

**AMENDMENT No. 7
TO THE PROFESSIONAL
ENGINEERING SERVICES AGREEMENT
BETWEEN
THE CITY OF MIAMI BEACH, FLORIDA
AND
RIBBECK ENGINEERING, INC.
DATED July 26, 2016**

**FOR THE PROVISION OF ADDITIONAL ENGINEERING SERVICES FOR
THE INDIAN CREEK DRIVE /STATE ROAD (SR) A1A, 26 STREET TO
41 STREET- FLOOD MITIGATION PROJECT IN THE AMOUNT OF
\$68,500.00**

This Amendment No. 7 to the Agreement is made and entered this ____ day of _____, 2022, by and between the CITY OF MIAMI BEACH, a municipal corporation existing under the laws of the State of Florida (the "City"), having its principal offices at 1700 Convention Center Drive, Miami Beach, Florida 33139, and Ribbeck Engineering Inc., a Florida Corporation having its principal office at 14335 SW 120 St. #205, Miami, Florida 33146 (the "Consultant").

RECITALS

WHEREAS, On March 9, 2016, the Mayor and City Commission adopted Resolution 2016-29332 approving a Department Funded Agreement (DFA) between the City and the Florida Department of Transportation (FDOT) for the cost sharing of a construction project on Indian Creek Drive from 26th to 41st Streets; and

WHEREAS, On June 8, 2016, the Mayor and City Commission adopted Resolution 2016-29456, approving the award of a professional services agreement to Ribbeck Engineering, Inc., in the total amount of \$407,851, to develop the Design Criteria Package (DCP) and conceptual plans for approximately 0.85 miles of Indian Creek Drive; and

WHEREAS, the "Interim" Phase construction for the underground drainage component, including drainage pipes ranging in size up to 72 inches in diameter, drainage structures, 24-inch diameter storm drainage pipes along the side streets, the pump station structure and roadway drainage system is now substantially completed; and

WHEREAS, on April 26, 2017, the Mayor and City Commission adopted Resolution 2017-29839, authorizing the negotiation of Amendment No. 1 to the Professional Services Agreement with Ribbeck Engineering, Inc., in the amount of \$863,171.92 plus a \$86,317.19 contingency, for a total amount of \$949,489.11, to prepare a set of "Interim" construction plans from 25th to 26th Streets, and 26th to 41st Streets, including side streets along the entire project limits; and

WHEREAS, on October 18, 2017, the Mayor and City Commission adopted Resolution 2017-30070, authorizing the negotiation of Amendment No. 2 to the Professional Services Agreement with Ribbeck Engineering, Inc., in the amount of \$1,056,347.77, plus a \$158,452.17 owner's contingency of fifteen percent (15%), for a total amount of \$1,214,799.94, to complete the "Ultimate" Phase final signed and sealed construction plans for the entire project limits; and

WHEREAS, On October 30, 2018, the Mayor and City Commission adopted Resolution 2018-30547, authorizing Amendment No.3 to the Professional Services Agreement with Ribbeck Engineering, Inc., in the amount of \$308,364.46, plus a ten percent (10%) owners contingency in

the amount of \$30,836.05, for a total of \$339,196.50; and

WHEREAS, on September 11, 2019, the Mayor and City Commission adopted Resolution 2019-30943, authorizing Amendment No.4 to the Professional Services Agreement with Ribbeck Engineering, Inc., in the amount of \$383,670.00; and

WHEREAS, on June 24, 2020, the Mayor and City Commission adopted Resolution 2019-31292, authorizing Amendment No.5 to the Professional Services Agreement with Ribbeck Engineering, Inc., in the amount of \$350,270.73; and

WHEREAS, on July 28, 2021, the Mayor and City Commission adopted Resolution 2021-31792, authorizing Amendment No. 6 to the Professional Services Agreement with Ribbeck Engineering, Inc., in the amount of \$125,541.19; and

WHEREAS, community representatives have requested the incorporation of a protected bicycle lane through the replacement of the bike lane delineators (the vertical plastic poles) with a modular segregation system (Zicla Zipper) and associated pavement markings; and

WHEREAS, on May 19, 2022, Ribbeck Engineering Inc. submitted a cost proposal for Amendment No. 7 to the Agreement in the amount of \$68,500, to provide additional engineering services for the Zicla Zipper System as a bike lane separator; and

WHEREAS, this amendment No 7 in the amount of \$68,500, for analysis, design and post design services for the Zicla Zipper bike lane separator has been reviewed by staff and was found to be fair and reasonable.

WHEREAS, this Amendment No. 7, will bring the total contract amount to \$3,839,318.48 and

NOW, THEREFORE, the parties hereto, and in consideration of the mutual promises, covenants, agreements, terms, and conditions herein contained, and other good and valuable consideration, the respect and adequacy are hereby acknowledged, do agree as follows:

1. ABOVE RECITALS

The above recitals are true and correct and are incorporated as a part of this Amendment No. 7.

2. MODIFICATIONS

(a) The Agreement is amended, as provided herein and in Exhibit "A" attached hereto; and

(b) In consideration for the services to be performed under this Amendment No. 7, City shall pay Consultant the not-to-exceed amount of \$68,500.00, increasing the agreement amount to \$3,839,318.48, as provided in Exhibit "A", attached hereto.

3. OTHER PROVISIONS.

All other provisions of the Agreement, as amended, are unchanged and shall remain in full force and effect.

4. RATIFICATION

The City and Consultant ratify the terms of the Agreement, as amended by this Amendment No. 7.

IN WITNESS WHEREOF, the parties hereto have caused this Amendment No. 7 to be executed in their names by their duly authorized officials as of the date first set forth above.

ATTEST:

CITY OF MIAMI BEACH, FLORIDA

Rafael E. Granado
City Clerk

Dan Gelber
Mayor

ATTEST:

CONSULTANT:
RIBBECK ENGINEERING, INC.

Secretary

Principal

Print Name

Print Name

May 31, 2022

Mina Samadi, PE, LEED, AP
Senior Capital Projects Coordinator
City of Miami Beach
Capital Improvements Projects (CIP)
1700 Convention Center Drive
Miami Beach, FL 33139



RIBBECK
Engineering, Inc.

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E.I.No. 26-0460404
14335 SW 120th St., Suite 205,
Miami, FL 33186
cribbeck@gmail.com
Cel: 305-319-1397
Phone: 305-383-5909
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Re: **Zicla Zipper Roadway Analysis & Design Fee Proposal**
SR A1A/Indian Creek Drive
Pilot Project – Zicla Zipper Implementation along Indian Creek Drive
From North of 26th Street to 41st Street

Dear Mina,

In response to your request, Ribbeck Engineering, Inc. is pleased to submit this fee proposal to provide engineering services to conduct roadway analysis and design for the Zicla Zipper for your review and approval. The scope of the work included under this new amendment includes the following task items based on implementing the Zicla Zipper and pavement markings only:

1. Coordination for key design elements with the City of Miami Beach such as spacing and limits.
2. Conducting an Auto Turn analysis along the entire corridor to assess potential impacts due to the inner lane width reduction from 11 to 10-feet. Vehicle turning paths and swept path maneuvers will be simulated at every side-street intersection for a total of fifteen (15) intersections, using the Auto Turn swept path analysis software. This analysis is required to verify safety and adequacy of large type vehicles traffic from and to every intersection along the corridor. An Auto Turn analysis design documentation report will be prepared and submitted to FDOT for review and approval.
3. Conducting Intersection Sight Triangle Analysis and updating the design variation accordingly.
4. Submitting and following up with FDOT through design variation review and approval process.
5. Coordinating Target Speed with FDOT.
6. Coordination Posted Speed with FDOT.
7. Updating the bike lane design variation accordingly.
8. Submitting and following up with FDOT through design variation review and approval process.
9. Submitting a Green Pavement Memo for approval.
10. Updating typical section package.
11. Submitting and following up with FDOT through typical section package review and approval process.
12. Conducting spread analysis to assess ponding at consecutive runs.
13. Computing the maximum consecutive run without openings.
14. Preparing Traffic Control analysis and plans.
15. Preparing quantities for Traffic Control Plans.
16. Conducting Signing and Pavement Marking (SPM) analysis and design to narrow the inside lane to 10' and widen the bicycle lane to 7'.

17. Estimating SPM item's quantities.
18. Coordinating and computing cost estimate with Zicla.
19. Submitting and following up with FDOT through revised SPM plans and new TCP plans review and approval process.
20. Preparing specification package.
21. Submitting and following up with FDOT through specification package review and approval process.
22. Coordinating and following up product design aspects with FDOT (local and central offices), manufacturer and the City of Miami Beach Capital Improvements, Transportation and Public Works.
23. We anticipate meetings with commissioners, City Officials , MBA, FDOT District 6 and FDOT Central Office.
24. Providing Post Design Services for the Zicla Zipper and pavement markings.

To complete the scope of this amendment, we are requesting \$68,500.00. The anticipated scope may include the Zicla bus bay Vectorial module but does not include any physical alternations or additions to the bus bays. Any revision to the roadway elements will be considered out of scope. Please keep in mind that this is a new product that will require extensive coordination with FDOT and manufacturer among research for different aspects of the design. As listed above, we anticipate multiple coordination meetings with FDOT and respective reviewers. Our staff hour estimate was broken down and detailed in the attached Exhibit A for your use. Once we receive the approval from the City for this fee proposal, we will move forward with the analysis, reports and plans.

Should you have any questions regarding this invoice payment or require additional information, please contact me at 305-319-1397.

Respectfully,

A handwritten signature in blue ink, appearing to read 'C. Ribbeck', is placed over a light yellow rectangular background.

Carlos F. Ribbeck, P.E.
President

EXHIBIT A

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INDIAN CREEK DRIVE DRAINAGE MITIGATION PROJECT FROM 25 ST TO 41 ST Zicla Zipper - Pilot Project 05/28/2022			
	Item Description		
	Meetings & Coordination	32	Hours
	Design Analysis, Plans and Documentations	360	Hours
	Post Design Services	31	Hours
	Total =	423	Hours
	Avg Hourly Rate	\$53.50	
	Overhead	163.76%	
	Operating Margin	38.50%	
	Facilities Capital Cost Money	0.767%	
	Cost (Hrs x Loaded Rate)	\$68,576.53	
	Total =	\$68,500.00	Lump Sum

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MEETINGS & COORDINATION					
Zicla Zipper - Pilot Project					
05/28/2022					
Item Number	Description	QTY	Hrs/unit	Hours	Remarks
1	City of Miami Beach	2	1	2	Spacing, Limits, and approach to intersection coordination
4,5,6,7,8,9,11,21	FDOT	7	2	14	Sight Distance Design Variation, Bike lane Design Variation, Typical Section, Tech Spec, Target Speed, Posted Speed, Green Pavement Memo, Spread Analysis
18	Zicla	2	1	2	Cost Estimate
16	FDOT	2	2	4	Review Process
22	FDOT	2	1	2	Misc Design aspect coordination with FDOT
23	City of Miami Beach & FDOT	4	2	8	Commissioners, City Officials, MBA, or Central Office including exhibits
			Total =	32	

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Design Analysis, Plans and Documentations					
Zicla Zipper - Pilot Project					
05/28/2022					
Item Number	Description	QTY	Hrs/unit	Hours	Remarks
1	Research and analysis	1	16	16	Research the product and analyze the layout, openings, and spacing.
2	AutoTurn	2	8	16	Autoturn of passenger vehicle and SU 30 turning on all side streets and along Indian Creek Drive
3	Intersection Sight Triangle Analysis	1	24	24	Analyze all intersection sight distances and update Design Variation
7	Bike Lane Design Variation	1	12	12	Provide new design variation for substandard width
9	Green Pavement Memo	1	6	6	Green Pavement Memo
10	Update Typical Section Package	1	8	8	
12	Spread Analysis	1	6	6	
13	Space required between Zipper Modules	1	4	4	
14	Traffic Control Analysis and plans	1	80	80	
15	TCP Quantities	1	16	16	
16	Signing and Pavement Marking Plans	1	120	120	
17	SPM Quantities	1	16	16	
18	Zicla Quantities and Cost estimate	2	6	12	
20	Spec Package and Tech Specs	1	24	24	
			Total =	360	

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Post Design Services				
Zicla Zipper - Pilot Project				
05/28/2022				
Description	QTY	Hrs/unit	Hours	Remarks
Weekly Coordination	8	1	8	Assume 2 months of Construction
RFI	5	1	5	Assume 1 to 2 RFIs per month for 3
Shop Drawings	2	1	2	Different types of Zicla
Revisions	1	16	16	Estimate 2 revisions for RDWY, 2 Drainage, 2 Signals and 1 Electrical, 1 Structures, 2 Lighting
		Total =	31	