

FLORIDA DEPARTMENT OF TRANSPORTATION DISTRICT VI

TRANSPORTATION ALTERNATIVES
APPLICATION FOR FISCAL YEAR 2026/2027

2021 Application Cycle

A. APPLICANT INFORMATION

AGENCY (Local Agency PROJECT SPONSOR): City of North Miami					
APPLICATION CONTACT PERSON: Mohammad Ayub Zaid TITLE: Transportation Manager					
ADDRESS: 1855 NE 142 Street	CITY / STATE / ZIP: North Miami,FL 33181				
PHONE: 305-895-9883 EMAIL: mzaid@northmiamifl.gov					
PROJECT SPONSOR'S LOCAL AGENCY PROGRAM (LAP	P) CERTIFICATION STATUS ¹ Select one response				
□ Full Certification: Click here to enter text.	Responsible Charge: Mohammad Ayub Zaid Phone: 305-895-9883				
☐ Project Specific Certification: Click here to enter text	Responsible Charge: Click here to enter text.				
	Phone: Click here to enter text.				
☐ Not Certified, Local Agency has attached a Certification Schedule *					
☐ Not Certified, Local Agency does not have a Certification Schedule*					
B. PROJECT INFORMATION					
PROJECT TITLE, DEDECTRIANI PRIDCE REDI ACENAENT OVER C. 9. CANIAL / DICCAVAIC CANIAL V					
PROJECT TITLE: PEDESTRIAN BRIDGE REPLACEMENT OVER C-8 CANAL (BISCAYNE CANAL) PROJECT LOCATION: Over C-8 Canal at approximately 1,400-feet south of the existing N.E. 135th Street bridge.					
	1,400-feet south of the existing N.E. 135th Street bridge.				
ROADWAY NAME AND/OR NUMBER: N/A					
PURPOSE OF PROJECT: Replacement of Pedestrian Bridge					
	edestrian Bridge over the South Florida Water Management District				
C-8 canal (Biscayne Canal). The existing bridge is locate	_				
approximately 1,400-feet south of the existing N.E. 135th Street vehicular bridge.					
Note: All questions on the application <u>must</u> have a response. Failure to respond <u>to all</u> questions will result in a <u>disqualification</u> of the application. Should you feel that a question is not applicable to your project, please respond "not applicable."					
FOR FDOT USE ONLY					
Application Complete	□YES □NO				
Project Eligible	□YES □NO				
-					

¹ All Agencies shall be certified according to the Local Agency Program Manual Chapter 2, for more details contact the Local Programs office at (305) 470-5141 https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/programmanagement/lap/manual/final-ch2-20190319.pdf?sfvrsn=a03958a9_2



C. TA QUALIFYING ACTIVITIES - PROJECT CRITERIA

Select the Transportation Alternative activity that the proposed project will address. Please select one activity that represents most of the work proposed. Eligible activities must be consistent with details described under 23 U.S.C. 101(a) (29) and 213(b). (Note: selecting more than one activity does not ensure or increase eligibility.)

lighting and other safety - related infrastructure, and transportation projects to achieve compliance with Americans with Disabilities Act of 1990 2.		
for non-drivers, including children, older adults, and individuals with disabilities to access daily needs Conversion and use of abandoned railroad corridors for trails for pedestrians, bicyclists, or other non-motori Transportation users Construction of turnouts, overlooks, and viewing areas Community improvement activities, which include but are not limited to: a)	1.	transportation, including sidewalks, bicycle infrastructure, pedestrian and bicycle signals, traffic calming techniques, lighting and other safety - related infrastructure, and transportation projects to achieve compliance with the
Transportation users 4. Construction of turnouts, overlooks, and viewing areas 5. Community improvement activities, which include but are not limited to: a) Inventory, control, or removal of outdoor advertising b) Historic preservation and rehabilitation of historic transportation facilities c) Vegetation management practices in transportation rights-of-way to improve roadway safety, prevagainst invasive species, and provide erosion control d) Archaeological activities relating to impacts from implementation of a transportation project eligunder Title 23 6. Any environmental mitigation activity, including pollution prevention and pollution abatement activities mitigation to: a) Address storm water management, control, and water pollution prevention or abatement related highway construction or due to highway runoff, including activities described in sections 133(b) (1328(a)), and 329 of Title 23; or b) Reduce vehicle-caused wildlife mortality or restore and maintain connectivity among terrestrial or aquinabitats 7. SRTS program-eligible projects and activities listed in section 1404(f) of the SAFETEA-LU: a) Infrastructure-related projects b) Non-infrastructure-related projects c) Safe Routes to School Coordinator	2.	☑ Construction, planning, and design of infrastructure-related projects and systems that will provide safe routes or for non-drivers, including children, older adults, and individuals with disabilities to access daily needs
 5. Community improvement activities, which include but are not limited to: a) Inventory, control, or removal of outdoor advertising b) Historic preservation and rehabilitation of historic transportation facilities c) Vegetation management practices in transportation rights-of-way to improve roadway safety, prevagainst invasive species, and provide erosion control d) Archaeological activities relating to impacts from implementation of a transportation project elig under Title 23 6. Any environmental mitigation activity, including pollution prevention and pollution abatement activities imitigation to: a) Address storm water management, control, and water pollution prevention or abatement related highway construction or due to highway runoff, including activities described in sections 133(b) (1328(a), and 329 of Title 23; or b) Reduce vehicle-caused wildlife mortality or restore and maintain connectivity among terrestrial or aque habitats 7. SRTS program-eligible projects and activities listed in section 1404(f) of the SAFETEA-LU: a) Infrastructure-related projects b) Non-infrastructure-related projects c) Safe Routes to School Coordinator 8. Planning, designing, and constructing boulevards² and other roadways largely in the Right-of-Way of former Interstate System routes or other divided highways 	3.	
 a)	4.	☐ Construction of turnouts, overlooks, and viewing areas
 mitigation to: a)	5.	 a)
 a) ☐ Infrastructure-related projects b) ☐ Non-infrastructure-related projects c) ☐ Safe Routes to School Coordinator 8. ☐ Planning, designing, and constructing boulevards² and other roadways largely in the Right-of-Way of former Interstate System routes or other divided highways 	6.	mitigation to: a) □ Address storm water management, control, and water pollution prevention or abatement related to highway construction or due to highway runoff, including activities described in sections 133(b) (11), 328(a), and 329 of Title 23; or b) □ Reduce vehicle-caused wildlife mortality or restore and maintain connectivity among terrestrial or aquations.
Interstate System routes or other divided highways	7.	a) □ Infrastructure-related projects b) □ Non-infrastructure-related projects
9. ☐ Recreational trails program ³	8.	
	9.	☐ Recreational trails program ³



² A boulevard is defined as a walkable, low speed (35 mph or less) divided arterial thoroughfare in urban environments designed to carry both through and local traffic, pedestrians and bicyclists. Boulevards may be long corridors, typically four lanes but sometimes wider, serve longer trips, provide pedestrian access to land, may be high ridership transit corridors, are primary emergency response routes and use vehicular and pedestrian access management techniques. Curb parking is encouraged.

³ https://www.fhwa.dot.gov/environment/transportation_alternatives/guidance/guidance_2016.cfm#RecreationalTrails



D. PROJECT DETAILS

1. Roadway Classifica	tion:							
☐ State Roadway		eral Aid Roadway		oadway	☐ Otl	ner		
2. Project Termini:								
Begin: N. E 2nd Avenue		End: Griffing Boulevard		Length: 500 feet				
If the project has variou	is locations, incli	ude an attachment spe	ecifying each term	ini and project le			_	
Attachment included?					\boxtimes	Yes		No
3. Location maps and	aerials are attac	hed: REQUIRED				Yes		No
between N.E. 2nd A vehicular bridge. Th replace the existing	oth Florida Wate Avenue and Griff the existing pedes Tipedestrian brid Id no allowance f	ry of North Miami has or Management District ing Boulevard, approxi strian bridge carries bo ge in its entirety. All ex or future utilities will b	C-8 canal (Biscay) mately 1,400-feet th pedestrians and kisting abandoned	ne Canal). The ex south of the exi d utilities. The no utilities current	kisting bi sting N.I ew pede ly moun	ridge is E. 135t strian l ted to t	locate h Stree bridge the bri	ed et will dge
A detailed scope of wor	k is attached				\boxtimes	Yes		No
Conceptual plans are at	tached				\boxtimes	Yes	1	No
Typical section drawing	s are attached				\boxtimes	Yes		Vo
5. Identify the project	t stakeholders:	Click here to enter te	ĸť.					
Has the Local Agency re		m stakeholders?				Yes	\boxtimes	No
Briefly explain Click here	to enter text.							
6. Has the Local Agen	cy porformed p	ublic awaronoss activi	tios or hold somm	unity mootings) M	Yes		No
If yes, provide a brief de								
and meet with neighbo							uctivi	tics
7. Is there public and,	or private supp	ort for the project?			\boxtimes	Yes		No
If yes, provide a brief de					endorser	nents,		
resolutions, letters of si	upport, etc.): Re	solutions and support	letters are attache	ed.				
E. PROJECT	IMPLEMENT	ATION PLAN						
1. Select the project p	phase(s) the loca	Il agency is applying fo	or in this applicati	on:				
☐ Planning Activit	ies		☐ Project	Development 8	Enviror	ment ⁴		
	gineering/Final D	esign	☐ Right o					
			⊠ Constru	uction Engineeri	ng & Ins	pection	n (CEI)	
NOTE: Local agencies are not el	igible to be certified in	PD&E and/or ROW; therefore			_			s).
2. Select who will exe	cute the project	phase (s) identified in	n the question abo	ove. Check all ap	plicable	boxes	:	
PLANNING	PD&E	DESIGN	ROW	CONSTRUCTIO	ON .		CEI	
(**************************************		(5				-		

⁴ Refer to LAP Manual Chapter 11

⁵ Refer to LAP Manual Chapter 12

						F	,DO,	<u> </u>
☐ Local Agency Staff	☐ FDOT	□ Local Agency Staff	⊠ FDOT	□ Contractor		Local A	gency	Staff ⁶
		<u> </u>						
☐ Consultant		⊠ Consultant		FDOT	_	Consul	tant	
		□ FDOT		☐ Not Applicable	_	FDOT		
		☐ Not Applicable by HB 905, effective July 1, 201				Not Ap		
		oily or partially funded by the D OT funded phase(s) the						ity.
Program?						Yes		No
If yes, provide the a		inancial Management						
4. Are signed and	sealed design plan	s available for the pro	ject associated wi	th this application?		Yes	\boxtimes	No
1. Spe 2. Ent b. If no, ident 5. Attach a project Include (as app Consultant Contractor Project sch	ecify the date of descer Engineer of Recoify status of design In No plans In No plans In Section In Indiana In Section In Section In Section In Section In Section In	ribe: Click here to enternay be tentative)Click h	Click here to enter tent. Click here to enter text. Ere to enter text.	N.		Yes Yes Yes Yes		No No No No
		omittal (FDOT 30 days	review)			Yes		No
	ntal Assessments		,			Yes		No
Permit Acq						Yes		No
		lorida Water Manager	nent District					
Copies of perm	its are attached to	this application				Yes	\boxtimes	No
7. Is a maintenan						Yes	\boxtimes	No
Describe: Clic	k here to enter text.							
8. Attach docume	ents requested as e	xhibits to this applicat	ion. List exhibits:	Project Schedule .				
F. RIGHT	OF WAY							
1. Is the project w	vithin the Local Age	ency's right of way?			\boxtimes	Yes		No

If yes, describe the project's existing Right-of-Way ownership as it relates to the project. (i.e. plats, deeds,

prescriptions, certified surveys, easements). City of North Miami owns the right of way.

⁶ Work done by local agency staff requires prior FDOT approval in any phase identified

If no, describe the existing ROW conditions.



2. Is Right-of-Way acquisition proposed in this application?	☐ Yes	⊠ No
If yes, describe the proposed acquisition and provide a ROW map Click here to enter text.		
Identify entity acquiring and retaining ownership of proposed Right-of-Way ⁷ : Click here to enter	text.	
Will temporary construction easements be required?	☐ Yes	\boxtimes No
If yes, please describe: Click here to enter text.		
G. ENVIRONMENTAL EVALUATION		
Coordination with the Federal Highway Administration and the State Historic Preservation Officer will be required by S Historic Preservation Act.	section 106 of	the Nation
A. Has the Local Agency performed an environmental assessment for the project?	☐ Yes	⊠ No
List the environmental assessments performed: Click here to enter text		
B. Does the Local Agency have a historic preservation planner?	☐ Yes	⊠ No
If yes, provide contact information: Click here to enter text.		
C. Is the proposed project located adjacent to a locally designated historic property or a Nation	al Register	of Histori
places-listed historic site?	☐ Yes	⊠ No
f yes, have any historic properties/places received Florida Department of State Historic Preservation		
If you attach processation agreements covariants or accompate	☐ Yes	☐ No
If yes, attach preservation agreements, covenants, or easements.		
D. Are archeological sites or Native American sensitive sites located within proximity to or adja	cent to the	project?
	☐ Yes	⊠ No
If yes, provide a brief description: Click here to enter text.		
E. Has the Local Agency coordinated with any Federal or State Agencies for this project?	☐ Yes	⊠ No
If yes, provide a brief description and submit supporting documentation: Click here to enter text.		
F. Are parks, recreation areas or wildlife or waterfowl refuges in close proximity to the project	? □ Yes	⊠ No
If yes, provide a brief description: Click here to enter text.		
G. Are there any navigable waterways adjacent or near the project?	☐ Yes	⊠ No
If yes, provide a brief description: Click here to enter text.		
H. Does the project have any wetland impacts?	☐ Yes	⊠ No
If yes, will wetlands mitigation be needed?	☐ Yes	☐ No
f yes, provide a brief description: Click here to enter text.		
. Has the Local Agency reviewed the project for potential protected species/ critical habitat in	npacts? 🗌 Y	'es ⊠No
f yes, provide a brief description: Click here to enter text.		
J. Has the Local Agency reviewed the project for potential contamination that could affect the	area? □Ye	s 🗵 No

⁷ All right-of-way acquisitions must comply with State and Federal rules, regulations and procedures.



☐ Yes ☒ No

If yes, provide a brief description: Click here to enter text.

K.	Are there noise sensitive areas?	
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If yes, provide a brief description: Click here to enter text.

H. COST ESTIMATE

For projects that have not been designed, an opinion of probable cost must be submitted with this application.
 Utilize the FDOT's Basis of Estimates Manual⁸ to develop a <u>detailed</u> estimate with FDOT pay items for construction phase estimates. If the project has been designed, then, a detailed engineer cost estimate <u>must be</u> submitted with this application.

The opinion of probable cost or engineers cost estimate is attached to this application

X Yes No

2. Provide a summary of the estimated costs for the proposed work in the table below A project cost estimate <u>must</u> be attached to this application

Activities	Total Cost	Local Funds	TA Funds
Planning Activities	\$Click here to enter text	\$Click here to enter text.	\$Click here to enter text.
Project Development & Environmental Study	\$Click here to enter lext.	\$Click here to enter text.	\$Click here to enter text.
Design Costs/ Plans Preparation	\$101,170.73	\$101,170.73 er text	0.00
Environmental Assessment(s) associated with the design phase	\$ Click here to enter text	\$ Click here to enter text.	\$Click here to enter text.
Permits associated with the design phase (including application fees, mitigation, and permit acquisition work)	\$Click here to enter text.	\$Click here to enter text.	\$Click here to enter text.
Right of Way	\$Click here to enter text	\$Click here to enter text	\$Click here to enter text.
Construction	\$600,000	\$0.00te	\$600,000.00
Construction Engineering and Inspection activities (CEI)	\$100,000.00	\$ 0.00	\$ 100,000.00
Other Costs (describe) ⁹ Click here to enter text.	\$Click here to enter text.	lick ie e tot.	\$C ick here to enter text
Total Estimated Project Cost	\$801,170.73	\$101,107.73	\$700.000.00

I. PROJECT FUNDING

⁸ Use the following links to access the Basis of Estimates Manual as well as historical cost information for your area: http://www.fdot.gov/programmanagement/Estimates/BasisofEstimates/BOEManual/BOEOnline.shtm http://www.fdot.gov/programmanagement/Estimates/HistoricalCostInformation/HistoricalCost.shtm

⁹ FDOT does not allow programming for contingency costs. Any contingency costs should be accounted for using local funds.



TA FUNDS	\$ 700,000.00	PERCENTAGE OF TA FUNDS	100 %.
LOCAL FUNDS ALLOCATED	\$ 101,170.73	PERCENTAGE OF LOCAL CONTRIBUTION	100%
TOTAL PROJECT COST	\$ 801,170.73		

Note: The percentage of local contribution indicated above will be greater than or equal to the local contribution to the final contract award.

Example A: A 20% local contribution is indicated for a construction project. The local agency was awarded \$1,000,000. The bid amount is \$1,000,000. The awarded amount would be reduced to \$800,000. The local agency would contribute \$200,000.

Example B: A 20% local contribution is indicated for a construction project. The local agency was awarded \$1,000,000. The bid amount is \$1,400,000. The awarded amount would remain \$1,000,000. The local agency would contribute \$400,000.

1. Describe in detail how the project will be funded (include funding types and commitment of funds):

City has funded the project design and construction cost is not funded at this time. We plan to fund construction through state and federal grants.

2. Provide the funding year for each phase(s) of the project:

Design phase was funded FY 2020. Construction phase is not funded.

3. Provide a letter from the Local Agency's Budget Office committing Local Funds to the project.

A copy of the letter is included with this application.

☐ Yes ☒ No

J. Project Sponsorship Certification

I hereby certify that the proposed project herein described is supported by City of North Miami (Local Agency, county, state or federal agency, or tribal council) and that said entity will: (1) provide any required funding match; (2) enter into a maintenance agreement with the Florida Department of Transportation (FDOT); (3) comply with the Federal Uniform Relocation Assistance and Acquisition Policies Act for any Right of Way actions required for the project, (4) Comply with Local Agency Program Manual during all phases of the project, (5) comply with the NEPA process prior to construction, which may involve coordination with the State Historic and Preservation Office (SHPO) prior to construction, and (6) support other actions necessary to fully implement the proposed project.

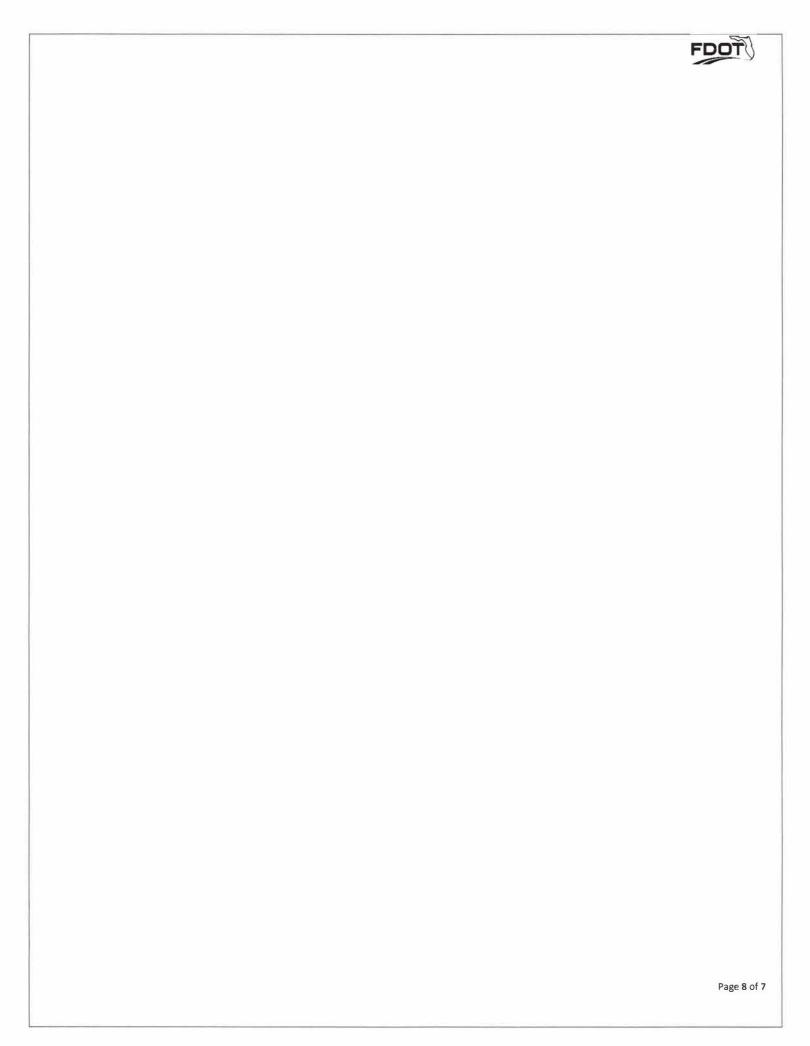
I further certify that the estimated costs are reasonable and understand that City of North Miami (Local Agency, county, state or federal agency, or tribal council) will bear all expenses in excess of the total cost of the project. Upon notification of project award, I further certify that the aforementioned entity will work with the FDOT to ensure the associated contracts are executed in the fiscal year programmed. Project deferrals are highly discouraged and are subject to fund availability.

Name (please type or print): Theresa Therilus, Esq.

Title: City-Manager lext

Signature: There The Dress.

Date: Clict / 28/2/ext





If you have any questions about this application or need assistance, please contact:

Oscar Camejo

Miami-Dade Transportation Planning Organization Phone: (305) 375-1837

Email: Oscar.Camejo@miamidade.gov

Janene Sclafani Monroe County Phone: (305) 289-2545

Email: Sclafani-Janene@MonroeCounty-FL.Gov

Xiomara Nunez

Florida Department of Transportation District Six Phone: (305) 470-5404

xiomara.nunez@dot.state.fl.us

RESOURCES

FDOT Local Agency Program Manual

FDOT PD&E Manual

https://www.fdot.gov/programmanagement/LAP/LAP-TOC.shtm

Basis of Estimates Manual

http://www.fdot.gov/programmanagement/Estimates/BasisofEstimates/BOEManual/BOEOnline.shtm

RESOLUTION NO.

A RESOLUTION OF THE MAYOR AND CITY COUNCIL OF THE CITY OF NORTH MIAMI, FLORIDA, AUTHORIZING THE SUBMITTAL OF A GRANT APPLICATION AND AUTHORIZING THE CITY MANAGER AND **ATTORNEY** NEGOTIATE AND EXECUTE AN AGREEMENT BETWEEN THE CITY OF NORTH MIAMI AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) **FOR GRANT FROM** TRANSPORTATION ALTERNATIVES PROGRAM; PROVIDING FOR AN EFFECTIVE DATE AND FOR ALL OTHER PURPOSES.

WHEREAS, the Mayor and City Council are desirous of applying for and securing a grant from the Florida Department of Transportation's Transportation Alternatives Program; and

WHEREAS, the City of North Miami is requesting a grant in the amount of Seven Hundred Thousand Dollars (\$700,000.00) with a required match in the amount of One Hundred One Thousand One Hundred Seventy Dollars and 73/100 (\$101,170.73) for a total project cost of Eight Hundred One Thousand One Hundred Seventy Dollars and 73/100 (\$801,170.73); and

WHEREAS, funds will be used to replace the existing pedestrian bridge over the South Florida Water Management District C-8 Canal located between Northeast 2nd Avenue and Griffing Boulevard; and

WHEREAS, the Mayor and City Council wish to authorize the submittal of a grant application as well as to fully authorize the negotiation and execution of an agreement between the City and the Florida Department of Transportation for the purpose of securing grant funds.

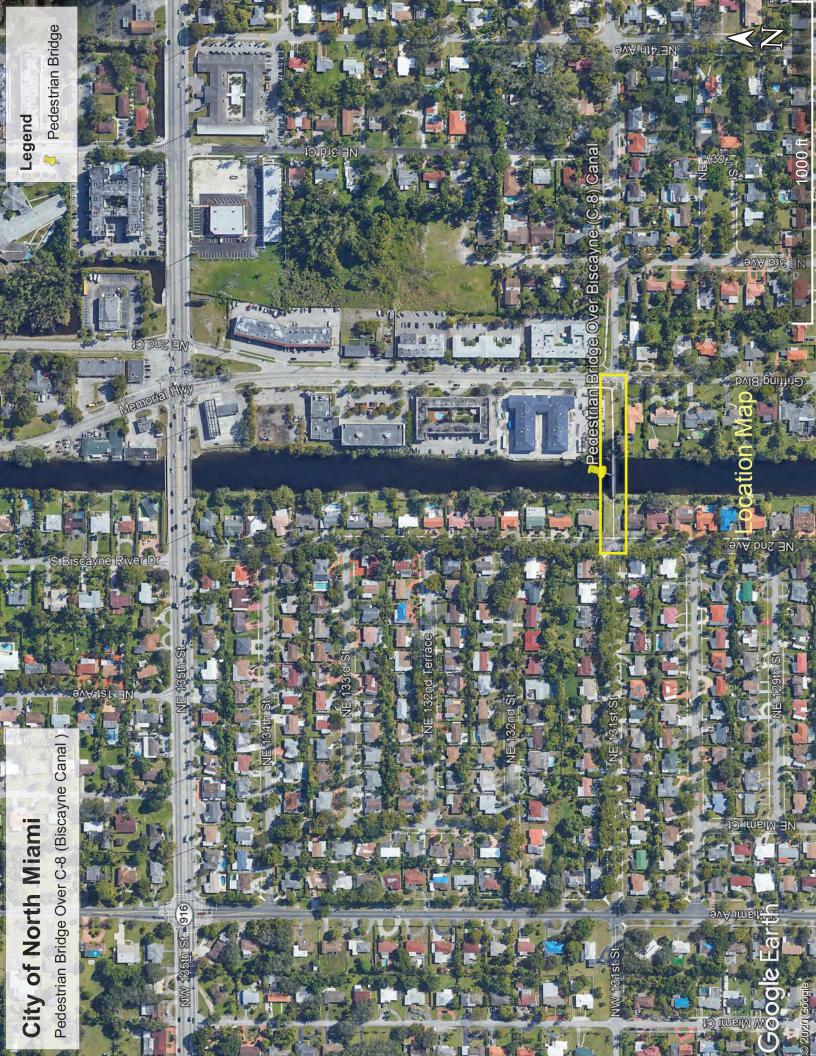
NOW THEREFORE, BE IT DULY RESOLVED BY THE MAYOR AND CITY COUNCIL OF THE CITY OF NORTH MIAMI, FLORIDA:

Section 1. Authorization to Submit Grant Application. The Mayor and City Council of the City of North Miami, Florida, hereby authorize the submittal of the City of North Miami's application for a grant from the Florida Department of Transportation's Transportation Alternatives Program.

City Attorney are hereby authorized to negotiate and execute an agreement between the City of North Miami, Florida and the Florida Department of Transportation. Section 3. **Effective Date.** This Resolution shall become effective immediately upon adoption. PASSED AND ADOPTED by a ______ vote of the Mayor and City Council of the City of North Miami, Florida, this _____ day of ______, 2021. PHILIPPE BIEN-AIME MAYOR ATTEST: VANESSA JOSEPH, ESQ. CITY CLERK APPROVED AS TO FORM AND LEGAL SUFFICIENCY: JEFF P. H. CAZEAU, ESQ. **CITY ATTORNEY** SPONSORED BY: CITY ADMINISTRATION Moved by: Seconded by: Vote: Mayor Philippe Bien-Aime _____(Yes)____(No) Vice Mayor Scott Galvin _____ (Yes)_____ (No) Councilwoman Carol Keys, Esq. _____ (Yes)_____ (No) ____(Yes)___(No) Councilwoman Mary Estimé-Irvin _____(Yes)____(No) Councilman Alix Desulme, Ed.D.

Authority to City Manager and City Attorney. The City Manager and

Section 2.



DRAWING INDEX CIVIL DRAWINGS **SHEET DRAWINGS COVER SHEET** EXISTING SITE PLAN AND PROFILE PROPOSED SITE PLAN AND PROFILE



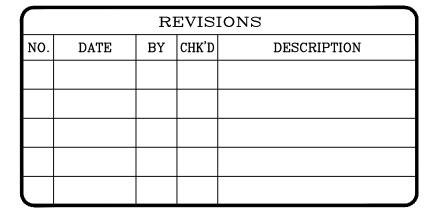
CITY OF NORTH MIAMI

PEDESTRIAN BRIDGE REPLACEMENT OVER THE C-8 CANAL (BISCAYNE CANAL)

CONTRACT PLANS

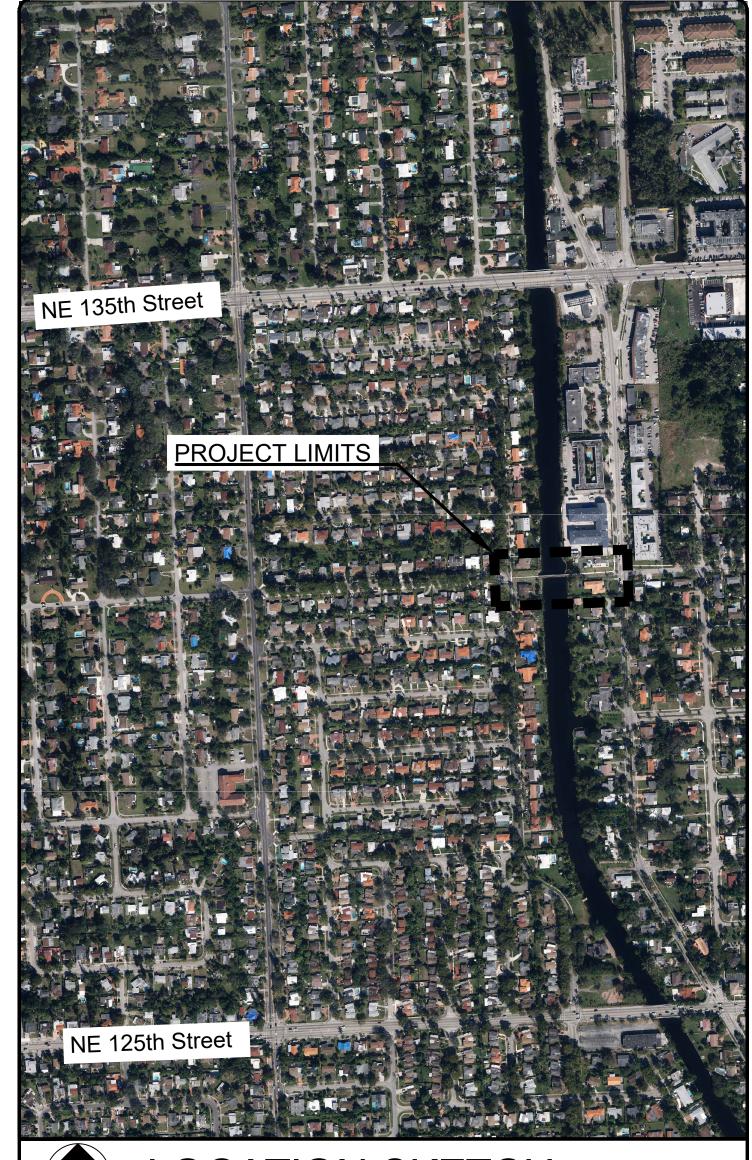


6861 S.W. 196th Avenue, Suite 302 Pembroke Pines, Florida · 33332 (954) 680-7771 · Fax: (954) 680-7781



The consultant, contractor or other parties associated with this project shall comply with Florida Statutes Chapter 119. These plans are the property of the District and must be secured and maintained in a confidential manner. Review by any unauthorized individual or outside/third party not performing work necessary for this project is prohibited.

This item has been electronically signed and sealed by José A. Peña on the date adjacent to the seals, using SHA-1 authentication codes. Printed copies of this document are not considered signed and sealed and the SHA-1 authentication codes must be verified on any electronic copies.



NORTH

LOCATION SKETCH (SCALE: N.T.S.)

CITY OF NORTH MIAMI

UTILITIES & ENGINEERING DEPARTMENT

CITY OF NORTH MIAMI OFFICIALS

PHILIPPE BIEN-AIME SCOTT GALVIN CAROL KEYS, ESQ. MARY ESTIME-IRVIN

ALIX DESILME, Ed.D.

MAYOR
DISTRICT 1 COUNCILMAN
DISTRICT 2 COUNCILWOMAN
DISTRICT 3 COUNCILWOMAN
DISTRICT 4 COUNCILMAN

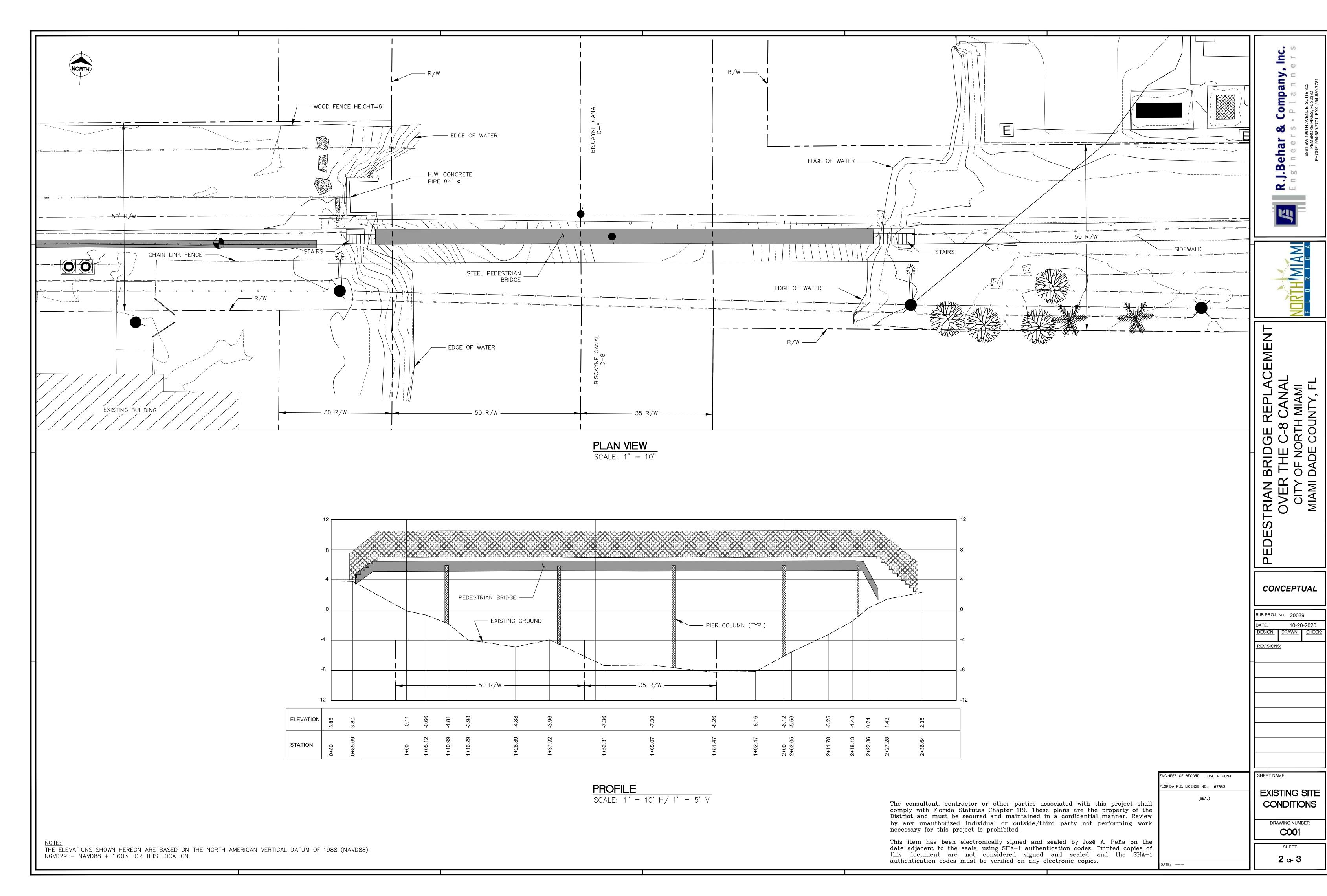
ENGINEER OF RECORD:

JOSE A. PENA, P.E.

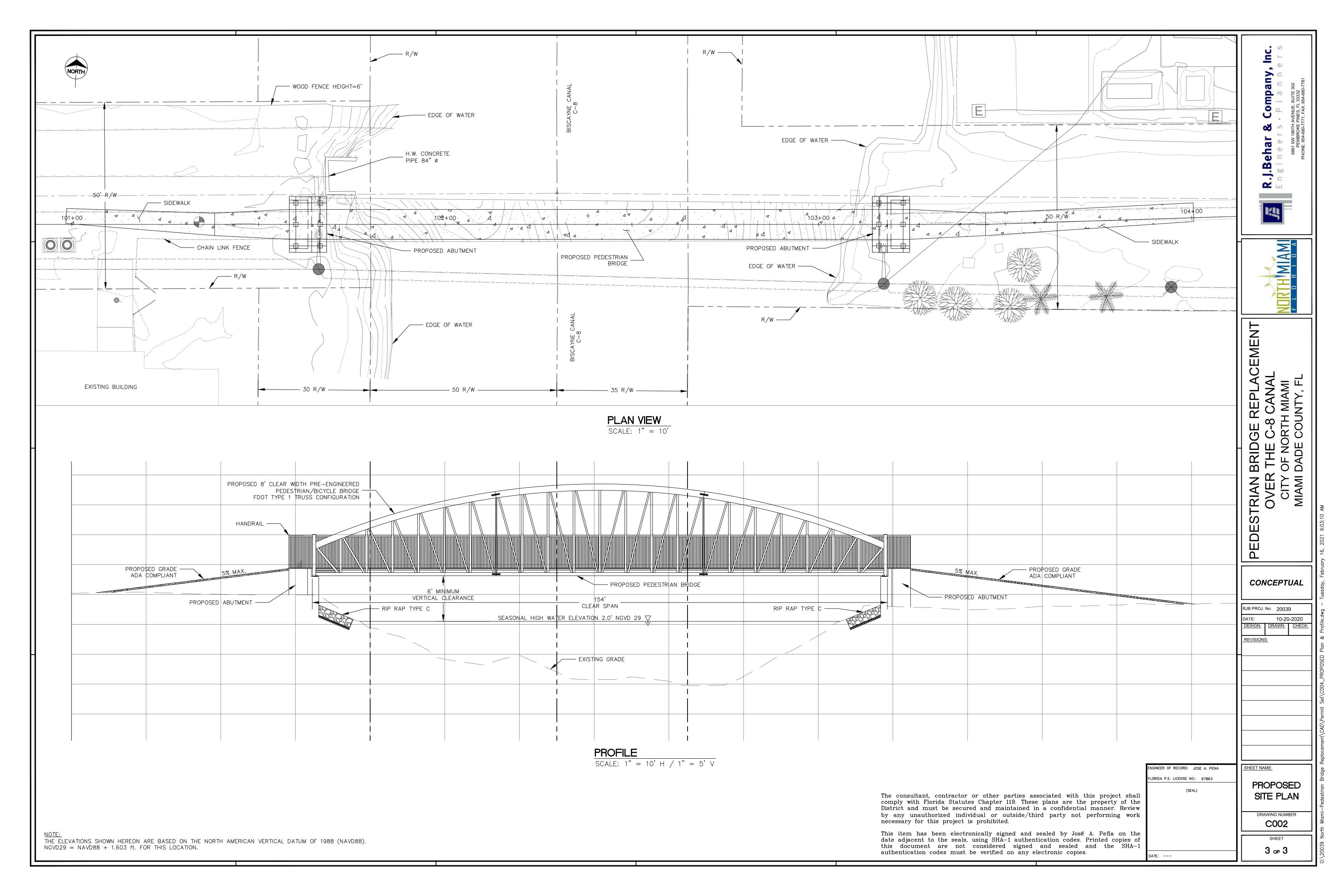
SHEET NAME: G001

R.J. BEHAR PROJECT No.: 20039

CONCEPTUAL PRELIMINARY



Set\C002_EXISTING Plan & Profile.dwg — Tuesday, January 12, 2021 7:55





November 4, 2020

Mr. Mohammad Ayub Zaid Transportation Manager Public Works 1855 NE 142nd St North Miami, FL 33161

RE: Pedestrian Bridge over Biscayne Canal - Conceptual Design Submittal

RJB Project no. 20039

Dear Mr. Zaid:

RJ Behar is presenting the conceptual design submittal for the pedestrian bridge alternatives for the City of North Miami selection.

We have investigated three alternatives considering spans configurations, material types, foundation supports and construction cost for the pedestrian bridge over the C-8 canal (Biscayne Canal).

Please feel free to contact me with any questions or if you require additional information.

Sincerely,

R.J. BEHAR & COMPANY, INC.

Hans Murzi, PE, CFM

Project Manager

Hans Murzi



PEDESTRIAN BRIDGE REPLACEMENT OVER THE C-8 CANAL (BISCAYNE CANAL)

CONCEPTUAL DESIGN SUBMITTAL

I. Introduction

The city of North Miami has determined the need to replace the existing Pedestrian Bridge over the South Florida Water Management District C-8 canal (Biscayne Canal). The existing bridge is located between N.E. 2nd Avenue and Griffin Boulevard, approximately 1,400-feet south of the existing N.E. 135th Street vehicular bridge. The existing pedestrian bridge carries both pedestrians and utilities. However, the new pedestrian bridge will replace the existing pedestrian bridge in its entirety. All existing abandoned utilities currently mounted to the bridge will be removed and no allowance for future utilities will be accommodated on the new bridge. The bridge length will be refined once survey is completed.

II. Bridge Alternatives

a. Alternative 1 - Straight Truss Bridge

Description: A single span bridge, approximate 150 feet long and 8 feet wide, composed of two main steel straight trusses and a concrete deck. The bridge will be entirely prefabricated, delivered to the site in three pieces, and erected on site using two cranes positioned on each side of the canal. The bridge installation could be done in one day. Two cast in place concrete abutments, with ADA compliant accessible ramps, will be built at both ends where the bridge will sit. See conceptual plan sheet 1 of 3.

Construction Duration: The bridge construction will take approximately 6 to 7 months. **Conceptual Construction Cost:** \$ 573,807

Advantage:

- Minimum permit efforts
- Shortest construction duration
- Lowest construction cost

Disadvantage:

• Paint maintenance cost of the steel structure

b. Alternative 2 - Arch Truss Bridge

Description: A single span bridge, approximate 150 feet long and 8 feet wide, composed of two main steel arch trusses and a concrete deck. The bridge will be entirely prefabricated, delivered to the site in three pieces, and erected on site using two cranes positioned on each sides of the canal. The bridge installation could be done in one day.

Two cast in place concrete abutments, with ADA compliant accessible ramps, will be built at both ends where the bridge will sit. See conceptual plan sheet 2 of 3.

Construction Duration: The bridge construction will take approximately 6 to 7 months.

Construction Cost: \$ 587,307

Advantage:

- Minimum permit efforts
- Shortest construction duration
- Low construction cost

Disadvantage:

Paint maintenance cost of the steel structure

c. Alternative 3 - Concrete Slab Bridge

Description: Three span bridge, each span approximate 50 feet long and 8 feet wide, composed of a substructure of two concrete piers and three concrete slabs. The bridge will be entirely cast in place and will require four piles to be driven in the middle of the canal. Also, two concrete abutments, with ADA compliant accessible ramps, will be built at both ends where two of the bridge slabs will sit. See conceptual plan sheet 3 of 3. **Construction Duration:** The bridge construction will take approximately 10 to 12

months. Conceptual Construction Cost: \$ 609,245

Advantage:

• Minor or No maintenance cost

Disadvantage:

- More permit efforts
- Longest construction duration
- Highest construction cost

III. Bridge Railing Alternatives

See attached FDOT Standards Plans railing types alternatives.

CONCEPTUAL CONSTRUCTION COST EVALUATION

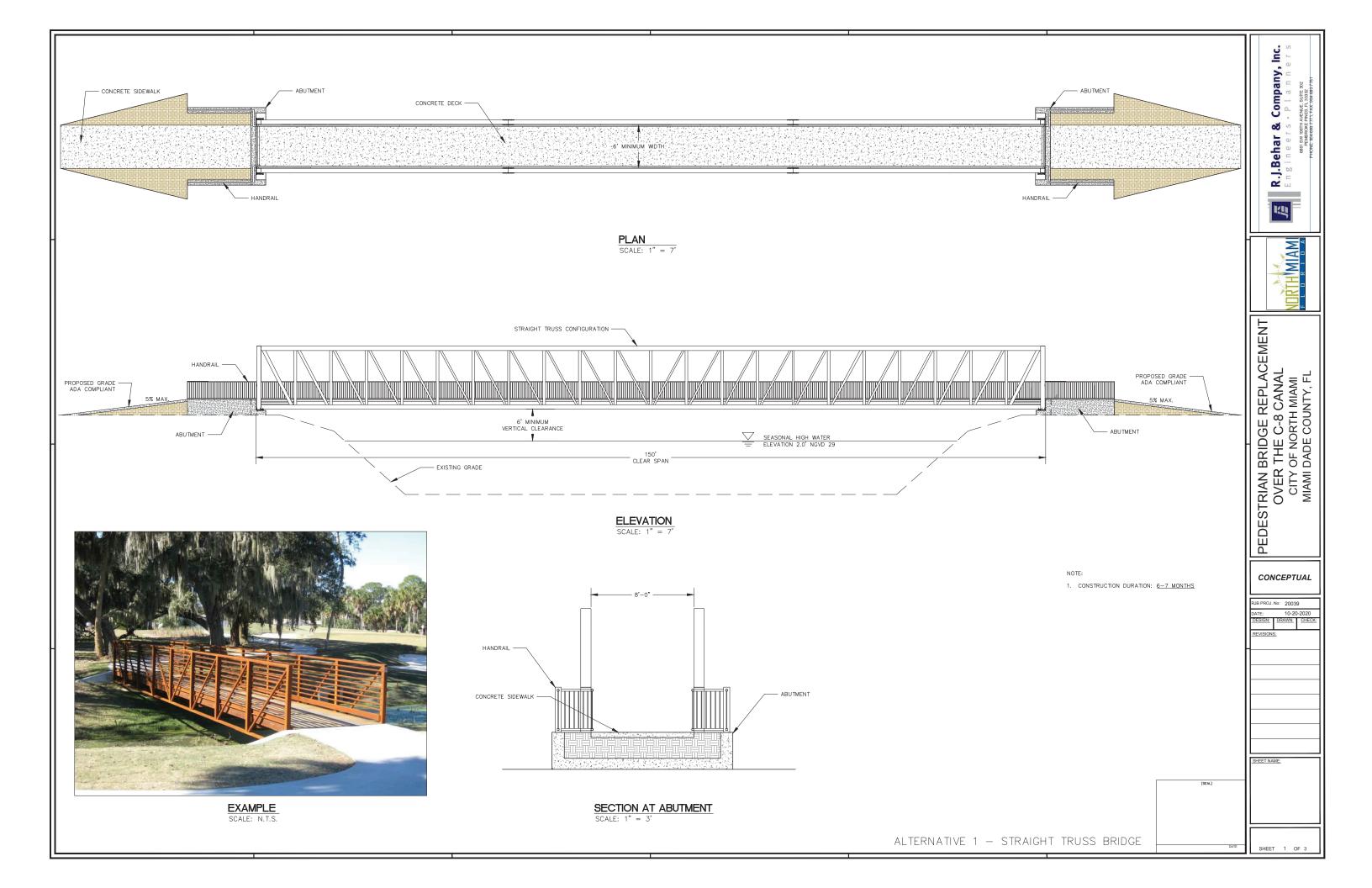


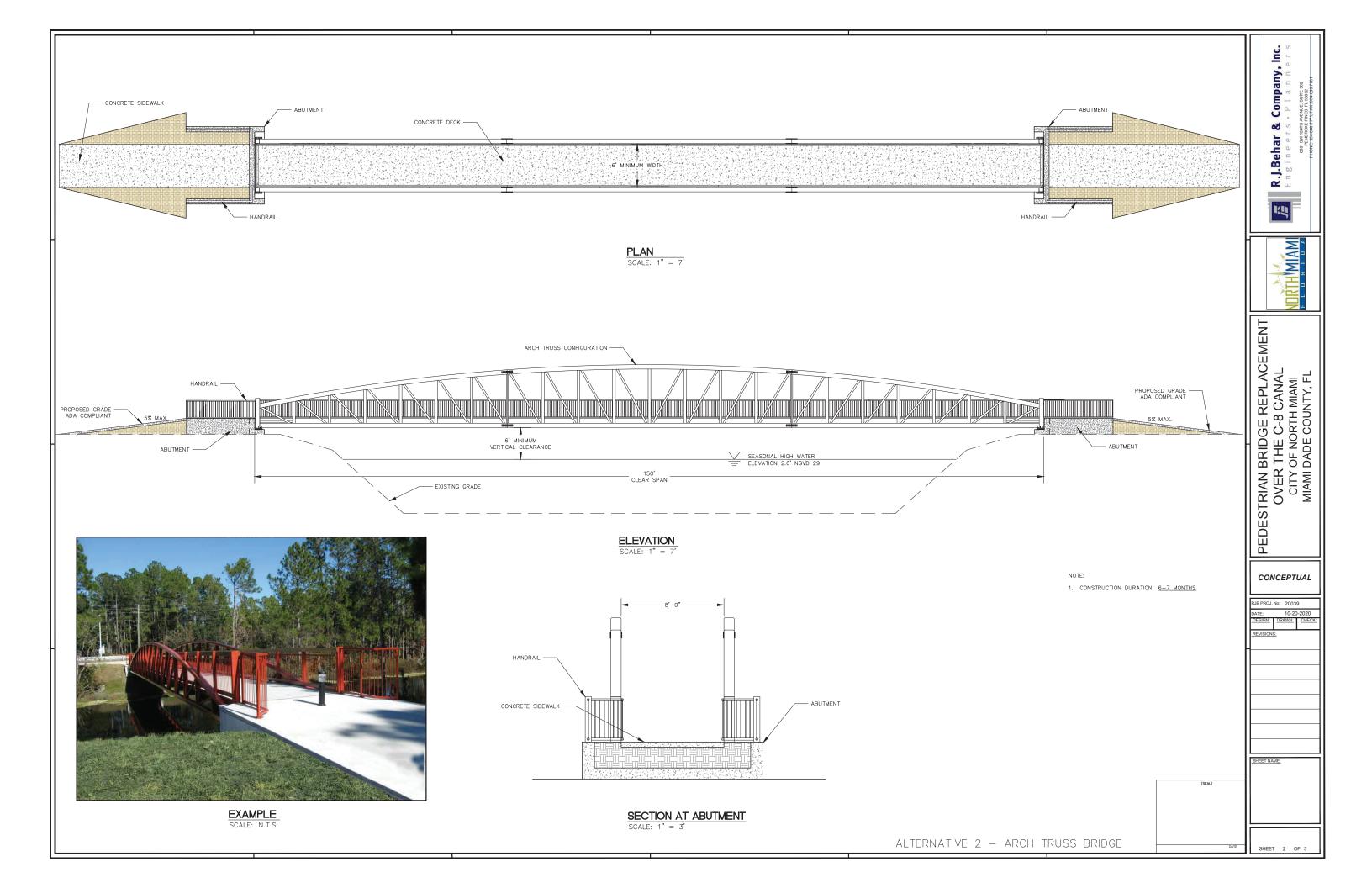
PEDESTRIAN BRIDGE REPLACEMENT OVER THE C-8 CANAL (BISCAYNE CANAL)

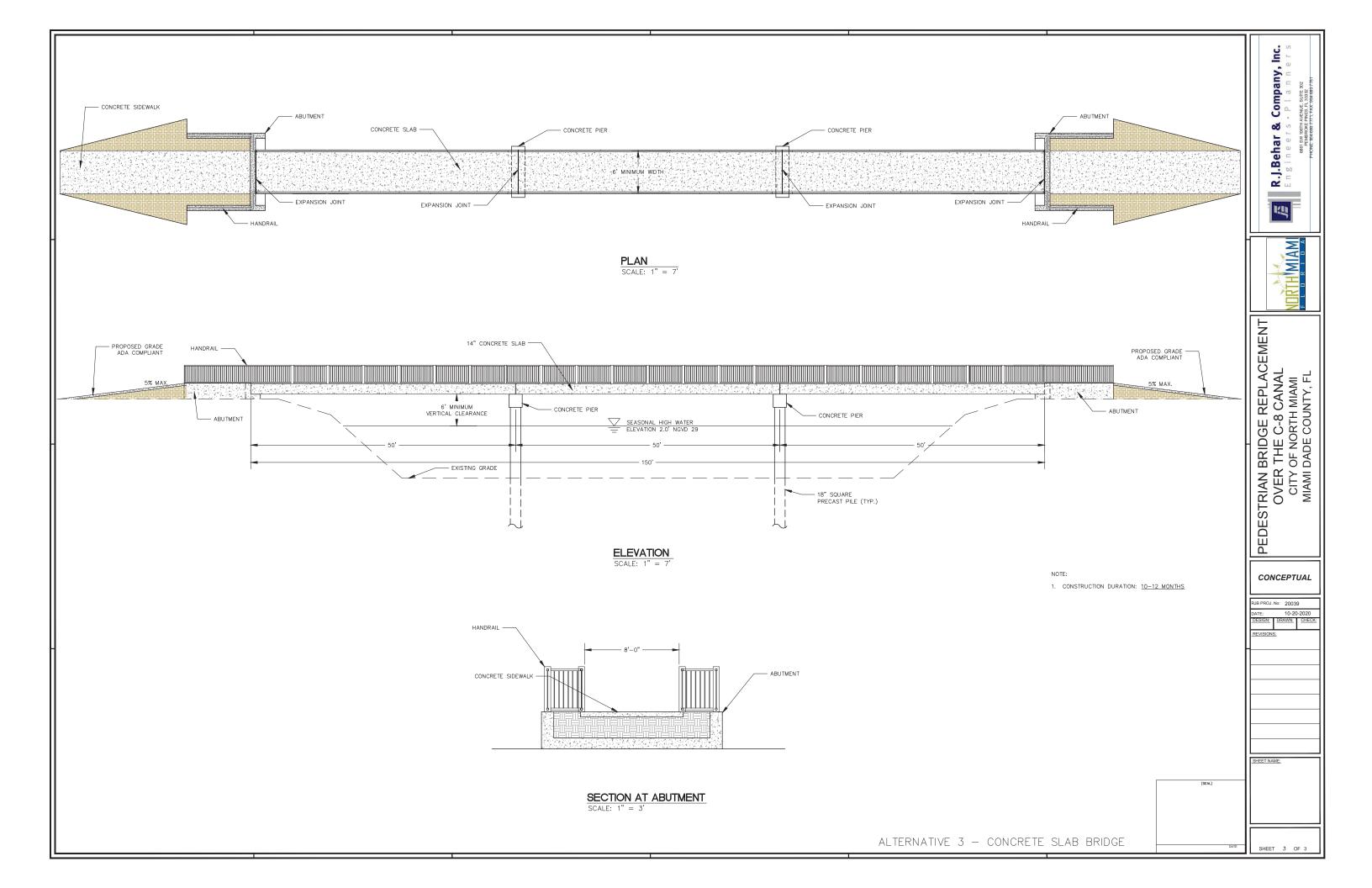
	5	CILY OF NORTH MIAM					
ITEM No.	Item Description	Quantity	Unit	Unit Cost	ALT 1 Straight Truss	ALT 2 Arch Truss	ALT 3 Concrete Slab
MOBILIZATION	ON:						
_	Mobilization (10%)	_	ST	-	\$42,504.22	\$43,504.22	\$65,276.28
	Subtotal (Items 1-1)				\$42,504	\$43,504	\$65,276
BRIDGE SU	SUBSTRUCTURE & SITE:						
2	Clearing and Grubbing	0.1	AC	\$65,300.00	\$6,530	\$6,530	\$6,530
က	Removal of Existing Structures/Bridges	2,572	SF	\$32.00	\$82,304	\$82,304	\$82,304
2	Embankment	86	ζ	\$16.00	\$1,564	\$1,564	\$1,564
9	Floating Turbidity Barrier	320	느	\$17.00	\$5,440	\$5,440	\$5,440
7	Concrete Class II, Substructure (Abutments)	20	ζ	\$1,400.00	\$70,000	\$70,000	\$70,000
8	Reinf Steel, Substructure (Abutments)	3,550	87	\$1.00	\$3,550	\$3,550	\$3,550
6	Concrete Sidewalk, 6" Thick	65	SΥ	\$52.00	\$3,397	\$3,397	\$3,397
10	Pier Piles (18" SQ)	06	님	\$130.00	•	•	\$11,700
11	Pier Test Pile - Prestressed Concrete (18" SQ)	30	占	\$158.00	•	•	\$4,740
12	Pier Pile Cap (Conc Class II, Substructure)	4	λO	\$1,410.00	-	•	\$6,201
13	Pier Pile Cap (Reinf Steel, Substructure)	320	a٦	\$1.10	-	-	\$352
14	Plain Neoprene Bearing Pad	1.4	J)	\$1,020.22	\$1,436	\$1,436	
15	Monitor Existing Structure - Vibration Monitoring	4	EA	\$7,400.00	-	-	\$29,600
16	Template (Pile Installation)	1	ΓS	\$52,000.00			\$52,000
	Subtotal (Items 2-16)				\$174,222	\$174,222	\$277,379
RIDGE SU	BRIDGE SUPERSTRUCTURE:						
17	Ped/Bicycle Railing, Alum. 42" Type 1	305	ΓF	\$85.00	-	-	\$25,925
18	Steel Trusses (Straight)	_	EA	\$235,000.00	\$235,000	-	
19	Steel Trusses (Arch)	1	EA	\$245,000.00	-	\$245,000.00	
20	Deck (Conc Class II, Superstructure)	14	λO	\$775.00	\$10,850	\$10,850	
21	Deck (Reinforcing Steel - Bridge Superstructure)	497	B٦	\$10.00	\$4,970	\$4,970	
22	Flat Slab (Conc Class II, Superstructure)	85	λO	\$775.00	-	•	\$65,875
23	Flat Slab (Reinforcing Steel - Bridge Superstructure)	6,300	B٦	\$10.00	-	-	\$63,000
24	Bridge Deck Expansion Joint, New Construction	28	J٦	\$107.00	-	-	\$2,996
	Subtotal (Items 17-24)				\$250,820	\$260,820	\$157,796
OTHER COSTS:	STS:						
25	Contingency (25%)	1	ST	-	\$106,260.56	\$1(\$108,793.79
	GRAND TOTAL				208'82'8	\$587,307	\$609,245

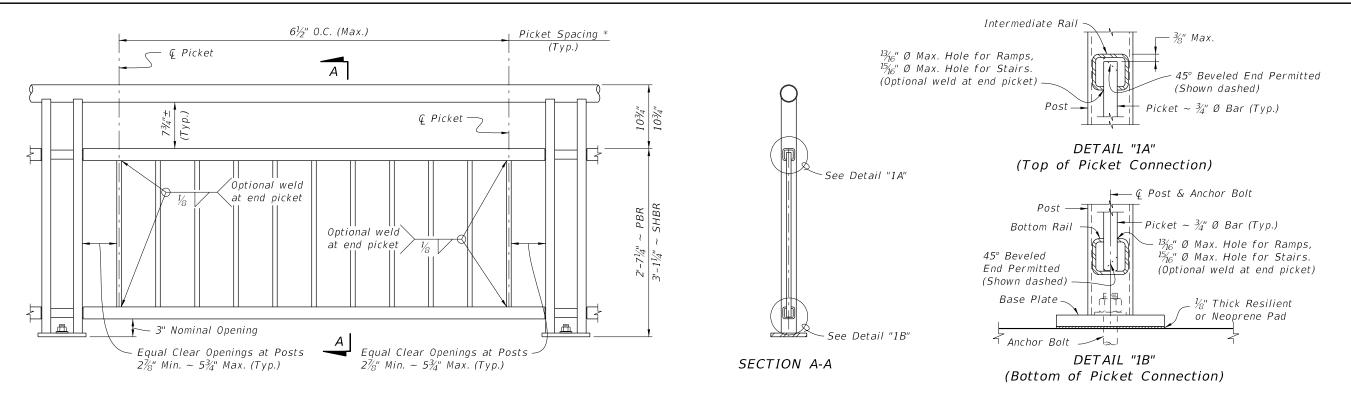
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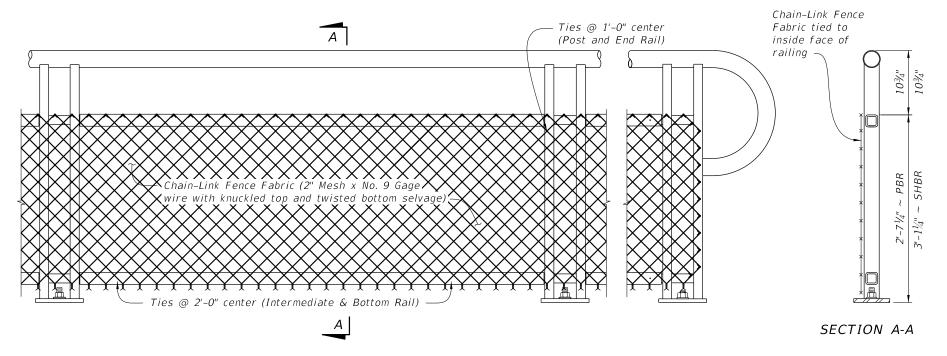




TYPE 1 - PICKET INFILL PANEL

PICKET NOTES:

* Picket Spacing of $6\frac{1}{2}$ " centers is based on a $\frac{3}{4}$ " Ø Bar for standard applications. When shown in the Contract Plans a $4\frac{1}{2}$ " picket spacing may be required. See Note 4 (Sheet 1).



TYPE 2 - CHAIN-LINK (Continuous Infill Panel)

NOTES:

DESCRIPTION:

1. See Plans for Infill Panel option required.

TABLE 2 - CHAIN-LINK PANEL COMPONENT MATE					
COMPONENT	ASTM	COMPONENT INFORMATION			
Chain-Link Fence Fabric (2" mesh with	A 392	Zinc-Coated Steel - No. 9 gage (coated wire diameter), Class 2 Coating			
wisted bottom and nuckled top selvage)	A 491	Aluminum-Coated Steel – No. 9 gage (coated wire diameter)			
, ,	F 668	Polyvinyl Chloride (PVC) Coated Steel - No. 9 gage Zinc-Coated Wire (metallic-coated core wire diameter) ~ See Plans for specified color of PVC.			
Tie Wires	F 626	Zinc-Coated Steel Wire - No. 9 gage with coating to match Chain-Link Fence Fabric.			
Tension Bars	F 626	$rac{3}{16}$ " (Min. thickness) x $rac{3}{4}$ " (Min. width) x 2'–3' (Min. height) Steel Bars			
Miscellaneous Fence Components	F 626	Zinc-Coated Steel			

CHAIN-LINK PANEL NOTE:

Chain-Link Fence Fabric shall be continuous along limits of railing. Splicing of Chain-Link panels using Tension Bars at 20'-0" minimum increments is permitted.

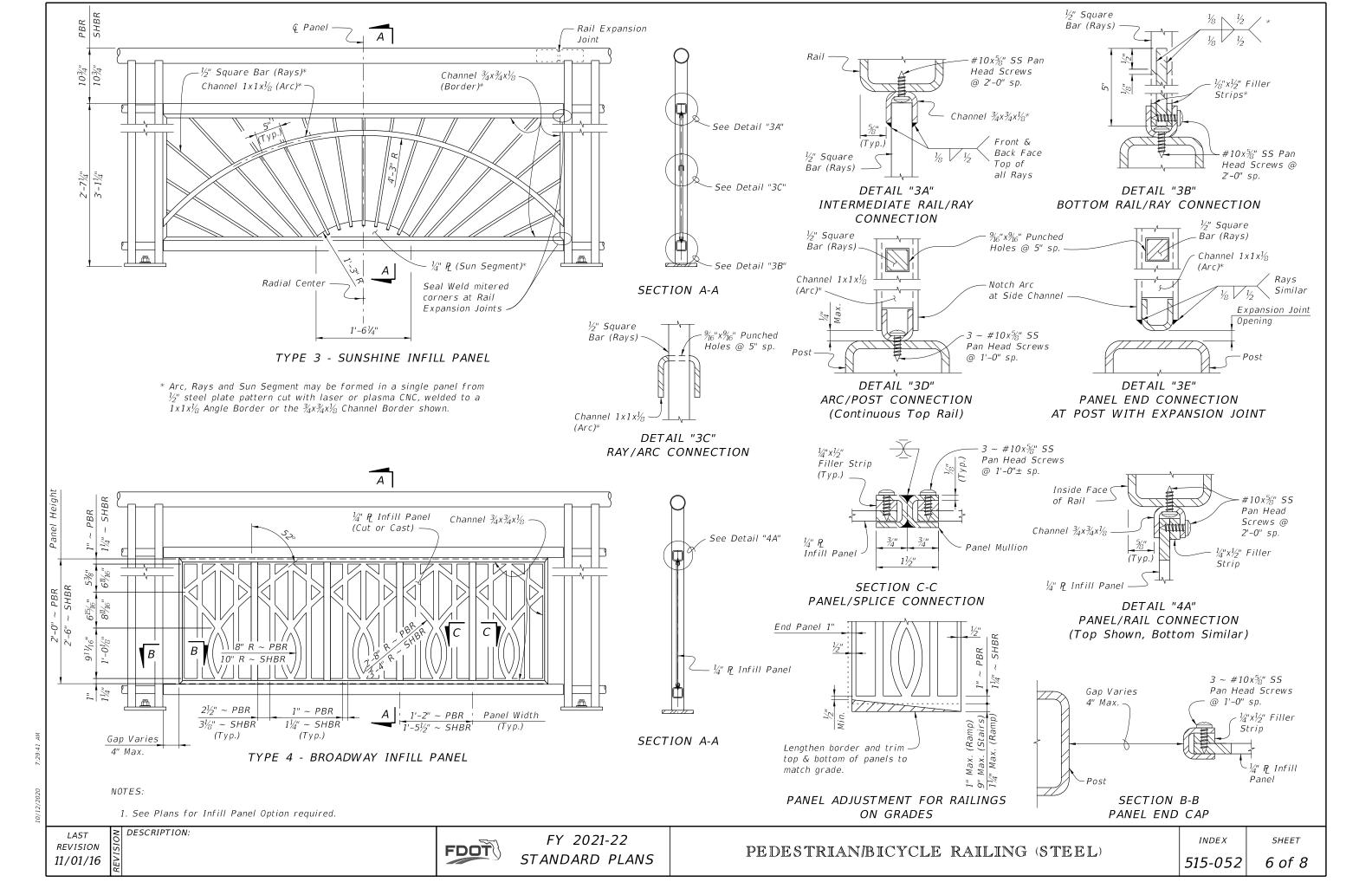
REVISION 11/01/16

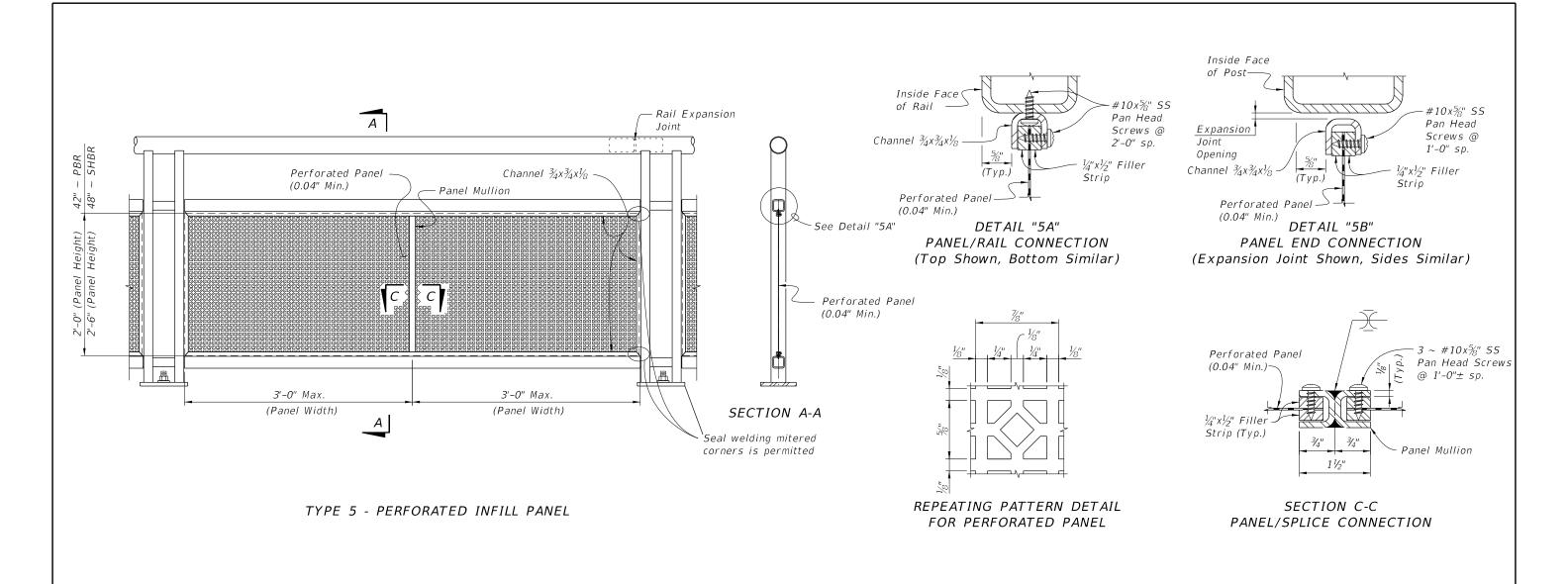
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FY 2021-22 STANDARD PLANS

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SHEET 5 of 8





NOTES:

1. See Plans for Infill Panel Type required.

DESCRIPTION: REVISION 11/01/16

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