

*INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS*

STRUCTURE CONTRACT PLANS

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66th AVENUE ROADWAY WIDENING

PHASE IB 57th STREET TO 69TH STREET
INDIAN RIVER COUNTY PROJECT No. 1505
FDOT FPID 436379-1-52-01

STRUCTURES
SHOP DRAWINGS
TO BE SUBMITTED TO:

BRIAN GOOD, P.E.
KIMLEY-HORN
445 24TH ST. SUITE 200
VERO BEACH, FL 32960
(772) 794-4100

PLANS PREPARED BY:

Kimley»Horn

1920 Wekiva Way, Suite 200
West Palm Beach, Florida 33411
Certificate Of Authorization No. 696

PROJECT NUMBER: 097035041

STRUCTURE PLANS:
ENGINEER OF RECORD: THOMAS W. FARNAN, P.E.
P.E. NO.: 49143



Department of Public Works

RICHARD B. SZPYRKA, P.E., DIRECTOR

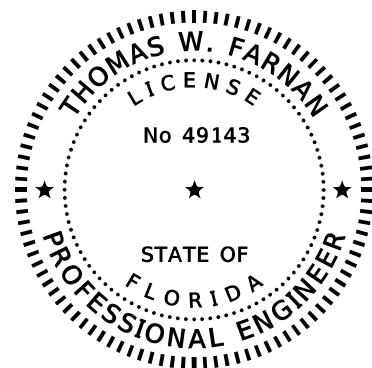
GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
"DESIGN STANDARDS" DATED JANUARY 2015,
AND "STANDARDS SPECIFICATIONS FOR ROAD
AND BRIDGE CONSTRUCTION" DATED 2015, AS
AMENDED BY CONTRACT DOCUMENTS.

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

SHEET
NO.

B-1

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

KIMLEY-HORN AND ASSOCIATES, INC.
 1920 WEKIVA WAY, SUITE 200
 WEST PALM BEACH, FLORIDA 33411
 CERTIFICATE OF AUTHORIZATION 696
 THOMAS W. FARNAN, P.E. NO. 49143

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH 61G15-23.004, F.A.C.

<u>SHEET NUMBER</u>	<u>SHEET DESCRIPTION</u>
B-1	KEY SHEET
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B-3	GENERAL NOTES
B-4	PLAN AND ELEVATION 61ST STREET BRIDGE
B-5	PLAN AND ELEVATION 65TH STREET BRIDGE
B-6	FOUNDATION LAYOUT 61ST STREET BRIDGE
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B-23	APPROACH SLAB LAYOUT
B-24	APPROACH SLAB DETAILS
B-25	REINFORCING BAR LIST

BRIDGE NO'S 880049 & 884038

REVISIONS						NAMES		DATES		 Certificate of Authorization No. 696 Thomas W. Farnan, P.E. P.E. License No. 49143 1920 Wekiva Way, Suite 200 West Palm Beach, Florida 33411	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS		SIGNATURE SHEET		SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY					ROADWAY IMPROVEMENTS TO C.R. 510 AND 66th AVENUE		61st & 65th STREET BRIDGES OVER 66th AVENUE CANAL		B-2
						CHECKED BY	RJF	06/07							
						DESIGNED BY	JJF	06/07							
						CHECKED BY	TWF	03/17							
						APPROVED BY	T.W. FARNAN								

GENERAL NOTES

A. Design Specifications

1. FDOT Structures Manual dated January 2017.
2. American Association of State Highway and Transportation Officials (AASHTO) Load and Resistance Factor (LRFD) Bridge Design Specifications, 7th Edition and all subsequent interim's.
3. FDOT Plans Preparation Manual dated January 2017.

B. Governing Standards and Construction Specifications

Florida Department of Transportation, 2016 Design Standards and July 2016 Standard Specifications for Road and Bridge Construction, as amended by Contract Documents.

C. Vertical Datum

All elevations refer to National Geodetic Vertical Datum (NGVD) of 1929.

D. Environment

Superstructure and Substructure are classified as Slightly Aggressive.

E. Design Methodology

Load Resistance and Factor Design (LRFD) method using Strength, Service and Fatigue Limit States.

F. Design Loadings

1. Live Loads:
HL-93 with Dynamic Load Allowance
2. Dead Loads:
Traffic Railing (42" Vertical Shape) 587 plf
Traffic Railing (32" F-Shape) 420 plf
Reinforced Concrete 150 pcf
Wearing Surface 40 psf
3. Utilities:
A 1000 plf allowance for utility loads has been included in the design.

G. Materials

1. Reinforcing Steel: Carbon Steel per Specifications Section 931.
2. Concrete
Class II (Approach Slabs) f'c = 3,400 psi Approach Slabs
Class II (Superstructure) f'c = 3,400 psi Barriers and Sidewalks
Class II (Substructure) f'c = 3,400 psi Bents and Precast Panels
Class IV (Superstructure) f'c = 5,500 psi All Closure Pours
Class V (Special) f'c = 6,000 psi Prestressed Piling
Class V f'c = 6,500 psi Precast Slab Units
3. Concrete Cover
Cast-In-Place Superstructure 2"
Precast Prestressed Slab Units (unless otherwise noted) 2"
Cast-In-Place Substructure (Cast Against Earth) 4"
Cast-In-Place Substructure (Formed Surfaces) 3"

Concrete cover dimensions shown in the plans do not include placement and fabrication tolerances unless shown as "minimum cover". See Specifications Section 415 for allowable tolerances. All dimensions pertaining to the location of reinforcing steel are to centerline of bar except where clear dimension is noted to face of concrete.

H. Applied Finish Coating

A Class 5 Finish Coating shall be applied to the portions of the structures shown on the Surface Finish Detail on this sheet.

I. Plan Dimensions

All dimensions in these plans are measured in feet either horizontally or vertically unless otherwise noted.

J. Utilities

For plan locations of existing utilities, see Plan and Elevation sheet. Locations of utilities shown in the plans are approximate. For disposition of utilities, see the Utility Adjustment sheets in the Roadway Plans.

N. Joints in Concrete

Construction joints will be permitted only at the locations indicated in the Plans. Additional construction joints or alterations to those shown shall require pre-approval of the Engineer.

O. Existing Bridge Construction Considerations

Dimension verification: Unless otherwise noted, the dimensions, elevations and intersecting angles shown are based on the information as detailed in the Original Construction Plans of the existing bridges and may not represent as-built conditions. It is the Contractor's responsibility to verify this data before beginning construction and notify the Engineer of any discrepancies.

P. Traffic Control Plans

For Maintenance of Traffic, see the Traffic Control Plans located in the Lead (Roadway) Component of these Plans.

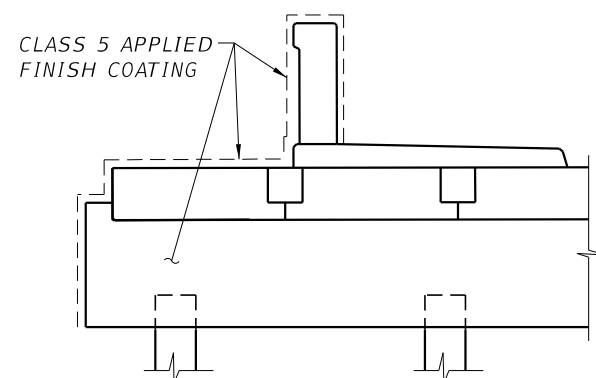
Q. Phasing of Work

Work phasing and progression of the work shall conform to the Traffic Control Plans located in the Lead (Roadway) Component of these Plans.

ABBREVIATIONS:

- C.I.P = Cast-In-Place
- N.F. = Near Face
- E.F. = Each Face
- F.F. = Far Face
- PR. = Pair
- U.O.N. = Unless otherwise noted
- P.E.J.M. = Premolded Expansion Joint Material

For additional standard abbreviations, see FDOT Design Standards, FY 2017-18.



DETAIL OF CONCRETE CLASS 5 SURFACE FINISH

PRESTRESSED MEMBERS:

FINISH:

All surfaces of the pre stressed Slab Unit shall receive a Class 3 surface finish.

CONCRETE STRENGTH AND DETENSIONING:

At transfer of the prestressing load, the concrete cylinder strength shall be 5,000 psi minimum.

HANDLING AND STORAGE:

During handling and storage, the prestressed units shall only be lifted from their designated lifting points and not their ends. Also, all slab units must be stored on adequate dunnage. The beam ends must be supported no closer than 5" to the end nor no further than 18" from the ends.

FORMS AND PALLETS:

All prestressed slab Units shall be cast on concrete based pallets and in metal forms. Blockouts for the closure pours may be formed with wood.

SHOP DRAWINGS:

The Contractor shall submit three (3) sets of shop drawings or one electronic copy, showing complete details of the proposed prestressed Slab Units. The drawings shall include reinforcing steel, prestressing steel, tensioning and detensioning schedules, camber calculations, and all computations required to control the work.

EQUIPMENT ON UNITS:

Before any heavy construction equipment over Florida Legal Loads is permitted on the structure during construction, sketches showing the axle spacing and anticipated loadings shall be submitted to and approved by the Engineer.

For additional prestressed Notes, see Prestressed Slab Unit sheets.

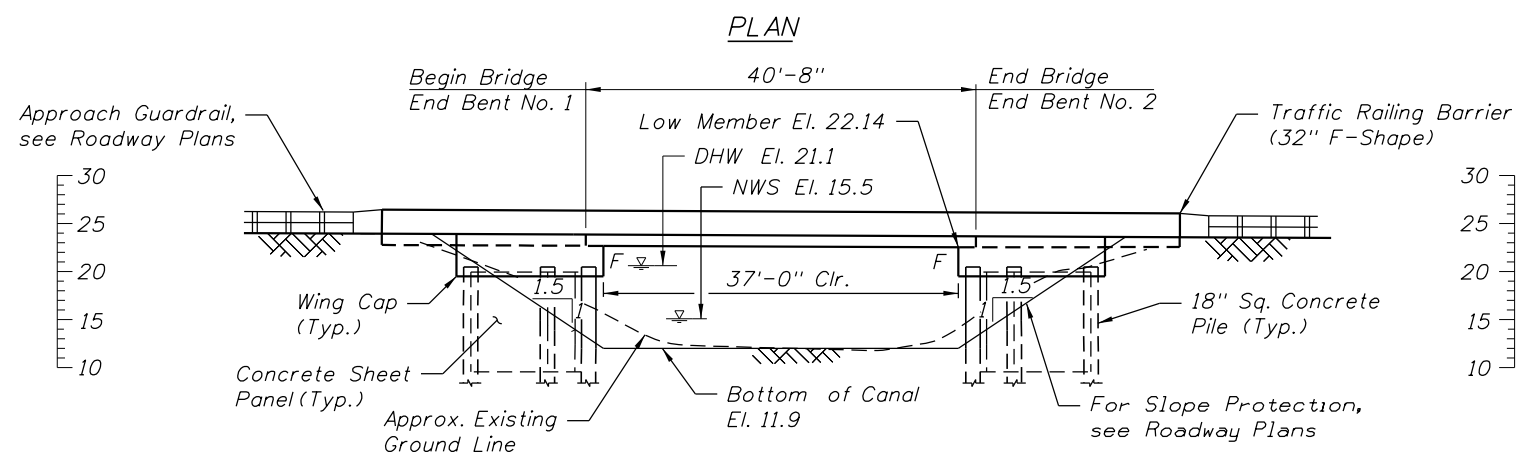
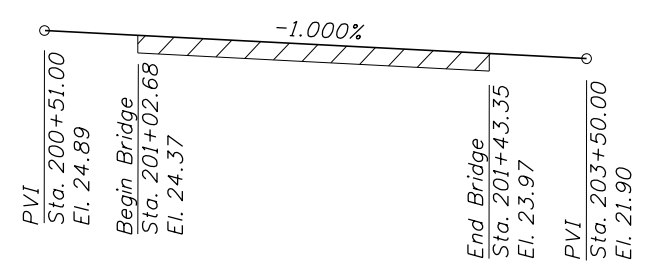
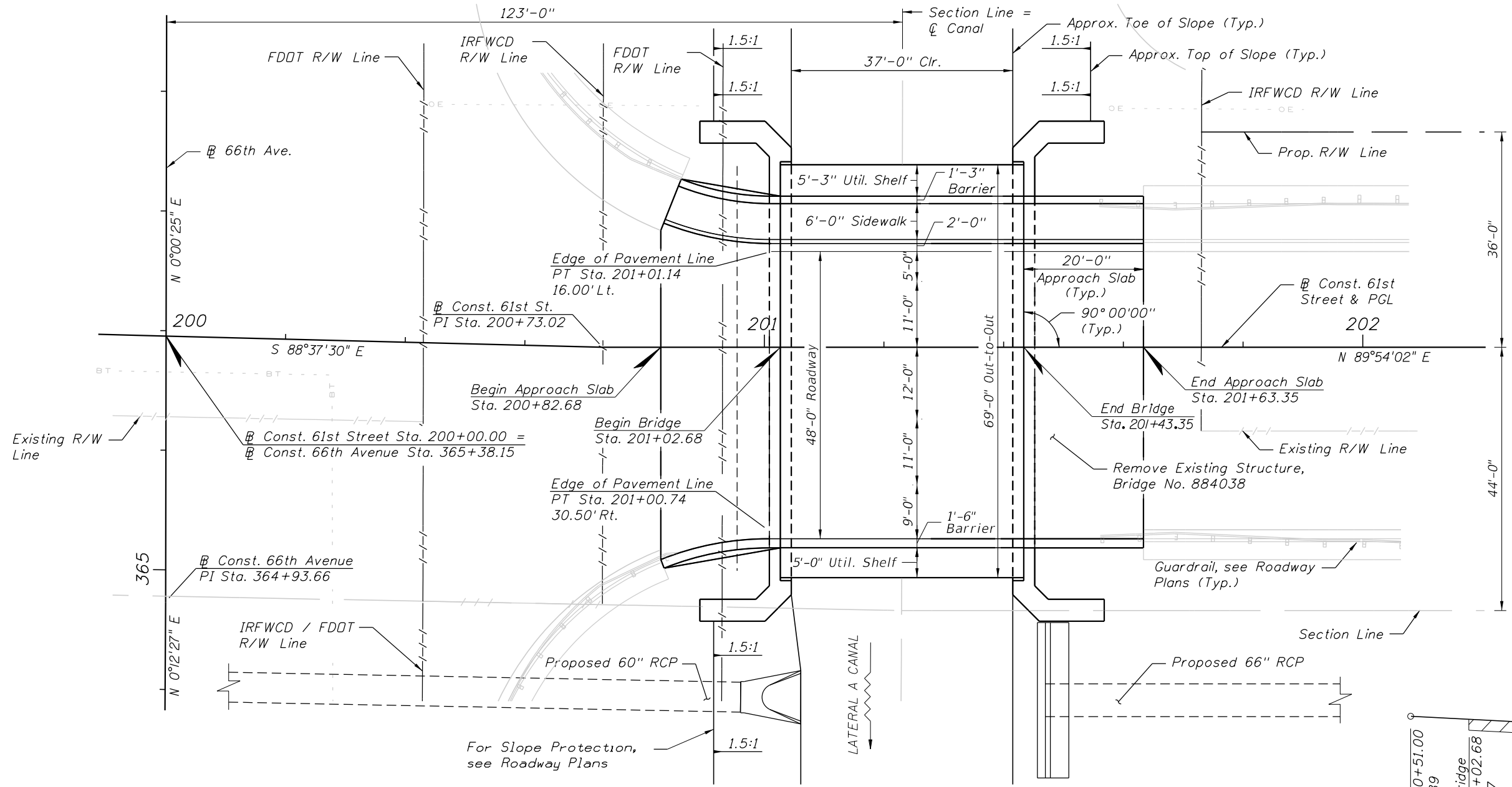
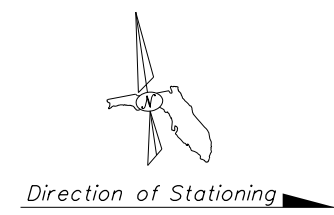
SUMMARY OF QUANTITIES PER BRIDGE

Br. No. 880049	Br. No. 884038	Pay Item Description	Unit	Quantity
Pay Item No.	Pay Item No.			
110-3	110-3A	Removal of Existing Structures	SF	960
400-2-4	400-2-4A	Class II Concrete (Superstructure)	CY	9
400-2-5	400-2-5A	Class II Concrete (Substructure)	CY	136
400-2-10	400-2-10A	Class II Concrete (Approach Slabs)	CY	99
400-4-4	400-4-4A	Class IV Concrete (Superstructure)	CY	23
400-148	400-148A	Plain Neoprene Bearing Pads	CF	1.7
415-1-4	415-1-4A	Reinforcing Steel (Superstructure)	LB	7390
415-1-5	415-1-5A	Reinforcing Steel (Substructure)	LB	9520
415-1-9	415-1-9A	Reinforcing Steel (Approach Slabs)	LB	20400
450-3-14	450-3-14A	Prestressed Slab Units (5'-0" Width)	LF	40
450-3-24	450-3-24A	Prestressed Slab Units (4'-0" Width)	LF	515
455-34-3	455-34-3A	Concrete Prestressed Piling (18" Square)	LF	1560
455-143-3	455-143-3A	Concrete Test Prestressed Piling (18" Square)	LF	150
458-1-11	458-1-11A	Expansion Joint Seal (Poured w/ Backer Rod)	LF	138
521-5-1	521-5-1A	Concrete Traffic Railing - Bridge (32" F-Shape)	LF	82
521-5-5	521-5-5A	Concrete Traffic Railing - Bridge (42" Vertical Shape)	LF	78

BRIDGE NO'S 880049 & 884038

REVISIONS						NAMES		DATES		Kimley»Horn Certificate of Authorization No. 696 Thomas W. Farnan, P.E. P.E. License No. 49143 1920 Wekiva Way, Suite 200 West Palm Beach, Florida 33411	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS ROADWAY IMPROVEMENTS TO C.R. 510 AND 66th AVENUE	GENERAL NOTES		SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	61st & 65th STREET BRIDGES OVER 66th AVENUE CANAL					
														B-3

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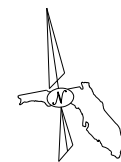


ELEVATION

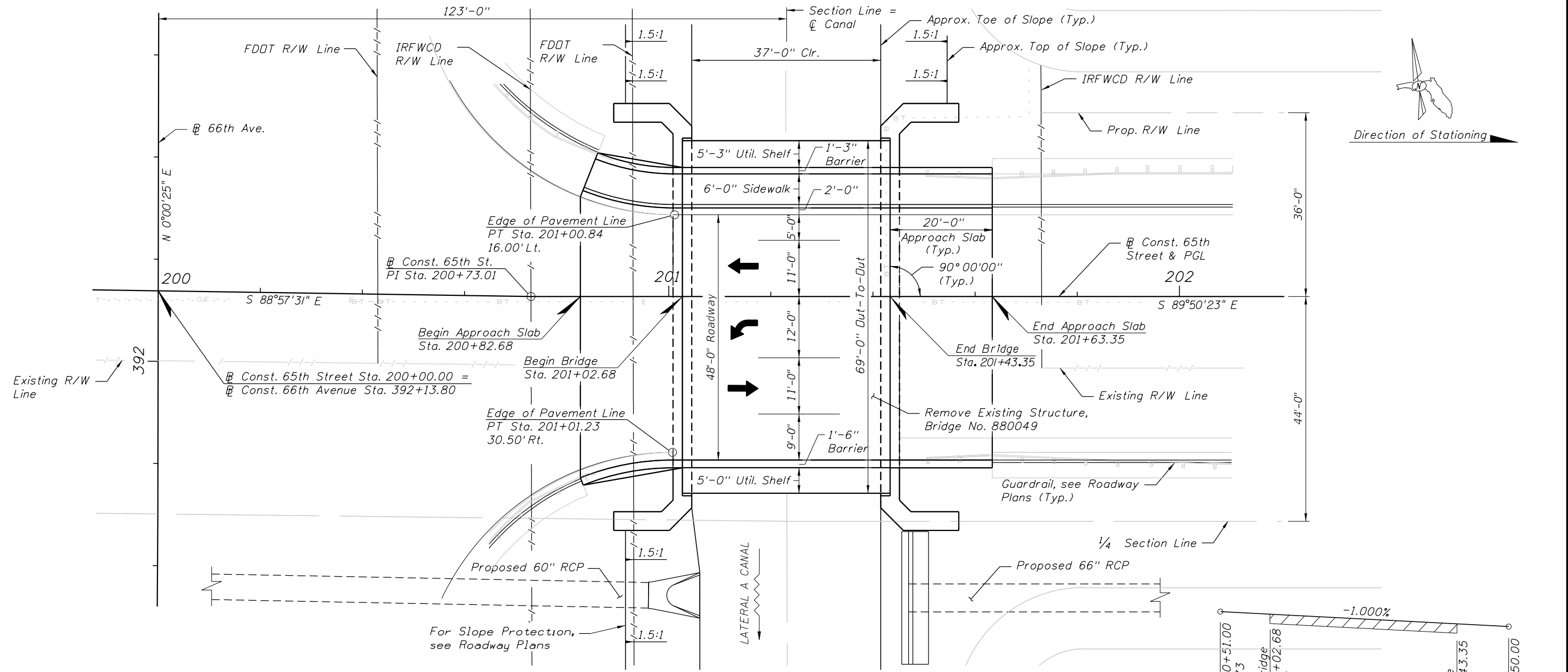
BRIDGE NO'S 880049 & 884038

REVISIONS						NAMES		DATES		Kimley»Horn Certificate of Authorization No. 696 Thomas W. Farnan, P.E. P.E. License No. 49143 1920 Wekiva Way, Suite 200 West Palm Beach, Florida 33411	INDIAN RIVER COUNTY		BOARD OF COUNTY COMMISSIONERS		PLAN & ELEVATION		SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY	CHECKED BY	DESIGNED BY	CHECKED BY		APPROVED BY	ROADWAY IMPROVEMENTS		61st & 65th STREET BRIDGES		B-4	
						RJF	TWF	JJF	TWF		T.W. FARNAN	TO C.R. 510 AND 66th AVENUE		OVER 66th AVENUE CANAL			

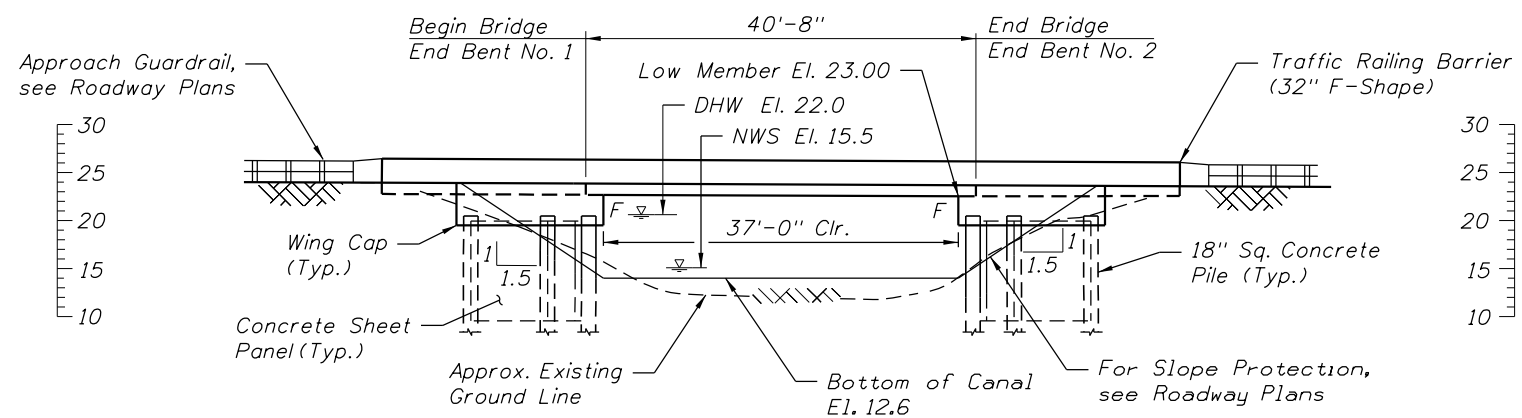
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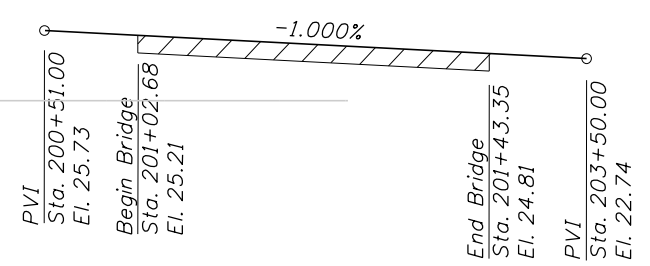
Direction of Stationing



PLAN



ELEVATION



PROFILE GRADE

BRIDGE NO'S 880049 & 884038

REVISIONS			
DATE	BY	DESCRIPTION	

NAMES	DATES
DRAWN BY: RJF	06/07
CHECKED BY: TWF	03/17
DESIGNED BY: JJF	06/07
CHECKED BY: TWF	03/17
APPROVED BY: T.W. FARNAN	

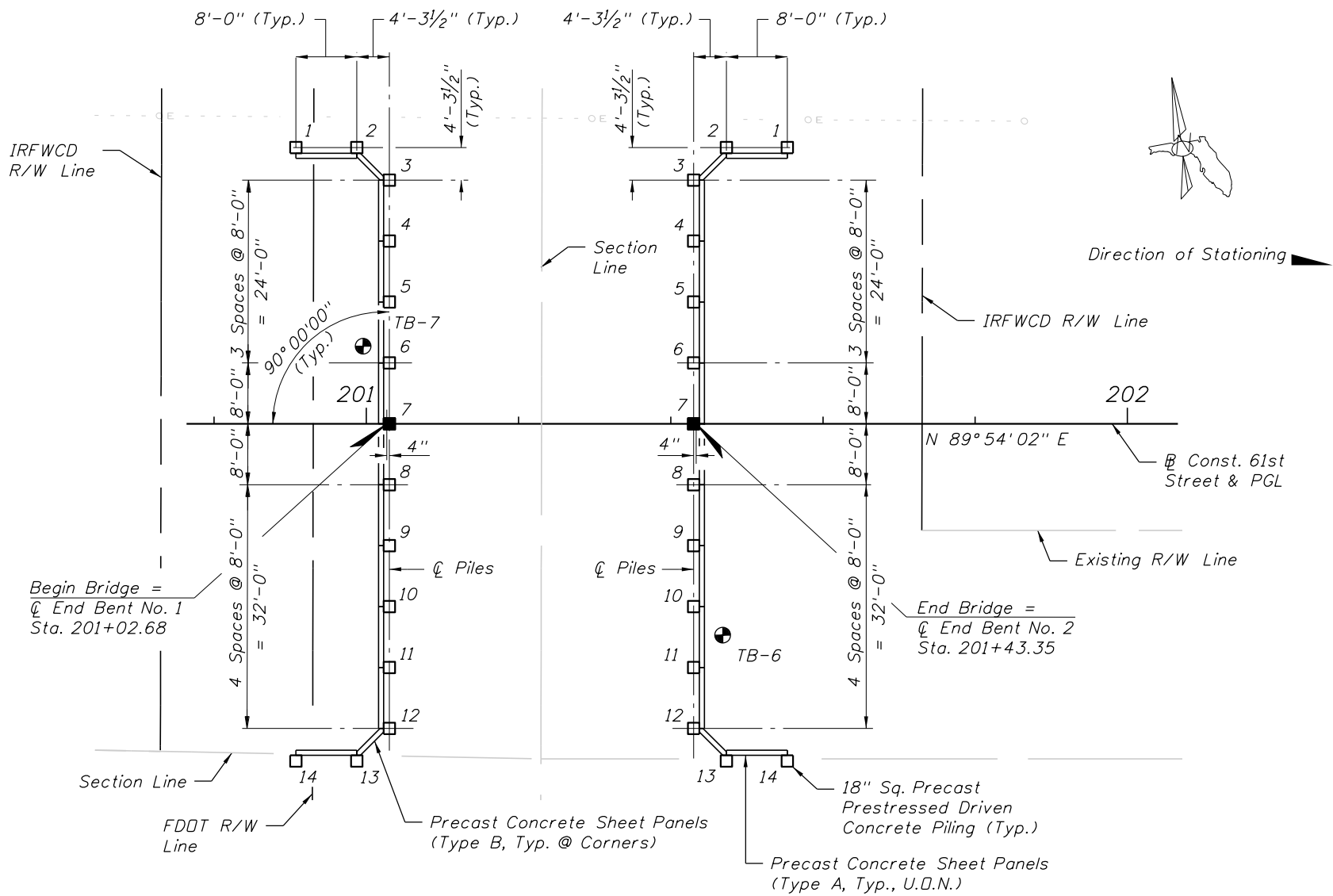
KimleyHorn
 Certificate of Authorization No. 696
 Thomas W. Farnan, P.E.
 P.E. License No. 49143
 1920 Wekiva Way, Suite 200
 West Palm Beach, Florida 33411

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
ROADWAY IMPROVEMENTS
TO C.R. 510 AND 66th AVENUE

PLAN & ELEVATION
61st & 65th STREET BRIDGES
OVER 66th AVENUE CANAL

SHEET NO.
 B-5

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PLAN

PILE INSTALLATION NOTES:

1. For Bridge Geotechnical information, see sheets "Subsurface Profiles (1,2 of 2)."
2. All piling to be 18" Square Prestressed Concrete Piling.
3. Minimum Tip Elevation is required per Standard Specification Section 455.
4. No jetting will be allowed without the approval of the Engineer.
5. The Contractor should not anticipate being allowed to jet piles below the Minimum Tip Elevation.
6. At each End Bent, pile driving is to commence at the center of the End Bent and proceed outward.
7. All pile driving operations shall be in accordance with FDOT Specification 455.
8. Test Piles shall be driven in the position of a permanent pile. Test Pile locations and length shall be determined by the Contractor and the Geotechnical Engineer.
9. For Pile Cutoff elevations, see "End Bent No. 1,2 Layout" sheets.
10. All pile shall be driven to Nominal Bearing Resistance:

$$\text{Nominal Bearing Resistance} = \frac{(\text{Factored Design Load} + \text{Net Scour} + \text{Down Drag})}{\phi}$$

where ϕ is a performance factor of 0.65 when a dynamic load test is performed as defined in Section 3.5 of FDOT Structures Design Guidelines, effective January 1, 2007.

11. Dynamic Measurements shall be taken during driving of the test piles designated in the plans by using the Pile Driving (PDA) in accordance with Sections 455-5.13 and 455-5.14.
12. The Contractor shall verify the locations of all utilities prior to any pile driving.
13. For Precast Concrete Sheet Panel Details, see "End Bent Details (2 of 2)."

LEGEND:

- ⊕ — Indicates Boring Location
- — Indicates Proposed 18" Pile
- — Indicates Proposed 18" Test Pile

PILE DATA TABLE														
INSTALLATION CRITERIA								DESIGN CRITERIA						
BENT NO.	PILE SIZE (in.)	NOMINAL BEARING RESISTANCE (tons)	TENSION RESISTANCE (tons)	MINIMUM TIP ELEVATION (ft.)	TEST PILE LENGTH (ft.)	REQUIRED JET ELEVATION (ft.)	REQUIRED PREFORM ELEVATION (ft.)	FACTORED DESIGN LOAD (tons)	DOWN DRAG (tons)	TOTAL SCOUR RESISTANCE (tons)	NET SCOUR RESISTANCE (tons)	100-YEAR SCOUR ELEVATION (ft.)	LONG TERM SCOUR ELEVATION (ft.)	RESISTANCE FACTOR- ϕ
EB 1	18	155	N/A	-5	75	N/A	N/A	100	N/A	*	*	*	*	0.65
EB 2	18	155	N/A	-5	75	N/A	N/A	100	N/A	*	*	*	*	0.65

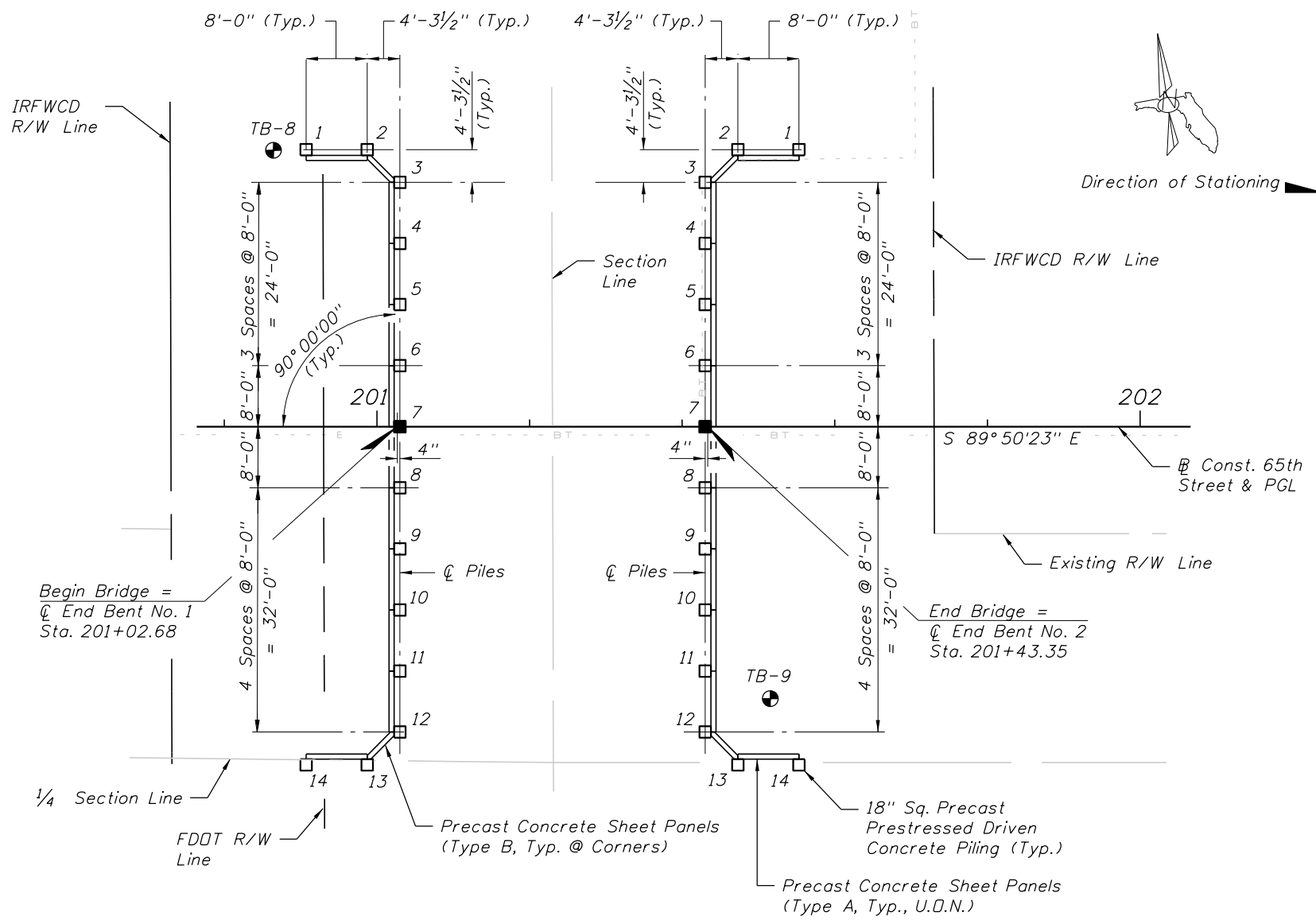
* End Bents protected by Rock Slope Protection

NOTE: Scour Analysis was not conducted for this waterway since it is controlled.

REVISIONS						NAMES		DATES		Kimley»Horn Certificate of Authorization No. 696 Thomas W. Farnan, P.E. P.E. License No. 49143 1920 Wekiva Way, Suite 200 West Palm Beach, Florida 33411		INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS		FOUNDATION LAYOUT		SHEET NO.		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY	RJF	06/07	CHECKED BY			TWF	03/17	ROADWAY IMPROVEMENTS TO C.R. 510 AND 66th AVENUE		61st & 65th STREET BRIDGES OVER 66th AVENUE CANAL		B-6
						DESIGNED BY	JJF	06/07	CHECKED BY			TWF	03/17					
						APPROVED BY	T.W. FARNAN											

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BRIDGE NO'S 880049 & 884038



PLAN

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$$\text{Nominal Bearing Resistance} = \frac{(\text{Factored Design Load} + \text{Net Scour} + \text{Down Drag})}{\phi}$$

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LEGEND:

- ⊕ — Indicates Boring Location
- — Indicates Proposed 18" Pile
- — Indicates Proposed 18" Test Pile

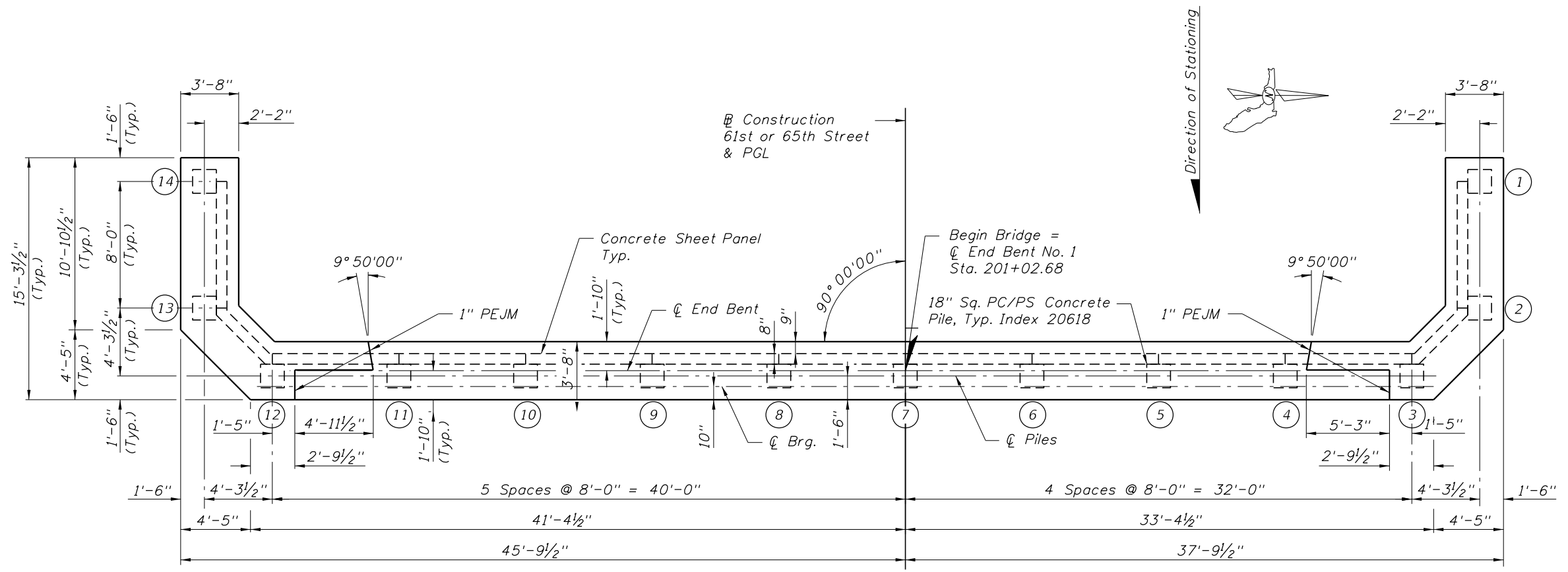
PILE DATA TABLE														
INSTALLATION CRITERIA								DESIGN CRITERIA						
BENT NO.	PILE SIZE	NOMINAL BEARING RESISTANCE	TENSION RESISTANCE	MINIMUM TIP ELEVATION	TEST PILE LENGTH	REQUIRED JET ELEVATION	REQUIRED PREFORM ELEVATION	FACTORED DESIGN LOAD	DOWN DRAG	TOTAL SCOUR RESISTANCE	NET SCOUR RESISTANCE	100-YEAR SCOUR ELEVATION	LONG TERM SCOUR ELEVATION (ft)	RESISTANCE FACTOR- ϕ
	(in.)	(tons)	(tons)	(ft.)	(ft.)	(ft.)	(ft.)	(tons)	(tons)	(tons)	(tons)	(ft.)		
EB 1	18	155	N/A	-5	75	N/A	N/A	100	N/A	*	*	*	*	0.65
EB 2	18	155	N/A	-5	75	N/A	N/A	100	N/A	*	*	*	*	0.65

* End Bents protected by Rock Slope Protection

NOTE: Scour Analysis was not conducted for this waterway since it is controlled.

REVISIONS DATE BY DESCRIPTION DATE BY DESCRIPTION				DRAWN BY: RJF 06/07 CHECKED BY: TWF 03/17 DESIGNED BY: JJF 06/07 CHECKED BY: TWF 03/17 APPROVED BY: T.W. FARNAN		Kimley»Horn Certificate of Authorization No. 696 Thomas W. Farnan, P.E. P.E. License No. 49143 1920 Wekiva Way, Suite 200 West Palm Beach, Florida 33411		INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS ROADWAY IMPROVEMENTS TO C.R. 510 AND 66th AVENUE		FOUNDATION LAYOUT 61st & 65th STREET BRIDGES OVER 66th AVENUE CANAL		BRIDGE NO'S 880049 & 884038 SHEET NO. B-7
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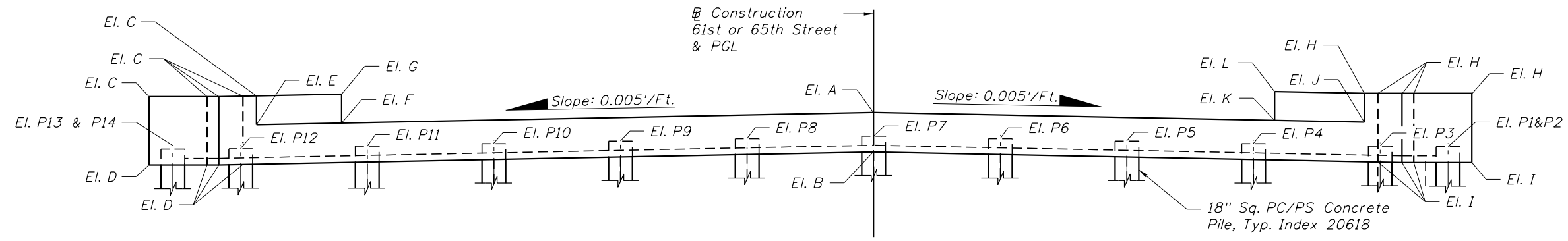
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PLAN

NOTES:

- Concrete sheet panels not shown for clarity. See Foundation Layout sheet for layout.
- (X) Indicates pile number



ELEVATION

TABLE OF BENT ELEVATIONS

BRIDGE	A	B	C	D	E	F	G	H	I	J	K	L	P1&2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13&14
61st Street over 66th Ave. Canal	22.66	20.16	24.18	19.95	22.46	22.49	24.20	24.22	19.99	22.50	22.53	24.24	21.0	21.0	21.1	21.1	21.2	21.2	21.2	21.1	21.1	21.00	21.0	21.0
65th Street over 66th Ave. Canal	23.50	21.00	25.02	20.79	23.30	23.33	25.04	25.06	20.83	23.34	23.37	25.08	21.8	21.8	21.9	21.9	22.0	22.0	22.0	21.9	21.9	21.8	21.8	21.8

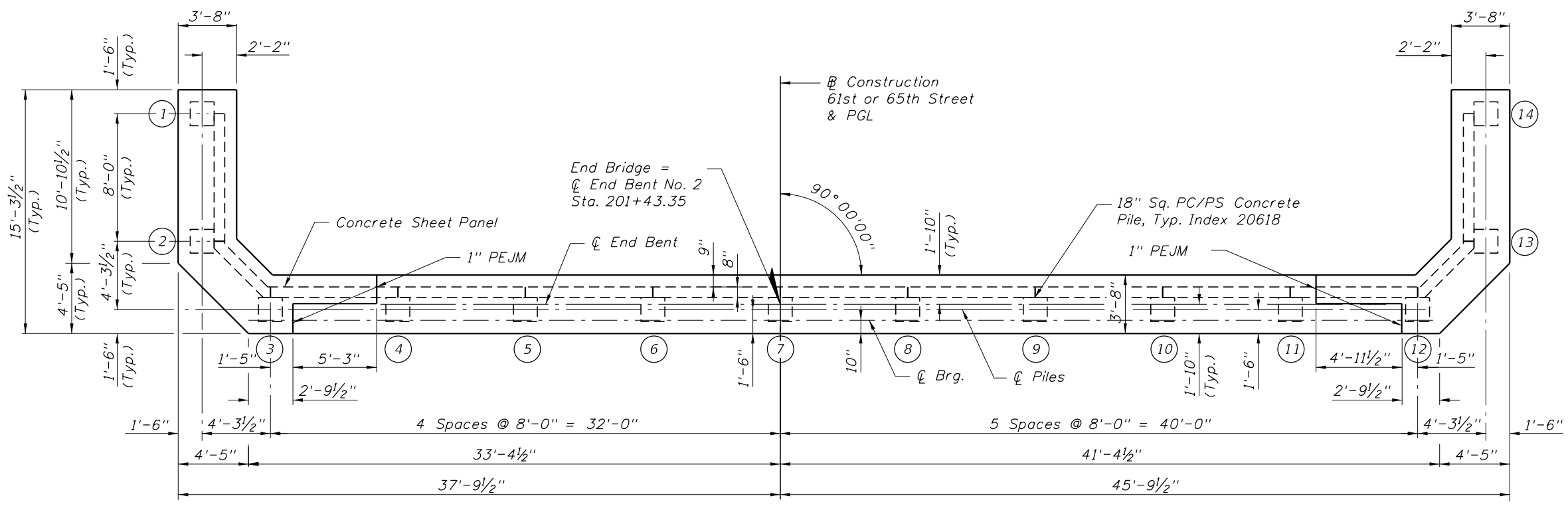
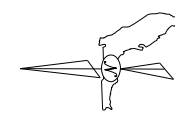
TABLE OF PILE ELEVATIONS

BRIDGE NO'S 880049 & 884038

<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION							<table border="1"> <thead> <tr> <th>NAMES</th> <th>DATES</th> </tr> </thead> <tbody> <tr> <td>DRAWN BY: RJF</td> <td>06/07</td> </tr> <tr> <td>CHECKED BY: TWF</td> <td>03/17</td> </tr> <tr> <td>DESIGNED BY: JJF</td> <td>06/07</td> </tr> <tr> <td>CHECKED BY: TWF</td> <td>03/17</td> </tr> <tr> <td>APPROVED BY: T.W. FARNAN</td> <td> </td> </tr> </tbody> </table>		NAMES	DATES	DRAWN BY: RJF	06/07	CHECKED BY: TWF	03/17	DESIGNED BY: JJF	06/07	CHECKED BY: TWF	03/17	APPROVED BY: T.W. FARNAN		<p>Kimley-Horn</p> <p>Certificate of Authorization No. 696 Thomas W. Farnan, P.E. P.E. License No. 49143 1920 Wekiva Way, Suite 200 West Palm Beach, Florida 33411</p>			<p>INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS</p> <p>ROADWAY IMPROVEMENTS TO C.R. 510 AND 66th AVENUE</p>			<p>END BENT NO. 1 LAYOUT</p> <p>61st & 65th STREET BRIDGES OVER 66th AVENUE CANAL</p>			<p>SHEET NO.</p> <p>B-10</p>
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION																																		
NAMES	DATES																																						
DRAWN BY: RJF	06/07																																						
CHECKED BY: TWF	03/17																																						
DESIGNED BY: JJF	06/07																																						
CHECKED BY: TWF	03/17																																						
APPROVED BY: T.W. FARNAN																																							

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

Direction of Stationing

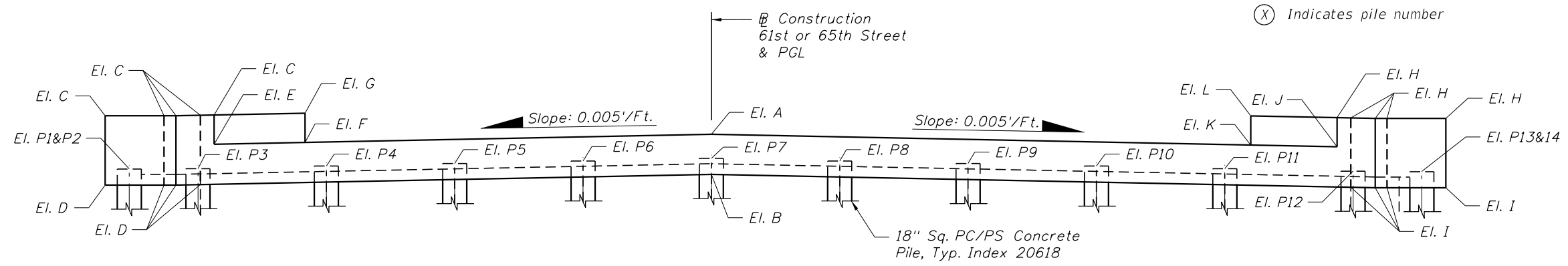


PLAN

NOTES:

1. Concrete sheet panels not shown for clarity. See Foundation Layout sheet for layout.

(X) Indicates pile number



ELEVATION

TABLE OF BENT ELEVATIONS

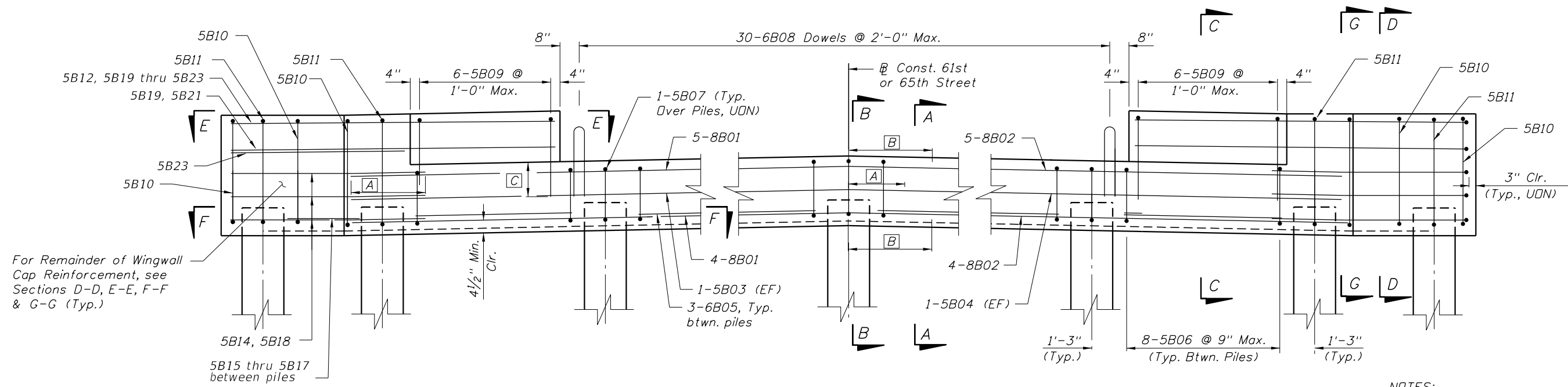
BRIDGE	A	B	C	D	E	F	G	H	I	J	K	L	P1&2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13&14
61st Street over 66th Ave. Canal	22.25	19.75	23.82	19.59	22.09	22.12	23.84	23.78	19.55	22.05	22.08	23.80	20.6	20.6	20.6	20.7	20.7	20.7	20.7	20.7	20.6	20.6	20.6	20.6
65th Street over 66th Ave. Canal	23.09	20.59	24.66	20.43	22.93	22.96	24.68	24.62	20.39	22.89	22.92	24.64	21.4	21.4	21.4	21.5	21.5	21.6	21.6	21.6	21.5	21.5	21.4	21.4

TABLE OF PILE ELEVATIONS

BRIDGE NO'S 880049 & 884038

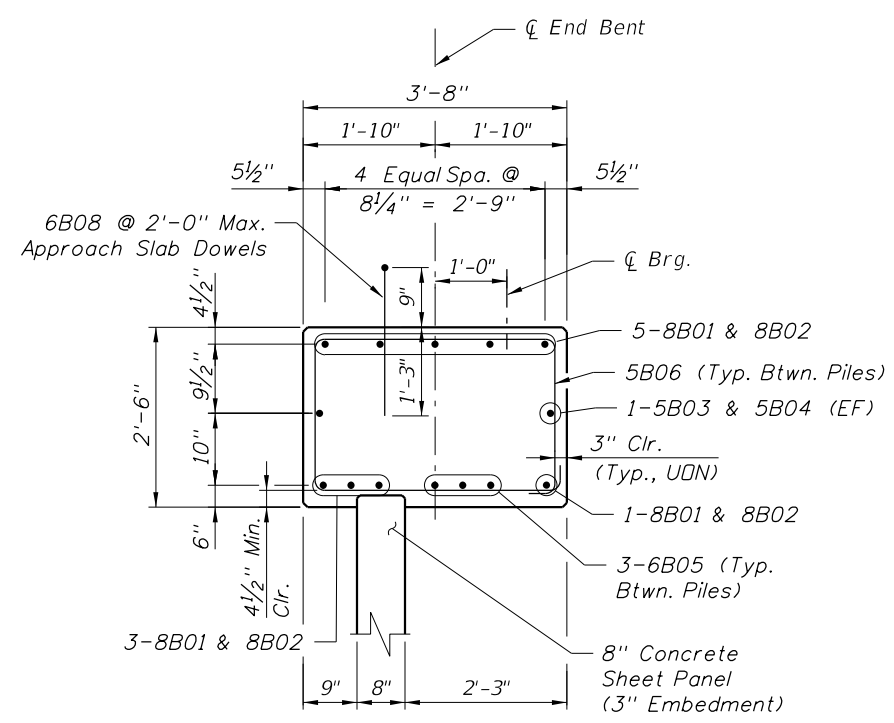
REVISIONS				NAMES		DATES		Kimley»Horn Certificate of Authorization No. 696 Thomas W. Farnan, P.E. P.E. License No. 49143 1920 Wekiva Way, Suite 200 West Palm Beach, Florida 33411	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS ROADWAY IMPROVEMENTS TO C.R. 510 AND 66th AVENUE	END BENT NO. 2 LAYOUT 61st & 65th STREET BRIDGES OVER 66th AVENUE CANAL	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY	CHECKED BY	DESIGNED BY	CHECKED BY	APPROVED BY	SHEET NO.					

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

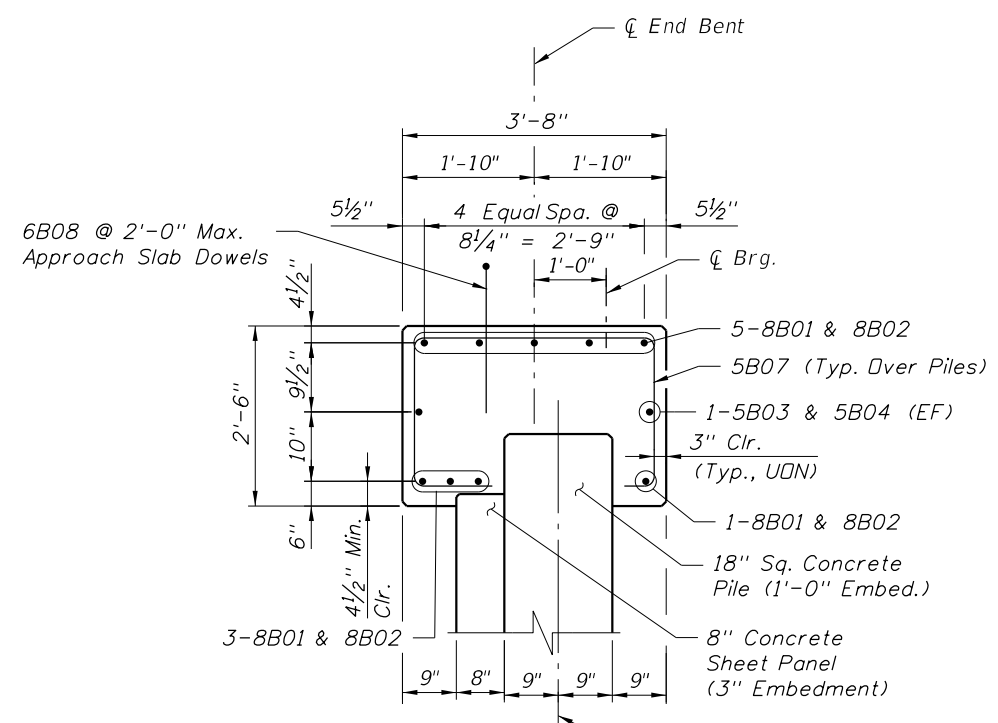


PARTIAL ELEVATION
 (End Bent 2 Shown, End Bent 1 Similar by Opposite Hand)

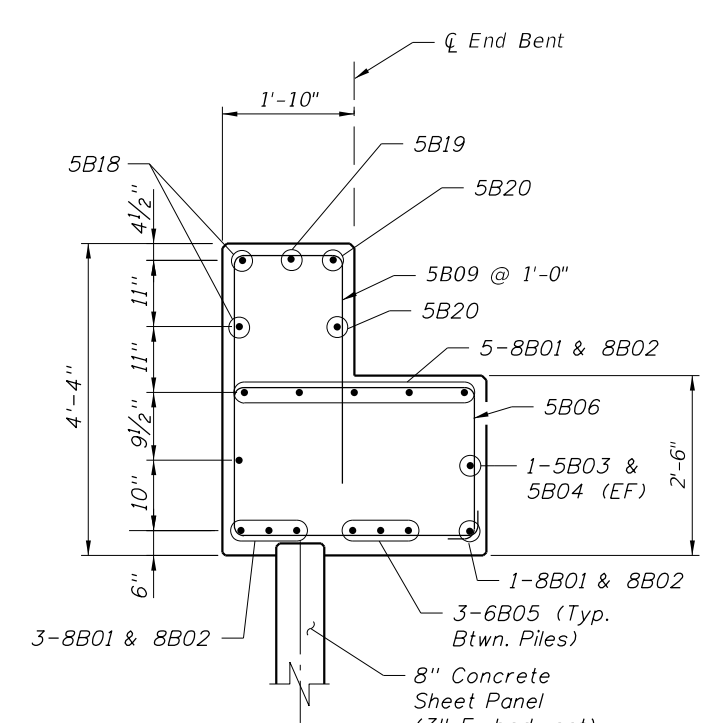
- NOTES:**
- [A] 2'-7" Min. Lap Length (Typ.)
 - [B] 5'-6" Min. Lap Length (Typ.)
 - [C] 1'-3" Min. Embed. (Typ.)



SECTION A-A



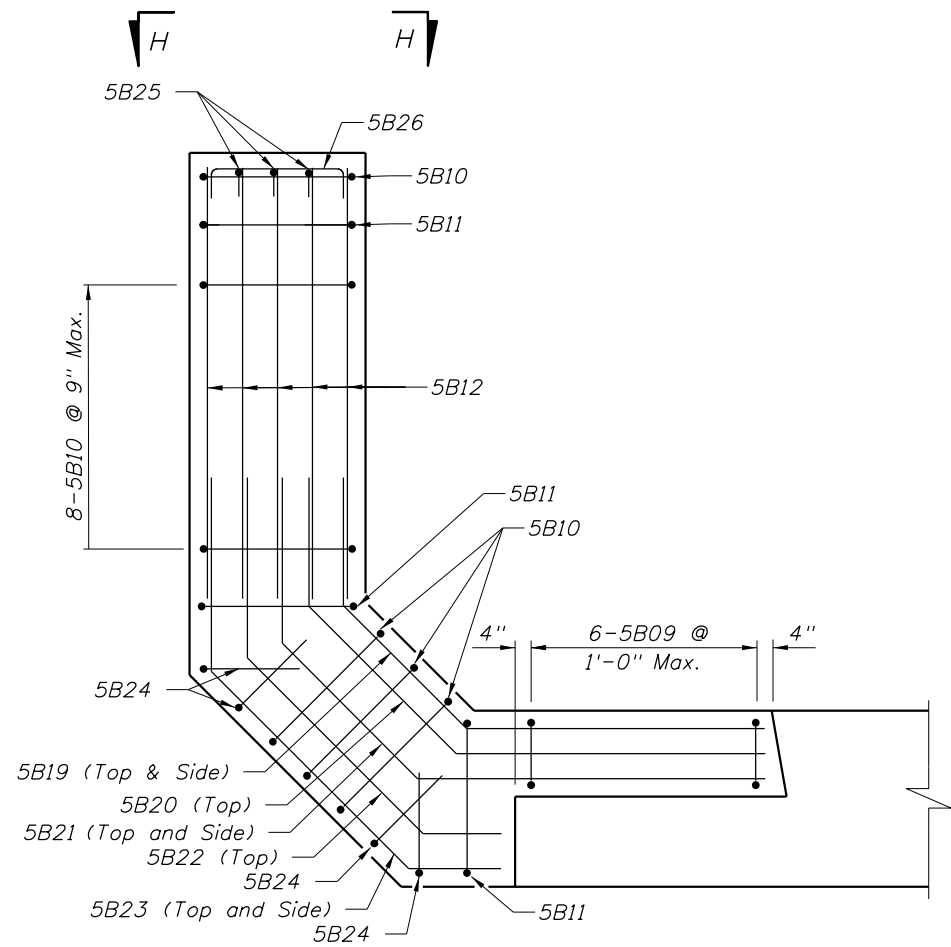
SECTION B-B



SECTION C-C

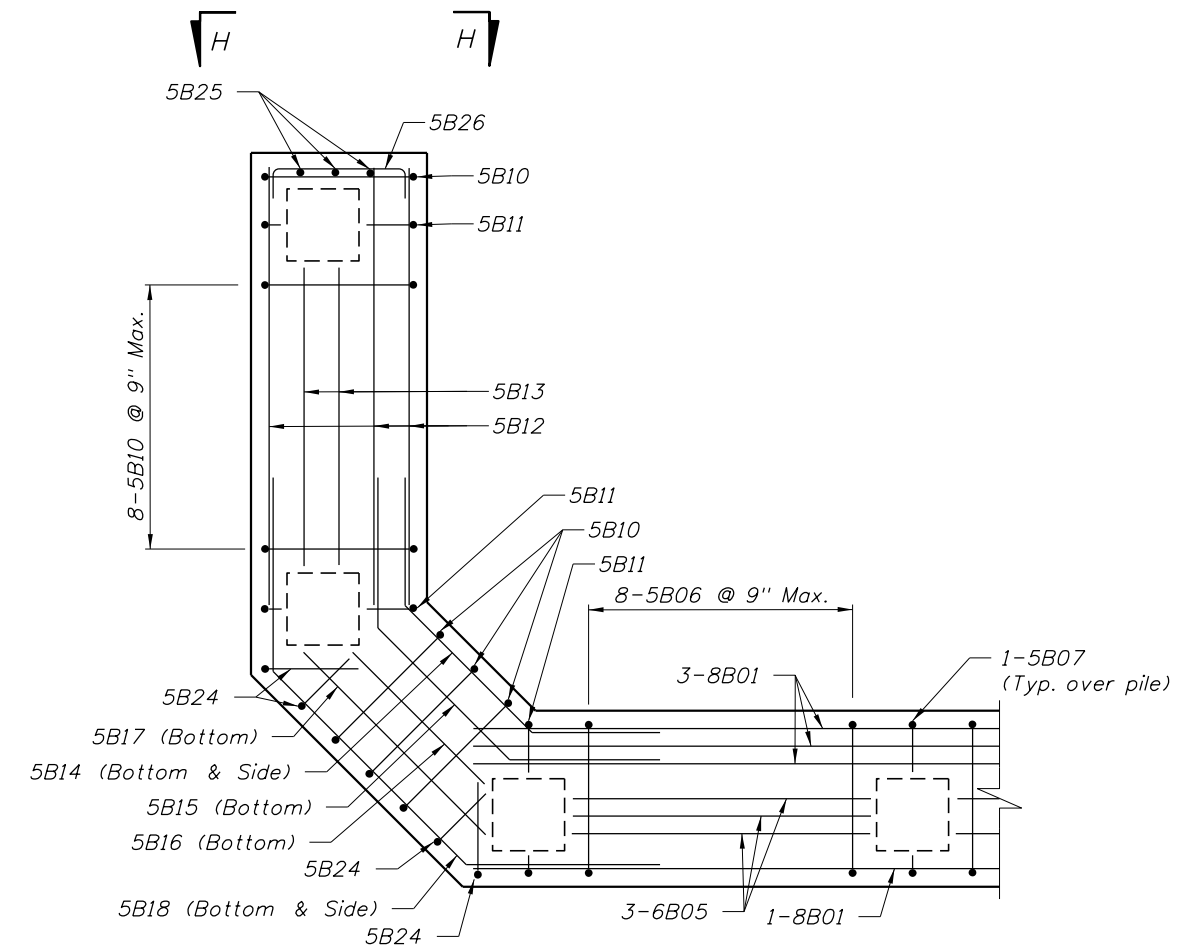
REVISIONS						NAMES		DATES		Kimley»Horn Certificate of Authorization No. 696 Thomas W. Farnan, P.E. P.E. License No. 49143 1920 Wekiva Way, Suite 200 West Palm Beach, Florida 33411	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS ROADWAY IMPROVEMENTS TO C.R. 510 AND 66th AVENUE	BRIDGE NO'S 880049 & 884038 END BENT DETAILS (1 OF 3) 61st & 65th STREET BRIDGES OVER 66th AVENUE CANAL	SHEET NO. B-12			
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	DATE									

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



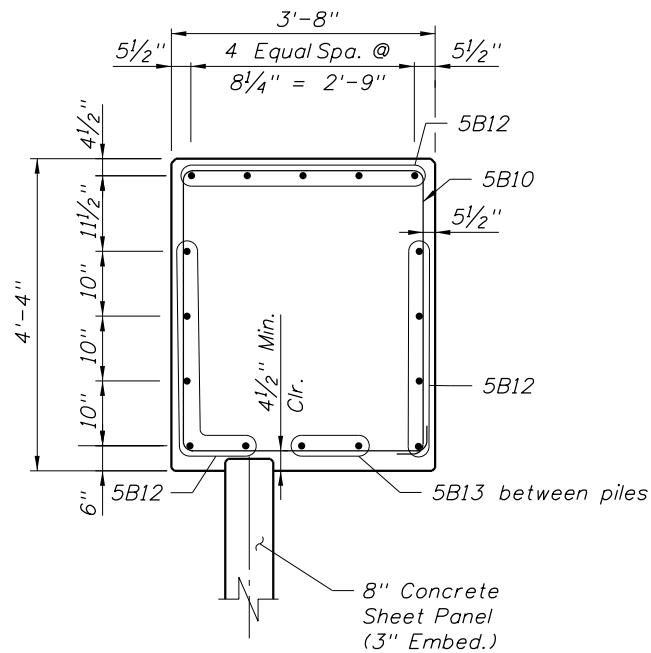
SECTION E-E

EB 1 South and EB 2 North Shown,
EB 1 North and EB 2 South similar

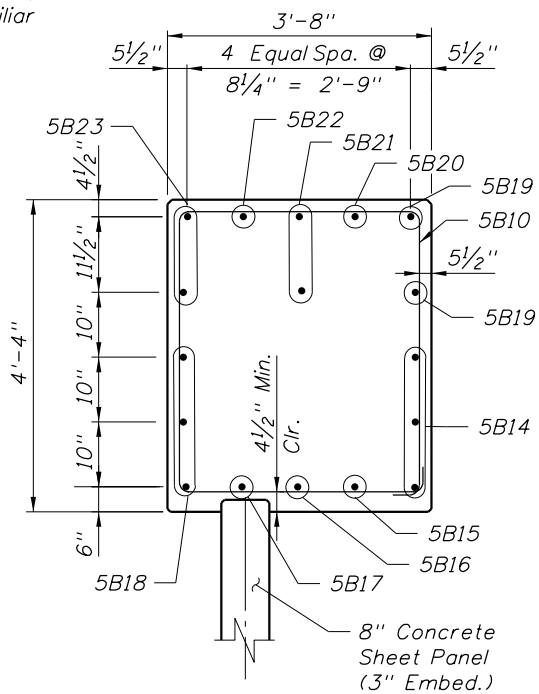


SECTION F-F

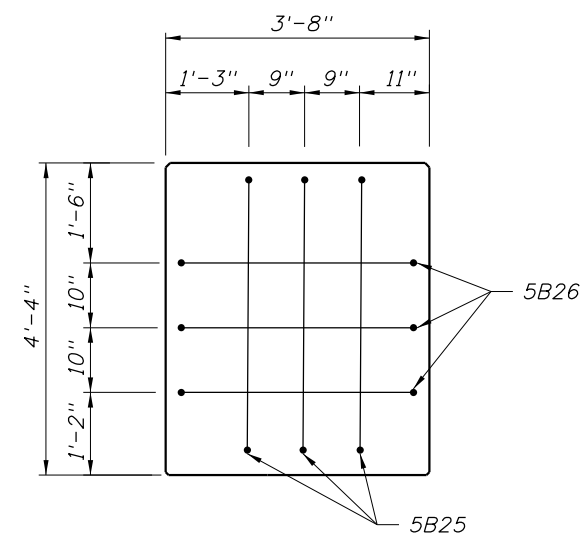
EB 1 South and EB 2 North Shown,
EB 1 North and EB 2 South similar



SECTION D-D



SECTION G-G

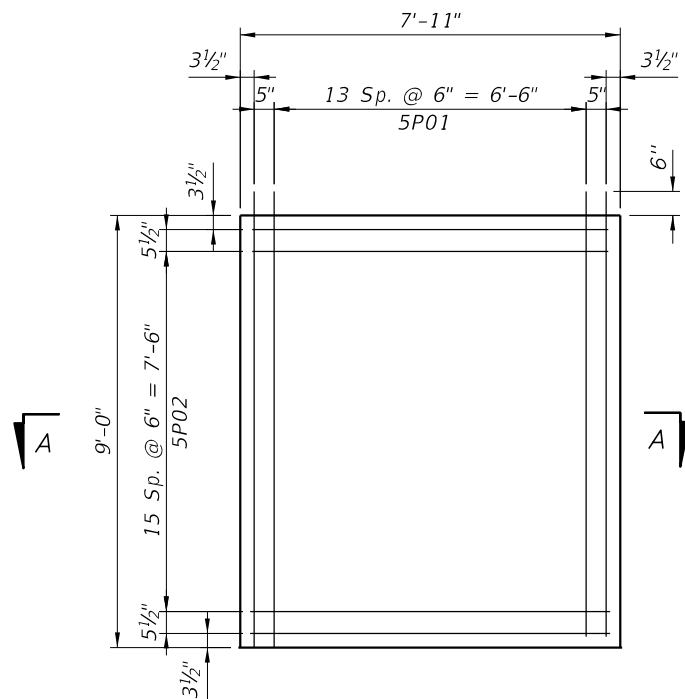


VIEW H-H

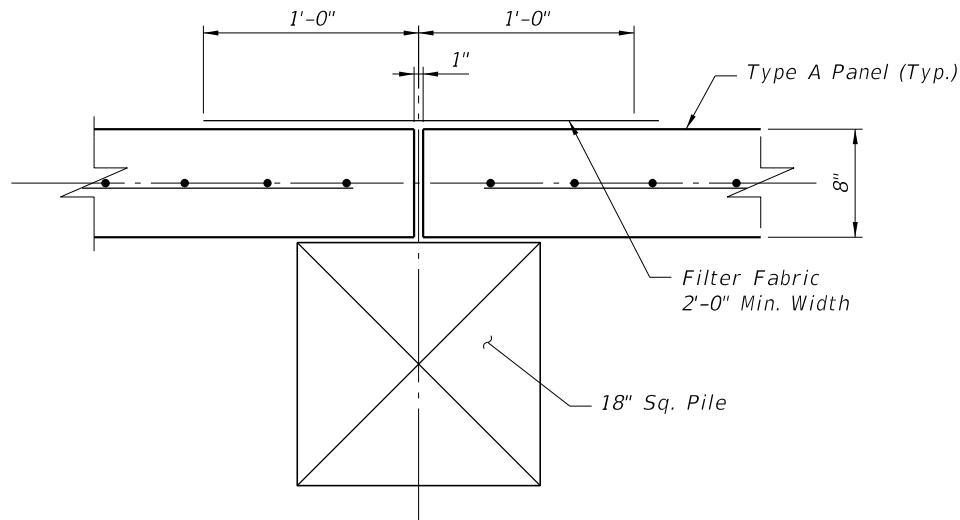
BRIDGE NO'S 880049 & 884038

REVISIONS						NAMES		DATES		Kimley»Horn Certificate of Authorization No. 696 Thomas W. Farnan, P.E. P.E. License No. 49143 1920 Wekiva Way, Suite 200 West Palm Beach, Florida 33411	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS ROADWAY IMPROVEMENTS TO C.R. 510 AND 66th AVENUE	END BENT DETAILS (2 OF 3) 61st & 65th STREET BRIDGES OVER 66th AVENUE CANAL	SHEET NO. B-13
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY	DATE						
						RJF	06/07						
						TWF	03/17						
						JJF	06/07						
						TWF	03/17						
						T.W. FARNAN							

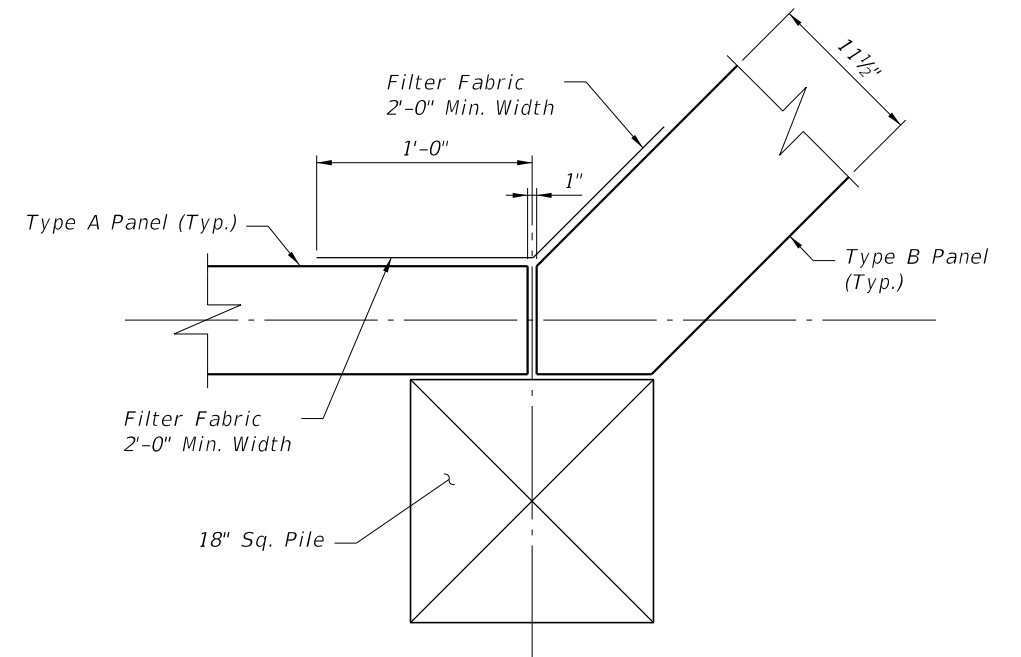
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



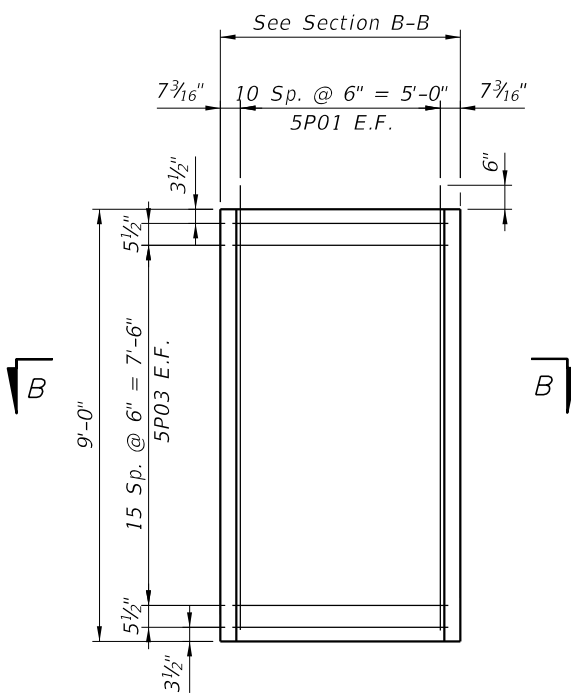
TYPE A SHEET PANEL DETAIL



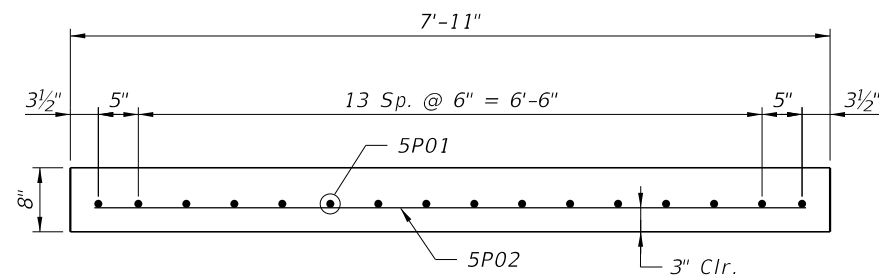
SHEET PANEL TANGENT JOINT DETAIL



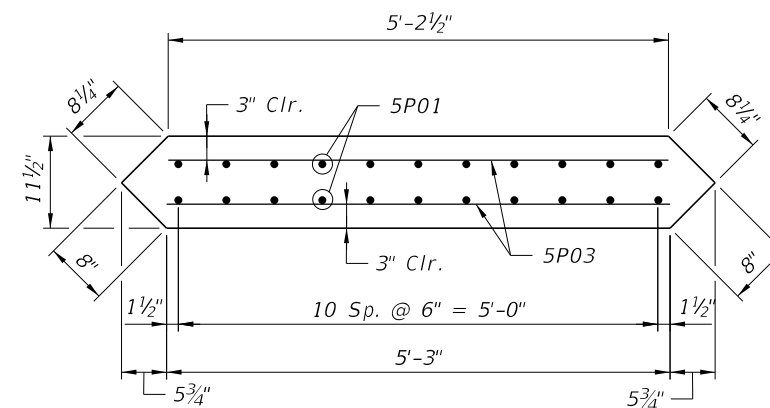
SHEET PANEL CORNER JOINT DETAIL



TYPE B SHEET PANEL DETAIL



SECTION A-A



SECTION B-B

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

	NAMES	DATES
DRAWN BY	RJF	06/07
CHECKED BY	TWF	03/17
DESIGNED BY	JJF	06/07
CHECKED BY	TWF	03/17
APPROVED BY	T.W. FARNAN	

Kimley»Horn
 Certificate of Authorization No. 696
 Thomas W. Farnan, P.E.
 P.E. License No. 49143
 1920 Wekiva Way, Suite 200
 West Palm Beach, Florida 33411

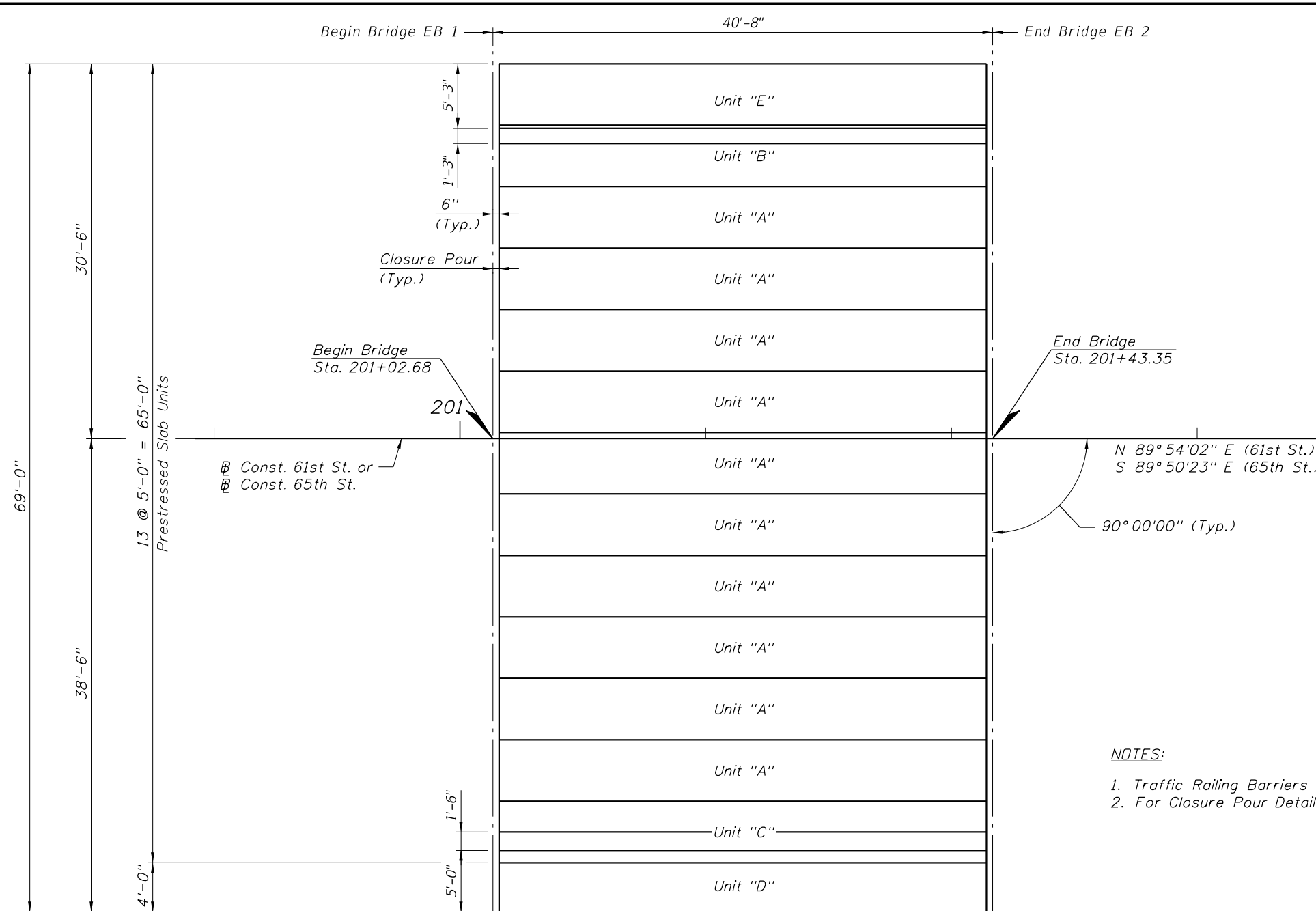
INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
ROADWAY IMPROVEMENTS
TO C.R. 510 AND 66th AVENUE

END BENT DETAILS (3 OF 3)
61st & 65th STREET BRIDGES
OVER 66th AVENUE CANAL

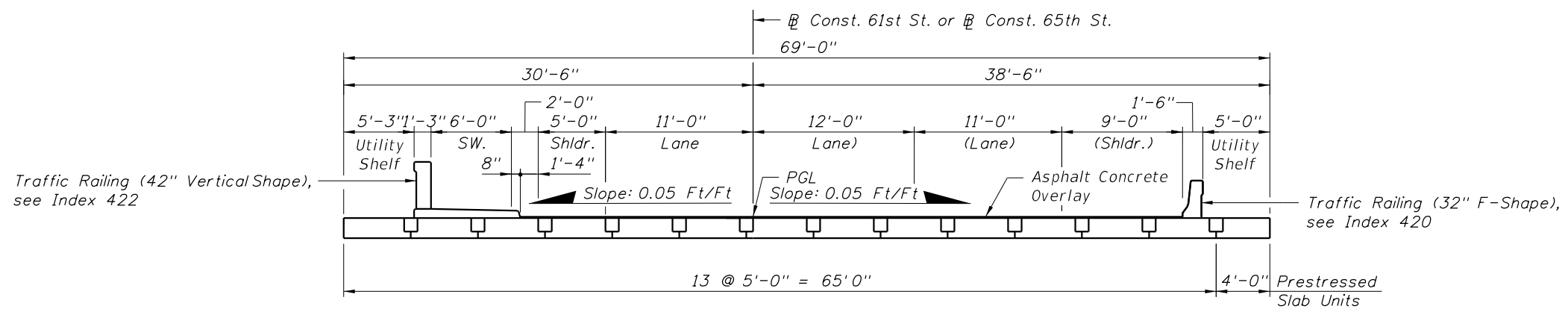
SHEET NO.
 B-14

BRIDGE NO'S 880049 & 884038

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PLAN



TYPICAL SECTION

NOTES:

1. Traffic Railing Barriers and Sidewalks not shown.
2. For Closure Pour Details, see "Superstructure Details."

BRIDGE NO'S 880049 & 884038

REVISIONS		DATE	BY	DESCRIPTION

DATE	BY	DESCRIPTION

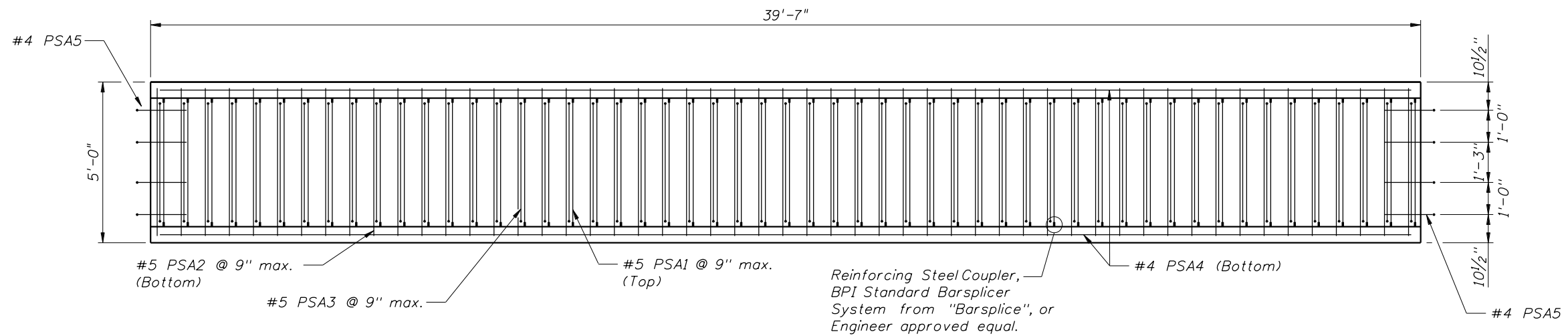
Kimley»Horn
 Certificate of Authorization No. 696
 Thomas W. Farnan, P.E.
 P.E. License No. 49143
 1920 Wekiva Way, Suite 200
 West Palm Beach, Florida 33411

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
ROADWAY IMPROVEMENTS
TO C.R. 510 AND 66th AVENUE

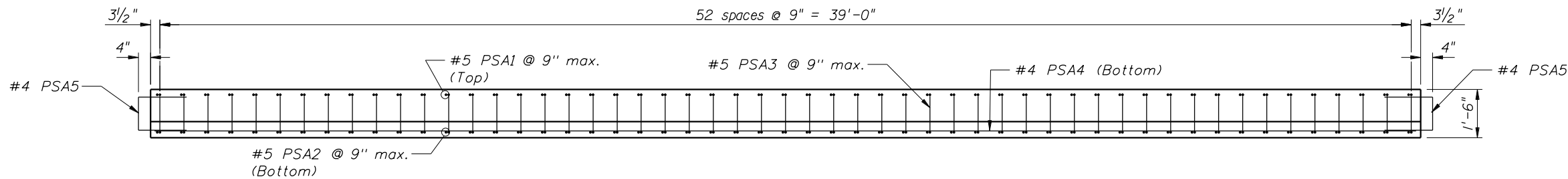
FRAMING PLAN & TYPICAL SECTION
61st & 65th STREET BRIDGES
OVER 66th AVENUE CANAL

SHEET NO.
 B-15

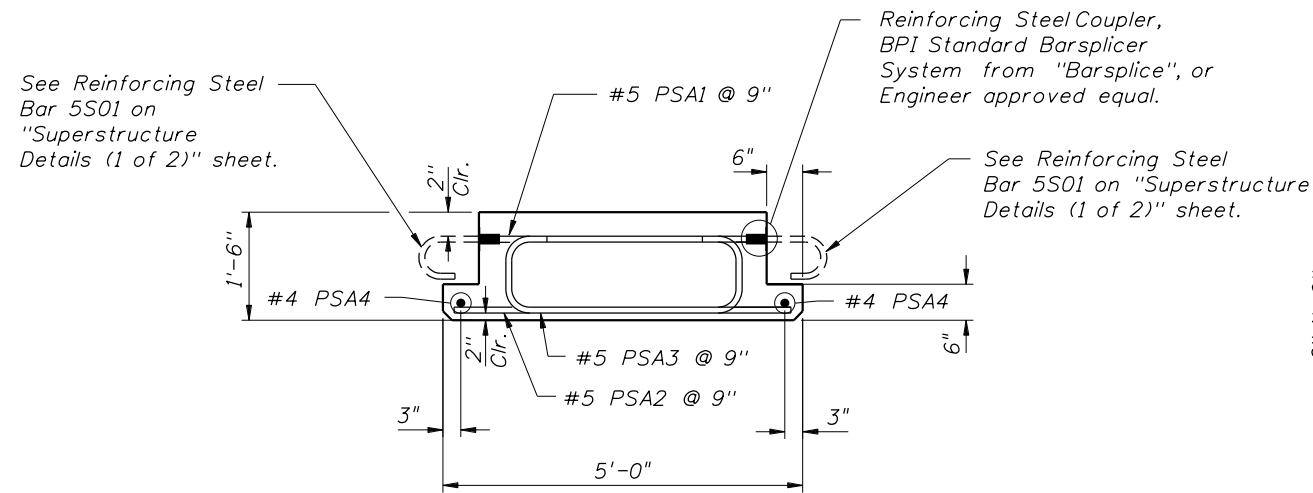
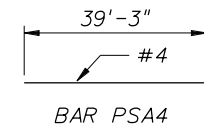
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



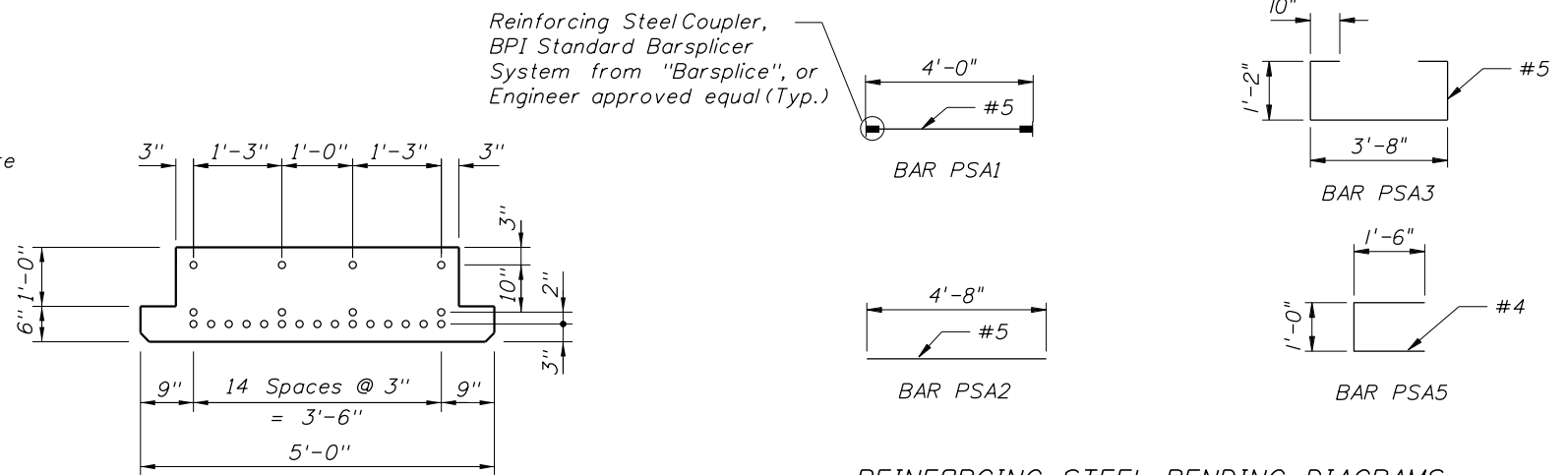
PLAN - SLAB UNIT "A"



ELEVATION - SLAB UNIT "A"



SECTION - SLAB UNIT "A"
NOTE: Prestress Strands not shown



REINFORCING STEEL BENDING DIAGRAMS

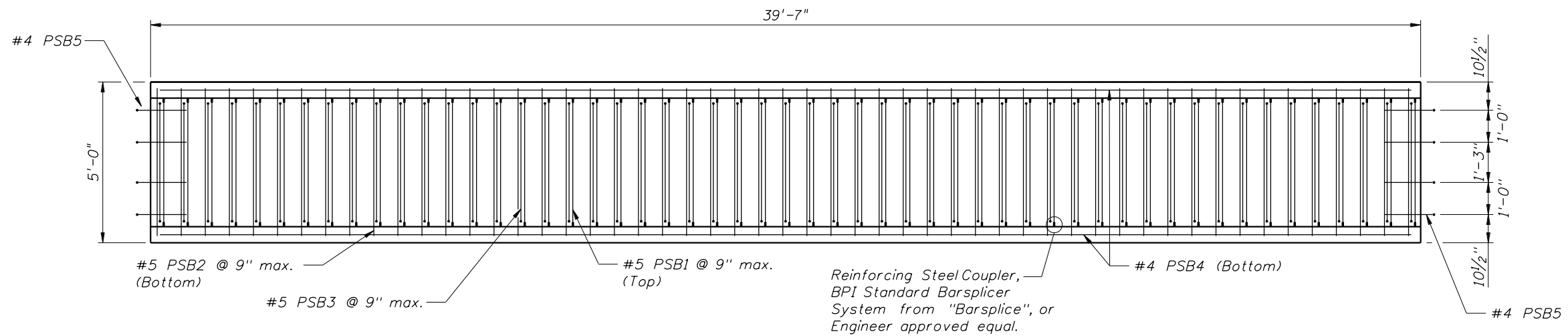
PRESTRESS STRAND PATTERN

Strand Description: Use 0.60" Diameter, Grade 270.
Low Relaxation Strands stressed at 43.94 kips each,
Area per strand equals 0.217 sq. in. (Total 23 Strands)

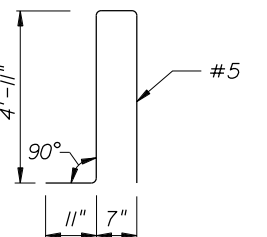
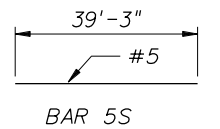
BRIDGE NO'S 880049 & 884038

REVISIONS						NAMES		DATES		Kimley»Horn Certificate of Authorization No. 696 Thomas W. Farnan, P.E. P.E. License No. 49143 1920 Wekiva Way, Suite 200 West Palm Beach, Florida 33411	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS ROADWAY IMPROVEMENTS TO C.R. 510 AND 66th AVENUE	PRESTRESSED TYPE A SLAB UNIT 61st & 65th STREET BRIDGES OVER 66th AVENUE CANAL	SHEET NO. B-16
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY	DATE						
						RJF	06/07						
						TWF	03/17						
						JJF	06/07						
						TWF	03/17						
						T.W. FARNAN							

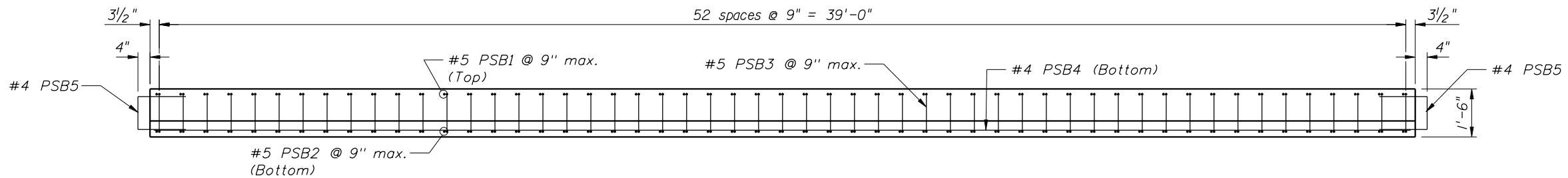
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



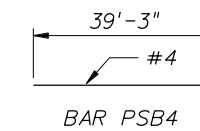
PLAN - SLAB UNIT "B"



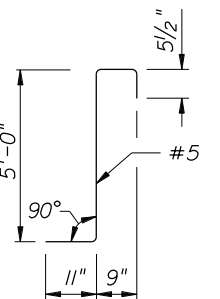
BAR 5T



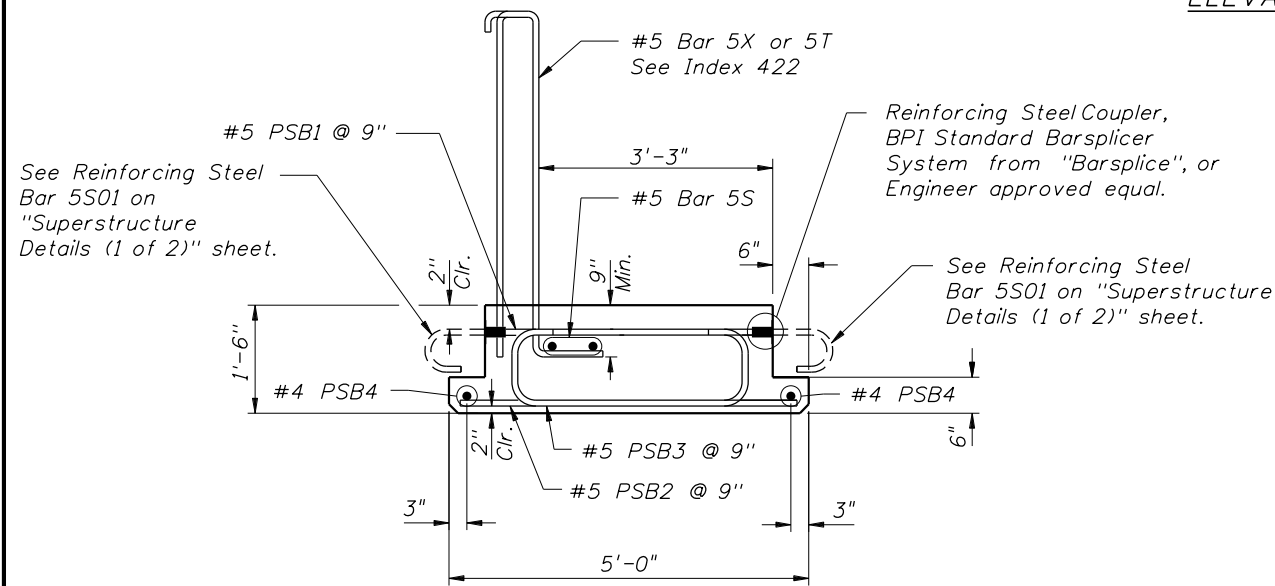
ELEVATION - SLAB UNIT "B"



BAR PSB4

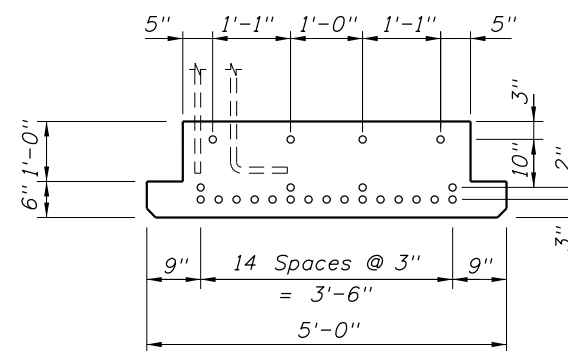


BAR 5X



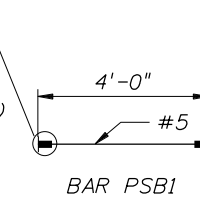
SECTION - SLAB UNIT "B"

NOTE: Prestress Strands not shown

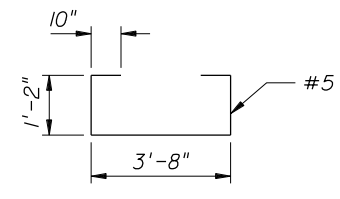


PRESTRESS STRAND PATTERN

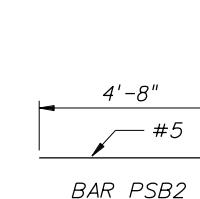
Strand Description: Use 0.60" Diameter, Grade 270.
Low Relaxation Strands stressed at 43.94 kips each,
Area per strand equals 0.217 sq. in. (Total 23 Strands)



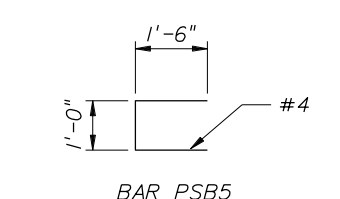
BAR PSB1



BAR PSB3



BAR PSB2



BAR PSB5

REINFORCING STEEL BENDING DIAGRAMS

BRIDGE NO'S 880049 & 884038

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

NAMES	DATES
DRAWN BY: RJF	06/07
CHECKED BY: TWF	03/17
DESIGNED BY: JJF	06/07
CHECKED BY: TWF	03/17
APPROVED BY: T.W. FARNAN	

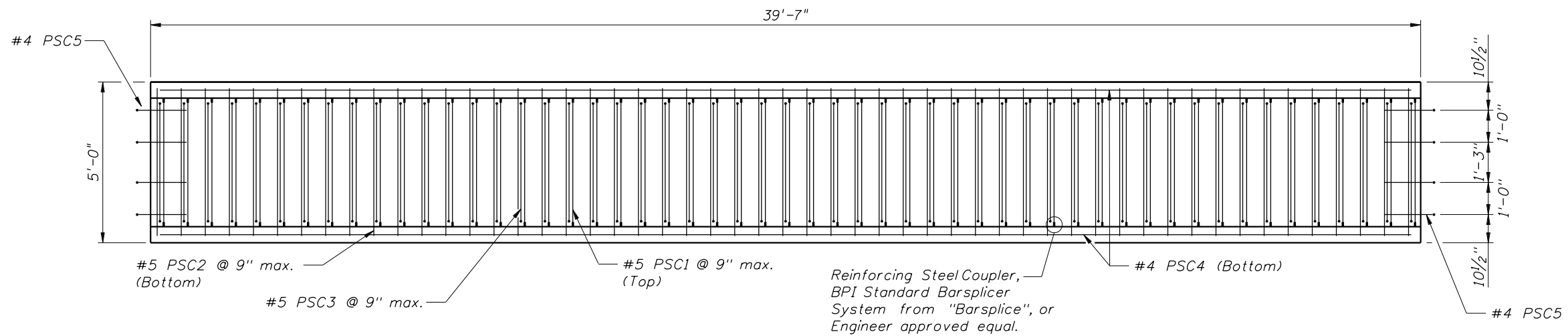
Kimley»Horn
Certificate of Authorization No. 696
Thomas W. Farnan, P.E.
P.E. License No. 49143
1920 Wekiva Way, Suite 200
West Palm Beach, Florida 33411

**INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS**
**ROADWAY IMPROVEMENTS
TO C.R. 510 AND 66th AVENUE**

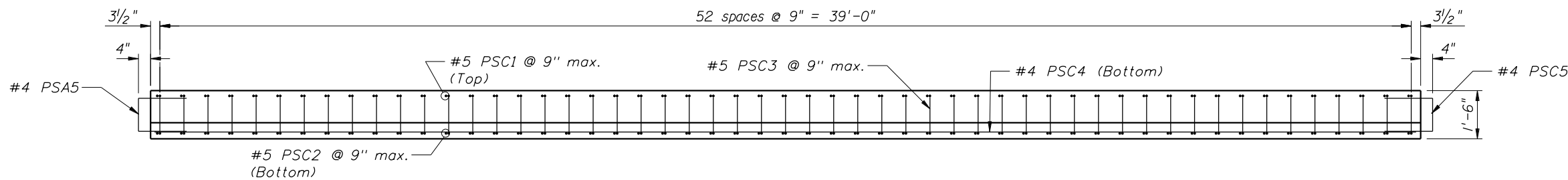
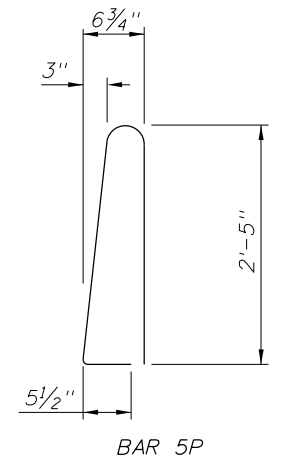
PRESTRESSED TYPE B SLAB UNITS
**61st & 65th STREET BRIDGES
OVER 66th AVENUE CANAL**

SHEET NO.
B-17

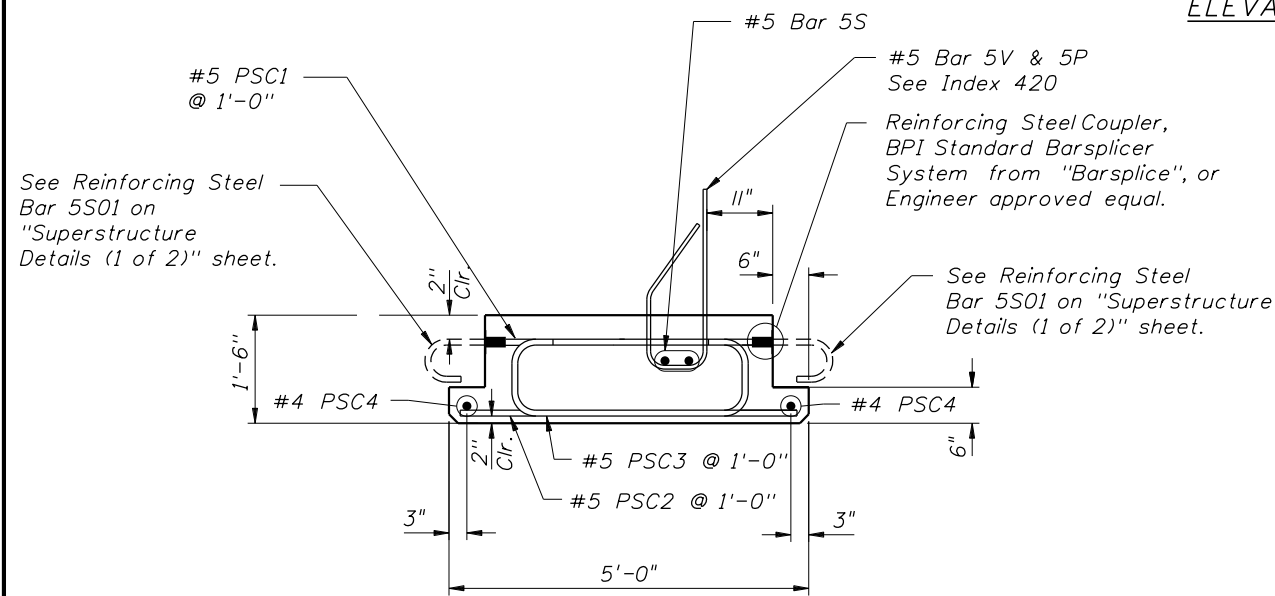
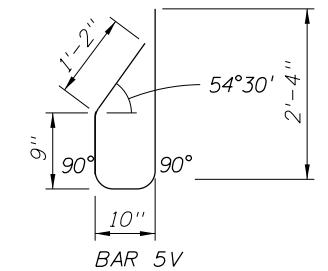
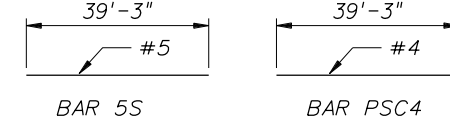
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



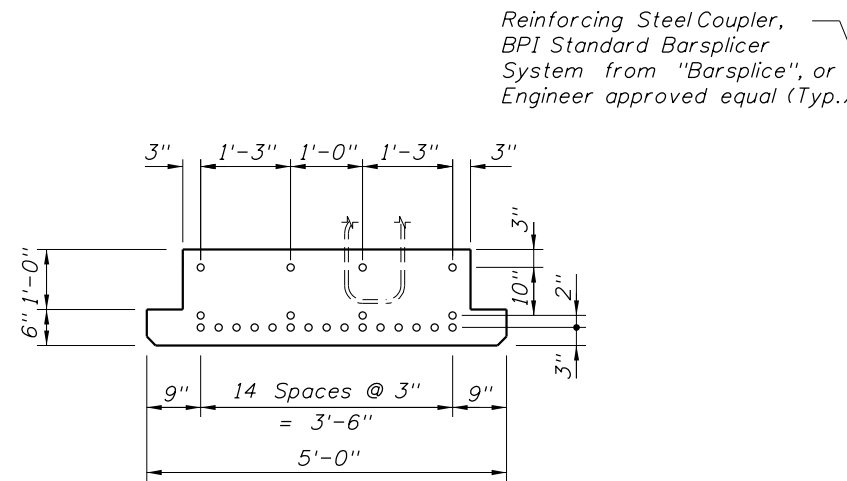
PLAN - SLAB UNIT "C"



ELEVATION - SLAB UNIT "C"



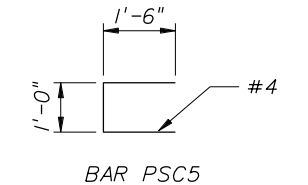
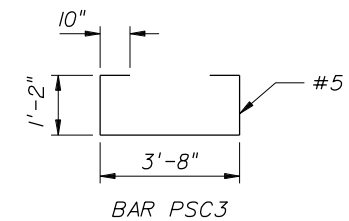
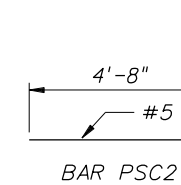
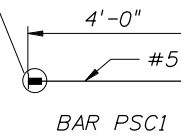
SECTION - SLAB UNIT "C"
NOTE: Prestress Strands not shown



PRESTRESS STRAND PATTERN

Strand Description: Use 0.60" Diameter, Grade 270.
Low Relaxation Strands stressed at 43.94 kips each,
Area per strand equals 0.217 sq. in. (Total 23 Strands)

Reinforcing Steel Coupler,
BPI Standard Barsplicer
System from "Barsplice", or
Engineer approved equal (Typ.)



REINFORCING STEEL BENDING DIAGRAMS

BRIDGE NO'S 880049 & 884038

DATE		BY		DESCRIPTION	

NAMES	DATES
DRAWN BY RJF	06/07
CHECKED BY TWF	03/17
DESIGNED BY JJF	06/07
CHECKED BY TWF	03/17
APPROVED BY T.W. FARNAN	

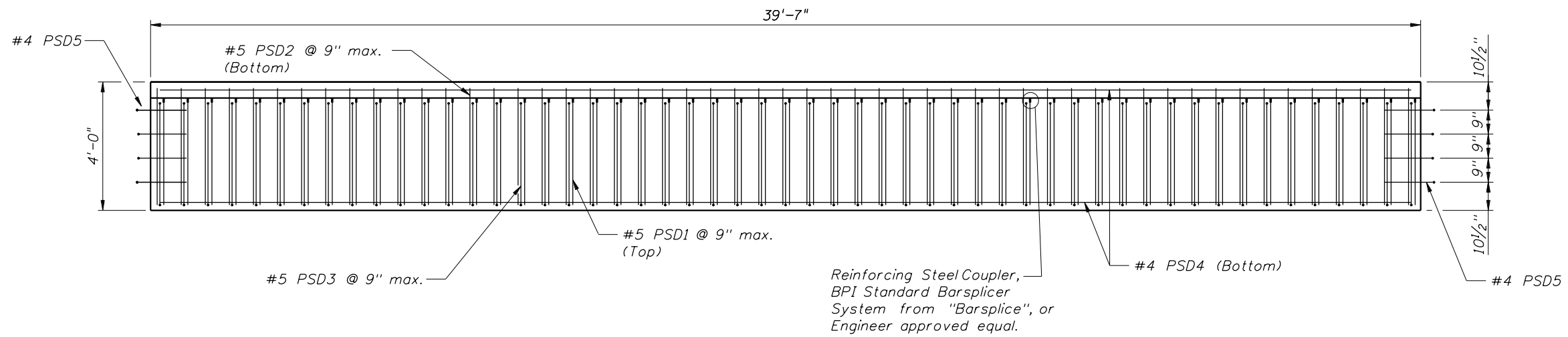
Kimley»Horn
Certificate of Authorization No. 696
Thomas W. Farnan, P.E.
P.E. License No. 49143
1920 Wekiva Way, Suite 200
West Palm Beach, Florida 33411

**INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS**
**ROADWAY IMPROVEMENTS
TO C.R. 510 AND 66th AVENUE**

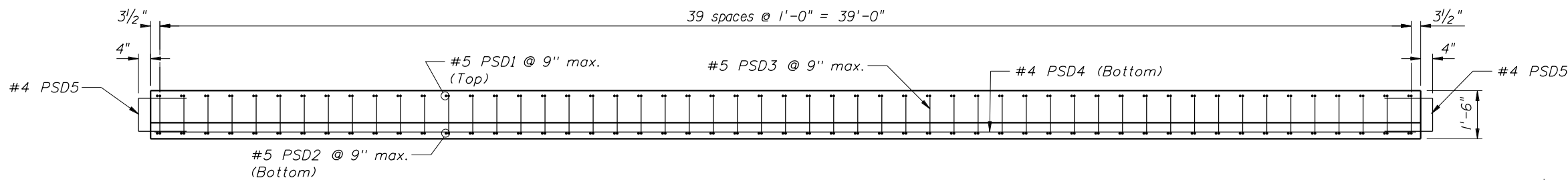
PRESTRESSED TYPE C SLAB UNITS
**61st & 65th STREET BRIDGES
OVER 66th AVENUE CANAL**

SHEET NO.
B-18

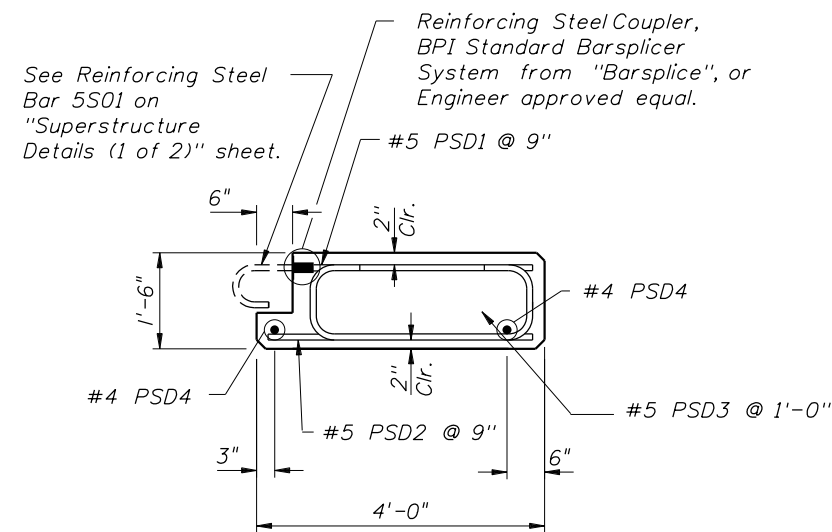
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PLAN - SLAB UNIT "D"

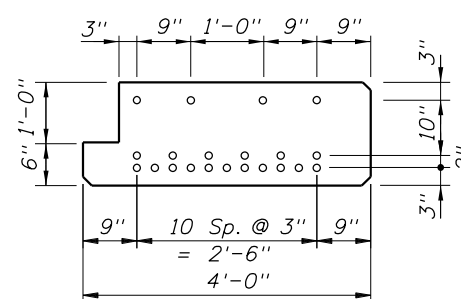


ELEVATION - SLAB UNIT "D"



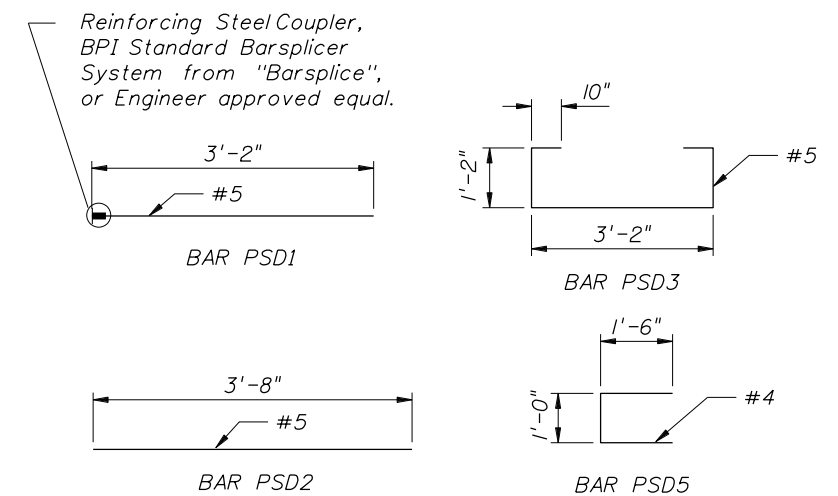
SECTION - SLAB UNIT "D"

NOTE: Prestress Strands not shown

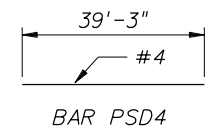


PRESTRESS STRAND PATTERN

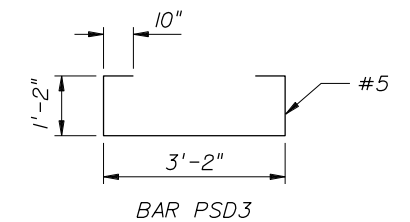
Strand Description: Use 0.60" Diameter, Grade 270.
Low Relaxation Strands stressed at 43.94 kips each,
Area per strand equals 0.217 sq. in. (Total 21 Strands)



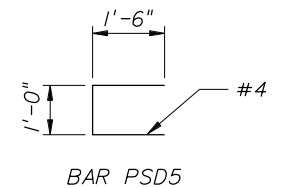
REINFORCING STEEL BENDING DIAGRAMS



BAR PSD4



BAR PSD3

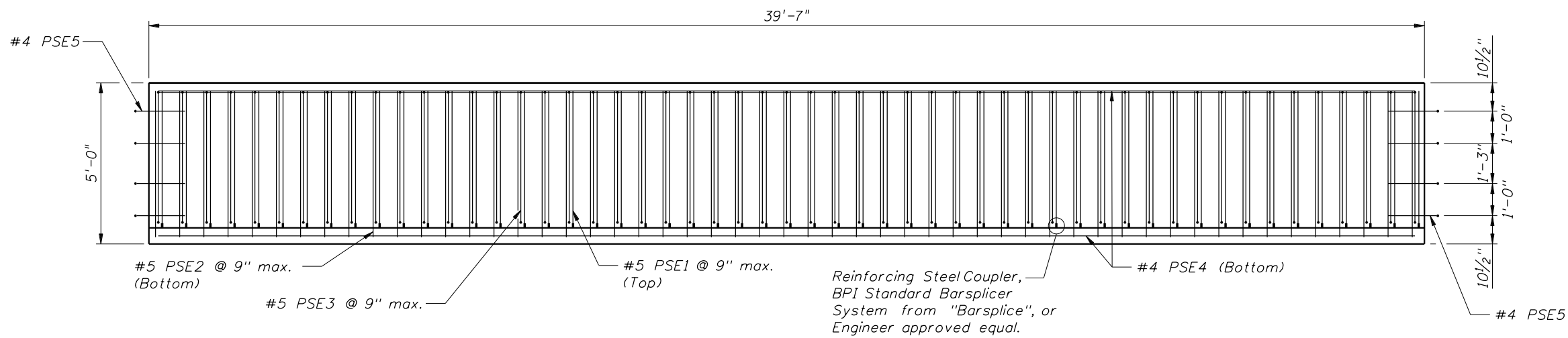


BAR PSD5

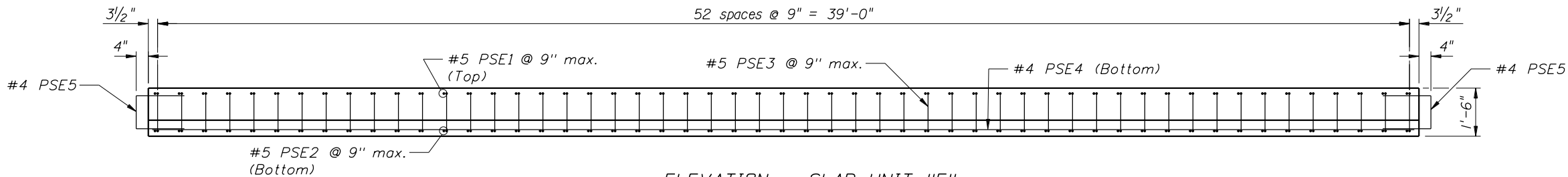
BRIDGE NO'S 880049 & 884038

REVISIONS						NAMES		DATES		Kimley»Horn Certificate of Authorization No. 696 Thomas W. Farnan, P.E. P.E. License No. 49143 1920 Wekiva Way, Suite 200 West Palm Beach, Florida 33411	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS		PRESTRESSED TYPE D SLAB UNITS		SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY	RJF	06/07			ROADWAY IMPROVEMENTS		61st & 65th STREET BRIDGES		B-19
						CHECKED BY	TWF	03/17			TO C.R. 510 AND 66th AVENUE		OVER 66th AVENUE CANAL		
						DESIGNED BY	JJF	06/07							
						CHECKED BY	TWF	03/17							
						APPROVED BY	T.W. FARNAN								

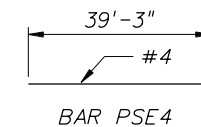
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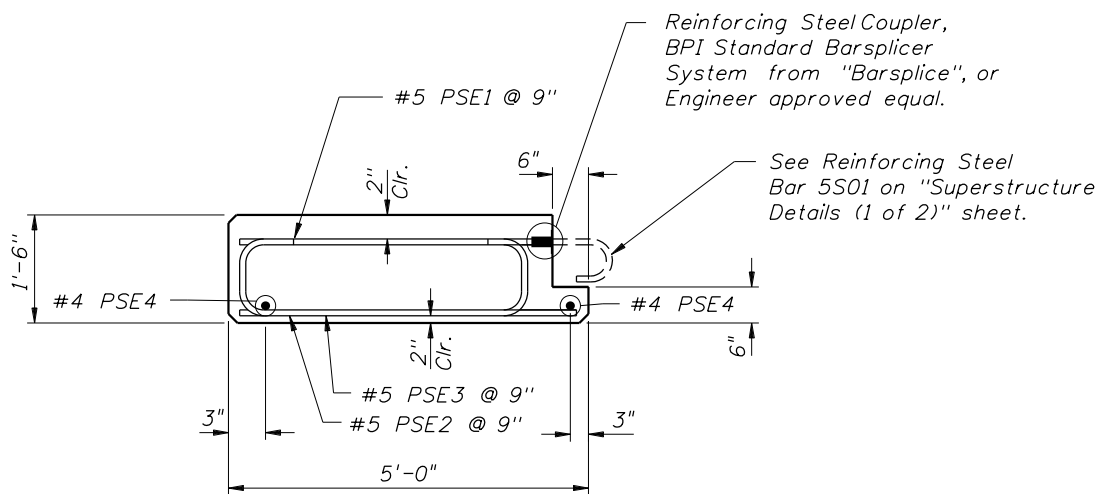
PLAN - SLAB UNIT "E"



ELEVATION - SLAB UNIT "E"

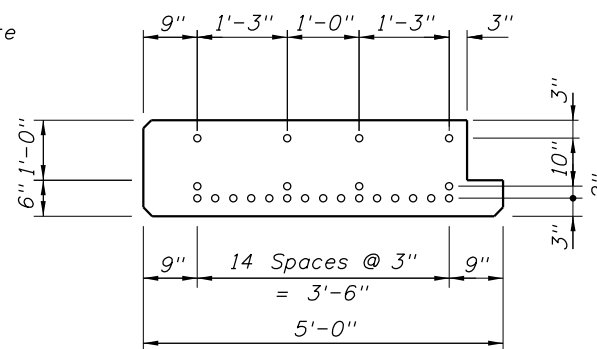


BAR PSE4



SECTION - SLAB UNIT "E"

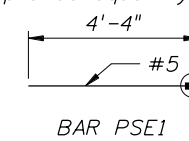
NOTE: Prestress Strands not shown



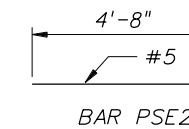
PRESTRESS STRAND PATTERN

Strand Description: Use 0.60" Diameter, Grade 270.
Low Relaxation Strands stressed at 43.94 kips each,
Area per strand equals 0.217 sq. in. (Total 23 Strands)

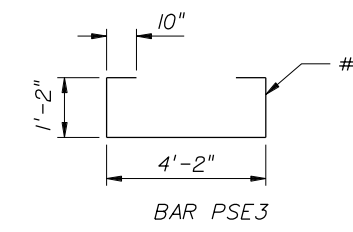
Reinforcing Steel Coupler,
BPI Standard Barsplicer
System from "Barsplice", or
Engineer approved equal (Typ.)



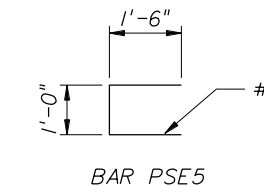
BAR PSE1



BAR PSE2



BAR PSE3



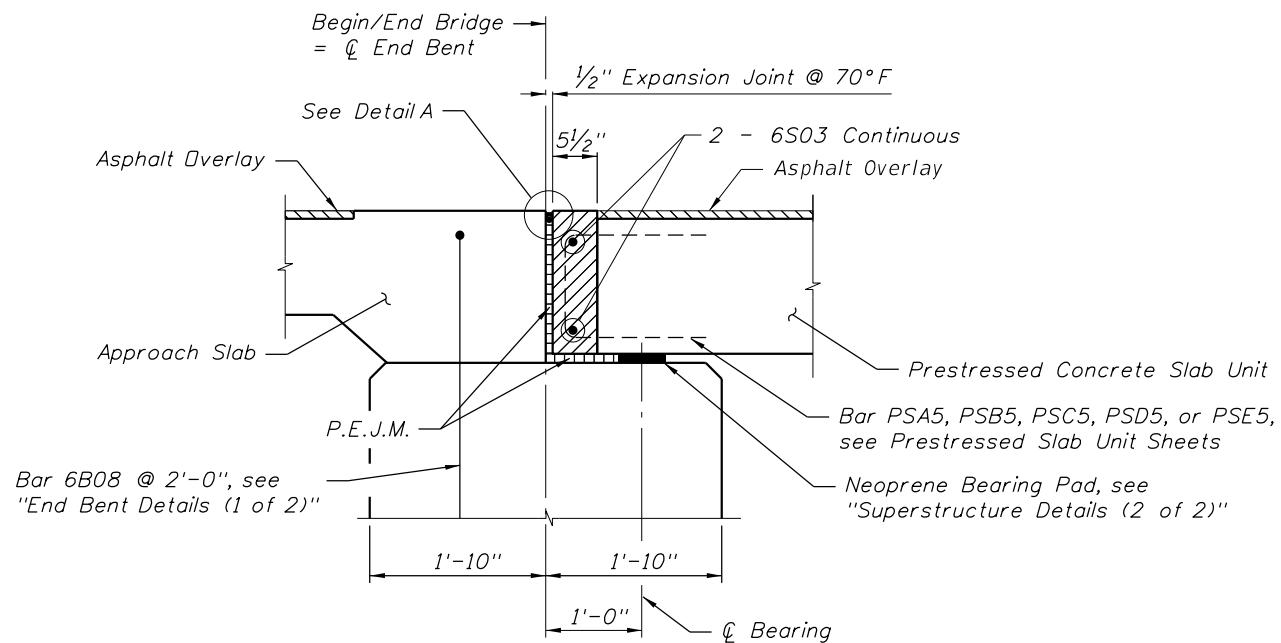
BAR PSE5

REINFORCING STEEL BENDING DIAGRAM

BRIDGE NO'S 880049 & 884038

REVISIONS						NAMES		DATES		Kimley»Horn Certificate of Authorization No. 696 Thomas W. Farnan, P.E. P.E. License No. 49143 1920 Wekiva Way, Suite 200 West Palm Beach, Florida 33411	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS ROADWAY IMPROVEMENTS TO C.R. 510 AND 66th AVENUE	PRESTRESSED TYPE E SLAB UNITS 61st & 65th STREET BRIDGES OVER 66th AVENUE CANAL	SHEET NO. B-20
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY	DATE						
						RJF	06/07						
						TWF	03/17						
						JJF	06/07						
						TWF	03/17						
						T.W. FARNAN							

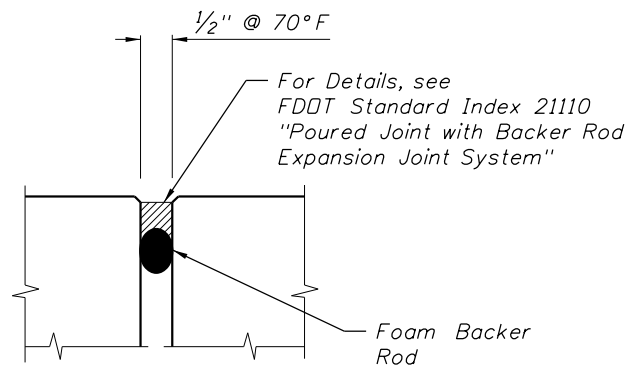
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END BENT DETAIL

NOTE:

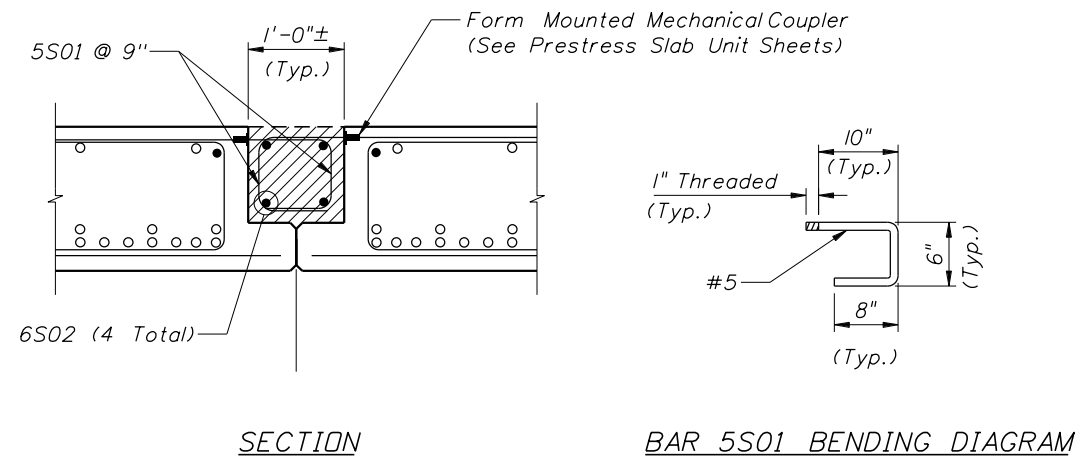
All costs of Expansion Joint shall be included in price bid for Expansion Joint, Poured with Backer Rod.



DETAIL A

NOTE:

Construct per FDOT Standard Index No. 21110



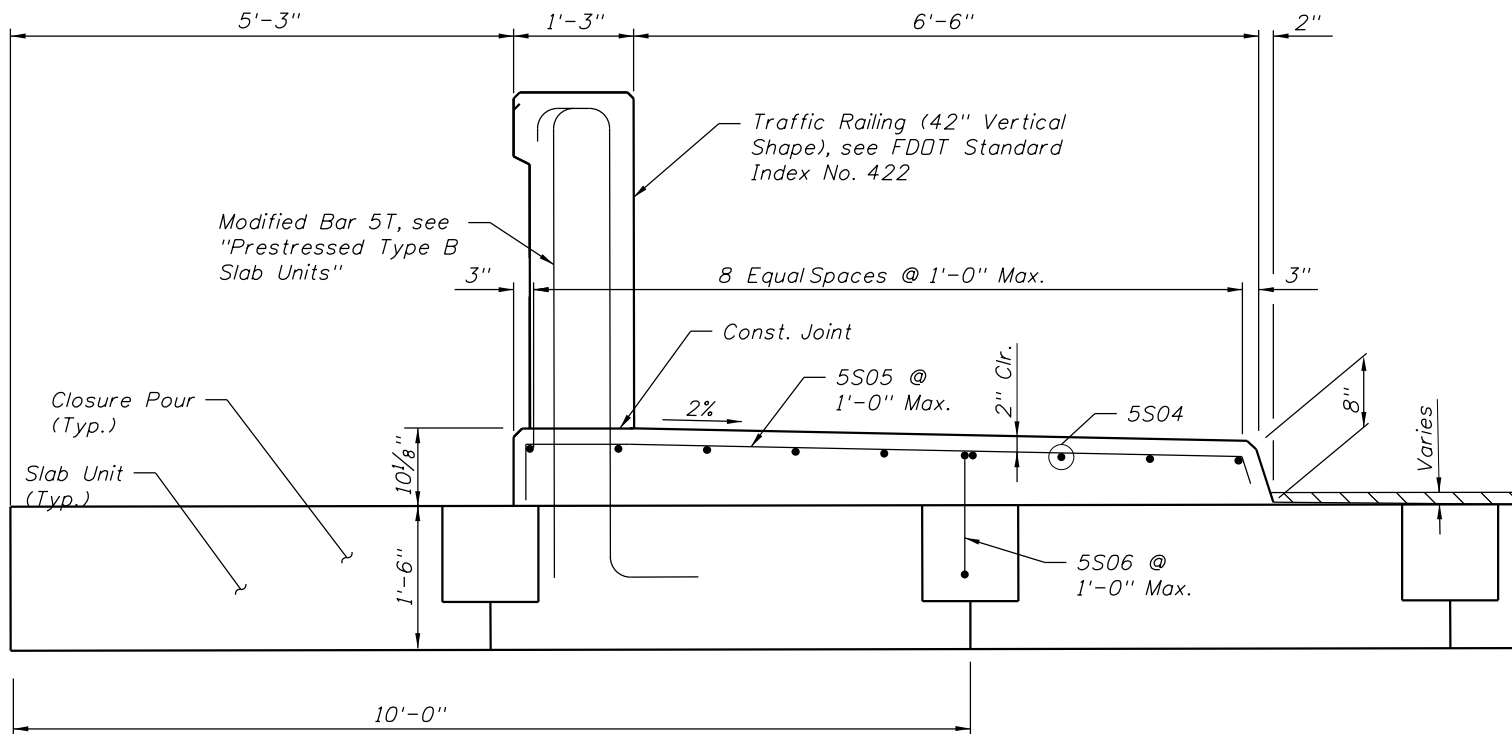
SECTION

BAR 5S01 BENDING DIAGRAM

PRECAST PRESTRESSED SLAB CLOSURE POUR DETAILS

NOTES:

1. For Closure Pours, use Class V Concrete, $f'c = 5,500$ psi.
2. Reinforcing Bar "5S01" shall be installed prior to placing adjacent slab units.

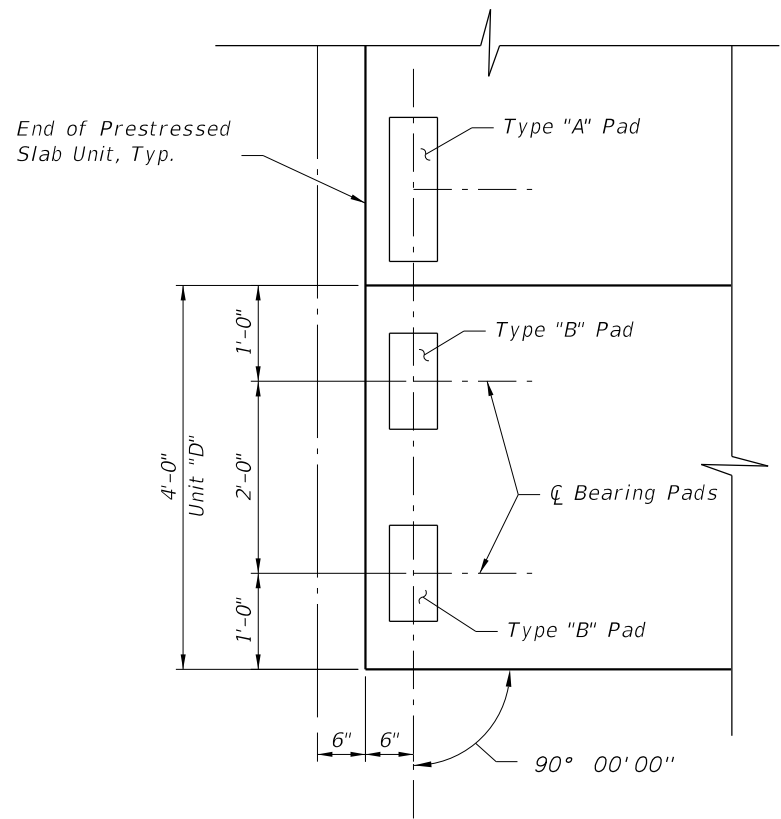
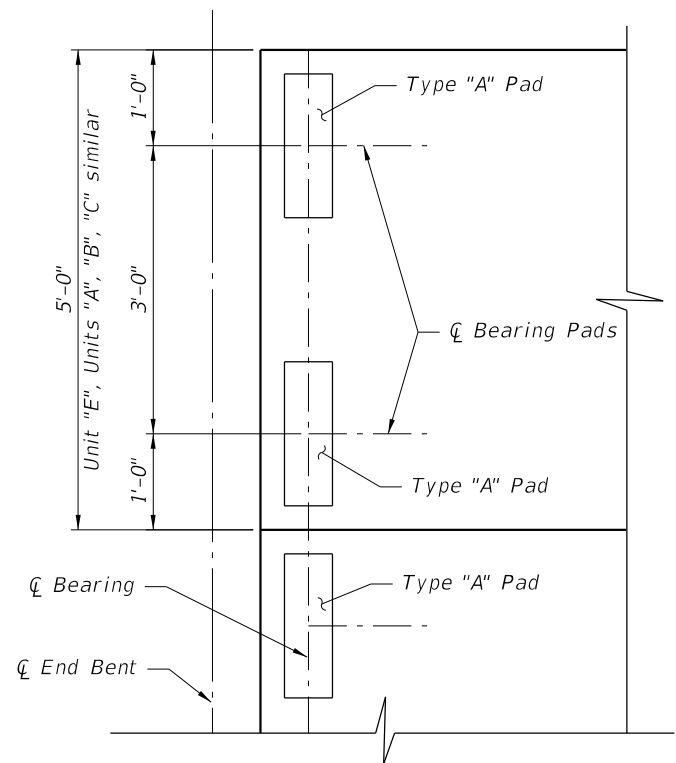


SIDEWALK DETAIL

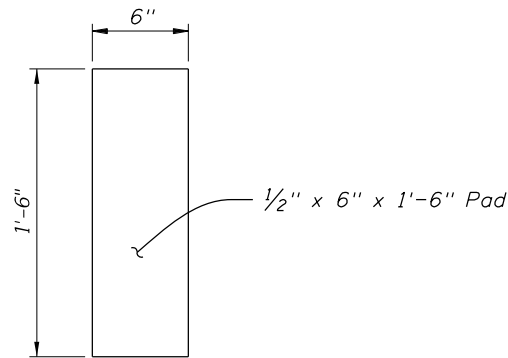
BRIDGE NO'S 880049 & 884038

REVISIONS						NAMES		DATES		Kimley»Horn Certificate of Authorization No. 696 Thomas W. Farnan, P.E. P.E. License No. 49143 1920 Wekiva Way, Suite 200 West Palm Beach, Florida 33411	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS		SUPERSTRUCTURE DETAILS (1 OF 2)		SHEET NO.	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY	RJF	06/07	DESIGNED BY		JJF	06/07	ROADWAY IMPROVEMENTS TO C.R. 510 AND 66th AVENUE		61st & 65th STREET BRIDGES OVER 66th AVENUE CANAL	B-21
						CHECKED BY	TWF	03/17	CHECKED BY		TWF	03/17				
						APPROVED BY	T.W. FARNAN									

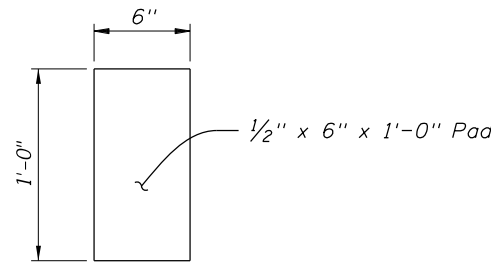
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BEARING PAD LAYOUT - PARTIAL PLAN
Begin Bridge End shown End Bridge End Similar

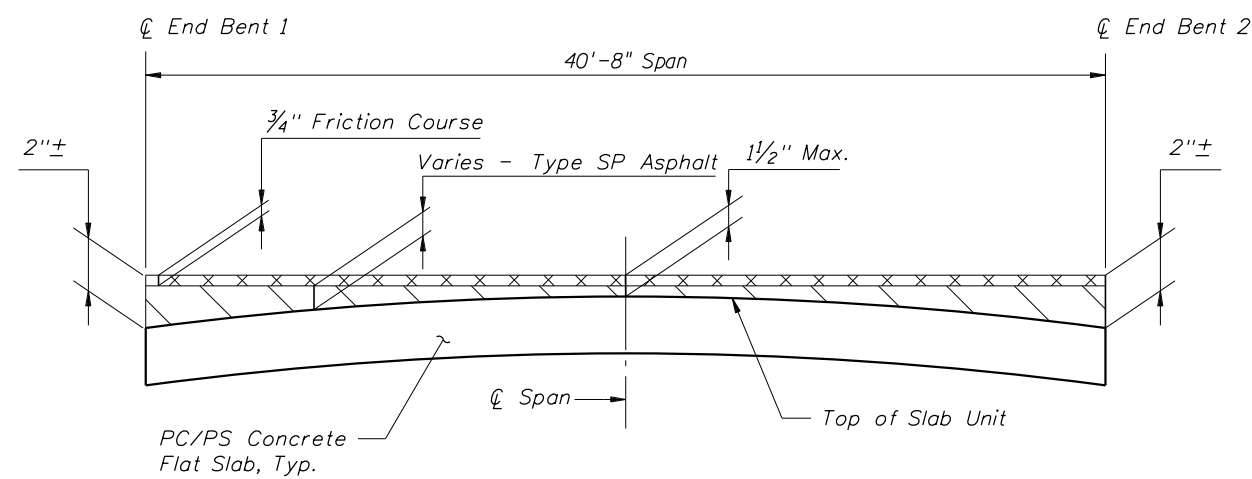


PLAN - TYPE "A" PAD
(No. Req'd = 52)



PLAN - TYPE "B" PAD
(No. Req'd = 4)

NOTE: Neoprene Bearing Pads shall have a Grade 50 durometer hardness.



ASPHALT OVERBUILD
See Roadway Plans for Asphalt Concrete Quantities

BRIDGE NO'S 880049 & 884038

REVISIONS						NAMES		DATES	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				
						DRAWN BY	RJF	06/07	
						CHECKED BY	TWF	03/17	
						DESIGNED BY	JJF	06/07	
						CHECKED BY	TWF	03/17	
						APPROVED BY	T.W. FARNAN		

Kimley»Horn

Certificate of Authorization No. 696
Thomas W. Farnan, P.E.
P.E. License No. 49143
1920 Wekiva Way, Suite 200
West Palm Beach, Florida 33411

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS

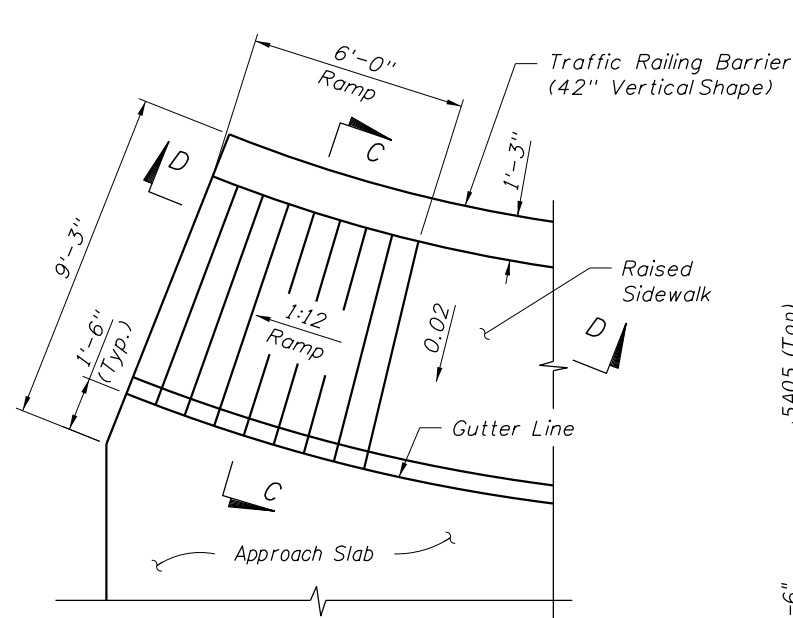
ROADWAY IMPROVEMENTS
TO C.R. 510 AND 66th AVENUE

SUPERSTRUCTURE DETAILS (2 OF 2)

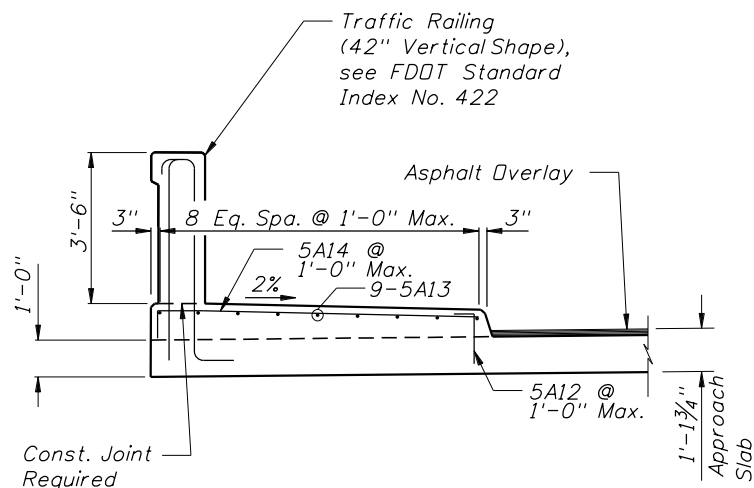
61st & 65th STREET BRIDGES
OVER 66th AVENUE CANAL

SHEET NO.
B-22

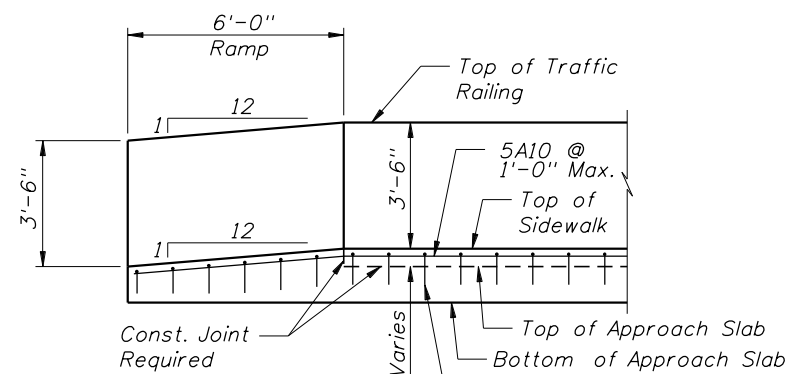
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DETAIL A

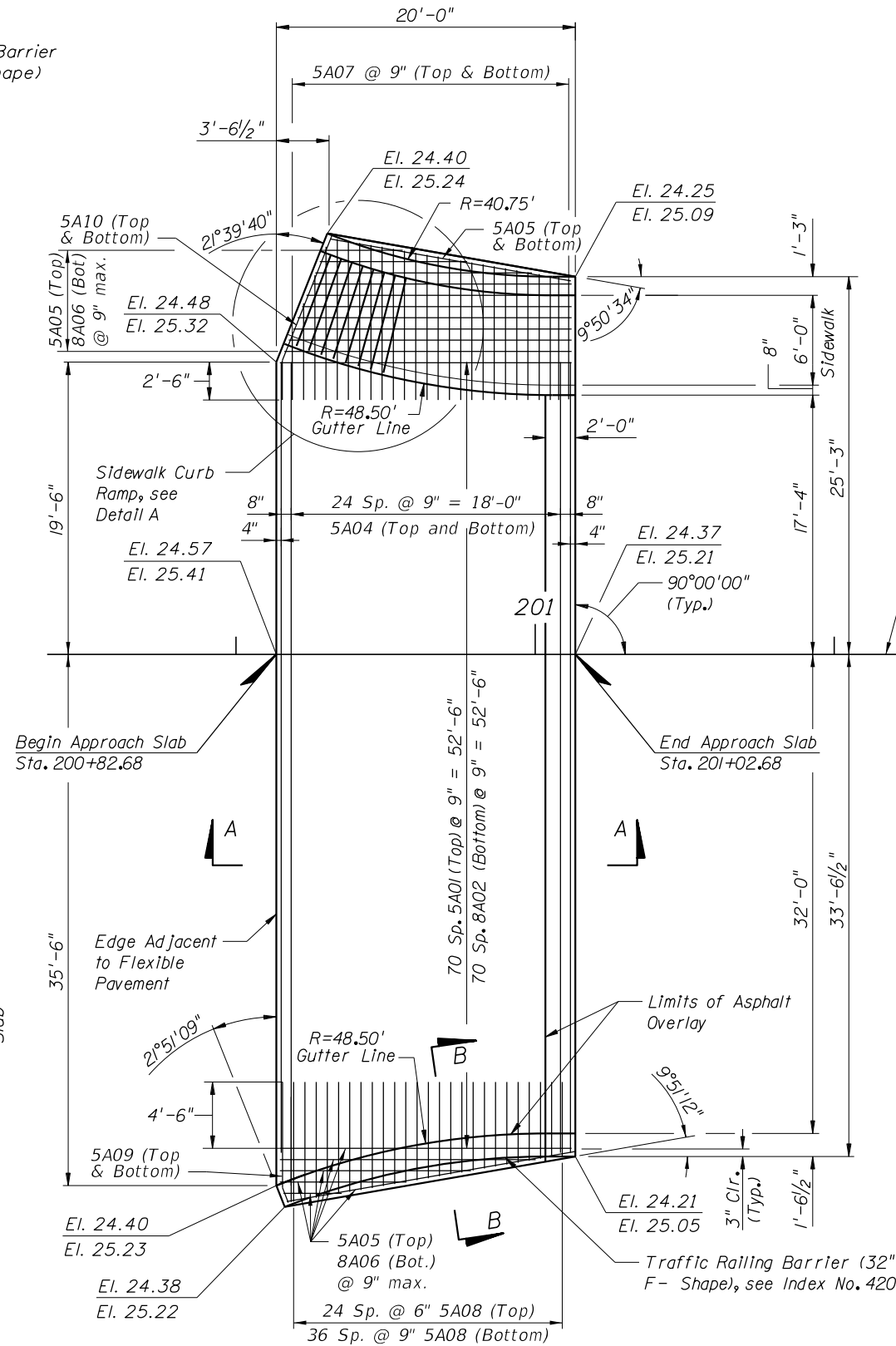


SECTION C-C



VIEW D-D

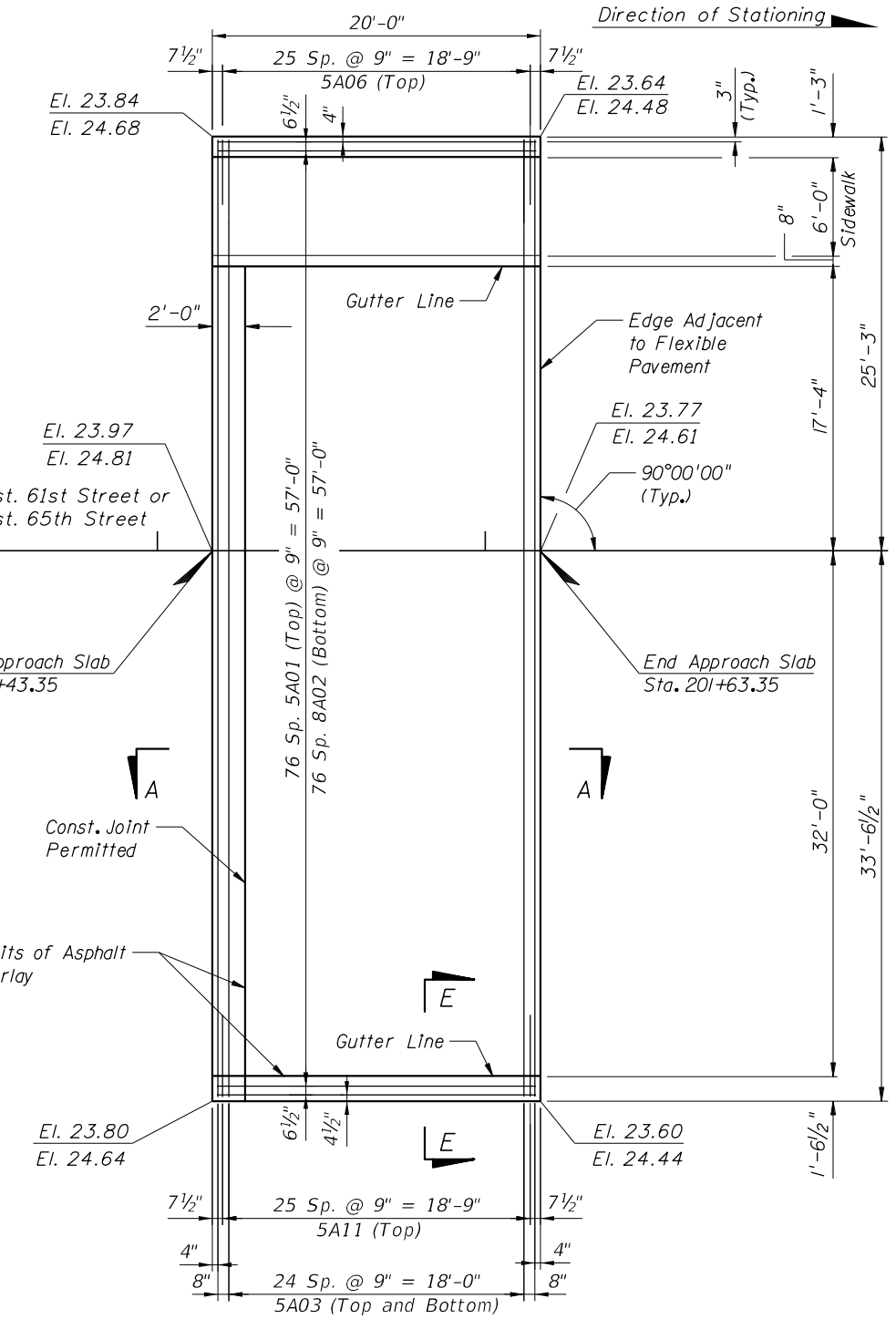
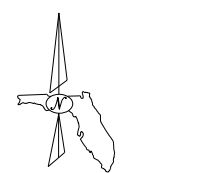
ELEVATION KEY:
 El. XX.XX = 61st Street
 El. XX.XX = 65th Street



PLAN
End Bent No. 1

Notes:

1. Work this sheet with FDOT Standard Index No. 20900.
2. Elevations are to top of asphalt overlay and do not include 3/4" Sidewalk Blockout.



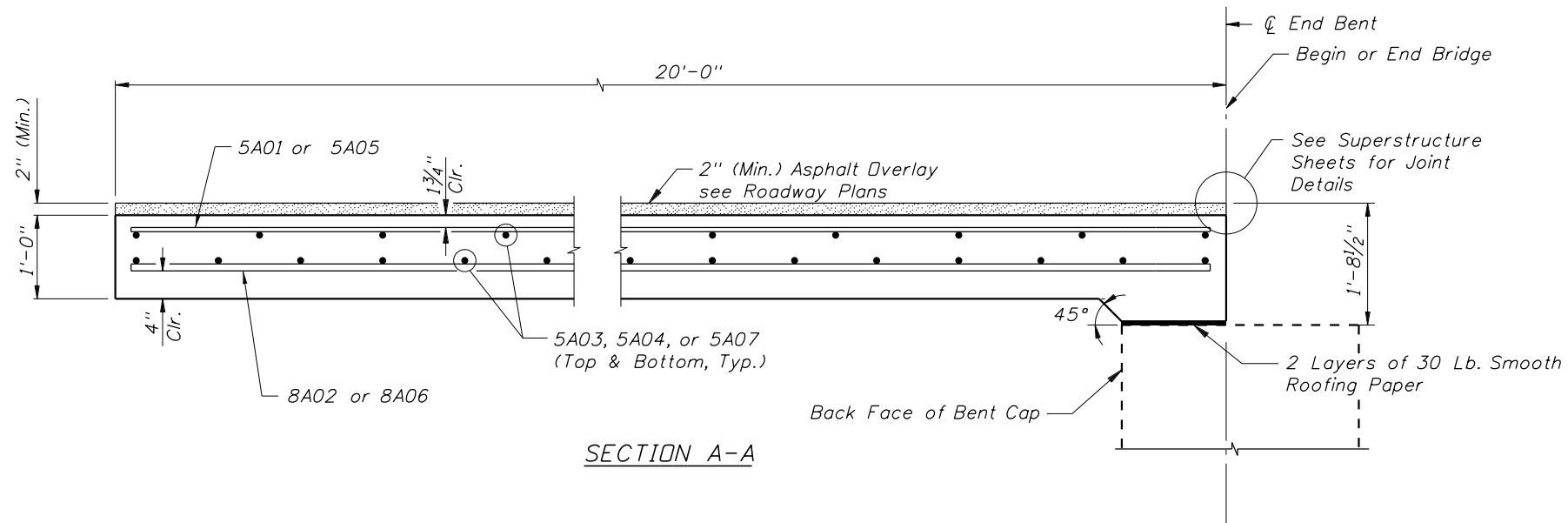
PLAN
End Bent No. 2

* NOTE: Bars 5A06 are required as shown when either the 32" F-Shape or 42" Vertical Traffic Railing Barriers are used at the edge of the Approach Slab.

BRIDGE NO'S 880049 & 884038

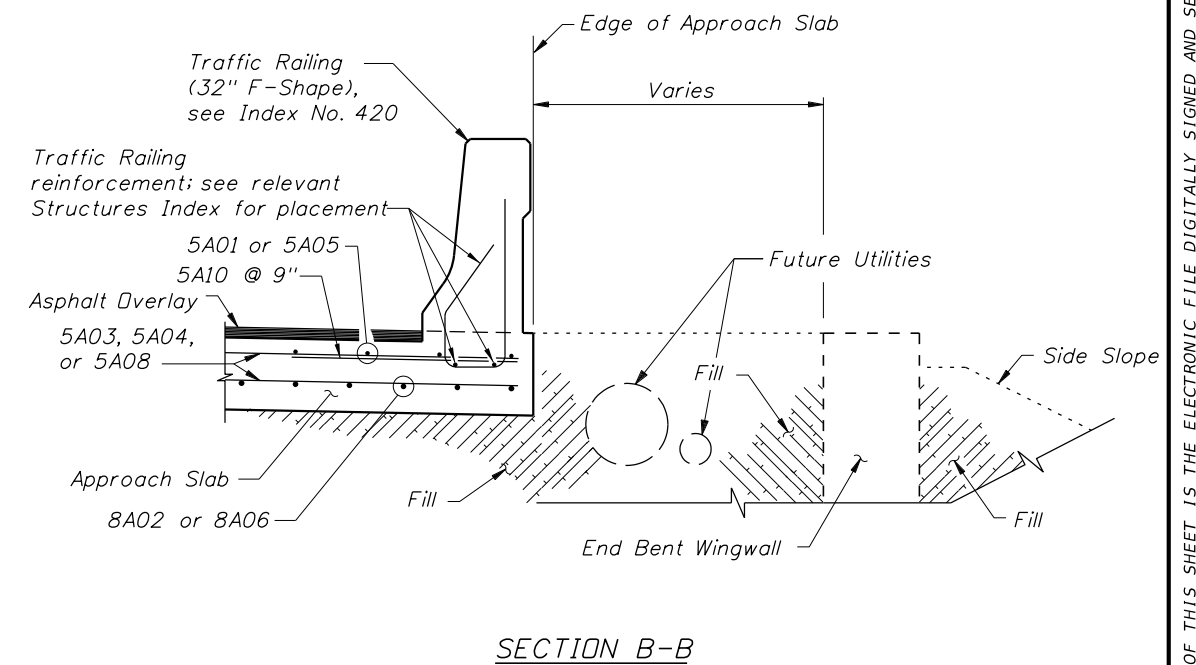
REVISIONS						NAMES		DATES		KimleyHorn Certificate of Authorization No. 696 Thomas W. Farnan, P.E. P.E. License No. 49143 1920 Wekiva Way, Suite 200 West Palm Beach, Florida 33411	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS		APPROACH SLAB LAYOUT		SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY	RJF	06/07			ROADWAY IMPROVEMENTS TO C.R. 510 AND 66th AVENUE		61st & 65th STREET BRIDGES OVER 66th AVENUE CANAL		B-23
						CHECKED BY	TWF	03/17							
						DESIGNED BY	JJF	06/07							
						CHECKED BY	TWF	03/17							
						APPROVED BY	T.W. FARNAN								

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GENERAL NOTES

1. SURFACE TREATMENT: As an option to Class 4 Floor Finish (Bridge Floor Grooving) per Section 400 a hand tined or heavy broomed finish may be permitted on the concrete portion of the riding surface. Sidewalk areas shall receive a broomed finish. The top surface of the concrete beneath the asphalt overlay shall be raked.



REVISIONS						NAMES			DATES		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION						
						DRAWN BY	RJF	06/07	Kimley»Horn Certificate of Authorization No. 696 Thomas W. Farnan, P.E. P.E. License No. 49143 1920 Wekiva Way, Suite 200 West Palm Beach, Florida 33411		
					CHECKED BY	TWF	03/17				
					DESIGNED BY	JJF	06/07				
					CHECKED BY	TWF	03/17				
					APPROVED BY	T.W. FARNAN					

BRIDGE NO'S 880049 & 884038

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS

APPROACH SLAB DETAILS

ROADWAY IMPROVEMENTS
TO C.R. 510 AND 66th AVENUE

61st & 65th STREET BRIDGES
OVER 66th AVENUE CANAL

SHEET NO.

B-24

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MARK	LENGTH	NO	TYP	STY	B			C			D			E			F			H			J			K			N	Ø	
SIZE	DES	FT	IN	BARS	BAR	A	G	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	NO	ANG	
		LOCATION SUPERSTRUCTURE										NO. REQUIRED = 1																			
5	S01	2- 1	1378	11				0- 6			0-11			0- 8																	
6	S02	40- 2	52	1				40- 2																							
6	S03	68- 8	4	1				68- 8																							
5	S04	40- 2	9	1				40- 2																							
5	S05	8- 7	41	13				7- 5			0- 7			0- 7															90	76	
5	S06	2- 4	41	10				1- 6			0-10																				
		LOCATION END BENTS										NO. REQUIRED = 2																			
8	B01	48- 3	9	1				48- 3																							
8	B02	34- 9	9	1				34- 9																							
5	B03	45- 4	2	1				45- 4																							
5	B04	34- 9	2	1				34- 9																							
6	B05	6- 0	27	1				6- 0																							
5	B06	10- 1	72	4				1-10 1/2			3- 2																				
5	B07	8- 1	10	5				1-10 1/2			3- 2			0-11			0- 3														
6	B08	4- 7	30	23				2- 0			0- 2 1/4			2- 0																	
5	B09	7- 0	12	11				1- 4			2-10			2-10																	
5	B10	14- 9	24	4	4	4		3- 8 1/2			3- 2																				
5	B11	11- 9	6	5				3- 8 1/2			3- 2			0-11			0- 3														
5	B12	9- 0	28	1				9- 0																							
5	B13	6- 0	4	1				6- 0																							
5	B14	9- 3	6	13				3- 9			2- 9			2- 9															45	45	
5	B15	10- 2	2	13				3-10			3- 2			3- 2															45	45	
5	B16	3-10	2	1				3-10																							
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5	B22	10- 7	2	13				5- 2			3- 9			1- 8															45	45	
5	B23	11-10	4	13				5-10			4- 0			2- 0															45	45	
5	B24	7-11	8	11				3-10 1/2			2- 0			2- 0																	
5	B25	4-11	6	11				3-10 1/2			0- 6			0- 6																	
5	B26	4- 2	6	11				3- 2			0- 6			0- 6																	
		LOCATION APPRDACH SLAB BEGIN BRIDGE										NO. REQUIRED = 1																			
5	A01	19- 6	71	1				19- 6																							
8	A02	19- 6	71	1				19- 6																							
5	A04	53- 0	54	1				53- 0																							
5	A05	19- 6	16	1				19- 6																							
8	A06	19- 6	16	1				19- 6																							
5	A07	10- 9	52	1				10- 9																							
5	A08	9- 0	62	1				9- 0																							
5	A09	6- 0	2	12				5- 0			1- 0																			22	
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5	A12	1-10	19	10				1- 4			0- 6																				
5	A13	19- 0	9	1				19- 0																							
5	A14	8- 5	19	10				7- 5			1- 0																				
		LOCATION APPRDACH SLAB END BRIDGE										NO. REQUIRED = 1																			
5	A01	19- 6	79	1				19- 6																							
8	A02	19- 6	79	1				19- 6																							
5	A03	58- 3	54	1				58- 3																							
5	A11	5- 0	26	1				5- 0																							
5	A12	1-10	20	10				1- 4			0- 6																				
5	A13	19- 6	9	1				19- 6																							
5	A14	8- 5	20	10				7- 5			1- 0																				

NOTE: 61st Street Bridge shown, 65th Street Bridge similar.

BRIDGE NO'S 880049 & 884038

REVISIONS			NAMES		DATES		Kimley»Horn Certificate of Authorization No. 696 Thomas W. Farnan, P.E. P.E. License No. 49143 1920 Wekiva Way, Suite 200 West Palm Beach, Florida 33411	INDIAN RIVER COUNTY			REINFORCEMENT BAR LIST			SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	BOARD OF COUNTY COMMISSIONERS			61st & 65th STREET BRIDGES					
						ROADWAY IMPROVEMENTS			OVER 66th AVENUE CANAL			B-25		
						TO C.R. 510 AND 66th AVENUE								

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