

U.S. Department of
Homeland Security

United States
Coast Guard



Commander
United States Coast Guard
Seventh District

909 SE 1st Avenue
Miami, Florida 33131
Staff Symbol: (dpb)
Phone: (305) 415-6736
Fax: (305) 415-6763
Email: randall.d.overton@uscg.mil

16591/3932
June 1, 2020

PUBLIC NOTICE (03-20)

All interested parties are notified that the Commander, Seventh Coast Guard District has received an application from Monroe County, Florida requesting approval of the location and plans for the construction of a bridge over a navigable waterway of the United States.

WATERWAY AND LOCATION: Sam's Canal, mile 0.0 at Duck Key, Monroe County, Naples, FL at Latitude 24°46'7.58"N, Longitude 80°55'10.05"W (24.768772, -80.919458). The bridge is known as Bimini Drive Bridge.

CHARACTER OF WORK: Monroe County proposes replacing the existing fixed-span Bimini Drive Bridge crossing Sam's Canal along the same alignment. The typical section of the replacement bridge includes two (2) 11-foot travel lanes, 2.5-foot wide shoulders, a 5-foot wide sidewalk on the north side of the bridge, and decorative railings. The sidewalk will be separated from the travel lanes by the shoulder. The overall length of the proposed bridge will be approximately 51.25 ft. and the out-to-out width will be approximately 34.67 ft.

MINIMUM NAVIGATIONAL CLEARANCES:

Existing

Horizontal:

32.0 ft. between face of piles

Proposed

Horizontal:

33.25 ft. between face of piles

Vertical:

13.5 ft. above Mean High Water

14.0 ft. above Mean Low Water

Vertical:

14.1 ft. above Mean High Water

14.5 ft. above Mean Low Water

ENVIRONMENTAL CONSIDERATIONS:

The United States Coast Guard (USCG), as the lead federal agency, has made a tentative determination that the proposed project is a categorical exclusion for the purposes of the National Environmental Policy Act (NEPA) because it satisfies criteria for such actions listed in the Coast Guard's NEPA Implementing Instructions. The documents are available for review at the above address, Monday through Friday, 8:00 a.m. to 4:00 p.m.

The bridge is located in the floodplain. The 100-year flood elevation is 5.5 ft. and the bridge low member elevation is approximately 13.5 ft.; elevations are referenced to NAVD 88 datum. The South Florida Water Management District (SFWMD) is the certifying agency, as defined in 40 CFR § 121.1(e), for issuance of Water Quality Certification (WQC) pursuant to Section 401, Public Law 92-500, 33 U.S.C. Section 1341. The SFWMD issued a general Environmental Resource Permit (ERP) # 44-103038-P, dated 15 April 2020, which constitutes WQC.

In coordination with the National Marine Fisheries Service and Florida Keys National Marine Sanctuary (FKNMS), the Coast Guard determined that impacts to threatened and endangered species, pursuant to the Endangered Species Act (ESA), and impacts to Essential Fish Habitat (EFH), pursuant to the Magnuson-Stevens Act, under the purview of NMFS, are de minimis. No further consultation with respect to ESA or EFH is required unless the scope of the project changes. The FKNMS reviewed the project and issued a letter of approval for the bridge replacement and associated work within the sanctuary.

The USCG, in consultation with the Florida State Historic Preservation Officer (SHPO) and Monroe County, has determined that the project requires removal of a National Register of Historic Places eligible historic bridge (Bimini Drive Bridge) which will have an adverse on the resource. Taking into account the effects of the undertaking on historic properties, the USCG, SHPO, and Monroe County have executed a Memorandum of Agreement (MOA), dated 16 Oct 2018, pursuant to Section 106 of the National Historic Preservation Act of 1966.

Removal of Existing Bridge

All parts of the existing to be replaced bridge, not utilized for the new bridge, shall be removed in their entirety.

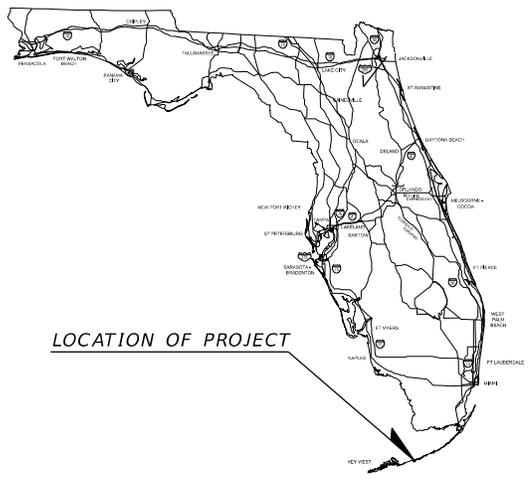
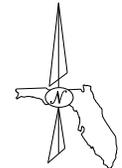
ANTICIPATED IMPACTS TO NAVIGATION DURING CONSTRUCTION:

Anticipated impacts to navigation during construction include use of construction barges within the waterway. Mariners will be notified of the details of in-water construction activities which may impact navigation at and around the bridge site. Details of any such impacts will be disseminated to mariners via the Coast Guard's Local Notice to Mariners (LNM). To subscribe to the Coast Guard LNM and other free Coast Guard navigation notification services, please visit <http://www.navcen.uscg.gov/> under "Subscribe / Report (free)" select the notifications you wish to receive; note this project is located in the Seventh Coast Guard District area.

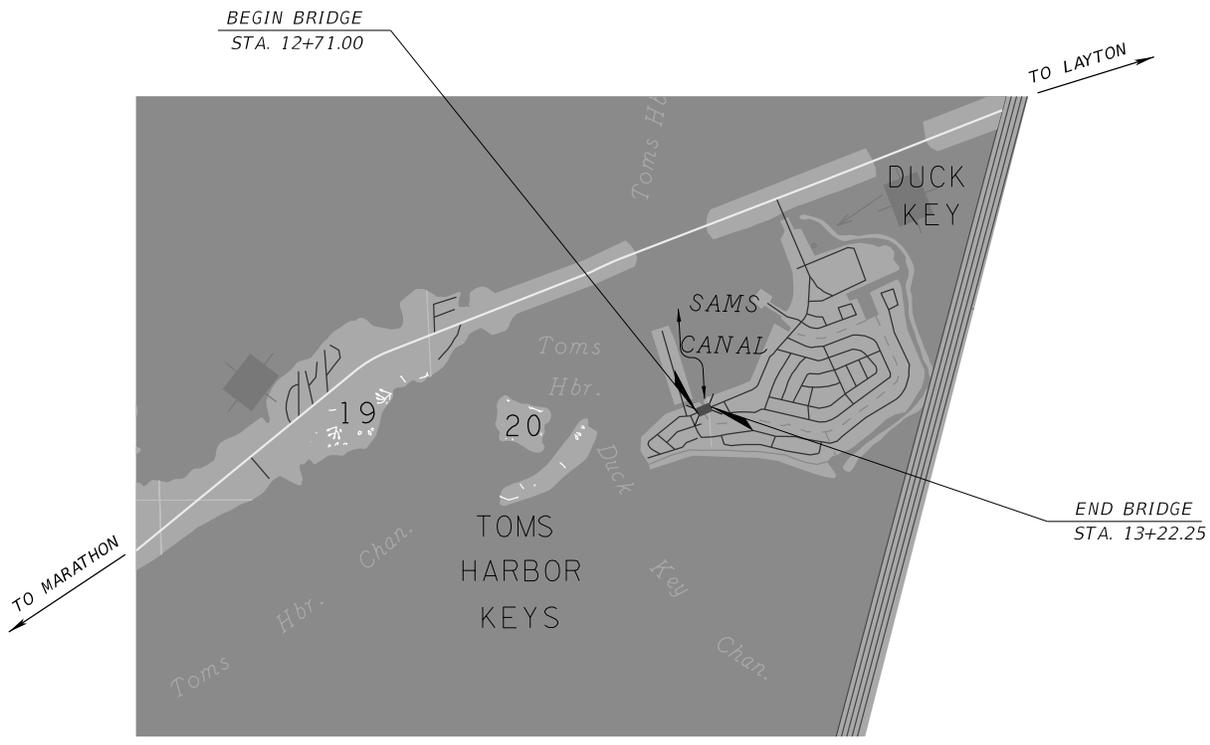
SOLICITATION OF COMMENTS:

Mariners are requested to comment on the proposed vertical and horizontal navigational clearances and other navigational safety issues including, but not limited to, the extent of nighttime navigation, need for bridge fendering, and impacts due to construction activities.

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. Comments will be received for the record at the office of: Commander (dpb), Seventh Coast Guard District, 909 SE 1st Ave., Ste 432, Miami, Florida 33131-3028, for a 30-day period from the date of this public notice. Our project manager for this application is Mr. Randall Overton. He can be contacted by telephone at (305) 415-6736, by mail at the above address, or e-mail at randall.d.overton@uscg.mil. Comments received will be made part of the case record. Map of location and plans attached.



LOCATION OF PROJECT



CONCEPTUAL PLANS UTILIZED TO OBTAIN COAST GUARD BRIDGE PERMIT

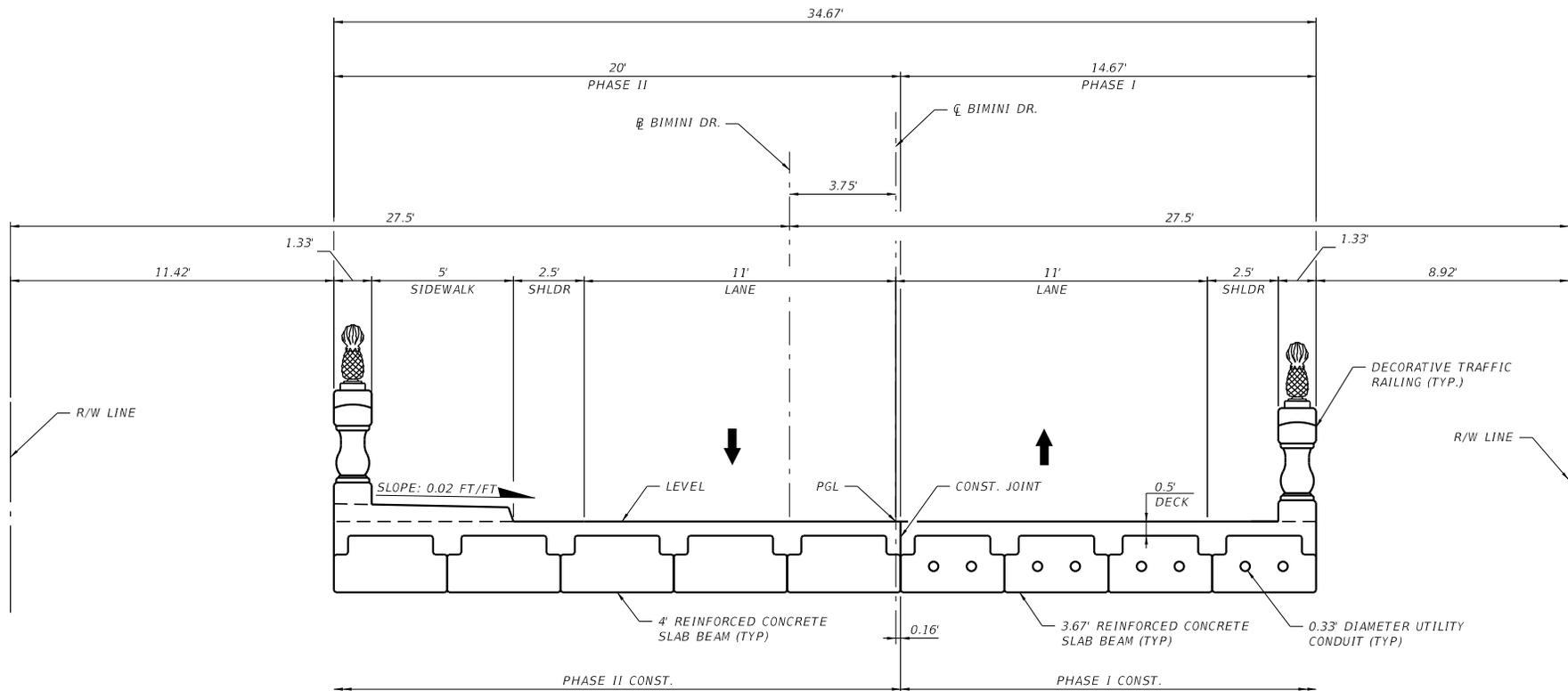
APPLICANT: Monroe County
 CONSULTANT: Kisinger Campo & Associates
 BRIDGE NAME: Bimini Drive
 WATERWAY NAME: Sams Canal
 WATERWAY MILE POINT: 0.00
 LOCATION: Duck Key, Monroe County, Florida
 PLANS DATE: December 6, 2019

AUSTIN BLACK, P.E.
 P.E. LICENSE NUMBER 83487
 KISINGER CAMPO AND ASSOCIATES
 201 N. FRANKLIN STREET SUITE 400
 TAMPA, FL 33602
 CERTIFICATE OF AUTHORIZATION: 02317



MONROE COUNTY ENGINEERING SERVICES DEPARTMENT
 1100 SIMONTON STREET
 KEY WEST, FLORIDA 33040

LOCATION MAP	
BIMINI BRIDGE REPLACEMENT	SHEET NO. 1 OF 4



BRIDGE TYPICAL SECTION

CONCEPTUAL PLANS UTILIZED TO OBTAIN
COAST GUARD BRIDGE PERMIT

APPLICANT: Monroe County
CONSULTANT: Kisinger Campo & Associates
BRIDGE NAME: Bimini Drive
WATERWAY NAME: Sams Canal
WATERWAY MILE POINT: 0.000
LOCATION: Duck Key, Monroe County, Florida
PLANS DATE: December 6, 2019



DATE	NAMES	DATES
10/19	ARF	
10/19	ATB	
10/19	ATB	
10/19	JLL	
	AUSTIN BLACK P.E.	

ENGINEER OF RECORD:
Kisinger Campo and Associates Corp.
201 W. Franklin Street
Suite 400
Tampa, FL 33606
FL Certificate of Authorization No. 02317
Austin T. Black, PE No. 83487

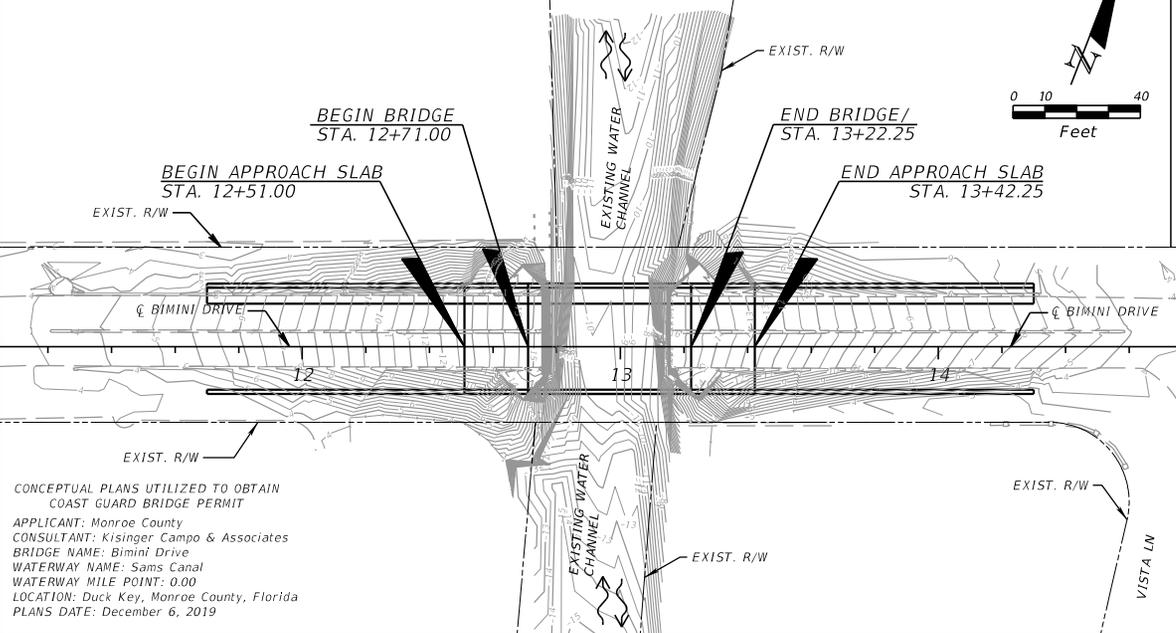


MONROE COUNTY
ENGINEERING SERVICES DEPARTMENT
1100 SIMONTON ST., ROOM 2-216
KEY WEST, FLORIDA 33040
(305) 292-4426

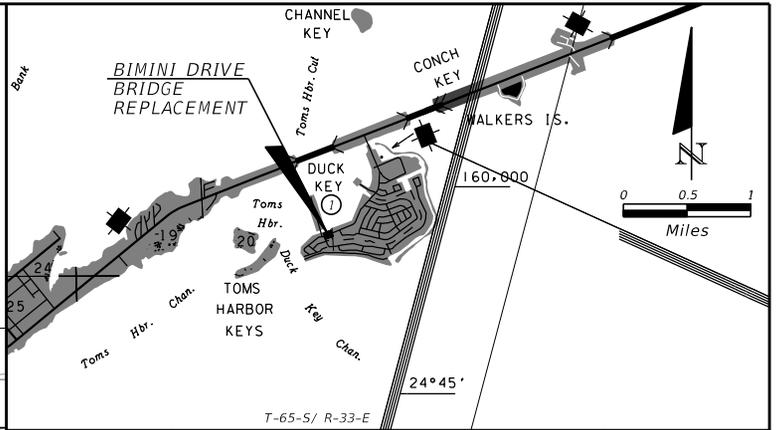
SHEET TITLE: BRIDGE TYPICAL SECTION	SHEET NO. 3 OF 4
PROJECT NAME: BIMINI DRIVE BRIDGE REPLACEMENT	

BRIDGE NO. 904613

THIS SHEET HAS BEEN INCLUDED IN THE PLANS FOR DOCUMENTATION. DO NOT USE FOR CONSTRUCTION PURPOSES.

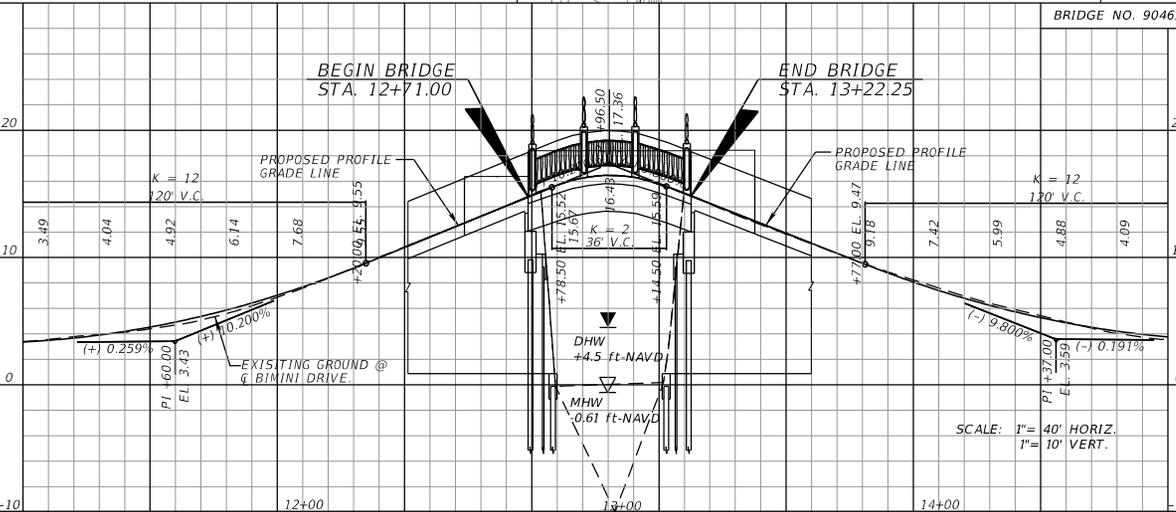


CONCEPTUAL PLANS UTILIZED TO OBTAIN COAST GUARD BRIDGE PERMIT
 APPLICANT: Monroe County
 CONSULTANT: Kisinger Campo & Associates
 BRIDGE NAME: Bimini Drive
 WATERWAY NAME: Sams Canal
 WATERWAY MILE POINT: 0.00
 LOCATION: Duck Key, Monroe County, Florida
 PLANS DATE: December 6, 2019



(REFERENCE)	EXISTING STRUCTURES				PROPOSED STRUCTURE
	(1)	(2)	(3)	(4)	
FOUNDATION	UNKNOWN				1.5' conc. piles
OVERALL LENGTH	42.5'				51.25'
SPAN LENGTH	42.5'				51.25'
TYPE CONSTRUCTION	pre-cast conc. arch				pre-cast conc. arch
AREA OF OPENING@D.F.	241 sf				250 sf
BRIDGE WIDTH	25'				34.67'
ELEV. LOW MEMBER	12.29' NAVD				13.51' NAVD

HYDRAULIC DESIGN DATA
 NOTE: The hydraulic data is shown for informational purposes only to indicate the flood discharges and water surface elevations which may be anticipated in any given year. This data was generated using highly variable factors determined by a study of the watershed. Many judgements and assumptions are required to establish these factors. The resultant hydraulic data is sensitive to changes, particularly antecedent conditions, urbanization, channelization and land use. Users of this data are cautioned against the assumption of precision which cannot be obtained.
 TERMS:
 Design Flood: Utilized to assure a desired level of hydraulic performance.
 Base Flood: Has a 1% chance of being exceeded in any given year (100 year frequency)
 Overtopping Flood: Causes flow over the highway, over a watershed divide, or thru emergency relief structures.
 Greatest Flood: The most severe that can be predicted where overtopping is not practicable.



BRIDGE NO. 904613

WATER SURFACE ELEVATIONS: N.H.W. (Non-Tidal) -0.84 ft NAVD M.H.W. (Tidal) -0.61 NAVD
 CONTROL (Non-Tidal) NA M.L.W. (Tidal) -1.09

FLOOD DATA:	MAX. EVENT OF RECORD	DESIGN FLOOD	BASE FLOOD	<input checked="" type="checkbox"/> OVERTOPPING or GREATEST FLOOD
STAGE ELEV. NAVD (ft)	NA	+4.5	+5.5	+7.4
DISCHARGE (cfs)	NA	2,340	3,756	4,684
AVERAGE VELOCITY (f/s)	NA	4.1	5.0	5.1
EXCEEDANCE PROB. (%)	NA	2	1	0.2
FREQUENCY (yr.)	NA	50	100	500

SCOUR PREDICTIONS FOR PROPOSED STRUCTURE DESCRIBED ABOVE:

NUMBERS	PIER INFORMATION	LONG TERM SCOUR ELEV.	TOTAL SCOUR ELEVATION	
			WORST CASE < 100 yr. FREQ. (yr.)	WORST CASE < 500 yr. FREQ. (yr.)
NA	NA	NA	NA	NA

HYDRAULIC RECOMMENDATIONS

- BEGIN BRIDGE STATION 12+71.00 END BRIDGE STATION 13+22.25 SKEW ANGLE 0
- CLEARANCE PROVIDED: NAV: HORIZ. 32' VERT. 14' ABOVE EL. -0.61 DRIFT: HORIZ. 41' VERT. 9' ABOVE EL. +4.5
- MINIMUM CLEARANCE: NAV: HORIZ. 10' VERT. 12' ABOVE EL. -0.61 DRIFT: HORIZ. 10' VERT. 2' ABOVE EL. +4.5
- ABUTMENTS:

	BEGIN BRIDGE	END BRIDGE
RUBBLE GRADE:	NA	NA
SLOPE:	STEEL SHEETPILE WALL	STEEL SHEETPILE WALL
BURIED OR NON-BURIED HORIZ. TOE:	NA	NA
TOE HORIZ. DISTANCE:	NA	NA
LIMIT OF PROTECTION:	NA	NA
- DECK DRAINAGE: NO SCUPPERS

REMARKS: Wave Crest Elevation = +6.9 ft-NAVD
 *Substrate is limestone and no intermediate bents
 All elevations are in feet and referenced to NAVD 88 and do not include sea level rise

REVISIONS	
DATE	DESCRIPTION

INTERA Incorporated
 2114 NW 40th Terrace, Suite A-1
 Gainesville, FL 32605
 Florida Certificate of Authorization No. 9062
 Engineer of Record: Philip E. Dompé
 P.E. No.: 54571



BIMINI DRIVE BRIDGE REPLACEMENT
BRIDGE #904613
 MONROE COUNTY
 ENGINEERING SERVICES DEPARTMENT

BRIDGE HYDRAULIC RECOMMENDATIONS SHEET

SHEET NO. 4 OF 4