallel to the existing vehicular bridge spanning the Marvin D. Adams Waterway in Monroe County, Florida.

WATERWAY AND LOCATION: Marvin D. Adams Waterway, (previously known as Key Largo Waterway, local names include Marvin Adams Waterway and Adams Cut), US-1, mile 0.4, Key Largo, Monroe County, Florida.

CHARACTER OF WORK: The proposed project consists of construction of a pedestrian bridge across the Marvin D. Adams Waterway, west of and adjacent to the US-1 Bridge in Monroe County, Florida. The proposed pedestrian bridge will not be open to motorized vehicles, being utilized solely by pedestrians and recreational forms of transport such as bicycles and roller skaters. The proposed bridge will be 120 feet long and 11 feet, 7 inches wide, matching the same vertical and horizontal clearances as the adjacent vehicular bridge. Vehicular traffic will not be affected during construction.

MINIMUM NAVIGATIONAL CLEARANCES:

Existing: No existing structure.

Proposed: Horizontal: 80 feet from seawall to seawall.

Vertical: 14 feet above Mean High Water, 16.2 feet above Mean Low Water.

ENVIRONMENTAL CONSIDERATIONS: The Federal Highway Administration, the lead federal agency, determined that the project qualifies as a Categorical Exclusion. The proposed bridge is located within the floodplain. The 100-year flood elevation is 12.0 feet while the low member of the bridge is 15.8 feet. Elevations are based on Federal Emergency Management Agency's (FEMA's) Flood Insurance Rate Map dated February 18, 2005. No in-water work will occur within the waterway. Water quality certification for this project pursuant to Section 401, Public Law 92-500, 33 USC Section 1341, as amended was applied for on January 27, 2014 and has not yet been issued by the South Florida Water Management District (SFWMD). Construction is being permitted under Nationwide Permit 15 through the U.S. Army Corps of Engineers. No parklands, wildlife refuges, or historic properties will be adversely affected by the project.

SOLICITATION OF COMMENTS:

Mariners are requested to comment on the proposed clearances and other navigational safety issues including the extent of nighttime navigation past the bridge site.

Interested parties are requested to express their views, in writing, on the proposed bridge project including its possible impact on minority and/or low income population, if any, giving sufficient detail to establish a clear understanding of their reasons for support of or opposition to the proposed work. Written comments will be received for the record at the office of the Commander (dpb), Seventh Coast Guard District, 909 SE 1st Avenue, Suite 432, Miami, FL 33131-3028, for a 30-day period from the date of this public notice. Project manager for this application is Mr. Gwin Tate, who can be reached at (305) 415-6747, or by mail at the above address. Written comments received will be made part of the case record.

Map of location and plans attached.

//S//

W. GWIN TATE III
Bridge Management Specialist
By direction of the District Commander
Seventh Coast Guard District

This is a web-searchable copy and is not the official, signed version; however, other than the signature being omitted, it is a duplicate of the official version.

CONTRACT PLANS

U.S.-1 BAYSIDE SHARED USE PATH

PEDESTRIAN BRIDGE OVER MARVIN D. ADAMS WATERWAY
KEY LARGO, MONROE COUNTY, FLORIDA

STRUCTURAL PLANS

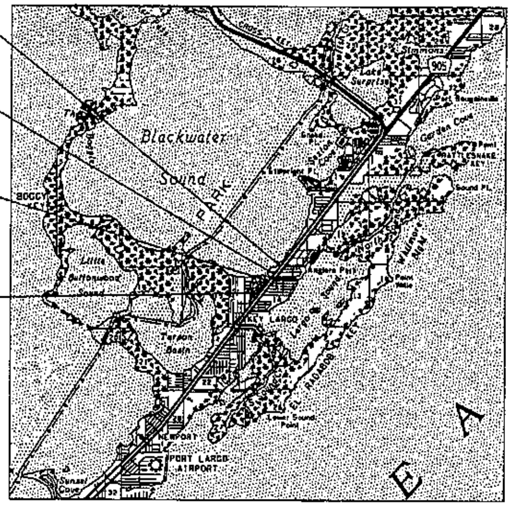
INDEX OF STRUCTURAL PLANS

END PROJECT
STA 1011+96.80
MM 103.475

END BRIDGE
STA 1007+56.13
MM 103.392

BEGIN BRIDGE
STA 1006+36.13
MM 103.370

BEGIN PROJECT
STA 1003+53.16
MM 103.317



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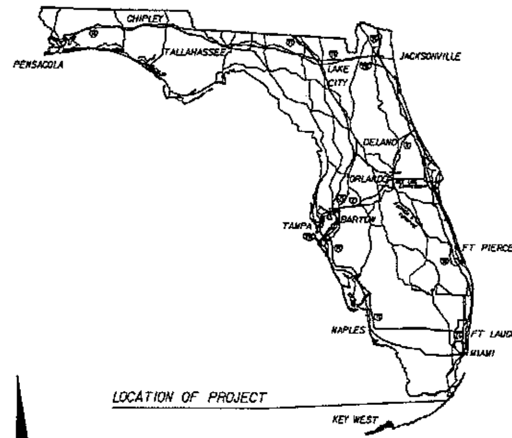


LOCATION OF PROJECT

STRUCTURE SHOP DRAWINGS
TO BE SUBMITTED TO:
OSCAR J. CRUZ, P.E.
METRIC ENGINEERING, INC.
13940 SW 136 STREET, SUITE 200
MIAMI, FLORIDA 33186
(305) 235-5098

PLANS PREPARED BY:

METRIC ENGINEERING

- ENGINEERS
- PLANNERS
- SURVEYORS

METRIC ENGINEERING, INC.
13940 S.W. 136th STREET, SUITE 200
MIAMI, FLORIDA 33186
TEL. (305) 235-5098
FAX. (305) 251-5894
VENDOR # F-59-1625550
CERTIFICATE OF AUTHORIZATION No. EB-0002294

PREPARED FOR:

MONROE COUNTY ENGINEERING DEPARTMENT

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	844	0.160
BRIDGES	120	0.023
NET LENGTH OF PROJECT	844	0.160
EXCEPTIONS		
GROSS LENGTH OF PROJECT	844	0.160

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

STRUCTURAL PLANS
ENGINEER OF RECORD: OSCAR J. CRUZ, PE

P.E. NO.: 63889

B-1

GENERAL NOTES

DESIGN SPECIFICATIONS:
American Association of State Highway and Transportation Officials
A. (AASHTO) LFRD Bridge Design Specifications, 2012 and approved interims.
B. LRFD Guide Specifications for the Design of Pedestrian Bridges, 2009.

FDOT Structures Manual (January 2014) and subsequent Structures Temporary Design Bulletins.

VERTICAL DATUM:
Vertical Datum used is NGVD 29.

CONSTRUCTION SPECIFICATIONS:
FDOT Standard Specifications for Road and Bridge Construction, 2014 Edition and Supplements thereto.

DESIGN LOADING:
H-5 Design Vehicle
Pedestrian Loading: 90 psf

SEISMIC LOADING:
Seismic provisions are in accordance with AASHTO Specifications and as modified by FDOT SDG Section 2.3.

WIND PRESSURES:
As per AASHTO LRFD, Section 3.8 and FDOT SDG Section 2.4.1 and 10.5

THERMAL LOADING:

	Concrete
Longitudinal Design:	
Normal Mean Temperature	70°F
Thermal Coefficient	0.000006/°F
Temperature Range for Design of Structure:	
Rise	35°F
Fall	35°F
Temperature Range for Sizing Bearing and Joints:	
Rise	35°F
Fall	35°F

VESSEL COLLISION LOADING:
Not applicable.

CONCRETE:
All concrete shall be in accordance with Section 346.

Concrete Class	Min. 28-day Compressive Strength (ksi)	Location of Concrete in Structure
II	f'c = 4,500 psi	C.I.P. Approach Slab
IV	f'c = 5,500 psi	C.I.P. Bridge Deck/End Bents
VI	f'c = 8,500 psi	Prestressed Beams

CONCRETE COVER:
C.I.P. superstructure = 2 in. (Typical except as noted)
C.I.P. substructure = 4½" in. for external surfaces cast against earth
= 4 in. for other external surfaces (Typical except as noted)

Concrete covers shown in the plans do not include placement and fabrication tolerances unless shown as "minimum cover". See FDOT Standard Specifications for allowable tolerances.

ENVIRONMENT:
Superstructure - Extremely Aggressive
Substructure - Extremely Aggressive

BRIDGE NAME:
Place the following Bridge name on the Traffic Railing in accordance with the Traffic Railing Design Standards:
Bridge No. Name:

REINFORCING STEEL:
All reinforcing steel shall be ASTM A615, Grade 60.

APPLIED FINISH COATING:
A Class 5 Finish Coating shall be applied to the portions of the structure shown on the "Surface Finish Detail".

SCREEDING DECK SLABS:
Screeding the riding surface of the Bridge Deck and Approach Slabs to achieve the Finish Grade elevations shown in the Plans. Account for theoretical deflections due to deck self weight, deck casting sequence, deck forming systems, construction loads, overlays and temporary shoring, etc. as required.

FINISHING DECK SLABS:
The deck slabs shall be grooved in accordance with Section 400-15.2.5 of the Structural Specifications.

STAY IN PLACE DECK FORMS:
Design includes allowance for 20 lb/sq.ft. over the projected plan area of the metal forms for the unit weight of metal forms and concrete required to fill the form flutes.

JOINTS IN CONCRETE:
Construction joints will be permitted only at locations indicated on the plans. Additional construction joints or alterations to those shown shall require approval of the Engineer.

MAINTENANCE OF TRAFFIC:
For temporary traffic control notes, see roadway plans if possible.

CONSTRUCTION OVER MARINE TRAFFIC:
The following construction activities shall not be allowed over marine traffic:

A. Girder placement.
B. Deck form placement.
C. Concrete deck placement.
D. Railing construction when Railing is located at the edge of Deck.

LOCAL NAVIGATION:
The waters within the project area are frequented by boat traffic. Sixty (60) days prior to mobilization, the Contractor shall notify the United States Coast Guard (USCG) Marine Safety Office and the USCG Sector Key West Office for navigation obstruction due to the construction activities.

ENVIRONMENTAL NOTES:

1. Seagrass beds and other benthic communities exist in the project area. The Contractor shall prevent contact with the seabed in these areas and any disturbance of bottom sediments (e.g. from moving or anchoring barges and other structures). The Contractor shall not shade any benthic community from direct sunlight for more than two weeks. Anchoring locations shall be approved by the Project Engineer (Monroe County).

2. The Contractor shall not impact wetlands adjacent to the project corridor. Two weeks prior to mobilization, the contractor shall meet with the Project Engineer (Monroe County) to field-verify the extent and boundary of wetland vegetation on site.

3. This project lies within the Florida Keys National Marine Sanctuary, which is designated as Outstanding Florida Waters. No degradation of water quality, increased turbidity of the water, and/or the discharge of any foreign material into the water shall be permitted. Contractor shall submit containment system shop drawings, signed and sealed by Florida Registered Professional Engineer to the EOR for approval.

4. The following precautions will be taken if an American Crocodile or American Alligator is encountered during construction: all the workers shall be notified; the alligator or crocodile shall be allowed to leave the site on its own and shall not be disturbed, herded, injured, or killed. The Contractor shall keep a daily log detailing all sightings, injuries, or killings. After project completion, reports summarizing these events shall be submitted to the Project Engineer (Monroe County). The Contractor shall comply with all Federal and State requirements regarding endangered or threatened species. Should these species be encountered, the contractor shall contact the Project Engineer (Monroe County) within 24 hours of each encounter.

5. The following Federal and State listed species is/are found within and/or immediately adjacent to the construction area: West Indian Manatee. The Contractor shall not impact natural vegetated areas outside of the footprint of the proposed construction.

EXISTING STRUCTURE:
Contractor shall monitor the existing bridge in accordance with section 455 of the FDOT Standard Specifications, 2014.

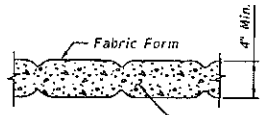
UTILITIES:
The utilities shown in the plans are at approximate locations. The contractor shall verify all the utility locations prior to starting any work.

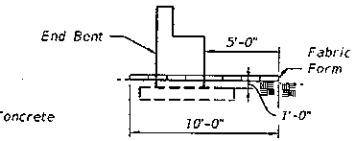
ABBREVIATIONS:

C.I.P.	=	Cast-in-Place	M.V.C	=	Minimum Vertical Clearance
N.F.	=	Near Face	PR.	=	Pair
E.F.	=	Each Face	U.O.N.	=	Unless Otherwise Noted
Eq. Sp.	=	Equally Spaced	P.E.J.M.	=	Premolded Expansion Joint Material
F.F.	=	Far Face	FFBW	=	Front Face of Backwall

Note: For additional standard abbreviations see FDOT Design Standards, January 2014.

PRESTRESSED STRANDS:
Strands shall meet all requirements of ASTM A416 for the grade of strands proposed. See Beam drawings for details. Prestressing strands for precast piles shall be in accordance with the applicable FDOT Standards Drawing Index.

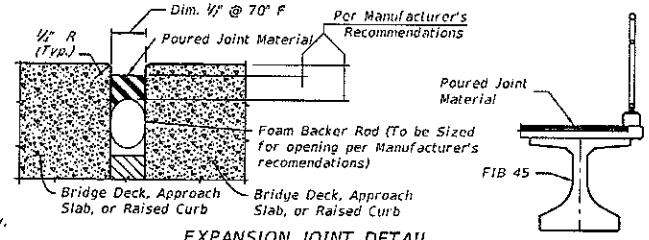




Erosion Protection Notes:

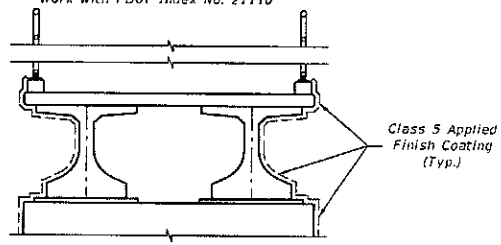
1. Erosion Protection mat shall be 4" Thick Fabric Form Mat or approved equal.
2. Contractor shall submit Fabric Form Revetment shop drawings for approval by the Engineer of Record.

EROSION PROTECTION DETAILS



EXPANSION JOINT DETAIL

Work with FDOT Index No. 21110



SURFACE FINISH DETAIL

PEDESTRIAN BRIDGE OVER MARVIN D. ADAMS WATERWAY

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

OSCAR J. CRUZ, P.E. # 63689
METRIC ENGINEERING, INC.
13940 S.W. 136 STREET
SUITE 200
MIAMI, FLORIDA 33186
TEL. (305) 235-5098
FAX. (305) 251-5894
• ENGINEERS • PLANNERS • SURVEYORS CERTIFICATE OF AUTHORIZATION 2294

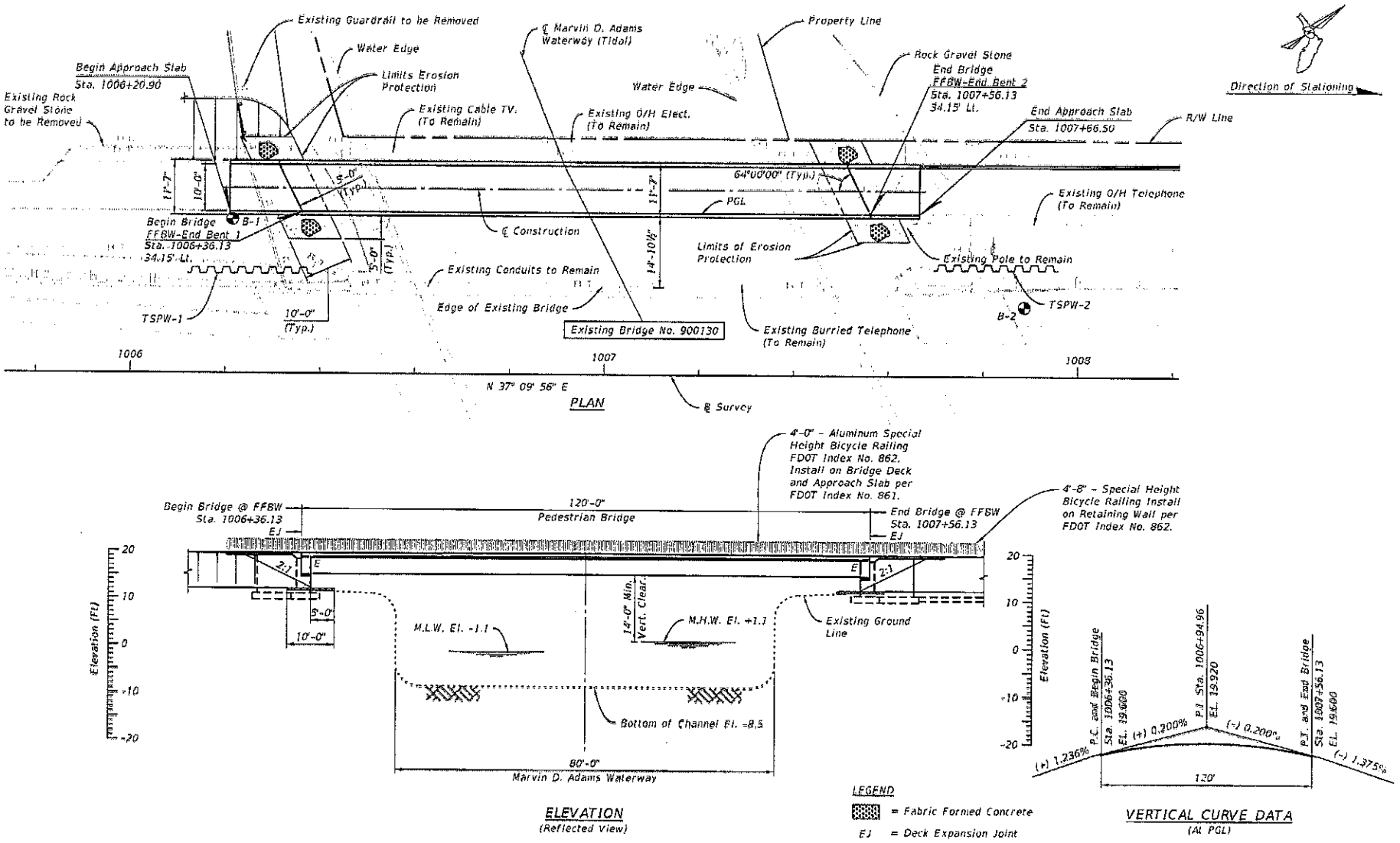
US 1 BAYSIDE SHARED USE PATH

MONROE COUNTY

GENERAL NOTES

SHEET NO. B-3

Designed By : OC 01-14
Checked By : O/R 01-14
Drawn By : JT 01-14
Checked By : OC 01-14



Designed By : OC 01-14
Checked By : DJR 01-14
Drawn By : JT 01-14
Checked By : OC 01-14

PEDESTRIAN BRIDGE OVER MARVIN D. ADAMS WATERWAY

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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SUITE 200
MIAMI, FLORIDA 33186
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US 1 BAYSIDE SHARED USE PATH

MONROE COUNTY

PLAN AND ELEVATION

SHEET NO. B-4