

U.S. Department of  
Homeland Security

United States  
Coast Guard



Commander  
United States Coast Guard  
Seventh District

909 SE 1st Avenue  
Miami, FL 33131  
Staff Symbol: (dpb)  
Phone: (305) 415-6747  
Email: Omar.Beceiro@uscg.mil

16591/3384  
May 27, 2022

## PUBLIC NOTICE 07-22

All interested parties are herein notified that the Commander, Seventh Coast Guard District has received an application dated March 25, 2022 from Scalar Consulting Group, Inc. on behalf of Palm Beach County, Florida. The applicant is requesting approval of location and plans for a bridge replacement across a navigable waterway of the United States.

**WATERWAY AND LOCATION:** Earman (C-17 Canal) River, Mile 1.4, at Prosperity Farms Road, Village of North Palm Beach, Palm Beach County, Florida. Latitude 26.814377/Longitude -80.073558

**CHARACTER OF WORK:** Palm Beach County intends to replace the existing, fixed Prosperity Farms Road Bridge with a new two-lane, fixed bridge within the footprint of the existing bridge. Improvements include new curb/gutter, sidewalks on both sides, bike lanes, and drainage infrastructure modifications. Counter scour measures (rip-rap) will also be installed. The overall length of the proposed bridge will be approximately 189 feet and the width 80 feet. The new bridge will address public safety, since the existing bridge is nearing the end of its service life and will provide greater navigational clearances. The existing bridge will be removed in its entirety.

### MINIMUM NAVIGATIONAL CLEARANCES:

The proposed new bridge will have clearances as described in the table below relative to Mean High Water (MHW). These clearances are an increase from current clearances over this section of the Earman River.

	Existing (Feet)	Proposed (Feet)
Vertical	8.6	10.1
Horizontal	17.8	35.9

Datum: NAVD88

### ENVIRONMENTAL CONSIDERATIONS:

The Coast Guard, as the lead Federal agency, has made a tentative determination that the bridge replacement warrants 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 project area does not include properties listed in or eligible for inclusion in the National Register of Historic Places. Consultation with the State Historic Preservation Officer will be conducted in accordance with Section 106 of the National Historic Preservation Act of 1966.

A water quality certification in accordance with Section 401 of the Clean Water Act, as amended, for this project is covered under the South Florida Water Management District, Environmental Resource Permit issued on April 25, 2022 (Permit No. 50-106847-P). No wetland will be taken or affected by this project.

The bridge is not located in the floodplain. The 100-year flood elevation is 6.60 feet, while elevation of the low member of the navigation span is 10.55 feet; elevations are referenced to NAVD88 datum.

The Earman River at the project site is considered estuarine deepwater habitat. Approximately 1,292 cubic yards of fill material will be placed below MHW level for the construction of the bridge and approaches. The project will have no effect on wetlands.

No seagrass or coral were found within the project area. Mangroves found along the banks of the canal will not be affected by the project.

The project area is considered Essential Fish Habitat (EFH) for Spiny lobster, snapper/grouper, and penaeid shrimp. Consultation with National Marine Fisheries Service will be conducted in accordance with the Magnuson-Stevens Fishery Conservation and Management Act. The project is not likely to adversely affect EFH.

The project area is designated West Indian manatee Critical Habitat. The permittee will follow Florida Fish and Wildlife Conservation Commission Standard Manatee Conditions for In-Water Work. Consultation with U.S. Fish and Wildlife Service will be conducted in accordance with Section 7 of the Endangered Species Act. The project is not likely to adversely affect West Indian manatee.

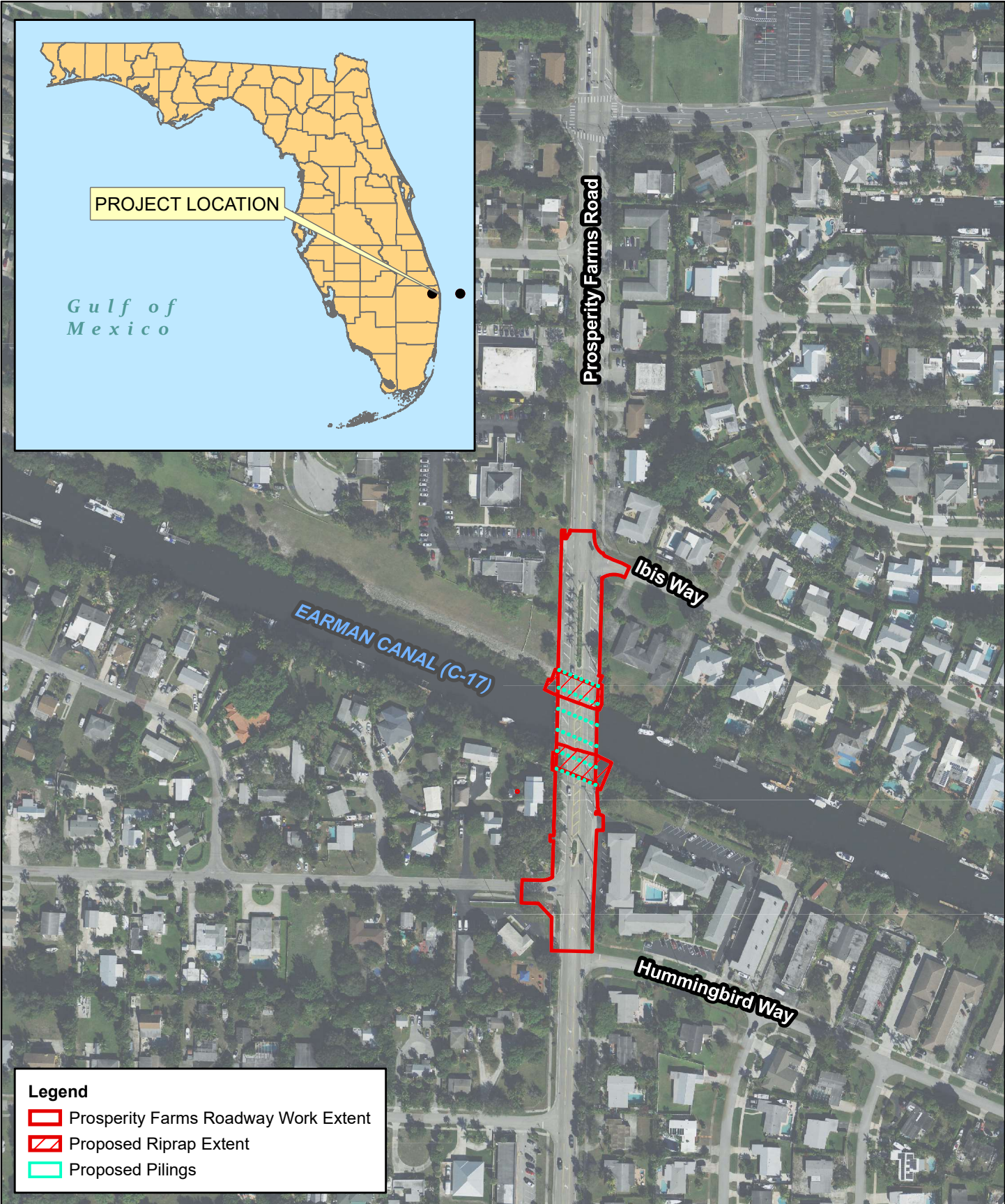
#### **SOLICITATION OF COMMENTS:**

Mariners are requested to comment on the proposed navigation clearances, placement of a bridge protective system and other navigational safety issues, including need for clearance gauges and extent of nighttime navigation to determine the need for bridge lighting.

Interested parties are requested to express their views, in writing, on the proposed bridge project including its possible environmental impacts to include those impacts on minority and/or low income populations, if any, giving sufficient detail to establish a clear understanding of the 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 or via email at: [Omar.Beceiro@uscg.mil](mailto:Omar.Beceiro@uscg.mil), for a 30-day period from the date of this public notice. The Coast Guard project manager for this application is Mr. Omar Beceiro, who can be contacted by mail at the above address or e-mail. Comments received will be made part of the project administrative record.

Map of location and plans attached.



PROJECT LOCATION

Gulf of Mexico

EARMAN CANAL (C-17)

Prosperity Farms Road

Ibis Way

Hummingbird Way

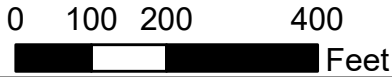
**Legend**

- Prosperity Farms Roadway Work Extent
- Proposed Riprap Extent
- Proposed Pilings



**Figure 1. Project Location Map**  
 Prosperity Farms Rd Bridge Replacement over C-17 (Earman) Canal  
 From Hummingbird Way to Ibis Way  
 Project #2018800  
 Palm Beach County

Image Source: FDOT APLUS  
 Image Date: 2019

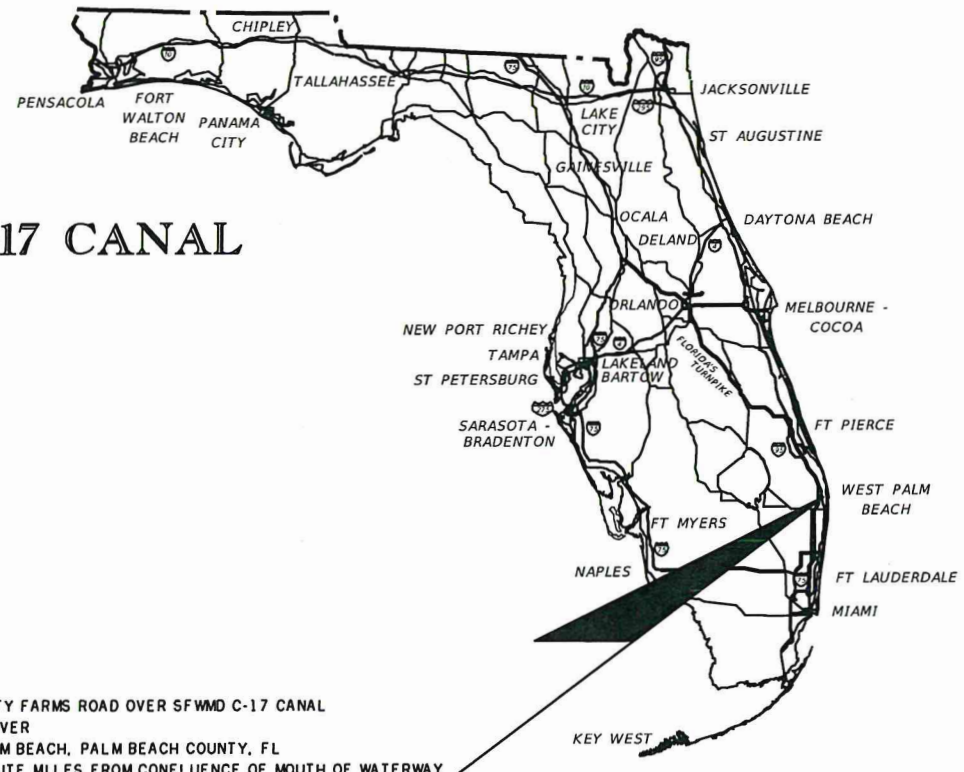


PERMIT SUBMITTAL  
5/25/2022

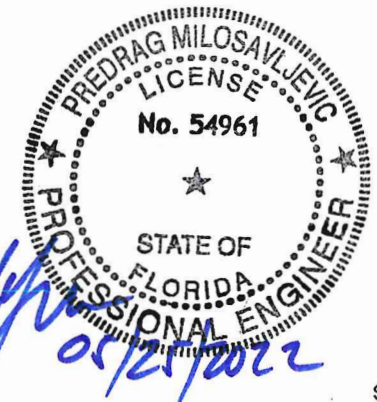
# COUNTY OF PALM BEACH STATE OF FLORIDA

BOARD OF COUNTY COMMISSIONERS  
PROJECT NO. 2018800

## PROSPERITY FARMS ROAD OVER SFWMD C-17 CANAL BRIDGE REPLACEMENT BRIDGE NO. 934116



PROSPERITY FARMS ROAD OVER SFWMD C-17 CANAL  
EARMAN RIVER  
NORTH PALM BEACH, PALM BEACH COUNTY, FL  
1.45 STATUTE MILES FROM CONFLUENCE OF MOUTH OF WATERWAY



THIS PROJECT IS DESIGNED TO  
NAVD, 1988 DATUM  
NORTH AMERICAN VERTICAL DATUM (NAVD)

PLANS PREPARED BY:

SCALAR CONSULTING GROUP INC.  
5713 CORPORATE WAY, SUITE 200  
WEST PALM BEACH, FL 33407  
TEL. 561-429-5065  
PREDRAG MILOSAVLJEVIC, P.E.  
P.E. NO.: 54961  
VENDOR NO. 451909667

ATTENTION IS DIRECTED TO THE FACT THAT  
THESE PLANS MAY HAVE BEEN CHANGED IN  
SIZE BY REPRODUCTION, THIS MUST BE  
CONSIDERED WHEN OBTAINING SCALED DATA.

I HEREBY CERTIFY THAT THE ATTACHED PLANS AND DESIGNS ARE IN  
SUBSTANTIAL COMPLIANCE WITH THE DESIGN STANDARDS AND  
CRITERIA IN EFFECT ON THIS DATE FOR PALM BEACH COUNTY AND  
THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION.

DATE \_\_\_\_\_ PROFESSIONAL ENGINEER  
PREDRAG MILOSAVLJEVIC, P.E. NO. 54961

LOCATION MAP  
N.T.S.

LENGTH OF PROJECT		
	LIN. FT.	MILES
ROADWAY	682	0.129
BRIDGES	190	0.036
NET LENGTH OF PROJ.	872	0.165
EXCEPTIONS	0	0
GROSS LENGTH OF PROJ.	872	0.165

GOVERNING STANDARDS AND SPECIFICATIONS:

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH AND GOVERNED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD & BRIDGE CONSTRUCTION (CURRENT EDITION), AND SUPPLEMENTS THERETO, FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION), SUPPLEMENTS THERETO, AND SPECIAL PROVISIONS AS NOTED IN THE CONTRACT SPECIFICATIONS FOR THIS PROJECT.

GOVERNING SPECIFICATIONS ARE CONTAINED IN THE CONTRACT DOCUMENTS OF THIS PROJECT.

PALM BEACH COUNTY  
ENGINEERING AND PUBLIC WORKS  
ROADWAY PRODUCTION  
P.O. BOX 21229, WEST PALM BEACH, FLORIDA  
(561) 684-1150

NO.	REVISION	BY	DATE

SCALE: NTS  
APPROVED: PZM  
DRAWN: HS  
CHECKED: HWS  
DATE: 5/25/2022

FIELD BOOK NO. \_\_\_\_\_

PROJECT: PROSPERITY FARMS ROAD OVER SFWMD C-17 CANAL  
DRAWING NO. \_\_\_\_\_  
DESIGN FILE NAME: 2018800.DWG

SHEET: 1  
OF: 4  
PROJECT NO. 2018800

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LAYCOCK  
RONALD J TRUST

BEGIN UTILITY BRIDGE  
STA. 34+40.50  
OFFSET 45.5' LT.

BEGIN APPROACH SLAB  
STA. 33+90.65

APPROACH  
SLAB 1

TOE OF  
SLOPE  
TOP OF  
BANK

EDGE OF  
WATER

EBB  
FLOW  
EARMAN RIVER  
(C-17)

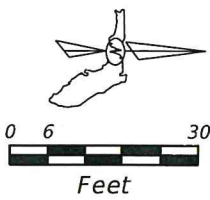
UTILITY BRIDGE  
EXISTING BENT  
(TYP.)  
C-17 CANAL  
STA. 34+85.50

TOE OF  
SLOPE  
EDGE OF  
WATER

TOP OF  
BANK

SFWMD

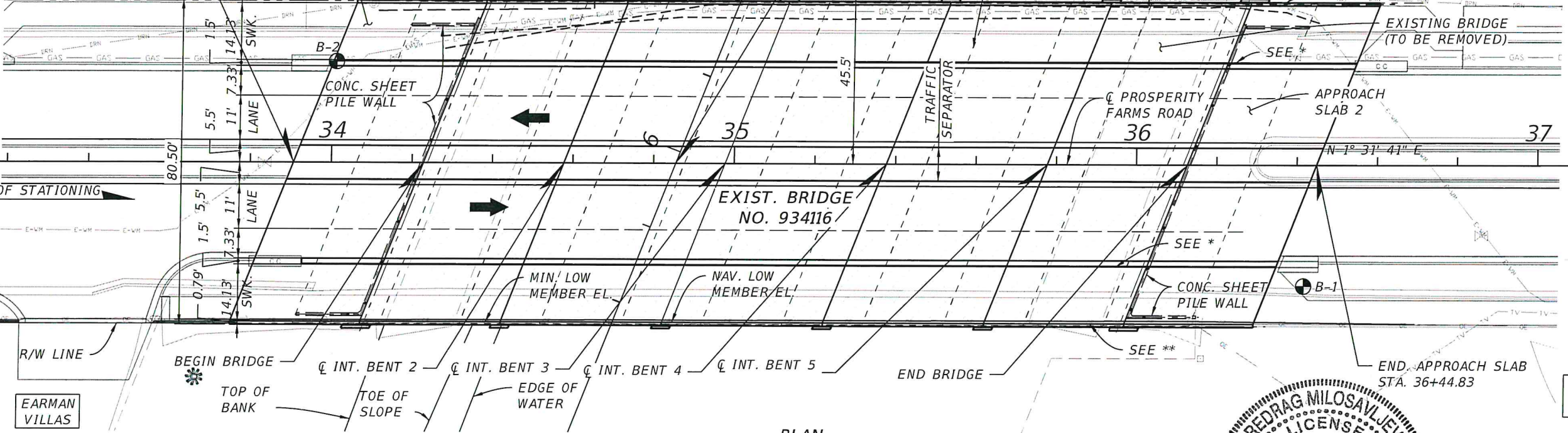
END. UTILITY BRIDGE  
STA. 36+30.00  
OFFSET 45.5' LT.



PHASE II CONST.

33

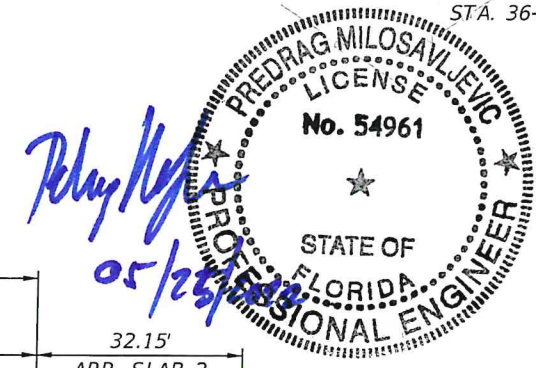
DIRECTION OF STATIONING



EARMAN VILLAS

BICKNELL  
LYDABELLE

PLAN

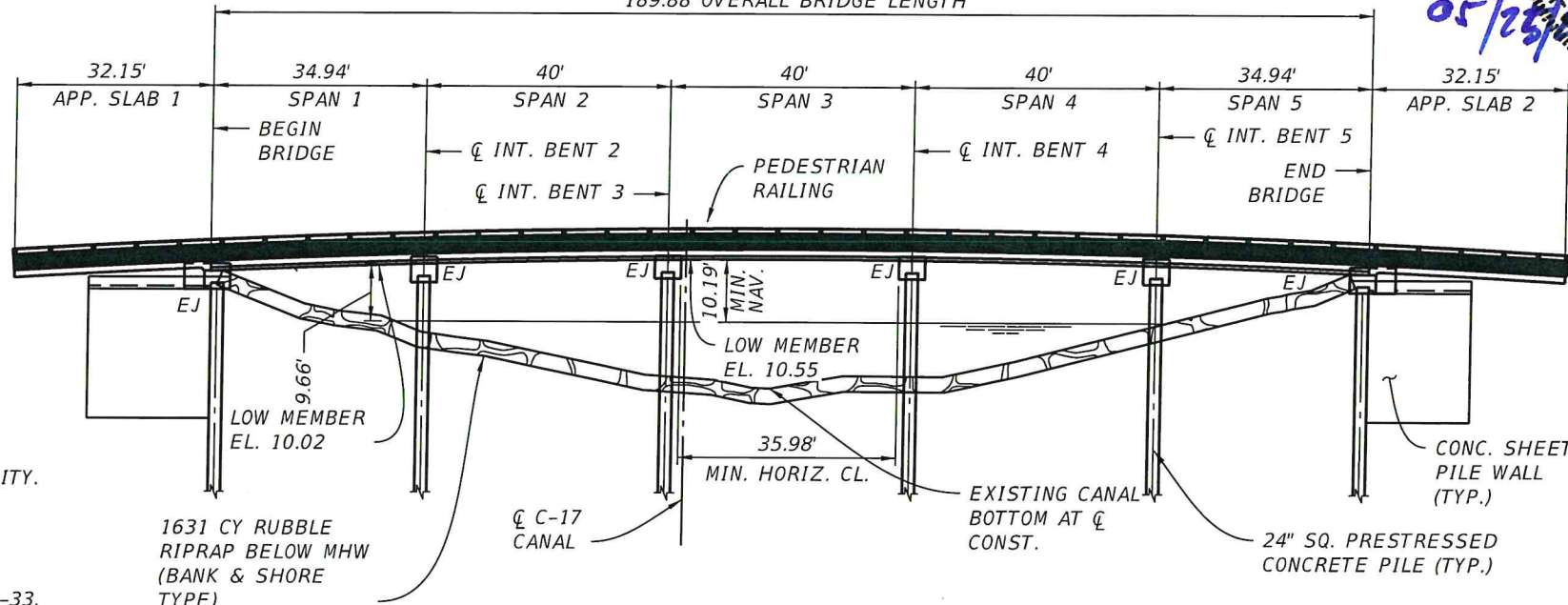


189.88 OVERALL BRIDGE LENGTH

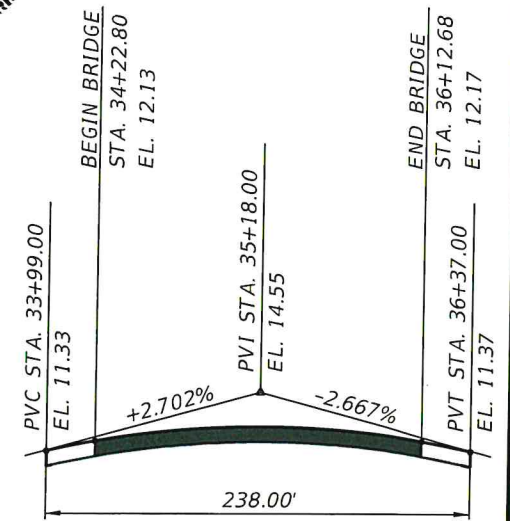
LEGEND

- SOIL BORING LOCATIONS
- LANES
- MHW=+0.36
- MLW=-2.45

- NOTES:
1. EXISTING BRIDGE PILES NOT SHOWN FOR CLARITY.
  2. \* - TRAFFIC RAILING (36" SINGLE-SLOPE INDEX NO. 521-427).
  3. \*\* - BRIDGE PEDESTRIAN /BICYCLE RAILING (ALUMINUM) (INDEX 515-061).
  4. FOR LIMITS OF RUBBLE RIPRAP SEE SHEET B1-33.
  5. FOR TRELLIS, BENCHES, LIGHTING AND OTHER ARCHITECTURAL TREATMENTS ON BRIDGE, SEE SP SHEETS.



ELEVATION



VERTICAL CURVE DATA  
PGL (LT) & PGL (RT)  
NORTH AMERICAN VERTICAL  
DATUM (NAVD)  
BRIDGE NO. 934116

PROSPERITY FARMS ROAD OVER SFWMD C-17 CANAL  
EARMAN RIVER  
NORTH PALM BEACH, PALM BEACH COUNTY, FL  
1.45 STATUTE MILES FROM CONFLUENCE OF MOUTH OF WATERWAY

NO.	REVISION	BY	DATE

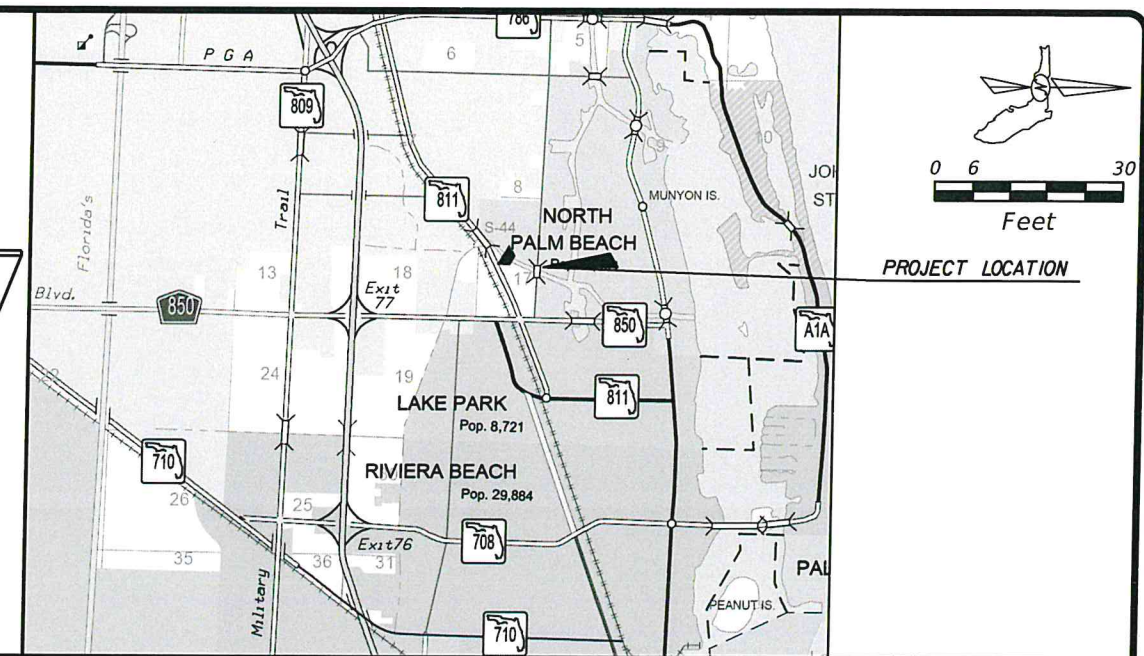
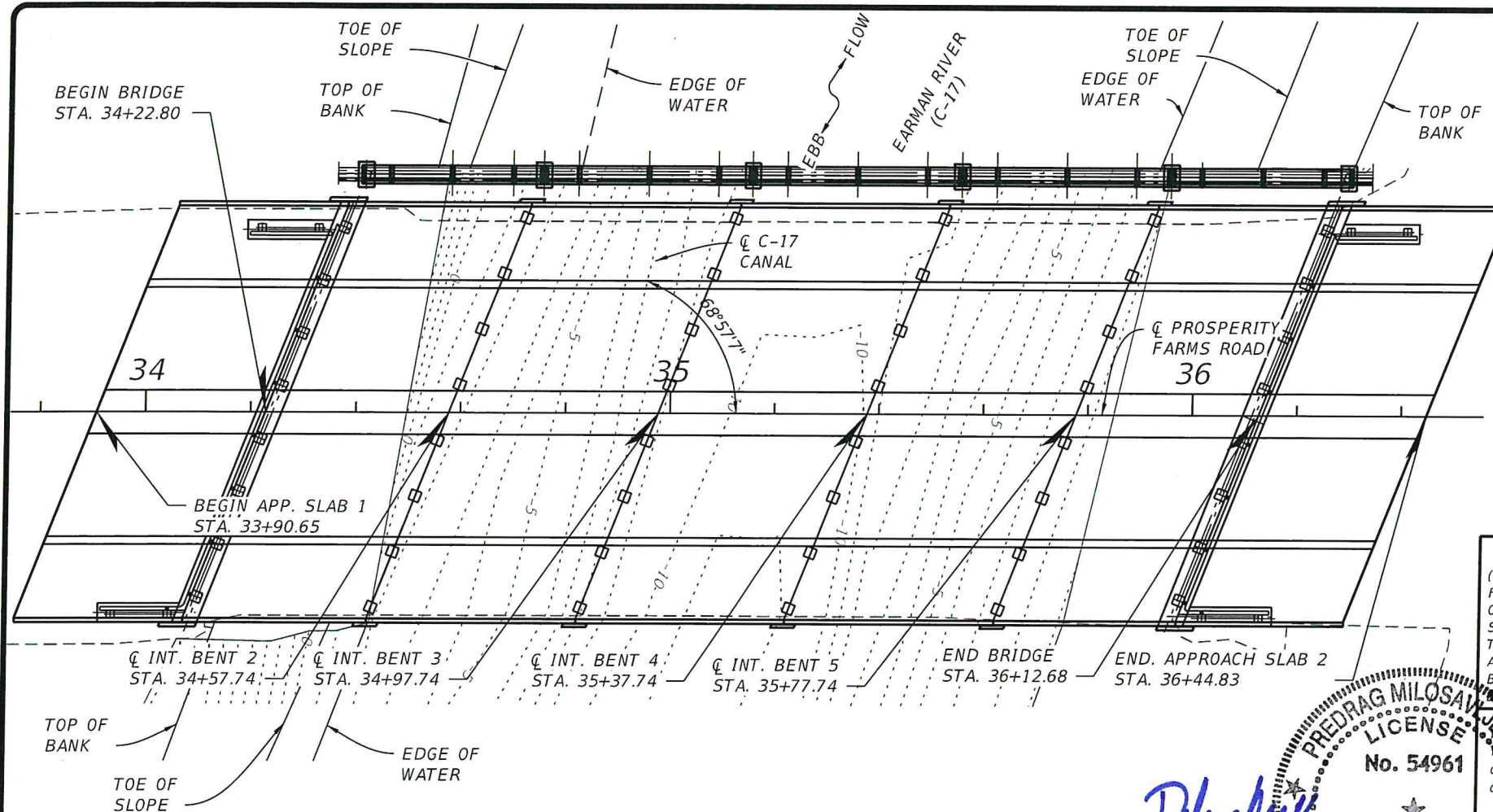
PALM BEACH COUNTY  
ENGINEERING AND PUBLIC WORKS  
ROADWAY PRODUCTION  
P.O. BOX 21229, WEST PALM BEACH, FLORIDA  
(661) 684-6160

SCALE: AS SHOWN  
APPROVED: PZM  
DRAWN: HJS  
CHECKED: HNS  
DATE: 5/25/2022

PLAN & ELEVATION

SHEET 2  
OF 4  
PROJECT NO. 200800

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(REFERENCE) FOUNDATION	EXISTING STRUCTURES				PROPOSED STRUCTURE
	(1)	(2)	(3)	(4)	
OVERALL LENGTH	14" CONC. PILES				2" CONC. PILES
SPAN LENGTH	180.0'				188.87'
TYPE CONSTRUCTION	9 SPANS @ 20.0'				1-34.84' 3-40' 1-34.84'
AREA OF OPENING@D.F.	CONCRETE				CONCRETE
BRIDGE WIDTH					80.5'
WEV. LOW MEMBER	80.75'				10.02
	8.82				

**HYDRAULIC DESIGN DATA**

Hydraulic data is a summary of design calculations and is provided for informational purposes only. The user is cautioned against the assumption of precision for the discharge rates, units are in cubic feet per second and the design stages, feet-NAVD 1988.

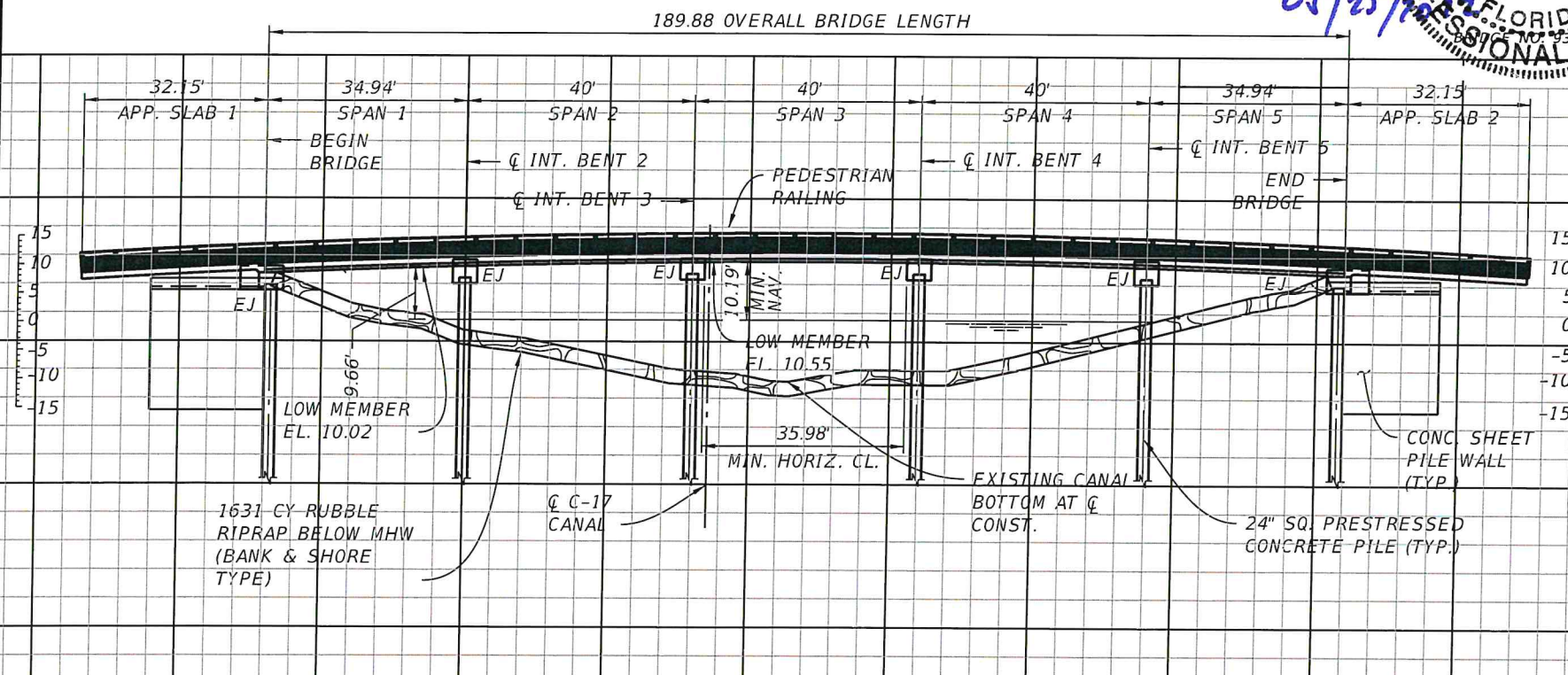
**TERMS**

- Design Flood: Utilized to assure a desired level of hydraulic performance.
- 100 Year Flood: Has a 1% chance of being exceeded in any given year (100 year frequency)
- Overflowing Flood: Causes flow over the highway, over a watershed divide, or thru emergency relief structures.
- Worst Flood: The most severe that can be predicted where overtopping is not practicable.

FLOOD DATA:	WATER SURFACE ELEVATIONS:		BASE FLOOD	OVERTOPPING or GREATEST FLOOD
	MAX. EVENT OF RECORD	DESIGN FLOOD		
STAGE ELEV. NAVD (ft)	N/A	5.91	6.60	8.25
DISCHARGE (cfs)	N/A	2401	2744	5831
AVERAGE VELOCITY (f/s)	N/A	2.05	2.34	4.86
EXCEEDANCE PROB. (%)	N/A	0.02	0.01	0.002
FREQUENCY (yr.)	N/A	50	100	500

SCOUR PREDICTIONS FOR PROPOSED STRUCTURE DESCRIBED ABOVE:

PIER INFORMATION	TOTAL SCOUR ELEVATION		
	LONG TERM SCOUR ELEV.	WORST CASE < 100 yr. FREQ. (yr.)	WORST CASE < 500 yr. FREQ. (yr.)
NUMBERS 2-5	24" SQ PRESTRESSED CONC. PILES	-12.67	-12.73
			-13.33



**HYDRAULIC RECOMMENDATIONS**

- BEGIN BRIDGE STATION 34+22.80 END BRIDGE STATION 36+12.68 SKEW ANGLE 68°57'7"
- CLEARANCE PROVIDED: NAV: HORIZ. 35.98' VERT. 10.19' ABOVE EL. 0.36 DRIFT: HORIZ. 35.98' VERT. 10.19' ABOVE EL. 0.36
- MINIMUM CLEARANCE: NAV: HORIZ. 35.98' VERT. 4.64' ABOVE EL. 5.91 DRIFT: HORIZ. 35.98' VERT. 4.64' ABOVE EL. 5.91
- ABUTMENTS:
 

	BEGIN BRIDGE BANK AND SHORE	END BRIDGE BANK AND SHORE
RUBBLE GRADE:	MATCH EXISTING	MATCH EXISTING
BURIED OR NON-BURIED HORIZ. TOE:	BURIED	BURIED
TOE HORIZ. DISTANCE:	2.0'	2.0'
LIMIT OF PROTECTION:	RIPRAP LIMITED TO AREAS WITHOUT MANGROVES	

5. DECK DRAINAGE: DRAINS TO INLETS ON EACH END OF BRIDGE

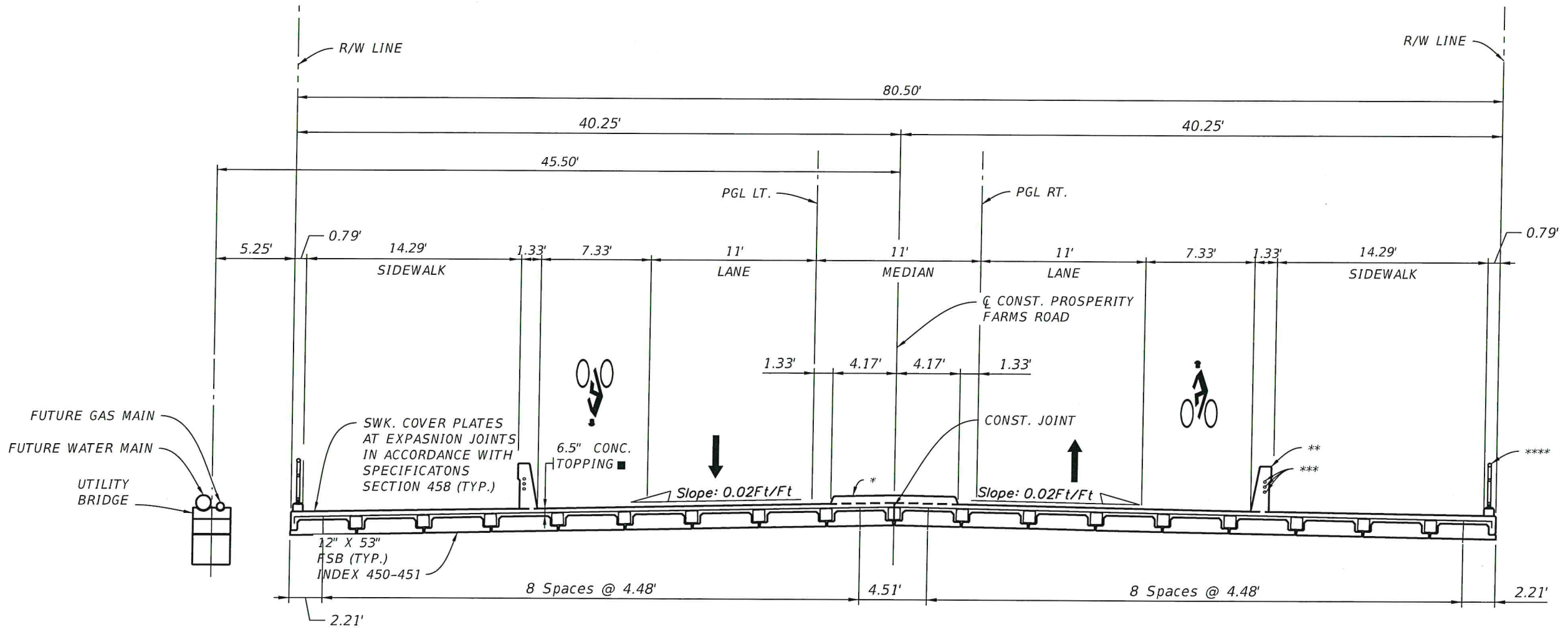
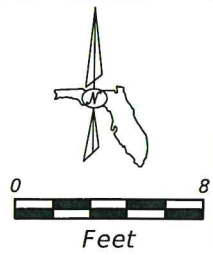
REMARKS: RIPRAP PROVIDED AS SCOUR PROTECTION. NORTH AMERICAN VERTICAL DATUM (NAVD) BRIDGE NO. 934116

*Phyllis*  
05/25/2022

**PREDRAG MILOSAVICIĆ**  
LICENSE NO. 54961  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

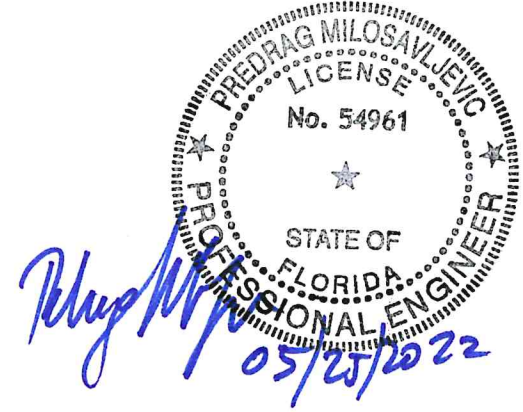
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PROSPERITY FARMS ROAD OVER SFWMD C-17 CANAL EARMAN RIVER NORTH PALM BEACH, PALM BEACH COUNTY, FL 1.45 STATUTE MILES FROM CONFLUENCE OF MOUTH OF WATERWAY		NO.	REVISION	BY	DATE	<b>PALM BEACH COUNTY</b> ENGINEERING AND PUBLIC WORKS <b>ROADWAY PRODUCTION</b> P.O. BOX 21229, WEST PALM BEACH, FLORIDA (561) 684-4150	SCALE: AS SHOWN APPROVED: PZM DRAWN: HJS CHECKED: AWS DATE: 5/25/2022	<b>BRIDGE HYDRAULICS</b> <b>RECOMMENDATION SHEET</b>	SHEET: 3 OF: 4
							DESIGN FILE NAME #FILES#	DRAWING NO.	PROJECT NO. 208880



TYPICAL SUPERSTRUCTURE SECTION

- \* TRAFFIC SEPARATOR TYPE F -OPTION I (INDEX 520-020)
- \*\* TRAFFIC RAILING (36" SINGLE-SLOPE INDEX NO. 521-427) (TYP.)
- \*\*\* 3-2" PVC CONDUITS (FUTURE USE) (TYP.) (INDEX 630-010)
- \*\*\*\* BRIDGE PEDESTRIAN/ BICYCLE RAILING (ALUMINUM) (INDEX 515-061) 48" SHBR SCHEME 2 (TYP.)
- 6" MIN. DEPTH AFTER PLANING



NORTH AMERICAN VERTICAL DATUM (NAVD)  
BRIDGE NO. 934116

5/25/2022 10:34:35 AM P:\3095\F\9309-00 Prosperity Farms Road - PBC\201805\Drawings\2022\Plan\Typical\road\1.dgn

PROSPERITY FARMS ROAD OVER SFWMD C-17 CANAL  
EARMAN RIVER  
NORTH PALM BEACH, PALM BEACH COUNTY, FL  
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NO.	REVISION	BY	DATE

**PALM BEACH COUNTY**  
ENGINEERING AND PUBLIC WORKS  
**ROADWAY PRODUCTION**  
P.O. BOX 21229, WEST PALM BEACH, FLORIDA  
(561) 684-4150

SCALE: AS SHOWN  
APPROVED: PZM  
DRAWN: HJS  
CHECKED: HWS  
DATE: 5/25/2022

TYPICAL SECTION THROUGH  
BRIDGE DECK

SHEET: 4  
OF: 4  
PROJECT NO. 2018000