

**ARLINGTON COUNTY, VIRGINIA
AGREEMENT No. 20-110-9-6**

AMENDMENT NUMBER 6

This **Amendment Number 6** is made on 9/28/2022 by the County and amends Agreement No. 20-110-9-6 dated January 14, 2020 made between **Ardent Company, LLC** ("Contractor") and the County Board of Arlington County, Virginia ("County").

The County and the Contractor amend the Agreement as follows:

- 1. REVISE EXHIBIT C – PRICE SCHEDULE TO INCLUDE CHANGE ORDERS (CO) 12 PER ATTACHMENT N** with a total amount of \$222,839.95

Total Construction Cost is hereby increased to \$5,632,653.42

2. Revise Contract Completion Date from September 30, 2022 to November 30, 2022 as a result of CO12 per Attachment N.

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

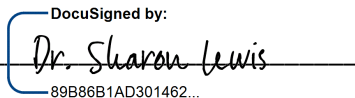
WITNESS these signatures:

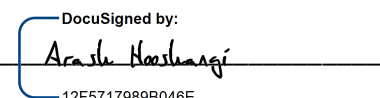
THE COUNTY BOARD OF ARLINGTON
COUNTY, VIRGINIA

ARDENT COMPANY, LLC

PRINT: Dr. Sharon Lewis

PRINT: Arash Hooshangi

SIGNATURE: 
89B86B1AD301462...

SIGNATURE: 
12F5717989B046E...

TITLE: Purchasing Agent

TITLE: Managing Director

DATE: 9/28/2022

DATE: 9/27/2022

CO 12 Backup Documentation

CO 12 Includes:

- **PCO 25 – Add eight (8) new items: Asphalt Price Escalation; Flag Sign Relocation; Concrete Fill Behind Bank of America Stairs; Curb Ramp (CR) No. 3 Modification; Planter 1-4 Core-Drilling for Drainage; Planter 9-10 Tree Trimming; Additional Work @ Various Locations; and Non-compensable Time Extension.**

- Section A. Memorandum of Negotiations**
- Section B. Itemized Final Negotiation Breakdown (PCO 25)**
- Section C. Pencil Copy (working) Markups for Each Party's Estimate (PCO 25)**
- Section D. Original Party Estimates (PCO 25)**
- Section E. Current Quotes from Vendors & Backup (PCO 25)**
- Section F. Attachment A**
- Section G. Backup Documentation**

Section A. Memorandum of Negotiations



**Ballston-MU Station Area Improvements Project
MEMORANDUM OF NEGOTIATIONS**

CHANGE ORDER No. 12 – Add eight (8) new items: Asphalt Price Escalation; Flag Sign Relocation; Concrete Fill Behind Bank of America Stairs; Curb Ramp (CR) No. 3 Modification; Planter 1-4 Core-Drilling for Drainage; Planter 9-10 Tree Trimming; Additional Work @ Various Locations; and Non-compensable Time Extension.

CONTRACT No: 20-110-9-6

DATE: 09/15/22

1. **PROJECT:** Ballston-MU Station Area Improvements Project
2. **REASON FOR CHANGE ORDER:** See Remarks below.
3. **ARLINGTON COUNTY ESTIMATE (ACE):**

Amount:	\$208,264.95	Date: 09/19/22
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4. **CONTRACTOR'S PROPOSAL (CP):**

Amount:	\$243,407.95	Date: 09/15/22
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5. **NEGOTIATIONS:**

Amount:	New Items (8) :	\$222,839.95	Date: 09/20/22
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6. **REMARKS:**

Item No. 1 (PCO 25) – Asphalt Price Escalation (New Item):

- Reason for Change Order: Due to project delays outside of Ardent's control and documented in previous COs, the project has extended beyond the original completion date of 11/14/21 to the current completion date of 9/30/22 (per CO 10). Building material prices have soared over the last year, particularly for raw materials such as timber, plastics, asphalt and steel, and supply chain disruptions, due to the COVID crisis, decreased the supply of building materials because output and construction remained strong during the pandemic which in turn resulted in shortages and price hikes. Because of this Ardent hereby requests to recover material cost increases for asphalt to perform full-depth asphalt replacement at N. Stuart St. and N. Stafford St.
- Negotiation Recap held 09/20/21: Vivek Thukral (Sr. PM) and Bijay Subedi (PM) representing Ardent; Alfonso Ronca (PM), and Sekander Salihi (RE) representing Arlington County met virtually, and Ardent presented its Contractor Proposal (CP) = \$2,651.00 LS for this new item.

The parties discussed the specifics of this claim in order to ensure there was a mutual understanding of costs. Both parties negotiated and acknowledged the following:

- (1) Original bid and current vendor quotes would be used to support the request for the material (asphalt) cost difference which STV/County determines to be legitimate.

Based on these acknowledgements the parties agreed that a negotiation was not necessary and that Ardent is entitled to recover these costs due to work performed beyond the original contract end date. As such, both parties agreed to the cost for Asphalt Price Escalation as **\$2,651.00 LS.**

Item No. 2 (PCO 25) – Flag Sign Relocation (New Item):

- Reason for Change Order: Ardent excavated and formed flag sign foundations including reinforcement per the N. Stafford St. redesign package; however, the County Construction Manager, Mark Mainardi, expressed concerns with their proximity to the bus passenger landing zone and directed Ardent to move these foundations north of the landing zone to maximize the space / minimize obstructions for passengers. A price proposal was requested from Ardent to compensate for this new item.
- Negotiation Recap: Negotiation Recap held 09/20/21: Vivek Thukral (Sr. PM) and Bijay Subedi (PM) representing Ardent; Alfonso Ronca (PM), and Sekander Salihi (RE) representing Arlington County met virtually, and presented each party's estimate for this new item: Arlington County Estimate (ACE) = \$745.00 EA; Contractor's Proposal (CP) = \$779.00 EA.

The parties discussed the specifics of this claim in order to ensure there was a mutual understanding of costs. Both parties negotiated and acknowledged the following:

- (1) The ACE and CP agreed on the labor and equipment needed for the work.
- (2) The CP inadvertently added \$34.00 in extra cost (spreadsheet error).

Based on these acknowledgements, both parties agreed to use the ACE and arrived at a unit price of **\$745.00 EA.**

Item No. 3 (PCO 25) – Concrete Fill Behind Bank of America Stairs (New Item):

- Reason for Change Order: To eliminate puddling near the BOA storefront areas after rain, building management requested concrete be used to fill existing brick enclosures and openings and sloped to carry water away to which the County agreed. As a result, Ardent was requested to submit a price proposal for required demolition and concrete fill related to this new item .
- Negotiation Recap: Held 09/20/22: Bijay Subedi (PM) and Vivek Thukral (Sr. PM) representing Ardent (Contractor); Alfonso Ronca (PM) and Sekander Salihi (RE) representing Arlington County met virtually and presented each party's estimate for this new item: Arlington County Estimate (ACE) = \$1,447.00 LS; Contractor's Proposal (CP) = \$8,094.00 LS.

The parties discussed the specifics of this change to ensure there was a mutual understanding of the scope of work involved. Both parties negotiated and acknowledged the following:

- (1) The CP presented 2 days for the work which was excessive.
- (2) The CP quantity for concrete = 6 CY was excessive.
- (3) The CP included \$350.00 for a concrete testing technician which was not needed.

Based on these acknowledgements, both parties agreed to decrease the time to 1 day, to reduce the quantity of concrete to 0.5 CY and to eliminate the cost of the concrete testing technician. As a result, the parties arrived at a unit price of **\$2,894.00 LS.**

Item No. 4 (PCO 25) – Curb Ramp (CR) No. 3 Modification (New Item):

- Reason for Change Order: During a field-check prior to constructing CR-3, it was determined that puddling would occur in sidewalk areas behind the curb if it were built per design because the new curb top elevation would be higher than the existing curb. After further coordination with the County's WSS department and in response to RFI No. 53, the designer (Parsons) eliminated the concrete sidewalk in the bump-out and replaced the impervious area there with a landscaping strip consisting of ornamental grasses and other landscaping features. This redesign would

provide required positive drainage and eliminate puddling. As a result, Ardent was requested to submit a price proposal for this new item.

- Negotiation Recap: Held 06/14/22: Held 09/20/22: Bijay Subedi (PM) and Vivek Thukral (Sr. PM) representing Ardent (Contractor); Alfonso Ronca (PM) and Sekander Salihi (RE) representing Arlington County met virtually and presented each party's estimate for this new item: Arlington County Estimate (ACE) = \$12,343.00 LS; Contractor's Proposal (CP) = \$17,884.00 LS.

The parties discussed the specifics of this change to ensure there was a mutual understanding of the scope of work involved. Both parties negotiated and acknowledged the following:

- (1) The ACE estimated 3 days' time for the work which was low.
- (2) The CP inadvertently calculated \$108.00 in extra cost for the sod.

Based on these acknowledgements, both parties agreed to the CP time of 5 days and agreed to use vendor quotes for materials. As a result, the parties arrived at a unit price of **\$17,557.00 LS.**

Item No. 5 (PCO 25) – Planter 1-4 Core-Drilling for Drainage (New Item):

- Reason for Change Order: Upon installation of Planters 1-4 and adjacent sidewalk along N. Stuart St., considerable water puddling occurred after rain events atop the sidewalk under Planter 1 and 2 benches facing east. In order to mitigate this issue and avoid slipping hazards during the winter season, the County directed Ardent to core drill drain holes through the planter pre-cast sections at all four (4) planters and install pipe connections to the existing planter underdrain piping. As a result, Ardent was requested to submit a cost proposal for this new item.
- Negotiation Recap: Held 09/20/22: Bijay Subedi (PM) and Vivek Thukral (Sr. PM) representing Ardent (Contractor); Alfonso Ronca (PM) and Sekander Salihi (RE) representing Arlington County met virtually and presented each party's estimate for this new item: Arlington County Estimate (ACE) = \$7,772.00 LS; Contractor's Proposal (CP) = \$18,328.00 LS.

The parties discussed the specifics of this change to ensure there was a mutual understanding of the scope of work involved. Both parties negotiated and acknowledged the following:

- (1) The CP estimated 12 hours' time for the work, which was excessive, specifically the time for removal and backfilling the planting soil.

Based on these acknowledgements, both parties agreed to decrease the time to 10 hours. As a result, the parties arrived at a unit price of \$3,899.00 EA for a total of **\$15,596.00** for the 4 planters.

Item No. 6 (PCO 25) – Planter 9-10 Tree Trimming (New Item):

- Reason for Change Order: The adjacent building manager requested the removal of existing trees @ Planters 9 and 10 to which the County obliged; however, the County arborist recommended only to trim dead branches instead of total removal. As a result, Ardent was requested to submit a cost proposal for this new item.
- Negotiation Recap: Held 06/14/22: Bijay Subedi (PM) and Vivek Thukral (Sr. PM) representing Ardent (Contractor); Alfonso Ronca (PM) and Sekander Salihi (RE) representing Arlington County met virtually and Ardent presented its Contractor's Proposal (CP) = \$1,980.00.

STV advised that a negotiation was not necessary, and that the County would honor the subcontractor quote and CP which it found to be fair and reasonable in the amount = **\$1,980.00 LS.**

Item No. 7 (PCO 25) – Additional Work @ Various Locations (New Item):

- Reason for Change Order: As a result of additional County-requested work, utility conflicts, needed field modifications, design conflicts and resulting revisions, the underestimation of Pay Item No. 110 and the overestimation of Pay Items 108 and 109, two (2) contract pay items (108 and 109) were decreased and eighteen (18) existing contract pay items were utilized (increased) to address the resultant works whereby Ardent agreed in good faith to use existing contract unit pricing.
- Negotiation Recap: Based on these acknowledgements a negotiation was not necessary, and Ardent will be compensated in accordance with Attachment A in the amount of **\$181,416.95 LS.**

Item No. 9 (PCO 25) – Non-compensable Time Extension (New Item):

- Reason for Claim: Due to additional project delays anticipated beyond the current contract end date of September 30, 2022, and outside of Ardent's control including the need to redesign CR-3 at the west side of N. Stuart St. and CR-8 at the SE corner of N. Stuart St. and 9th St, Ardent requested a non-compensable time extension to 11/30/22.

Based on these acknowledgements, the County agreed to grant the time extension to Ardent at no cost to the County, thereby establishing an additional project delay of 2 months (60 CDs / 41 WDs) and resulting in a new Contract end date of 11/30/22 with no cost.

Summary of Negotiations	Arlington County Estimate	Contractor's Proposal	Negotiated Price
Add 8 New Items	\$208,264.95	\$243,407.95	\$222,839.95

The negotiations of 09/20/22 resulted in all parties agreeing to the same unit price for eight (8) new items.

Based upon the findings, it is recommended that a change order be issued to Ardent for a net amount = **\$222,839.95** The following find the price to be fair and reasonable for the work involved.



 Arash Hooshangi, Ardent President

9/23/2022


 Date



 Sekander Salihi, EIT, STV Resident Engineer

9/23/2022

 Date



 Elizabeth R. McElhenny, Arl. Cty. Program Manager

9/23/22

 Date

Section B. Itemized Final Negotiation Breakdown (PCO 25)

ARDENT



Final Negotiation Copy, 09/20/22

Ballston-MU Station Area Improvements Project
Arlington County, VA

PCO-25 Flag Sign Relocation

Description of Change;

Per county representative instruction, flag sign footing was relocated to appropriate location.

Task Description	Quantity	Hours	Unit	Rate	Subtotals	Comments
LABOR						
Foreman	1.00	3.00	Hrs.	\$38.00	\$114.00	
Laborer (skilled)	2.00	3.00	Hrs.	\$23.00	\$138.00	
Laborer (unskilled)	1.00	3.00	Hrs.	\$22.00	\$66.00	
Operator	0.00		Hrs.	\$23.93	\$0.00	
Dump Truck Driver	0.00	0.00	Hrs.	\$20.34	\$0.00	
Other	0.00	0.00	Hrs.	\$50.00	\$0.00	
Subtotal Labor Base:					\$318.00	
Ind. Labor					15.15%	\$48.18
Subtotal Labor:					\$366.18	
O&P					0.00%	\$0.00
TOTAL LABOR:					\$366.18	O&P is on Base + Indirect Labor

EQUIPMENT	Quantity	Hours	Unit	Rate	Subtotals	Comments
Excavator	0.00	0.00	Hrs.	\$124.64	\$0.00	
Backhoe	0.00	0.00	Hrs.	\$35.76	\$0.00	
Skid Steer	1.00	3.00	Hrs.	\$52.27	\$156.81	
Dump Truck (Large)	0.00	0.00	Hrs.	\$97.40	\$0.00	
Dump Truck (Small)	0.00	0.00	Hrs.	\$46.77	\$0.00	
Generator	0.00		Hrs.		\$0.00	
Concrete Saw	0.00	0.00	Hrs.	\$37.43	\$0.00	
Small Tools	0.00		Hrs.		\$0.00	
Service Truck	0.00	0.00	Hrs.	\$42.14	\$0.00	no service truck used
Pickup Truck	1.00	3.00	Hrs.	\$41.57	\$124.71	
Subtotal Equipment:					\$281.52	
O&P					0.00%	\$0.00
TOTAL EQUIPMENT:					\$281.52	

MATERIAL	Quantity	Supplier	Unit	Unit \$	Subtotals	Comments
Waterline Materials	0.00	see comment	LS	\$6,233.21	\$0.00	Supplier (Ferguson)
Trench Box	0.00	see comment	LS	\$877.00	\$0.00	Supplier (United Rental)
Stone	0.00		TON	\$21.50	\$0.00	
Dump Fee	0.00		EA	\$190.00	\$0.00	
Waterpumping	0.00	see comment	LS	\$618.29	\$0.00	Supplier (United Rental)
Forms and Miscellaneous	0.00		LS	\$100.00	\$0.00	
Mix Bagged Concrete	0.00		LS	\$100.00	\$0.00	
Concrete	0.00		CY	\$234.69	\$0.00	
Subtotal Material:					\$0.00	
Price +6% Tax					\$0.00	
O&P					0.00%	\$0.00
TOTAL MATERIAL					\$0.00	

SUBCONTRACTOR	Quant. (in Day)	Hrs	Unit \$	Subtotals	Comments
Stakes and Asbuilt	0.00		\$0.00	\$0.00	Sub (Liggie Surveys)
Tree Removal	0.00		\$0.00	\$0.00	
Trucking	0.00	0	\$0.00	\$0.00	Sub (Trucking)
Concrete and Compaction	0.00	0	\$0.00	\$0.00	Sub (Dulles Geotechnical)
Testing				\$0.00	
Subtotal Sub:				\$0.00	
O&P				10.00%	\$0.00
TOTAL SUB				\$0.00	

SUBTOTAL L+E+M:	\$647.70
Bond	15.00%
TOTAL L+E+M+S:	\$744.85
Roundup Each (Unit):	\$745.00
Total Each (Unit):	1
CO TOTAL:	\$ 745.00

Created by: S. Salihi, E.I.T, Resident Engineer,
Checked by: A. Ronca, PE, 09/20/22

1. Time for this task was considered during second contract extension.
2. Production rate and crew size was based on current crew size for similar work.
3. Trade rates reflect effective payroll rates, plus payroll burden.
4. 2022 Rental Rate Blue Book rates were referenced and considered in preparation of this estimate.

ARDENT



Final Negotiation Copy, 09/20/22

Ballston-MU Station Area Improvements Project
Arlington County, VA

PCO-25 Concrete Behind the Stairs

Description of Change;

Per building management requeste, bricks will be replaced with concrete on Bank Of America store front.

Task Description	Quantity	Hours	Unit	Rate	Subtotals	Comments
LABOR						
Foreman	1.00	8.00	Hrs.	\$38.00	\$304.00	
Laborer (skilled)	2.00	8.00	Hrs.	\$23.00	\$368.00	
Laborer (unskilled)	2.00	8.00	Hrs.	\$22.00	\$352.00	
Operator	0.00		Hrs.	\$23.93	\$0.00	
Dump Truck Driver	0.00	0.00	Hrs.	\$20.34	\$0.00	
Other	0.00	0.00	Hrs.	\$50.00	\$0.00	
				Subtotal Labor Base:	\$1,024.00	
				Ind. Labor	15.15%	\$155.14 15.15% payroll burden
				Subtotal Labor:	\$1,179.14	
				O&P	0.00%	\$0.00 O&P is on Base + Indirect Labor
				TOTAL LABOR	\$1,179.14	

EQUIPMENT	Quantity	Hours	Unit	Rate	Subtotals	Comments
Excavator	0.00	0.00	Hrs.	\$124.64	\$0.00	
Backhoe	0.00	0.00	Hrs.	\$35.76	\$0.00	
Skid Steer	1.00	8.00	Hrs.	\$52.27	\$418.16	
Dump Truck (Large)	0.00	0.00	Hrs.	\$97.40	\$0.00	
Dump Truck (Small)	0.00	0.00	Hrs.	\$46.77	\$0.00	
Generator	0.00		Hrs.		\$0.00	
Concrete Saw	0.00	0.00	Hrs.	\$37.43	\$0.00	
Small Tools	0.00		Hrs.		\$0.00	
Service Truck	1.00	8.00	Hrs.	\$42.14	\$337.12	no service truck used
Pickup Truck	1.00	8.00	Hrs.	\$41.57	\$332.56	
				Subtotal Equipment:	\$1,087.84	
				O&P	0.00%	\$0.00
				TOTAL EQUIPMENT:	\$1,087.84	

MATERIAL	Quantity	Supplier	Unit	Unit \$	Subtotals	Comments
Waterline Materials	0.00	see comment	LS	\$6,233.21	\$0.00	Supplier (Ferguson)
Trench Box	0.00	see comment	LS	\$877.00	\$0.00	Supplier (United Rental)
Stone	0.00		TON	\$21.50	\$0.00	
Dump Fee	0.00		EA	\$190.00	\$0.00	
Waterpumping	0.00	see comment	LS	\$618.29	\$0.00	Supplier (United Rental)
Forms and Miscellaneous	0.00		LS	\$100.00	\$0.00	
Mix Bagged Concrete	0.00		LS	\$100.00	\$0.00	
Concrete	1.00		CY	\$234.69	\$234.69	
				Subtotal Material:	\$234.69	
				Price +6% Tax	\$248.77	
				O&P	0.00%	\$0.00
				TOTAL MATERIAL	\$248.77	

SUBCONTRACTOR	Quant. (in Day)	Hrs	Unit \$	Subtotals	Comments	
Stakes and Asbuilt	0.00		\$0.00	\$0.00	Sub (Liggie Surverys)	
Tree Removal	0.00		\$0.00	\$0.00		
Trucking	0.00	0	\$0.00	\$0.00	Sub (Trucking)	
Concrete and Compaction	0.00	0	\$0.00	\$0.00	Sub (Dulles Geotechnical)	
Testing				\$0.00		
				Subtotal Sub:	\$0.00	
				O&P	10.00%	\$0.00
				TOTAL SUB	\$0.00	

SUBTOTAL L+E+M:	\$2,515.75
Bond	15.00%
TOTAL L+E+M+S:	\$2,893.11
Roundup Each (Unit):	\$2,894.00
Total Each (Unit):	1
CO TOTAL:	\$ 2,894.00

Created by: S. Salihi, E.I.T, Resident Engineer,
Checked by: A. Ronca, PE, 09/20/22

1. Production rate and crew size was based on current crew size for similar work.
2. Trade rates reflect effective payroll rates, plus payroll burden.
3. 2022 Rental Rate Blue Book rates were referenced and considered in preparation of this estimate.

ARDENT



Final Negotiation Copy, 09/20/22

Ballston-MU Station Area Improvements Project
Arlington County, VA

PCO-25 CR-3

Description of Change;

Due to slopping issue, CR-3 on N. Stuart St west side was redesigned and modified.

<u>Task Description</u>	<u>Quantity</u>	<u>Hours</u>	<u>Unit</u>	<u>Rate</u>	<u>Subtotals</u>	<u>Comments</u>
LABOR						
Foreman	1.00	40.00	Hrs.	\$38.00	\$1,520.00	
Laborer (skilled)	2.00	40.00	Hrs.	\$23.00	\$1,840.00	
Laborer (unskilled)	2.00	40.00	Hrs.	\$22.00	\$1,760.00	
Operator	0.00		Hrs.	\$23.93	\$0.00	
Dump Truck Driver	0.00	0.00	Hrs.	\$20.34	\$0.00	
Other	0.00	0.00	Hrs.	\$50.00	\$0.00	
					Subtotal Labor Base:	\$5,120.00
					Ind. Labor	15.15% \$775.68
					Subtotal Labor:	\$5,895.68
					O&P	0.00% \$0.00
					TOTAL LABOR:	\$5,895.68
						15.15% payroll burden
						O&P is on Base + Indirect Labor
EQUIPMENT						
	<u>Quantity</u>	<u>Hours</u>	<u>Unit</u>	<u>Rate</u>	<u>Subtotals</u>	
Excavator	0.00	0.00	Hrs.	\$124.64	\$0.00	
Backhoe	0.00	0.00	Hrs.	\$35.76	\$0.00	
Skid Steer	1.00	40.00	Hrs.	\$52.27	\$2,090.80	
Dump Truck (Large)	0.00	0.00	Hrs.	\$97.40	\$0.00	
Dump Truck (Small)	0.00	0.00	Hrs.	\$46.77	\$0.00	
Water Truck	1.00	8.00	Hrs.	\$46.83	\$374.64	
Concrete Saw	0.00	0.00	Hrs.	\$37.43	\$0.00	
Small Tools	0.00		Hrs.		\$0.00	
Service Truck	1.00	40.00	Hrs.	\$42.14	\$1,685.60	no service truck used
Pickup Truck	1.00	40.00	Hrs.	\$41.57	\$1,662.80	
					Subtotal Equipment:	\$5,813.84
					O&P	0.00% \$0.00
					TOTAL EQUIPMENT:	\$5,813.84
MATERIAL						
	<u>Quantity</u>	<u>Supplier</u>	<u>Unit</u>	<u>Unit \$</u>	<u>Subtotals</u>	
Sod	1.00	see comment	Pallet	\$390.00	\$390.00	Supplier (Ferguson)
Sod Delivery	1.00	see comment	LS	\$200.00	\$200.00	Supplier (United Rental)
PVC Pipe	70.00		LF	\$12.22	\$855.40	
Geotextile	1.00		Roll	\$620.00	\$620.00	
#2 Stone	21.00	see comment	TON	\$30.35	\$637.35	Supplier (United Rental)
Gabion stone include delivery	2.00		TON	\$41.35	\$82.70	
Landscaping Edge	10.00		EA	\$29.97	\$299.70	
					Subtotal Material:	\$3,085.15
					Price +6% Tax	\$3,270.26
					O&P	0.00% \$0.00
					TOTAL MATERIAL:	\$3,270.26
SUBCONTRACTOR						
	<u>Quant. (in Day)</u>	<u>Hrs</u>	<u>Unit \$</u>	<u>Subtotals</u>		
Stakes and Asbuilt	1.00		\$300.00	\$300.00		Sub (Liggie Surverys)
Tree Removal	0.00		\$0.00	\$0.00		
Trucking	0.00	0	\$0.00	\$0.00		Sub (Trucking)
Concrete and Compaction	0.00	0	\$0.00	\$0.00		Sub (Dulles Geotechnical)
Testing	0.00		\$0.00	\$0.00		
					Subtotal Sub:	\$300.00
					O&P	10.00% \$30.00
					TOTAL SUB:	\$330.00
					SUBTOTAL L+E+M:	\$14,979.78
					Bond	15.00% \$2,246.97
					TOTAL L+E+M+S:	\$17,556.75
					Roundup Each (Unit):	\$17,557.00
					Total Each (Unit):	1
					CO TOTAL:	\$ 17,557.00

Created by: S. Salihi, E.I.T, Resident Engineer,
Checked by: A. Ronca, PE, 09/20/22

1. Time for this was task was considered during second contract extension.
2. Production rate and crew size was based on current crew size for similar work.
3. Trade rates reflect effective payroll rates, plus payroll burden.
4. 2022 Rental Rate Blue Book rates were referenced and considered in preparation of this estimate.

ARDENT



Final Negotiation Copy, 09/20/22

Ballston-MU Station Area Improvements Project
Arlington County, VA

PCO-25 Core Drilling

Description of Change;

Due to water puddling issue, County suggested to core drill the prec-cast section of planter 1-4 under wooden benches.

Task Description	Quantity	Hours	Unit	Rate	Subtotals	Comments	
LABOR							
Foreman	1.00	10.00	Hrs.	\$38.00	\$380.00		
Laborer (skilled)	2.00	10.00	Hrs.	\$23.00	\$460.00		
Laborer (unskilled)	2.00	10.00	Hrs.	\$22.00	\$440.00		
Operator	0.00		Hrs.	\$23.93	\$0.00		
Dump Truck Driver	0.00	0.00	Hrs.	\$20.34	\$0.00		
Other	0.00	0.00	Hrs.	\$50.00	\$0.00		
Subtotal Labor Base:					\$1,280.00		
Ind. Labor					15.15%	\$193.92	15.15% payroll burden
Subtotal Labor:					\$1,473.92		
O&P					0.00%	\$0.00	O&P is on Base + Indirect Labor
TOTAL LABOR					\$1,473.92		

EQUIPMENT	Quantity	Hours	Unit	Rate	Subtotals	Comments
Excavator	0.00	0.00	Hrs.	\$124.64	\$0.00	
Backhoe	0.00	0.00	Hrs.	\$35.76	\$0.00	
Skid Steer	1.00	10.00	Hrs.	\$52.27	\$522.70	
Dump Truck (Large)	0.00	0.00	Hrs.	\$97.40	\$0.00	
Dump Truck (Small)	0.00	0.00	Hrs.	\$46.77	\$0.00	
Generator	0.00		Hrs.		\$0.00	
Concrete Saw	0.00	0.00	Hrs.	\$37.43	\$0.00	
Small Tools	0.00		Hrs.		\$0.00	
Service Truck	1.00	10.00	Hrs.	\$42.14	\$421.40	no service truck used
Pickup Truck	1.00	10.00	Hrs.	\$41.57	\$415.70	
Subtotal Equipment:					\$1,359.80	
O&P					0.00%	\$0.00
TOTAL EQUIPMENT:					\$1,359.80	

MATERIAL	Quantity	Supplier	Unit	Unit \$	Subtotals	Comments
4" Tee	3.00		EA	\$18.37	\$55.11	Supplier (Ferguson)
4" PVC Pipe	10.00		LF	\$5.96	\$59.60	Supplier (United Rental)
4" Coupling	1.00		EA	\$3.67	\$3.67	
Dump Fee	0.00		EA	\$190.00	\$0.00	
Waterpumping	0.00		LS	\$618.29	\$0.00	Supplier (United Rental)
Forms and Miscellaneous	0.00		LS	\$100.00	\$0.00	
Mix Bagged Concrete	0.00		LS	\$100.00	\$0.00	
Concrete	0.00		CY	\$234.69	\$0.00	
Subtotal Material:					\$118.38	
Price +6% Tax					\$125.48	
O&P					0.00%	\$0.00
TOTAL MATERIAL					\$125.48	

SUBCONTRACTOR	Quant. (in EA)	Hrs	Unit \$	Subtotals	Comments	
Core-Drilling	3.00		\$150.00	\$450.00	Sub (Liggie Surverys)	
Tree Removal	0.00		\$0.00	\$0.00		
Trucking	0.00	0	\$0.00	\$0.00	Sub (Trucking)	
Concrete and Compaction	0.00	0	\$0.00	\$0.00	Sub (Dulles Geotechnical)	
Testing				\$0.00		
Subtotal Sub:					\$450.00	
O&P					10.00%	\$45.00
TOTAL SUB					\$495.00	

SUBTOTAL L+E+M:	\$2,959.20
Bond	15.00%
TOTAL L+E+M+S:	\$3,898.08
Roundup Each (Unit):	\$3,899.00
Total Each (Unit):	4
CO TOTAL:	\$ 15,596.00

Created by: S. Salihi, E.I.T, Resident Engineer,
Checked by: A. Ronca, PE, 09/20/22

1. Production rate and crew size was based on current crew size for similar work.
2. Trade rates reflect effective payroll rates, plus payroll burden.
3. 2022 Rental Rate Blue Book rates were referenced and considered in preparation of this estimate.

ARDENT



Final Negotiation Copy, 09/20/22

Ballston-MU Station Area Improvements Project
Arlington County, VA

PCO-25 Planter 9 & 10 Tree Trimming

Description of Change;

Per County instruction, dead branches on planter 9 & 10 trees need to be trimmed.

Task Description	Quantity	Hours	Unit	Rate	Subtotals	Comments
LABOR						
Foreman	0.00	0.00	Hrs.	\$38.00	\$0.00	
Laborer (skilled)	0.00	0.00	Hrs.	\$23.00	\$0.00	
Laborer (unskilled)	0.00	0.00	Hrs.	\$22.00	\$0.00	
Operator	0.00		Hrs.	\$23.93	\$0.00	
Dump Truck Driver	0.00	0.00	Hrs.	\$20.34	\$0.00	
Other	0.00	0.00	Hrs.	\$50.00	\$0.00	
Subtotal Labor Base:					\$0.00	
Ind. Labor					15.15%	15.15% payroll burden
Subtotal Labor:					\$0.00	
O&P					0.00%	O&P is on Base + Indirect Labor
TOTAL LABOR					\$0.00	

EQUIPMENT	Quantity	Hours	Unit	Rate	Subtotals	Comments
Excavator	0.00	0.00	Hrs.	\$124.64	\$0.00	
Backhoe	0.00	0.00	Hrs.	\$35.76	\$0.00	
Skid Steer	1.00	0.00	Hrs.	\$52.27	\$0.00	
Dump Truck (Large)	0.00	0.00	Hrs.	\$97.40	\$0.00	
Dump Truck (Small)	0.00	0.00	Hrs.	\$46.77	\$0.00	
Generator	0.00		Hrs.		\$0.00	
Concrete Saw	0.00	0.00	Hrs.	\$37.43	\$0.00	
Small Tools	0.00		Hrs.		\$0.00	
Service Truck	0.00	0.00	Hrs.	\$42.14	\$0.00	no service truck used
Pickup Truck	1.00	0.00	Hrs.	\$41.57	\$0.00	
Subtotal Equipment:					\$0.00	
O&P					0.00%	
TOTAL EQUIPMENT:					\$0.00	

MATERIAL	Quantity	Supplier	Unit	Unit \$	Subtotals	Comments
Waterline Materials	0.00	see comment	LS	\$6,233.21	\$0.00	Supplier (Ferguson)
Trench Box	0.00	see comment	LS	\$877.00	\$0.00	Supplier (United Rental)
Stone	0.00		TON	\$21.50	\$0.00	
Dump Fee	0.00		EA	\$190.00	\$0.00	
Waterpumping	0.00	see comment	LS	\$618.29	\$0.00	Supplier (United Rental)
Forms and Miscellaneous	0.00		LS	\$100.00	\$0.00	
Mix Bagged Concrete	0.00		LS	\$100.00	\$0.00	
Concrete	0.00		CY	\$234.69	\$0.00	
Subtotal Material:					\$0.00	
Price +6% Tax					\$0.00	
O&P					0.00%	
TOTAL MATERIAL					\$0.00	

SUBCONTRACTOR	Quant. (in Day)	Hrs	Unit \$	Subtotals	Comments
Excel Tree Expert Co, Inc	1.00		\$1,800.00	\$1,800.00	Sub (Liggie Surverys)
Tree Removal	0.00		\$0.00	\$0.00	
Trucking	0.00	0	\$0.00	\$0.00	Sub (Trucking)
Concrete and Compaction	0.00	0	\$0.00	\$0.00	Sub (Dulles Geotechnical)
Testing				\$0.00	
	0.00		\$0.00	\$0.00	
Subtotal Sub:				\$1,800.00	
O&P				10.00%	\$180.00
TOTAL SUB				\$1,980.00	

SUBTOTAL L+E+M:		\$0.00
Bond		15.00%
TOTAL L+E+M+S:		\$1,980.00
Roundup Each (Unit):		\$1,980.00
Total Each (Unit):		1
CO TOTAL:		\$ 1,980.00

Created by: S. Salihi, E.I.T, Resident Engineer,
Checked by: A. Ronca, PE, 09/19/22

1. Production rate and crew size was based on current crew size for similar work.
2. Trade rates reflect effective payroll rates, plus payroll burden.
3. 2022 Rental Rate Blue Book rates were referenced and considered in preparation of this estimate.

Section C. Pencil Copy (working) Markups for Each Party's Estimate (PCO 25)

Cost Breakdown For Shifting Formwork of Flag Sign Foundation Near Stafford

Labor & Equipment Costs

Labor

Classification	Days	Hours (ST)	Hours (OT)	Rate (hr)	OT Rate (hr)	Total
Foreman	1	3		\$ 43.70		\$ 131.10
Laborer	1	3		\$ 26.48		\$ 79.45
Laborer	1	3		\$ 26.48		\$ 79.45
Laborer	1	3		\$ 25.33		\$ 76.00
Laborer	1	0		\$ 25.33		\$ -
Total						\$ 366.01

Equipment

Equipment	Days	Hours (Active)	Hours (Stby)	Rate (Active)	Rate (Stby)	Total
Pick up Truck, Silverado 1500	1	3	0	\$ 41.57		\$ 124.71
Skid Steer, John Deere 317	1	3	0	\$ 52.27		\$ 156.81
Total						\$ 281.52

Base Cost (Labor + Equipment + Material)	\$ 648.00
Base Cost Overhead and Profit (15%)	\$ 97.20
Subcontractor Cost Inc Overhead (10%)	\$ -
Total	\$ 745.20

648.00 + 97.20 = 745.20

AR/SS 9/20/22

ARDENT



STV/County Independent Cost Estimate, 09/19/22

Ballston-MU Station Area Improvements Project
Arlington County, VA
PCO-25 Flag Sign Relocation

Description of Change;

Per County representative, flag sign footing was relocated to appropriate location.

Task Description	Quantity	Hours	Unit	Rate	Subtotals	Comments
LABOR						
Foreman	1.00	3.00	Hrs.	\$38.00	\$114.00	
Laborer (skilled)	2.00	3.00	Hrs.	\$23.00	\$138.00	
Laborer (unskilled)	1.00	3.00	Hrs.	\$22.00	\$66.00	
Operator	0.00		Hrs.	\$23.93	\$0.00	
Dump Truck Driver	0.00	0.00	Hrs.	\$20.34	\$0.00	
Other	0.00	0.00	Hrs.	\$50.00	\$0.00	
Subtotal Labor Base:					\$318.00	
Ind. Labor 15.15%					\$48.18	15.15% payroll burden
Subtotal Labor:					\$366.18	
O&P 0.00%					\$0.00	O&P is on Base + Indirect Labor
TOTAL LABOR					\$366.18	

EQUIPMENT	Quantity	Hours	Unit	Rate	Subtotals	Comments
Excavator	0.00	0.00	Hrs.	\$124.64	\$0.00	
Backhoe	0.00	0.00	Hrs.	\$35.76	\$0.00	
Skid Steer	1.00	3.00	Hrs.	\$52.27	\$156.81	
Dump Truck (Large)	0.00	0.00	Hrs.	\$97.40	\$0.00	
Dump Truck (Small)	0.00	0.00	Hrs.	\$46.77	\$0.00	
Generator	0.00		Hrs.		\$0.00	
Concrete Saw	0.00	0.00	Hrs.	\$37.43	\$0.00	
Small Tools	0.00		Hrs.		\$0.00	
Service Truck	0.00	0.00	Hrs.	\$42.14	\$0.00	no service truck used
Pickup Truck	1.00	3.00	Hrs.	\$41.57	\$124.71	
Subtotal Equipment:					\$281.52	
O&P 0.00%					\$0.00	
TOTAL EQUIPMENT:					\$281.52	

MATERIAL	Quantity	Supplier	Unit	Unit \$	Subtotals	Comments
Waterline Materials	0.00	see comment	LS	\$6,233.21	\$0.00	Supplier (Ferguson)
Trench Box	0.00	see comment	LS	\$877.00	\$0.00	Supplier (United Rental)
Stone	0.00		TON	\$21.50	\$0.00	
Dump Fee	0.00		EA	\$190.00	\$0.00	
Waterpumping	0.00	see comment	LS	\$618.29	\$0.00	Supplier (United Rental)
Forms and Miscellaneous	0.00		LS	\$100.00	\$0.00	
Mix Bagged Concrete	0.00		LS	\$100.00	\$0.00	
Concrete	0.00		CY	\$234.69	\$0.00	
Subtotal Material:					\$0.00	
Price +6% Tax					\$0.00	
O&P 0.00%					\$0.00	
TOTAL MATERIAL					\$0.00	

SUBCONTRACTOR	Quant. (in Day)	Hrs	Unit \$	Subtotals	Comments
Stakes and Asbuilt	0.00		\$0.00	\$0.00	Sub (Liggie Surverys)
Tree Removal	0.00		\$0.00	\$0.00	
Trucking	0.00	0	\$0.00	\$0.00	Sub (Trucking)
Concrete and Compaction	0.00	0	\$0.00	\$0.00	Sub (Dulles Geotechnical)
Testing				\$0.00	
Subtotal Sub:					\$0.00
O&P 10.00%					\$0.00
TOTAL SUB					\$0.00

SUBTOTAL L+E+M:	\$647.70
Bond 15.00%	\$97.15
TOTAL L+E+M+S:	\$744.85
Roundup Each (Unit):	\$745.00
Total Each (Unit):	1
CO TOTAL:	\$ 745.00

Created by: S. Salihi, E.I.T, Resident Engineer,
Checked by: A. Ronca, PE, 09/19/22

1. Time for this was task was considered during second contract extension.
2. Production rate and crew size was based on current crew size for similar work.
3. Trade rates reflect effective payroll rates, plus payroll burden.
4. 2022 Rental Rate Blue Book rates were referenced and considered in preparation of this estimate.

Cost Breakdown For Concrete Pour Behind Stairs

Labor & Equipment Costs

Labor

Classification	Days	Hours (ST)	Hours (OT)	Rate (hr)	OT Rate (hr)	Total
Foreman	2 1	8		\$ 43.70		\$ 699.20
Laborer	2 1	8		\$ 26.48		\$ 423.75
Laborer	2 1	8		\$ 26.48		\$ 423.75
Laborer	2 1	8		\$ 25.33		\$ 405.33
Laborer	2 1	8		\$ 25.33		\$ 405.33
Total						\$ 2,357.36

Equipment

Equipment	Days	Hours (Active)	Hours (Stby)	Rate (Active)	Rate (Stby)	Total
Pick up Truck, Silverado 1500	2 1	8	0	\$ 41.57		\$ 665.12
Skid Steer, John Deere 317	2 1	8	0	\$ 52.27		\$ 836.32
Service Truck	2 1	8	0	\$ 42.14		\$ 674.24
Total						\$ 2,175.68

Material

Material	Supplier	Quantity	Unit	Unit Price	Unit Price + Tax	Total
Concrete		4 1	CY	\$ 234.69	\$ 356.77	\$ 2,140.63
Total						\$ 2,140.63

Subcontractor

Work	Sub Contractor	Day	Hours	Rate	Lump Sum	Total
Testing	Dulles Geotech	1		\$ 350.00		\$ 350.00
					Allowance (10%)	\$ 35.00
Total						\$ 385.00

No need for concrete Tech-

Base Cost (Labor + Equipment + Material)	\$ 6,674.00
Base Cost Overhead and Profit (15%)	\$ 1,001.10
Subcontractor Cost Inc Overhead (10%)	\$ 385.00
Total	\$ 8,094.00

CS / AR
9/20/22

ARDENT



STV/County Independent Cost Estimate, 09/19/22

Ballston-MU Station Area Improvements Project

Arlington County, VA

PCO-25 Concrete Behind the Stairs

Description of Change;

Per Building Management requestes, bricks will be replaced with concrete on Bank Of America store front.

Task Description	Quantity	Hours	Unit	Rate	Subtotals	Comments
LABOR						
Foreman	1.00	4.00	Hrs.	\$38.00	\$152.00	
Laborer (skilled)	2.00	4.00	Hrs.	\$23.00	\$184.00	
Laborer (unskilled)	2.00	4.00	Hrs.	\$22.00	\$176.00	
Operator	0.00		Hrs.	\$23.93	\$0.00	
Dump Truck Driver	0.00	0.00	Hrs.	\$20.34	\$0.00	
Other	0.00	0.00	Hrs.	\$50.00	\$0.00	
Subtotal Labor Base:					\$512.00	
Ind. Labor					15.15%	\$77.57 15.15% payroll burden
Subtotal Labor:					\$589.57	
O&P					0.00%	\$0.00 O&P is on Base + Indirect Labor
TOTAL LABOR					\$589.57	

EQUIPMENT	Quantity	Hours	Unit	Rate	Subtotals	Comments
Excavator	0.00	0.00	Hrs.	\$124.64	\$0.00	
Backhoe	0.00	0.00	Hrs.	\$35.76	\$0.00	
Skid Steer	1.00	4.00	Hrs.	\$52.27	\$209.08	
Dump Truck (Large)	0.00	0.00	Hrs.	\$97.40	\$0.00	
Dump Truck (Small)	0.00	0.00	Hrs.	\$46.77	\$0.00	
Generator	0.00		Hrs.		\$0.00	
Concrete Saw	0.00	0.00	Hrs.	\$37.43	\$0.00	
Small Tools	0.00		Hrs.		\$0.00	
Service Truck	1.00	4.00	Hrs.	\$42.14	\$168.56	no service truck used
Pickup Truck	1.00	4.00	Hrs.	\$41.57	\$166.28	
Subtotal Equipment:					\$543.92	
O&P					0.00%	\$0.00
TOTAL EQUIPMENT:					\$543.92	

MATERIAL	Quantity	Supplier	Unit	Unit \$	Subtotals	Comments
Waterline Materials	0.00	see comment	LS	\$6,233.21	\$0.00	Supplier (Ferguson)
Trench Box	0.00	see comment	LS	\$877.00	\$0.00	Supplier (United Rental)
Stone	0.00		TON	\$21.50	\$0.00	
Dump Fee	0.00		EA	\$190.00	\$0.00	
Waterpumping	0.00	see comment	LS	\$618.29	\$0.00	Supplier (United Rental)
Forms and Miscellaneous	0.00		LS	\$100.00	\$0.00	
Mix Bagged Concrete	0.00		LS	\$100.00	\$0.00	
Concrete	0.51		CY	\$234.69	\$117.35	
Subtotal Material:					\$117.35	
Price +6% Tax					\$124.39	
O&P					0.00%	\$0.00
TOTAL MATERIAL					\$124.39	

SUBCONTRACTOR	Quant. (in Day)	Hrs	Unit \$	Subtotals	Comments	
Stakes and Asbuilt	0.00		\$0.00	\$0.00	Sub (Liggie Surverys)	
Tree Removal	0.00		\$0.00	\$0.00		
Trucking	0.00	0	\$0.00	\$0.00	Sub (Trucking)	
Concrete and Compaction	0.00	0	\$0.00	\$0.00	Sub (Dulles Geotechnical)	
Testing				\$0.00		
Subtotal Sub:					\$0.00	
O&P					10.00%	\$0.00
TOTAL SUB					\$0.00	

SUBTOTAL L+E+M:	\$4,257.87
Bond 15.00%	\$188.68
TOTAL L+E+M+S:	\$1,447.00
Roundup Each (Unit):	\$1,447.00
Total Each (Unit):	1
CO TOTAL:	\$ 1,447.00

Created by: S. Salihi, E.I.T, Resident Engineer,
Checked by: A. Ronca, PE, 09/19/22

1. Production rate and crew size was based on current crew size for similar work.
2. Trade rates reflect effective payroll rates, plus payroll burden.
3. 2022 Rental Rate Blue Book rates were referenced and considered in preparation of this estimate.

Cost Breakdown For CR-3

Labor & Equipment Costs

Labor

Classification	Days	Hours (ST)	Hours (OT)	Rate (hr)	OT Rate (hr)	Total
Foreman	5 ✓	8		\$ 43.70		\$ 1,748.00
Laborer	5 ✓	8		\$ 26.48		\$ 1,059.38
Laborer	5 ✓	8		\$ 26.48		\$ 1,059.38
Laborer	5 ✓	8		\$ 25.33		\$ 1,013.32
Laborer	5 ✓	8		\$ 25.33		\$ 1,013.32
Total						\$ 5,893.40

Equipment

Equipment	Days	Hours (Active)	Hours (Stby)	Rate (Active)	Rate (Stby)	Total
Pick up Truck, Silverado 1500	5 ✓	8	0	\$ 41.57		\$ 1,662.80
Skid Steer, John Deere 317	5 ✓	8	0	\$ 52.27		\$ 2,090.80
Water Truck	1 ✓	8	0	\$ 46.83		\$ 374.64
Service Truck	5 ✓	8	0	\$ 42.14		\$ 1,685.60
Total						\$ 5,813.84

Material

Material	Supplier	Quantity	Unit	Unit Price	Unit Price + Tax	Total
Sod		1	Pallet	\$ 390.00	\$ 521.40	\$ 521.40
Sod Delivery		1 ✓	LS	\$ 200.00	\$ 212.00	\$ 212.00
PVC Pipe		70 ✓	LF	\$ 12.22	\$ 12.95	\$ 906.72
Geotextile		1 ✓	Roll	\$ 620.00	\$ 657.20	\$ 657.20
#2 Stone		21 ✓	Ton	\$ 30.35	\$ 32.17	\$ 675.59
Gabion Stone, incl short delivery		2 ✓	Ton	\$ 41.35	\$ 43.83	\$ 237.66
Landscape Edging		10 ✓	EA	\$ 29.97	\$ 31.77	\$ 317.68
Total						\$ 3,528.26

390 x 1.46 = 413

Subcontractor

Work	Sub Contractor	Day	Hours	Rate	Lump Sum	Total
Surveying	Liggie	1			\$ 300.00	\$ 300.00
					Allowance (10%)	\$ 30.00
Total						\$ 330.00

Base Cost (Labor + Equipment + Material)	\$ 15,235.00
Base Cost Overhead and Profit (15%)	\$ 2,285.25
Subcontractor Cost Inc Overhead (10%)	\$ 330.00
Total	\$ 17,884.00

Additional Formwork 0.5 days
 PVC pipe with stone 2 days
 Core drill and patch 1 days
 Edging, Sod Installation 1 days
 Gabion stone placement 0.5 days

AR/SS
9/20/22

ARDENT



STV/County Independent Cost Estimate, 09/19/22

Ballston-MU Station Area Improvements Project
Arlington County, VA
PCO-25 CR-3

Description of Change;

Due to slopping issue, CR-3 on N. Stuart St west side was redesigned and modified.

Task Description	Quantity	Hours	Unit	Rate	Subtotals	Comments
LABOR						
Foreman	1.00	40	24.00 Hrs.	\$38.00	\$412.00	
Laborer (skilled)	2.00	40	24.00 Hrs.	\$23.00	\$1,164.00	
Laborer (unskilled)	2.00	40	24.00 Hrs.	\$22.00	\$1,056.00	
Operator	0.00			\$23.93	\$0.00	
Dump Truck Driver	0.00	0.00	Hrs.	\$20.34	\$0.00	
Other	0.00	0.00	Hrs.	\$50.00	\$0.00	
Subtotal Labor Base:					\$3,072.00	
Ind. Labor					15.15%	\$465.41 15.15% payroll burden
Subtotal Labor:					\$3,537.41	
O&P					0.00%	\$0.00 O&P is on Base + Indirect Labor
TOTAL LABOR					\$3,537.41	

EQUIPMENT	Quantity	Hours	Unit	Rate	Subtotals	Comments
Excavator	0.00	0.00	Hrs.	\$124.64	\$0.00	
Backhoe	0.00	0.00	Hrs.	\$35.76	\$0.00	
Skid Steer	1.00	40	24.00 Hrs.	\$52.27	\$1,254.48	
Dump Truck (Large)	0.00	0.00	Hrs.	\$97.40	\$0.00	
Dump Truck (Small)	0.00	0.00	Hrs.	\$46.77	\$0.00	
Water Truck	1.00	80	8.00 Hrs.	\$46.83	\$374.64	
Concrete Saw	0.00	0.00	Hrs.	\$37.43	\$0.00	
Small Tools	0.00				\$0.00	
Service Truck	1.00	40	24.00 Hrs.	\$42.14	\$1,011.36	no service truck used
Pickup Truck	1.00	40	24.00 Hrs.	\$41.57	\$997.68	
Subtotal Equipment:					\$3,638.16	
O&P					0.00%	\$0.00
TOTAL EQUIPMENT:					\$3,638.16	

MATERIAL	Quantity	Supplier	Unit	Unit \$	Subtotals	Comments
Sod	1.00	see comment	Pallet	\$390.00	\$390.00	Supplier (Ferguson)
Sod Delivery	1.00	see comment	LS	\$200.00	\$200.00	Supplier (United Rental)
PVC Pipe	70.00		LF	\$12.22	\$855.40	
Geotextile	1.00		Roll	\$620.00	\$620.00	
#2 Stone	21.00	see comment	TON	\$30.35	\$637.35	Supplier (United Rental)
Gabion stone include delivery	2.00		TON	\$41.35	\$82.70	
Landscaping Edge	10.00		EA	\$29.97	\$299.70	
Subtotal Material:					\$3,085.15	
Price +6% Tax					\$3,270.26	
O&P					0.00%	\$0.00
TOTAL MATERIAL					\$3,270.26	

SUBCONTRACTOR	Quant. (in Day)	Hrs	Unit \$	Subtotals	Comments	
Stakes and Asbuilt	1.00		\$300.00	\$300.00	Sub (Liggie Surveys)	
Tree Removal	0.00		\$0.00	\$0.00		
Trucking	0.00	0	\$0.00	\$0.00	Sub (Trucking)	
Concrete and Compaction	0.00	0	\$0.00	\$0.00	Sub (Dulles Geotechnical)	
Testing	0.00		\$0.00	\$0.00		
Subtotal Sub:					\$300.00	
O&P					10.00%	\$30.00
TOTAL SUB					\$330.00	

SUBTOTAL L+E+M:	\$10,445.83	
Bond	15.00%	\$1,566.87
TOTAL L+E+M+S:	\$12,342.70	
Roundup Each (Unit):	\$12,343.00	
Total Each (Unit):	1	
CO TOTAL:	\$ 12,343.00	

Created by: S. Salihi, E.I.T, Resident Engineer,
Checked by: A. Ronca, PE, 09/19/22

1. Time for this was task was considered during second contract extension.
2. Production rate and crew size was based on current crew size for similar work.
3. Trade rates reflect effective payroll rates, plus payroll burden.
4. 2022 Rental Rate Blue Book rates were referenced and considered in preparation of this estimate.

Cost Breakdown For Topsoil Removal and Core Drilling

Labor & Equipment Costs

Labor

Classification	Days	Hours (ST)	Hours (OT)	Rate (hr)	OT Rate (hr)	Total
Foreman	1.5 1.25	8		\$ 43.70		\$ 524.40
Laborer	1.5 1.25	8		\$ 26.48		\$ 317.81
Laborer	1.5 1.25	8		\$ 26.48		\$ 317.81
Laborer	1.5 1.25	8		\$ 25.33		\$ 304.00
Laborer	1.5 1.25	8		\$ 25.33		\$ 304.00
Total						\$ 1,768.02

Equipment

Equipment	Days	Hours (Active)	Hours (Stby)	Rate (Active)	Rate (Stby)	Total
Pick up Truck, Silverado 1500	1.5 1.25	8	0	\$ 41.57		\$ 498.84
Skid Steer, John Deere 317	1.5 1.25	8	0	\$ 52.27		\$ 627.24
Service Truck	1.5 1.25	8	0	\$ 42.74		\$ 505.68
Total						\$ 1,631.76

Material

Material	Supplier	Quantity	Unit	Unit Price	Unit Price + Tax	Total
4" Tee		3 ✓	EA	\$ 18.37	\$ 19.47	\$ 58.42
4" PVC pipe		10 ✓	FT	\$ 5.96	\$ 6.32	\$ 63.18
4" Coupling		1 ✓	EA	\$ 3.67	\$ 3.89	\$ 3.89
Total						\$ 125.48

Subcontractor

Work	Sub Contractor	Day	Hours	Rate	Lump Sum	Total
Coredrilling	DOT Drilling	0			\$ 450.00	\$ 450.00
Allowance (10%)						\$ 45.00
Total						\$ 495.00

Base Cost (Labor + Equipment + Material)	\$ 3,525.00
Base Cost Overhead and Profit (15%)	\$ 528.75
Subcontractor Cost Inc Overhead (10%)	\$ 495.00
Total	\$ 4,582.00

AR/SS
9/20/22

ARDENT



STV/County Independent Cost Estimate, 09/19/22

Ballston-MU Station Area Improvements Project

Arlington County, VA

PCO-25Core Drilling

Description of Change;

Due to water puddling issue, County suggested to core drill the pre-cast section under wooden benches.

Task Description	Quantity	Hours	Unit	Rate	Subtotals	Comments
LABOR						
Foreman	1.00	10	4.00 Hrs.	\$38.00	\$152.00	
Laborer (skilled)	2.00	10	4.00 Hrs.	\$23.00	\$184.00	
Laborer (unskilled)	2.00	10	4.00 Hrs.	\$22.00	\$476.00	
Operator	0.00		Hrs.	\$23.93	\$0.00	
Dump Truck Driver	0.00		0.00 Hrs.	\$20.34	\$0.00	
Other	0.00		0.00 Hrs.	\$50.00	\$0.00	
Subtotal Labor Base:					\$512.00	
Ind. Labor					15.15%	\$77.57 16.15% payroll burden
Subtotal Labor:					\$589.57	
O&P					0.00%	\$0.00 O&P is on Base + Indirect Labor
TOTAL LABOR					\$589.57	

EQUIPMENT	Quantity	Hours	Unit	Rate	Subtotals	Comments
Excavator	0.00		0.00 Hrs.	\$124.64	\$0.00	
Backhoe	0.00		0.00 Hrs.	\$35.76	\$0.00	
Skid Steer	1.00	10	4.00 Hrs.	\$52.27	\$209.08	
Dump Truck (Large)	0.00		0.00 Hrs.	\$97.40	\$0.00	
Dump Truck (Small)	0.00		0.00 Hrs.	\$46.77	\$0.00	
Generator	0.00		Hrs.		\$0.00	
Concrete Saw	0.00		0.00 Hrs.	\$37.43	\$0.00	
Small Tools	0.00		Hrs.		\$0.00	
Service Truck	1.00	10	4.00 Hrs.	\$42.14	\$168.56	no service truck used
Pickup Truck	1.00	10	4.00 Hrs.	\$41.57	\$166.28	
Subtotal Equipment:					\$543.92	
O&P					0.00%	\$0.00
TOTAL EQUIPMENT:					\$543.92	

MATERIAL	Quantity	Supplier	Unit	Unit \$	Subtotals	Comments
4" Tee	3.00		EA	\$18.37	\$55.11	Supplier (Ferguson)
4" PVC Pipe	10.00		LF	\$5.96	\$59.60	Supplier (United Rental)
4" Coupling	1.00		EA	\$3.67	\$3.67	
Dump Fee	0.00		EA	\$190.00	\$0.00	
Waterpumping	0.00		LS	\$618.29	\$0.00	Supplier (United Rental)
Forms and Miscellaneous	0.00		LS	\$100.00	\$0.00	
Mix Bagged Concrete	0.00		LS	\$100.00	\$0.00	
Concrete	0.00		CY	\$234.69	\$0.00	
Subtotal Material:					\$118.38	
Price +6% Tax					\$125.48	
O&P					0.00%	\$0.00
TOTAL MATERIAL					\$125.48	

SUBCONTRACTOR	Quant. (in EA)	Hrs	Unit \$	Subtotals	Comments	
Core-Drilling	3.00		\$150.00	\$450.00	Sub (Liggie Surveys)	
Tree Removal	0.00		\$0.00	\$0.00		
Trucking	0.00	0	\$0.00	\$0.00	Sub (Trucking)	
Concrete and Compaction	0.00	0	\$0.00	\$0.00	Sub (Dulles Geotechnical)	
Testing				\$0.00		
Subtotal Sub:					\$450.00	
O&P					10.00%	\$45.00
TOTAL SUB					\$495.00	

SUBTOTAL L+E+M:		\$1,256.97
Bond	15.00%	\$188.55
TOTAL L+E+M+S:		\$1,942.82
Roundup Each (Unit):		\$1,943.00
Total Each (Unit):		4
CO TOTAL:		\$ 7,772.00

Created by: S. Salihi, E.I.T, Resident Engineer,
Checked by: A. Ronca, PE, 09/19/22

1. Production rate and crew size was based on current crew size for similar work.
2. Trade rates reflect effective payroll rates, plus payroll burden.
3. 2022 Rental Rate Blue Book rates were referenced and considered in preparation of this estimate.

EXCEL TREE EXPERT CO, INC

**7549 Montevideo Road
Jessup, MD 20794**

(410) 799-3266

Fax (410) 799-3663

TIN 52-1383635 MHIC# 26659 MD TREE EXPERT #209

Mmbr:TCIA MAA & ISA

Proposal

Date

9/1/2022

Estimate No.

16718

Name/Address
Ardent Company PO Box 879 McClellan VA 22101-0879

Jobsite
N. Fairfax Drive, Arlington Ballston Metr

Customer Phone	Customer Alt. Phone	Customer Fax	Customer E-mail
703-288-3250	703-677-7665		bijay@ardentcompany.com

Description	Total
Intersection of N Fairfax Drive and N Stafford Street, Arlington, VA 22203 Job 193-20 Ballston MU Metro Sta ITB20-110-9-6 950 N Stafford Street (side of Hilton) Prune deadwood on 3) willow oaks (7", 10", and 13") 901 N Stuart Street - in front of Sushi2Go and Tivoli Gourmet & Pastry Prune deadwood on 4) willow oaks (10", 10", 11" and 13") Remove wood & debris. GC is responsible for obtaining all permits. All posting and MOT to be by GC. Any hand digging due to Miss Utility conflicts is to be the responsibility of GC. Includes dump fees. Does not include any trash removal. Does not include night or weekend work. GC to pay fee \$1,500 per day or any part of day thereof IF crew shows up and cannot work due to factors beyond our control that are not weather related. Maximum of 5% retainage to be held.	1,800.00

Thank you for your business.	Total \$1,800.00
------------------------------	--

Terms:

Payment due on completion of work. 1.5% monthly interest will be assessed to unpaid invoices 30 days after the due date. MC, Visa, Amex & Discover accepted. Not responsible for minor lawn or pavement damage.

Marty Levine, Will Craft
ISA Certified Arborists & Lic MD Tree Experts

Your acceptance signature & date _____

Typed by amm

EC
10% O&P
of sub
-Contract

1800+10% = 1980

AR/SS
9/20/22

ARDENT



STV/County Independent Cost Estimate, 09/19/22

Ballston-MU Station Area Improvements Project
Arlington County, VA
PCO-25 Planter 9 & 10 Tree Trimming

Description of Change;

Per County instruction, dead branches on planter 9 & 10 trees need to be trimmed.

Task Description	Quantity	Hours	Unit	Rate	Subtotals	Comments
LABOR						
Foreman	0.00	0.00	Hrs.	\$38.00	\$0.00	
Laborer (skilled)	0.00	0.00	Hrs.	\$23.00	\$0.00	
Laborer (unskilled)	0.00	0.00	Hrs.	\$22.00	\$0.00	
Operator	0.00	0.00	Hrs.	\$23.93	\$0.00	
Dump Truck Driver	0.00	0.00	Hrs.	\$20.34	\$0.00	
Other	0.00	0.00	Hrs.	\$50.00	\$0.00	
Subtotal Labor Base:					\$0.00	
Ind. Labor 15.15%					\$0.00	15.15% payroll burden
Subtotal Labor:					\$0.00	
O&P 0.00%					\$0.00	O&P is on Base + Indirect Labor
TOTAL LABOR					\$0.00	

EQUIPMENT	Quantity	Hours	Unit	Rate	Subtotals	Comments
Excavator	0.00	0.00	Hrs.	\$124.64	\$0.00	
Backhoe	0.00	0.00	Hrs.	\$35.76	\$0.00	
Skid Steer	1.00	0.00	Hrs.	\$52.27	\$0.00	
Dump Truck (Large)	0.00	0.00	Hrs.	\$97.40	\$0.00	
Dump Truck (Small)	0.00	0.00	Hrs.	\$46.77	\$0.00	
Generator	0.00	0.00	Hrs.		\$0.00	
Concrete Saw	0.00	0.00	Hrs.	\$37.43	\$0.00	
Small Tools	0.00	0.00	Hrs.		\$0.00	
Service Truck	0.00	0.00	Hrs.	\$42.14	\$0.00	no service truck used
Pickup Truck	1.00	0.00	Hrs.	\$41.57	\$0.00	
Subtotal Equipment:					\$0.00	
O&P 0.00%					\$0.00	
TOTAL EQUIPMENT:					\$0.00	

MATERIAL	Quantity	Supplier	Unit	Unit \$	Subtotals	Comments
Waterline Materials	0.00	see comment	LS	\$6,233.21	\$0.00	Supplier (Ferguson)
Trench Box	0.00	see comment	LS	\$877.00	\$0.00	Supplier (United Rental)
Stone	0.00		TON	\$21.50	\$0.00	
Dump Fee	0.00		EA	\$190.00	\$0.00	
Waterpumping	0.00	see comment	LS	\$618.29	\$0.00	Supplier (United Rental)
Forms and Miscellaneous	0.00		LS	\$100.00	\$0.00	
Mix Bagged Concrete	0.00		LS	\$100.00	\$0.00	
Concrete	0.00		CY	\$234.69	\$0.00	
Subtotal Material:					\$0.00	
Price +6% Tax					\$0.00	
O&P 0.00%					\$0.00	
TOTAL MATERIAL					\$0.00	

SUBCONTRACTOR	Quant. (in Day)	Hrs	Unit \$	Subtotals	Comments
Excel Tree Expert Co, Inc	1.00	1.00	\$1,800.00	\$1,800.00	Sub (Liggie Surverys)
Tree Removal	0.00	0.00	\$0.00	\$0.00	
Trucking	0.00	0	\$0.00	\$0.00	Sub (Trucking)
Concrete and Compaction	0.00	0	\$0.00	\$0.00	Sub (Dulles Geotechnical)
Testing	0.00	0.00	\$0.00	\$0.00	
Subtotal Sub:				\$1,800.00	
O&P 10.00%				\$180.00	
TOTAL SUB				\$1,980.00	

SUBTOTAL L+E+M:	\$0.00
Bond 15.00%	\$0.00
TOTAL L+E+M+S:	\$1,980.00
Roundup Each (Unit):	\$1,980.00
Total Each (Unit):	1
CO TOTAL:	\$ 1,980.00

Created by: S. Salihi, E.I.T, Resident Engineer,
Checked by: A. Ronca, PE, 09/19/22

1. Production rate and crew size was based on current crew size for similar work.
2. Trade rates reflect effective payroll rates, plus payroll burden.
3. 2022 Rental Rate Blue Book rates were referenced and considered in preparation of this estimate.



Ardent Job: 193-20

September 15, 2022

Ms. E. Robin McElhenny
 Transit Capital Program Manager
 Arlington County | DES | DOT-Transit Bureau
 2100 Clarendon Blvd., Suite 813
 Arlington, VA 22201

AR/SS
 9/20/22

Re: Contract No. 20-110-9-6
Ballston MU Metro Station Area Improvements
Arlington County

Dear Ms. McElhenny,

Ardent Company hereby submits another change order request for overruns of existing line items as well as for new items.

The table below summarizes the existing and new contract items and the subsequent pages with this letter show in the plan the scope of these new works. Detailed cost breakdown with material prices is attached with this change order request.

Item Code #	Work Description	Qty	Asbuilt	Overrun	Unit	Unit Price	Overrun Amount
4	Maintenance of Traffic	0	2	2	DAY	\$1,500.00	\$3,000.00
5	Demolition	0	1	1	LS	\$14,916.00	\$14,916.00
7	Aggregate Base Material, VDOT 21A	938	986	48	CY	\$60.00	\$2,880.00
9	Concrete Curb, VDOT CG-2	1026	1217	191	LF	\$35.00	\$6,685.00
10	Concrete Sidewalk, 4", Arlington County R-2.0	3556	3717	161	SY	\$65.00	\$10,465.00
13	10" Concrete Paving	1079	1096	17	SY	\$160.00	\$2,720.00
16	Asphalt Concrete, Base Course, VDOT BM-25.0A	0	104	104	TON	\$150.00	\$15,600.00
17	Asphalt Concrete, Surface Course, VDOT SM-9.5A	0	35	35	TON	\$250.00	\$8,750.00
23	Non-Perforated PVC, 4", Schedule 40	470	584	114	LF	\$9.00	\$1,026.00
24	Non-Perforated PVC, 6", Schedule 40	50	90	40	LF	\$15.00	\$600.00
46	PVC Conduit, 2", Schedule 40 - Street Lighting	1020	1726	706	LF	\$15.00	\$10,590.00
50	F&I (2) #8 AWG & (1) #6 EGC	1020	1726	706	LF	\$4.00	\$2,824.00

55	Reset/Adjust Electrical Manhole	3	7	✓ 4	LF	\$1,000.00	\$4,000.00
110	Precast Concrete Bench at Raised Planter, Detail 1/A2.8	370	515	✓ 145	LF	\$840.00	\$121,800.00
125	PVC Conduit, 2", Schedule 40 - Bus Shelters	750	1114	✓ 364	LF	\$14.00	\$5,096.00
126	PVC Conduit, 4", Schedule 40 - Bus Shelters	450	463	✓ 13	LF	\$16.00	\$208.00
127	Furnish & Install (1) #6 AWG XHHW and (1) #10 AWG Ground Wire	1200	1577	✓ 377	LF	\$3.00	\$1,131.00
132	Bus Shelter Foundation	24	130	63 106	SY	\$120.00	\$12,720.00
CO6-7	Junction Boxes	2	4	✓ 2	EA	\$2,288.00	\$4,576.00
EWO1	Price Escalation for Asphalt	0	1	✓ 1	LS	\$2,651.00	\$2,651.00
EWO2	Flag Sign Form Relocation	1	-	-	EA	\$779.00	\$779.00
EWO3	Concrete Behind Stairs	1	-	-	EA	\$8,094.00	\$8,094.00
EWO4	CR-3 Modifications	1	-	-	EA	\$17,884.00	\$17,884.00
EWO5	Planter Coredrilling	4	-	-	EA	\$4,582.00	\$18,328.00
Total Changes							\$277,323.00

Should you have any questions, please do not hesitate to contact me.

Need to Add the cost for Tree Trimming for Planter - [unclear] Co.

Sincerely,
Ardent Company, LLC

A. Hooshangi

Arash Hooshangi, P.E.
Managing Director

Section D. Original Party Estimates (PCO 25)



Ardent Job: 193-20

September 15, 2022

Ms. E. Robin McElhenny
 Transit Capital Program Manager
 Arlington County | DES | DOT-Transit Bureau
 2100 Clarendon Blvd., Suite 813
 Arlington, VA 22201

**Re: Contract No. 20-110-9-6
 Ballston MU Metro Station Area Improvements
 Arlington County**

Dear Ms. McElhenny,

Ardent Company hereby submits another change order request for overruns of existing line items as well as for new items.

The table below summarizes the existing and new contract items and the subsequent pages with this letter show in the plan the scope of these new works. Detailed cost breakdown with material prices is attached with this change order request.

Item Code #	Work Description	Qty	Asbuilt	Overrun	Unit	Unit Price	Overrun Amount
4	Maintenance of Traffic	0	2	2	DAY	\$1,500.00	\$3,000.00
5	Demolition	0	1	1	LS	\$14,916.00	\$14,916.00
7	Aggregate Base Material, VDOT 21A	938	986	48	CY	\$60.00	\$2,880.00
9	Concrete Curb, VDOT CG-2	1026	1217	191	LF	\$35.00	\$6,685.00
10	Concrete Sidewalk, 4", Arlington County R-2.0	3556	3717	161	SY	\$65.00	\$10,465.00
13	10" Concrete Paving	1079	1096	17	SY	\$160.00	\$2,720.00
16	Asphalt Concrete, Base Course, VDOT BM-25.0A	0	104	104	TON	\$150.00	\$15,600.00
17	Asphalt Concrete, Surface Course, VDOT SM-9.5A	0	35	35	TON	\$250.00	\$8,750.00
23	Non-Perforated PVC, 4", Schedule 40	470	584	114	LF	\$9.00	\$1,026.00
24	Non-Perforated PVC, 6", Schedule 40	50	90	40	LF	\$15.00	\$600.00
46	PVC Conduit, 2", Schedule 40 - Street Lighting	1020	1726	706	LF	\$15.00	\$10,590.00
50	F&I (2) #8 AWG & (1) #6 EGC	1020	1726	706	LF	\$4.00	\$2,824.00

55	Reset/Adjust Electrical Manhole	3	7	4	LF	\$1,000.00	\$4,000.00
110	Precast Concrete Bench at Raised Planter, Detail 1/A2.8	370	515	145	LF	\$840.00	\$121,800.00
125	PVC Conduit, 2", Schedule 40 - Bus Shelters	750	1114	364	LF	\$14.00	\$5,096.00
126	PVC Conduit, 4", Schedule 40 - Bus Shelters	450	463	13	LF	\$16.00	\$208.00
127	Furnish & Install (1) #6 AWG XHHW and (1) #10 AWG Ground Wire	1200	1577	377	LF	\$3.00	\$1,131.00
132	Bus Shelter Foundation	24	130	106	SY	\$120.00	\$12,720.00
CO6-7	Junction Boxes	2	4	2	EA	\$2,288.00	\$4,576.00
EWO1	Price Escalation for Asphalt	0	1	1	LS	\$2,651.00	\$2,651.00
EWO2	Flag Sign Form Relocation	1	-	-	EA	\$779.00	\$779.00
EWO3	Concrete Behind Stairs	1	-	-	EA	\$8,094.00	\$8,094.00
EWO4	CR-3 Modifications	1	-	-	EA	\$17,884.00	\$17,884.00
EWO5	Planter Coredrilling	4	-	-	EA	\$4,582.00	\$18,328.00
Total Changes							\$277,323.00

Should you have any questions, please do not hesitate to contact me.

Sincerely,
Ardent Company, LLC



Arash Hooshangi, P.E.
Managing Director



- NOTES:**
1. REMOVE STRUCTURE BY HAND OR USING SMALL EQUIPMENT AROUND TREE PRESERVATION AREAS.
 2. FOR OVERALL PROPOSED SITE PLAN, SEE SHEET 25.
 3. FOR CONSTRUCTION PHASING, SEE SHEET 26.
 4. WMATA TO DISCONNECT ELECT. CABLES AT PANEL IN STATION ELECT. ROOM AND UPDATE PANEL SCHEDULE. CONTRACTOR TO PULL & REMOVE CABLES FROM ABOVE. CONTRACTOR SHALL PROVIDE ADDITIONAL COORDINATION INFORMATION IN SITE SPECIFIC WORK PLAN.



DEPARTMENT OF ENVIRONMENTAL SERVICES

Division of Transportation
 Transit Bureau
 2100 Clarendon Boulevard, Suite 900
 Arlington, VA 22201
 Phone: 703.228.3344
 Fax: 703.228.0630



Approvals	Date
<i>[Signature]</i> TRANSPORTATION DIRECTOR	9/26/19
<i>[Signature]</i> TRANSIT BUREAU CHIEF	9/25/19
<i>[Signature]</i> CONSTRUCTION COORDINATOR	9/20/19
<i>[Signature]</i> WATER, SEWER, STREETS BUREAU CHIEF	N/A
<i>[Signature]</i> PROJECT MANAGER	9/24/19

Revisions	Date

Project Name and Location
Demolition Plan
 Ballston - MU Station
 Ballston - MU Multimodal Improvements

Designed: K FLYNN
 Drawn: K FLYNN
 Checked: C. ROBERTS
 Miss Utility Transmittal #: #####

Filename: 647881_04_DeI_0 Plan.dwg
 Path: G:\647881 Arlington Ballston MU Drawings
 Plotted: Sept 17, 2019
 Plotted by: p0029986
 Scale: 1" = 25'

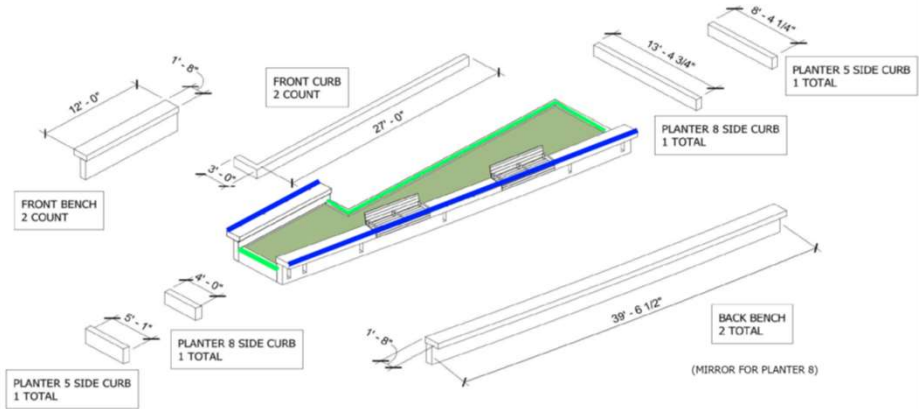
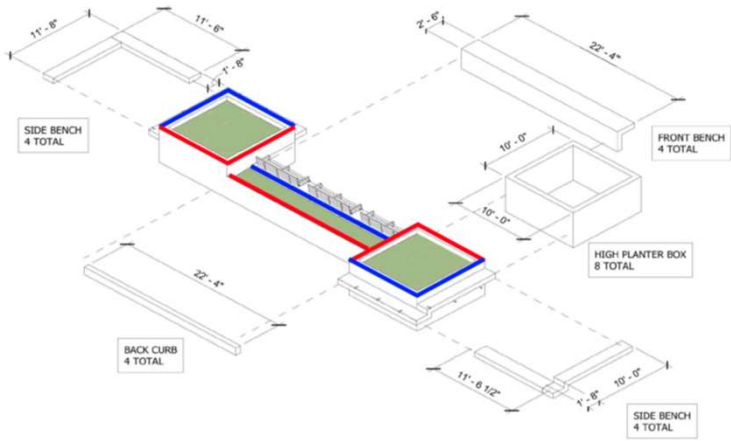
Planter Measurements

Item	Proposal Description	1	2	3	4	5	6	7	8	9	10	Quantity
Item 108	Precast Concrete Bench, Detail 3/A2.8	62.33	62.33	60.50	62.33							247.49
Item 109	Precast Concrete Curb					43.22	84.26	83.82	47.02	7.75	5.5	271.57
Item 110	Precast Concrete Bench at Raised Planter, Detail 1/A2.8	68.71	68.71	66.88	68.71	51.57	29.75	29.79	51.62	42.05	36.4	514.19

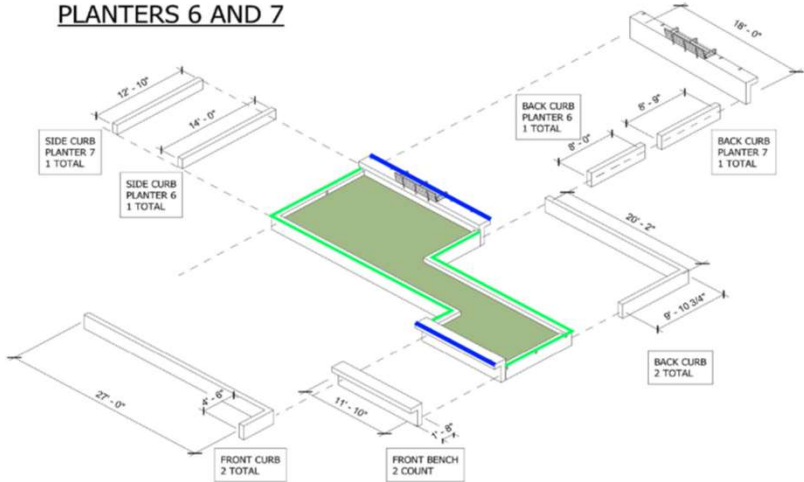
PLANTERS 5 AND 8

NOTE:
PLANTER 5 MIRRORS PLANTER 8 EXCEPT FOR THE SIDE PANELS

PLANTERS 1 - 4



PLANTERS 6 AND 7



Cost Breakdown For Shifting Formwork of Flag Sign Foundation Near Stafford

Labor & Equipment Costs

Labor

Classification	Days	Hours (ST)	Hours (OT)	Rate (hr)	OT Rate (hr)	Total
Foreman	1	3		\$ 43.70		\$ 131.10
Laborer	1	3		\$ 26.48		\$ 79.45
Laborer	1	3		\$ 26.48		\$ 79.45
Laborer	1	3		\$ 25.33		\$ 76.00
Laborer	1	0		\$ 25.33		\$ -
Total						\$ 366.01

Equipment

Equipment	Days	Hours (Active)	Hours (Stby)	Rate (Active)	Rate (Stby)	Total
Pick up Truck, Silverado 1500	1	3	0	\$ 41.57		\$ 124.71
Skid Steer, John Deere 317	1	3	0	\$ 52.27		\$ 156.81
Total						\$ 281.52

Base Cost (Labor + Equipment + Material)	\$ 648.00
Base Cost Overhead and Profit (15%)	\$ 97.20
Subcontractor Cost Inc Overhead (10%)	\$ -
Total	\$ 779.00

Cost Breakdown For Concrete Pour Behind Stairs

Labor & Equipment Costs

Labor

Classification	Days	Hours (ST)	Hours (OT)	Rate (hr)	OT Rate (hr)	Total
Foreman	2	8		\$ 43.70		\$ 699.20
Laborer	2	8		\$ 26.48		\$ 423.75
Laborer	2	8		\$ 26.48		\$ 423.75
Laborer	2	8		\$ 25.33		\$ 405.33
Laborer	2	8		\$ 25.33		\$ 405.33
Total						\$ 2,357.36

Equipment

Equipment	Days	Hours (Active)	Hours (Stby)	Rate (Active)	Rate (Stby)	Total
Pick up Truck, Silverado 1500	2	8	0	\$ 41.57		\$ 665.12
Skid Steer, John Deere 317	2	8	0	\$ 52.27		\$ 836.32
Service Truck	2	8	0	\$ 42.14		\$ 674.24
Total						\$ 2,175.68

Material

Material	Supplier	Quantity	Unit	Unit Price	Unit Price + Tax	Total
Concrete		6	CY	\$ 234.69	\$ 356.77	\$ 2,140.63
Total						\$ 2,140.63

Subcontractor

Work	Sub Contractor	Day	Hours	Rate	Lump Sum	Total
Testing	Dulles Geotech	1		\$ 350.00		\$ 350.00
					Allowance (10%)	\$ 35.00
Total						\$ 385.00

Base Cost (Labor + Equipment + Material)	\$ 6,674.00
Base Cost Overhead and Profit (15%)	\$ 1,001.10
Subcontractor Cost Inc Overhead (10%)	\$ 385.00
Total	\$ 8,094.00

Cost Breakdown For CR-3

Labor & Equipment Costs

Labor

Classification	Days	Hours (ST)	Hours (OT)	Rate (hr)	OT Rate (hr)	Total
Foreman	5	8		\$ 43.70		\$ 1,748.00
Laborer	5	8		\$ 26.48		\$ 1,059.38
Laborer	5	8		\$ 26.48		\$ 1,059.38
Laborer	5	8		\$ 25.33		\$ 1,013.32
Laborer	5	8		\$ 25.33		\$ 1,013.32
Total						\$ 5,893.40

Equipment

Equipment	Days	Hours (Active)	Hours (Stby)	Rate (Active)	Rate (Stby)	Total
Pick up Truck, Silverado 1500	5	8	0	\$ 41.57		\$ 1,662.80
Skid Steer, John Deere 317	5	8	0	\$ 52.27		\$ 2,090.80
Water Truck	1	8	0	\$ 46.83		\$ 374.64
Service Truck	5	8	0	\$ 42.14		\$ 1,685.60
Total						\$ 5,813.84

Material

Material	Supplier	Quantity	Unit	Unit Price	Unit Price + Tax	Total
Sod		1	Pallet	\$ 390.00	\$ 521.40	\$ 521.40
Sod Delivery		1	LS	\$ 200.00	\$ 212.00	\$ 212.00
PVC Pipe		70	LF	\$ 12.22	\$ 12.95	\$ 906.72
Geotextile		1	Roll	\$ 620.00	\$ 657.20	\$ 657.20
#2 Stone		21	Ton	\$ 30.35	\$ 32.17	\$ 675.59
Gabion Stone, incl short delivery		2	Ton	\$ 41.35	\$ 43.83	\$ 237.66
Landscape Edging		10	EA	\$ 29.97	\$ 31.77	\$ 317.68
Total						\$ 3,528.26

Subcontractor

Work	Sub Contractor	Day	Hours	Rate	Lump Sum	Total
Surveying	Liggie	1			\$ 300.00	\$ 300.00
					Allowance (10%)	\$ 30.00
Total						\$ 330.00

Base Cost (Labor + Equipment + Material)	\$ 15,235.00
Base Cost Overhead and Profit (15%)	\$ 2,285.25
Subcontractor Cost Inc Overhead (10%)	\$ 330.00
Total	\$ 17,884.00

Additional Formwork 0.5 days
PVC pipe with stone 2 days
Core drill and patch 1 days
Edging, Sod Installation 1 days
Gabion stone placement 0.5 days

Cost Breakdown For Topsoil Removal and Core Drilling

Labor & Equipment Costs

Labor

Classification	Days	Hours (ST)	Hours (OT)	Rate (hr)	OT Rate (hr)	Total
Foreman	1.5	8		\$ 43.70		\$ 524.40
Laborer	1.5	8		\$ 26.48		\$ 317.81
Laborer	1.5	8		\$ 26.48		\$ 317.81
Laborer	1.5	8		\$ 25.33		\$ 304.00
Laborer	1.5	8		\$ 25.33		\$ 304.00
Total						\$ 1,768.02

Equipment

Equipment	Days	Hours (Active)	Hours (Stby)	Rate (Active)	Rate (Stby)	Total
Pick up Truck, Silverado 1500	1.5	8	0	\$ 41.57		\$ 498.84
Skid Steer, John Deere 317	1.5	8	0	\$ 52.27		\$ 627.24
Service Truck	1.5	8	0	\$ 42.14		\$ 505.68
Total						\$ 1,631.76

Material

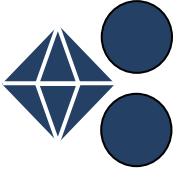
Material	Supplier	Quantity	Unit	Unit Price	Unit Price + Tax	Total
4" Tee		3	EA	\$ 18.37	\$ 19.47	\$ 58.42
4" PVC pipe		10	FT	\$ 5.96	\$ 6.32	\$ 63.18
4" Coupling		1	EA	\$ 3.67	\$ 3.89	\$ 3.89
Total						\$ 125.48

Subcontractor

Work	Sub Contractor	Day	Hours	Rate	Lump Sum	Total
Coredrilling	DOT Drilling	0			\$ 450.00	\$ 450.00
					Allowance (10%)	\$ 45.00
Total						\$ 495.00

Base Cost (Labor + Equipment + Material)	\$ 3,525.00
Base Cost Overhead and Profit (15%)	\$ 528.75
Subcontractor Cost Inc Overhead (10%)	\$ 495.00
Total	\$ 4,582.00

Section E. Current Quotes from Vendors & Backup (PCO 25)



DOT DIAMOND CORE DRILLING INC.

4751 Lydell Rd • Hyattsville MD 20781 • 301-316-8220 Tel • 301-772-5458 Fax

September 1, 2022

To: Ardent
Attn: Bijay
Email: bijay@ardentcompany.com
Location: Ballston
Description: Core Drilling

Bijay,

Below is a quote from Dot Diamond Core Drilling, Inc. for the core drilling on the above mentioned project.

Dot Diamond Core Drilling Inc. will:

-Core drill 4" holes through 8" thick planter wall for a cost of \$150.00/hole

Contractor will be responsible for layout of all work and moving pieces to access saw cut.

Dot Diamond Core Drilling, Inc. does charge \$75.00/man/hour downtime and has a minimum charge of \$700.00 (\$1,400.00 for night work). Overtime rates are not included in the above pricing. Rates will be billed at an additional \$35.00/man/hour on Saturday and \$70.00/man/hour on Sunday.

Thank you for inviting us to bid this project. We look forward to working with you in the near future. Should you have any questions, please call me at (301) 316-8220.

Sincerely,

Matt Nolan
Dot Diamond Core Drilling, Inc.

EXCEL TREE EXPERT CO, INC

**7549 Montevideo Road
Jessup, MD 20794**

(410) 799-3266

Fax (410) 799-3663

TIN 52-1383635 MHIC# 26659 MD TREE EXPERT #209

Mmbr:TCIA MAA & ISA

Proposal

Date

9/1/2022

Estimate No.

16718

Name/Address
Ardent Company PO Box 879 McClellan VA 22101-0879

Jobsite
N. Fairfax Drive, Arlington Ballston Metr

Customer Phone	Customer Alt. Phone	Customer Fax	Customer E-mail
703-288-3250	703-677-7665		bijay@ardentcompany.com

Description	Total
Intersection of N Fairfax Drive and N Stafford Street, Arlington, VA 22203 Job 193-20 Ballston MU Metro Sta ITB20-110-9-6 950 N Stafford Street (side of Hilton) Prune deadwood on 3) willow oaks (7", 10", and 13") 901 N Stuart Street - in front of Sushi2Go and Tivoli Gourmet & Pastry Prune deadwood on 4) willow oaks (10", 10", 11" and 13") Remove wood & debris. GC is responsible for obtaining all permits. All posting and MOT to be by GC. Any hand digging due to Miss Utility conflicts is to be the responsibility of GC. Includes dump fees. Does not include any trash removal. Does not include night or weekend work. GC to pay fee \$1,500 per day or any part of day thereof IF crew shows up and cannot work due to factors beyond our control that are not weather related. Maximum of 5% retainage to be held.	1,800.00

Thank you for your business.	Total \$1,800.00
------------------------------	-------------------------

Terms:

Payment due on completion of work. 1.5% monthly interest will be assessed to unpaid invoices 30 days after the due date. MC, Visa, Amex & Discover accepted. Not responsible for minor lawn or pavement damage.

Marty Levine, Will Craft
ISA Certified Arborists & Lic MD Tree Experts

EC

Your acceptance signature & date _____

Typed by amm

1800+10% = 1980

Section F. Attachment A

Attachment A

Contract No. 20-110-9-6

Ballstons MU Metro

Proposed Change Order No. 25 Increased/Decreased Items

Bid Item No.	Item Description	Unit	Unit Price	Original Quantity	Previous Quantity Adjustment	Increase/Decrease		Total Amount
						This CO	Unit Price	
4	Maintenance of Traffic	Day	\$ 1,500.00	0.00	0.00	2.00	\$ 1,500.00	\$ 3,000.00
5	Demolition	LS	\$ 14,916.00	0.00	0.00	1.00	\$ 14,916.00	\$ 14,916.00
7	Aggregate Base Material, VDOT 21A	CY	\$ 60.00	938.00	0.00	48.00	\$ 60.00	\$ 2,880.00
9	Concrete Curb, VOOT CG-2	LF	\$ 35.00	1026.00	0.00	163.00	\$ 35.00	\$ 5,705.00
10	Concrete Sidewalk, 4". Arlington County R-2.0	SY	\$ 65.00	3556.00	0.00	102.00	\$ 65.00	\$ 6,630.00
13	10" Concrete Paving	SY	\$ 160.00	1079.00	0.00	6.00	\$ 160.00	\$ 960.00
16	Asphalt Concrete, Base Course, VDOT BM-25.0A	TON	\$ 150.00	0.00	0.00	104.00	\$ 150.00	\$ 15,600.00
17	Asphalt Concrete, Surface Course, VDOT SM-9.SA	TON	\$ 250.00	0.00	0.00	35.00	\$ 250.00	\$ 8,750.00
23	Non-Perforated PVC, 4", Schedule 40	LF	\$ 9.00	470.00	0.00	104.00	\$ 9.00	\$ 936.00
24	Non-Perforated PVC, 6", Schedule 40	LF	\$ 15.00	50.00	0.00	10.00	\$ 15.00	\$ 150.00
46	Pvc conduit, 2", Schedule 40 - Street Lighting	LF	\$ 15.00	1020.00	0.00	706.00	\$ 15.00	\$ 10,590.00
50	F&I (2) #8 AWG & (1) #6 EGC	LF	\$ 4.00	1020.00	0.00	706.00	\$ 4.00	\$ 2,824.00
55	Reset/Adjust Electrical Manhole	EA	\$ 1,000.00	3.00	0.00	4.00	\$ 1,000.00	\$ 4,000.00
110	Precast Concrete Bench at raised Planter, Detail 1/A2.8	LF	\$ 840.00	370.00	0.00	145.00	\$ 840.00	\$ 121,800.00
125	PVC Conduit, 2", Schedule 40 - Bus Shelters	LF	\$ 14.00	750.00	0.00	364.00	\$ 14.00	\$ 5,096.00
126	PVC Conduit, 4", Schedule 40 - Bus Shelters	LF	\$ 16.00	450.00	0.00	13.00	\$ 16.00	\$ 208.00
127	Furnish & Install (1) #6 AWG XHHW and (1) #10 AWG Ground Wire	LF	\$ 3.00	1200.00	0.00	377.00	\$ 3.00	\$ 1,131.00
132	Bus Shelter Foundation	SY	\$ 120.00	24.00	0.00	63.00	\$ 120.00	\$ 7,560.00
CO6-7	Junction Box	EA	\$ 2,288.00	2	0.00	2.00	\$ 2,288.00	\$ 4,576.00
108	Precast Concrete Bench, Detail 3/A2.8	LF	\$ 350.00	331	0.00	(83.51)	\$ 350.00	\$ (29,228.50)
109	Precast Concrete Curb	LF	\$ 85.00	350	0.00	(78.43)	\$ 85.00	\$ (6,666.55)
Total Net Amount								\$ 181,416.95

Section G. Backup Documentation



- NOTES:**
1. REMOVE STRUCTURE BY HAND OR USING SMALL EQUIPMENT AROUND TREE PRESERVATION AREAS.
 2. FOR OVERALL PROPOSED SITE PLAN, SEE SHEET 25.
 3. FOR CONSTRUCTION PHASING, SEE SHEET 26.
 4. WMATA TO DISCONNECT ELECT. CABLES AT PANEL IN STATION ELECT. ROOM AND UPDATE PANEL SCHEDULE. CONTRACTOR TO PULL & REMOVE CABLES FROM ABOVE. CONTRACTOR SHALL PROVIDE ADDITIONAL COORDINATION INFORMATION IN SITE SPECIFIC WORK PLAN.



DEPARTMENT OF ENVIRONMENTAL SERVICES

Division of Transportation
 Transit Bureau
 2100 Clarendon Boulevard, Suite 900
 Arlington, VA 22201
 Phone: 703.228.3344
 Fax: 703.228.0630



Approvals	Date
<i>[Signature]</i> TRANSPORTATION DIRECTOR	9/26/19
<i>[Signature]</i> TRANSIT BUREAU CHIEF	9/25/19
<i>[Signature]</i> CONSTRUCTION COORDINATOR	9/20/19
<i>[Signature]</i> WATER, SEWER, STREETS BUREAU CHIEF	N/A
<i>[Signature]</i> PROJECT MANAGER	9/24/19

Revisions	Date

Project Name and Location
Demolition Plan
 Ballston - MU Station
 Ballston - MU Multimodal Improvements

Designed: K FLYNN
 Drawn: K FLYNN
 Checked: C. ROBERTS
 Miss Utility Transmittal #: #####

Filename: 647881_04_DeI_0 Plan.dwg
 Path: G:\647881 Arlington Ballston MU Drawings
 Plotted: Sept 17, 2019
 Plotted by: p0029986
 Scale: 1" = 25'

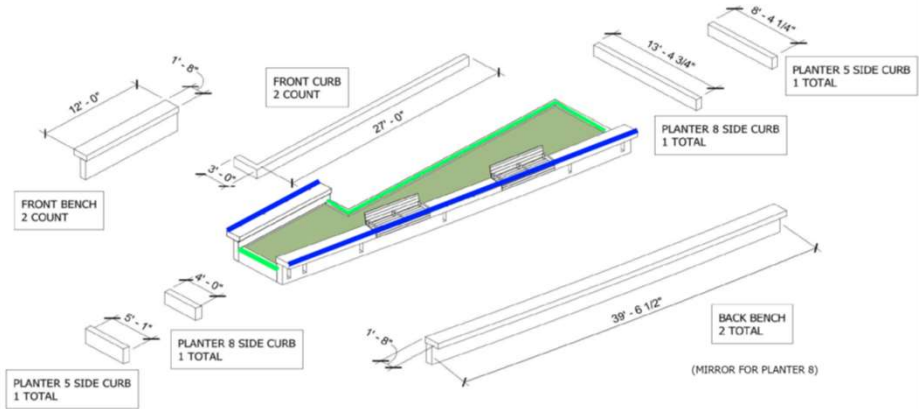
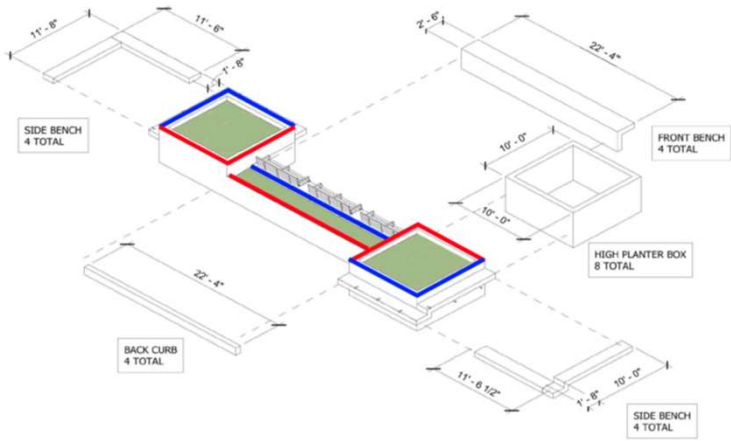
Planter Measurements

Item	Proposal Description	1	2	3	4	5	6	7	8	9	10	Quantity
Item 108	Precast Concrete Bench, Detail 3/A2.8	62.33	62.33	60.50	62.33							247.49
Item 109	Precast Concrete Curb					43.22	84.26	83.82	47.02	7.75	5.5	271.57
Item 110	Precast Concrete Bench at Raised Planter, Detail 1/A2.8	68.71	68.71	66.88	68.71	51.57	29.75	29.79	51.62	42.05	36.4	514.19

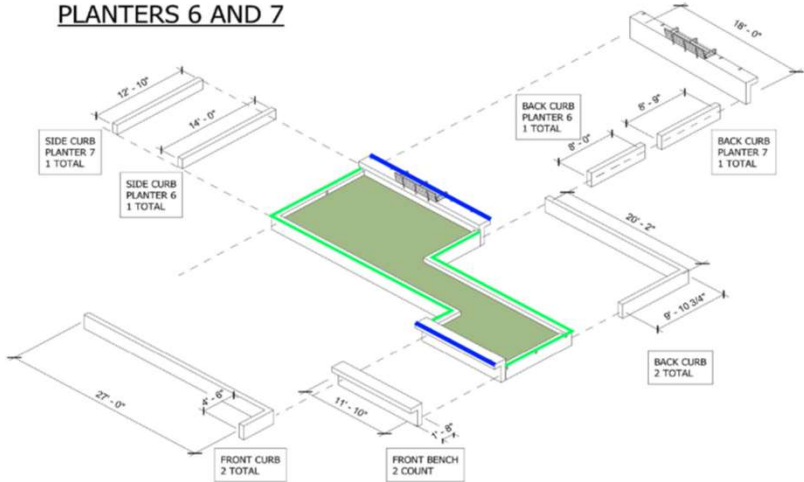
PLANTERS 5 AND 8

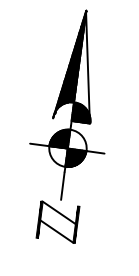
NOTE:
PLANTER 5 MIRRORS PLANTER 8 EXCEPT FOR THE SIDE PANELS

PLANTERS 1 - 4



PLANTERS 6 AND 7





Seal

Approvals	Date
TRANSPORTATION DIRECTOR	
TRANIST BUREAU CHIEF	
QUALITY CONTROL ENGINEER	
WATER, SEWER, STREETS BUREAU CHIEF	
CONSTRUCTION MANAGER SUPERVISOR	
PROGRAM MANAGER	

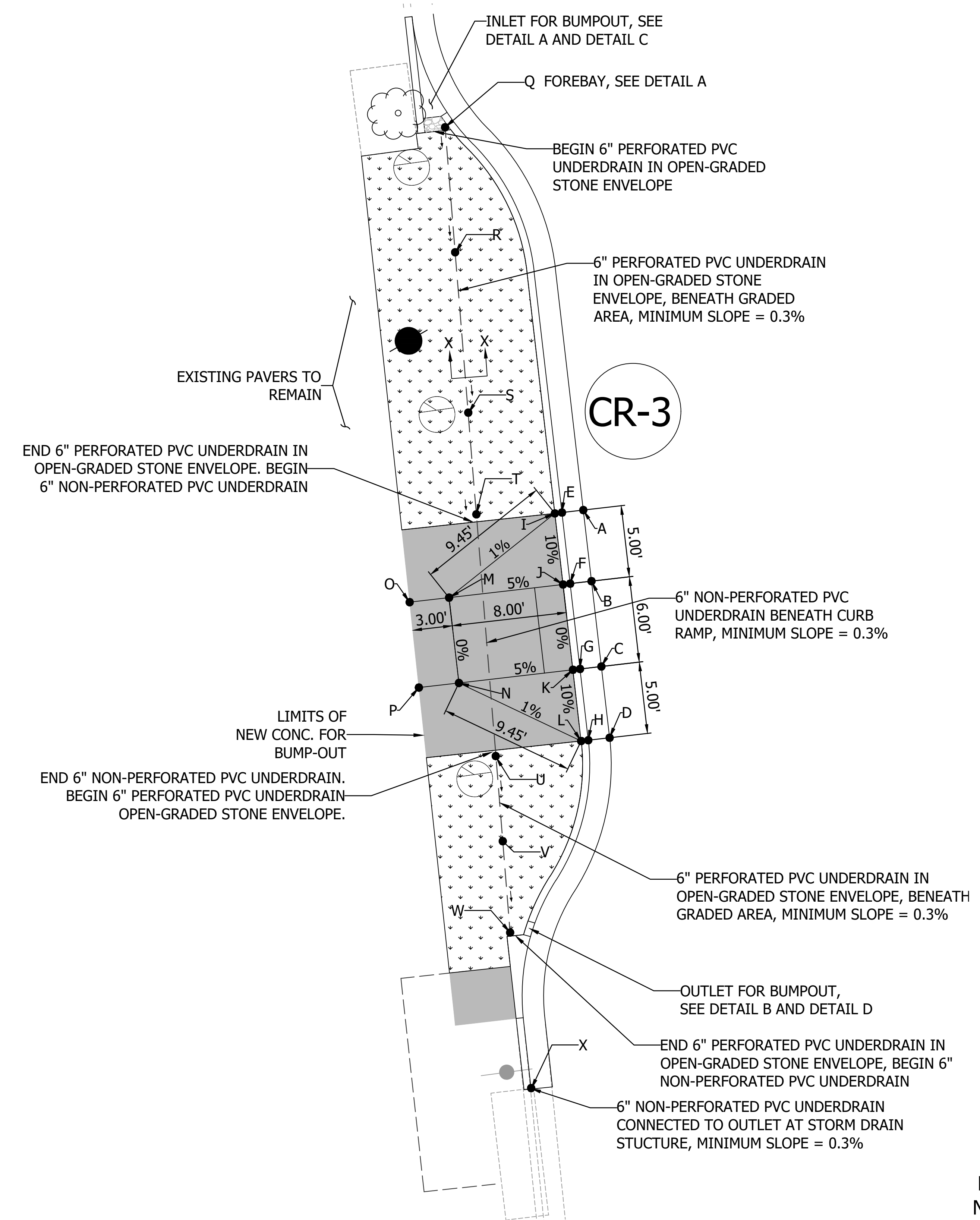
Revisions	Date
6	

Project Name and Location
Ramp Details
 1 of 2
 Ballston - MU Station
 Ballston - MU Multimodal Improvements

Designed: K. FLYNN
 Drawn: K. FLYNN
 Checked: C. ROBERTS
 Miss Utility Transmittal #: ####

Filename: 647881_06_Ramp Details.dwg
 Path: Z:\Stuart St Redesign Sheets
 Plotted: September 02, 2022
 Plotted by: p003306G

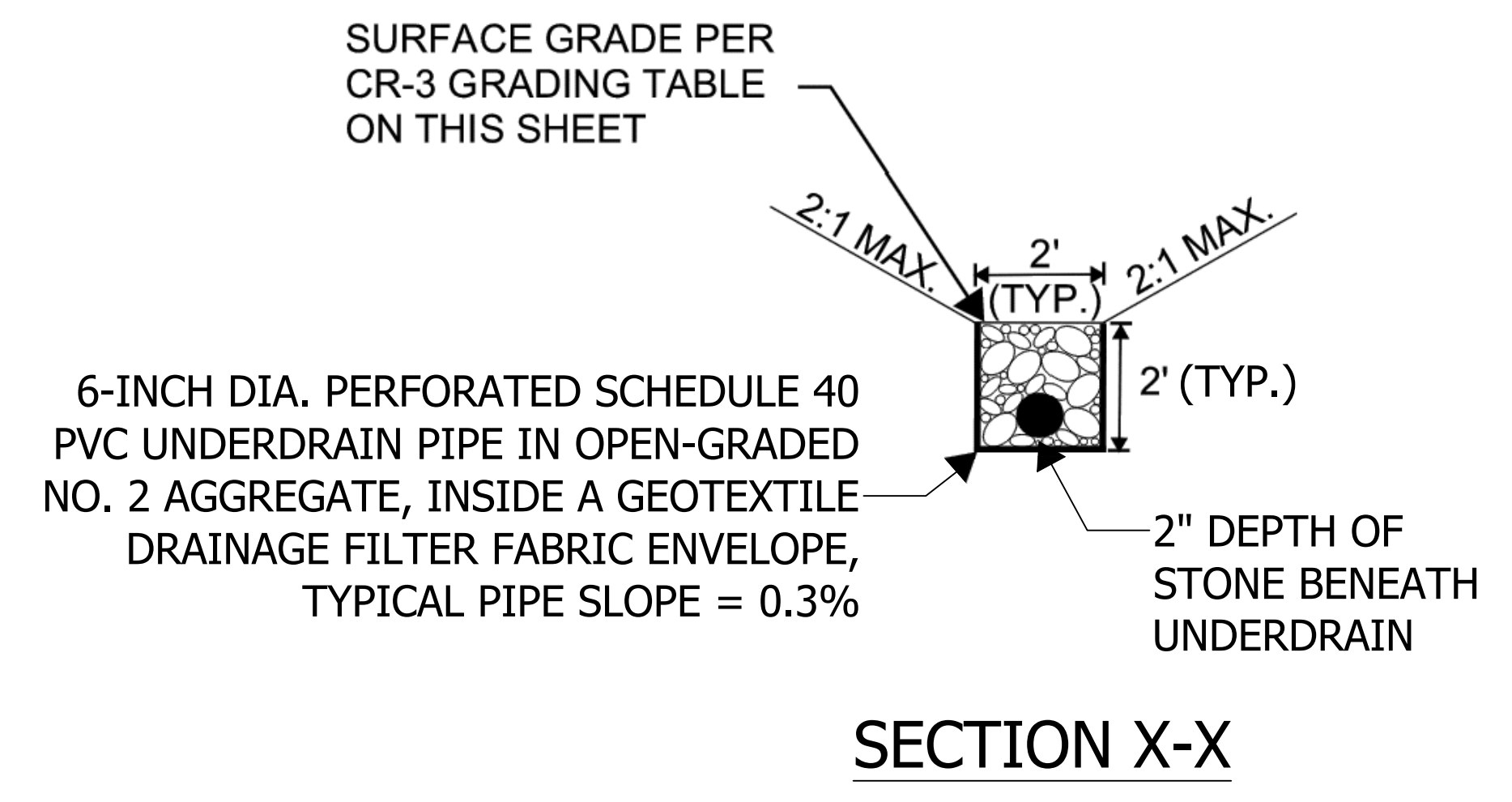
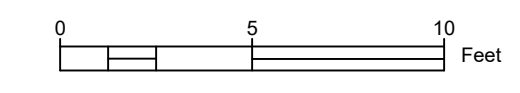
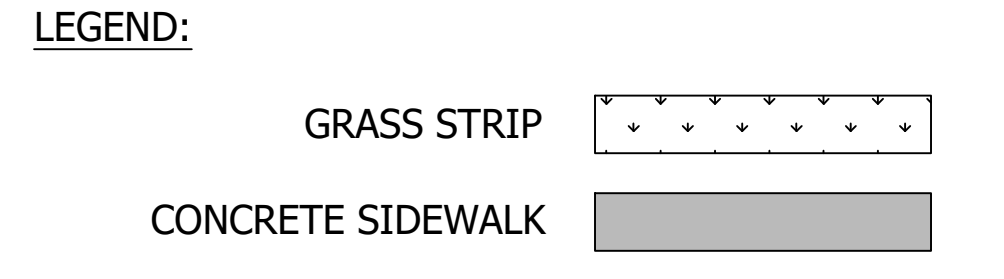
Scale: 1" = 5'



CR-3

POINT	ELEVATION	POINT	ELEVATION	POINT	ELEVATION
1 A	264.85	I	265.23	Q	264.61
2 B	264.83	J	264.71	R	264.58
3 C	264.80	K	264.68	S	264.55
4 D	264.78	L	265.16	T	264.53
5 E	264.73	M	265.24	U	264.48
6 F	264.71	N	265.21	V	264.46
7 G	264.68	O	265.22	W	264.44
8 H	264.66	P	265.19	X	264.41

- NOTE:**
- GRADES SHOWN ON DETAILS ARE ROUNDED. CONSTRUCTION SHALL BE BASED ON ELEVATIONS GIVEN IN TABLES.
 - INSTALL UNDERDRAIN IN OPEN-GRADED STONE ENVELOPE PER SECTION X-X.
 - WHERE THE GRASS STRIP ARE SURROUNDED BY PAVERS, OR OTHER LOOSE MATERIAL, ENSURE THE EDGE OF THE PLANTING AREA IS HELD BACK OR RETAINED BY LANDSCAPE EDGING, IRON STRIPS, OR OTHER APPROPRIATE RESTRAINTS, TO PREVENT SHIFTING OF HARDSCAPE AND LANDSCAPE, IN ACCORDANCE WITH THE ARLINGTON COUNTY LANDSCAPE STANDARDS GUIDE.



Salihi, Sekander

From: Vincent Verweij <Vverweij@arlingtonva.us>
Sent: Tuesday, August 9, 2022 9:14 AM
To: emcelhenny@arlingtonva.us; Salihi, Sekander
Cc: Ronca, Alfonso; Mark Mainardi
Subject: Re: Condition of Existing Trees @ Planter 9 & 10

****This e-mail is from outside STV****

Hi Robin,

While our tree maintenance team probably wouldn't be able to get to that with our current workload, in this timeframe, you could work with our contractor, Greentree, to perform this crown cleaning.

They're in our contract database as Elswick & Elswick. The best contact is Dan, at 410-562-3382

Let me know if you need any additional help,

Vincent Verweij (He/Him/His)
Urban Forest Manager
ISA Certified Arborist (MA-5379A)
Office: 703-228-1863 (messages checked regularly)
Cell: 571-436-0038 (for emergency issues)

We are updating our Forestry and Natural Resources Plan! Provide your input here:

<https://projects.arlingtonva.us/fnrp/>

From: Robin McElhenny <emcelhenny@arlingtonva.us>
Sent: Tuesday, August 9, 2022 8:11 AM
To: Vincent Verweij <Vverweij@arlingtonva.us>; Salihi, Sekander <sekander.salihi@stvinc.com>
Cc: Ronca, Alfonso <Alfonso.Ronca@stvinc.com>; Mark Mainardi <mmainardi@arlingtonva.us>
Subject: RE: Condition of Existing Trees @ Planter 9 & 10

Hi Vincent-

I'm the County PM for the Ballston Multimodal project. We appreciate you visiting the site and inspecting the trees. It's good to hear that there are no high risk issues with them however, there are some dead branches. Would your team be able to trim the trees to remove the dead branches? The Ballston project is wrapping up in September and it would be great if the dead branches were removed in keeping with the other improvements.

Best Regards,
Robin

E. Robin McElhenny
Arlington County
Transit Capital Program Manager

Salihi, Sekander

From: James.Thomas@parsons.com
Sent: Friday, September 2, 2022 3:46 PM
To: Salihi, Sekander
Cc: Ronca, Alfonso; dlsmith@arlingtonva.us; Mark Mainardi; emcelhenny@arlingtonva.us; Bezabh, Demeke A.; Jennifer.Kleinman@parsons.com; dlsmith@arlingtonva.us; Bijay Subedi
Subject: RE: RFI No. CR-3
Attachments: BallstonMU_Ramp Details-CR-3_2022.09.02.pdf

****This e-mail is from outside STV****

Good Afternoon Sekander,

Attached are the revised plan and details for CR-3 to place a grass buffer strip with curb cuts.

Please let me know if there are any questions or comments on the attached after reviewing in the field.

Thank you.

JAMES R. THOMAS, PE
Supervising Engineer
5875 Trinity Parkway, Suite 130, Centreville, VA 20120
james.thomas@parsons.com
Direct: +1 703.218.1084 **NEW NUMBER**
[Parsons](#) / [LinkedIn](#) / [Twitter](#) / [Facebook](#) / [Instagram](#)



From: Salihi, Sekander <Sekander.Salihi@stvinc.com>
Sent: Friday, August 19, 2022 3:59 PM
To: Thomas, James [US-US] <James.Thomas@parsons.com>
Cc: Ronca, Alfonso <Alfonso.Ronca@stvinc.com>; dlsmith@arlingtonva.us; Mark Mainardi <mmainardi@arlingtonva.us>; emcelhenny@arlingtonva.us; Bezabh, Demeke A. <Demeke.Bezabh@stvinc.com>; Kleinman, Jennifer [US-US] <Jennifer.Kleinman@parsons.com>; dlsmith@arlingtonva.us; Bijay Subedi <bijay@ardentcompany.com>
Subject: [EXTERNAL] RE: RFI No. CR-3

Good Afternoon James,

County prefers option no.1, please provide further details for option no.1 so we can ask Ardent to proceed with.

Regards,

Sekander Salihi, EIT
Resident Engineer

Ballston-MU Metro Station Area Improvements Project

Cell: 202-424-9458



From: James.Thomas@parsons.com <James.Thomas@parsons.com>

Sent: Monday, August 15, 2022 4:37 PM

To: Salihi, Sekander <Sekander.Salihi@stvinc.com>

Cc: Ronca, Alfonso <Alfonso.Ronca@stvinc.com>; dsmith@arlingtonva.us; Mark Mainardi

<mmainardi@arlingtonva.us>; emcelhenny@arlingtonva.us; Bezabh, Demeke A. <Demeke.Bezabh@stvinc.com>;

Jennifer.Kleinman@parsons.com

Subject: RE: RFI No. CR-3

****This e-mail is from outside STV****

Sekander,

To follow up on our discussion this afternoon in the field, we recommend two options to address the grading issue identified with this RFI:

1. Eliminate the concrete sidewalk in the bumpout and replace the impervious area with a landscaping strip. We can keep the 6" curb and the ADA ramp and the rest of the bumpout can be planted with ornamental grasses or other landscaping features. This option would create a low spot at the northern edge of the bumpout, which we would address with a curb cut, similar to the attached DDOT standard. We would install riprap on the northern edge, to mitigate erosion concerns, and the outlet at the southern edge would release any excess water to the inlet nearby. The DDOT standard is only being referenced for the curb cut detail and not the bioretention usage.
2. The second option would be to construct the bumpout using mountable curb and install bollards to alert drivers of the obstruction in the roadway. We would construct the curb ramp at the existing curb location, which may require some additional paver replacement to make a smooth landing. In addition we would have to leave an opening in the curb along the gutter on the north and south edges of the bumpout so that water could flow through unimpeded.

We can provide more detail on whichever the County prefers to go with so that Ardent can begin construction next week.

Please let me know the preferred path forward or if any additional information is needed to make the final decision.

Thank you.

JAMES R. THOMAS, PE

Supervising Engineer

5875 Trinity Parkway, Suite 130, Centreville, VA 20120

james.thomas@parsons.com

Direct: +1 703.218.1084 **NEW NUMBER**

[Parsons \[nam11.safelinks.protection.outlook.com\]](#) / [LinkedIn \[nam11.safelinks.protection.outlook.com\]](#) / [Twitter](#)

[\[nam11.safelinks.protection.outlook.com\]](#) / [Facebook \[nam11.safelinks.protection.outlook.com\]](#) / [Instagram](#)

[\[nam11.safelinks.protection.outlook.com\]](#)



From: Salihi, Sekander <Sekander.Salihi@stvinc.com>
Sent: Friday, August 12, 2022 4:07 PM
To: Thomas, James [US-US] <James.Thomas@parsons.com>
Cc: Ronca, Alfonso <Alfonso.Ronca@stvinc.com>; dlsmith@arlingtonva.us; Mark Mainardi <mmainardi@arlingtonva.us>; emcelhenny@arlingtonva.us; Bezabh, Demeke A. <Demeke.Bezabh@stvinc.com>; Kleinman, Jennifer [US-US] <Jennifer.Kleinman@parsons.com>
Subject: [EXTERNAL] Re: RFI No. CR-3

I will get the meeting scheduled later tonight. I am not in front of my computer at the moment.
Sent from my iPhone

On Aug 12, 2022, at 3:36 PM, James.Thomas@parsons.com wrote:

****This e-mail is from outside STV****

Monday afternoon works for me anytime.

Thank you Sekander.

JAMES R. THOMAS, PE
Supervising Engineer
5875 Trinity Parkway, Suite 130, Centreville, VA 20120
james.thomas@parsons.com
Direct: +1 703.218.1084 **NEW NUMBER**
[Parsons \[nam11.safelinks.protection.outlook.com\] \[nam11.safelinks.protection.outlook.com\]](#) / [LinkedIn \[nam11.safelinks.protection.outlook.com\] \[nam11.safelinks.protection.outlook.com\]](#) / [Twitter \[nam11.safelinks.protection.outlook.com\] \[nam11.safelinks.protection.outlook.com\]](#) / [Facebook \[nam11.safelinks.protection.outlook.com\] \[nam11.safelinks.protection.outlook.com\]](#) / [Instagram \[nam11.safelinks.protection.outlook.com\] \[nam11.safelinks.protection.outlook.com\]](#)



From: Salihi, Sekander <Sekander.Salihi@stvinc.com>
Sent: Friday, August 12, 2022 3:25 PM
To: Thomas, James [US-US] <James.Thomas@parsons.com>
Cc: Ronca, Alfonso <Alfonso.Ronca@stvinc.com>; dlsmith@arlingtonva.us; Mark Mainardi <mmainardi@arlingtonva.us>; emcelhenny@arlingtonva.us; Bezabh, Demeke A.

<Demeke.Bezabh@stvinc.com>; Kleinman, Jennifer [US-US] <Jennifer.Kleinman@parsons.com>

Subject: [EXTERNAL] Re: RFI No. CR-3

Hi James,

We have a meeting early in the morning, can we it anytime Monday afternoon?

Sent from my iPhone

On Aug 12, 2022, at 2:44 PM, James.Thomas@parsons.com wrote:

****This e-mail is from outside STV****

Hi Sekander,

I think we may need to have a call to discuss this further. Looking at the County's Street Tree Planting Pit standard, the depth is a minimum of 42" and near the bottom the Contractor would need to install a 4" underdrain connected to the storm system. We have to look into the existing drainage pipe that runs under this location to see if that clearance will work and now the underdrain would tie-in.

In addition, if you look at our plans, the new curb ramp ties in behind the existing curb line so there would be some impact to the pavers to construct the last foot or so of the ramp to get the full 8 foot length. If there are concerns with the existing sidewalk there will be some impacts. I believe the original intent was to replace everything within the grey area to get the grading to work whereas Ardent's RFI implies that only the area in front of the existing curb (shown in blue) will be affected.

Also, even if the tree pit works to handle drainage behind the new curb line, there will be a low spot at the north edge of the new curb line. This will require a new drainage structure at the low point and, potentially, a second structure to tie-in to the storm drain system that is running in front of the curb. We also may need additional survey information to check the drainage as it appears our survey is slightly off, as I stated in my last email.

I am available first thing Monday morning if you would like to discuss further. It's not clear to me why installing the curb ramp within the existing sidewalk would require adjustment of the pavers as we would be keeping all of the curb elevations existing and simply tying to existing sidewalk. However, I may not have all of the information on the condition of the existing sidewalk on that side.

Thank you.

JAMES R. THOMAS, PE
Supervising Engineer
5875 Trinity Parkway, Suite 130, Centreville, VA 20120
james.thomas@parsons.com

Direct: +1 703.218.1084 **NEW NUMBER**
[Parsons \[nam11.safelinks.protection.outlook.com\] \[nam11.safelinks.protection.outlook.com\]](#)
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From: Salihi, Sekander <Sekander.Salihi@stvinc.com>
Sent: Friday, August 12, 2022 11:39 AM
To: Thomas, James [US-US] <James.Thomas@parsons.com>
Cc: Ronca, Alfonso <Alfonso.Ronca@stvinc.com>; dsmith@arlingtonva.us; Mark Mainardi <mmainardi@arlingtonva.us>; emcelhenny@arlingtonva.us; Bezabh, Demeke A. <Demeke.Bezabh@stvinc.com>; Kleinman, Jennifer [US-US] <Jennifer.Kleinman@parsons.com>
Subject: [EXTERNAL] RE: RFI No. CR-3

Good Afternoon James,

I do not think that this will be a cost effective solution, because if we go with this solution to eliminate the bumpout and move the curb ramp back to the existing curb and sidewalk, per existing condition of sidewalk we have to adjust some of the existing pavers to meet the proposed new curb elevation and to get the sidewalk flow down N. Stuart St. This will cost County more money to fix this issue. Please review the tree pit solution if that is doable.

Regards,

Sekander Salihi, EIT
Resident Engineer
Ballston-MU Metro Station Area Improvements Project
Cell: 202-424-9458



From: James.Thomas@parsons.com <James.Thomas@parsons.com>
Sent: Friday, August 12, 2022 9:43 AM
To: Salihi, Sekander <Sekander.Salihi@stvinc.com>
Cc: Ronca, Alfonso <Alfonso.Ronca@stvinc.com>; dsmith@arlingtonva.us; Mark Mainardi <mmainardi@arlingtonva.us>; emcelhenny@arlingtonva.us; Bezabh, Demeke A. <Demeke.Bezabh@stvinc.com>; Jennifer.Kleinman@parsons.com
Subject: RE: RFI No. CR-3

****This e-mail is from outside STV****

Good Morning Sekander,

I took Ardent off of this email until we have a final resolution for this RFI.

After reviewing the existing elevations it appears that even if we reduce the curb height down to get the sidewalk to flow towards Stuart St we would be creating a ponding situation at the northern edge of this bumpout. The flow line elevation at the north tie-in is 264.98 and the elevation of the existing pavement at the edge of the bumpout just to the south is 264.94. To avoid having to install additional drainage at this new low point, it appears that the most cost effective solution would be to stripe out the bumpout and move the curb ramp back to the existing curb and sidewalk. Do you see any issues with that approach?

If we want to move forward with striping out the bumpout and moving back the curb ramp, I recommend that we get some additional elevations on existing sidewalk so that we can review the grading for the new curb ramp location. It appears that our survey elevations are off by a couple of inches based on the information that Bijay gave us so it would be best to get the correct information to ensure the ramp can be constructed correctly.

Please let me know how you would like to proceed. We can provide a sketch of the new location if that is an acceptable approach.

Thank you.

JAMES R. THOMAS, PE
Supervising Engineer
5875 Trinity Parkway, Suite 130, Centreville, VA 20120
james.thomas@parsons.com
Direct: +1 703.218.1084 **NEW NUMBER**
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From: Salihi, Sekander <Sekander.Salihi@stvinc.com>
Sent: Thursday, August 11, 2022 1:15 PM
To: Thomas, James [US-US] <James.Thomas@parsons.com>
Cc: Ronca, Alfonso <Alfonso.Ronca@stvinc.com>; dsmith@arlingtonva.us; Mark Mainardi <mmainardi@arlingtonva.us>; emcelhenny@arlingtonva.us; Bezabh, Demeke A. <Demeke.Bezabh@stvinc.com>; Kleinman, Jennifer [US-US] <Jennifer.Kleinman@parsons.com>; Vivek Thukral <vivek@ardentcompany.com>; Bijay Subedi <bijay@ardentcompany.com>
Subject: [EXTERNAL] RE: RFI No. CR-3

Hi James,

I just want to check in if any progress is made on reviewing of subject RFI.

Regards,

Sekander Salihi, EIT
Resident Engineer
Ballston-MU Metro Station Area Improvements Project
Cell: 202-424-9458



From: Bijay Subedi <bijay@ardentcompany.com>
Sent: Wednesday, August 10, 2022 1:37 PM
To: James.Thomas@parsons.com; Salihi, Sekander <Sekander.Salihi@stvinc.com>
Cc: Ronca, Alfonso <Alfonso.Ronca@stvinc.com>; dsmith@arlingtonva.us; Mark Mainardi <mmainardi@arlingtonva.us>; emcelhenny@arlingtonva.us; Bezabh, Demeke A. <Demeke.Bezabh@stvinc.com>; Jennifer.Kleinman@parsons.com; Vivek Thukral <vivek@ardentcompany.com>
Subject: RE: RFI No. CR-3

****This e-mail is from outside STV****

James,
Please find the attached pdf with elevations.

Thanks,
Bijay

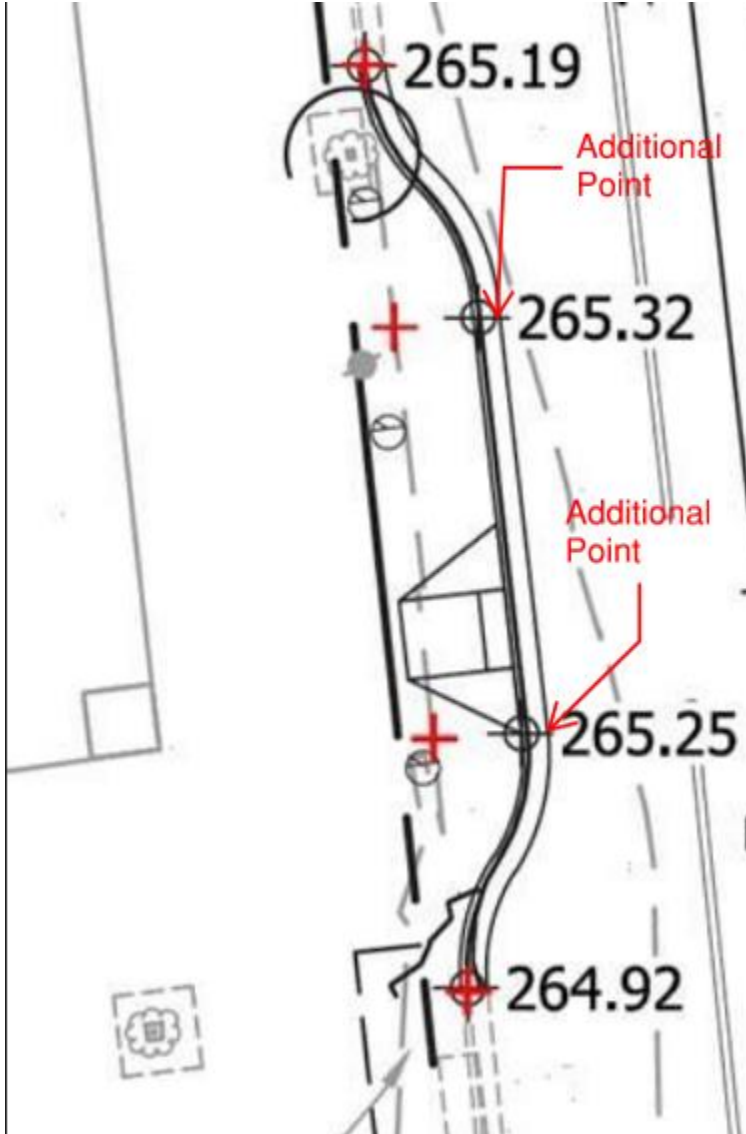
From: James.Thomas@parsons.com <James.Thomas@parsons.com>
Sent: Tuesday, August 9, 2022 4:35 PM
To: Bijay Subedi <bijay@ardentcompany.com>; Salihi, Sekander <Sekander.Salihi@stvinc.com>
Cc: Alfonso.Ronca@stvinc.com; dsmith@arlingtonva.us; Mark Mainardi <mmainardi@arlingtonva.us>; emcelhenny@arlingtonva.us; Bezabh, Demeke A. <Demeke.Bezabh@stvinc.com>; Jennifer.Kleinman@parsons.com; Vivek Thukral

<vivek@ardentcompany.com>

Subject: RE: RFI No. CR-3

Bijay,

If possible could you also add the two points along existing pavement shown below?
The 4 points you marked up are good as well.



Thank you.

JAMES R. THOMAS, PE

Supervising Engineer

5875 Trinity Parkway, Suite 130, Centreville, VA 20120

james.thomas@parsons.com

Direct: +1 703.218.1084 **NEW NUMBER**

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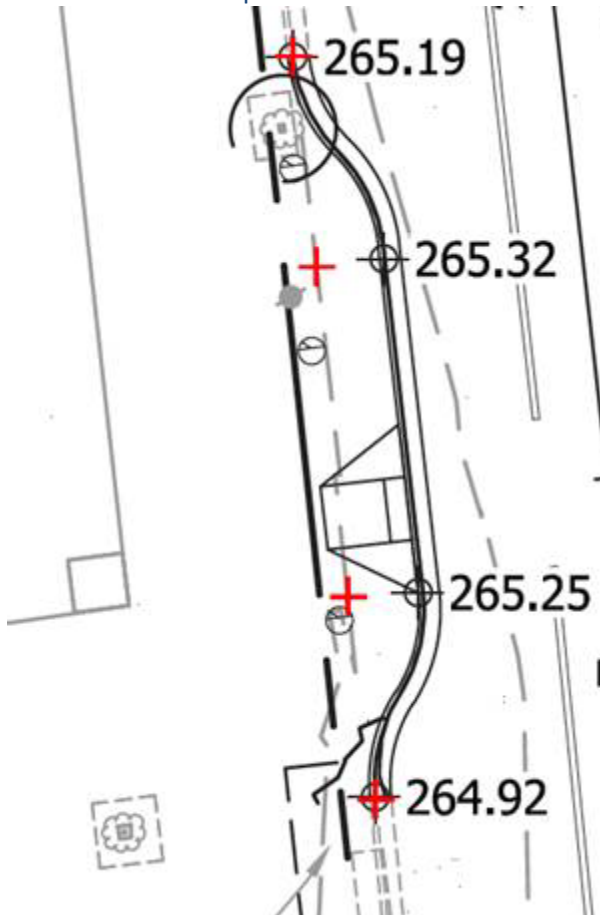
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From: Bijay Subedi <bijay@ardentcompany.com>
Sent: Tuesday, August 9, 2022 4:29 PM
To: Salihi, Sekander <Sekander.Salihi@stvinc.com>; Thomas, James [US-US] <James.Thomas@parsons.com>
Cc: Ronca, Alfonso <Alfonso.Ronca@stvinc.com>; dsmith@arlingtonva.us; Mark Mainardi <mmainardi@arlingtonva.us>; emcelhenny@arlingtonva.us; Bezabh, Demeke A. <Demeke.Bezabh@stvinc.com>; Kleinman, Jennifer [US-US] <Jennifer.Kleinman@parsons.com>; Vivek Thukral <vivek@ardentcompany.com>
Subject: [EXTERNAL] RE: RFI No. CR-3

Sekander - I will have to ask the surveyor to come out and take some elevations. He may charge couple of hundreds, should not be that much.
James- Will these 4 points work?



Thanks,
Bijay

From: Salihi, Sekander <Sekander.Salihi@stvinc.com>
Sent: Tuesday, August 9, 2022 4:04 PM
To: James.Thomas@parsons.com
Cc: Ronca, Alfonso <Alfonso.Ronca@stvinc.com>; dsmith@arlingtonva.us; Mark Mainardi <mmainardi@arlingtonva.us>; emcelhenny@arlingtonva.us; Bijay Subedi <bijay@ardentcompany.com>; Bezabh, Demeke A. <Demeke.Bezabh@stvinc.com>; Jennifer.Kleinman@parsons.com
Subject: Re: RFI No. CR-3

Hi James,

We will request Ardent to provide the existing elevation along the curblin behind the CR-3.

Sent from my iPhone

On Aug 9, 2022, at 3:31 PM, James.Thomas@parsons.com wrote:

****This e-mail is from outside STV****

Thank you Sekander.

Is there information available on the existing elevations along the curblin behind CR-3 that we can use to compare with our survey and plans? The design intent was to slope the extension towards Stuart Street for drainage so most likely the top of curb elevations can be lowered to get positive drainage. If we can confirm the existing elevations that would help with the analysis.

JAMES R. THOMAS, PE
Supervising Engineer
5875 Trinity Parkway, Suite 130, Centreville, VA 20120
james.thomas@parsons.com
Direct: +1 703.218.1084 **NEW NUMBER**
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From: Salihi, Sekander <Sekander.Salihi@stvinc.com>
Sent: Tuesday, August 9, 2022 3:18 PM
To: Thomas, James [US-US] <James.Thomas@parsons.com>
Cc: Ronca, Alfonso <Alfonso.Ronca@stvinc.com>;
dlsmith@arlingtonva.us; Mark Mainardi <mmainardi@arlingtonva.us>;
emcelhenny@arlingtonva.us; Bijay Subedi (bijay@ardentcompany.com)
<bijay@ardentcompany.com>; Bezabh, Demeke A.
<Demeke.Bezabh@stvinc.com>
Subject: [EXTERNAL] RFI No. CR-3

Hi James,

Please review the attached RFI and provide your response. Ardent is scheduled to start work on this phase of the project in very near future, so we kindly request Parsons to have a look on this RFI ASAP and provide response.

Regards,

Sekander Salihi, EIT
Resident Engineer
Ballston-MU Metro Station Area Improvements Project
Cell: 202-424-9458



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From: Vincent Verweij <Vverweij@arlingtonva.us>
Sent: Monday, August 8, 2022 3:34 PM
To: Salihi, Sekander <sekander.salihi@stvinc.com>
Cc: Ronca, Alfonso <Alfonso.Ronca@stvinc.com>; Mark Mainardi <mmainardi@arlingtonva.us>; Robin McElhenny <emcelhenny@arlingtonva.us>
Subject: RE: Condition of Existing Trees @ Planter 9 & 10

Hi Sekander,

I visited the site, and did not see any high risk issues with the trees in the planters. I do not recommend any maintenance right now.

I revisited the earlier email from this chain. Can you let me know what the timing for replacement of the original two will be?

Vincent Verweij, ISA (MA-5379A), TRAQ
Urban Forest Manager
Arlington County Department of Parks and Recreation
2700 S Taylor Street, Arlington, VA 22206
Phone: 703-228-1863
Cell: 571-436-0038
Pronouns: He/Him/His

We are updating our Urban Forest Master Plan. Provide your Input here!

<https://projects.arlingtonva.us/fnrp/>

[Schedule tree maintenance requests here](#)

[Schedule construction inspections here](#)

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From: Salihi, Sekander <Sekander.Salihi@stvinc.com>
Sent: Thursday, August 4, 2022 7:55 AM
To: Vincent Verweij <Vverweij@arlingtonva.us>
Cc: Ronca, Alfonso <Alfonso.Ronca@stvinc.com>; Mark Mainardi <mmainardi@arlingtonva.us>; Robin McElhenny <emcelhenny@arlingtonva.us>
Subject: Re: Condition of Existing Trees @ Planter 9 & 10

EXTERNAL EMAIL

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Thank you so much.

Sent from my iPhone

On Aug 3, 2022, at 5:35 PM, Vincent Verweij <Vverweij@arlingtonva.us> wrote:

****This e-mail is from outside STV****

Okay. I'll probably just recommend pruning, but I'll get back to you on Monday

Vincent Verweij, ISA (MA-5379A), TRAQ
Urban Forest Manager
Arlington County Department of Parks and Recreation
2700 S Taylor Street, Arlington, VA 22206
Phone: 703-228-1863
Cell: 571-436-0038
Pronouns: He/Him/His

We are updating our Urban Forest Master Plan. Provide your Input here!
<https://projects.arlingtonva.us/fnrp/>

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[Schedule construction inspections here](#)

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From: Salihi, Sekander <Sekander.Salihi@stvinc.com>
Sent: Wednesday, August 3, 2022 1:44 PM
To: Vincent Verweij <Vverweij@arlingtonva.us>
Cc: Ronca, Alfonso <Alfonso.Ronca@stvinc.com>; Mark Mainardi <mmainardi@arlingtonva.us>; Robin McElhenny <emcelhenny@arlingtonva.us>
Subject: RE: Condition of Existing Trees @ Planter 9 & 10

EXTERNAL EMAIL

CAUTION: This email contains file attachments. Do NOT open files that you are not expecting to receive, even from known senders.

Hi Vincent,

Some of the branches of these trees are dead, but not all.

Regards,

Sekander Salihi, EIT
Resident Engineer
Ballston-MU Metro Station Area Improvements Project
Cell: 202-424-9458



From: Vincent Verweij <Vverweij@arlingtonva.us>
Sent: Wednesday, August 3, 2022 1:31 PM
To: Salihi, Sekander <Sekander.Salihi@stvinc.com>
Cc: Ronca, Alfonso <Alfonso.Ronca@stvinc.com>; Mark Mainardi <mmainardi@arlingtonva.us>; emcelhenny@arlingtonva.us
Subject: RE: Condition of Existing Trees @ Planter 9 & 10

****This e-mail is from outside STV****

Hi Sekander,

I can make a site visit next week. Are these trees dead or high risk?

Vincent Verweij, ISA (MA-5379A), TRAQ
Urban Forest Manager
Arlington County Department of Parks and Recreation
2700 S Taylor Street, Arlington, VA 22206
Phone: 703-228-1863
Cell: 571-436-0038
Pronouns: He/Him/His

We are updating our Urban Forest Master Plan. Provide your Input here!

<https://projects.arlingtonva.us/fnrp/>

[Schedule tree maintenance requests here](#)

[Schedule construction inspections here](#)

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From: Salihi, Sekander <Sekander.Salihi@stvinc.com>
Sent: Wednesday, August 3, 2022 1:23 PM
To: Vincent Verweij <Vverweij@arlingtonva.us>
Cc: Ronca, Alfonso <Alfonso.Ronca@stvinc.com>; Mark Mainardi <mmainardi@arlingtonva.us>; Robin McElhenny <emcelhenny@arlingtonva.us>
Subject: RE: Condition of Existing Trees @ Planter 9 & 10

EXTERNAL EMAIL

CAUTION: This email contains file attachments. Do NOT open files that you are not expecting to receive, even from known senders.

Good Afternoon Vincent,

Building management at Ballston project requested for removal of remaining trees @planter 9 and 10. Ardent, the general contractor, has already removed those two dead trees which were identified during your last winter site visit. Can you please make a quick site visit to make a determination on removal of remaining trees at these two planters?

Regards,

Sekander Salihi, EIT
Resident Engineer
Ballston-MU Metro Station Area Improvements Project
Cell: 202-424-9458

