

### ARLINGTON COUNTY, VIRGINIA OFFICE OF THE PURCHASING AGENT 2100 CLARENDON BOULEVARD, SUITE 500 ARLINGTON, VIRGINIA 22201

### **CONTRACT AWARD COVERPAGE**

TO: SAGRES CONSTRUCTION CORPORATION DATE ISSUED: MARCH 31, 2022

3680 WHEELER AVENUE, SUITE 300 CONTRACT NO: 22-DES-ITB-560

ALEXANDRIA, VIRGINIA 22304 CONTRACT TITLE: Fort Myer Heights Watermain

Improvement Project

### THIS IS A NOTICE OF AWARD OF CONTRACT AND NOT AN ORDER. NO WORK IS AUTHORIZED UNTIL THE VENDOR RECEIVES A VALID COUNTY PURCHASE ORDER ENCUMBERING CONTRACT FUNDS.

The contract documents consist of the terms and conditions of AGREEMENT No. 22-DES-ITB-560 including any attachments or amendments thereto.

**EFFECTIVE DATE:** APRIL 1, 2022 **EXPIRES:** FEBRUARY 28, 2023

**RENEWALS: NONE** 

**COMMODITY CODE(S)**: 95926,91359

LIVING WAGE: N

**ATTACHMENTS**:

AGREEMENT No. 22-DES-ITB-560

### **EMPLOYEES NOT TO BENEFIT:**

NO COUNTY EMPLOYEE SHALL RECEIVE ANY SHARE OR BENEFIT OF THIS CONTRACT NOT AVAILABLE TO THE GENERAL PUBLIC.

<u>VENDOR CONTACT:</u> DEJAN DRAGACEVAC <u>VENDOR TEL. NO.:</u> (703) 924-7220

EMAIL ADDRESS: DAN@SAGRESCONSTRUCTION.COM

COUNTY CONTACT: NICK TAKTAK (DES AND ENG) COUNTY TEL. NO.: (703) 228-7527

COUNTY CONTACT EMAIL: NTAKTAK@ARLINGTONVA.US

### PURCHASING DIVISION AUTHORIZATION

Sy Gezachew Title: Procurement Officer Date march 31, 2022



### ARLINGTON COUNTY, VIRGINIA OFFICE OF THE PURCHASING AGENT SUITE 500, 2100 CLARENDON BOULEVARD ARLINGTON, VA 22201

### AGREEMENT NO. 22-DES-ITB-560

THIS AGREEMENT is made, on \_\_\_\_\_\_\_, between Sagres Construction Corporation, 3680 Wheeler Avenue, Suite 300, Alexandria, Virginia 22304 ("Contractor") a Virginia corporation authorized to do business in the Commonwealth of Virginia, and the County Board of Arlington County, Virginia ("County"). The County and the Contractor, for the consideration hereinafter specified, agree as follows:

### 1. CONTRACT DOCUMENTS

The Contract Documents consist of:

- Agreement No. 22-DES-ITB-560, and all modifications properly incorporated into the Agreement
- Exhibit A Arlington County Invitation to Bid No. 22-DES-ITB-560, including DES General Conditions, Special Conditions, and Supplementary Specifications, incorporated herein by reference.
- Exhibit B Specifications, Drawings and Construction Notes
- Exhibit C Price Bid of Contractor
- Exhibit D VDOT Lane Closure Guidelines
- Exhibit E VDOT Permit
- Exhibit F Arlington County materials testing Specification Reference
- Exhibit G RFI Form Template
- Exhibit H Test Holes Reports
- Exhibit I List of State and Federal Roads in Arlington County
- Exhibit J LDA Permit
- Exhibit K Special Provisions for Pavement Open Cut
- Exhibit L Insurance Coverage Checklist

Where the terms and provisions of this Agreement vary from the terms and provisions of the other Contract Documents, the terms and provisions of this Agreement will prevail over the other Contract Documents, and the remaining Contract Documents will be complementary to each other. If there are any conflicts, the most stringent terms or provisions will prevail.

The Contract Documents set forth the entire agreement between the County and the Contractor. The County and the Contractor agree that no representative or agent of either party has made any representation or promise with respect to the parties' agreement that is not contained in the Contract Documents. The Contract Documents may be referred to below as the "Contract" or the "Agreement".

### 2. SCOPE OF WORK

The Contractor will furnish all labor, materials, and equipment for the construction of Fort Myer Heights Watermain Improvement Project (the "Project") and all other work shown, described, and required by the Contract Documents (hereinafter "the Work").

The Work shall be performed according to the standards established by the Contract Documents read together as a single specification. It shall be the Contractor's responsibility, at solely the Contractor's cost, to provide sufficient services to fulfill the purposes of the Work. Nothing in the Contract Documents shall be construed to limit the Contractor's responsibility to manage the details and execution of its Work.

### 3. PROJECT OFFICER

The performance of the Contractor is subject to the review and approval of the County Project Officer identified in Section 53, Notices, unless the Contractor is otherwise notified in writing.

The County has authorized the consultant identified below to act as the County representative for specific purposes to perform specified duties and responsibilities, and to have the rights and authorities as assigned in connection with completion of the Work in accordance with the Contract Documents until such time as the County may notify the Contractor otherwise:

Volkert, Inc. 6225 Brandon Avenue, Suite 540 Springfield, VA 22150

The County will notify the Contractor after contract award of the specific roles and responsibilities of the Consultant(s).

### 4. TIME FOR COMPLETION

Work under this Agreement shall achieve Substantial Completion no later than two hundred forty-three (243) consecutive calendar days after the commencement date given in a Notice to Proceed provided by the County to the Contractor, subject to any modifications made as provided for in the Contract Documents. This two hundred forty-three (243) day period shall be the Period of Performance for Substantial Completion. No Work shall be deemed Substantially Complete until it meets the requirements of Substantial Completion set forth in the General Conditions. Final Completion of the Work shall be completed no later than thirty (30) calendar days after the date of acceptance of Substantial Completion by the County Project Officer. Work will not reach Final Completion until it meets the requirements set forth in the General Conditions.

Unless otherwise provided, no claims for early completion are allowed.

### 5. <u>CONTRACT AMOUNT</u>

The County will pay the Contractor in accordance with the terms of the Progress Payments and Retainage and Payment Terms sections below and at the prices shown in Exhibit C for the Contractor's completion of the Work as required by the Contract Documents provided the Work is performed to the satisfaction of and is accepted by the Project Officer. The Contractor will complete the Work for the total amount specified in this section ("Contract Amount") unless such amount is modified as provided in this Agreement. The Contract Amount includes all of the Contractor's costs and fees (profit) and is inclusive of all anticipated or known site conditions, anticipated or known materials, labor, and equipment costs, or any other costs which should reasonably have been expected by the Contract Documents.

### 6. PROGRESS PAYMENTS AND RETAINAGE

The County will make monthly progress payments to the Contractor upon written application by the Contractor, on the basis of a written estimate of the work performed during the preceding calendar month as approved by the Project Officer. However, 5% of each progress payment will be retained by the County until Final Completion and acceptance of all Work covered by the Agreement.

All material and work covered by partial payments will become the property solely of the County at the time the partial payment is made. However, the Contractor will have the sole responsibility, care and custody for all materials and work upon which payments have been made until Substantial Completion. When calculating payment for materials on-site, the County shall not pay for materials which are not scheduled for incorporation into the Work within sixty (60) days from the date of application for payment.

### 7. PAYMENT TERMS

The Contractor must submit invoices to the County's Project Officer, who will either approve the invoice or require corrections. The County will pay the Contractor 45 days after approval of an invoice for completed work which is reasonable and allocable to the Contract. The number of the County Purchase Order pursuant to work has been performed must appear on all invoices.

### 8. PAYMENT OF SUBCONTRACTORS

The Contractor is obligated to take one of the two following actions within seven days after receipt of payment by the County for work performed by any subcontractor under this Contract:

- a. Pay the subcontractor for the proportionate share of the total payment received from the County attributable to the work performed by the subcontractor under this Contract; or
- b. Notify the County and the subcontractor, in writing, of the Contractor's intention to withhold all or a part of the subcontractor's payment with the reason for nonpayment.

The Contractor is obligated to pay interest to the subcontractor on all amounts owed by the Contractor to the subcontractor that remain unpaid after seven days following receipt by the Contractor of payment from the County for work performed by the subcontractor under this Contract, except for amounts withheld as allowed in subsection b., above. Unless otherwise provided under the terms of this Contract, interest will accrue at the rate of 1% per month.

The Contractor must include in each of its subcontracts, if any are permitted, a provision requiring each subcontractor to include or otherwise be subject to the same payment and interest requirements with respect to each lower-tier subcontractor.

The Contractor's obligation to pay an interest charge to a subcontractor pursuant to this section may not be construed to be an obligation of the County. A Contract modification may not be made for the purpose of providing reimbursement for such interest charge. A cost reimbursement claim may not include any amount for reimbursement for such interest charge.

### 9. RELEASE AND REQUEST FOR FINAL PAYMENT

In order to receive final payment upon Final Completion of the Project and before Final Acceptance, the Contractor must submit to the Project Officer a signed original notarized copy of the Arlington County Release and Request for Final Payment form per the General Conditions.

### 10. LIQUIDATED DAMAGES

Time is of the essence under this Contract. The Work must be completed within the Time for Completion. The County and the Contractor agree that damages for failure to achieve Substantial Completion of the Work by the date specified under Time for Completion are not susceptible to exact determination but that \$1,758.00 per calendar day is in proportion to the actual loss that the County would suffer from such delay. Therefore, the Contractor will pay the County as liquidated damages \$1,758.00 per day for each and every day beyond the time for Substantial Completion that the County determines Substantial Completion has not achieved. The County and the Contractor also agree that damages for failure to achieve Final Completion of the Work by the date specified under Time for Completion are not susceptible to exact determination but that \$1,758.00 per calendar day is in proportion to the actual loss the County would suffer from such delay. Therefore, the Contractor will pay the County as liquidated damages \$1,758.00 per day for each and every day beyond the time for Final Completion until Final Completion is achieved.

The County will be entitled to deduct liquidated damages against any sums owed by the County to the Contractor under this Contract. The Contractor hereby waives any defense as to the validity of any liquidated damages on grounds that such liquidated damages are void as penalties or are not reasonably related to actual damages.

### 11. PERFORMANCE OF WORK BY THE CONTRACTOR

The Contractor shall perform on site, and with its own organization, at least seventy-five percent (75%) of the total work in place to be performed under the Contract. Prior to award, the Contractor must demonstrate to the Project Officer's satisfaction that both of these standards will be met during contract performance. Labor and work to be counted when determining whether the Contractor has met the self-performance requirement shall not include any work that the Contractor performs under the supervision of a subcontractor.

The self-performance percentage may be reduced by an Amendment to the Contract, if during performance of the Work, the Contractor requests a reduction and the Project Officer determines that the reduction would be to the advantage of the County.

### 12. NON-APPROPRIATION

All payments by the County to the Contractor pursuant to this Contract are subject to the availability of an annual appropriation for this purpose by the County Board of Arlington County, Virginia ("Board"). In the event that the Board does not appropriate funds for the goods or services provided under this Contract, the County will terminate the Contract, without termination charge or other liability to the County, on the last day of the fiscal year or when the previous appropriation has been spent, whichever occurs first.

### 13. ESTIMATED QUANTITIES/NON-EXCLUSIVITY OF CONTRACTOR

This Contract does not obligate the County to purchase a specific quantity of items or services during Contract Term. Any quantities that are included in the Contract Documents are the present expectations of the County for the period of the Contract; and the County is under no obligation to buy that or any amount as a result of having provided this estimate or of having had any normal or otherwise measurable requirement in the past. The County may require more goods and/or services than the estimated annual quantities, and any such additional quantities will not give rise to any claim for compensation other than at the unit prices and/or rates in the Contract.

The County does not guarantee that the Contractor will be the exclusive provider of the goods or services covered by this Contract. The items or services covered by this Contract may be or become available under other County contract(s), and the County may determine that it is in its best interest to procure the items or services through those contract(s).

### 14. COUNTY PURCHASE ORDER REQUIREMENT

County purchases are authorized only if the County issues a Purchase Order in advance of the transaction, indicating that the ordering County agency has sufficient funds available to pay for the purchase. If the Contractor provides goods or services without a signed County Purchase Order, it does so at its own risk and expense. The County will not be liable for payment for any purchases made by its employees that are not authorized by the County Purchasing Agent.

### **15.** LIEN

It is expressly agreed that after any payment has been made by the County either to the Contractor for work done, or labor or material supplied under the Contract, the County will have a lien upon all material delivered to the site either by the Contractor, or for the Contractor, which is to be used in the performance of the Contract.

### 16. VALUE ENGINEERING PROPOSAL (VE)

Unless otherwise provided, the Contractor may submit to the County a written VE for modifying the plans, specifications, or other requirements of the Agreement covering the work (Contract) for the purpose of reducing the total cost of the Contract without reducing the design capacity or quality of the finished product. If the VEP is accepted by the County, the net savings will be equally divided by the County and the Contractor.

Each VEP shall result in a net savings over the Contract cost without impairing essential functions and characteristics of the item(s) or of any other part of the project, including, but not limited to, service life, reliability, economy of operation, ease of maintenance, aesthetics, and safety. At least the following information shall be submitted with each VE:

- (a) a statement that the proposal is submitted as a VE;
- (b) a statement concerning the basis for the VE, benefits to the County, and an itemization of the Contract items and requirements affected by the VE;
- (c) a detailed estimate of the cost under the existing Contract and under the VE;
- (d) proposed specifications and recommendations as to the manner in which the VE changes are to be accomplished; and
- (e) a statement as to the time by which a Contract Amendment adopting the VE must be issued so as to obtain the maximum cost-effectiveness.

The County will process the VE in the same manner as prescribed for any other proposal that would necessitate issuance of an Amendment. The County may accept a VE in whole or part by issuing an Amendment that will identify the VE on which it is based. The County will not be liable to the Contractor for failure to accept or act on any VE submitted pursuant to these requirements or for delays in the work attributable to any VE. Until a VE is put into effect by an Amendment, the Contractor shall remain

obligated to the terms and conditions of the existing Agreement. If an executed Amendment has not been issued by the date on which the Contractor's proposal specifies that a decision should be made or such other date as the Contractor may subsequently have specified in writing, the VE shall be deemed rejected.

The Amendment effecting the necessary modification of the Contract will establish the net savings agreed on, provide for adjustment of the contract prices, and indicate the net savings. The Contractor shall absorb all costs incurred in preparing a VE. Reasonably incurred costs for reviewing and administering a VE will be borne by the County. The County may establish any reasonable conditions it deems appropriate for consideration, approval, and implementation of the VE. The Contractor's 50 percent share of the net savings shall constitute full compensation to it, including by way of illustration and not limitation compensation for time, for effecting all changes pursuant to the Amendment.

Unless specifically provided for in the Amendment authorizing the VE, acceptance of the VE and performance of the work thereunder will not change the Contract Term limit.

The County may adopt a VE for general use in contracts administered by the County if it determines that the VE is suitable for application to other contracts. A VE identical with or similar to a previously submitted VE will be eligible for consideration and compensation under these provisions if it has not been previously adopted for general application to other contracts administered by the County. When a VE is adopted for general use, compensation pursuant to these requirements will be applied only to those awarded contracts for which the VE was submitted prior to the date of adoption of the VE.

If a VEP is based on or is similar to a change in the plans, specifications, or special provisions adopted by the County prior to submission of the VE, as determined by the County, the County will not accept the VE.

The County will be the sole judge of the acceptability of a VE. The requirements herein apply to each VE initiated, developed, and identified as such by the Contractor at the time of its submission to the County. However, nothing herein shall be construed as requiring the County to consider or approve a VE, and the decision to enter into an Amendment to the contract to accommodate a VE shall be in the County's sole discretion.

Subject to the provisions contained herein, the County, or any other public agency with the County's permission, shall have the right to use all or part of an accepted VE without obligation or compensation of any kind to the Contractor.

If a VE is accepted by the County, any provisions herein that pertain to the adjustment of contract unit prices attributable to alterations of contract quantities will not apply to the items adjusted or deleted as a result of putting the VE into effect by an Amendment.

### 17. <u>EMPLOYMENT DISCRIMINATION BY CONTRACTOR PROHIBITED</u>

During the performance of its work pursuant to this Contract:

A. The Contractor will not discriminate against any employee or applicant for employment because of race, religion, color, sex, sexual orientation, gender identity, national origin, age, disability or on any other basis prohibited by state law. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.

- B. Notices, advertisements and solicitations placed in accordance with federal law, rule or regulation will be deemed sufficient for meeting the requirements of this section.
- C. The Contractor will state in all solicitations or advertisements for employees that it places or causes to be placed that such Contractor is an Equal Opportunity Employer.
- D. The Contractor will comply with the provisions of the Americans with Disabilities Act of 1990 ("ADA"), which prohibits discrimination against individuals with disabilities in employment and mandates that disabled individuals be provided access to publicly and privately provided services and activities.
- E. The Contractor must include the provisions of the foregoing paragraphs in every subcontract or purchase order of more than \$10,000.00 relating to this Contract so that the provisions will be binding upon each subcontractor or vendor.

### 18. <u>EMPLOYMENT OF UNAUTHORIZED ALIENS PROHIBITED</u>

In accordance with §2.2-4311.1 of the Code of Virginia, as amended, the Contractor must not during the performance of this Contract knowingly employ an unauthorized alien, as that term is defined in the federal Immigration Reform and Control Act of 1986.

### 19. DRUG-FREE WORKPLACE TO BE MAINTAINED BY CONTRACTOR

During the performance of this Contract, the Contractor must: (i) provide a drug-free workplace for its employees; (ii) post in conspicuous places, available to employees and applicants for employment, a statement notifying employees that the unlawful manufacture, sale, distribution, dispensation, possession, or use of a controlled substance or marijuana is prohibited in the Contractor's workplace and specifying the actions that will be taken against employees for violating such prohibition; (iii) state in all solicitations or advertisements for employees placed by or on behalf of the Contractor that the Contractor maintains a drug-free workplace; and (iv) include the provisions of the foregoing clauses in every subcontract or purchase order of more than \$10,000.00 relating to this Contract so that the provisions will be binding upon each subcontractor or vendor.

For the purposes of this section, "workplace" means the site(s) for the performance of the work required by this Contract.

### 20. \*SEXUAL HARASSMENT POLICY

If the Contractor employs more than five employees, the Contractor shall (i) provide annual training on the Contractor's sexual harassment policy to all supervisors and employees providing services in the Commonwealth, except such supervisors or employees that are required to complete sexual harassment training provided by the Department of Human Resource Management, and (ii) post the Contractor's sexual harassment policy in (a) a conspicuous public place in each building located in the Commonwealth that the Contractor owns or leases for business purposes and (b) the Contractor's employee handbook.

### 21. COVID-19 VACCINATION POLICY FOR CONTRACTORS

Due to the ongoing COVID-19 pandemic, the County has taken various steps to protect the welfare, health, safety, and comfort of the workforce and public at large. As part of these steps, the County has implemented various requirements with respect to health and safety including policies with respect to social distancing, the use of face-coverings and vaccine mandates. To protect the County's workforce and the public at large, all employees and subcontractors of the Contractor who are assigned to this Contract,

should be fully vaccinated against COVID-19. Any contractor employee or subcontractor who is not fully vaccinated should be following a weekly testing protocol as established by the Contractor, unless exempt pursuant to a valid reasonable accommodation under state or federal law.

### 22. PROJECT STAFF

The County has the right to reasonably reject staff or subcontractors whom the Contractor assigns to the Project. The Contractor must then provide replacement staff or subcontractors satisfactory to the County in a timely manner and at no additional cost to the County. The day-to-day supervision and control of the Contractor's employees and its subcontractors is the sole responsibility of the Contractor.

### 23. FAILURE TO DELIVER

If the Contractor fails to deliver goods or services in accordance with the Contract terms and conditions, the County, after notice to the Contractor, may procure the goods or services from other sources and hold the Contractor responsible for any resulting additional purchase and administrative costs. The County shall be entitled to offset such costs against any sums owed by the County to the Contractor. However, if public necessity requires the use of nonconforming materials or supplies, they may be accepted at a reduction in price to be determined solely by the County.

### 24. <u>UNSATISFACTORY WORK</u>

If any of the work done, or material, goods, or equipment provided by the Contractor, is unsatisfactory to the County the Contractor must, upon notice from the County, immediately remove at the Contractor's expense such unsatisfactory work, material, goods, or equipment and replace the same with work, material, goods, or equipment satisfactory to the County. If the Contractor fails to do so after fifteen (15) days the County shall have the right to remove or replace the rejected work, material, goods, or equipment at the expense of the Contractor and offset the expense and administrative costs against any sums owed to the Contractor. This provision applies during the Contract term and during any warranty or guarantee period. At the Project Officer's discretion, rather than correction or replacement of the work, an appropriate adjustment to the Contract Amount may be made.

### 25. TERMINATION

The County may terminate this Contract at any time as follows: (1) for cause, if, as determined by the County, the Contractor is in breach or default or has failed to perform the Work satisfactorily; or (2) for the convenience of the County.

Upon receipt of a notice of termination, the Contractor must not place any further orders or subcontracts for materials, services or facilities; must terminate all vendors and subcontracts, except as are necessary for the completion of any portion of the Work that the County did not terminate; and must immediately deliver all documents related to the terminated Work to the County.

Any purchases that the Contractor makes after the notice of termination will be the sole responsibility of the Contractor, unless the County has approved the purchases in writing as necessary for completion of any portion of the Work that the County did not terminate.

If any court of competent jurisdiction finds a termination for cause by the County to be improper, then the termination will be deemed a termination for convenience.

### A. TERMINATION FOR CAUSE, INCLUDING BREACH AND DEFAULT; CURE

 Termination for Unsatisfactory Performance. If the County determines that the Contractor has failed to perform satisfactorily, then the County will give the Contractor

written notice of such failure(s) and the opportunity to cure them within 15 days or any other period specified by the County ("Cure Period"). If the Contractor fails to cure within the Cure Period, the County may terminate the Contract for failure to provide satisfactory performance by providing written notice with a termination date. Upon such termination, the Contractor may apply for compensation for Contract services that the County previously accepted ("Termination Costs"), unless payment is otherwise barred by the Contract. The Contractor must submit any request for Termination Costs, with all supporting documentation, to the County Project Officer within 30 days after the expiration of the Cure Period. The County may accept or reject the request for Termination Costs, in whole or in part, and may notify the Contractor of its decision within a reasonable time.

In the event of termination by the County for failure to perform satisfactorily, the Contractor must continue to provide its services as previously scheduled through the termination date, and the County must continue to pay all fees and charges incurred through the termination date.

2. <u>Termination for Breach or Default</u>. If the County terminates the Contract for default or breach of any Contract provision or condition, then the termination will be immediate after notice of termination to the Contractor (unless the County provides for an opportunity to cure), and the Contractor will not be permitted to seek Termination Costs.

Upon any termination pursuant to this section, the Contractor will be liable to the County for costs that the County must expend to complete the Work, including costs resulting from any related delays and from unsatisfactory or non-compliant work performed by the Contractor or its subcontractors. The County will deduct such costs from any amount due to the Contractor; or if the County does not owe the Contractor, the Contractor must promptly pay the costs within 15 days of a demand by the County. This section does not limit the County's recovery of any other damages to which it is entitled by law.

Except as otherwise directed by the County, the Contractor must stop work on the date of receipt the notice of the termination.

### B. TERMINATION FOR THE CONVENIENCE OF THE COUNTY

The County may terminate this Contract in whole or in part whenever the Purchasing Agent determines that termination is in the County's best interest. The County will give the Contractor at least 15 days' notice in writing. The notice must specify the extent to which the Contract is terminated and the effective termination date. The Contractor will be entitled to Termination Costs, as defined above, plus any other reasonable amounts that the parties might negotiate; but no amount will be allowed for anticipatory profits.

Except as otherwise directed by the County, the Contractor must stop work on the date of receipt of the notice of the termination.

### 26. <u>INDEMNIFICATION</u>

The Contractor covenants for itself, its employees and its subcontractors to save, defend, hold harmless and indemnify the County and all of its elected and appointed officials, officers, current and former employees, agents, departments, agencies, boards and commissions (collectively the "County Indemnitees") from and against any and all claims made by third parties for any and all losses, damages, injuries, fines, penalties, costs (including court costs and attorneys' fees), charges, liability, demands or exposure resulting from, arising out of or in any way connected with the Contractor's acts or omissions, including the acts or omissions of its employees, vendors, delivery drivers and/or subcontractors, in performance or nonperformance of the Contract. This duty to save, defend, hold harmless and indemnify will survive the termination of this Contract. If the Contractor fails or refuses to fulfill its obligations contained in this section, the Contractor must reimburse the County for any and all resulting payments and expenses, including reasonable attorneys' fees. The Contractor must pay such expenses upon demand by the County, and failure to do so may result in the County withholding such amounts from any payments to the Contractor under this Contract.

### 27. <u>INTELLECTUAL PROPERTY INDEMNIFICATION</u>

The Contractor warrants and guarantees that in providing services under this Contract neither the Contractor nor any subcontractor is infringing on the intellectual property rights (including, but not limited to, copyright, patent, mask and trademark) of third parties.

If the Contractor or any of its employees or subcontractors uses any design, device, work or material that is covered by patent or copyright, it is understood that the Contract Amount includes all royalties, licensing fees, and any other costs arising from such use in connection with the Work under this Contract.

The Contractor covenants for itself, its employees and its subcontractors to save, defend, hold harmless, and indemnify the County Indemnitees, as defined above, from and against any and all claims, losses, damages, injuries, fines, penalties, costs (including court costs and attorneys' fees), charges, liability or exposure for infringement of or on account of any trademark, copyright, patented or unpatented invention, process or article manufactured or used in the performance of this Contract. This duty to save, defend, hold harmless and indemnify will survive the termination of this Contract. If the Contractor fails or refuses to fulfill its obligations contained in this section, the Contractor must reimburse the County for any and all resulting payments and expenses, including reasonable attorneys' fees. The Contractor must pay such expenses upon demand by the County, and failure to do so may result in the County withholding such amounts from any payments to the Contractor under this Contract.

### 28. COPYRIGHT

By this Contract, the Contractor irrevocably transfers, assigns, sets over and conveys to the County all rights, title and interest, including the sole exclusive and complete copyright interest, in any and all copyrightable works created pursuant to this Contract. The Contractor will execute any documents that the County requests to formalize such transfer or assignment.

The rights granted to the County by this section are irrevocable and may not be rescinded or modified, including in connection with or as a result of the termination of or a dispute concerning this Contract.

The Contractor may not use subcontractors or third parties to develop or provide input into any copyrightable materials produced pursuant to this Contract without the County's advance written approval and unless the Contractor includes this Copyright provision in any contract or agreement with such subcontractors or third parties related to this Contract.

### 29. OWNERSHIP AND RETURN OF RECORDS

This Contract does not confer on the Contractor any ownership rights or rights to use or disclose the County's data or inputs.

All drawings, specifications, blueprints, data, information, findings, memoranda, correspondence, documents or records of any type, whether written, oral or electronic, and all documents generated by the Contractor or its subcontractors as a result of this Contract (collectively "Records") are the exclusive property of the County and must be provided or returned to the County upon completion, termination, or cancellation of this Contract. The Contractor will not use or willingly cause or allow such materials to be used for any purpose other than performance of this Contract without the written consent of the County.

The Records are confidential, and the Contractor will neither release the Records nor share their contents. The Contractor will refer all inquiries regarding the status of any Record to the Project Officer or to his or her designee. At the County's request, the Contractor will deliver all Records, including hard copies of electronic records, to the Project Officer and will destroy all electronic Records.

The Contractor agrees to include the provisions of this section as part of any contract or agreement related to this Contract into which it enters with subcontractors or other third parties.

The provisions of this section will survive any termination or cancellation of this Contract.

### 30. CONFIDENTIAL INFORMATION

The Contractor and its employees, agents and subcontractors will hold as confidential all County information obtained under this Contract. Confidential information includes, but is not limited to, nonpublic personal information; personal health information (PHI); social security numbers; addresses; dates of birth; other contact information or medical information about a person; and information pertaining to products, operations, systems, customers, prospective customers, techniques, intentions, processes, plans and expertise. The Contractor must take reasonable measures to ensure that all of its employees, agents and subcontractors are informed of and abide by this requirement.

### 31. ETHICS IN PUBLIC CONTRACTING

This Contract incorporates by reference Article 9 of the Arlington County Purchasing Resolution, as well as all state and federal laws related to ethics, conflicts of interest or bribery, including the State and Local Government Conflict of Interests Act (Code of Virginia § 2.2-3100 et seq.), the Virginia Governmental Frauds Act (Code of Virginia § 18.2-498.1 et seq.) and Articles 2 and 3 of Chapter 10 of Title 18.2 of the Code of Virginia, as amended (§ 18.2-438 et seq.). The Contractor certifies that its bid was made without collusion or fraud; that it has not offered or received any kickbacks or inducements from any other offeror, supplier, manufacturer or subcontractor; and that it has not conferred on any public employee having official responsibility for this procurement any payment, loan, subscription, advance, deposit of money, services or anything of more than nominal value, present or promised, unless consideration of substantially equal or greater value was exchanged.

### 32. COUNTY EMPLOYEES

No Arlington County employee may share in any part of this Contract or receive any benefit from the Contract that is not available to the general public.

### 33. FORCE MAJEURE

Neither party will be held responsible for failure to perform the duties and responsibilities imposed by this Contract if such failure is due to a fire, riot, rebellion, natural disaster, war, act of terrorism or act of God that is beyond the control of the party and that makes performance impossible or illegal, unless otherwise specified in the Contract.

### 34. <u>AUTHORITY TO TRANSACT BUSINESS</u>

The Contractor must, pursuant to Code of Virginia § 2.2-4311.2, be and remain authorized to transact business in the Commonwealth of Virginia during the entire term of this Contract. Otherwise, the Contract is voidable at the sole option of and with no expense to the County.

### 35. RELATION TO THE COUNTY

The Contractor is an independent contractor, and neither the Contractor nor its employees or subcontractors will be considered employees, servants or agents of the County. The County will not be responsible for any negligence or other wrongdoing by the Contractor or its employees, servants or agents. The County will not withhold payments to the Contractor for any federal or state unemployment taxes, federal or state income taxes or Social Security tax or for any other benefits. The County will not provide to the Contractor any insurance coverage or other benefits, including workers' compensation.

### 36. ANTITRUST

The Contractor conveys, sells, assigns and transfers to the County all rights, title and interest in and to all causes of action under state or federal antitrust laws that the Contractor may have relating to this Contract.

### 37. REPORT STANDARDS

The Contractor must submit all written reports required by this Contract for advance review in a format approved by the Project Officer. Reports must be accurate and grammatically correct and should not contain spelling errors. The Contractor will bear the cost of correcting grammatical or spelling errors and inaccurate report data and of other revisions that are required to bring the report(s) into compliance with this section.

Whenever possible, proposals must comply with the following guidelines:

- printed double-sided on at least 30% recycled-content and/or tree-free paper
- recyclable and/or easily removable covers or binders made from recycled materials (proposals with glued bindings that meet all other requirements are acceptable)
- avoid use of plastic covers or dividers
- avoid unnecessary attachments or documents or superfluous use of paper (e.g. separate title sheets or chapter dividers)

### 38. AUDIT

The Contractor must retain all books, records and other documents related to this Contract for at least five years, or such period of time required by the County's funding partner(s), if any, whichever is greater, after the final payment and must allow the County or its authorized agents to examine the documents during this period and during the Contract Term. The Contractor must provide any requested documents to the County for examination within 15 days of the request, at the Contractor's expense. Should the County's examination reveal any overcharging by the Contractor, the Contractor must, within 30 days of County's request, reimburse the County for the overcharges and for the reasonable costs of the County's

examination, including, but not limited to, the services of external audit firm and attorney's fees; or the County may deduct the overcharges and examination costs from any amount that the County owes to the Contractor. If the Contractor wishes to destroy or dispose of any records related to this Contract (including confidential records to which the County does not have ready access) within five years after the final payment, or such period of time required by the County's funding partner(s), if any, whichever is greater, the Contractor must give the County at least 30 days' notice and must not dispose of the documents if the County objects.

The Purchasing Agent may require the Contractor to demonstrate that it has the necessary facilities, ability, and financial resources to comply with the Contract and furnish the service, material or goods specified herein in a satisfactory manner at any time during the term of this Contract.

### 39. ASSIGNMENT

The Contractor may not assign, transfer, convey or otherwise dispose of any award or any of its rights, obligations or interests under this Contract without the prior written consent of the County.

### 40. <u>AMENDMENTS</u>

This Contract may not be modified except by written amendment executed by persons duly authorized to bind the Contractor and the County.

### 41. ARLINGTON COUNTY PURCHASING RESOLUTION AND COUNTY POLICIES

Nothing in this Contract waives any provision of the Arlington County Purchasing Resolution, which is incorporated herein by reference, or any applicable County policy.

### 42. DISPUTE RESOLUTION

All disputes arising under this Agreement or concerning its interpretation, whether involving law or fact and including but not limited to claims for additional work, compensation or time, and all claims for alleged breach of contract must be submitted in writing to the Project Officer as soon as the basis for the claim arises. In accordance with the Arlington County Purchasing Resolution, claims denied by the Project Officer may be submitted to the County Manager in writing no later than 60 days after the final payment. The time limit for a final written decision by the County Manager is 30 days. Procedures concerning contractual claims, disputes, administrative appeals and protests are contained in the Arlington County Purchasing Resolution. The Contractor must continue to work as scheduled pending a decision of the Project Officer, County Manager, County Board or a court of law.

### 43. APPLICABLE LAW, FORUM, VENUE, AND JURISDICTION

This Contract is governed in all respects by the laws of the Commonwealth of Virginia; and the jurisdiction, forum and venue for any litigation concerning the Contract or the Work is in the Circuit Court for Arlington County, Virginia, and in no other court.

### 44. <u>ARBITRATION</u>

No claim arising under or related to this Contract may be subject to arbitration.

### 45. NONEXCLUSIVITY OF REMEDIES

All remedies available to the County under this Contract are cumulative, and no remedy will be exclusive of any other at law or in equity.

### 46. NO WAIVER

The failure to exercise a right provided for in this Contract will not be a subsequent waiver of the same right or of any other right.

### 47. **SEVERABILITY**

The sections, paragraphs, clauses, sentences, and phrases of this Contract are severable; and if any section, paragraph, clause, sentence or phrase of this Contract is declared invalid by a court of competent jurisdiction, the rest of the Contract will remain in effect.

### 48. ATTORNEY'S FEES

In the event that the County prevails in any legal action or proceeding brought by the County to enforce any provision of this Contract, the Contractor will pay the County's reasonable attorney's fees and expenses.

### 49. SURVIVAL OF TERMS

In addition to any statement that a specific term or paragraph survives the expiration or termination of this Contract, the following sections also survive: INDEMNIFICATION; INTELLECTUAL PROPERTY INDEMNIFICATION; RELATION TO COUNTY; OWNERSHIP AND RETURN OF RECORDS; AUDIT; COPYRIGHT; DISPUTE RESOLUTION; APPLICABLE LAW AND JURISDICTION; ATTORNEY'S FEES, AND CONFIDENTIAL INFORMATION.

### 50. HEADINGS

The section headings in this Contract are inserted only for convenience and do not affect the substance of the Contract or limit the sections' scope.

### 51. AMBIGUITIES

The parties and their counsel have participated fully in the drafting of this Agreement; and any rule that ambiguities are to be resolved against the drafting party does not apply. The language in this Agreement is to be interpreted as to its plain meaning and not strictly for or against any party.

### 52. NOTICES

Unless otherwise provided in writing, all legal notices and other formal communications required by this Contract are deemed to have been given when either (a) delivered in person; (b) delivered by an agent, such as a delivery service; or (c) deposited in the United States mail, postage prepaid, certified or registered and addressed as follows:

### TO THE CONTRACTOR:

Dejan Dragacevac 3680 Wheeler Ave., Suite 300 Alexandria, Virginia 22304 Tel. (703) 924.7220 Email. dan@sagresconstruction.com

### TO THE COUNTY:

Kamal Taktak, Project Officer
Department of Environmental Services – Engineering Bureau
2100 Clarendon Boulevard, Suite 813
Arlington, Virginia 22201

Phone: (703) 228-7527

Email: kataktak@arlingtonva.us

AND

Dr. Sharon T. Lewis, LL.M, MPS, VCO, CPPB Purchasing Agent Arlington County, Virginia 2100 Clarendon Boulevard, Suite 500 Arlington, Virginia 22201

Phone: (703) 228-3294

Email: <a href="mailto:slewis1@arlingtonva.us">slewis1@arlingtonva.us</a>

### TO COUNTY MANAGER'S OFFICE (FOR PROJECT CLAIMS):

Mark Schwartz, County Manager Arlington County, Virginia 2100 Clarendon Boulevard, Suite 318 Arlington, Virginia 22201

### 53. NON-DISCRIMINATION NOTICE

Arlington County does not discriminate against faith-based organizations.

### 54. INSURANCE, PAYMENT AND PERFORMANCE BONDS

The Contractor shall maintain the required insurance coverage and payment and performance bonds as set forth in the Invitation to Bid through completion of the Contract, including all warranty and guarantee periods.

### 55. MATERIAL CHANGES

The Contractor shall notify Purchasing Agent within seven days of any material changes in its operation that relate to any matter attested regarding certifications on its bid form.

### 56. COUNTERPARTS

This Agreement may be executed in one or more counterparts and all of such counterparts shall together constitute one and the same instrument. Original signatures transmitted and received via facsimile or other electronic transmission (e.g., PDF or similar format) are true and valid signatures for all purposes hereunder and shall be effective as delivery of a manually executed original counterpart.

WITNESS these signatures:

THE COUNTY BOARD OF ARLINGTON COUNTY, VIRGINIA	SAGRES CONSTRUCTION CORPORATION				
AUTHORIZED SIGNATURE:  Sy Gradiew 27FC198F4A6D475	AUTHORIZED SIGNATURE:  DocuSigned by:  DEJLN DRIGHTEVAL  817420F7C4FC427				
NAME: <u>SY GEZACHEW</u>	NAME:DEJAN_DRAGACEVAC				

TITLE: PROCUREMENT OFFICER	TITLE: Vice President
DATE:	DATE:

## ARLINGTON VIRGINIA

FACILITIES & ENGINEERING DIVISION **ENVIRONMENTAL SERVICES** ENGINEER DEPARTMENT OF

ENGINEERING BUREAU
2100 CLARENDON BOULEVARD, SUITE 813
ARLINGTON, VA 22201
PHONE: 703.228.3629 FAX: 703.228.3606
WWW ARLINGTONVA.US

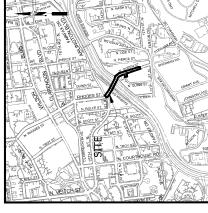
## CONTRACTOR TO BE DETERMINED

OWNER DES/OD/WSS

# LOCATION MAP

DEPARTMENT OF ENVIRONMENTAL SERVICES

A R L I NG TO N





DATE

REVISIONS

# CONSTRUCTION DRAWINGS FOR: FORT MYER HEIGHTS WATERMAIN IMPROVEMENT N. Rhodes Street - 14th St. N. to N. Quinn St.

PROJECT NUMBER: WI08

## GENERAL NOTES:

- THE COMPACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT OFFICER OF ANY DISCREP BETWEEN ACTUAL FIELD CONDITIONS AND THE APPROVED FLANS.
- PRESENDING TO SHALL RESPONDER FOR LINKS OF THE ROOM OF

- STORMWATER AND ENVIRONMENTAL PROTECTION

TREE PROTECTION

Sheet List Table

- CONTRACTOR SHALL NOTIFY THE PROJECT OFFICER AT LEAST 3 WORKING DAYS PRIOR TO DISTUN ANY EXISTING, OR INSTALLING ANY NEW, TRAFFIC SIGNAC, SIGNACE, OR OTHER TRAFFIC CONTROL DEVICES.

- I. A. THE COMMANCE OR SALE ARRIVED AS MALTINE MATERIAN EXPENSE OF SECURIOR AND ASSESSED AS A SECURIOR AS A SECURIOR OF A SECURIOR OF A SECURIOR AND ASSESSED AS A SECURIOR OF A SECURIOR OF A SECURIOR AS A SECURIOR AND A SECURIOR AS A SECURIO
  - 12. WHEN CONDITIONS WARRANT DUE TO TRAFFIC VOLUMES, PATTERNS, OR SPECIAL EVENTS, THE COUNTY MAY SUSPEND OR OTHERWISE DIRECT THE CONTRACTOR'S ACTIVITIES TO PROTECT THE PUBLIC AND OSK THE COUNTY'S TRANSPORTATION NETWORK.

# WATER DISTRIBUTION, STORM AND SANITARY SEWER SYSTEMS

- IN THE EVENT OF A WATER OR SEWER EMERGENCY, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COUNTY'S WATER CONTROL CENTER AT 703-228-6555 AND THE PROJECT OFFICER.
- THE CONTRACTOR SHALL CORDINATE ALL UTILITY SHUTDER, DISCONRIECTS, AND/OR ABANDONMEN WITH UTILITY OWNER AND PROJECT OFFICER AT LEAST I WEEK IN ADVANCE OF THE REQUIRED INTERNATION.

### FIRE DEPARTMENT NOTES:

	Sheet Number	Sheet Title
	C000,1	COVER
	C006.1	LEGEND
	C011,1	EXISTING CONDITIONS PLAN
	C031,1	EROSION & SEDIMENT CONTROL PLAN
	C032,1	EROSION AND SEDIMENT CONTROL NOTES
	C032,2	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
	C032,3	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - 2
	C045.1	GEOMETRIC CONTROL PLAN - 1
	C045,2	GEOMETRIC CONTROL PLAN - 2
	C051.1	WATERMAIN PLAN AND PROFILE - 1
	C051.2	WATERMAIN PLAN AND PROFILE - 2
	C051.3	WATERMAIN PLAN AND PROFILE - 3
	C052,1	GENERAL PLAN AND ELEVATION
	C052,2	FRAMING PLAN AND TRANSVERSE SECTION
	C052,3	WATERMAIN NOTES & DETAILS - 1
	C052.4	WATERMAIN NOTES & DETAILS - 2
	C052.5	WATERMAIN NOTES & DETAILS - 3
	C055.1	PAVING AND PAVENENT MARKING PLAN - 1
	C055.2	PAVING AND PAVEMENT MARKING PLAN - 2
	C121.1	MAINTENANCE OF TRAFFIC PLAN - 1
	C121.2	MAINTENANCE OF TRAFFIC PLAN - 2
	C121.3	MAINTENANCE OF TRAFFIC PLAN - 3
	C121.4	MAINTENANCE OF TRAFFIC PLAN - 4
	C121.5	MAINTENANCE OF TRAFFIC PLAN - 5
	C121.51	MAINTENANCE OF TRAFFIC PLAN - S.1
•	C121.6	MAINTENANCE OF TRAFFIC PLAN - 6
	C121.7	MAINTENANCE OF TRAFFIC PLAN - 7
	C121.8	MAINTENANCE OF TRAFFIC PLAN - 8
	C122.1	MAINTENANCE OF TRAFFIC NOTES & DETAILS - 1
	C122.2	MAINTENANCE OF TRAFFIC NOTES & DETAILS - 2
_	C122.3	MAINTENANCE OF TRAFFIC NOTES & DETAILS - 3

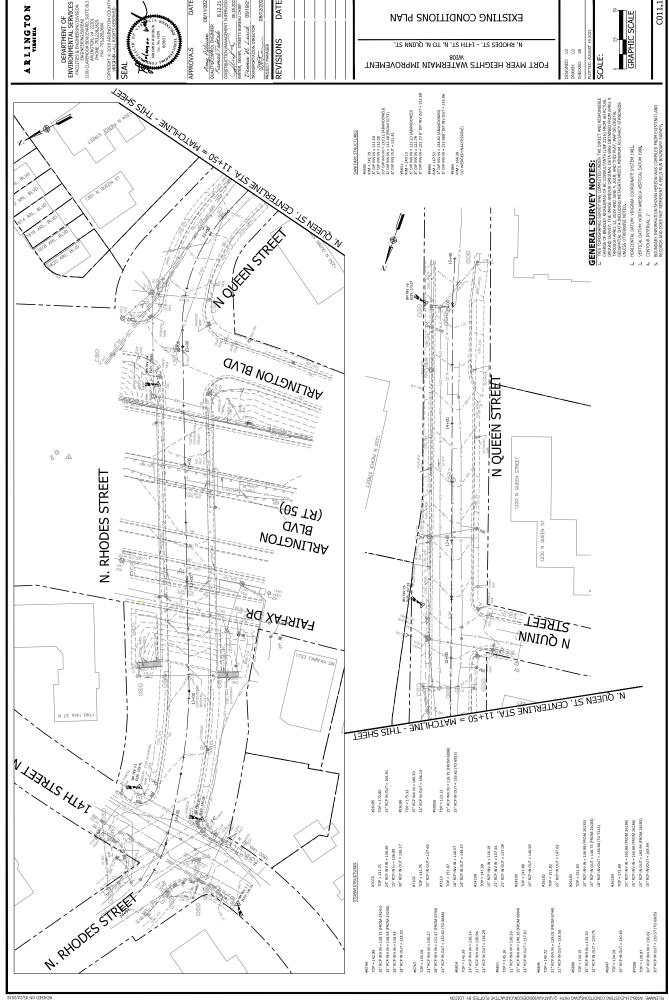
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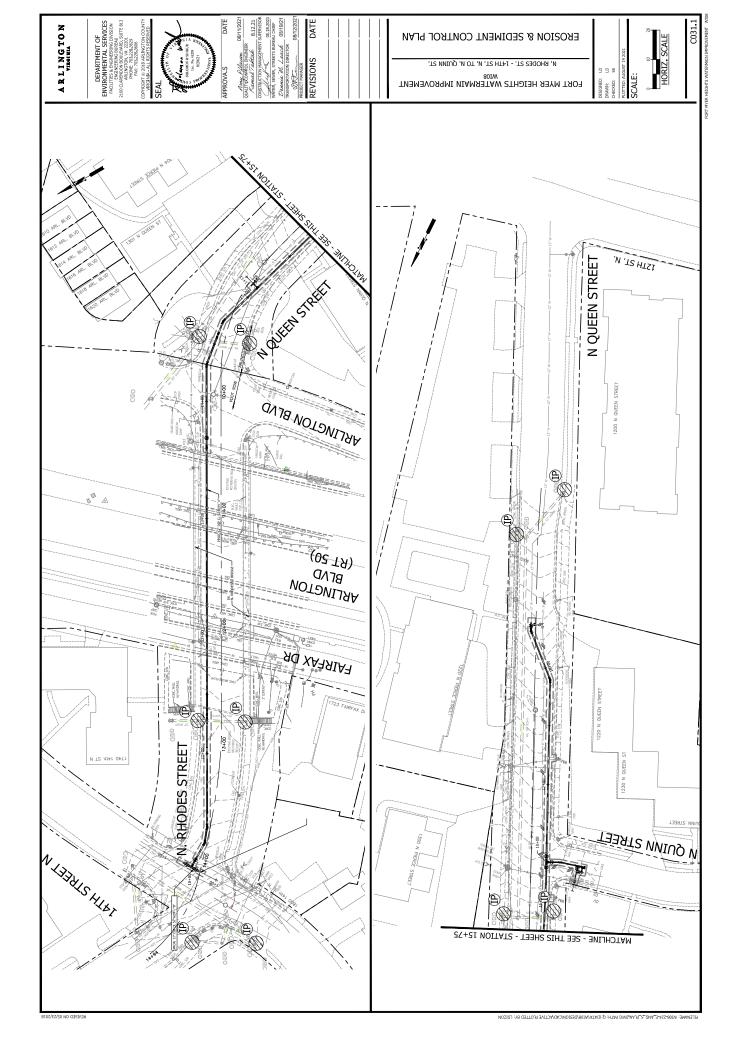
### LDA 21096 SWM# 21-0107

STREET CLASSIFICATION

### POSTED SPEED

(AS SHOWN)





# **EROSION AND SEDIMENT CONTROL NARRATIVE**

## PROJECT DESCRIPTION: THE PROPOSED 12" DUCTILE IRON PIPE.

## PAVED MINOR ARTERIAL WITH A SPEED LIMIT OF 25 MPH. THERE ARE STREET PARKING ALLOWED ON NATION BLVD SERVICE ROAD TO 12TH STREET N EXISTING SITE CONDITIONS: THE N PRODES STREET & N QUEEN STREET IS A P BOTH SIDES OF N QUEEN STREET BETWEEN ARLIN

ADJACENT PROPERTIES: THERE ARE COMMERCIAL/APARTMENT PROPERTIES ON BOTH SIDES OF N QUEEN STREET.

OFF-SITE AREAS:

### S FOR THIS PROJECT. CRITICAL AREAS:

PERMANENT STABILIZATION: whares distribed by constitution stall be stabilized with gass, milch os 500, see the proposed rans for additional information. EROSTON AND SEDIMENT CONTROL MEASURES: THE EROSTON AND SEDIMENT CONTROL MEASURES FOR THIS PROJECT AREA INC. REQUIRED OUTSIDE THE PROJECT LIMITS WHICH WHEN THE FROM DISTURBE

## STORMWATER RUNOFF CONSIDERATIONS:

### ON SITE (SEE SOILS MAP ON SHEET C032.1 FOR LOCATION) SOILS INFORMATION:

HYDROLOGIC GROUP: ERODABILITY:
VARIES VARIES DORTHENTS SOIL#: SOIL NAME:
12 URBAN LAND-UDOR

## FLOODPLAIN AND RESOURCE PROTECTION AREA (RPA):

## THEE ARE NO ROODPUAN OR RESOURCE PRUTELING MACHINE LINGUISTICS PROJECT PHASING EROSION & SEDIMENT CONTROL PROJECT PHASING

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OFFICER FOR A PERIMETER INSPECTION PRIOR TO CLEARING THE e. SEED AND MULCH ALL EARTHEN CONTROLS.

G CLEAR THE SITE TO THE LIMITS AS SHOWN ON THE CONSTRUCTION PLANS.

6. ONCE THE SITE IS BOUGHT TO MEAR EINAL GRADE, AND THE UTILITY CONSTRUCTION IS COMPLETE, COMMENCE CONSTRUCTION OF CURB 8. GUTTER, STREET, SIDEMALKS, AND OTHER IMPROVEMENTS. BEGIN UTILITY CONSTRUCTION, INSTALL ALL UTILITIES UNDERGROUND UTILITIES AND BEGIN SITE GRADING.
 INLET PROTECTION (IP) SHALL BE PROVIDED AT STORM DRAIN INLETS AS THEY ARE CONSTRUCTED.

A THE CONTROL MEASURES MAY NOT BE REMOVED UNTIL ALL OF THE DISTURBED AREAS HAVE BEEN STABILIZED AND ONLY AS APPROVED AND DIRECTED BY THE INSPECTOR.

# RUNOFF SHALL BE TREATED WITH SILT FENCE AND INLET PROTECTION PRIOR TO ENTERING MAJOR STORM SEWER SYSTEMS.

# **EROSION AND SEDIMENT CONTROL MEASURES**

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### 2. VEGETATIVE PRACTICES

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## **EROSION AND SEDIMENT CONTROL MANAGEMENT MEASURES** LANDSCAPE / TREE PRESERVATION NOTES

CONTACT THE ARLINGTON COUNTY ARBORIST TO SCHEDULE AN INSPECTION.

LAND CONSERVATION NOTES:

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S. ALL TENFORARY EARTH BERMS, DIVERSIONS AND SEDIMENT CONTROL DANS ARE TO BE MULCHED AND SEEDED FOR TENFORARY VEGETATIVE COVER INNEDIATELY AFTER GRADING, STRAW OR HAY MULCH IS REQUIRED. THE SAME APPLIES TO ALL SOIL STOCKRULES.

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UCTION AND PRIOR TO BOND RELEASE, ALL TEMPORARY SEDIMENT CONTROLS SHALL BE REMOVED S. AT THE COMPLETION OF ANY PROJECT CONSTRUCTION AND PRICK TO
AND ALL DENDIDED REES SHALL BE STABILIZED.
EROSION & SEDIMENT CONTROL PROGRAM:
EROSION & SEDIMENT CONTROL PROGRAM:

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WHERE AS LISTED SHEET AND PERIMETER CONTROL MEASURES WHICH INCLUDES SILT FENCE (SF),

A CONTRACTOS SHALL FALLUTE THE STEET OD DETENHEE ECTENINE CLT AND PLIL ARES, AND SHALL WORN THOSE AREAS TO MINIMETE THE USE OF HELVE EQUIMENT. CONTRACTOR SHALL BURND STONEED AREAS TO GAADE (ROUGH OR FILISHED) AND STABILIZE THOSE AREAS WITH TERPROSARY OR FERMANEN YESTERINGY THESE DISTURBED AREAS SHALL BE STABILIZED MYOR TO BEGLINKING WORK IN ANOTHER AREA. 3. ALL PRACTICES AND CONTROL DEJICES DESCRIBED HEREIN SHALL CONFORM TO THE CURRENT VIRGINIA EROSION AND SEDIMBNT CONTROL HANDBOOK (VESCH). IN ADDITION, THE CONTRACTOR SHALL TAKE THE FOLLOWING STEPS TO MINIMIZE THE VOLLUME OF SILT:

IN FILL AREAS SHALL BE COMPACTED COMPLETELY PRIOR TO THE END OF EACH WORK DAY. FILL SLOPE SUBFACES SHALL BE KEPT ROUGH TO REDUCE SEEFE TREADING OF THE SLOPES. CONTACTOR SHALL RE-DIRECT CONCENTRATED ROUGHF, BY EACH BEING OK OTHER DEVICES, AMOUND ACTIVETY DISTURBED MERGS. TO STAULTED OUTLIETS.

WESSIES TO CONTROL EXCESSON AND SILTATION SHALL BE RECOURDED PURSAUNT TO AND IN COMPLIANCE WITH CURRENT STATE AND LOCAL RECULTIONS. THE MORBANT FOR CONTRUBED IN THE CONSTRUCTOR PLANS AND FOR THE PAPERS SHALL IN NO WAY PREIDER THE CONTRUCTOR ON THE AGENT FOR ANY LEGAL RESPONSIBILITY WHICH MAY BE REQUIRED BY THE CODE OF WIRBING AND COMPLETS STOFTHE MARIFORN COURT. OTOB. CUT SLOPES SHALL BE PROTECTED FROM CONCENTRATED FLOW BY BERNS (ABOVE THE SLOPE) AND DIRECTED AROUND THE DISTURBED ARE
TO STABILIZED OUTLETS.

MENT CONTROL PRACTICES WILL BE CONSTRUCTED AN IRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK

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OFFICE RESOURCE OWNERSHIPS CATCHERS THE RESES CHER THAN INDUSTRES WHERE PASK INCLIDING, BY INTO THE DIMED TO CHESTIT RESOURCE WHET RESSSIT HE CONTRACTOS SHALL SHEEPEN A SIMPLEDERINF RESCION HOS SEMENT CONTROL PLANT OF THE DIMES FOR REGITEM AND APPROVAL BY THE PLAN APPROVING ANTIONING, BESCHOOL AND SEDIMENT CONTROL MESSINES RECESSION TO REPENT BROSON AND SEDIMENTATIONS OF PETRANIBED SYTE PLAN APPROVING AUTHORITY. 7. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MESSIRES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHEVED.

S. DIRBING DEWATERING OPERATIONS, WATER WILL BE FAUNED INTO AN APPROVED FILTERING SEMCE.

P. THE COMPANIES AREA, IMSPECT ALL BROAD AND SCHAMING THE FIFTCH TORRIO, NESSORIOUS ON CONTROL, DEPLOASE SALL BE NADOLUTED FROM THE PROPERTY FROM THE PROPERTY OF THE THE THE PROPERTY OF THE PROPER

11. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE THE STABILIZATION OR AFTER THE THE STABILIZATION OR AFTER THE STABILIZATION OR AFTER THE STABILIZATION OF AFTER THE AFTER THE AFTER THE STABILIZATION OF AFTER THE AF

## Net cated, EGONA BETWEEN CONTROL THE CATED OF SECURITIES OF THE REPLACEMENT ON AN UNITED SECURITIES OF THE REPLACEMENT OF THE CATED OF PRE-STORM EROSION & SEDIMENTATION CHECKLIST:

THE POLIDIMAS ACTIONS SHALL BE TAKEN ROLDE STOWN PRENTS WITH HREDICTID FRANT AND DE LAGGE VOLUME BAINFALL TO PRENENT SEDINENT. SUSDEMBESS FROM A CONSTRUCTION SITE. A THICKLE SUMMES THURDESCOME IS AN EXAMPLE OF A STOWN EVENT WITH PREDICTID HEAVE AND ON ARROW COLUMN.

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LESTIFFE COR

 CONTROLS SHALL BE INSTALLED TO PREVENT CONCENTRATED FLOW DOWN AN EXPOSED SLOPE. BERNS OR DIVERSION DIKES SHALL BE INSTALLED AT THE TOP OF CUT/EXPOSED SLOPES TO DIRECT STORM FLOW AROUND THE DISTURBED AREA. A EXPOSED SLOPES NOT AT THE FINAL STABILIZATION PHASE SHALL BE COVERED WITH TARPS, PLASTIC SHEETING, OR EROSION CONTROL MATTING. COVERING MATERIAL SHALL BE PROFERLY SECURED/ANCHORED.

c. PROSED SLOPES ATTHE THAM, STABILIZATION PHANE SHALL BE STABILIZED ISSNA SLOPE STABILIZATION PRACTICES SLICH AG SQUI.
STABILIZATION BLANNETS ON ANTITUM AG SPECIFIED IN THE WIRRIAM BEDISTON AND ESDIMENT CONTROL HANDBOOK (PSECH STD AS SPEC 3.36).
BLANNETS OR MATS NUST BE PROFERY SPECIFIED AND ANDORED TO THE SLOPE USING STARES, PRIS, OR STARES. A SEDDED AREAS SHALL BE CHECKED AND RESEEDED AS NECESSARY TO COVER EXPOSED SOIL. RECENTLY SEEDED AREAS SHALL BE PROTECTED BY STRAW OR SOIL STABILIZATION BLANKETS TO PREVENT SEEDING FROM BEING WASHED AWAY.

CONCEILE SOLI, MAD THER LOGGE MATERIALS L'ANT CAUBE WASHD AWN SAUL BE CORREN WITH A TARR, ASSITI GETTING, OR OTHER STANDARD, THE COREN MUST BE FROMEN SELVAND FER WASHD AND TO REPORT THE WASHD SELVEN SELVAND TO REPORT THE WASHD SAVE BE PROSENTED TOWN WITH THE WASHD THE STOCKNILL (ORWANDLL SIZE).

A INLET ROTECTION COMPIGUS SHALL BE INSPECTED TO BISSINE THEY ARE FUNCTIONING PROFERLY AND FLOODING WILL NOT OCCUR.
GLOGSED OR DAWAGED ONTHOLS NUST BE REPLACED IMMEDIATELY. BISSINE CONTROLS ALLOW FOR OVERFLOW/BIFNSS OF STORWMATER
RAINOF URBING SIGNIFICANT STORM PHYTIS. HESE PRE-STORM ACTIONS, ALL EROSION AND SEDIMENT CONTROL (ESC) MEASURES MUST BE CHECKED DAILY AND AFTER EACH

# DELLICION PREVENTION PLAN NOTES (STORMWATER MANUAL - SECTION 2.4) POLLICION PREVENTION PLAN NOTES (STORMWATER MANUAL - SECTION 2.4) 1. ONLY THE GLUDIAN GNACHOWANTER DISCHARGES ARE ALITHORIZED BY RELIGION COUNTY SNE PRINT, DUILSES THE STATE WATER SIGNIFICAN SOURCE FROLLIANST TO SINFACE WHITES. SIGNIFICAN SOURCE FOULTHANTS OF SINFACE WHITES.

, PRE CHAPTER, SO OFTER ROLLMCTON COUNTY CODE, IT SHALL BE UNLAWFUL POR MAY PERSON TO DISCHARGE DIRECTLY OR INDIRECTLY INTO THE THORS WERRE STSTEM OR STATE WATERS, ANY SIRSTANCE LIKELY, IN THE OFFICION OF THE COUNTY MANUACER, TO HAVE AN ADDERSE EFFECT ON THE STORM RAHRER SYSTEM OR STATE WATERS.

S EFLIENT FROM DEWATERING OPERATIONS SHALL RE FILTERED OR PASSED THROLGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER. THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY. 4. MATERIAL USED FOR BACKFILLING TRENCHES SHALL RE PROPERLY COMPACTED IN ORDER TO MINIMIZE BIOSION AND PROMOTE STABILIZATION. S. STABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.

10. AT THE COMPLETION OF THE CONSTRUCTION PROJECT AND PRIOR TO BOND RELEASE, ALL TEMPORARY SEDIMENT CONTROLS SHALL BE REMOVED AND ALL DENUDED AREAS SHALL BE STABILIZED. ARLINGTON COUNTY INSPECTOR TO APPROVE REMOVAL OF ALL TEMPORARY SILITATION MEASURES.

S. THE CONTINCTOR SHULL TAKE SPECIAL CARE TO RIBERIT MUD AND/OR OTHER DEBAIS FROM BEING BHTERED ONTO EGISTIAN SIMILBRIP FA. OR DOWNSTERN HATER WATE SOUTO OFFERT LEASE BEFORME CHAILDED BE CONSTRUCTION ACTUMITIES, THE CONTINCTORS SHULL BE RESPONSIBLE FOR LEAVING THE METELLE AUGUST.

A R L I NG TO N

DEPARTMENT OF
ENVIRONMENTAL SERVICES
HACILITIES & ENGINEERING DIVISION
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DATE APPROVALS

Amy Plaum 08/11/2021
QUALTYCOMFOL ENGINEER
Kamal Taktak 8.12.21
CONSTRUCTION MANAGEMENT SUPERVISOR WATER, SEWER, STREETS BUREAU CHIEF

DATE

08/12/202

Dennis W. Leach 08/19/21
TRANSPORTATION DIRECTOR

ONCO.

REVISIONS

EROSION & SEDIMENT CONTROL NOTES FORT MYER HEIGHTS WATERMAIN IMPROVEMENT

NORSOGNO UTILIY LINES SHALL ER INSTALLD IN ACCREMANCE WITH THE POLLOWING STMOMARS IN ADOITION TO OTHER APPLICABLE OUTERS. 2. DOWNER THAN LINES ARE FOR THE WINE THE PERSON AND THE PROBLEMS. 2. DOWNERS WHEN SALL BE FACED ON THE UPHILL SIZE OF THEORIES. UTILITY INSTALLATION:

S. AW DISTURBED AREA NOT COVERED BY NOTE #1. ABOVE AND PAVED, SODDED OR BUILT UPON BY NOVEMBER 1.ST, OR DISTURBED AFTER THAT DATE SHALL BE MULCHED WITH HAY OR STRAWN AT THE RATE OF 2 TONS PER ACRE AND OVER-SEEDED NO LATER THAN MAY 1.STH. 6. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH

MAINTENANCE PROGRAM:

HE FOLLOWING IS A ROCKAM OF MAINTBURGE FOR THE MECHANICAL COMPIGES SPECIFIED IN THIS WARGATHE AND ON THE FLAN:
THE ESPERITIONED FOR HEIGHEI REPRESENTING SHALL MEN SHALL CONTINCES AND INVENT.
STREATES AREALLY, ESEED AND MAINTENANCE AND SOCIAL BASES (SHA ANDLY MENSES, ESPECIALLY METRIC AND MAINTENANCE A , ALL SEDMENT TRAPRING DEVICES SHALL BE CLEARED OUT AT 50%, TRAP CAPACITY AND THE SEDMENT SHALL BE DISPOSED OF BY SPREADING ON THE SITE OR IF NOT SUITABLE FOR FILL, HAULING AWAY AND DEPOSITING AT AN ACCEPTABLE DUMP SITE.

A THE COMPLETON OF CONSTRUCTION AND PRICK TO BOND RELEASE, ALL TEMPORARY SEDINENT CONTROLS SHALL BE REMOVED AND ANY MEMBRING DENLIGHTS SHEEL SHEET SHEET SHALLED. CERTAIN DEVICES MAY BE REMOVED FROM TO CONSTRUCTION COMPLETION BUT ONLY WITH THE APPROVILE OF THE COUNTY RESECTION.

CONTROL, SEE COUNTY CONSTRUCTION

1. THE PROCESS TO CONTRICT STREAM TO A WAS HORK SHILL BE INFINED TO WEST THE PROTING ACCESS POINT TO THE STILL DURING ACCESS ATTENDED ACCESS ATTENDED ACCESS POINT TO THE STILL DURING ACCESS ATTENDED ACCESS

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### EROSION & SEDIMENT CONTROL NOTES

FORT MYER HEIGHTS WATERMAIN IMPROVEMENT W108

**®** 

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3,05

FILTER BOX

### A R L I NG TO N

DATE

ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES

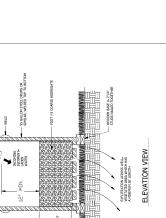
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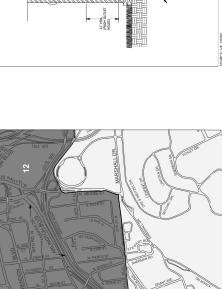
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ETAIL B: SUMP





ISOMETRIC

EROSION AND SEDIMENT CONTROL LEGEND

AS SHOWN

FORT MYER HEIGHTS WATERMAIN IMPROVEMENT W108

S - STIATAD DAM
EROSION & SEDIMENT CONTROL NOTES

Amy P. Haum 08/11/2021
QUALTYCONFROL ENGINEER APPROVALS

DATE

DATE

COLUMN PORTING PRINCE	
Kamal Taktak	8.12.21
CONSTRUCTION MANAGEMENT SUPERVISOR	SUPERVISOR
Sheef of	08.18.2021
WATER, SEWER, STREETS BUREAU CHIEF	AU CHIEF
Dennia M. Leach	08/19/21
TRANSPORTATION DIRECTOR	
The same	08/12/2021

Kamal Taktak CONSTRUCTION MANAGEMENT  LAN CANTER, SEWER, STREETS BURE  D'EMMEN, LASCH  TRANSPORTATION DIRECTOR  OFF	8.12.21	SUPERVISOR	08.18.2021	AU CHIEF	08/19/21		ACCUICATOR.
	Kamal Taktak	CONSTRUCTION MANAGEMENT SUPERVISOR	Soluter	WATER, SEWER, STREETS BUREAU CHIEF	Zi.	TRANSPORTATION DIRECTOR	

PROJECT MANAGER
REVISIONS

Arlington County SWPPP 12/2016

FILTER BAS PLAN VEW

ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES

AS SHOWN

SCALE:

7.0 Spill Prevention & Response

Most sylls can be cleaned up using a spill kit. Absorbentiol dry, sealable containers, plastik are suggested minimum spill resconse items that should by available at the project site.

Local Contacts
Aringkn County Fire & Police
DES Water, Sewar, Streets 24-Hour Emergen
Waterington Gas Emergency

Nights Holidays & Weekends VA Dept. of Emergency Menage 24 Hour Reporting Service

Spill it on site: Thes I No Locaton(s) of spill kit:

Safety Fence
(Skd. & Spec 3.01)
Stem Drain Inlet Protection

The Maryland Standard F-4 for a filter bug is provided as an acceptable option for use in Arlington Compy if starts wheter so are used as the layer under the filter bug. The use of micht, leaffwood compost, woodships or stard is not acceptable.

St. MAX. MULCH, LEJF /WOOD COMPOST, WOODCHIPS, SAND, OR STRAW BALES B IN MIN.

E.EVATION

LIB IN MAN.

COMMITMACIONA SPECIFICATIONS.

In Their Lag. Earth of their in the by Doublet HES WITA 5THP OF DRIAND BY THE PARTY OF THE

9" DIAMETER ENCSION CONTROL IMLET CLRB FILTER FLOW

STORMWATER POLLUTION PREVENTION PLAN

STORMWATER POLLUTION PREVENTION PLAN

Once to hearthy (housed neutral counts are careed of pair.) I seemed tells that one design of pair of experiment and pair of the pair of experiment and pair of

Construction Activity Operator (See Cover Page)

ASSURE DIRECT CONTACT WITH SURFACE OF GUTTER R.COWLINE

| 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100

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!!	Yes				on Plan
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STOFMWATER POLLUTION PREVENTION PLAN

Responsible Party Controlling Activity Operated (See Core Page of this SNEPPY)											
	Pollution Prevention Practice	(1)	(2)	(3)	(4)	(2)	(9)	6	(10)		
	Other Toxic Clemicals				×		×	×	×		×
	Trash, Debris, Solids	×	×	×	×	×	×	×	×		×
-	Bacteria & Vinses									×	
	essen & IIO		×		×		×	×			
	Pesticides & Herbicides						×				
8	(seset pue spipe) Hd			×	×		×	×		×	
Pollufamis	Heavy Metals			×	×		×				
_	stneirtuM	×			×	×	×			×	×
	Inemibe&	×	×		×	×	×				×
	Lively Present at your Project Sive?	N □ sex □	N □ No	⊠ Yes □ No	□ Yes ⊠ No	⊠ Yes □ No	□ Yes ⊠ No	□ Yes ⊠ No	⊠ Yes □ No	N □ ves □ No	□ Yes ⊠ No
	b	and	Suns						-		

Polutant-Generating Activity
Clearing, grading, excerating, and
un-stabilized areas

ring operations

Responsible Party

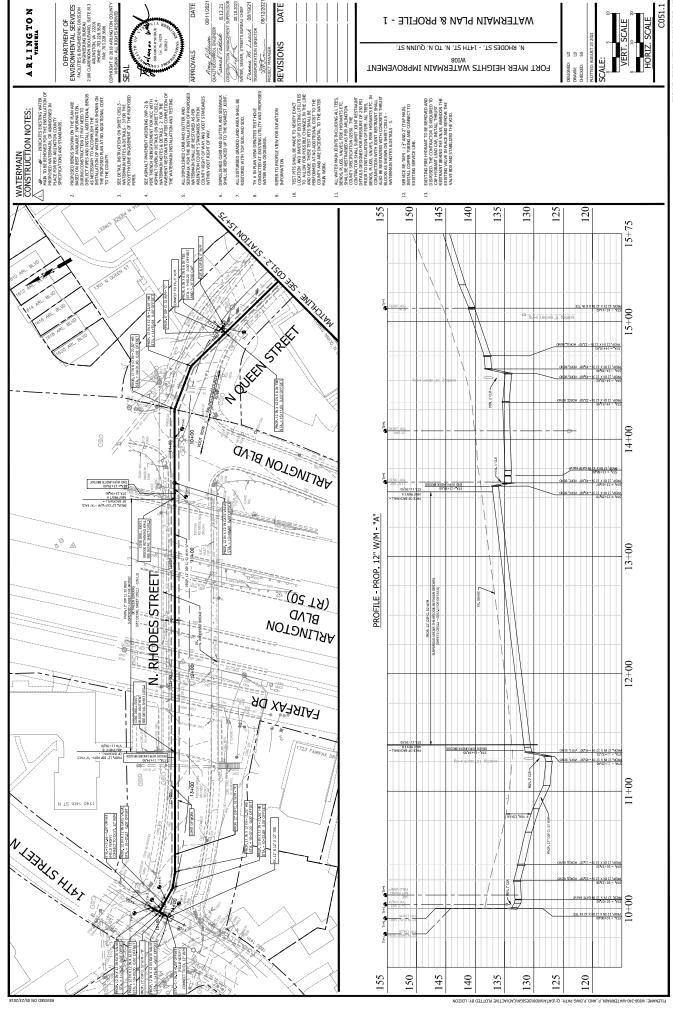
Erosion & Sediment Controls	
4.0	

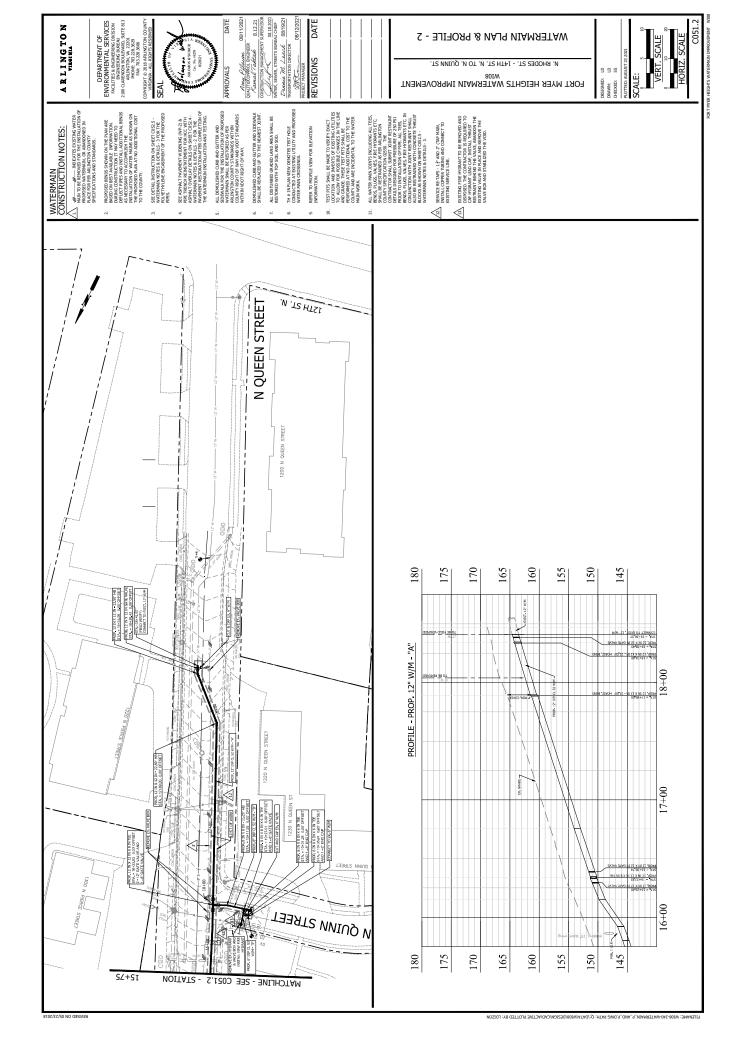
Embopaes will be given a "walk frough" of the site identifying areas of possible publisher and will be shown Enotion and Scholares and Scholares (correction Procises (continued in Sections 4.1 and 5.0 of the SWIMPP) has are applicable to their essigned (or Sufes, A nifesion meeting and "walk through" will be conducted on an exhaust. Debas.

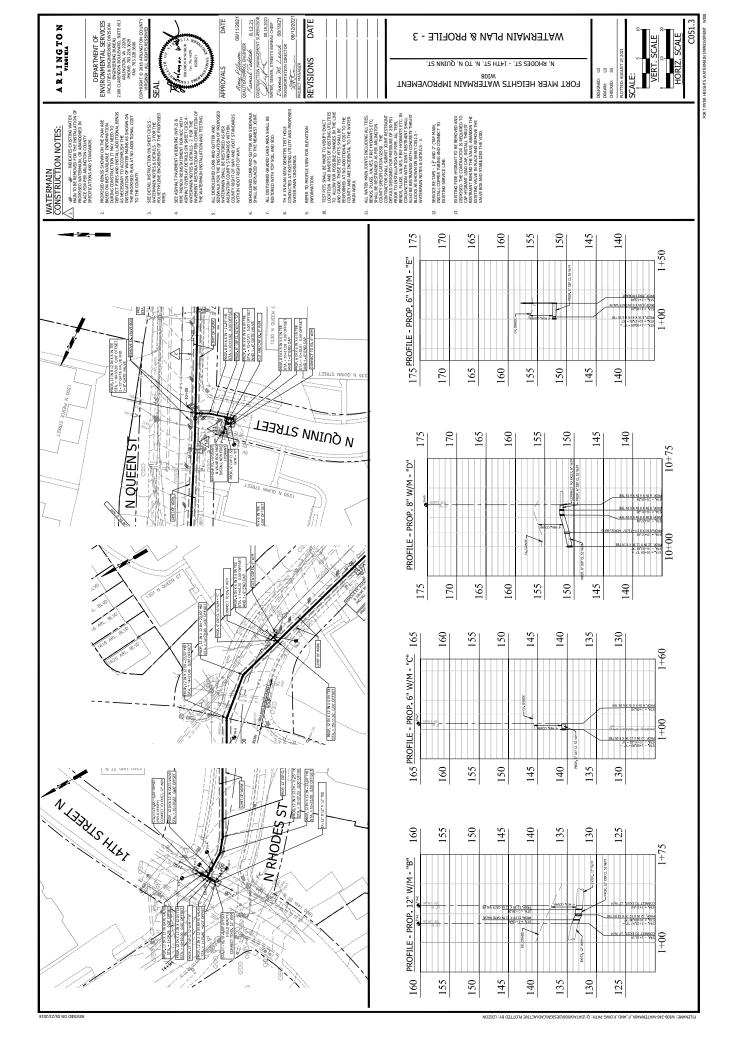
					00	,			
Estimated Removal Date				NA	NA.	NN	N.	NA	
Estimated Installation Date					As required				
Erosion & Sediment Control	Construction Entrance (Std. & Spec. 3.02)	Sit Fence (Std. & Spec. 3.05)	Culvert Inlet Protection (Std. & Spec. 3.08)	Outlet Protection (Std. & Spec. 3.18)	Temporary Seeding (Std. & Spec. 3.31)	Permanent Seeding (Std. & Spoc. 3.32)	Scdding (Std. & Spec. 3.33)	Mulching (Std. & Spec. 3.35)	Onder: Course
Select all that apply		⊠	0		0		Ø		

DATE A R L I NG TO N GRAPHIC SCALE GEOMETRIC CONTROL PLAN - 1 FORT MYER HEIGHTS WATERMAIN IMPROVEMENT W108 146,552 140,364 135,412 139,852 157,168 173.073 ELEV. 7,010,162,1221 11,887,734,5510 TRV #1 7,010,316,0953 11,887,313,4451 7,010,303,2831 | 11,887,389,6765 7,010,337,3192 11,887,438,9039 7,009,934,5340 11,887,898,4930 7,009,690,2378 11,887,979,5790 BENCHMARK TABLE NORTHING EASTING TRV #6 TRV #3 TRV #2 TRV #4 TRV #5 ARLINGTON BLVD PROP. 12" W/M - "B" € (RHODES ST-QUEEN ST) ARLINGTON BLVD (RT 50) PROP. 12" W/M "A" & AO XAARIAA PROP. 12" W/M - "A" € (RHODES ST-QUEEN ST) W TAJATS HIPL N. PHODES STREET

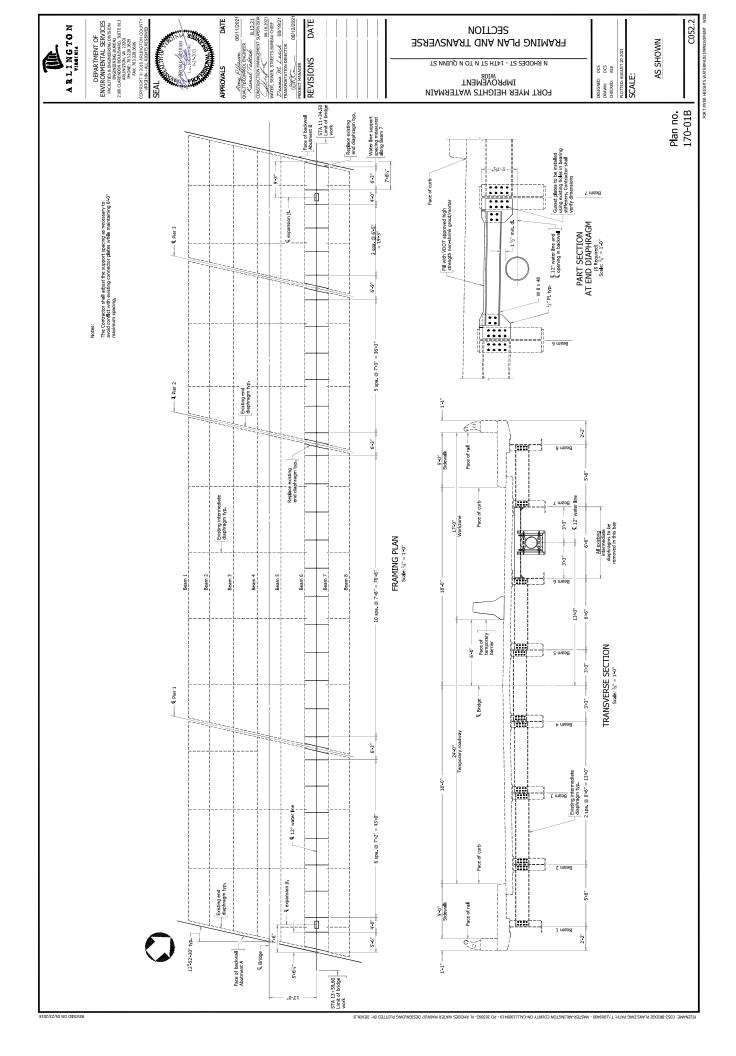
DEPARTMENT OF
ENVIRONMENTAL SERVICES
FACILITIES BEAUERISH CONSION
ZUROAMENTION DISABLE
PROPERTY IN THE PROPE DATE DATE A R L I NG TO N GRAPHIC SCALE GEOMETRIC CONTROL PLAN - 2 REVISIONS FORT MYER HEIGHTS WATERMAIN IMPROVEMENT W108 Northing, Easting (End) 146,552 140,364 135,412 139,852 157,168 173,073 ELEV. PROP 6" W/M - "E" € (QUINN ST) TRV #1 7,010,316.0953 11,887,313.4451 7,010,303,2831 | 11,887,389,6765 TRV #3 7,010,337,3192 11,887,438,9039 TRV #4 7,010,162.1221 11,887,734.5510 TRV #5 7,009,934.5340 11,887,898.4930 TRV #6 7,009,690.2378 11,887,979.5790 BENCHMARK TABLE NORTHING EASTING Distance STA STA (Sart) (End) v 21.70 1+00.00 1+21.70 7 Bearing Line # TRV #2 BM# PROP. 8" W/M = "D" & (QUINN ST) STA STA (Start) (End) Distance L19 \$71° 11' 10' W L20 \$81° 59' 52' W L21 N7° 58' 06' W Bearing Line # Northing, Easting (End) PROP 6" W/M - "C" € (QUEEN ST) Northing, Easting (Start) N QUEEN STREET STA STA (Start) (End) 1+00.00 1+13.23 Bearing Distance LI8 N 72° 41' 14" E 13.23' Line # PROP. 12" W/M - "A" € (RHODES ST-QUEEN ST) ALIGNMEN: ROP 12-1KCH WH - "A N QUINN STREET L10 5.18° 48' 50' E 41.96' L12 5.41° 17' 33' E 45.03' L51 5.18° 45' 02' E 13.00' L51 SZ+ST MATCHLINE - SEE C051,2 - STATION

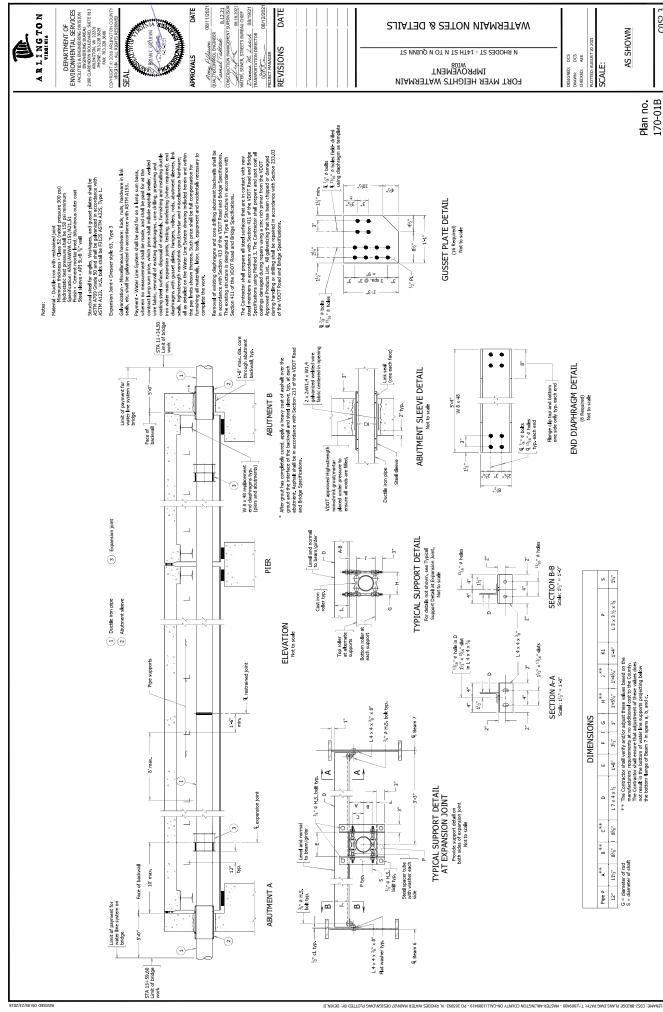






ARLINGTON J DEPARTMENT OF
ENVIRONMENTAL SERVICES
FACILITES & BEGINEENS DIVISION
2100 CLARENDE MENOR, SITE 813
MORE TO 2228 SERS
FOR TO 2228 SERS
FOR TO 2228 SERS
FOR TO 2228 SERS Stare 8.12.21 DATE DATE GENERAL PLAN AND ELEVATION  $\frac{1}{16}$ " = 1'-0" REVISIONS N RHODES ST - 14TH ST N TO N QUINN ST DESIGNED: DCS DRAWN: DCS CHECKED: AEE APPROVALS FORT MYER HEIGHTS WATERMAIN IMPROVEMENT WION Plan no. 170-01B Dimensions shown for the existing structure were developed from the existing plans and are approximate. All dimensions that relate to the existing structure shall be field verified. Bridge No. of existing bridge is 5004. Plan No. is 170-01 and 170-01A Design: AASHTO LRFD Bridge Design Specifications, 8th Edition 2017, and VDOT Modifications. Standards: Virginia Department of Transportation Road and Bridge Standards, 2016; including all current revisions. Span layout: 55'7" - 83'0" - 42'6" - 34'7" steel rolled Construction: Virginia Department of Transportation Bridge Specifications, 2020. Widths: 5'-0" sidewalk, 36'-0" roadway, 5'-0" sidewalk. Overall width 46'-0" face-to-face of rais. GENERAL NOTES: — € Prop. 12" DIP CL 52 W/M "A" STA 11+34.50 Limit of bridge work Face of backwall Abutment B Face of backwall Abutment B ABUTMENT B — E Pier 3 34'-7" Span d PIER 3 42'-6" Span c € Pier 2 PIER 2 DEVELOPED SECTION ALONG © PLAN -2.55% Arlington Blvd. (Rt 50) Westbound 83"-0" Span b € Pier 1 PIR 1 Arlington Blvd. (Rt 50) Eastbound 55'-7" Span a ABUTMENT A Face of backwall Abutment A Face of backwall Abutment A STA 13+59.60 Limit of bridge work





WATERMAIN NOTES & DETAILS

C052.3

FORT MYER HEIGHTS WATERMAIN IMPROVEMENT W108

APPROVALS

Not to Scale

Not to Scale

PROJECT MANAGER
REVISIONS

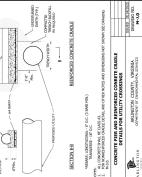
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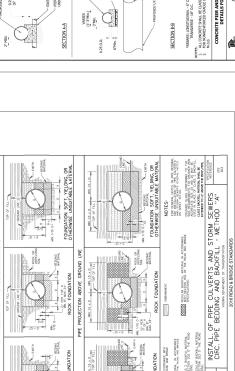
OF ENSTING UTILITY - 8' MIN. 18" MIN. 16" MIN. CONCRETE PIERS YERS TO BE BUILT ON UNDISTURBED EARTH

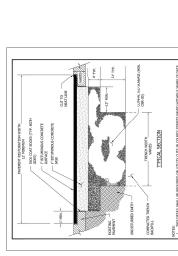


ROCK FOUNDATION

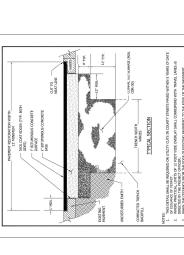
NORMAL EARTH FOUNDATION

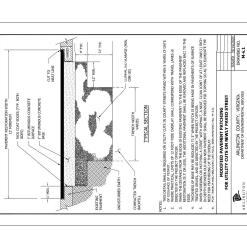
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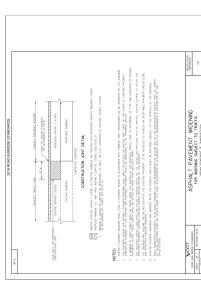


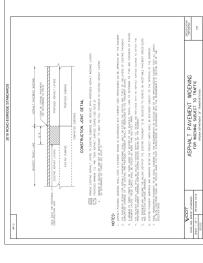


NORMAL EARTH FOUNDATION











ARLINGTON VIRGINIA





















08.18.2021	AU CHIEF	08/19/21		08/12/2021		
flut of	ATER, SEWER, STREETS BUREAU CHIEF	Dennie M. Leach	JANSPORTATION DIRECTOR	SPACE -	OJECT MANAGER	011011011

2016 ROAD & BRIDGE STANDARDS

NO PROJECTION OF PIPE ABOVE GROUND LINE

SCALE:

AS SHOWN

Virginia Department of Transportation NOVA District Materials Section

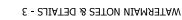
Existing perement saw cut to the full depth of asphall

- 445

nent for Hydrauic Cement Concrete Pavement with Asphalt Overlay

Detail: Pipe Trench Rein

Virginia Department of Transportation NOVA District Materials Section



FORT MYER HEIGHTS WATERMAIN IMPROVEMENT W108





AS SHOWN

### A R L I NG TO N

"-6" MIN. OR AS SHOWN ON.



APPROVALS

SECTION B-B

DATE

Amy Plaum 08/11/2021
QUALTYCONFROL ENGINEER
Kamal Taktak 8.17.71

DRAWING NO.

W-7.0

ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF DAVISON MENTAL SERVICES

ARLINGTON

ISSUED 9/14/2020 DRAV/ING NO. W-2.1

120Z

8.2021 TEF 19/21











ALI VALVES AND FIRE HYDRANT'S SHALL ES TRAPPED TO WARIL VALLES DIRECTED OTHERWISE PROVIDE VETTLOL OFFSETS OR BENDS. & REQUIRED TO SET HYDRANTS AT ROUPER GRADE. MAXIMING REY DEPTH OF FIRE HYDRANT IS & UNLESS, APPROVED OTHERWISE.

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THE PARTIE SUBJECTS FOR CONCERT BACKING SHALL BE LINGUISHED DARFINGTH, A READON MALLE ALTON STATE WHITE DARFINGTH SHALL BE LINGUISHED SHALL BENCH SHALL CONCERT SHALL BE LINGUISHED SHALL BENCH SHALL CONCERT SHALL BE LINGUISHED SHALL BENCH SHALL BE LINGUISHED SHALL BENCH SHALL BE SHALL BENCH SHALL BE SHALL BENCH SHALL

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ADHESNE TAPE

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FIGURE 3. Take up the slack in the tube to make a back over the top of the pipe. FIGURE 4. SECURE THE FOLD WITH POLYETHMLEN LOCATIONS ALONG THE PEPE BARREL.

FIGURE 2.

FIGURE 5. FIGURE 6. PLACE THE PIPE INTO THE T FIGURE 7. CONCRETE THRUST BLOCKS FOR HORIZONTAL BENDS ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES

FIGURE 10.

REMAR ALI RINS, TEARS, OR OTHER THE DAWAGE WITH SLITABLE ACHEDINE TAPE, DEVERSIONE THE SERVINGE.

RESPONSED.

FIGURE 8. PULL THE POLYETHYLENE TUBE END OF THE PREVIOUSLY MISTALLED PIPE OVER . NEW PIPE AND SECURE WITH THE TIESTRAP PROM THE PRECEDING PUPE BELL.

CONCRETE THRUST BLOCKS FOR TEES AND CAPS ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES

ARLINGTON

ISSUED 9/14/202 DRAWING NO. W-2.0

FIRE HYDRANT SETTING

_	Series S	98.18
_	WATER, SEWER, STREETS BUREAU CH	N CH
	Dennie M. Leach	08/1
_	TRANSPORTATION DIRECTOR	
	Section 1	08/12
	PROJECT MANAGER	
	CINCIDIVIDA	Ž



IREAU CHIE	08/19	-	08/12/2		DAT
ÁTER, SEWER, STREETS BUREAU CHIE	Dennia M. Leach	RANSPORTATION DIRECTOR	SPACE -	ROJECT MANAGER	REVISIONS

DAT		
EVISIONS		



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CHOTOL		





- TIE RODS

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ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICE CONCRETE THRUST BLOCKS FOR LOWER VERTICAL BENDS

PESPEATON ESTIMATE

CONCRETE CURB & GUTTER AND SIDEWALK ARLINGTON COUNTY, VIRGINIA

ISSUED ST14/2000 DRAWING NO. W~£.3

ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF THE SERVICE CONCRETE THRUST BLOCKS UPPER VERTICAL BENDS

ARLINGTO

DRAWING NO.

W-2.2

NOW AND SHEEK STANDARDS
REVISION BATE SHEEK STANDARDS
200.03

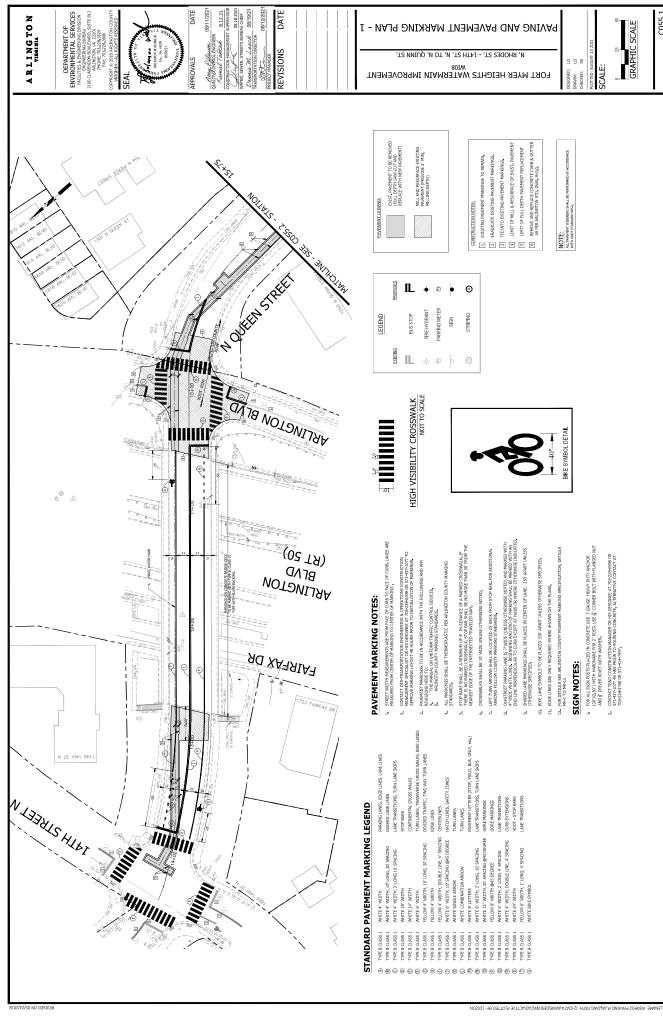
FARTANNE GOOGEL

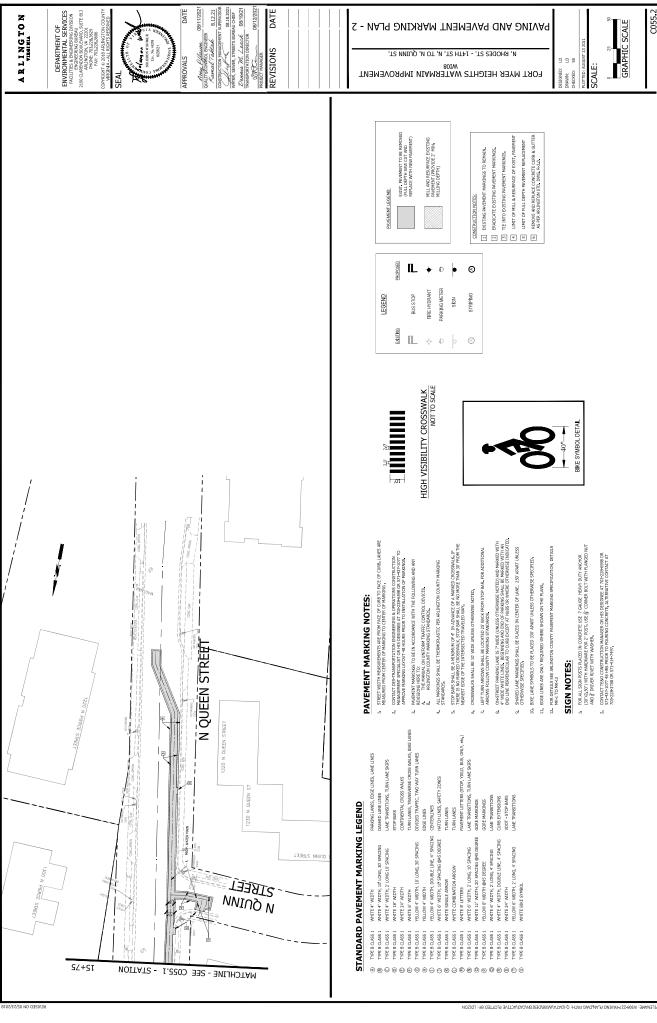
COMBINATION 5" CURB AND GUTTER

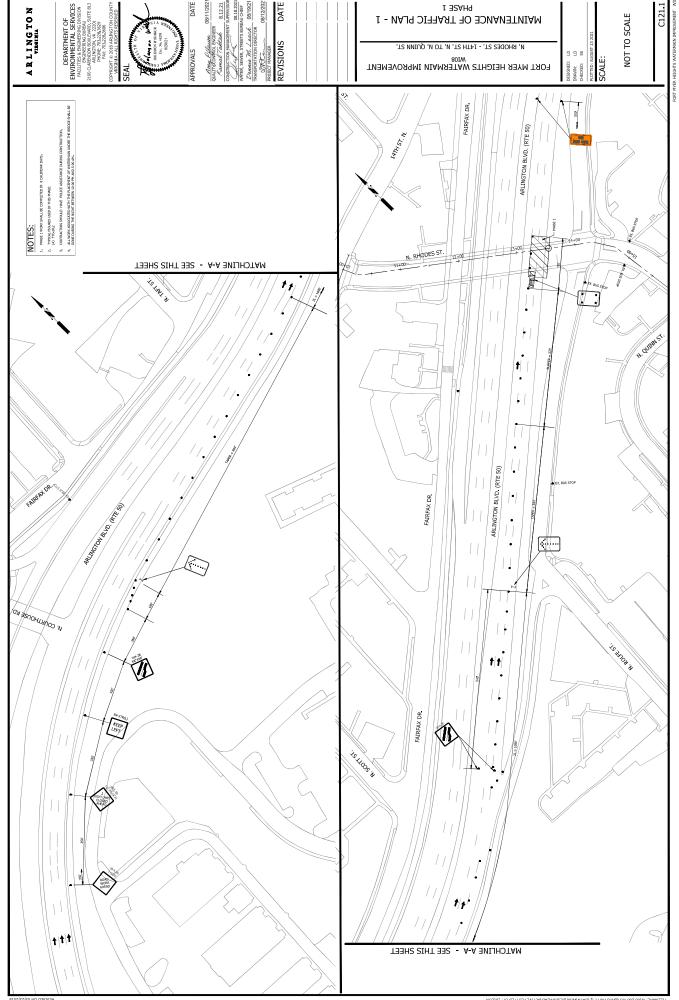
INSTALLATION INSTRUCTIONS:
TAPING OVER PAY STATE ARE EPSCASHER ALLOWS DREET TAPS TO BE NADE
THROUGH THE ARE AND DUTE THINKEN ENCASHERY, ELINEMATES FOTERTIA
BETHES TO EXPOSED ASE. TIE STRAPS ALLOW EASY, QUICK, SECLAE TIE DOWN OF POLYETHYLINE ENCAS BEIGIND THE BELL CONTOUR AND ON OVERLAPS AGAINST THE PIPE SURFIACE,

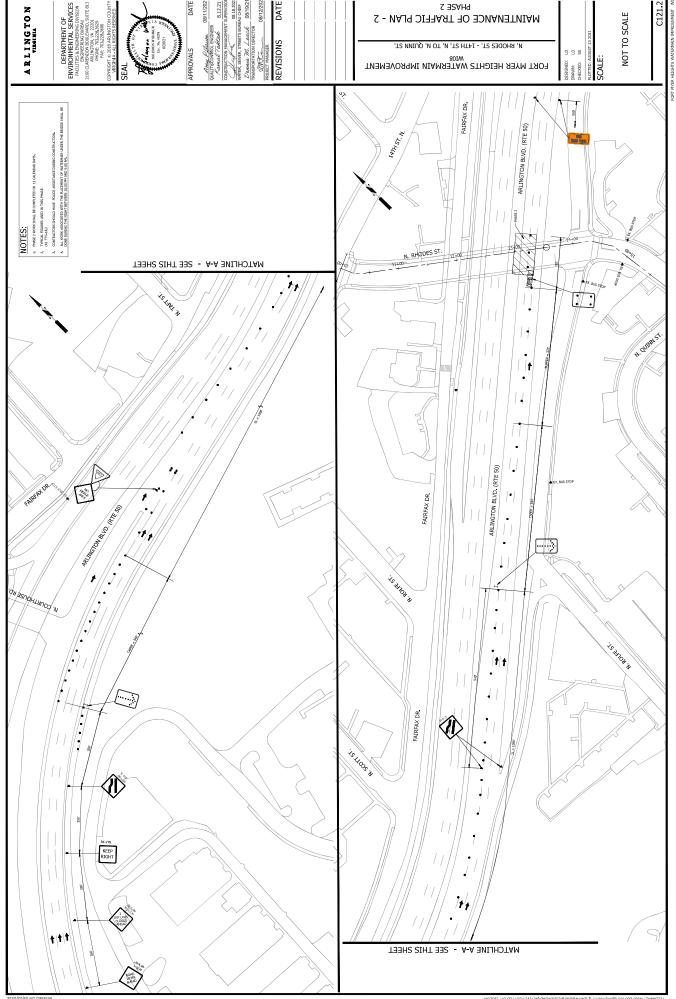


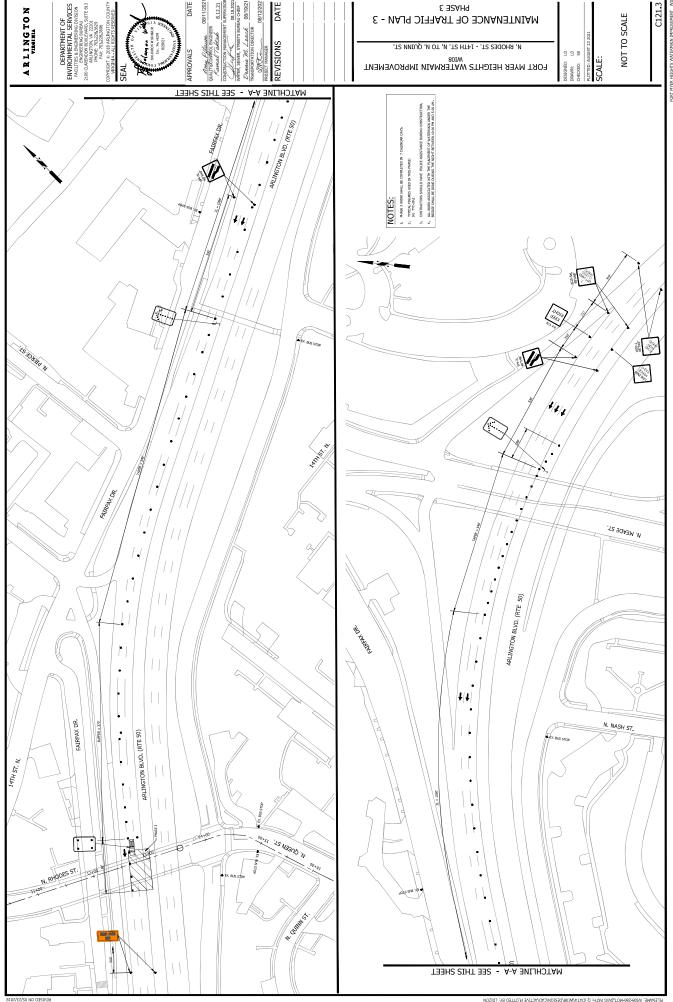
## POLYETHYLENE ENCASEMENT

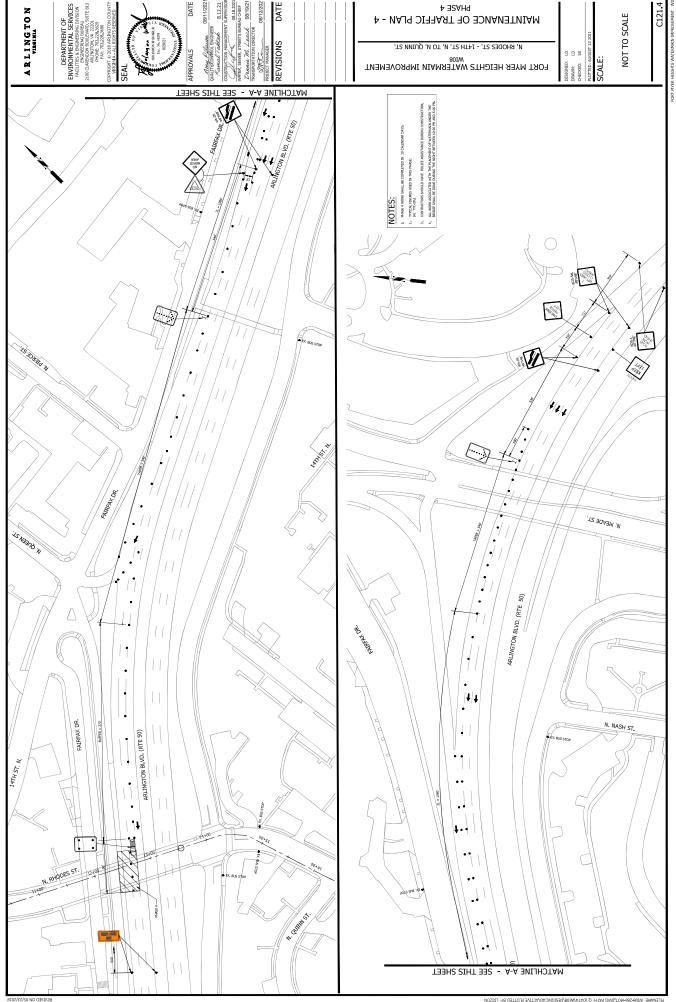


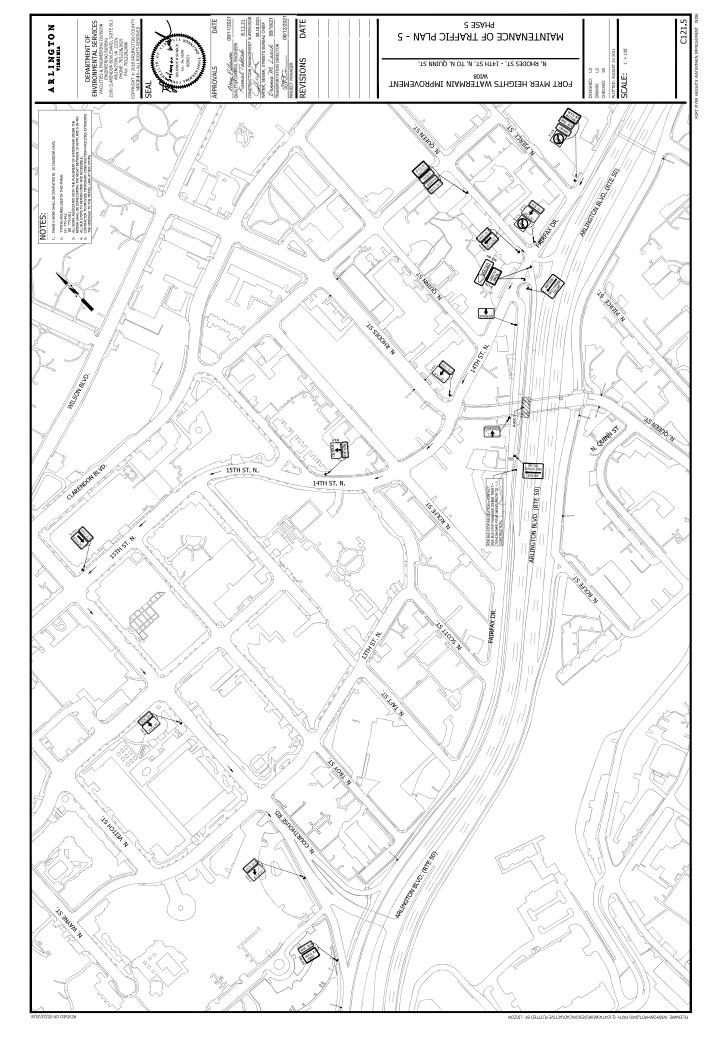


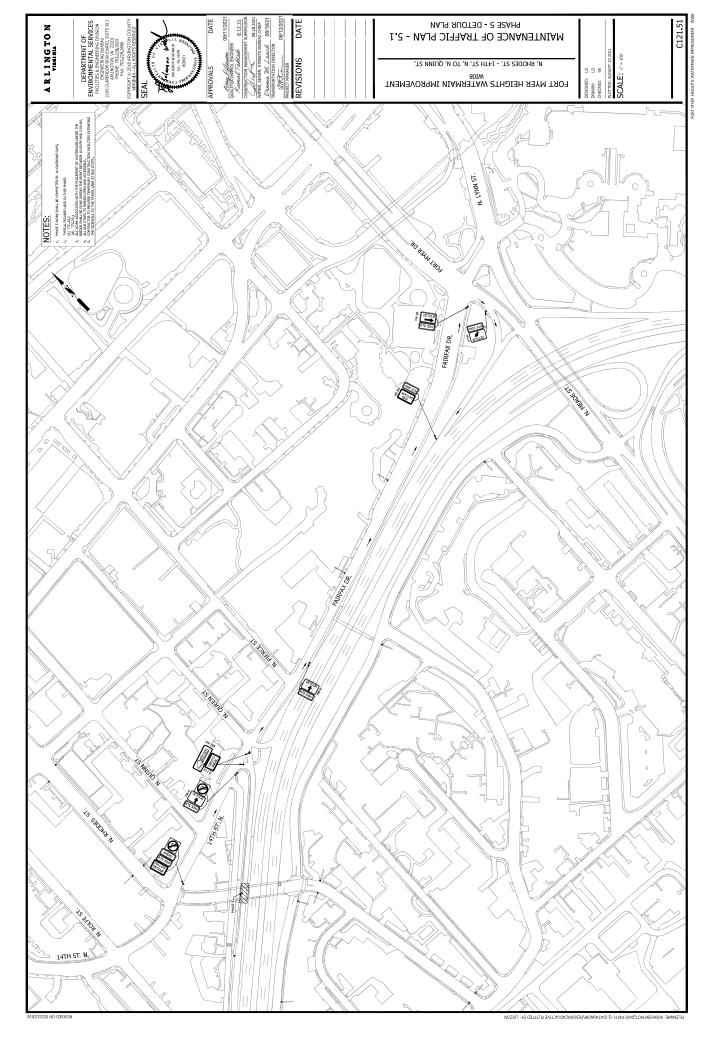


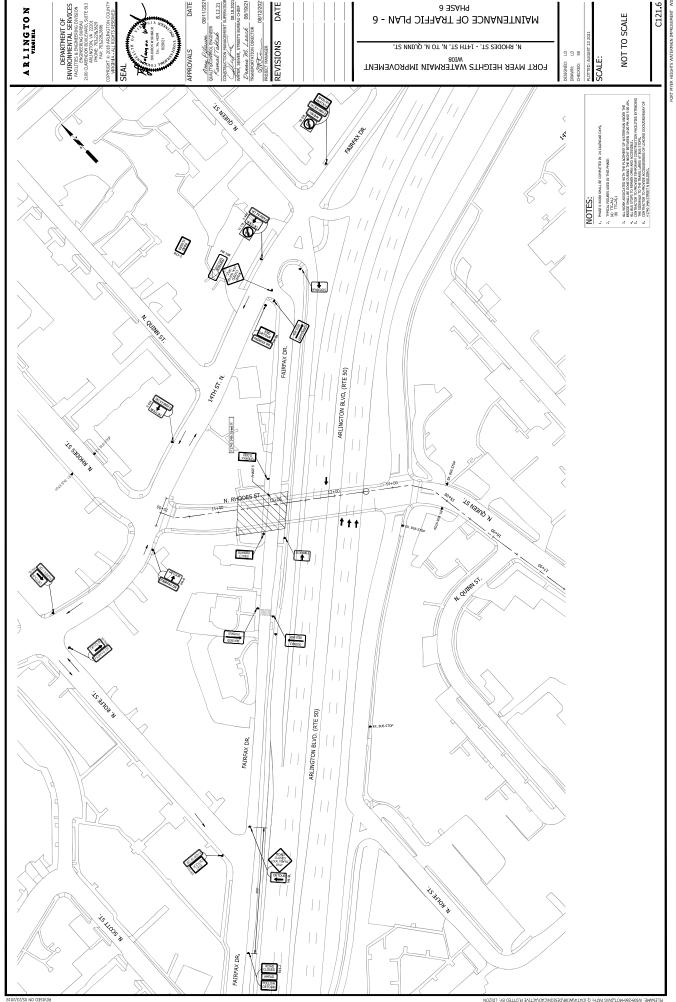


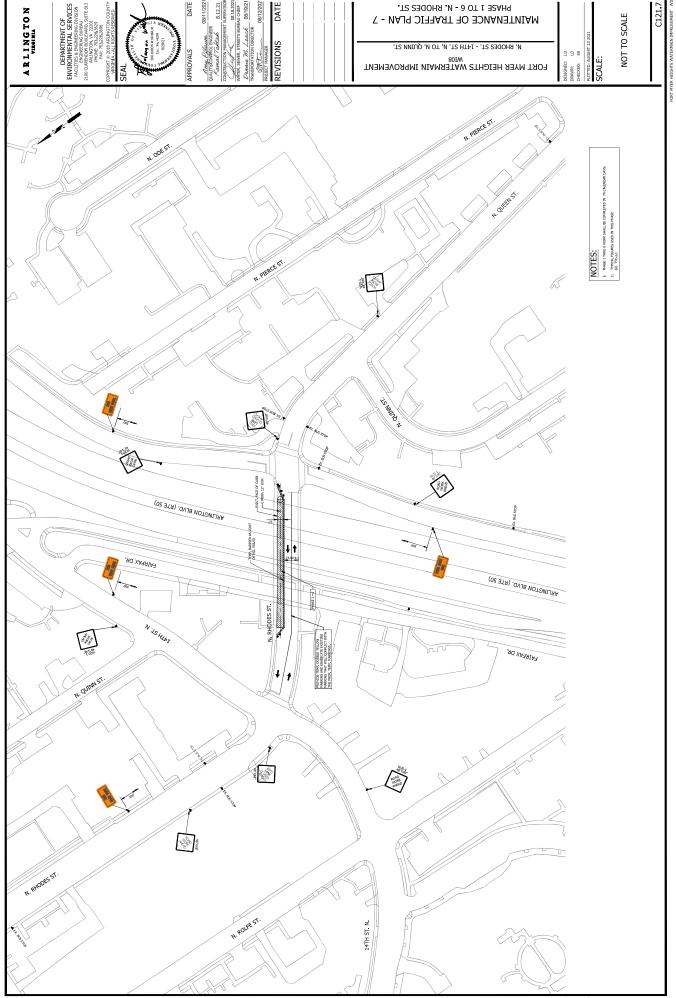


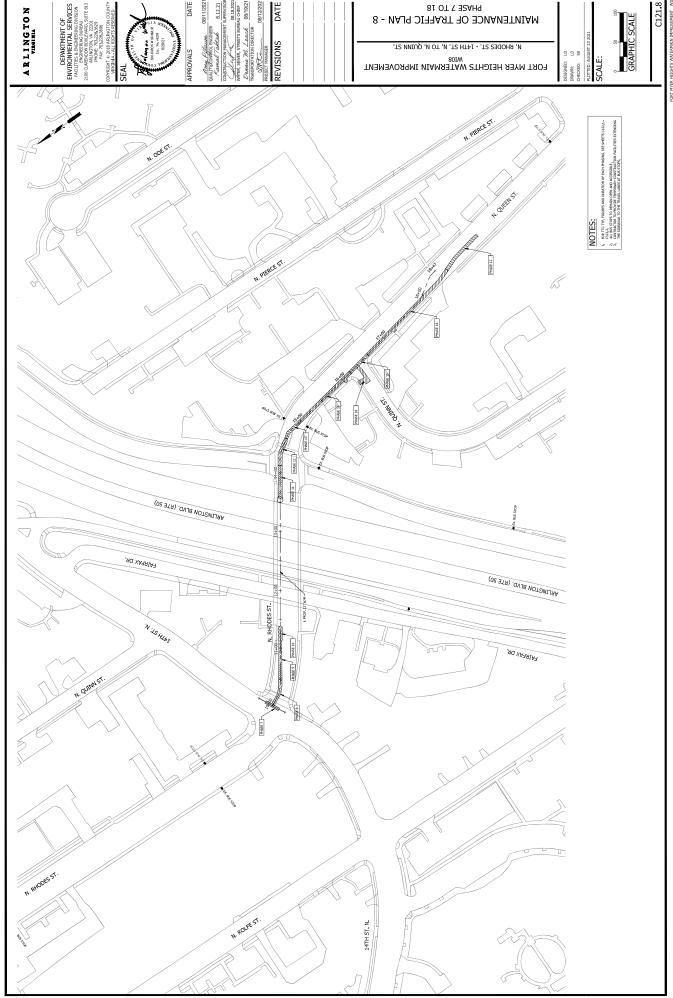












# FORT MYER HEIGHTS WATERMAIN IMPROVEMENT PROJECT N. RHODES ST. - FROM 14TH ST. N. TO N. QUINN ST.

# TRANSPORTATION MANAGEMENT PLAN (TMP)

## GENERAL TMP NOTES:

- PROSECT IS A TYPE AT YOR PRODECT. THIS PRODECT SENDED SENDED SENDED SENDED SENDED WERE DESIGNED TO THE POST WITH RESONS WITHOUTH INFORMATION OF A SENDED SENDED FOR A SENDED SENDE

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3		
THE STREET WAS	SUNDAY	*NOT ALLOWED
5	_	2
1001 1001	FRI TO SAT	10:00 PM TO 9:00 A
- Month of the second	MON, TO FRI.	MA 00 9 OT MA 00 11 MA 00 2 OT MA 00 11 MA 00 2 OT MA 05 1 MA 00 2 OT MA 05 1
Services MONG III	FRIDAY	MI DO S OT MA OF P
	MON, TO THU	9:30 AM TO 3:00 PM
5		

## 3. THE WORKING HOURS WITHIN ARLINGTON COUNTY RIGHT-OF-WAY ARE AS FOLLOWS:

MON, TO FRI. NIGHT WORK	SUNDAY
-------------------------	--------

- BEFORE AND AFTER WORKING HOURS, ALL TRAVEL LANES SHALL BE OPENED TO THE MOTORISTS.
- NO LANE CLOSHRIS WILL BE ALLOWED FROM NOON ON THE DAY BEFORE A HOLIDAY UNTIL NOON ON THE WORKDAY FOLLOWING THE HOLIDAY. HOLIDAYS INCLUDE ALL STATE AND FEBRICAL HOLIDAYS.
- MANTENACE OF TRAFFIC (WOT) AN INVESTIGATION TO CONSTRUCTION (SOC) WAS REVIEWED AND APPROXED BY THE AULINITION COUNTY TRANSPORTATION
  ENGINEERING AND OPERATION (TEAD) SILECTURE.
   MORENIAM PRINAMES ARE BRIGHT-FREED FOR THE REQUESTION WORK ALONG WOOT FROM.
  - THE CONTRACTOR SHALL COORDINATE WITH ARLINGTON COUNTY TRANSIT BUREAU (703-228-30). IF TRANSIT IS AFFECTED.
- 9. THE CONTRACTOR SHALL RETAIN PEDESTRIAN ACCESS TO THE BUS STOPS LOCATED WITHIN THE CONSTRUCTION ZONE FOR THE DURATION OF THE PROJECT
- 10. THE CONTRACTOR SHALL:
- A DESIGNATE A PERSON ASSIGNED TO THE PROJECT WHO WILL HAVE THE PRIVARY RESPONSIBILITY WITH SUFFICIBIT AUTHORITY, FOR INNEADMENT FOR THE PURATION OF THE PROJECT SAFETY AND MOBILITY ASPECTS OF THE PERMITT WORK. THIS PERSON SHALL CORROLLATE WITH THE MALINGTON COUNTY CONSTRUCTION MANAGER FOR THE DURATION OF THE PROJECT. B. BISHAR THAT PRESONABLASSIGNED TO THE PROPECT ARE TRAINED IN TRAFFIC CONTROL TO A LEVEL COMMENSIARTE WITH THEIR RESPONSIBILITIES IN ACCORDANCE WITH VIDOTS WORK ZONE TRAFFIC CONTROL TRAINING GLIDELINES.

  - C. PERFORM REJEWS OF THE CONSTRUCTION WEA.TO BISURE COMPLANCE WITH CONTRACT DOCUMENTS AT REGULARLY SCHEDULED INTERNALS AT THE DIRECTION OF THE BYGINED. CONTRACTORS SHALL MAINTAIN AN APPROVED COPY OF THE TEMPORARY TRAFFIC CONTRACTORS SHALL MAINTAIN AN APPROVED COPY OF THE TEMPORARY TRAFFIC CONTRACTORS SHALL MAINTAIN AN APPROVED COPY OF THE TEMPORARY TRAFFIC CONTRACT HE WORK SITE AT ALL TIMES.
    - 11. THIS THYMOTICOC PARTIS INTERNEDA SA GLUE, IT IS NOT TO BUNNIENTE REFET DETAIL WHICH MUST BE CONSIDERED IN THE CONSTRUCTION OF EACH MASS, BUT ONLY TO TO SHOW THE CONSTRUCTION OF EACH MASS, BUT ONLY TO TO SHOW THE CENTER THAT ARE A PROPERTY OF THE CONSTRUCTION OF EACH MASS. TO CENTER THAT ARE APPROVED THE A MESSED THE WAST RESIDENTED TO THE BURBLESS. THE WAST RESIDENTED TO THE BURBLESS AND A PROPERTY.
- 12. ALL ARBAS EXCAVATED BELOW THE EXISTING PAVENBAT SURFACE, AND VATHAN THE CLEAR ZONE AT THE CONCLUSION OF EACH WORNDAY, SHALL BE BACKFILLED UP TO EXISTING PAVENBAT OR NEW Y CONSTRUCTED PAVENET SURFACE FOR THE SAVETY AND PROTECTION OF VEHICLUAR TRAFFIC.
- 13. COMPACTOR SHALL BISJER FOSITIVE DRAITING FOR THE DIRATION OF THE PROJECT. CONTRACTOR SHALL ADD AW ADDITIONAL TEMPORARY WEASHES NECESSARY TO PACLITATE PROFER. POSITIVE DRAINAGE FOR THE DURATION OF CONSTRUCTION.
  - 14. EACH PHASE OF CONSTRUCTION SHALL BE COMPLETED PRIOR TO THE START OF THE NEXT PHASE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

    - PUBLIC COMMUNICATION PLAN
       THE CONTRACTOR SHALL BE RESPONSIBLE FOR:
- A NOTHYING THE VOOT PROJECT MANAGENEESDENCY ADMINISTRATOR OF SCHEDULED WORK PLATS AT LEAST 48 HOURS PROR TO BEGINNING EACH PHASE OF THE MAINTENANCE OF THE MAINTENANCE OF
- A NOTIFING THE LOCIT PROJECT MANUGER, RESIDENCY ADMINISTRATOR, REGIONAL OPERATION MANAGER AND THE PUBLIC AFFARES STAFF OF ANY UNISCHEDALED TRAFFIC DELAYS THAT THAT MAY OCCUB.
- C. INSTALLING PORTRAILE WARRAGE MESSAGE SIGNBOARDS (IMS) WITH PROJECT START DATE INFORMATION APPROXIMATELY SOD BEFORE AND AFTER THE PROJECT SITE LIMIT THREE (3) WEBSS ADVANCE RRIOR TO START OF ANY ROADWORK AND LANE GLOSINE.

## 16. TRANSPORTATION OPERATION PLANS THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND PROVIDING THE FOLLOWING:

- A NOTIFYING THE VOOT REGIONAL TRANSFROKTATION DERAKTIONS CENTER (TOC) 48 HOURS IN ADVANCE IN ORDER TO PLACE LANE CLOSURE INFORMATION ON THE S11 SYSTEM AND VA-TRAFFIC. FOR ADDITIONAL INFORMATION, PLEASE CALL CARLENE MC WHIRT AT 571-382-2078.
  - B. HANING THE LIST OF LOCAL EMERGENCY RESPONSE AGENCIES AVAILABLE AT THE WORK SITE AT ALL TIMES. C. IMMEDIATELY REPORTING ANY TRAFFIC INCIDENTS THAT MAY OCCUR IN THE WORK ZONE.
- NOTIFY THE PROJECT'S CONSTRUCTION MANAGER AND CORRESPONDING ENGINEER OF ANY INCIDENTS AND EXPECTED TRAFFIC DELAYS.
- WITHIN 24 HOURS OF ANY INCIDENTS WITHIN THE CONSTRUCTION WORK ZONE, A REVIEW OF THE TRAI TO REDUCE THE FREQUENCY AND SEVERITY OF ANY FUTURE ACCIDENTS.
- EMERGENCY CONTACTS DURING THE DURATION OF THE PROJECTS ARE THE FOLLOWING:

PEDESTRAMS SHALL NOT BE LED INTO CONFLICT WITH WORK SITE EQUIPMENT, OPERATIONS, AND/OR VEHICLES MOVING THROUGH OR AROUND THE WORK SITE.

WHEN RECESSARY, PEDESTRANS SHALL BE APPROPRIATELY DIRECTED WITH ADVANCED WARRING SIGNS FLACED AT INTERSECTIOR, TO GROSS TO THE OPPOSITE SIDE OF THE ROADWAY IN ORDER TO PREVENT CONFLICT WITH MIDBLOCK WORK STITES.

11. ADEQUATE PROVISIONS FOR PERSONS WITH DISABILITIES SHALL BE PROVIDED AT ALL TIMES PER ADA REQUIREMENTS.

- THE CONTRACTOR SHALL NOTIFY ARLINGTON COUNTY TRANSIT BUREAU, 703-228-3049, A MINIMUM OF 4
  WEEKS PRIOR TO COMMENCEMENT OF WORK, IF TRANSIT IS AFFECTED.
- 15. AT SIGNALIZED INTERSECTIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING VEHICLE DETECTION AT ALL THES DIMBANCE THE PROJECT, TRAFFE SENSAS SHALL BE RESTORED TO THEIR RESCONSTRUCTION STATE PRIOR TO THE COMMETTION OF THIS RODICT.
- THE CONTRACTOR SHALL COMELY WITH "RESTRICTED" WORKING HOURS AS DEFINED BY VIOT AND AS NOTED ON THE APPROVED FOUR TREATMENTHIN THE VOOT RIGHT OF TWAY. THE CONTRACTOR IS RESPONSIBLE FOR ASTREYMED ALL PREMIT REQUIREMENTS.
- MAINTENANCE OF TRAFFIC PLANS AND DETAILS SHOWN HERE SHALL BE POLLOMED BY THE CONTRACTOR DURING CONSTITUTION. SHOULD THE CONTRACTOR DURING CONSTITUTION. SHOULD THE CONTRACTOR DURING TO CONSTITUTION SHOULD BY SHOULD THE CONTRACTOR DURING TO CONSTITUTION SHOULD BY CONSTITUTION SHOULD BY THE CONTRACTOR THE CO
- 19. THE CONTRACTOR SHALL COVER ANY EXISTING SIGNS WHICH ARE NOT APPLICABLE OR ARE IN CONFLICT WITH THIS MOT PLAN.

IR. DIRECTIONAL ARROWS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS ARE FOR INFORMATION ONLY AND ARE NOT TO BE PLACED AS PAVEMENT MARKINGS.

- THE CONTRACTOR SHALL BADICATE ALL TEMPORARY PAVEMENT MARKINGS, INCLUDING TEMPORARY MARKED CROSSMALKS ONCE THE WORK AREA(S) ASSOCIATED WITH THE MARKINGS HAS BEEN COMPLETED. THE CONTRACTOR SHALL BRADICATE AND RE-STRIPE AS NECESSARY ANY EXISTING PAVENENT MARKINGS THAT ARE IN CONFLICT WITH OR DO NOT ALIGN WITH THE TEMPORARY PAVEMENT MARKINGS OR NEW TRAFFIC PATTERNS.
- 22. CONTRACTOR SHALL NOTIFY ARLINGTON COUNTY PUBLIC SCHOOLS TWO MEEKS PRIOR TO STARTING CONSTRUCTION. 23. ALL TEMPORARY AND BUS TRAVEL LANES SHALL BE 11" VIDE.

## FORT MYER HEIGHTS WATERMAIN IMPROVEMENT



MOT NOTES & DETAILS - 1









## DEPARTMENT OF ENVIRONMENTAL SERVICES PACILITIES & ENGINERING DIVISION 2100 CLARRETING BURSHIN TO STREET PROPERTY STREET PROPER DRUM GROUP 2 ILLUMINTAED FLASHING AMBER ARROW PANEL TYPE C AREA UNDER CONSTRUCTION TILUMINTAED FLASHING AMBER (CAUTION MODE) ARROW PANEL TYPE B OR C

1 ALL TIMES IN ACCORDANCE WITH SECTIONS 50.8.5.0 F THE ARLINGTON COUNTY FIRE PREDENTION CODE.
AT ALL TIMES IN ACCORDANCE WITH SECTIONS 50.8.5.4 AND 508.5.5.0 F THE ARLINGTON COUNTY FIRE PREDENTION CODE.

FIRE DEPARTMENT NOTES:

ACCESS TO BUILDINGS FOR PERFECTIONS SALLE REVIEW TO BE ACCESS FOOD CHIEF, BESTS FOR THE ACCESS FOOD CHIEF, BESTS FOR THE ACCESS FOOD CHIEF, BESTS FOR THE REPORT CLIKE OF COSTS FOOD CHIEF RESIDENCE OF THE ALL OF COSTS FOOD CHIEF RESIDENCE OF THE ALL OF COSTS FOOD CHIEF OF CHIEF ACCESS FOOD CHIEF REPORT OF COSTS FOOD CHIEF SOME REPORT OF CHIEF SOME REPORT OF CHIEF SOME SET ON THE ALL OF CHIEF OF CHIEF SOME SET OF CHIEF SOME SET OF CHIEF OF CHIEF SOME SET OF CHIEF SET OF CHIE

S. IN THE DEBY THAN EXTRINS RIBE CHARAPHENT CONCENTRO OS RIBE ARAWATIS ACCESS ROOMS FIRE ALREAS, MASTER CONSTRUCTOR A CHITALITY CONSTRUCTOR A CHITALITY CONSTRUCTOR A CHITALITY CONSTRUCTOR A CHITALITY CONSTRUCTOR. A CHITALITY CONSTRUCTOR A CHITALITY CONSTRUCTOR WAS A CHITALITY CONSTRUCTOR. THE PROPERTY FIRE EPRANTHENT FIRE CONSTRUCTORS ADJONS FIRE A PRAMATURA ACCESS RADIS FROM TO CENTRAL FIRE OSSITUATION.

MAINTENANCE OF TRAFFIC (MOT) GENERAL NOTES:

LEGEND:

A R L I NG TO N

CHANNELIZING DEVICE

TRAFFIC FLOW

ARROW PANEL SIGN

DATE

APPROVALS

١.

FLAGGER STATION

TYPE III BARRICADE

THE CONTRACTOR SHALL SUBNIT A DETAILED SCHEDULE WHICH INDICATES START AND FINISH DATES FOR EACH SEGMENT OF THE WORSH SCHEDULE SHALL INDICATE THE DIMONEL MED SCHEDULE SHALL INDICATE THE DIMONEL THE OR SCHEDULES CLOSINES. THE CONTRACTOR SHALL WOTTHY THE RODIET OFFICER A MINIMAIN OF B SUSINESS DAYS IN ADJANCE OF PROCEEDING TO THE NET WORSK SCHEM. 1. TRAFFE CORPIDE LOCKELS AND SETEM VERSIONS SAULT LOOPS VITH THE LOCKETS EXTENDED OF THE MISTAGE WAS LOCKED.

FROTESTOR MAJAN, WOTS GLIEBLINGS FOR TROPGART TAPATIC CONTROL, FEDERAL HIGHAN ADMINISTRATION ANALMS
ON UNIFORM TRAFFEC CONTROL DEVICES, AND TOTAL CONTROL, FEDERAL HIGHAN ADMINISTRATION ANALMS
CONTRICTION BRANNINGS, ADMINISTRATION FOR THE ROLLIEST PRICE.

THE CONTRACTOS SHALL WOTHY THE PROJECT OFFICES OF PARKING RESTRICTION NEEDS A MINIMUM OF 3 BUSINESS DAYS PRIOR TO COMMENDERED FOR VORKING BY OUR SEGMENT, COUNTY PROJECT OFFICES SHALL RESTRICT PARKING BY CONTRACTING SECTION. 70.2264–798.

Alma, Pleaum. 08/11/2021
QUALTYCORFOL BESINER
ALMA Taktak 812.21
CONSTRUCTON MANGEMENT SUPERVISOR
CLASS SEWEN, STREETS BUREAU CHER

PROPERTY

REVISIONS

DATE

Dennie W. Leach. 08/19/21
TRANSPORTATION DIRECTOR 08/12/202

> PHASE TABLE COMMENTS

> > PHASE# TTC#

DURING CONSTRUCTION, THE CONTRACTOR SHALL ETHER WAINTAIN APPROPRIATE SIGHT DISTANCE TO ALL TRAFFIC SIGNS OR PROVIDE FOR TEMPORARY SIGNAGE OR FLAGGERS TO GLIDE TRAFFIC THROUGH WORK ZOMES.

PORTABLE VARIABLE MESSAGE SIGNS WITH CLOSURE INFORMATION MUST BE INSTALLED AHEAD OF WORK AREA 3 WEEKS PRIOR TO CLOSURE.

THE CONTRACTOR SHALL MINISTER. THE DIRECTION OF MAKE ACCURACT DRIVERS TRANSLASS DOSTRIBINATIONS THE CONTRACTOR SHALL SHAPIT ACCRETED FOR THE PROPERTY OFFICES SHALL SHAPIT ACCRETED FOR THE PROPERTY OFFICES SHALL SHAPIT ACCRETED FOR THE PROPERTY OFFICES SHALL SHAPIT ACCORDING TO SHALL DRIVERS THE PROPERTY OWNERS AT LESSY THAT SHAPIT ACCORDING TO SHALL SHAPIT ACCORDING TO SHALL SHAPIT ACCORDING TO SHALL MINISTER SHAPIT SH whele double work flood achallengt with own artifaction couldn't request (System presents of source and the whele double where the whele double double double the properties of the properties o

The count of the county of the 10. PEDESTRIAN TRAFFIC SHALL BE SEPARATED FROM WORK ZONES WITH APPROPRIATE MEASURES IN ACCORDANCE WITH MUTCD.

ANY EXAMTIONS WHICH ARE SPECIFICALLY APPROVED BY THE RODIECT OFFICER TO REMAIN OPEN PACT MORNAL WORKING WHOSE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PROTECTED IN ACCORDANCE WITH THE VIRSINAL WORK AREA PROTECTION MANUAL AND AS APPROVED BY THE PRODECT OPFICER. PEDESTRIAN TRAFFIC SHALL BE MAINTAINED AT ALL TIMES, INCLUDING ACCESS TO BUS STOP SHELTERS, UNLESS OTHERWISE APPROVED IN THE PLANS.

ARLINGTON BLVD (RTE 50) / N. RHODES ST. AREA FAIRFAX DR. / N. RHODES ST. AREA

REVIEW OF WORKING DRAWINGS

Working drawings have been reviewed in accordance with Section 105.10 2016 VDOT Road & Bridge Specifications

SCALE:

C122.1

AS SHOWN

DEPARTMENT OF
ENVIRONMENTAL SERVICES
FALLITIES & RABINERING DIVISION
ENGINEERING BURSAN
ZUGO CLARRENNO BURSAN
ARUNGTON, W. ZZZZI
PHONE: ZUZZZZZZZZ
FAN. 777,2728,3605 Amy Pylaum 08/11/2021
QUALTYCONROL ENGINEER
Kamal Taktak 8.17.71 DATE Dennie W. Leach 08/19/21
TRANSPORTATION DIRECTOR C122.2 DATE A R L I NG TO N MOT NOTES & DETAILS - 2 AS SHOWN REVISIONS APPROVALS FORT MYER HEIGHTS WATERMAIN IMPROVEMENT Perriabe Temporary Runia Steps (FTRS) stall be used as seated it Section 67.99.

Perriabe Temporary Runia Steps (FTRS) stall be used as seated it Section 67.99.

The stall of Option:

12. Cases may be diffinitione: when using a pilot relief experiment or when the total read-tony width is, 20 feet and the active section of the control of the con issed when establishing the limits of the work zoneto insure maximum possible sight of the flagger station and ransition, based on the posted speed limit and at least on the witness in Table 6Hz. Generally speaking, wotorists should have c clear line is the values in Table 6Hz. with a signature of the control of t Page 6H-55 Guidance:

9. (The greene of orifles reaches the BE PREPARE) TO STOP (183-4) sgn then the signs, and I uses
FTRS should be reallosted at genere distance. 10. Photo management of a guident of the transition area and it is anticested when the transition area and it is anticested expenses resulting from the lane chosure might extend through the fullymey-and greated resemble grounds are a greated to the through any resulting counts, saying should be extended so than the remedition area prescribes the hybrid crossing (see Figure TTC-56 for additional information on highway-rell crossings). Standard:

11. At night, flagger stations shall be illuminated, except in emergencies (see Section 6E.88). Option

8. ASLOW(W21-VIO)sign<sup>2</sup> may be required in his area to give advans, warning of the by eleving approaching raffle prior to reaching the flagger station or occued traffic. Lane Closure on a Two-Lane Roadway Using Flaggers (Figure TTC-23.2) Typical Triffic Control

Lane Closure on a Two-Lant Roadway Using Flagger
(Figure TTC-23.2) 500 ± ROADWAY CENTERLINE PTRS SEE NOTE 4 & 14 SEE NOTE 4 FLAGGER STATION SEE NOTES 2, 3, 5 & 6 1: Revision 1 - 4/1/2015 2: Revision 2 - 9/1/2019 Standard: | Secondary | Separative | Secondary | Sec A dispersional primarile for the property of t Page 6H-45 Stendard.

1. Ottleide blighways harling a median vidert than 87, right and left sign assemblies shall be required.

Goldstoor.

2. Sing specing should be 1, 1007 1, 1007 for Listnick Access highways. For all other renderings, the sign period should be 1, 1007 1, 1007 for Listnick Access highways. For all other renderings, the sign period special beautiful at 50 applies or less. SEE NOTE 2
NOTE 2 When closing a lane, a PCMS should be used in advance of the first stars cannot be installed. Multi-Lane Closure Operation (Figure TTC-18.2) Typical Traffic Control
Multi-Lane Closure Operation
(Figure TTC-18.2)
NOTES 2: Revision 2 - 9/1/2019 3: Revision 21 -11/1/2020 Standard:

5. Veiler hazed warning ignah shall not be need instead of the vehicle's high-distensity amingframing basing of vestiring light. Veilet hazard semiling glouds an it would not supplience of
more recording light. Veilet hazard semiling glouds and we need to supplience
(If the work speec is the medium of a dividual lightway, an advance warning sign shall not be
placed on the left sole of the directional reality. The minimum distance between the sign and work vehicle should be 1809-1800 on Limited Acresshighenys, and on Indoor roadwares 500-800 where his posted speed limits greater than 45 mph, and
384-500 where the posted thereof limited is 45 mph or less. Deficies

2. The ROAD MOREA AMED INCRED, is aim must be replocad usifut other affrorquise sizes web, as the
2. SELICIZEN WORK (VSZ1-S) ang. The SELICIZENE WORK sign may be used for most subsects to
the bloodises.

3. The ROAD WORK ALCO Sign may be entailwhere the work speech, behind a benefit as core thank of
the behind several care sign and access to an effect of the size and sign and the object and
the resolution. The area west assets a series and charactering the size amount better for the size of the resolution of the size o EDGE OF PAVEMENT Work Beyond the Shoulder Operation (Figure TTC-1.1) Typical Traffic Control
Work Beyond the Shoulder Opera
(Figure TTC-1.1) SEE NOTE 1 : Revision 1 - 4/1/2015

DEPARTMENT OF
ENVIRONMENTAL SERVICES
FACILITIES & ENGINEERING DUVISION
ENGINEERING DUVISION
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AUTHORN, W. 22201
FORE TO SELVE SESSE
FORE TO SELVE SESS
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FORE TO SELVE Amy Plaum 08/11/2021
QUALTYCONTROL ENGINEER
Kamal Taktak 8.17.71 DATE C122.3 ARLINGTON MOT NOTES & DETAILS - 3 AS SHOWN REVISIONS FORT MYER HEIGHTS WATERMAIN IMPROVEMENT W108 2. A childs the formation devices from a...

2. A child the formation of devices from a...

4. Trapperary methods to considered for premise execution (reveal of serious devices).

4. Trapperary methods thank be considered for openium execution. Other devices, such as lace closure signing or postnian execution. Only the TTG devices that the premise are thosen. Other devices, such as lace closure signing or postnian execution. State and the premise are the serious execution of the angular execution. State and the serious execution of the serious execution of the serious execution.

5. State, such a NETE ORITIC (04.273) and NETP LETT (04.471), may be alread along a temporary allowing the premise and the serious execution.

7. State, such a NETE ORITIC (04.273) and NETP LETT (04.471), may be alread along a temporary allowing the property of the serious execution.

7. State, such a NETE ORITIC (04.273) and NETP LETT (04.471), may be alread along a temporary and the serious execution of the serious execution of the serious execution.

8. State and the NETE ORITIC (04.273) and NETP LETT (04.471), may be alread along a temporary and the serious execution.

9. State and the NETE ORITIC (04.273) and NETP LETT (04.471), may be alread along a temporary and the serious execution.

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1. State and the serious execution of the serious execution of the serious execution of the serious execution.

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8. All adreams, choures shall be chood with Type 3 Barricades. This SIDEWALK CLOSED (1899)

8. All adreams, Choures shall be chood with Type 3 Barricades. The KEEP RIGHT sign can cover the top rail of the Type 3 Barricade.

The KEEP RIGHT sign can cover the top rail of the Type 3 Barricade. Page 6H-79 Sidewalk Closure and Bypass Sidewalk Operation (Figure TTC-35.1) Typical Triffe Control
Sidewalk Closure and Bipass Sidewalk Operu
(Figure TTC-35.1)
NOTES Heart code 2: Revision 2 - 9/1/1019 Option: The Control of the Control o Page 6H-77 In arban arross, signs on an eight food Type 3 harrisade, should not cover more than half of the top in art's. On a four food Type 3 harrisade, a sign should not cover more than the top pail. When used also on a four food Type 3 harrisade, the ROJD CLOSED R11-1, sign on the ROJD CLOSED TO THE TRAFFIC R11-15 syst should be installed above the Type 3 harrisade? Typical Traffic Control

Street Closure Operation with Detour
(Figure TTC-34.2)

NOTES 1: Revision 1 - 4/1/2015 2: Revision 2 - 9/1/2019 Stander, Dr. emergency stantisms, van non-planned upersteins) (3.1) minutes en teos derordina, van stading 7 met 18 gebe in 18 julie 18 proprieted signal a shown absord be used for last explorement and fingging operations. For express or giving at shown absord be used for last explored posted limit is 63 mple or last, 507-509 in September 100-100 mple or last of the manual for last or last of the maximum and the maximum and the explored in the greater hand of 5 mple or manipul gives in the maximum of 2 minutes for last or manual posted are support as a figure results of a minute for last view modure; for each view or last of the post of the proper position is a minute for last view modure; for each view for a first for a minute for last view modure; for each view for a first for a minute for last view modure; for each view for a first for a minute and 2 minute for first view or for a first view of the post of the size of the size of the view of the post of the size of the view of the post of the size of the view of If room permits, a shadow vehicle with at least one rotating amber light or or socillating! light should be parked 80-120' in advance of the first work. Lane Closure Operation in an Intersection (Figure TTC-28.2) Typical Traffic Control
Laue Closure Operation in an Inters
(Figure TTC-28.2)
NOTES Standard:

4. Chamelzing device spacing shall be on 20° centers or less.

5. PTRS shall be used as noted in Section 6F.99. FOR SIGNLAYOUT
SEE BOTTOM RIGHT
AND NOTE 2
PTRS
SEE NOTE 5 If the work space extends across a crosswalk, the devices shown in Figure TTC-36. -50'-100' 1: Revision 1 - 4/1/2015 2: Revision 2 - 9/1/2019 2: Revision 2 - 9/1/2019

## **EXHIBIT C**

### **DEPARTMENT OF ENVIRONMENTAL SERVICES**

**Engineering Bureau** 

2100 Clarendon Boulevard, Suite 813, Arlington, VA 22201 TEL 703.228.6506 FAX 703.228.3606 www.arlingtonva.us

DATE:	1/14/2021	

Revised: 7/05/2019

THE UNDERSIGNED CERTIFIES THAT (CONTRACTOR NAME)Sagres Construction Corporation
IS CURRENTLY REGISTERED WITH THE VIRGINIA STATE BOARD OF CONTRACTORS AS REQUIRED BY THE CODE OF VIRGINIA. CERTIFICATE NUMBER 2705060249
Class A WAS ISSUED ON THE 31st DAY OF January, 2001. THE UNDERSIGNED FURTHER CERTIFIES THAT THE REGISTRATION FEE AND ALL RENEWAL FEES REQUIRED UNDER LAW HAVE BEEN PAID. THE CONTRACTOR AGREES TO FURNISH ALL NECESSARY LABOR, EQUIPMENT, MATERIALS, AND ALL THINGS NECESSARY TO PERFORM THE WORK AS SET FORTH IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. THE CONTRACTOR AGREES TO PERFORM RELATED WORK FOR THE FOLLOWING STIPULATED PRICES: (ALL PRICES INCLUDE PROVISION AND INSTALLATION).

PREPARED BY:	
<b>CHECKED BY:</b>	

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL
C1	GENERAL EARTH WORK				
MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL
02200-C1-00130	Aggregate, VDOT #21-A (Compacted in Place per VDOT standards & Specs)		CY	\$50.00	\$4,600.00
				SUBTOTAL	\$4,600.00

### C2 CONCRETE WORK

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL
	Canada Curk & Cutton Standard C 2 and				
	Concrete Curb & Gutter, Standard C-2 and C-2R (Arlington County Detail R-2.0),			\$150.00	\$3,600.00
02750-C2-00060	includes curb & gutter for aprons	24	LF		
	Concrete Sidewalk, 4" Thickness (Arlington				
02611-C2-00110	County Detail R-2.0)	16	SY	\$170.00	\$2,720.00
	Concrete Pier, Cradle, or Encasement				
03100-C2-00220	(Arlington County Detail M-7.0)	10	CY	\$500.00	\$5,000.00
				SUBTOTAL	\$11,320.00

## C3 ASPHALT WORK

**BIDDER** 

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL
	Asphalt Concrete, Planing or Milling (1/2" to				
02600-C3-00010	3" Depth)	605	SY	\$15.00	\$9,075.00
	Asphalt Concrete, Base Course (VDOT BM-				
02600-C3-00030	25.0A)	25	TON	\$250.00	\$6,250.00
	Asphalt Concrete, Surface Course (VDOT SM-				
02600-C3-00070	9.5D)	78	TON	\$250.00	\$19,500.00
	Remove and Replace 8" to 10" Reinforced				
	Concrete Paving VDOT Standards PR-3, PR-4,			\$150.00	\$18,450.00
03100-C3-00150	PR-5 and PR-6)	123	SY		
				SUBTOTAL	\$53,275.00

Sagres Construction Corp. Signature Signature

Page 1 of 4

## DEPARTMENT OF ENVIRONMENTAL SERVICES Engineering Bureau

2100 Clarendon Boulevard, Suite 813, Arlington, VA 22201 TEL 703.228.6506 FAX 703.228.3606 www.arlingtonva.us

DATE.	1/14/2021	

Revised: 7/05/2019

THE UNDERSIGNED CERTIFIES THAT (CONTRACTOR NAME)Sagres Construction Corporation
IS CURRENTLY REGISTERED WITH THE VIRGINIA STATE BOARD OF CONTRACTORS AS REQUIRED BY THE CODE OF VIRGINIA. CERTIFICATE NUMBER 2705060249
Class A WAS ISSUED ON THE 31st DAY OF January, 2001. THE UNDERSIGNED FURTHER CERTIFIES THAT THE REGISTRATION FEE AND ALL RENEWAL FEES REQUIRED UNDER LAW HAVE BEEN PAID. THE CONTRACTOR AGREES TO FURNISH ALL NECESSARY LABOR, EQUIPMENT, MATERIALS, AND ALL THINGS NECESSARY TO PERFORM THE WORK AS SET FORTH IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. THE CONTRACTOR AGREES TO PERFORM RELATED WORK FOR THE FOLLOWING STIPULATED PRICES: (ALL PRICES INCLUDE PROVISION AND INSTALLATION).

PREPARED BY:	
CHECKED BY:	

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL
C6	WATERMAIN WORK		*		
MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL
02550-C6-00140	12-Inch Gate Valve & Valve Box	7	EA	\$6,500.00	\$45,500.00
02550-C6-00150	8-Inch Gate Valve & Valve Box	1	EA	\$3,500.00	\$3,500.00
02550-C6-00160	6-Inch Gate Valve & Valve Box	1	EA	\$2,500.00	\$2,500.00
02550-C6-00190	Connect To Existing 12-Inch Water Main	3	EA	\$7,500.00	\$22,500.00
02550-C6-00210	Connect To Existing 6-Inch Water Main	2	EA	\$5,500.00	\$11,000.00
02550-C6-00250	Remove Existing Fire Hydrant	1	EA	\$1,500.00	\$1,500.00
02550-C6-00270	Install New Fire Hydrant	1	EA	\$6,900.00	\$6,900.00
02550-C6-00330	Cut & Cap 6-Inch Water Main	2	EA	\$2,500.00	\$5,000.00
02550-C6-00350	Remove Existing Valve Boxes	4	EA	\$1,250.00	\$5,000.00
02550-C6-00030	12-Inch Water Main, DIP CL-52, Upto 6' Deep	654	LF	\$490.00	\$320,460.00
02550-C6-00050	8-Inch Water Main, DIP CL-52, Upto 6' Deep		LF	\$390.00	\$13,260.00
02550-C6-00070	6-Inch Water Main, DIP CL-53, Upto 6' Deep		LF	\$390.00	\$7,800.00
02550-C6-00710	Service Re-Taps - 1 1/2-inch and 2-inch (TAP MAIN, INSTALL COPPER TUBING, CONNECT TO EXISTING SERVICE LINE, ABANDON CORPORATION COCK FROM EXISTING SERVICE LINE, BACKFILL, EXCAVATION & PAVEMENT RESTORATIONS)UP TO 10 FT.	2	EA	\$2,950.00	\$5,900.00
02550-C6-00720	Service Re-Taps - 1 1/2-inch and 2-inchPER ADDITIONAL LINEAR FOOT OVER 10 FT.	20	LF	\$125.00	\$2,500.00
UZ33U-C6-UU/ZU	Install 12" DIP CL-52 watermain through the	20	LL	Ψ120.00	Ψ2,300.00
	abutmentand under the deckof N. Rhodes				
	Street Bridge over Route 50 as detailed on				
	Sheet C052.1 through C052.3 of the				
02550-C6-SP001	watermain improvement plan	1	LS	\$380,000.00	\$380,000.00
02550-C6-SP002	Temporary Barrier	265		\$50.00	\$13,250.00
02000-C0-0F00Z		203		1 400.00	
				SUBTOTAL	\$846,570.00

BIDDER Sagres Construction Corp.

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## **DEPARTMENT OF ENVIRONMENTAL SERVICES Engineering Bureau** 2100 Clarendon Boulevard, Suite 813, Arlington, VA 22201

Revised: 7/05/2019

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PREPARED BY:  CHECKED BY:

MASTER ITEM # DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL
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C10	PAVEMENT MARKING AND SIGNAGE WORK						
MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL		
02900-C10-00040	Eighteen (18) Inch Transverse Markings	79	LF	\$9.00	\$711.00		
02900-C10-00050	Twenty Four (24) Inch Transverse Markings, Note: Used For Continental (Ladder) Crosswalk	808	LF	\$12.00	\$9,696.00		
02900-C10-00120	Six (6) Inch Longitudinal Solid Line	170	LF	\$3.00	\$510.00		
02900-C10-00160	Six (6) Inch Longitudinal Skip Line (Two (2) Foot Line/ Four (4) Foot Spacing), Note: Twelve (12) LF Consists of Two (2) LF of Marking and Four (4) LF of Space	100	LF	\$3.00	\$300.00		
02900-C10-00170	Twelve (12) Inch Yellow Longitudinal Centerline, Two - Four (4) Inch Yellow Lines with Four (4) Inch Separation	430	LF	\$3.50	\$1,505.00		
02900-C10-00290	Standard Bicycle Symbols (MUTCD, Chapter 9C, Figure 9C-3), "Bike Symbol", "Helmeted Bicyclist Symbol"	2	EA	\$390.00	\$780.00		
02900-C10-SP001	Type B, Class VI, Four (4) Inch Contrast	440	LF	\$4.00	\$1,760.00		
02900-C10-SP002	Type B, Class VI, Six (6) Inch Contrast	418	LF	\$5.00	\$2,090.00		
				SUBTOTAL	\$17 352 00		

Sagres Construction Corp. **BIDDER** 

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PREPARED BY:									
	CHECKED BY:								
MASTER ITEM #	DESCRIPTION	loty	LUNIO	TUNIT DOLCE	T-0-1				
WIND I EVI I EIVI #	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL				
EROSION AND SEDIMENT CONTROL WORK									
MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL				
01500-C13-10000	Temporary Erosion and Sediment Controls	_	LS	\$15,000.00	\$15,000.00				
				SUBTOTAL	\$15,000.00				
					+ )				
CONTRACT TOTAL (EXCLUDING PERCENTAGE ITEMS) \$948,117.00									
					<u>(Ψ940,117.00 )</u>				
PCT	PERCENTAGE LINE ITEMS								
MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL				
01000-C16-00010	Maintenance of Traffic (MOT)	NA	%	15.0%	\$142,217.55				
01000-C16-00030	Mobilization and De-Mobilization	NA	%	5%	\$47,405.85				
		Р	ERCENT	RCENTAGE LINE ITEMS SUBTOTAL \$189,623.40					
				TOTAL	· I \$1.137.740.40				

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**CONTRACT TOTAL:** \$1,137,740.40