#### **ARLINGTON COUNTY, VIRGINIA**

### AGREEMENT NO. 20-DES-RFP-031 AMENDMENT NUMBER 09

This <b>Amendment Number 09</b> is made on $\frac{8/4/2022}{}$	, and amends Agreement Number 20-DES-RFP
031 ("Main Agreement") dated September 22, 2020 be	tween Stantec Architecture, Inc. ("Contractor"
and the County Board of Arlington County, Virginia ("Co	unty").

The County and the Contractor agree to amend the Main Agreement as follows:

1. AMEND EXHIBIT E, STANTEC ARCHITECTURE, INC. BEST AND FINAL OFFER, DATED AUGUST 12, 2020, AS FOLLOWS:

The Contract Amount is increased by \$137,305, in accordance with Stantec's Professional Services Agreement Change Order No. 9 dated July 15, 2022, which is included as an attachment to this Amendment No.9. The total Contract Amount is changed from \$3,740,517 to \$3,877,822.

2. AMEND PARAGRAPH 4. CONTRACT TERM BY EXTENDING THE COMPLETION DATE OF THE CONSTRUCTION DOCUMENT PHASE BY SIX WEEKS AS FOLLOWS:

The completion of the Construction Documents Phase is hereby extended for an additional four months, in accordance with Stantec's Professional Services Agreement Change Order No. 9 dated July 15, 2022, which is included as an attachment to this Amendment No.9. The completion date for the Construction Documents Phase is changed from June 30, 2022 to December 30, 2022.

All other terms and conditions of the Main Agreement remain in effect.

WITNESS these signatures:

THE COUNTY BOARD OF ARLINGTON

COUNTY, VIRGINIA	·
AUTHORIZED  SIGNATURE:  Sy Gezachew 27FC198F4A6D475  NAME:	AUTHORIZED  SIGNATURE:  Greg Shippey  NAME:
TITLE: PROCUREMENT OFFICER	TITLE: Senior Associate, Senior Project Manager
DATE:	DATE:

STANTEC ARCHITECTURE, INC.



### PROFESSIONAL SERVICES AGREEMENT CHANGE ORDER

Change Order # Change Order No. 9 Date 15 July 2022

"Stantec" Stantec Architecture Inc.

Stantec Project # 218320411

3001 Washington Blvd., Suite 500, Arlington, VA 22201

Ph: (703) 485-8547

email: greg.shipley@stantec.com

"Client" Arlington County Government

Client Project # 20-DES--RFP-031

Facilities Design & Construction, 1400 N Uhle St., Suite 403, Arlington, VA 22201

Ph: (703) 228-7887

email: jmir@arlingtonva.us

Project Name and Location: Arlington Transit (ART) Operations and Maintenance Facility at 2629 and 2635

Shirlington Road

In accordance with the original Professional Services Agreement dated 22 September 2020 and Change Orders thereto, the Agreement changes as detailed below are hereby authorized.

Arlington County has requested additional services to take the Battery Electric Bus (BEB) design from 30% to 60% and coordinate with Dominion Energy on utility infrastructure. Stantec will provide coordination, 60% engineered design, and phasing support to accommodate the design and infrastructure required for BEB at the ART Operations and Maintenance Facility (AOMF) project. The project will be provided in two phases. Phase 1 will include underground structures and phase 2 will be the entire canopy and charging stations for 16 buses.

Charger-Energy Modeling: Stantec will update the power requirements for the charging system from what was simulated in the 30% Design to reflect the change in simultaneous charging station that would occur under different power capacity of the chargers (a maximum of three different configurations.)

Architectural: Management of the Design team as single point-of-contact. Coordination of design with Turner. Delivery of architectural construction documentation. Updated rendered imagery for the project.

Charging Infrastructure: Design, specify, and configure the BEB-charging system.

- a. coordinate specific charger power requirements on a per-bus and per-fleet basis as defined by charger-energy modeling
- b. determine appropriate charger-system power in relation to dispenser ratio per charger (such as 180 kW charger connected to three dispensers, 150 kW charger connected to two dispensers, 200 kW charger connected to four dispensers or other as appropriate)
- c. coordinate and validate electrical loads for charging system with energy modeling and electrical engineer, as required to meet bus-charging parameters and available utility power
- d. coordinate layout and location of charging equipment (charger cabinets and dispensers) with architect and electrical engineer, including impacts to vehicle circulation and impact protection
- e. prepare charger-system drawings including block-wiring diagram, charger-equipment plan and charger-equipment elevations; coordinate with electrical engineer as required

Electrical: Perform load calculations and design for new main feed switchgear and service subpanels. Stantec shall determine the number of simultaneous charging stations throughout the night as well as projected charging time for high-power charging to estimate the peak power requirements and charging load profile for the facility. Coordinate BEB transformer size and location with Dominion Energy. The Team will confirm the load analysis for how many buses can be simultaneously charged with existing power feeder line. Prepare specifications or procurement information for charging equipment for the first 16 bus charging spaces. Design of standby generator sized for initial 15 bus charging with space reserved for additional generators for full buildout.

### PROFESSIONAL SERVICES AGREEMENT CHANGE ORDER

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Develop Power Plan drawings depicting:

- a. new BEB feeder switchgear and subfeeder switchboards serving the BEB chargers
- b. feeders from the new Dominion Energy service point to the new main switchgear
- c. feeder(s) from new switchgear to the new switchboards and new subpanels
- d. circuits from new subpanels to new power cabinets
- e. circuits from power cabinets to gantry mounted pantographs
- f. new maintenance charger and circuit
- g. one line diagram
- h. panelboard schedule
- i. under canopy lighting

Civil (Timmons Group): Revisions to the Civil Engineering Permit Package to incorporate the charging station, duct banks, and other system requirements in the bus yard for permit review and approval. Timmons Group shall coordinate with Dominion Energy on the Phase 2 for the BEB design.

Electrical (GPI): Electrical design for the lighting circuitry and convenience receptacles for the battery electric bus (BEB) full design. Coordinate with the photovoltaic system vendor for conduit and site routing.

Structural (Ehlert Bryan): Include new BEB canopy structures over a majority of the bus paring areas to support hung equipment and potentially PV panels on top. The structures are expected to consist of open steel joists on steel framing that cantilevers at each end, supported by cantilevered steel columns on concrete piers. The column supports and provisions for concrete pads and/or striping and bollards to be concealed to allow bus movement.

Sustainability: Analysis of the impact of the BEB power system and associated energy draws on the current LEED scorecard.

Stantec will coordinate with the Photovoltaic Panel subcontractor who will be doing the photovoltaic design.

Total Agreement		\$ 3,877,822.00
Change Order Number	8	\$ 17,415.00
Change Order Number	7	\$ 7,800.00
Change Order Number	6	\$ 30,309.00
Change Order Number	5	\$ 175,935.00
Change Order Number	4	\$ 24,496.00
Change Order Number	3	\$ 46,144.00
Change Order Number	2	\$ 11,868.00
Change Order Number	1	\$ 3,162.00
Original agreement amount		\$ 3,423,388.00
Total fees this Change Order		\$ 137,305.00

Effect on Schedule: This will advance the BEB design to 60%. A future change order will be negotiated for final design and construction administration.

Payments shall be made in accordance with the original agreement terms. All other items and conditions of the original Agreement shall remain in full force and effect.



### PROFESSIONAL SERVICES AGREEMENT CHANGE ORDER

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ture Inc.	Arlington Count	ty Government
Greg Shipley, AIA, LEED AP BD+C Senior Associate, Senior Project Manager		John Mir Project Manager
Print Name and Title		Print Name and Title
Windi	Signature	
7/15/2022	Date Signed:	
	Senior Associate, Senior Project Manager Print Name and Title	Greg Shipley, AIA, LEED AP BD+C Senior Associate, Senior Project Manager Print Name and Title  Signature

Fee Proposal

Summary

Date: 7/15/2022

Company: Stantec Architecture, Inc.

Discipline: All Services

LABOR		Stantec ct Management Architecture)	Stantec (Lighting Design)						Stantec Stantec (Charging Equipment) Stantec ICT (low-voltage systems)				ICT (low-voltage		ICT (low-voltage		Stantec (Sustainability)		Total Hours / Professional Fee		
TASKS	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Hours Fee I		Fee	Hours	Fee	Hours	Fee					
Phase 1																					
Task 1: Design (60%)	106	\$ 17,758.00	11	\$ 1,925.00	90	\$ 14,070.00	123	\$ 21,737.00	68	\$ 12,324.00	6	\$ 1,002.00	23	\$ 3,849.00	427	\$ 72,665.00					
Subtotal: Phase 1	106	\$ 17,758.00	11	\$ 1,925.00	90	\$ 14,070.00	123	\$ 21,737.00	68	\$ 12,324.00	6	\$ 1,002.00	23	\$ 3,849.00	427	\$ 72,665.00					
STANTEC TOTAL: Phase 1 60% De	106	\$ 17,758.00	11	\$ 1,925.00	90	\$ 14,070.00	123	\$ 21,737.00	68	\$ 12,324.00	6	\$ 1,002.00	23	\$ 3,849.00	427	\$ 72,665.00					

EXPENSES (P	hase 3	)	
Other		\$	-
Mileage		\$	-
Airfare		\$	-
Per Diem		\$	-
Car Rental		\$	-
Parking		\$	-
Printing		\$	-
Postage		\$	-
Total		\$	-

Phase 1: Subconsul	Phase 1: Subconsultants									
Firm	Discipline		Fee	е						
Ehlert Bryan	Structural		\$	39,400.00						
GPI	Bldg MEP		\$	7,800.00						
Timmons Group	Civil		\$	17,440.00						
Phase 1: SUBS \$ 64 640 00										

PHASE 1 (Modeling and Design t	:o 6	0%)
TEAM STN FEE TOTAL:	\$	72,665.00
SUBCONSULTANT TOTAL:	\$	64,640.00
EXPENSES:	\$	-
SUBTOTAL PHASE 1 FEE:	\$	137,305.00

### Fee Proposal

Summary

Date: 7/15/2022

Company: Stantec Architecture, Inc.

Discipline: Project Management & Architecture

LABOR	Prin	Pr	Project Manager				chitect	PM A	Assista	nt Admin	Total Hours / Professional Fee				
	Level		L7 <b>Level</b>		14	Level	l 13 <b>L</b> e			Level		8			
	Rate	\$ 229.0	0 Rate	\$	173.00	Rate	ate \$ 167.00		Rate	ate \$					
TASKS	Hours	Fee	Hours		Fee	Hours		Fee	Hours		Fee	Hours	Fee		
Task 1: Design (60%)	2	\$ 458.0	0 42	\$	7,266.00	54	\$ 9,018.00		8	8 \$ 1,016.00		106	\$ 17,758.00		
	2	\$ 458.0	0 42	\$	7,266.00	54	\$	9,018.00	8 \$		8 \$ 1,016.0		1,016.00	106	\$ 17,758.00

EXPENSES		
Other	\$	-
Mileage	\$	-
Airfare	\$	-
Per Diem	\$	-
Car Rental	\$	-
Parking	\$	-
Printing	\$	-
Postage	\$	-
Total	\$	-

\$ 17,758.00

### Fee Proposal

Summary

Date: 7/15/2022

Company: Stantec Architecture, Inc.

Discipline: Lighting Design

LABOR	Lig	Lighting Principal			Lighting Principal Sr. Lighting Designer				Lighting Designer			Lighting Designer				QA	\/QC	Total Hours / Professional Fee		
	Level 16			Level 14			Level	Level 13 Level			rel 10 Level 1			15						
	Rate	\$	219.00	Rate	\$	173.00	Rate	\$	167.00	Rate	\$	143.00	Rate	\$	191.00					
TASKS	Hours		Fee	Hours		Fee	Hours		Fee	Hours		Fee	Hours		Fee	Hours	Fee			
Task 1: Design (60%)	1	. \$	219.00	6	\$	1,038.00	4	\$	668.00		\$	-		\$	-	11	\$ 1,925	.00		
	1	\$	219.00	6	\$	1,038.00	4	\$	668.00	0	\$	-	0	\$	-	11	\$ 1,925	.00		

EXPENSES	EXPENSES										
Other		\$	-								
Mileage		\$	-								
Airfare		\$	-								
Per Diem		\$	-								
Car Rental		\$	-								
Parking		\$	-								
Printing		\$	-								
Postage		\$	-								
Total		\$	-								

1,925.00

### Fee Proposal

Summary

Date: 7/15/2022

Company: Stantec Architecture, Inc.

Discipline: BEB Modeling

LABOR	Transit Advisory Team David Verbich		ZEB Specialist			Transit Advisory Consultant						Total Hours / Professional Fee		
	Level	13	Level		13	Level		10	Level					
	Rate	\$ 167.00	Rate	\$	167.00	Rate	\$	143.00	Rate					
TASKS	Hours	Fee	Hours		Fee	Hours		Fee	Hours	Fee		Hours		Fee
Task 1: Design (60%)	4	\$ 668.00	46	\$	7,682.00	40	\$	5,720.00		\$	-	90	\$	14,070.00
	4	\$ 668.00	46	\$	7,682.00	40	\$	5,720.00	0	\$	-	90	\$	14,070.00

EXPENSES		
Other	\$	-
Mileage	\$	-
Airfare	\$	-
Per Diem	\$	-
Car Rental	\$	-
Parking	\$	-
Printing	\$	-
Postage	\$	-
Total	\$	-

\$ 14,070.00

### Fee Proposal

Summary

Date: 7/15/2022

Company: Stantec Architecture, Inc.
Discipline: Electrical Engineering

LABOR	Ele	ctri	cal Principal	Ele	ctri	ical Engineer	Senior	Ele	ctrical Designer	Ad	min	Assistant	Total Hours / Professional Fee		
	Level		16	Level		13	Level		10	Level		8			
	Rate	\$	219.00	Rate	\$	167.00	Rate	\$	143.00	Rate	\$	127.00			
TASKS	Hours		Fee	Hours		Fee	Hours		Fee	Hours		Fee	Hours	Fee	
Task 1: Design (60%)	23	\$	5,037.00	52	\$	8,684.00	48	\$	8,016.00		\$	-	123	\$ 21,73	37.00
Design Development	6	\$	1,314.00	4	\$	668.00	2	\$	334.00		\$	-	12	\$ 2,3	316.00
Utility Coordination	4	\$	876.00	2	\$	334.00	3	\$	501.00		\$	-	9	\$ 1,7	711.00
BEB charging single line	2	\$	438.00	ε	\$	1,002.00	4	\$	668.00		\$	-	12	\$ 2,1	108.00
MV Switchboard design	2	\$	438.00	4	\$	668.00	4	\$	668.00		\$	-	10	\$ 1,7	774.00
Power Distribution design	2	\$	438.00	4	\$	668.00	4	\$	668.00		\$	-	10	\$ 1,7	774.00
Charger System Interface	2	\$	438.00	2	\$	334.00	3	\$	501.00		\$	-	7	\$ 1,2	273.00
Generator Design	2	\$	438.00	16	\$	2,672.00	20	\$	3,340.00		\$	-	38	\$ 6,4	450.00
Electrical details	2	\$	438.00	$\epsilon$	\$	1,002.00	6	\$	1,002.00		\$	-	14	\$ 2,4	442.00
Arc Flash study	1	\$	219.00	8	\$	1,336.00	2	\$	334.00		\$	-	11	\$ 1,8	889.00
	23	\$	5,037.00	52	\$	8,684.00	48	\$	8,016.00	0	\$	-	123	\$ 21,73	37.00

EXPENSES		
Other	\$	-
Mileage	\$	-
Airfare	\$	-
Per Diem	\$	-
Car Rental	\$	-
Parking	\$	-
Printing	\$	-
Postage	\$	-
Total	\$	-

\$ 21,737.00

### Fee Proposal

Summary

Date: 7/15/2022

Company: Stantec Architecture, Inc.
Discipline: Charging Equipment

LABOR	Principal (RG)		Project Engineer (FF)		BIN	BIM/Designer (RK)		Admin	Total Hours / Professional Fee	
	Level	17	Level	14	Level	10	Level	8		
	Rate	\$ 229.00	Rate	\$ 173.00	Rate	\$ 143.00	Rate	\$ 127.00		
TASKS	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee
Task 1: Design (60%)	24	\$ 5,496.00	20	\$ 3,460.00	20	\$ 2,860.00	4	\$ 508.00	68	\$ 12,324.00
	24	\$ 5,496.00	20	\$ 3,460.00	20	\$ 2,860.00	4	\$ 508.00	68	\$ 12,324.00

<b>EXPENSES</b>		
Other	\$	-
Mileage	\$	-
Airfare	\$	-
Per Diem	\$	-
Car Rental	\$	-
Parking	\$	-
Printing	\$	-
Postage	\$	-
Total	\$	-

\$ 12,324.00

### Fee Proposal

Summary

Date: 7/15/2022

Company: Stantec Architecture, Inc. Discipline: ICT (low-voltage systems)

LABOR		ICT PM		ICT PM		ICT Designer			Admin			Total Hours / Professional Fee			
	Level		16	Level		15	Level		13	Level 8					
	Rate	\$	219.00	Rate	\$	191.00	Rate	\$	167.00	Rate	\$	127.00			
TASKS	Hours		Fee	Hours		Fee	Hours		Fee	Hours		Fee	Hours		Fee
Task 1: Design (60%)		\$	-		\$	-	6	\$	1,002.00		\$	-	6	\$	1,002.00
	0	\$	-	0	\$	-	6	\$	1,002.00	0	\$	-	6	\$	1,002.00

<b>EXPENSES</b>		
Other	\$	-
Mileage	\$	-
Airfare	\$	-
Per Diem	\$	-
Car Rental	\$	-
Parking	\$	-
Printing	\$	-
Postage	\$	-
Total	\$	-

\$ 1,002.00

### Fee Proposal

Summary

Date: 7/15/2022

Company: Stantec Architecture, Inc.

Discipline: Sustainability

LABOR	Sustainability Principal		Sustainability Lead		Sustainability Support		Ad	min Assistant	Total Hours / Professional Fee		
	Level	15	Level	13	Level	10	Level	8			
	Rate	\$ 191.00	Rate	\$ 167.00	Rate	\$ 143.00	Rate	\$ 127.00			
TASKS	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	
Task 1: Design (60%)	2	\$ 382.00	20	\$ 3,340.00		\$ -	1	\$ 127.00	23	\$ 3,849.00	
	2	\$ 382.00	20	\$ 3,340.00	0	\$ -	1	\$ 127.00	23	\$ 3,849.00	

EXPENSES		
Other	\$	-
Mileage	\$	-
Airfare	\$	-
Per Diem	\$	-
Car Rental	\$	-
Parking	\$	-
Printing	\$	-
Postage	\$	-
Total	\$	-

\$ 3,849.00



20110 Ashbrook Place Suite 100 Ashburn, VA 20147 P 703.726.1342 F 703.726.1345 www.timmons.com

### **ADDITIONAL SERVICE NO. 3**

Client: Stantec Date: April 8, 2022
Contact: Greg Shipley Project Manager: Osvaldo Ramos
Phone No: 703.485.8547 Phone No.: 703.554.6719

Phone No: 703.861.8632 E-mail: osvaldo.ramos@timmons.com

E-mail: greg.shipley@stantec.com Project: 47032 AOMF

Description: BEB Infrastructure

Timmons Group (TG) has prepared this additional service proposal at the request of the Client. The additional service is required for coordination, planning, and final site plan design to accommodate the infrastructure required for battery electric buses.

#### Task E36: Final Layout of charging stations

TG will work with Stantec and the project design team to develop a final design demonstrating:

- the number and location of simultaneous charging stations to be supported.
- Final duct bank layout from charging infrastructure to bus charging locations.
- Locations for transformer(s), generator, and switchgear with least reduction of ART bus parking areas.

The final design(s) will be guided by the required design parameters of the charging station system as prepared by the project electrical engineer. TG will provide CADD drawings and pdfs of the exhibits to Stantec for presentation to the Client.

TG assumes all cost estimation will be completed by the project cost estimation team.

#### Task E38: Dominion Energy Phase 2 Coordination and Revisions to CEP Package

TG shall coordinate with Dominion Energy on the phase 2 for the BEB design. This work includes the phase 2 upgrades which is anticipated to be the pole replacements on Shirlington Road. TG Shall then revise the Civil Engineering Permit Package to incorporate the charging station, duct banks and other system requirements in the bus yard for permit review. Also, any other revisions to utilities as needed for the revised bus yard layout. The updated CEP will then be submitted to Arlington County Department of Environmental Services and Development Services Division. TG shall utilize the permit Arlington – ePlan process to submit plans for review and permit issuance and shall manage the site plan permitting for the project. This task includes the site plan submissions, comment review & responses and resubmissions until plan approval. All fees to be paid by Owner.



20110 Ashbrook Place Suite 100 Ashburn, VA 20147

P 703.726.1342 F 703.726.1345 www.timmons.com

### **ADDITIONAL SERVICE NO. 3**

Arlingto	on Regional Transit (ART)				
<u>Operat</u>	ions and Maintenance Facility				
Add Serv	ice #3 - BEB Infrastructure		<u>PM</u>	PE3	<u>PEI</u>
			<u>175</u>	<u>130</u>	<u>105</u>
Add Serv	ice 3	Fee			
TASK	Underground UGP and UGT				
E36	Final Layout of charging stations	\$7,670	8	24	30
E37	Dominon Energy Phase 2 Coordination and Revisions to CEP Package	\$17,440	28	48	60
	Sub Total	\$25,110			

PLEASE SIGN BELOW TO INDICATE YOUR APPROVAL AND RETURN WITHIN SEVEN (7) DAYS SUCH THAT THIS CHANGE ORDER MAY BE INCORPORATED INTO THE PROJECT WITHOUT DELAYING THE SCHEDULE AS NOTED ABOVE. PLEASE KEEP A COPY FOR YOUR RECORDS.

		Kamos	05/11/2022
CLIENT	Date	Timmons Group	Date



### **Authorization for ADDITIONAL Professional Services**

Project: Arlington County Transit (ART) Operations and

Maintenance Facility: BEB Full Design

Client: Stantec

Contact: Greg Shipley, AIA, LEED AP BD+C

From: Doug Brenner, PE

Proposal No.: 2019PS209 R2 AS3 2019PS209 R2 AS3 R1

Project No.: 2020307.00

Date: 04.08.2022 04.22.2022

No. of Pages: 1

Greenman-Pedersen, Inc. (GPI) is submitting for your confirmation a request for additional services for the above referenced project. All Terms and Conditions stipulated in the original contract 2019PS209R2, dated 07.23.2020 will apply to this change.

### GPI will provide the following additional services:

- Electrical design for the lighting circuitry and convenience receptacles for the battery electric bus (BEB) full design.
- Coordinate with photovoltaic system vendor (conduit & site routing)
- Attend virtual meetings/reviews

#### Compensation:

Based upon the above additional services and the original contract, we propose a lump sum fee of:

<del>\$ 9,300.00</del> \$7,800.00

We trust this agreement meets with your approval. Please indicate your acceptance by signing below and returning a copy of this Agreement. Work will proceed only after the receipt of the signed agreement. Through their signature, the client declares that they understand the enclosed Terms and Conditions and has discussed with GPI any or all details that might be unclear.

For Client

Sincerely,

For Greenman-Pederson Inc.

i oi oiceililaii-i caciseii, ilio		1 of Ollott.	
DeBure	04.22.2022		
Doug Brenner, PE	Date	Accepted by an Authorized Agent, Principal or Owner	Date
Senior Mechanical Engineer 8001 Braddock Road, Suite 200		Principal of Owner	
Springfield, VA 22151			
703.978.0100		Printed Name	
		Client Project Number	

Project: ART Bus O&M - AS3 Professional Services Fee Proposal MEP 4.22.2022



			Pro	ject		Senior									
Task / Hours	Pı	Principal		Manager		ngineer	Engineer		CAD		Administrative		Total Hours	Total Fee	
Construction Documents (100%)															
													0	\$	-
Electrical plans, calcs						32							32	\$	4,801.60
													0	\$	-
													0	\$	-
PV Coordination						10							10	\$	1,500.50
Reviews/meetings						10							10	\$	1,500.50
Construction Administration						10							10	\$	1,500.50
Total														\$	9,303.10
															\$7,800.00
Total Hours		0	(	)		62	0	)		0	0				
Rates	\$	191.71	\$	170.98	\$	150.05	\$ 1	128.41	\$	96.31	\$ 6	9.79			
Total Fee	\$	-	\$	-	\$	9,303	\$	-	\$	-	\$	-			



### AGREEMENT FOR ADDITIONAL SERVICES

**Date:** March 31, 2022

**Client:** Stantec Architecture

3001 Washington Boulevard, Suite 500

Arlington, VA 22201

Attn: Mr. Greg Shipley, AIA

**Project Name/Location:** ART – BEB Canopy Structures

EB#:

This is to confirm our recent discussion on this project.

### **Description of Additional Services:**

The owner is considering the addition of the infrastructure to support future Battery-Electric Buses (BEB) into the current design. Structurally, this would include new BEB canopy structures over a majority of the bus paring areas to support hung equipment and potentially PV panels on top. The structures are expected to consist of open steel joists on steel framing that cantilevers at each end, supported by cantilevered steel columns on concrete piers.

#### Fees:

Design and Drawings	\$ 24,500
Construction Administration	¢ 5 200
CONSTRUCTION AUTHINISTICATION	W J.ZUU

#### **Special Conditions:**

We will commence work upon receiving your authorization by executing and returning this agreement. This Additional Services Agreement is an addendum to our original Agreement and is subject to the Terms and Conditions contained therein.

Offered by:	Accepted by:							
Ehlert Bryan Consulting Engineers	(client)							
A. P. Sellin, PE	(signature)	(date)						
	(printed name/title)							
Wayne C. Bryan, PE   Thomas A. Bouffard, F	PE   Jason B. Sparrow, PE, SE   Ale	exander P. Salmin, PE						

William R. McLain, PE | Benjamin T. Gunden, PE, SE

ADDITIONAL SERVICES		EHLERT BRYAN								
Position Billing Rate		Senior Project Manager	Project Manager	Assistant Project Manager	Design Engineer	Senior BIM Technician	RIM	Clerical		
	\$ 260.00	\$ 210.00	\$ 180.00	\$ 165.00	\$ 150.00	\$ 150.00	\$ 125.00	\$ 105.00	TOTAL	TOTAL
									Hours	\$/Phase
BEB CANOPY STRUCTURES DESIGN	10		60		40	24	12		146	
	\$2,600.00	\$0.00	\$10,800.00	\$0.00	\$6,000.00	\$3,600.00	\$1,500.00	\$0.00		\$24,500
BEB CANOPY STRUCTURES CA	2		16		12				30	
	\$520.00	\$0.00	\$2,880.00	\$0.00	\$1,800.00	\$0.00	\$0.00	\$0.00		\$5,200
										1
TOTALS									176	29,700



### AGREEMENT FOR ADDITIONAL SERVICES

**Date:** May 23, 2022

**Client:** Stantec Architecture

3001 Washington Boulevard, Suite 500

Arlington, VA 22201 Mr. Greg Shipley, AIA

Project Name/Location: ART – Parking Facility Changes

**EB#:** 2097001.B0.V

Attn:

This is to confirm our recent discussion or direction on this project.

### **Description of Additional Services:**

It is our understanding that upon zoning review during permitting, the Parking Facility was required to move farther away from the property line. This causes the building to encroach on the existing culvert. Therefore, the design team along with the Owner agreed to decrease the footprint area of the Parking Facility to avoid conflict with the existing culvert, thereby modifying the structure in the following ways:

- The chamfered corner near grid line intersection PF/P4 was increased.
  - The slab edges, perimeter beams, and column near PF/P4 will be moved to align with the architecture.
  - The openings in the precast perimeter walls were changed at the south, east, and skewed walls.
- The elevator and Stair P1 shafts were moved west.
  - Framing along grid line P5 will be moved accordingly.
  - Beams along grid lines PA and PB will be re-analyzed.
  - Beams framing the stair opening will be revised to account for the modified configuration.
  - Openings in precast walls are to be adjusted.
  - Shear wall designs throughout the Parking Garage will be reviewed for rebalanced lateral load distribution.
- Plan layouts will be reviewed for effects on structural design.
- It is our understanding that allowances for future construction are unchanged.

We will revise our structural design and update our drawings for the changes described above.

Fees: \$14,900

Wayne C. Bryan, PE | Thomas A. Bouffard, PE | Jason B. Sparrow, PE, SE | Alexander P. Salmin, PE William R. McLain, PE | Benjamin T. Gunden, PE, SE

We have received verbal authorization to proceed	ed:	
By: Gabriel Hohag	Date: 05/20/2022	
We have commenced work based on this ve agreement.	erbal authorization. Please execute and	return this
This Additional Services Agreement is an adder Standard Terms and Conditions contained there		ject to the
Offered by:	Accepted by:	
Ehlert Bryan Consulting Engineers	(client)	
Andrew T. Schon, PE	(signature)	(date)
	(printed name/title)	CF6-12/14